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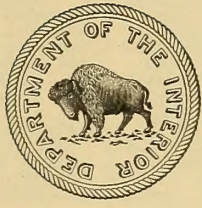
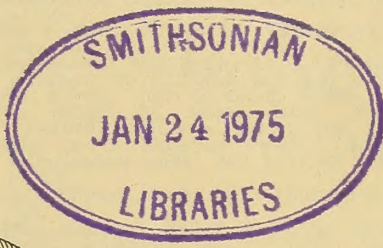
# INDEX OF PATENTS

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1921









# ALPHABETICAL LIST

## OF

# PATENTEES FOR THE YEAR 1921.

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- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-voltage disconnecting-switch. No. 1,385,977; Aug. 2; v. 289; p. 3.
- Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-breaker. No. 1,395,327; Nov. 1.
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- Aannerud, Sigurd A., Asker, near Christiania, and B. F. Halvorsen, assignors to Norsk Hydro-Elektrisk Kvaestofaktieselskab, Christiania, Norway. Impregnating composition and the production thereof. No. 1,397,197; Nov. 15.
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- Abbett, Clarence L., Milton, Ky. Receptacle for mail. No. 1,365,960; Jan. 18; v. 282; p. 454.
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- Abbot, Charles G., Washington, D. C. Self-propelled projectile. No. 1,380,172; May 31; v. 286; p. 978.
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- Aegg, Julius, assignor to Gordon Pen Company, West Hoboken, N. J. Stylographic pen. No. 1,379,603; May 31; v. 286; p. 871.
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- Abogado, Luis G., Mexico, Mexico. Heating liquids. No. 1,382,157; June 21; v. 287; p. 458.
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- Acheson, Edward G., Jr., Niagara Falls, N. Y. Preparing graphitized vulcanized fiber. No. 1,379,156; May 24; v. 286; p. 712.
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- Ackerland, Joseph, assignor to G. M. Seemann, Minneapolis, Minn. Windshield-shade. No. 1,378,510; May 17; v. 286; p. 516.
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- Addis, Charles N., Downers Grove, assignor of one-half to J. Skworchinsky, Chicago, Ill. Lock for motor-driven vehicles. No. 1,400,507; Dec. 20.
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- Addressograph Company. (See Hubbard, Henry E., assignor.)
- Adell, Claude, Cleveland, Ohio, assignor, by mesne assignments, to Kingsbury Electroflush Co., Inc., New York, N. Y. Waste-basin and flushing means therefor. No. 1,366,761; Jan. 25; v. 282; p. 656.
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- Adelson, Samuel L., New York, N. Y. Incandescent-lamp lock. No. 1,389,112; Aug. 30; v. 289; p. 859.
- Adelsperger, Mary B., Chicago, Ill. Coloring intaglios. No. 1,395,379; Nov. 1.
- Adenot, Marius, Caluire, France, assignor to Société Lyonnaise D'Industrie Mecanique. Compressed-air mechanism for motor-cars and the like. No. 1,398,355; Nov. 29.
- Aderer, Hugo, East Orange, N. J., assignor to J. F. Jelenko & Co., New York, N. Y. Lingual bar. No. 1,371,537; Mar. 15; v. 284; p. 450.
- Aderer, Hugo, East Orange, N. J., assignor to J. F. Jelenko & Co., New York, N. Y. Palatal bar. No. 1,392,612; Oct. 4.
- Adix, Dr. H. V. (See Pesznecker, Stephen P., assignor.)
- Adkins, Thomas E., Canton, Ohio. Grease-cup. No. 1,373,991; Apr. 5; v. 285; p. 120.
- Adkins, William H., Kansas City, Kans. Automatic train-stopping, telephonic, and block-signal system. No. 1,400,201; Dec. 13.
- Adkins, Willie C. (See Ternes, F. J., and Adkins.)
- Adler, Charles, Jr., Baltimore, Md. Roadway-crossing signal. No. 1,394,264; Oct. 18.
- Adler, Emanuel B., and J., Pittsburgh, Pa. Washing-machine. No. 1,401,026; Dec. 20.
- Adler, Frank H., Minneapolis, Minn. Windshield-cleaning composition. No. 1,378,931; May 24; v. 286; p. 670.
- Adler, Jerome. (See Adler, Emanuel B. and J.)
- Adler, Louis M., New Orleans, La. Piano-bench. No. 1,401,027; Dec. 20.
- Adler, Marcus, Chicago, Ill. Time-card, pay-envelope, and daily-production record. No. 1,392,613; Oct. 4.
- Adler, Philip, assignor of one-half to Chris Uebersetzg, Madison, Wis. Aeroplane driving mechanism. No. 1,389,471; Aug. 30; v. 289; p. 931.
- Adolfson, George S., Philadelphia, Pa. Pencil-clip. No. 1,365,439; Jan. 11; v. 282; p. 312.
- Adolfson, George S., Philadelphia, Pa. Pencil-clip. No. 1,401,124; Dec. 27.
- Adolphus Auto Rent Company. (See Bower, James R., assignor.)
- Adrian Carburetor Company. (See Gibford, Edward B., assignor.)
- Adrian, Frank L., Mattoon, Ill. Engine-piston. No. 1,382,876; June 28; v. 287; p. 649.
- Adriance Machine Works. (See Calleson, Amos, assignor.)
- Adsit, Charles G. (See King, Guy, assignor.)
- Adsit, Charles G., Atlanta, Ga. Distilling apparatus. No. 1,386,484; Aug. 2; v. 289; p. 101.
- Adsit, Frank W., and B. B. Bienhoff, Minneapolis, Minn. Motor-speed control. No. 1,367,679; Feb. 8; v. 283; p. 215.
- Adsit, William H., assignor of one-half to D. W. Tomlinson, Jr., Batavia, N. Y. Change-speed-gear operating means for motor-vehicles. No. 1,380,337; June 7; v. 287; p. 3.
- Advance Electric Company, The. (See Bretsch, Edward, assignor.)
- Advance Machine Co. (See Antoine, A. D., and Travis, assignors.)
- Advance Manufacturing Company, The. (See Saborsky, Arthur D., assignor.)
- Aeolian Company, The. (See Dickinson, J. H., and Collyer, assignors.)
- Aeolian Company, The. (See Emmons, Charles L., assignor.)
- Aeolian Company, The. (See Head, Robert, assignor.)
- Aeolian Company, The. (See Prettie, Richard J., assignor.)
- Aeolian Company, The. (See Scherr, Emilius W., Jr., assignor.)
- Aerl, Van V., Waco, Tex. Tractor. No. 1,372,386; Mar. 22; v. 284; p. 669.
- Aermotor Company. (See Scholes, Daniel R., assignor.)
- Aeromarine Plane & Motor Company. (See Zimmermann, Paul G., assignor.)
- Afanador, Angel, Lincoln, Nebr. Valve-gear for motors. No. 1,385,104; July 19; v. 288; p. 514.
- Agassiz, James B., Hana Maui, Hawaii. Drill. No. 1,400,132; Dec. 13.
- Agier, Henri G. E., New York, N. Y. Block-printing machine for fabrics. No. 1,384,934; July 19; v. 288; p. 477.
- Agneni, Agnenio, Rome, Italy. Plow. No. 1,371,064; Mar. 8; v. 284; p. 294.
- Agnew, Paul G. (See Loomis, A. L., Klopsteg, Agnew, and Stannard.)
- Agnew, Samuel E., Dawson, N. Mex. Cigarette-making machine. No. 1,367,171; Feb. 1; v. 283; p. 57.
- Agre, Carl S., Volga, S. D. Automatic grain-shocker. No. 1,380,285; May 31; v. 286; p. 999.
- Agutter, George, New York, N. Y. Racket. No. 1,381,050; June 7; v. 287; p. 140.
- Ahearn, John J., Palmer, assignor of one-fourth to P. Ahearn, Corinth, N. Y. Automobile direction-signal. No. 1,364,063; Jan. 4; v. 282; p. 3.



*Alphabetical list of patentees—Continued.*

- Ahearn, Patrick. (See Ahearn, John J., assignor.)  
 Ahearn, Thomas, Ottawa, Ontario, Canada. Driving mechanism for talking-machines. No. 1,399,239; Dec. 6.  
 Ahl, Frank H. (See Parr, Albert, assignor.)  
 Ahlbell Battery Container Corporation. (See Ahlgren, John M., assignor.)  
 Ahlberg, Karl E., Los Angeles, Calif. Dual-speed transmission. No. 1,381,051; June 7; v. 287; p. 140.  
 Ahlbrecht, August, Pittsburgh, Pa. Aeroplane. No. 1,371,592; Mar. 15; v. 284; p. 460.  
 Ahlby John, Bergland, Mich. Tie and rail holder. No. 1,401,935; Dec. 27.  
 Ahler, Edwin A., Chester, Pa. Doll. No. 1,387,224; Aug. 9; v. 289; p. 321.  
 Ahlers, Louis. (See Schmidt, J. H., and Ahlers.)  
 Ahlert, Ernest. (See Scholl, Paul, assignor.)  
 Ahlgren, John M., Indianapolis, Ind., assignor to Ahlbell Battery Container Corporation, Chicago, Ill. Storage-battery container. No. 1,384,816; July 19; v. 288; p. 453.  
 Ahlgren, Oscar W., assignor of one-half to D. A. Heidt, Utica, N. Y. Garment-hanger with check-controlled and coin-operated means. No. 1,371,213; Mar. 15; v. 284; p. 385.  
 Ahlm, Charles E. F., and T. F. Ferry, Cleveland, Ohio. Heating apparatus for metalworking machines. No. 1,400,846; Dec. 20.  
 Ahlmgren, Walborg, New York, N. Y., and H. C. Karlson, Hasbrouck Heights, N. J. Dress-shield fastener. No. 1,371,593; Mar. 15; v. 284; p. 460.  
 Ahlmgren, Walborg, New York, N. Y., assignor of one-third to H. C. Karlson, Hasbrouck Heights, N. J., and one-third to C. A. Bursell, New York, N. Y. Toy carousel. No. 1,389,926; Sept. 6; v. 290; p. 74.  
 Ahlstrom, Charles A., Jamestown, N. Y. Lid-support. No. 1,379,794; May 31; v. 286; p. 906.  
 Ahond, Felix, Paris, France. Variable-speed gear. No. 1,370,080; Mar. 1; v. 284; p. 62.  
 Ahrenkiel, Eduard, *et al.* (See Liebenow, Karl, assignor.)  
 Aichele, Albert, Baden, Switzerland. Apparatus for operating the sliding wheels of change-speed gears. No. 1,379,891; May 31; v. 286; p. 924.  
 Aichele, Albert, assignor to A. G. Brown Boveri & Cie., Baden, Switzerland. Magneto-ignition apparatus. No. 1,391,234; Sept. 20; v. 209; p. 492.  
 Aichele, William F., Good Ground, N. Y. Emergency-tire. No. 1,377,170; May 10; v. 286; p. 207.  
 Aicher, Gustav A., assignor to Arden Salt Company, San Francisco, Calif. Salt-harvesting machine. No. 1,377,999; May 17; v. 286; p. 419.  
 Aiguier, Harold, Kearney, N. J. Combined knife and saw. No. 1,388,014; Aug. 16; v. 289; p. 531.  
 Aiken, Frank, Elkins Park, assignor to Atwater Kent Manufacturing Works, Philadelphia, Pa. Electric ignition apparatus. No. 1,375,884; Apr. 26; v. 285; p. 618.  
 Aiken, George A., Clifton, N. J. Cutting shirts. No. 1,378,164; May 17; v. 286; p. 451.  
 Aikin, Arthur C., Mason City, Iowa. Lug-shield for tractor-wheels. No. 1,377,794; May 10; v. 286; p. 327.  
 Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pump and pumping system. No. 1,385,061; July 19; v. 288; p. 504.  
 Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pumping system. No. 1,385,062; July 19; v. 288; p. 505.  
 Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pumping system. No. 1,385,063; July 19; v. 288; p. 505.  
 Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pumping system. No. 1,385,064; July 19; v. 288; p. 505.  
 Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pneumatic pump. No. 1,385,065; July 19; v. 288; p. 506.  
 Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Control system for compressors and the like. No. 1,400,133; Dec. 19.  
 Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Protective device for fluid-pressure brakes. No. 1,400,651; Dec. 20.  
 Ailes, Adrian S., assignor of sixty per cent. to J. H. Taft, Chicago, Ill. Auxiliary lock for safes, vaults, &c. No. 1,397,999; Nov. 22.  
 Aills, Harry W., Cincinnati, Ohio. Automobile tool-box. No. 1,398,884; Nov. 29.  
 Aills, Harry W., Cincinnati, Ohio. Vehicle-curtain container. No. 1,398,885; Nov. 29.  
 Aimes, W. R., and G. H. T. Schaefer, Atchison, Kans. Display apparatus. No. 1,389,177; Aug. 30; v. 289; p. 873.  
 Aimes, William R., Atchison, Kans. Advertising display apparatus. No. 1,368,533; Feb. 15; v. 283; p. 428.  
 Ainsberry, Michael C. (See Weithans, John J., assignor.)  
 Ainsworth, William A., Utica, N. Y. Cleaning knitted or like fabrics. No. 1,375,663; Apr. 26; v. 285; p. 577.  
 Air-O-Mix Corporation, The. (See Meredith-Jones, Hubert, assignor.)  
 Air Reduction Company. (See Metzger, Floyd J., assignor.)  
 Air Reduction Company. (See Von Recklinghausen, Max, assignor.)  
 Air Reduction Company. (See Walker, George L., assignor.)  
 Air Reduction Company. (See Wilkinson, Walter, assignor.)  
 Air Reduction Company. (See Zouck, G. H., and Walker, assignors.)  
 Air Reduction Company. (See Zouck, George H., assignor.)  
 Air Reduction Company Incorporated. (See Kaufman, Alfonso, assignor.)  
 Aircraft Propeller Corporation. (See Luense, Frederick H., assignor.)  
 Aird, George, North Bay, Ontario, Canada, and W. Aird, San Francisco, Calif. Clamping device. No. 1,387,226; Aug. 9; v. 289; p. 321.  
 Aird, James A., Montreal, Quebec, Canada. Light. No. 1,401,852; Dec. 27.  
 Aird, Wilfred. (See Aird, George and W.)  
 Airey, Walter E., and J. Pomfret, Manchester, England. Umbrella. No. 1,373,642; Apr. 5; v. 285; p. 51.  
 Airgood, Murrel D., Indiana, Pa. Bit-box. No. 1,399,680; Dec. 6.  
 Aisenberg, Jacob, Corona, N. Y. Moving sign. No. 1,387,635; Aug. 16; v. 289; p. 456.  
 Aisenstein, William. (See Frankel, M. Aisenstein, and Obermaier.)  
 Aitchison, William, *et al.* (See Welch, James G., assignor.)  
 Aitken, Leonard, assignor to Lawrence Duck Company, Lawrence, Mass. Automatic weft-replenishing loom. No. 1,375,885; Apr. 26; v. 285; p. 618.  
 Aitken, Leonard, assignor to Lawrence Duck Company, Lawrence, Mass. Weft-replenishing loom. No. 1,375,886; Apr. 26; v. 285; p. 618.  
 Aitken, Thomas W. (See Heley, A. E., and Aitken.)  
 Ajax Electrothermic Corporation. (See Northrup, Edwin F., assignor.)  
 Ajax Foundry Company. (See Edwards, Harry T., assignor.)  
 Ajax Manufacturing Company, The. (See Blakeslee, John R., assignor.)  
 Ajello, Gaetan, New York, N. Y. Landing-gear and shock-absorber for aircraft. No. 1,376,912; May 3; v. 286; p. 102.  
 Ajouz, George, Detroit, Mich. Velocipede. No. 1,379,604; May 31; v. 286; p. 871.  
 Akaki, Kanzaburo, Higashiku, Osaka, and M. Itoi, Yodobashicho, Tokyo, Japan. Apparatus for lifting and floating sunken vessels or the like. No. 1,383,051; June 28; v. 287; p. 683.  
 Akeley, Carl E., New York, N. Y. Composite reflector and making the same. No. 1,382,261; June 21; v. 287; p. 478.  
 Akeley, Carl E., New York, N. Y. Mirror and backing the same. No. 1,384,294; July 12; v. 288; p. 264.  
 Akeley, Carl E., New York, N. Y. Backing mirrors. No. 1,384,420; July 12; v. 288; p. 290.  
 Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Long-distance signal and control apparatus. No. 1,370,257; Mar. 1; v. 284; p. 96.  
 Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Apparatus for the electrical long-distance control of the valve-gear of a hydraulic gun-pointing mechanism. No. 1,371,136; Mar. 8; v. 284; p. 307.  
 Akemann, Walther, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fire-control apparatus for naval guns. No. 1,373,793; Apr. 5; v. 285; p. 80.  
 Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Apparatus for the electrical long-distance control of the valve-gear of a hydraulic gun-pointing gear. No. 1,375,269; Apr. 19; v. 285; p. 468.  
 Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Long-distance signal and control system. No. 1,375,437; Apr. 19; v. 285; p. 501.  
 Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Long-distance control and signal device. No. 1,375,438; Apr. 19; v. 285; p. 501.  
 Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fire-control apparatus for naval guns. No. 1,379,506; May 24; v. 286; p. 778.  
 Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fire-direction apparatus for naval guns. No. 1,384,005; July 5; v. 288; p. 155.  
 Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fire-control apparatus particularly intended for naval guns. No. 1,387,440; Aug. 9; v. 289; p. 365.  
 Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Apparatus for the electrical long-distance control of the valve-gear of a hydraulic gun-pointing gear. No. 1,394,520; Oct. 25.  
 Akemann, Walther, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fire control apparatus particularly intended for naval guns. No. 1,401,028; Dec. 20.  
 Aker, Smith N., Newbern, Tenn. Cotton-picker's sack. No. 1,398,826; Nov. 29.



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- Akerlund, Karl R., Chicago, Ill. Spring-motor. No. 1,385,351; July 26; v. 288; p. 639.
- Akers, David, Carlstadt, N. J. Sediment-remover. No. 1,367,449; Feb. 1; v. 283; p. 112.
- Akers, Glen, assignor to Jennings Automatic Dump Body, Inc., Roanoke, Va. End-gate-operating mechanism. No. 1,394,521; Oct. 25.
- Akers, Joseph B., New York, N. Y. Curtain-rod. No. 1,398,411; Nov. 29.
- Akers, Maurice L., and A. D. Seibert, Pendleton, Oreg. Cutting-tool. No. 1,371,660; Mar. 15; v. 284; p. 474.
- Akhuona, Dinshaw J., et al. (See Mehta, Phirozenshaw M., assignor.)
- Akimoff, Nicholas W., Philadelphia, Pa., assignor to Vibration Specialty Company. Shaft-support for testing purposes. No. 1,365,440; Jan. 11; v. 282; p. 312.
- Akimoff, Nicholas W., Wynnewood, assignor to Vibration Specialty Company, Philadelphia, Pa. Steering-column for automotive apparatus. No. 1,380,338; June 7; v. 287; p. 3.
- Akimoff, Nicholas W., Wynnewood, assignor to General Machinery Foundations Company, Philadelphia, Pa. Hinge connection. No. 1,389,728; Sept. 6; v. 290; p. 34.
- Akin, Earl V. (See Alyn, Walter S., assignor.)
- Akin, Gaylord W. (See Smeby, K. A., and Akin.)
- Akins, Randall P. (See Gross, F. D., Akins, and Bucher.)
- Akitt, Norman B. (See Peters, John J., assignor.)
- Akre, Salemon, Seattle, Wash. Apparatus for handling purse-seines. No. 1,390,006; Sept. 6; v. 290; p. 90.
- Akron Rubber Mold & Machine Company, The. (See Kuentzel, Curt, assignor.)
- Akron Wrench and Vise Company, The. (See Long, John R., assignor.)
- Aktiebolaget Ars. (See Reiche, Arthur, assignor.)
- Aktiebolaget C. E. Johansson. (See Sjökvist, F. G. H., and Ericksson, assignors.)
- Aktiebolaget C. E. Johansson. (See Westerberg, Carl A., assignor.)
- Aktiebolaget Gerh. Arehns Mekaniska Verkstad. (See Ekström, G. C., Johnson, and Orström, assignors.)
- Aktiebolaget Gustafsbergs Fabriks Inkensenter. (See Odelberg, Axel S. W., assignor.)
- Aktiebolaget Gyro. (See Cassel, Gunnar E., assignor.)
- Aktiebolaget Ingenjörfirma Fritz Egnell. (See Rodhe, Olof, assignor.)
- Aktiebolaget Karlstads Mekaniska Verkstads. (See Wagner, Rudolf E., assignor.)
- Aktiebolaget Laurin & Perkel. (See Öhrström, Vilhelm, assignor.)
- Aktiebolaget Lindens Hemmaskiner. (See Johansson, Klas H., assignor.)
- Aktiebolaget Ljungströms Angturbin. (See Ljungström, F., Broberg, and Ericksson, assignors.)
- Aktiebolaget Ljungströms Angturbin. (See Ljungström, Fredrik, assignor.)
- Aktiebolaget Lidkopings Mekaniska Verkstad. (See Olsson, Karl, and A. H., assignors.)
- Aktiebolaget Ljungströms Angturbin. (See Wiberg, Oskar A., assignor.)
- Aktiebolaget Original-Odhner. (See Kuikka, Edward, assignor.)
- Aktiebolaget Pump-Separator. (See Munters, Anders J. E., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Fjellman, Bengt W., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Hultgren, Axel G. E., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Larson, E. G., and Söderström, assignors.)
- Aktiebolaget Svenska Kullagerfabriken. (See Palmgren, Nils A., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Rydbeck, Patrik S., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Wingqvist, Erik H., assignor.)
- Aktiebolaget Tubus. (See Karlsson, Walfrid, assignor.)
- Aktiebolaget Vaporackumulator. (See Ruths, Johannes K., assignor.)
- Aktiengesellschaft Brown, Boveri and Cie. (See Brown, E., and Carrard, assignors.)
- Aktiengesellschaft Brown Boveri & Cie. (See Brown, Eric, assignor.)
- Aktiengesellschaft Brown Boveri & Cie. (See Häberli, F., and Kubler, assignors.)
- Aktiebolaget Ljungströms Angturbin. (See Ljungström, Fredrik, assignor.)
- Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie. (See Keller, Huldreich, assignor.)
- Alary, Alphonse, St. Casimir, Quebec, Canada. Hinge. No. 1,379,951; May 31; v. 286; p. 936.
- Albany Boot Corporation. (See Gardner, Elliott, assignor.)
- Alber, George, Columbus, Ohio. Friction-clutch. No. 1,371,719; Mar. 15; v. 284; p. 485.
- Albergoli, Bernardo, Las Rosas, Argentina. Separable chair. No. 1,392,242; Sept. 27; v. 290; p. 769.
- Albers, Clinton C., and G. Dumler, Hargrave, Kans. Trap. No. 1,372,663; Mar. 29; v. 284; p. 763.
- Albers, Henry J., Breese, Ill. Miner's bit. No. 1,371,137; Mar. 8; v. 284; p. 308.
- Albert, Alverdo S., Ione, Wash. Milk-shake-powder compound. No. 1,388,084; Aug. 16; v. 289; p. 544.
- Albert, George L., Dayton, E. H. Allen and A. Armstrong, Germantown, Ohio. Chain pipe-wrench. No. 1,364,064; Jan. 4; v. 282; p. 3.
- Albert, Henry, assignor to Art Toy & Stamping Works, Inc., New York, N. Y. Valve for toy balloons and the like. No. 1,370,178; Mar. 1; v. 284; p. 80.
- Albert, Ira C. (See Bittle, Harry, assignor.)
- Albert, Otto. (See Nelson, K. O., and Albert.)
- Albert, Talbot J., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing tetra-substituted ureas. No. 1,393,597; Oct. 11.
- Alberti, Antoine G., and A. B. Baron, Paris, France. Slicing-machine. No. 1,369,600; Feb. 22; v. 283; p. 674.
- Alberti, Emilio and J., New York, assignors to International Cork Company, Brooklyn, N. Y. Machine for manufacturing closures for bottles and other receptacles. No. 1,401,300; Dec. 27.
- Alberti, John. (See Alberti, Emilio and J.)
- Albertson & Company. (See Albertson, Frans O., assignor.)
- Albertson, Frans O., assignor to Albertson & Company, Sioux City, Iowa. Bushing-remover. No. 1,381,101; June 14; v. 287; p. 201.
- Albertson, Frans O., assignor to Albertson & Company, Sioux City, Iowa. Valve-grinders. No. 1,386,085; Aug. 2; v. 289; p. 25.
- Albi, Frank. (See Copelli, A., and Albi.)
- Albig, William O. (See Currie, Otis C., assignor.)
- Albin Dreschel Sohne. (See Dreschel, Emil A., assignor.)
- Albin, Everett V., Lynbrook, assignor to A. G. Spalding & Bros., New York, N. Y. Hip and kidney pad. No. 1,373,377; Mar. 29; v. 284; p. 905.
- Albonesi, Charles, Dumont, N. J. Sash-lock construction. No. 1,394,513; Oct. 18.
- Alborn, Frans G., Milford, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Clutch. No. 1,368,596; Feb. 15; v. 283; p. 440.
- Alborn, Frans G., Milford, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Tappet-valve mechanism. No. 1,399,839; Dec. 13.
- Alborn, Frans G., Milford, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Brake. No. 1,400,340; Dec. 13.
- Albrecht, Charles, Jr., Schleisingerville, Wis. Door-operating mechanism. No. 1,366,236; Jan. 18; v. 282; p. 508.
- Albrecht, Edward, and W. H. Schussler, Philadelphia, Pa. Hoisting and dumping vehicle. No. 1,377,611; May 10; v. 286; p. 291.
- Albrecht, Nunnally H., and W. A. Baldwin, Dawson, Ga. Mousetrap. No. 1,388,786; Aug. 23; v. 289; p. 740.
- Albrecht, Theodore A. L. (See Wandersee, J. F., Peretto, and Albrecht.)
- Albrecht, Theodore, Royal Oak, R. Peretto, Farmington, and J. F. Wandersee, assignors to Ford Motor Company of Delaware, Highland Park, Mich. Metal alloy. No. 1,376,062; Apr. 26; v. 285; p. 652.
- Albrechtsen, Harald, and S. I. Iversen, Copenhagen, Denmark. Gas-cooker. No. 1,393,481; Oct. 11.
- Albricht, William H., and P. W. Reardon, Quincy, Ill. Submerged pump. No. 1,370,506; Mar. 8; v. 284; p. 187.
- Albright, Asa I., and F. L. Myatt, Monroe, La. Riveting-tool. No. 1,384,374; July 12; v. 288; p. 281.
- Albright, Jacob J., assignor of one-third to J. H. Farish and one-third to B. C. Jenkins, Columbus, Ga. Register. No. 1,392,899; Oct. 11.
- Albrink, Willis S. (See Bichan, Herbert, and Albrink.)
- Albro, George F., Los Angeles, Calif. Combined office and drophead-typewriter desk. No. 1,398,618; Nov. 29.
- Album, Adolph Y. S., Chicago, Ill. Jeweler's tray. No. 1,390,855; Sept. 13; v. 290; p. 352.
- Album, Adolph Y. S., Chicago, Ill. Hairpin. No. 1,390,856; Sept. 13; v. 290; p. 352.
- Albury, Robert C., and L. T. Hayman, Tampa, Fla. Automatic stop mechanism for railways. No. 1,380,174; May 31; v. 286; p. 978.
- Alchin, Albert E., Perth Amboy, N. J. Machine for cutting blocks into smaller sizes. No. 1,397,198; Nov. 15.
- Aldeborgh, Erik H., assignor to C. E. Johansson, Inc., Poughkeepsie, N. Y. Mechanical movement. No. 1,387,825; Aug. 16; v. 289; p. 494.
- Aldeborgh, Erik H., New York, N. Y., assignor to C. E. Johansson, Eskilstuna, Sweden. Diameter-gage. No. 1,401,119; Dec. 27.
- Aldeen, Reuben A., and S. Hillman, Rockford, Ill. Instrument of precision. No. 1,392,734; Oct. 4.
- Alden, George I. (See Dower, George G., assignor.)
- Alden, George I., assignor to Norton Company, Worcester, Mass. Easy-start driving and reversing mechanism. No. 1,387,636; Aug. 16; v. 287; p. 456.
- Alden, Herbert W., U. S. Army, assignor to N. D. Baker, trustee, Secretary of War of the United States of America. Tank. No. 1,366,550; Jan. 25; v. 282; p. 614.
- Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Steering-knuckle. No. 1,371,594; Mar. 15; v. 284; p. 460.
- Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Hitch for tractors. No. 1,374,271; Apr. 12; v. 285; p. 214.



- Alden, Seth F., San Francisco, and H. C. Eddy, Los Angeles, Calif.; said Eddy assignor to Petroleum Rectifying Company of California. Process and apparatus for refining liquid mixtures. No. 1,394,462; Oct. 18.
- Alden, Walter A. (See Benjamin, R. B., and Alden.)
- Alderdice, Walter, New York, N. Y., assignor to Mergenthaler Linotype Company. Slug-casting machine. No. 1,379,892; May 31; v. 286; p. 924.
- Alderman, Daniel W., Chicago, Ill. Railway-car-truck pedestal and journal-box. No. 1,365,142; Jan. 11; v. 282; p. 255.
- Alderson, William, Kimberly, Cape of Good Hope, South Africa. Wheel and resilient tire for road-vehicles. No. 1,389,729; Sept. 6; v. 290; p. 34.
- Aldrich, Thomas B., assignor to Parke, Davis & Company, Detroit, Mich. Benzoic-acid esters of tribromotertiary butyl alcohol. No. 1,397,913; Nov. 22.
- Aldridge, W. Herbert, Portland, Oreg. Tire-armor. No. 1,401,301; Dec. 27.
- Alexander, Albert D., Fredericksburg, Va. Vise for holding pistons and caps. No. 1,372,665; Mar. 29; v. 284; p. 763.
- Alexander, Clive M., New York, N. Y. Making metallic halids. No. 1,366,626; Jan. 25; v. 282; p. 629.
- Alexander, Clive M., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Heating oil-retorts and apparatus therefor. No. 1,387,677; Aug. 16; v. 289; p. 464.
- Alexander, Clive M., Port Arthur, Tex., and G. H. Taber, Jr., assignors to Gulf Refining Company, Pittsburgh, Pa. Catalyzing oil and apparatus therefor. No. 1,381,093; June 14; v. 287; p. 201.
- Alexander, D. J., *et al.* (See Parker, George C., assignor.)
- Alexander, G. M. (See Price, Charles E., assignor.)
- Alexander, George E., New York, N. Y. Wheel. No. 1,379,507; May 24; v. 286; p. 778.
- Alexander, George E. and R. W., Newport, N. H. Reinforced bow for rakes. No. 1,383,182; June 28; v. 287; p. 707.
- Alexander, Harry, Jersey City, assignor to New York Bottlers Supplies Manufacturing Co., Hoboken, N. J. Syrup-measuring device for bottle-fillers. No. 1,394,530; Oct. 25.
- Alexander, Herman L., Chicago, Ill. Cooking utensil. No. 1,384,035; July 12; v. 288; p. 211.
- Alexander, Laurence G. (See Logan, Marselius J., assignor.)
- Alexander, Oliver T., Altonpark, Tenn. Recording instrument. No. 1,368,092; Feb. 8; v. 283; p. 293.
- Alexander, Milton W., Albany, assignor, by mesne assignments, to Henry L. Hughes Co., Inc., New York, N. Y. Brush. No. 1,364,971; Jan. 11; v. 282; p. 222.
- Alexander Potato Curing Company. (See Iles, E. J., and Hastings, assignors.) (Reissue.)
- Alexander, Ralph W. (See Alexander, George E. and R. W.)
- Alexander, Robert H., Willington Quay, and T. Graham, Sunderland, England. Ship's davit. No. 1,389,338; Aug. 30; v. 289; p. 905.
- Alexander, Robert L., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Pole and constructing same. No. 1,369,765; Mar. 1; v. 284; p. 3.
- Alexander, Rush, Baton Rouge, La. Collapsible paper box. No. 1,368,597; Feb. 15; v. 283; p. 440.
- Alexander, Wallace, Jersey City, N. J., assignor to The De Laval Separator Company, New York, N. Y. Extracting oil from cocoanuts. No. 1,366,338; Jan. 25; v. 282; p. 571.
- Alexander, Wallace, Jersey City, N. J., assignor to The De Laval Separator Company, New York, N. Y. Separation of food products from fresh cocoanuts. No. 1,366,339; Jan. 25; v. 282; p. 571.
- Alexander, Wallace, Jersey City, N. J., assignor to The De Laval Separator Company, New York, N. Y. Separating butter-oil from milk, skim-milk, cream, butter-milk, butter, &c. No. 1,401,853; Dec. 27.
- Alexander, Walter, New York, N. Y. Waterproofing. No. 1,385,854; July 26; v. 288; p. 742.
- Alexander, William T., *et al.* (See Torrey, Charles L., assignor.)
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Series-multiple control. No. 1,365,441; Jan. 11; v. 282; p. 313.
- Alexanderson, Ernst F. W., and S. P. Nixdorff, Schenectady, N. Y., assignors to General Electric Company. High-frequency alternator. No. 1,366,627; Jan. 25; v. 282; p. 629.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. High-frequency alternator. No. 1,369,601; Feb. 22; v. 283; p. 674.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Radio-receiving system. No. 1,373,931; Apr. 5; v. 285; p. 108.
- Alexanderson, Ernst F. W., assignor to General Electric Company, Schenectady, N. Y. System of electrical distribution. No. 1,375,991; Apr. 26; v. 285; p. 638.
- Alexanderson, Ernst F. W., assignor to General Electric Company, Schenectady, N. Y. Radio-receiving system. No. 1,375,992; Apr. 26; v. 285; p. 638.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Means for frequency transformations. No. 1,382,877; June 28; v. 287; p. 650.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Cooling dynamo-electric machines. No. 1,382,878; June 28; v. 287; p. 650.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Apparatus for producing and distributing electric-current waves of radiofrequency. No. 1,386,830; Aug. 9; v. 289; p. 244.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. System of radio communication. No. 1,400,847; Dec. 20.
- Alexandre, Lily, San Francisco, Calif. Thread cutter and holder. No. 1,367,791; Feb. 8; v. 283; p. 237.
- Aley, John B., Pittsburgh, Pa. Game. No. 1,395,545; Nov. 1.
- Alfa-Maise Manufacturing Company. (See Sharp, Lee C., assignor.)
- Alford, Allen, Waco, Tex. Rock-drill. No. 1,387,447; Aug. 16; v. 289; p. 417.
- Alger, Harley C. (See Kately, S. E., and Alger.)
- Alger, Harley C., Oak Park, Ill. Liquid-meter. No. 1,393,931; Oct. 18.
- Alger, Russell A., Detroit, Mich. Vehicle-wheel. No. 1,386,086; Aug. 2; v. 289; p. 25.
- Algrim, Charles, Chicago, Ill. Bolt-clamp for vise-jaws. No. 1,395,659; Nov. 1.
- Alker, Clarence H., New Orleans, La. Dumping-body. No. 1,381,099; June 14; v. 287; p. 201.
- Alkire, Frederick W. (See Valentine, J. R., and Alkire.)
- All-Steel-Equip Company. (See Erickson, Axel F., assignor.)
- Allais, Emile, Reims, France. Combined apparatus for taking and projecting pictures. No. 1,397,496; Nov. 22.
- Allan, Allen C., Chicago, Ill. Wrench. No. 1,386,149; Aug. 2; v. 289; p. 37.
- Allan, Alonzo H., Leicester, England. Toy dancing figure. No. 1,373,932; Apr. 5; v. 285; p. 108.
- Allan, Charles D. (See Carter, Byron B., assignor.)
- Allan, Frank, Barrow-in-Furness, England. Bolt, rivet, and the like. No. 1,400,401; Dec. 13.
- Allan, Hugh L., Ayr, Scotland. Oil-refining apparatus. No. 1,390,742; Sept. 13; v. 290; p. 329.
- Allan, Thomas A. (See Tillett, C. H., and Allan.)
- Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,364,824; Jan. 4; v. 282; p. 149.
- Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,374,798; Apr. 12; v. 285; p. 315.
- Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,389,472; Aug. 30; v. 289; p. 931.
- Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,389,473; Aug. 30; v. 289; p. 931.
- Allard, Pierre, Maisonneuve, Quebec, Canada. Ticket-holder. No. 1,401,120; Dec. 27.
- Allardyce, James A., Minneapolis, Minn. Aeroplane. No. 1,383,509; July 5; v. 288; p. 52.
- Allatt, Thomas, Westfield, N. J., assignor to International Cork Company, Brooklyn, N. Y. Cork-feeding device. No. 1,386,485; Aug. 2; v. 289; p. 101.
- Allatt, Thomas, Westfield, N. J., assignor to International Cork Company, Brooklyn, N. Y. Cork-feeding device. No. 1,395,248; Nov. 1.
- Albright-Nell Company. (See Kohlhepp, John W., assignor.)
- Albright-Nell Co., The. (See Lundell, Alvin O., assignor.)
- Allcutt, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective device. No. 1,371,538; Mar. 15; v. 284; p. 450.
- Allcutt, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. No. 1,385,979; Aug. 2; v. 289; p. 3.
- Allcutt, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting device. No. 1,385,980; Aug. 2; v. 289; p. 3.
- Allcutt, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring device. No. 1,390,743; Sept. 13; v. 290; p. 330.
- Allcutt, Chester T. (See Mateer, J. E., and Allcutt.)
- Aldredge, Francis B., Des Moines, Iowa. Device and process for automatically removing water from gas wells. No. 1,377,171; May 10; v. 286; p. 207.
- Aldredge, Francis B., Des Moines, Iowa. Detachable-end bailer. No. 1,389,023; Aug. 30; v. 289; p. 842.
- Aldis, Frederick L. (See Groehn, O. J., and Aldis.)
- Alleigh, Leanne E., San Francisco, Calif. Garment. No. 1,396,616; Nov. 8.
- Alleman, John K., Amberson, Pa. Husking-truck and fodder-binder. No. 1,367,344; Feb. 1; v. 283; p. 92.
- Allen, Charles, El Paso, Tex. Thickener, (sewage type). No. 1,374,134; Apr. 5; v. 285; p. 146.
- Allen, Charles, El Paso, Tex. Automatic separator and evaporator. No. 1,374,135; Apr. 5; v. 285; p. 146.
- Allen, Charles, El Paso, Tex. Feed-spout barrier. No. 1,374,625; Apr. 12; v. 285; p. 282.
- Allen, Charles, El Paso, Tex. Automatic sand-trap. No. 1,374,626; Apr. 12; v. 285; p. 283.
- Allen, Arthur E., Kirkland, Wash. Dehydrating potatoes. No. 1,377,172; May 10; v. 286; p. 207.
- Allen, Andrew J., La Grange, Ill. Basket. No. 1,394,463; Oct. 18.
- Allen, Annie, administratrix. (See Koenig, William J.)



## Alphabetical list of patentees—Continued.

- Allen, Arthur M., New Brighton, N. Y. Multiple-geared velocipede. No. 1,397,068; Nov. 15.
- Allen, Bernard J., Blythe Bridge, England. Means for casting pottery and like articles. No. 1,398,760; Nov. 29.
- Allen, Charles E., Williamson, Pa. Nut-lock. No. 1,390,007; Sept. 6; v. 290; p. 90.
- Allen, Charles H. (See Anderson, J. B., and Allen.)
- Allen, Charles H., Attleboro, Mass. Collar-holder. No. 1,387,878; Aug. 16; v. 289; p. 505.
- Allen, Charles H., Chicago, Ill. Headlight. No. 1,393,877; Oct. 18.
- Allen, Charles H., and J. B. Anderson, Pittsburgh, Pa. Burner-cleaning device for blowtorches. No. 1,390,264; Sept. 13; v. 290; p. 233.
- Allen, Charles H., and J. B. Anderson, Pittsburgh, Pa. Blowtorch. No. 1,390,265; Sept. 13; v. 290; p. 234.
- Allen, Charles H., assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. System of motor control. No. 1,401,387; Dec. 27.
- Allen, Charles J., *et al.*, executors. (See Allen, Samuel L.)
- Allen, Charles J., San Francisco, Calif. Portable loading device. No. 1,378,576; May 17; v. 286; p. 528.
- Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Tractor. No. 1,373,852; Apr. 5; v. 285; p. 92.
- Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Tractor. No. 1,387,225; Aug. 9; v. 289; p. 321.
- Allen, Charles J., Moorestown, N. J. Agricultural implement. No. 1,389,113; Aug. 30; v. 289; p. 859.
- Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Tractor. No. 1,391,929; Sept. 27; v. 290; p. 705.
- Allen, Charles J., Moorestown, N. J., J. M. Howard, Media, and D. R. Richie, Lansdowne, Pa. Cultivator. No. 1,394,522; Oct. 25.
- Allen, Charles O., Shawnee, Okla. Swivel connection for electrical conductors. No. 1,379,795; May 31; v. 286; p. 906.
- Allen, Charles R., Oakland, Calif. Screen. No. 1,369,514; Feb. 22; v. 283; p. 657.
- Allen, Charles R., assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Vehicle-top support. No. 1,374,627; Apr. 12; v. 285; p. 283.
- Allen, Charles R., assignor to The Ashtabula Bow Socket Company, Ashtabula, Ohio. Vehicle-top. No. 1,379,893; May 31; v. 286; p. 925.
- Allen, Chauncy W., Sacramento, Calif. Fishing-fly and making the same. No. 1,388,156; Aug. 23; v. 289; p. 615.
- Allen, Claude N., Michigan City, Ind. Cleaning implement. No. 1,981,121; Nov. 22.
- Allen, Dennis J., Binghamton, N. Y. Railway signal device. No. 1,388,787; Aug. 23; v. 289; p. 740.
- Allen, Ebenezer W. (See Heiby, C. G. Burkam, Lindquist, Riggin, Allen, and Law.)
- Allen, Edward A., and H. I. Allen, assignors to Electron Chemical Company, Portland, Me. Electrolytic cell. No. 1,373,394; Apr. 5; v. 285; p. 3.
- Allen, Edward B., Alexandria, La. Loading apparatus. No. 1,381,780; June 14; v. 287; p. 328.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Thread cutting and nipping mechanism for sewing-machines. No. 1,369,371; Feb. 22; v. 283; p. 229.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 1,372,472; Mar. 22; v. 284; p. 685.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Power-transmitting mechanism. No. 1,372,475; Mar. 22; v. 284; p. 685.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Work-clamping mechanism for sewing-machines. No. 1,379,894; May 31; v. 286; p. 925.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Power-transmitting mechanism. No. 1,393,417; Oct. 11.
- Allen, Edward B., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Buttonhole-sewing machine. No. 1,394,135; Oct. 18.
- Allen, Edward B., Newton, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Gimp-thread-guiding means for buttonhole-sewing machines. No. 1,372,474; Mar. 22; v. 284; p. 685.
- Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Buttonhole cutting and stitching machine. No. 1,380,339; June 7; v. 287; p. 3.
- Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Buttonhole-cutting mechanism. No. 1,380,340; June 7; v. 287; p. 3.
- Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company. Power-table. No. 1,399,284; Dec. 6.
- Allen, Edward B., Newtown, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Buttonhole-cutting mechanism for sewing-machines. No. 1,399,731; Dec. 13.
- Allen, Edward B., and H. C. Faulkner, Bridgeport, Conn., assignors to The Singer Manufacturing Company. Stitch-forming mechanism. No. 1,372,473; Mar. 22; v. 284; p. 685.
- Allen, Edward C., New Haven, Conn. Means for stopping railway-trains at danger-signals. No. 1,386,302; Aug. 2; v. 289; p. 68.
- Allen, Edward H. (See Albert, G. L., Allen, and Armstrong.)
- Allen, Edward V., Waukegan, Ill. Automobile-fender. No. 1,398,957; Dec. 6.
- Allen, Elizabeth R., *et al.*, executors. (See Allen, Samuel L.)
- Allen, Eric, Bethel, Conn. Child's vehicle. No. 1,395,660; Nov. 1.
- Allen, Ernest J., Elmhurst, N. Y. Drill-slotter. No. 1,367,680; Feb. 8; v. 283; p. 215.
- Allen, Ervan V., Bogalusa, La. Cultivator. No. 1,378,165; May 17; v. 286; p. 451.
- Allen Filter Company, The. (See McNutt, Lawrence E., assignor.)
- Allen, Frank B., Ben Avon, and M. C. Sherman, Philadelphia, Pa., assignors to Baker-Dunbar-Alten Company, Cleveland, Ohio. Twin gate for hoppers. No. 1,381,175; July 12; v. 288; p. 239.
- Allen, H. A., & Company. (See Metcalf, Alpha H., assignor.)
- Allen, Harry G. (See Wolfe, C. H., and Allen.)
- Allen, Harry G., and W. H. Hamilton, Seattle, Wash.; said Hamilton assignor of his entire interest to said Allen. Torch. No. 1,370,258; Mar. 1; v. 284; p. 96.
- Allen, Harvey E. (See Poirier, A. F., and Allen.)
- Allen, Herbert C., Richmond, Va. Etching-machine. No. 1,389,284; Aug. 30; v. 289; p. 894.
- Allen, Herbert I. (See Allen, Edward A. and H. I.)
- Allen, Herbert I., assignor to Electron Chemical Company, Portland, Me. Electrolytic cell. No. 1,368,010; Feb. 8; v. 283; p. 278.
- Allen, Herbert I., assignor to Electron Chemical Company, Portland, Me. Electrolytic cell. No. 1,368,011; Feb. 8; v. 283; p. 278.
- Allen, Herbert I., and K. R. Fox, assignors to Electron Chemical Company, Portland, Me. Electrolytic cell. No. 1,374,976; Apr. 19; v. 285; p. 412.
- Allen, Herbert W., Sugar Pine, Calif. Manifold. No. 1,397,712; Nov. 22.
- Allen, Herman. (See Daraban, Charles J., assignor.)
- Allen Hosiery Company. (See Longtin, William J., assignor.)
- Allen, Isaiah J., Portland, Oreg. Rule. No. 1,368,876; Feb. 15; v. 283; p. 495.
- Allen, James M., *et al.*, trustees. (See Allen, James M., assignor.)
- Allen, James M., Thermopolis, Wyo. Lifting device. No. 1,368,534; Feb. 15; v. 283; p. 429.
- Allen, James M., St. Louis, Mo., assignor to said J. M. Allen, F. P. Smith, and F. D. Tucker, trustees for the Smith-Allen Battery Company. Electrode for secondary or storage batteries. No. 1,365,880; Jan. 18; v. 282; p. 439.
- Allen, James M., assignor to J. M. Allen, F. P. Smith, and F. D. Tucker, trustees for the Smith-Allen Battery Company, St. Louis, Mo. Separator for storage-battery plates. No. 1,368,093; Feb. 8; v. 283; p. 293.
- Allen, Jessie A., *et al.* (See Huntley, Charles L., assignor.)
- Allen, Jessie L., New York, N. Y. Mop cleaner and holder. No. 1,387,580; Aug. 16; v. 289; p. 445.
- Allen, John D., Philadelphia, Pa. Compensating gearing for motor-vehicles. No. 1,390,420; Sept. 13; v. 290; p. 264.
- Allen, John W., South Omaha, Nebr. Preparing malted food products. No. 1,385,352; July 26; v. 288; p. 639.
- Allen, Judge S., New York, N. Y. Hat-holder. No. 1,379,605; May 31; v. 286; p. 871.
- Allen, Leonard M. (See Clifton, Sydney, assignor.)
- Allen, Luean D., assignor of two-fifths to W. E. Allen, San Francisco, Calif. Demountable-tire rim. No. 1,377,173; May 10; v. 286; p. 207.
- Allen, Oglesby, Jr., assignor to Allen Specialty Company, Chicago, Ill. Spark-plug. No. 1,394,523; Oct. 25.
- Allen, Orren, Denver, Colo. Concrete-reinforcing metal unit for the walls, floors, and ceilings of buildings and for other concrete construction work. No. 1,390,073; Sept. 6; v. 290; p. 104.
- Allen, Robert E. B., Pensacola, Fla. Cuff-button. No. 1,398,954; Dec. 6.
- Allen, Roy F. (See MacCoy, A. T. and Allen.)
- Allen, Roy M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Switching system and indicating device therefor. No. 1,382,262; June 21; v. 287; p. 478.
- Allen, Roy M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Mounting for vacuum-tubes. No. 1,401,121; Dec. 27.
- Allen, Rufus R., Clarinda, Iowa. Quilting-frame. No. 1,390,857; Sept. 13; v. 290; p. 352.
- Allen, S. L., & Co. (See Allen, Charles J., assignor.)
- Allen, S. L., & Co. (See Bowen, James M., assignor.)
- Allen, S. L., and Co. (See Mader, Joseph, assignor.)
- Allen, S. L., & Co. (See Richie, David R., assignor.)
- Allen, S. L., & Co. (See Walz, Carl F., assignor.)



*Alphabetical list of patentees—Continued.*

- Allen, Samuel L., deceased, by S. H. Allen, E. R. Allen, S. J. Allen, and C. J. Allen, executors, Moorestown, N. J. Seed-sowing device. No. 1,387,436; Aug. 9; v. 289; p. 365.
- Allen, Sarah H., *et al.*, executors. (See Allen, Samuel L.)
- Allen, Sherman T. (See Clifton, Sydney, assignor.)
- Allen, Sherman T., Pasadena, Calif. Tractor-wheel. No. 1,368,535; Feb. 15; v. 283; p. 429.
- Allen, Simeon, C., *et al.* (See Logan, Frank J., assignor.)
- Allen Specialty Company. (See Allen, Oglesby, Jr., assignor.)
- Allen, Susan J., *et al.*, executors. (See Allen, Samuel L.)
- Allen, Thomas W., Hoquiam, Wash. Gear and key puller. No. 1,388,839; Aug. 30; v. 289; p. 805.
- Allen Typewriter Company. (See Uhlig, Richard W., assignor.)
- Allen, W. D., Manufacturing Company. (See Meng, Harry E., assignor.)
- Allen, William A., Yonkers, assignor to A. Schrader's Son, Incorporated, New York, N. Y. Tire-pressure gage. No. 1,370,678; Mar. 8; v. 284; p. 221.
- Allen, William E. (See Allen, Luean D., assignor.)
- Allen, William H., Detroit, Mich. Making phosphoric acid. No. 1,368,379; Feb. 15; v. 283; p. 398.
- Allen, William H., assignor to Parker Rust-Roof Company, Detroit, Mich. Controlling case-hardening. No. 1,377,174; May 10; v. 286; p. 207.
- Allen, William R., Hutchinson, Kans. Automatic timing device. No. 1,393,000; Nov. 22.
- Allen, William W., Streator, Ill. Spring-tire. No. 1,365,016; Jan. 11; v. 282; p. 232.
- Allender, Henry L. P., *et al.* (See Badder, Harry C., assignor.)
- Allerton, Samuel E., Chicago, Ill. Can-flanging machine. No. 1,365,073; Jan. 11; v. 282; p. 241.
- Alley, Frank, West Hartford, assignor to The Arrow Electric Company, Hartford, Conn. Safety device for stamping-presses and the like. No. 1,384,654; July 12; v. 288; p. 340.
- Alley, Stephen E., and A. Thomson, Shrewsbury, England. Combined crank-shaft and differential gear. No. 1,381,781; June 14; v. 287; p. 329.
- Allie, Lafayette J., St. Paul, Minn. Flue-stopper. No. 1,401,936; Dec. 27.
- Allied Tractor Company, The. (See Nielsen, Lauritz F., assignor.)
- Allingham, John, Los Angeles, Calif. Manufacture of zinc oxid direct from oxidized zinc ores. No. 1,380,514; July 7; v. 287; p. 36.
- Allingham, John, Los Angeles, Calif. Manufacture of zinc oxid direct from oxidized zinc ores. No. 1,380,515; July 7; v. 287; p. 36.
- Allingham, John, Los Angeles, Calif. Extracting potassium salts. No. 1,386,486; Aug. 2; v. 289; p. 101.
- Allington, John L., Joplin, Mo., assignor of one-third to O. M. Bilharz, Baxter Springs, Kans., and one-third to F. H. Gartung, Miami, Okla. Rock or dirt drag. No. 1,397,751; Nov. 22.
- Allinson, William, Des Moines, Iowa. Apparatus for purifying gasoline. No. 1,395,694; Nov. 1.
- Allis-Chalmers Manufacturing Company. (See Alexander, Robert L., assignor.)
- Allis-Chalmers Manufacturing Company. (See Atkins, Charles, assignor.)
- Allis-Chalmers Manufacturing Company. (See Baudisch, Hans, assignor.)
- Allis-Chalmers Manufacturing Company. (See Blankenhorn, George S., assignor.)
- Allis-Chalmers Manufacturing Company. (See Brown, Arthur J., assignor.)
- Allis-Chalmers Manufacturing Company. (See Cheney, Herbert W., assignor.)
- Allis-Chalmers Manufacturing Company. (See McCoy, James P. A., assignor.)
- Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)
- Allis-Chalmers Manufacturing Company. (See Nicht, Alexander J., Jr., assignor.)
- Allis-Chalmers Manufacturing Company. (See Sams, Fred V., assignor.)
- Allis-Chalmers Manufacturing Company. (See Search, Charles E., assignor.)
- Allis-Chalmers Manufacturing Company. (See Sprado, Carl G., assignor.)
- Allis-Chalmers Manufacturing Company. (See Steen, Halfdan A., assignor.)
- Allis-Chalmers Manufacturing Company. (See Trout, William H., assignor.)
- Allis-Chalmers Manufacturing Company. (See Williamson, Robert B., assignor.)
- Allis, Hannora E., administratrix. (See Allis, Thomas V.)
- Allis, Thomas V., deceased, Pittsburgh, Pa.; H. E. Allis administratrix. Heat-treating sheet and tin-plate bars. No. 1,367,000; Feb. 1; v. 283; p. 24.
- Allison, Albert K., Tappan, N. Y. System and apparatus for controlling motors. No. 1,398,056; Nov. 22.
- Allison, Clarence H., Chicago, Ill. Liquid-fuel burner. No. 1,394,603; Oct. 25.
- Allison, Estelle V., New York, N. Y. Advertising writing-tablet. No. 1,370,871; Mar. 8; v. 284; p. 257.
- Allison, George B., assignor to G. H. Beesmyer, Los Angeles, Calif. Ball-mill. No. 1,370,259; Mar. 1; v. 284; p. 96.
- Allison, Isalah, Downers Grove, and W. J. Leighty, Chicago, Ill. Oxyacetylene-blowpipe. No. 1,384,224; July 12; v. 288; p. 249.
- Allison, John, Dravosburg, Pa., assignor to Pittsburgh Steel Foundry Company. Railway-car underframe. No. 1,368,680; Feb. 15; v. 283; p. 457.
- Allison, John, Dravosburg, Pa., assignor to Pittsburgh Steel Foundry Company. Industrial car. No. 1,368,681; Feb. 15; v. 283; p. 457.
- Allison, Joseph E. (See Bartlett, E. C., and Allison.)
- Allison, Philip W. (See Sprague, F. D., and Allison.)
- Allman, Sydney K., Jenkintown, Pa. Bumper for automobiles. No. 1,378,000; May 17; v. 286; p. 419.
- Allmand, John T., assignor to Fisher Body Corporation, Detroit, Mich. Window-well construction. No. 1,383,052; June 28; v. 287; p. 683.
- Allmand, John T., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Windshield-wiper. No. 1,388,911; Aug. 30; v. 289; p. 819.
- Allmon, Joseph G., West Medford, Mass. Wrench. No. 1,384,655; July 12; v. 288; p. 340.
- Alloy Parts Manufacturing Company, The. (See Naugle, Harry M., assignor.)
- Alloys & Products, Inc. (See Hecht, H., and Black, assignors.)
- Allshouse, Clarence E., Chicago, Ill. Fruit and nut catcher. No. 1,371,999; Mar. 22; v. 284; p. 595.
- Allsop & Allsop. (See Allsopp, Thomas, assignor.)
- Allsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying-machine. No. 1,374,709; Apr. 12; v. 285; p. 298.
- Allsop, Thomas, and W. W. Sibson, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying-machine. No. 1,383,053; June 28; v. 287; p. 683.
- Allsopp, Thomas, Newark, N. J., assignor to Allsopp & Allsopp, Inc. Chain adapted as link-bracelet and the like. No. 1,373,395; Apr. 5; v. 285; p. 3.
- Allsteadt, John E., Hastings, Nebr. Tank-heater. No. 1,397,831; Nov. 22.
- Allsteel Ridewell Tire and Rubber Company, The. (See Huetter, Andrew, assignor.)
- Allsteellequip Company. (See Erickson, A. F., and Shiek, assignors.)
- Allsworth, Albert E., Peoria, Ill. Pencil. No. 1,382,047; June 21; v. 287; p. 438.
- Allworth, Arthur B., assignor to Edward Miller & Company, Meriden, Conn. Electric fixture. No. 1,398,956; Dec. 6.
- Allyn, Harley H., assignor to Standard Rubber Company, Houston, Tex. Pneumatic tire. No. 1,398,482; Nov. 29.
- Allyn, Walter S., Logan, assignor of one-half to E. V. Akin, Benton, Ill. Car-stopping attachment for elevators. No. 1,398,619; Nov. 29.
- Alm, John, and J. Hughes, Naugatuck, Conn., assignors to The Goodyear's Metallic Rubber Shoe Company. Rubber boot and manufacturing the same under differential of pressures. No. 1,368,682; Feb. 15; v. 283; p. 457.
- Alm, Oscar A., Binford, N. D. Ladder-foot extension. No. 1,377,643; May 10; v. 286; p. 278.
- Alma Manufacturing Company of Baltimore City. (See Kerngood, Allen H., assignor.)
- Almberg, Gustave, Chicago, Ill. Automatic weighing-machine. No. 1,383,279; July 5; v. 288; p. 4.
- Almedia, Jose M., Shoshone, Idaho. Bag-fastener. No. 1,401,854; Dec. 27.
- Almfelt, Karl J., Birmingham, England. Mounting of spindles of grinding-machines, machine-tools, and other machinery. No. 1,364,675; Jan. 4; v. 282; p. 121.
- Almond, Henry, *et al.* (See Clark, John W., assignor.)
- Almstrum, Edwin B., Grand Island, Nebr. Chip-catcher for tools. No. 1,396,909; Nov. 15.
- Almy, William F. (See Perkins, Daniel B., assignor.)
- Alonzo, John, Deborgia, Mont. Railway-switch. No. 1,399,914; Dec. 13.
- Alpern, Maxwell, assignor to American Engineering Company, Philadelphia, Pa. Stoker. No. 1,384,656; July 12; v. 288; p. 340.
- Alpern, Maxwell, assignor to American Engineering Company, Philadelphia, Pa. Dumping apparatus for stokers. No. 1,393,598; Oct. 11.
- Alpert, David A., Beachmont, Mass. Amusement device. No. 1,386,590; Aug. 9; v. 289; p. 195.
- Alpha Products Company. (See Torcellon, Henry, assignor.)
- Alpha Timer and Accessories Company, The. (See Boke-meyer, Charles H., assignor.)
- Alphaero Engines (Foreign Patents) Limited. (See Houston, Percival T., assignor.)
- Alpine, John E., Green Bay, Wis. Carbureter. No. 1,397,711; Nov. 22.
- Alquist, Sven P., Sedalia, Mo., and A. S. Barrows, Chicago, Ill., assignors of one-third to W. L. Kellogg, Detroit, Mich. Freight-car construction. No. 1,379,952; May 31; v. 286; p. 936.
- Alsatian Machine Company. (See Tunstall, Harry, assignor.)
- Alschuler, Ernest, St. Louis, Mo., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Hand-lamp switch. No. 1,384,548; July 12; v. 288; p. 317.



## Alphabetical list of patentees—Continued.

- Alschuler, Ernest, St. Louis, Mo., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Switch. No. 1,389,088; Aug. 30; v. 289; p. 855.
- Alsfasser, Joseph, Chicago, Ill. Damper. No. 1,395,784; Nov. 1.
- Alston Saw & Steel Company. (See Pittman, Reinhart W., assignor.)
- Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Heat-insulated container. No. 1,390,227; Sept. 6; v. 290; p. 134.
- Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Lunch kit. No. 1,393,657; Oct. 11.
- Altgelt, Herman E., New Braunfels, Tex., assignor to Oliver Chilled Plows Works, South Bend, Ind. Wheel-operated lift mechanism. No. 1,378,754; May 17; v. 286; p. 563.
- Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,377,047; May 3; v. 286; p. 127.
- Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,377,048; May 3; v. 286; p. 128.
- Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Wheeled plow. No. 1,377,049; May 3; v. 286; p. 128.
- Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,377,050; May 3; v. 286; p. 128.
- Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,394,524; Oct. 25.
- Altgelt, Rudolph J., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,394,525; Oct. 25.
- Althoff, August W., Oklahoma, Okla. Vehicle-wheel. No. 1,389,285; Aug. 30; v. 289; p. 894.
- Altmayer, Hugo. (See Adams, H. T., and Altmayer.)
- Altmayer, Marvin C. (See Netter, Raphaël, assignor.)
- Altmayer, Marvin C., New York, N. Y. Tire-protector. No. 1,380,625; June 7; v. 287; p. 57.
- Alton, William H., New York, N. Y. Treating calcium carbonate. No. 1,379,157; May 24; v. 286; p. 712.
- Altschuler, Joseph, Los Angeles, Calif. Film-rack. No. 1,369,873; Mar. 1; v. 284; p. 23.
- Altsitzer, Isadore L., and M. Lisnov, Yonkers, N. Y. Gas-heater. No. 1,386,672; Aug. 9; v. 289; p. 211.
- Altwegg, Jean, and D. Ebin, Lyon, assignors to Societe Chimique Des Usines Du Rhone, (anciennement Gilliard P. Menet et Cartier,) Paris, France. Preparation of twice-substituted 2,4-diketo-tetrahydro-oxazols. No. 1,375,949; Apr. 26; v. 285; p. 631.
- Altwegg, Jean, and J. Landrion, Lyon, assignors to Societe Chimique des Usines du Rhone, (Anciennement Gilliard P. Monnet et Cartier,) Paris, France. Manufacture of ethereal salts of ethylenic halogenhydriens. No. 1,393,191; Oct. 11.
- Altwein, Oscar R., Asheville, N. C. Comb. No. 1,388,788; Aug. 23; v. 289; p. 740.
- Aluminum Castings Company, The. (See Bezenberger, F. K., and Rich, assignors.)
- Aluminum Castings Company, The. (See Norton, Allen B., assignor.)
- Aluminum Castings Company, The. (See Parkhurst, Frederic A., assignor.)
- Aluminum Company of America. (See Black, James D., assignor.)
- Aluminum Company of America. (See Blough, Earl, assignor.)
- Aluminum Company of America. (See Frary, Francis C., assignor.)
- Alvey Manufacturing Company. (See Hinchman, George N., assignor.)
- Aluminum Company of America. (See Hoopes, William, assignor.)
- Aluminum Company of America. (See James, Lewis R., assignor.)
- Alvarado Mining and Milling Company. (See Hirt, Jules H., assignor.)
- Alvarez, Antonio, Berkeley, assignor to American Can Company, San Francisco, Calif. Can-soldering machine. No. 1,396,011; Nov. 8.
- Alvarez, Antonio, and B. F. Marshall, San Francisco, Calif., assignors to American Can Company, New York, N. Y. Heater. No. 1,365,074; Jan. 11; v. 282; p. 241.
- Alvey-Ferguson Company. (See Bernheim, Morris U., now by judicial change of name Morris U. Burnham, assignor.)
- Alvin, Alleyne D., assignor of one-half to F. M. Mueller, San Antonio, Tex. Cotton-picking apparatus. No. 1,396,012; Nov. 8.
- Alvord, Clinton, Worcester, Mass. Color-printing mechanism. No. 1,383,253; June 28; v. 287; p. 271.
- Alvord, Clinton, Worcester, Mass. Color-printing mechanism. No. 1,383,589; July 5; v. 288; p. 68.
- Amalgamated Machinery Corporation. (See Yeomans, Lucien I., assignor.)
- Aman, George A., *et al.* (See Becker, Hugo A., assignor.)
- Amann, Charles, assignor of forty-five one-hundredths to G. B. Munn, Warren, Pa. Disinfecting device. No. 1,365,642; Jan. 18; v. 282; p. 391.
- Amann, George W., Jr., Little Black, Wis. Electric motor. No. 1,374,171; Apr. 12; v. 285; p. 195.
- Amans, Louis N., Alberton, Mont. Device for tightening wire cables. No. 1,372,792; Mar. 29; v. 284; p. 788.
- Amato, Joseppe, Ossining, N. Y. Pen or pencil holder. No. 1,392,388; Oct. 4.
- Amberg Steel Company. (See Amberg, Walter E., assignor.)
- Amberg, Walter E., assignor to Amberg Steel Company, Chicago, Ill. Welding-torch. No. 1,373,043; Mar. 29; v. 248; p. 839.
- Amberton, Richard, London, England. Electric controller. No. 1,391,522; Sept. 20; v. 290; p. 550.
- Amberton, Richard, London, England. Electric-circuit controller. No. 1,395,886; Nov. 1.
- Ambler, George A. (See Gilman, James E., assignor.)
- Ambler, Joseph A., Norwich, Conn., and H. D. Gibbs, San Francisco, Calif. Manufacture of naphthalene sulfonic acids. No. 1,390,241; Sept. 6; v. 290; p. 136.
- Ambrose, Charles A., Carson City, Nev. Bog-cutter, grubber, and weeder. No. 1,392,900; Oct. 11.
- Ambrose, Davis, Louisville, Ky. Rail-chair. No. 1,391,658; Sept. 27; v. 290; p. 651.
- Ambrose, Frank E., Los Angeles, Calif., assignor to Union Steam Pump Company, Battle Creek, Mich. Rotary pump. No. 1,390,744; Sept. 13; v. 290; p. 330.
- Ambrose, Jennings G., San Diego, Calif. Airship. No. 1,373,697; Apr. 5; v. 285; p. 61.
- Ambrose, Manfred H., Springfield, Ohio. Wheel. No. 1,381,100; June 14; v. 287; p. 201.
- Ambrose, Nicholas, *et al.* (See Johnston, James A., assignor.)
- Ambrose, William T., Memphis, Tenn. Self-watering flower-pot. No. 1,383,368; July 5; v. 288; p. 23.
- Ambruster, Cornelius. (See Smith, E. W., Galloway, and Ambruster.)
- Ambruster, Cornelius, Roslyn, Pa. Lid-supporter. No. 1,367,681; Feb. 8; v. 283; p. 215.
- Ambühl, Robert, and M. Teitsch, Troy, N. Y. Tire-filler. No. 1,389,806; Sept. 6; v. 290; p. 49.
- Ambursen, Nils F., Pittsburgh, Pa. Hanger for concrete construction. No. 1,374,894; Apr. 19; v. 285; p. 397.
- Ameer, Abraham Y., *et al.* (See Avis, Sam, assignor.)
- Amel, Eugene A., Asbury Park, N. J. Vehicle toy. No. 1,364,471; Jan. 4; v. 282; p. 83.
- Amend, George C., Des Moines, Iowa. Combined cooler display-case and refrigerator. No. 1,397,392; Nov. 15.
- American Abrasive Metals Company. (See Burger, Ellsworth, assignor.)
- American Aero Company. (See Juelson, Edwin, assignor.)
- American Agricultural Chemical Co., The. (See Curran, John J., assignor.)
- American Arch Company. (See Bean, Guy M., assignor.)
- American Arch Company. (See Gee, Norman E., assignor.)
- American Arch Company. (See Himmelright, Raleigh J., assignor.)
- American Arch Company. (See Schuttler, William, assignor.)
- American Arch Company. (See Willett, Alfred H., assignor.)
- American Art Needle Company. (See Pade, G. V., and Neitzel, assignors.)
- American Assembling Machine Company. (See Juengst, Charles A., assignor.)
- American Automatic Lock & Lift Company. (See Bishop, Homer G., assignor.)
- American Automatic Soda Fountain Company. (See Frick, John, assignor.)
- American Automatic Train Control Corporation. (See Quarles, Charles H., assignor.)
- American Automatic Train Control Corporation. (See Stephens, Charles Z., assignor.)
- American Balsa Company. (See Broady, Harry W., assignor.)
- American Balsa Company. (See Lundin, Andreas P., assignor.)
- American Balsa Corporation. (See Mattullath, Alice K., assignor.)
- American Balsa Company. (See Twombly, A. H., Lundin, and Marr, assignors.)
- American Bank Note Company. (See Marquardt, Frank C., assignor.)
- American Bosch Magneto Corporation. (See Kratz, F., and Honold, assignors.)
- American Bosch Magneto Corporation. (See Kratz, Franz, assignor.)
- American Bosch Magneto Corporation. (See Lang, Gustave J., assignor.)
- American Bosch Magneto Corporation. (See Naul, James M., assignor.)
- American Bosch Magneto Corporation. (See Rosner, Adolph, assignor.)
- American Bosch Magneto Corporation. (See Schwarzmänn, W. E., and Toren, assignors.)
- American Bosch Magneto Corporation. (See Schwarzmänn, Wolfgang E., assignor.)
- American Bosch Magneto Corporation. (See Woerner, Edigen, assignor.)
- American Bottle Case Company. (See Wagstaff, Andrew L., assignor.)
- American Brake Company. (See Brown, Thomas R., assignor.)
- American Brake Company, The. (See Burton, Thomas L., assignor.)
- American Brake Company. (See Redford, John E., assignor.)

- American Brake Shoe and Foundry Company, The. (See Jones, Harry, assignor.)  
 American Brake Shoe & Foundry Company, The. (See Thompson, James S., assignor.)  
 American Brass Company, The. (See Coe, James R., assignor.)  
 American Brass Company, The. (See Robbins, William A., assignor.)  
 American Briquet Machine Company. (See Duryea, O. C., and White, assignors.)  
 American Bromine Company. (See Tobler, Henri, assignor.)  
 American Building Products Company. (See Stevens, Fremont C., assignor.)  
 American Button & Fastener Company. (See Elliott, William E., assignor.)  
 American Button & Fastener Co. (See Latham, Albert, assignor.)  
 American Can Company. (See Abbott, Maurice J., assignor.)  
 American Can Company. (See Alvarez, A., and Marshall, assignors.)  
 American Can Company. (See Alvarez, Antonio, assignor.)  
 American Can Company. (See De Feo, Albert, assignor.)  
 American Can Company. (See Eberhart, Felix, assignor.)  
 American Can Company. (See Englund, Axel A., assignor.)  
 American Can Company. (See Fleischer, Paul W., assignor.)  
 American Can Company. (See Foss, Fred G., assignor.)  
 American Can Company. (See Graf, Henry G., assignor.)  
 American Can Company. (See Graham, Charles W., assignor.)  
 American Can Company. (See Gray, James A., assignor.)  
 American Can Company. (See Hothersall, John M., assignor.)  
 American Can Company. (See Johnson, Axel, assignor.)  
 American Can Company. (See Mielziner, William J., assignor.)  
 American Can Company. (See Nowack, Charles H., assignor.)  
 American Can Company. (See Odquist, Victor, assignor.)  
 American Can Company. (See Pryde, Irving A., assignor.)  
 American Can Company. (See Rogers, Arthur R., assignor.)  
 American Can Company. (See Schenck John E., assignor.)  
 American Can Company. (See Sharp, Lee C., assignor.)  
 American Can Company. (See Thornburgh, Ivan D., assignor.)  
 American Car Company. (See Schechter, Bernard, assignor.)  
 American Car and Foundry Company. (See Kitt, Frederick T., assignor.)  
 American Car and Foundry Company. (See Long, Frederick R., assignor.)  
 American Car and Foundry Company. (See McBride, John J., assignor.)  
 American Car and Foundry Company. (See Ostrander, Allen E., assignor.)  
 American Car and Foundry Company. (See Rohlfing, John M., assignor.)  
 American Car and Foundry Company. (See Voss, William, assignor.)  
 American Cash Register Company. (See Paden, William L., assignor.)  
 American Cellulose & Chemical Manufacturing Company. (See Bradley, Charles S., assignor.)  
 American Cellulose and Chemical Manufacturing Company. (See Breggs, J. F., and Palmer, assignors.)  
 American Cellulose and Chemical Manufacturing Company. (See Miles, George W., assignor.)  
 American Chain Company. (See Cole, John W., assignor.)  
 American Chain Company. (See Conner, Edward A., assignor.)  
 American Chain Company. (See Hoover, Thomas A., assignor.)  
 American Chain Company. (See Pancoast, W. G., and Grotenhuis, assignors.)  
 American Chain Company. (See Reyburn, John R., assignor.)  
 American Chain Company. (See Smith, Friend W., assignor.)  
 American Chain Company. (See Smith, William B., assignor.)  
 American Chain Company. (See Stodden, George, assignor.)  
 American Chemical Laboratories. (See Gelbert, Alfred, assignor.)  
 American Cigar Company. (See Schneider, Anthony, assignor.)  
 American Coke & Chemical Company. (See Krippner, John, assignor.)  
 American Coke & Chemical Company. (See Roberts, Arthur, assignor.)  
 American Continuous Retort Company, The. (See Beam, Aron M., assignor.)  
 American Cotton Oil Company, The. (See Cluff, Clarence B., assignor.)  
 American Cotton Oil Company, The. (See Godfrey, Truman M., assignor.)  
 American Cotton Oil Company, The. (See Phillips, Cecil O., assignor.)  
 American Cyanamid Company. (See Washburn, Frank S., assignor.)  
 American Dan Bottle Seal Corporation. (See Nordstrom, Elof, assignor.)  
 American District Steam Company. (See Babcock, Henry J., assignor.)  
 American District Steam Company. (See Barnes, Eugene L., assignor.)  
 American District Telegraph Company. (See Hopkins, Richard M., assignor.)  
 American District Telegraph Company. (See Johnson, C. C., and Hopkins, assignors.)  
 American District Telegraph Company. (See Johnson, Clarence C., assignor.)  
 American Dressler Tunnel Kilns. (See Dressler, Philip d'H., assignor.)  
 American Dressler Tunnel Kilns. (See Kelley, Cott C., assignor.)  
 American Dressler Tunnel Kilns. (See Kupfer, Walter S., assignor.)  
 American Dressler Tunnel Kilns. (See Meehan, Paul A., assignor.)  
 American Dressler Tunnel Kilns. (See Shepard, Arthur C., assignor.)  
 American Dressler Tunnel Kilns. (See Wilputte, Louis, assignor.)  
 American Dressler Tunnel Kilns. (See Zimmerman, Edward G., assignor.)  
 American Electric Co. (See Burns, Peter C., assignor.)  
 American Electric Company. (See Kideney, William W., assignor.)  
 American Electric Tool Company. (See Paulero, Louis, assignor.)  
 American Electrical Heater Company. (See Kuhn, F., and Hand, assignors.)  
 American Electrical Heater Company. (See Kuhn, F., Thomas, and Spless, assignors.)  
 American Engineering Company. (See Alpern, Maxwell, assignor.)  
 American Equipment Company, The. (See Cary, William N., assignor.)  
 American Flexible Bolt Company. (See Frauenheim, J. A., and Etheridge, assignors.)  
 American Flexible Bolt Company. (See Frauenheim, Joseph A., assignor.)  
 American Floor Surfacing Machine Company, The. (See Wolfe, Harry H., assignor.)  
 American Flyer Manufacturing Co. (See Frohne, Albin, assignor.)  
 American Foundry Equipment Company, The. (See Rich, Elmer A., Jr., assignor.)  
 American Foundry & Furnace Company. (See Frost, Nathaniel, assignor.)  
 American Gas Accumulator Company. (See Medén, Elof H., assignor.)  
 American Gas Company of New Jersey, The. (See Warner, Arthur W., assignor.)  
 American Gas Machine Company. (See Hanson, Hans C., assignor.)  
 American Gasaccumulator Company. (See Dalén, Gustaf, assignor.)  
 American Gasaccumulator Company. (See Johansson, George K. V., assignor.)  
 American Hard Rubber Co. (See Boyer, Edwin S., assignor.)  
 American Hard Rubber Co. (See Schelhammer, Herman, assignor.)  
 American Hardware Corporation, The. (See Hurd, Norman B., assignor.)  
 American Hardware Corporation, The. (See Stone, Elmer B., assignor.)  
 American Hoist & Derrick Co. (See Crosby, Oliver, assignor.)  
 American Hominy Company. (See Atkinson, Frederick C., assignor.)  
 American Instrument Company. (See Bennett, George, Sr., assignor.)  
 American Lacing Hook Co. (See Blessington, S. G., and Cosgrove, assignors.)  
 American Lacing Hook Co. (See Havener, Arthur R., assignor.)  
 American Lacing Hook Co. (See Rhodes, Austin D., assignor.)  
 American La France Fire Engine Company. (See Hawley, William G., assignor.)  
 American La France Fire Engine Company. (See Mork, Harry S., assignor.)  
 American Laundry Machine Company. (See Couch, Forrest J., assignor.)  
 American Laundry Machinery Co., The. (See Braley, Charles L., assignor.)  
 American Laundry Machinery Company, The. (See André, William E., assignor.)  
 American Laundry Machinery Company, The. (See Benjamin, D. H., and Link, assignors.)  
 American Laundry Machinery Company, The. (See Braley, C. L., and Link, assignors.)  
 American Laundry Machinery Company, The. (See Braley, C. L., and Prestwich, assignors.)  
 American Laundry Machinery Company, The. (See Braley, C. L., and Waream, assignors.)  
 American Laundry Machinery Company, The. (See Brockett, Bluford W., assignor.)



*Alphabetical list of patentees—Continued.*

- American Laundry Machinery Company. (See Dreher, Albert J., assignor.)  
 American Laundry Machinery Company, The. (See Link, George N., assignor.)  
 American Laundry Machinery Company, The. (See Lyon, Robert V., assignor.) (Reissue.)  
 American Laundry Machinery Company, The. (See Miller, Ernest W., assignor.)  
 American Laundry Machinery Company, The. (See Prestwich, Sydney, assignor.)  
 American Laundry Machinery Company, The. (See Snow, Arthur E., assignor.)  
 American Laundry Machinery Company, The. (See Waream, C. E., and Benjamin, assignors.)  
 American Laundry Machinery Company, The. (See Waream, C. E., and Braley, assignors.)  
 American Laundry Machinery Company. (See Waream, C. E., and Link, assignors.)  
 American Laundry Machinery Company. (See Waream, Charles E., assignor.)  
 American Laundry Machy. Company, The. (See Dann, James E., assignor.)  
 American Lithographic Company. (See Banzett, William H., assignor.)  
 American Machine & Foundry Company. (See Smith, Elberon D., assignor.)  
 American Machine & Manufacturing Company. (See Davidson, Joseph, assignor.)  
 American Machinery Co. (See Lundin, Trued B., assignor.)  
 American Manganese Steel Company. (See Johnson, Frank E., assignor.)  
 American Manganese Steel Company. (See McKee, Walter S., assignor.)  
 American Manganese Steel Company. (See Rorabeck, Claude, assignor.)  
 American Manganese Steel Company. (See Swayze, William W. J., assignor.)  
 American Manganese Steel Company. (See Watts, James R., assignor.)  
 American Marine Equipment Corporation. (See Davis, Howard C., assignor.)  
 American Metal Cap Company. (See Hammer, Charles, assignor.)  
 American Metal Company, The. (See Carstens, Alexander B., assignor.)  
 American Metal Molding Company. (See Johnston, Gustave V., assignor.)  
 American Meter Company. (See Kerstein, Ernest A., assignor.)  
 American Mine Door Company, The. (See Dillon, James F., assignor.)  
 American Mine Door Company, The. (See Vignos, Charles, assignor.)  
 American Molding Machine Company. (See Norcross, William C., assignor.)  
 American Motor Body Company. (See Dryer, George W., assignor.)  
 American Motor Body Company. (See Lambert, A. L., and Bell, assignors.)  
 American Multigraph Company, The. (See Trundle, George T., Jr., assignor.)  
 American Multiplane Company. (See Herrmann, Charles A., assignor.)  
 American Nottingham Process Company. (See Nottingham, C. A., and Tuhey, assignors.)  
 American Novelty Company, The. (See Ferland, Napoleon H., assignor.)  
 American Ocarina and Toy Company. (See Gidlof, Conrad E., assignor.)  
 American Optical Company. (See Arnold, Arthur A., assignor.)  
 American Optical Company. (See Bishop, Fred M., assignor.)  
 American Optical Company. (See Boutelle, William H., assignor.)  
 American Optical Company. (See Bugbee, Lucian W., assignor.)  
 American Optical Company. (See Demers, Arthur E., assignor.)  
 American Optical Company. (See Hamilton, Frederick, assignor.)  
 American Optical Company. (See Hill, Harry W., assignor.)  
 American Optical Company. (See Maynard, Albert E., assignor.)  
 American Optical Company. (See Moffitt, Jeremiah, assignor.)  
 American Optical Company. (See Fellow, Arthur, assignor.)  
 American Optical Company. (See Schumacher, E. L., and Boutell, assignors.)  
 American Optical Company. (See Schumacher, Elmer L., assignor.)  
 American Optical Company. (See Tillyer, E. D., and Kerr, assignors.)  
 American Optical Company. (See Tillyer, Edgar D., assignor.)  
 American Paper Goods Company, The. (See Cooley, Henry B., assignor.)  
 American Paper Goods Company, The. (See Haywood, Harry H., assignor.)  
 American Pasteurizer Company. (See Tait, Godfrey M. S., assignor.)  
 American Perforator Company, The. (See Lyman, Walter H., assignor.)  
 American Photo Player Company. (See Van Valkenburg, Burt R., assignor.)  
 American Piano Company. (See Edmands, Bradford C., assignor.)  
 American Piano Company. (See Russell, Guy M., assignor.)  
 American Platinum Works. (See Engel, Fred J., assignor.)  
 American Potash Corporation. (See Charlton, Harry W., assignor.)  
 American Pretzel Company. (See Robbins, James G., assignor.)  
 American Pretzel Company, The. (See Schumaker, Lorraine J., assignor.)  
 American Radiator Company. (See Howell, Frank B., assignor.)  
 American Radiator Company. (See Landon, Archer A., assignor.)  
 American Radiator Company. (See Stoll, Frank A., assignor.)  
 American Radio & Research Corporation. (See Bush, Vannevar, assignor.)  
 American Road Machinery Company. (See Berry, Earl E., assignor.)  
 American Road Plane. (See Lee Joseph W., assignor.)  
 American Rotary Engine Co. (See Boyer, Alexander B., assignor.)  
 American Safety Device Co. (See Johnston, Frank B., assignor.)  
 American Safety Device Company. (See Pitou, Eugene, assignor.)  
 American Safety Razor Company. (See Kaufman, Joseph, assignor.)  
 American Safety Razor Corporation. (See Behrman, Marcus B., assignor.)  
 American Sales Book Company. (See Bottle, Edward K., assignor.)  
 American Sanitary Refrigeration Co. (See Fischbacher, Philip, assignor.)  
 American Seeding Machine Company. (See Towle, Elmer E., assignor.)  
 American Shale Refining Company, The. (See Wingett, John M., assignor.)  
 American Sheet and Tin Plate Company. (See McElhaney, James R., assignor.)  
 American Sheet and Tin Plate Company. (See Pinkerton, Andrew, assignor.)  
 American Signal Company. (See Harris, Thomas B., assignor.)  
 American Slicing Machine Company, The. (See Hood, E. K., and Wolff, assignors.)  
 American Slicing Machine Company. (See Hood, Ernest K., assignor.)  
 American Smelting & Refining Company. (See Garr, S. R., and Barker, assignors.)  
 American Smelting and Refining Company. (See Garr, Samuel R., assignor.)  
 American Smelting and Refining Company. (See Hall, Arthur E., assignor.)  
 American Smelting and Refining Company. (See Howard, William H., assignor.)  
 American Smelting & Refining Co. (See Linville, Clarence F., assignor.)  
 American Smelting & Refining Co. (See Mathers, Frank C., assignor.)  
 American Smelting and Refining Company. (See Strobel, Roger L., assignor.)  
 American Smelting and Refining Company. (See Thiele, A. A., and Ingersol, assignors.)  
 American Snap Fastener Company. (See Roger, Eugene L., assignor.)  
 American Spike Company. (See Sessler, Marcel K., assignor.)  
 American Standard Tool Company. (See Wiard, Frederick, assignor.)  
 American Steam Conveyor Corporation. (See Nolan, Clyde, assignor.)  
 American Steam Truck Company. (See Jacobsen, Era C., assignor.)  
 American Steel Foundries. (See Carscadin, Charles A., assignor.)  
 American Steel Foundries. (See Darby, Robert F., assignor.)  
 American Steel Foundries. (See Davis, James C., assignor.)  
 American Steel Foundries. (See Floyd, G. G., and Trowbridge, assignors.)  
 American Steel Foundries. (See Floyd, George G., assignor.)  
 American Steel Foundries. (See Jones, Ap Trevor, assignor.)  
 American Steel Foundries. (See Lamont, John A., assignor.)  
 American Steel Foundries. (See Robertson, Alexander, assignor.)  
 American Steel Foundries. (See Trowbridge, William S., assignor.)  
 American Steel Foundries. (See Whitney, Loren L., assignor.)



*Alphabetical list of patentees—Continued.*

- American Steel and Wire Company, The. (See Smith, William J., assignor.)  
 American Steel and Wire Company of New Jersey. (See Febrey, Harold H., assignor.)  
 American Steel and Wire Company of New Jersey, The. (See Heilman, Frank, assignor.)  
 American Steel & Wire Company of New Jersey. (See Phelps, Frederick S., assignor.)  
 American Sterilizer Company. (See Jessup, Albert H., assignor.)  
 American Sterilizer Company. (See Mueller, Paul M., assignor.)  
 American Stove Company. (See Child, Guy B., assignor.)  
 American Stove Company. (See Farnham, Charles F., assignor.)  
 American Stove Company. (See Fuldauer, Frederick L., assignor.)  
 American Stove Company. (See Meacham, B. E., and Munzner, assignors.)  
 American Stove Company. (See Ruppel, Henry, assignor.)  
 American Stove Company. (See Stockstrom, Louis, assignor.)  
 American Stove Company, The. (See Weaver, Charles E., assignor.)  
 American Tag Company. (See Swett, Arthur H., assignor.)  
 American Tap Bush Co. (See Rice, Frank E., assignor.)  
 American Tar Company. (See Price, Charles P., assignor.)  
 American Tar Products Company. (See Puening, Franz, assignor.)  
 American Taximeter Company, The. (See Karich, Rudolf R., assignor.)  
 American Telephone and Telegraph Company. (See Arnold, O. M., and Toomey, assignors.)  
 American Telephone and Telegraph Company. (See Blackwell, Otto B., assignor.)  
 American Telephone and Telegraph Company. (See Blauvelt, William G., assignor.)  
 American Telephone and Telegraph Company. (See Clark, A. B., and Demarest, assignors.)  
 American Telephone and Telegraph Company. (See Clark, Alva B., assignor.)  
 American Telephone and Telegraph Company. (See Crisson, George, assignor.)  
 American Telephone and Telegraph Company. (See Demarest, C. A., Clark, and Crisson, assignors.)  
 American Telephone and Telegraph Company. (See Demarest, C. S., and Davidson, assignors.)  
 American Telephone and Telegraph Company. (See Demarest, C. S., and Shackleton, assignors.)  
 American Telephone and Telegraph Company. (See Demarest, C. S., and Shoffstall, assignors.)  
 American Telephone and Telegraph Company. (See Demarest, Charles S., assignor.)  
 American Telephone and Telegraph Company. (See Englund, Carl R., assignor.)  
 American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)  
 American Telephone and Telegraph Company. (See Gherardi, Bancroft, assignor.)  
 American Telephone and Telegraph Company. (See Hamilton, Baxter P., assignor.)  
 American Telephone and Telegraph Company. (See Harden, William H., assignor.)  
 American Telephone and Telegraph Company. (See Hitchcock, Harry W., assignor.)  
 American Telephone and Telegraph Company. (See McIlwain, H. A., Walton, and Wright, assignors.)  
 American Telephone and Telegraph Company. (See Kuhn, George W., assignor.)  
 American Telephone & Telegraph Company. (See Loynes, O. H., and Rose, assignors.)  
 American Telephone and Telegraph Company. (See Martin, William H., assignor.)  
 American Telephone and Telegraph Company. (See Matthews, Edgar M., assignor.)  
 American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)  
 American Telephone and Telegraph Company. (See Osborne, Harold S., assignor.)  
 American Telephone and Telegraph Company. (See Osborne, Harold S., and Martin, assignors.)  
 American Telephone and Telegraph Company. (See Parker, R. D., and Hamilton, assignors.)  
 American Telephone and Telegraph Company. (See Pierce, Ralph E., assignor.)  
 American Telephone and Telegraph Company. (See Post, Arthur W., assignor.)  
 American Telephone and Telegraph Company. (See Potts, Louis M., assignor.)  
 American Telephone and Telegraph Company. (See Parker, Ralzemond D., assignor.)  
 American Telephone and Telegraph Company. (See Rhodes, William A., assignor.)  
 American Telephone and Telegraph Company. (See Rhodes, William A., assignor.)  
 American Telephone and Telegraph Company. (See Shackleton, Samuel P., assignor.)  
 American Telephone and Telegraph Company. (See Shanck, Roy B., assignor.)  
 American Telephone and Telegraph Company. (See Sked, Norman S., assignor.)  
 American Telephone and Telegraph Company. (See Smith, Temple C., assignor.)  
 American Telephone and Telegraph Company. (See Thompson, George K., assignor.)  
 American Telephone and Telegraph Company. (See Toomey, J. F., and Demarest, assignors.)  
 American Telephone and Telegraph Company. (See Toomey, J. F., and Spencer, assignors.)  
 American Telephone and Telegraph Company. (See Toomey, John F., assignor.)  
 American Telephone & Telegraph Company. (See Watson, Edward F., assignor.)  
 American Thermo-Ware Company. (See Marshutz, Herbert S., assignor.)  
 American Thermometer Company. (See Bolin, Charles D., assignor.)  
 American Thermophone Company. (See Breckenridge, Francis C., assignor.)  
 American Thermophone Company. (See De Lange, P., and van Lynden, assignors.)  
 American Thermophone Company. (See Gray, Budd D., assignor.)  
 American Thermophone Company. (See Van Lynden, R. A., Baron, assignor.)  
 American Thermophone Company. (See Van Lynden, Robert A. B., assignor.)  
 American Thermophone Company. (See Van Doorn, Anthonius M., assignor.)  
 American Thread Company, The. (See Blakeley, Albert E., assignor.)  
 American Tobacco Company, The. (See Fogde, M., and Southwick, assignors.)  
 American Tobacco Company. (See Hill, George W., assignor.)  
 American Tool & Machine Company. (See Goddard, G. N., and Smith, assignors.)  
 American Tool Works Company, The. (See Sosa, Augustus M., assignor.)  
 American Tractor, Foundry and Manufacturing Company. (See Jacobs, Winfred, assignor.)  
 American Transformer Company. (See Schermerhorn, John L., assignor.)  
 American Trust Company, trustee. (See Nicoson, Lemuel C., assignor.) (Reissue.)  
 American Type Founders Company. (See Marder, Clarence C., assignor.)  
 American Universal Implement Company. (See Broder, Lloyd L., assignor.)  
 American Valve & Meter Company, The. (See Anderson, Frank C., assignor.)  
 American Vulcanized Fibre Co. (See Pierce, James F., assignor.)  
 American Warp Drawing Machine Company. (See Lea, Charles, assignor.)  
 American Water Supply Company of New England. (See Bahlman, George J., assignor.)  
 American Well Works, The. (See Chapman, Matthew T., assignor.)  
 American Well Works, The. (See Kerr, Charles V., assignor.)  
 American Well Works, The. (See Sperry, John B., assignor.)  
 American Whaley Engine Company. (See Whaley, William B. S., assignor.)  
 American Wheel Company. (See Boswell, Fletcher O., assignor.)  
 American Wire Mold Company. (See Petersen, Anker, assignor.)  
 American Wood Rim Company, The. (See Snyder, O. K., and Kenrich, assignors.)  
 American Woodworking Machinery Company. (See Clement, Frank H., assignor.)  
 American Wood Working Machinery Company. (See McMichael, James D., assignor.)  
 American Writer Paper Company. (See Taylor, George G., assignor.)  
 American Writing Paper Company. (See Harrigan, Herman R., assignor.)  
 American Zinc Lead & Smelting Company. (See Pederson, John E., assignor.)  
 Amerman, Ralph A., assignor to Scranton Glass Instrument Company, Scranton, Pa. Syringe-hydrometer. No. 1,390,858; Sept. 13; v. 290; p. 352.  
 Ames, Adelbert, Jr. (See Ames, Butler, assignor.)  
 Ames, Adelbert, Jr., Tewksbury, Mass. Headlight. No. 1,367,682; Feb. 8; v. 283; p. 215.  
 Ames, Adelbert, Jr., Tewksbury, Mass. Projection apparatus. No. 1,376,913; May 3; v. 286; p. 102.  
 Ames, Apollos P., Tacoma, Wash. Fountain-syringe. No. 1,374,799; Apr. 12; v. 285; p. 316.  
 Ames, Bradford L., Boston, assignor to T. H. Ames, Barnstable, Mass. Smoke-preventer. No. 1,397,155; Nov. 15.  
 Ames, Butler, assignor to A. Ames, Jr., Lowell, Mass. Adjustable lamp and support for headlights. No. 1,369,722; Feb. 22; v. 283; p. 698.  
 Ames, George P., Derry, N. H. Corn-popper. No. 1,382,592; June 21; v. 287; p. 542.  
 Ames, Shirley L., New York, N. Y. Citrus-juice powder. No. 1,373,933; Apr. 5; v. 285; p. 108.  
 Ames, Thankful H. (See Ames, Bradford L., assignor.)  
 Amesbury Brass & Foundry Company. (See Miller, William, assignor.)



## Alphabetical list of patentees—Continued.

- Amesbury Seat Manufacturing Company. (See Lunt, F. L. and Hatch, assignors.)
- Amici, Domenico, Woodland, Calif. Aeroplane. No. 1,373,934; Apr. 5; v. 285; p. 108.
- Amigues, Albert, Paris, France. Sighting apparatus for firearms, and particularly for machine-guns. No. 1,376,992; May 3; v. 286; p. 117.
- Amiguet, Charles, assignor to Duplexalite Corporation, New York, N. Y. Lighting-fixture. No. 1,371,015; Mar. 8; v. 284; p. 285.
- Amiot, Felix, Colombes, France. Arrangement or grouping of the parts of the transmission-gear in motor-cycles and gear-case therefor. No. 1,378,309; May 17; v. 286; p. 478.
- Amis, Lewis A., Muskogee, Okla. Shaving-cup. No. 1,369,766; Mar. 1; v. 284; p. 3.
- Amis, Lewis A., Muskogee, Okla. Lather-cup. No. 1,369,767; Mar. 1; v. 284; p. 3.
- Amie, Thomas, Minneapolis, Minn. Attachment for notebooks. No. 1,371,459; Mar. 15; v. 284; p. 434.
- Ammann, Albert H., Peotone, Ill. Cushion-heel. No. 1,373,287; Mar. 29; v. 284; p. 887.
- Ammann-Haberstich, Ernst, Basel, Switzerland. Machine for drying strips. No. 1,400,508; Dec. 20.
- Ammon, Conrad, Jr., Cincinnati, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,370,621; Mar. 8; v. 284; p. 210.
- Amodeo, Joseph, Brooklyn, N. Y. Sash-operated circuit-closer. No. 1,381,956; June 21; v. 287; p. 422.
- Amoedo, Tomás F., Buenos Aires, Argentina. Device for marking animals and the like. No. 1,378,166; May 17; v. 286; p. 451.
- Amon, Glenn R., Helena, assignor to The Davey Tree Expert Company, Kent, Ohio. Tree-bracing device. No. 1,367,906; Feb. 8; v. 283; p. 258.
- Amonsens, George H. (See Amonsens Gilbert and G. H.)
- Amonsens, Gilbert, Minneapolis, Minn. Traction-engine. No. 1,372,635; Mar. 22; v. 284; p. 716.
- Amonsens, Gilbert and G. H., Minneapolis, Minn. Front-axle device. No. 1,375,439; Apr. 19; v. 285; p. 501.
- Amonsens, Gilbert and G. H., Minneapolis, Minn. Clutch. No. 1,384,225; July 12; v. 288; p. 249.
- Amos, Frank M., assignor to Wheeling Tile Company, Wheeling, W. Va. Insulator. No. 1,376,307; Apr. 26; v. 285; p. 699.
- Ansden, Eugene C., Boston, Mass. Universal table. No. 1,394,526; Oct. 25.
- Amsler-Morton Company. (See Geer, Paul L., assignor.)
- Amsler, Walter O., Edgewood, Pa. Means for preparing and conveying pulverulent material. No. 1,364,603; Jan. 4; v. 282; p. 107.
- Amsler, Walter O., Edgewood, Pa. Fuel-burner. No. 1,369,602; Feb. 22; v. 283; p. 674.
- Amsler, Walter O., Edgewood, Pa. Pulverized-fuel feeder. No. 1,370,872; Mar. 8; v. 284; p. 257.
- Amsterdam Broom Company. (See Van Voast, George K., assignor.)
- Amstutz, Amos A., Bluffton, Ohio. Posthole-digging machine. No. 1,381,052; June 7; v. 287; p. 140.
- Amuedo, Antonio J., New Orleans, La. Lock for motor-vehicles. No. 1,365,215; Jan. 11; v. 282; p. 269.
- Anable, Frederick S., Brookline, assignor to National Binding Machine Company, Boston, Mass. Strip-serving device. No. 1,386,675; Aug. 9; v. 289; p. 212.
- Anable, Frederick S., Brookline, assignor to National Binding Machine Company, Boston, Mass. Strip-serving device. No. 1,393,002; Oct. 11.
- Anaconda Lead Products Company. (See Sperry, Elmer A., assignor.)
- Anagnostopoulos, Theodore D., Opelousas, assignor of one-half to J. M. Fox, New Orleans, La. Box-lid holder. No. 1,388,147; Aug. 16; v. 289; p. 556.
- Anchor Cap & Closure Corporation. (See Dinsmoor, John L., assignor.)
- Anchor Cap & Closure Corporation. (See Durkee, Chauncey H., assignor.)
- Anchor Cap & Closure Corporation. (See Luhrmann, George W., assignor.)
- Anchor Cap & Closure Corporation. (See Ramsey, George, assignor.)
- Anchor Cap & Closure Corporation. (See Scofield, Edgar, assignor.)
- Anchor Cap & Closure Corporation. (See Townsend, Harry E., assignor.)
- Anchor Cap & Closure Corporation. (See White, William F., assignor.)
- Anchor Cap & Closure Corporation. (See Wieland, Frederick G., assignor.)
- Anchors, George R., St. Louis, Mo. Making nitrostarch and the like. No. 1,376,598; May 3; v. 286; p. 42.
- Ancona, John F., Rochester, N. Y. Slitting and winding machine. No. 1,371,770; Mar. 15; v. 284; p. 494.
- And. H. Kiaer & Co., Ltd., of Norway. (See Strehlenert, Robert W., assignor.)
- Ander, August, and F. T. McGuire, Seattle, Wash. Manufacturing tailors' chalk. No. 1,384,375; July 12; v. 288; p. 281.
- Anders, Charles F. P., Urbana, Ill., assignor to E. L. Greenwald, Washington, D. C. Vacuum-bottle. No. 1,387,337; Aug. 9; v. 289; p. 345.
- Andersen, Albert, assignor to Automatic Electric Company, Chicago, Ill. Call-sending device. No. 1,391,442; Sept. 20; v. 290; p. 534.
- Andersen, Alexander E., Bristol, Va. Pencil or pen attachment. No. 1,401,454; Dec. 27.
- Andersen, Anders P. (See Jensen, O. P., and Andersen.)
- Andersen, Christen, Hurup, Denmark. Combined wrench and pipe-tongs. No. 1,395,785; Nov. 1.
- Andersen, Lauritz W., Waterbury, Conn. Ceiling-light. No. 1,380,131; May 31; v. 286; p. 970.
- Andersen, Wilhelm G., and J. H. Brevig, Christiania, Norway. Coupling-sleeve for tubular bodies. No. 1,380,175; May 31; v. 286; p. 978.
- Anderson, Albert, Miles City, Mont. Advertising device and paper-holder. No. 1,392,811; Oct. 4.
- Anderson, Albert H., assignor to Norton Company, Worcester, Mass. Abrasive and refractory article and producing same. No. 1,364,849; Jan. 4; v. 282; p. 154.
- Anderson, Albert J., Ashtabula, Ohio. Heat-deflector and draft-creating device. No. 1,391,291; Sept. 20; v. 290; p. 503.
- Anderson, Albert J., La Crosse, Wis. Tractor-coupling. No. 1,400,402; Dec. 13.
- Anderson, Albert S., assignor to G. Waldref, St. Paul, Minn. Hydraulic ram. No. 1,384,421; July 12; v. 288; p. 291.
- Anderson, Albin E., Oakmont, Pa. Twister-head for wire-rope machines. No. 1,365,442; Jan. 11; v. 282; p. 313.
- Anderson, Albin E., Oakmont, Pa. Adjustable swift. No. 1,401,123; Dec. 27.
- Anderson, Albin E., Oakmont, assignor to Pittsburgh Wire Rope Company, Verona, Pa. Machine for making wire rope. No. 1,378,932; May 24; v. 286; p. 670.
- Anderson, Albin E., Oakmont, assignor of two-thirds to E. M. Verner and J. W. Macfarlane, Pittsburgh, Pa. Wire-rope machine. No. 1,401,122; Dec. 27.
- Anderson, Algoth N., Leal, N. D. Loader. No. 1,381,053; June 7; v. 287; p. 140.
- Anderson, Anders, Dunellen, N. J. Printing-press. No. 1,395,076; Oct. 25.
- Anderson, Anders G., Stoneham, Mass. Bunch-holding device for hose-supporters. No. 1,401,099; Dec. 20.
- Anderson, Andrew, and C. Brown, Rock Springs, Wyo. Demountable-rim contractor. No. 1,385,353; July 26; v. 288; p. 639.
- Anderson, Andrew G., Wollaston, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,115; Aug. 9; v. 289; p. 301.
- Anderson, Andrew P., Narberth, Pa. Garden-tool. No. 1,364,825; Jan. 4; v. 282; p. 150.
- Anderson, Anton G. H., Springfield, Ill. Speed-regulator for windmills. No. 1,397,713; Nov. 22.
- Anderson, Arthur E., Oak Park, Ill. Tab-attaching device for laces. No. 1,399,915; Dec. 13.
- Anderson, Arthur H., and R. T. Brackett, Chicago, Ill.; said Anderson assignor to said Brackett. Draft instrument and the like. No. 1,369,314; Feb. 22; v. 283; p. 618.
- Anderson, August E., Montclair, N. J. Contact for spark-gaps. No. 1,401,231; Dec. 27.
- Anderson, August P., assignor to Anderson-Rees Refrigerating Machine Co., Chicago, Ill. Compressor. No. 1,368,598; Feb. 15; v. 283; p. 441.
- Anderson, August W. (See Olson, Olof W., assignor.)
- Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
- Anderson, Bert, Granger, Tex. Gearing. No. 1,390,262; Sept. 13; v. 290; p. 233.
- Anderson, Calvin M., Columbus, Ohio. Machine for producing spiral puffs. No. 1,369,723; Feb. 22; v. 283; p. 698.
- Anderson, Carl E., Worcester, Mass. Door-latch. No. 1,372,000; Mar. 22; v. 284; p. 595.
- Anderson, Carl E., Worcester, Mass. Door-latch. No. 1,372,923; Mar. 29; v. 284; p. 815.
- Anderson, Carl E., Worcester, Mass. Lock. No. 1,389,339; Aug. 30; v. 289; p. 905.
- Anderson, Carl E., Maywood, Ill. Air-pump. No. 1,395,546; Nov. 1.
- Anderson, Carl E., Maywood, Ill. Gas-pump for refrigerating systems. No. 1,395,547; Nov. 1.
- Anderson, Carl E., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental impression-tray. No. 1,369,768; Mar. 1; v. 284; p. 3.
- Anderson, Carl E., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,385,296; July 19; v. 288; p. 552.
- Anderson, Carl G., Boston, and J. E. Swanson, Jamaica Plain, Mass. Process and apparatus for producing cutting-dies. No. 1,365,075; Jan. 11; v. 282; p. 242.
- Anderson, Carl L., et al. (See Swenson, Carl E., assignor.)
- Anderson, Carl L., and C. E. Swenson, Rockford, Ill. Method of and apparatus for hobbing teeth on revolving blanks. No. 1,380,286; May 31; v. 286; p. 999.
- Anderson, Carl M., Batavia, Ill. Mold for curing and forming blow-out patches. No. 1,372,215; Mar. 22; v. 284; p. 636.
- Anderson, Carl O., and S. Nelsen, Spokane, Wash. Traffic-signal. No. 1,369,951; Mar. 1; v. 284; p. 37.
- Anderson, Carl O., Springfield, assignor, by mesne assignments, to Thorne Brothers Incorporated, Chicago, Ill. Lubricating-bearing. No. 1,369,211; Feb. 22; v. 283; p. 599.
- Anderson, Charles E., Philadelphia, Pa. Map. No. 1,381,957; June 21; v. 287; p. 422.



- Anderson, Charles G. Jr., Buffalo, N. Y. Priming-cup. No. 1,399,596; Dec. 6.
- Anderson, Charles H., assignor of one-third to C. H. Anderson, one-third to J. T. Hughes, and one-third to E. L. Bozarth, Oklahoma, Okla. Polishing-brush. No. 1,398,772; Nov. 29.
- Anderson, Charles J., Fort Bragg, Calif. Reel-holder. No. 1,366,340; Jan. 25; v. 282; p. 571.
- Anderson, Charles W., *et al.* (See Cooper, Daniel R., assignor.)
- Anderson, Charles W., Brooklyn, N. Y. Control means for drive mechanism. No. 1,387,445; Aug. 16; v. 289; p. 417.
- Anderson, Christopher, Harrison, N. J. Pulley-line support. No. 1,371,539; Mar. 15; v. 284; p. 450.
- Anderson, Clarence A., Abilene, Kans. Electrical testing system and apparatus. No. 1,384,734; July 19; v. 288; p. 437.
- Anderson, Claus E., Superior, Wis. Auto-treadmill. No. 1,393,600; Oct. 11.
- Anderson, David E., Spokane, Wash. Screwdriver. No. 1,366,341; Jan. 25; v. 282; p. 571.
- Anderson, Duncan M., Toronto, Ontario, Canada. Artificial hand. No. 1,377,956; May 10; v. 286; p. 359.
- Anderson, E. D., Inc. (See Anderson, Ernest D., assignor.)
- Anderson, Edward L., assignor to Standard Button Company, Attleboro, Mass. Soft-collar holder. No. 1,372,329; Mar. 22; v. 284; p. 658.
- Anderson, Edward L. and L. A., assignor to R. & G. Company, Attleboro, Mass. Pencil. No. 1,398,955; Dec. 6.
- Anderson, Edward V., Monessen, assignor of one-half to C. E. Golden, Crafton, Pa. Pilot-valve. No. 1,370,260; Mar. 1; v. 284; p. 96.
- Anderson, Edwin O., Jersey City, N. J. Switch. No. 1,398,533; Nov. 29.
- Anderson Electric & Equipment Co. (See Anderson, Ernest G. K., assignor.)
- Anderson Electric & Equipment Co. (See Grigsby, Bertram J., assignor.)
- Anderson, Elmer W. (See Hutchinson, E. C., and Anderson.)
- Anderson, Emil F., Chicago, Ill., assignor to International Harvester Company. Straw-rack. No. 1,388,912; Aug. 30; v. 289; p. 819.
- Anderson, Ernest D., New York, N. Y. Machine for making and labeling packages. No. 1,368,780; Feb. 15; v. 283; p. 476.
- Anderson, Ernest D., assignor to E. D. Anderson, Inc., New York, N. Y. Cartoning-machine. No. 1,376,499; May 3; v. 286; p. 23.
- Anderson, Ernest G. K., assignor to Anderson Electric & Equipment Co., Chicago, Ill. Lamp focal adjustment. No. 1,389,571; Sept. 6; v. 290; p. 3.
- Anderson Forge & Machine Company. (See Keepports, Harry H., assignor.)
- Anderson, Frank, Oakland, Calif. Combination-padlock. No. 1,401,865; Dec. 27.
- Anderson, Frank C., Cincinnati, Ohio. Switch-stand. No. 1,389,730; Sept. 6; v. 290; p. 34.
- Anderson, Frank C., assignor to The American Valve & Meter Company, Cincinnati, Ohio. Double automatic latch for switch-stands. No. 1,396,946; Nov. 15.
- Anderson, Fred. (See Watkins, J. M., and Anderson.)
- Anderson, Fred H., Camden, N. J. Combined rake and fork. No. 1,374,800; Apr. 12; v. 285; p. 316.
- Anderson, Fred H., Paterson, N. J. Game. No. 1,395,786; Nov. 1.
- Anderson, Frederick E. (See Rhodes, W. A., and Anderson.)
- Anderson, George A., Ensley, Ala. Saw-guard. No. 1,381,612; June 14; v. 287; p. 296.
- Anderson, George A., assignor of one-eighth to R. T. Taper, one-eighth to V. H. Waggoner, and one-eighth to W. M. Mercer, Santa Rita, N. Mex. Graduated-release device for air-brakes. No. 1,396,392; Nov. 8.
- Anderson, George G. (See Koken, W. F., and Anderson.)
- Anderson, George H., Battle Creek, Mich. Centrifugal pump. No. 1,379,380; May 24; v. 286; p. 755.
- Anderson, George W., Elizabeth, N. J. Vehicle work-stand. No. 1,398,057; Nov. 22.
- Anderson, Gilbert V., Philadelphia, Pa. Gun mounts and control. No. 1,387,678; Aug. 16; v. 289; p. 464.
- Anderson, Gustaf, New York, N. Y. Device for launching aeroplanes from ships. No. 1,384,036; July 12; v. 288; p. 211.
- Anderson, Gustaf, Atlin, British Columbia, Canada. Saw-fitting tool. No. 1,392,261; Sept. 27; v. 290; p. 773.
- Anderson, Gustaf M., assignor to Associated Manufacturers Company, Waterloo, Iowa. Centrifugal-separator disk. No. 1,365,643; Jan. 18; v. 282; p. 391.
- Anderson, Gustaf M., assignor to Associated Manufacturers Company, Waterloo, Iowa. Oiling system. No. 1,387,637; Aug. 16; v. 289; p. 456.
- Anderson, Hans C., Minneapolis, Minn. Cot for automobiles. No. 1,377,801; May 17; v. 286; p. 419.
- Anderson, Harold N., assignor to The Anderson Patents Company, Cleveland, Ohio. Apparatus for making gears. No. 1,377,175; May 10; v. 286; p. 207.
- Anderson, Harold N., assignor to The Anderson Patents Company, Cleveland, Ohio. Forged shrouded gear. No. 1,377,176; May 10; v. 286; p. 208.
- Anderson, Harold N., assignor to The Anderson Patents Company, Cleveland, Ohio. Making gears. No. 1,377,177; May 10; v. 286; p. 208.
- Anderson, Harry G. (See Erb, Lanious P., assignor.)
- Anderson, Harry G., Chicago, Ill. Traction device. No. 1,378,083; May 17; v. 286; p. 435.
- Anderson, Harry O., assignor to Norton Company, Worcester, Mass. Treatment of granular aluminous materials. No. 1,400,495; Dec. 13.
- Anderson, Harry T., Butler, assignor to The Standard Steel Car Co., Pittsburgh, Pa. Crosstie or stiffener for steel cars. No. 1,365,216; Jan. 11; v. 282; p. 269.
- Anderson, Harry T., Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Cane-car. No. 1,380,176; May 31; v. 286; p. 979.
- Anderson, Harry T., Butler, Pa., assignor to Harry Vissering and Company, Chicago, Ill. Manufacture of drawbar-yokes. No. 1,401,748; Dec. 27.
- Anderson, Harry T., Butler, Pa., assignor to H. Vissering and Company, Chicago, Ill. Railway draft-gear yoke. No. 1,401,749; Dec. 27.
- Anderson, Henning, Chicago, Ill. Wire-twisting device. No. 1,396,013; Nov. 8.
- Anderson, Henry D., Filer, Idaho. Rotary internal-combustion motor. No. 1,400,255; Dec. 13.
- Anderson, Henry J. See Evensta, E. G., and Anderson.)
- Anderson, Henry E. W., *et al.*, executors. (See Thomas, H. S., Davies, and Thomas.)
- Anderson, Holger, *et al.* (See Packwood, Charles W., assignor.)
- Anderson, Hugh C., Detroit, Mich. Automobile-signal. No. 1,391,523; Sept. 20; v. 290; p. 551.
- Anderson, Jalmer, Burkburnett, Tex. Valve structure. No. 1,389,474; Aug. 30; v. 289; p. 932.
- Anderson, James A., Chickasha, Okla. Portable motor. No. 1,375,270; Apr. 19; v. 285; p. 469.
- Anderson, James A., Chickasha, Okla. Blowtorch. No. 1,383,276; July 5; v. 288; p. 3.
- Anderson, James B. (See Allen, C. H., and Anderson.)
- Anderson, James B., and C. H. Allen, assignors to Pumpless Blow Torch Company, Pittsburgh, Pa. Blow-torch. No. 1,364,972; Jan. 11; v. 282; p. 223.
- Anderson, James B., Shaler township, Allegheny county; J. B. Garner, Pittsburgh, and G. A. Shaner, Butler, Pa. Liquid-fuel burner. No. 1,384,985; July 19; v. 288; p. 489.
- Anderson, James C., Rutherford, N. J., assignor to Varley Duplex Magnet Company. Winding-machine. No. 1,368,536; Feb. 15; v. 283; p. 429.
- Anderson, James C., Rutherford, N. J., assignor to Varley Duplex Magnet Company. Circuit breaker and controller. No. 1,400,929; Dec. 20.
- Anderson, James L., Bayonne, N. J., assignor to Davis-Bournoville Company, New York, N. Y. Torch-adjuster. No. 1,371,540; Mar. 15; v. 284; p. 450.
- Anderson, James W., New York, N. Y. Manifolding device. No. 1,390,263; Sept. 13; v. 290; p. 233.
- Anderson, James W., San Francisco, Calif., assignor to Anderson Manufacturing Co. Multiple-view camera. No. 1,369,515; Feb. 22; v. 283; p. 657.
- Anderson, John, St. Louis, Mo. Attaching device for shoe-heels. No. 1,383,277; July 5; v. 288; p. 3.
- Anderson, John, Seattle, Wash. Truck attachment for automobiles. No. 1,399,597; Dec. 6.
- Anderson, John G., Pyshet, Wash. Rope-grip. No. 1,367,762; Feb. 8; v. 283; p. 231.
- Anderson, John H., Havana, N. D. Safety-pin. No. 1,383,054; June 28; v. 287; p. 684.
- Anderson, John J., San Francisco, Calif. Trawling apparatus. No. 1,381,265; June 14; v. 287; p. 231.
- Anderson, John N., Chicago, Ill. Phonograph. No. 1,389,089; Aug. 30; v. 289; p. 855.
- Anderson, Julius P. (See Lagerquist, H., and Anderson.)
- Anderson, K. E. (See Shull, Elbert W., assignor.)
- Anderson, Kristoffer A., Hartford, Conn. Means for securing dies in forging apparatus. No. 1,389,286; Aug. 30; v. 289; p. 894.
- Anderson, L., Andrew, Kasson, Minn. Piston-vice. No. 1,368,683; Feb. 15; v. 283; p. 457.
- Anderson, Lars, Chicago, Ill. Mechanical movement. No. 1,392,389; Oct. 4.
- Anderson, Lars, Chicago, Ill. Pump. No. 1,392,390; Oct. 4.
- Anderson, Leo M., New York, N. Y. Gazing-bowl. No. 1,388,789; Aug. 23; v. 289; p. 740.
- Anderson, Leonard A., assignor of one-half to R. Moss, Los Angeles, Calif. Jack. No. 1,386,220; Aug. 2; v. 289; p. 52.
- Anderson, Lou B., Celina, Tex. Fuse-block. No. 1,376,392; May 3; v. 286; p. 3.
- Anderson, Louis A. (See Anderson, Edward L. and L. A.)
- Anderson Manufacturing Co. (See Anderson, James W., assignor.)
- Anderson, Martin E., Takoma Park, Md. Safety cranking device for gas-engines. No. 1,369,952; Mar. 1; v. 284; p. 37.
- Anderson, Maurice, Cranston, R. I., assignor to V. E. Black Company, Garment-fastener. No. 1,386,592; Aug. 9; v. 289; p. 195.
- Anderson, Merritt H., Antioch, Calif. Aeroplane propulsion means. No. 1,395,695; Nov. 1.
- Anderson, Neal H. (See Newton, D. L., and Anderson.)



## Alphabetical list of patentees—Continued.

- Anderson, Niles H., North Easton, Mass. Toy vehicle. No. 1,367,345; Feb. 1; v. 283; p. 92.
- Anderson, Nils, Yutan, Nebr. Clutch-lock. No. 1,383,278; July 5; v. 288; p. 4.
- Anderson, Nils, Yutan, Nebr. Top and fender for tractors. No. 1,384,735; July 19; v. 288; p. 437.
- Anderson, Norman, Duluth, Minn. Cylinder-reamer. No. 1,395,245; Nov. 1.
- Anderson, Olaf. (See Griffiths, R. T., Anderson, and Goodwin.)
- Anderson, Oliver H. P. S., Los Angeles, Calif. Tire construction. No. 1,365,076; Jan. 11; v. 282; p. 242.
- Anderson, Oscar, *et al.* (See Carlson, John, assignor.)
- Anderson Patents Company, The. (See Anderson, Harold N., assignor.)
- Anderson, Per A., New York, N. Y. Air-valve for carbureters. No. 1,376,063; Apr. 26; v. 285; p. 652.
- Anderson, Per A., New York, N. Y. Piston-ring. No. 1,392,614; Oct. 4.
- Anderson, Per G., Elkhart, Ind. Wheel. No. 1,370,723; Mar. 8; v. 284; p. 230.
- Anderson, Raymond M., assignor to G. M. Holley, Detroit, Mich. Carburetor float mechanism. No. 1,380,032; May 31; v. 286; p. 951.
- Anderson, Raymond M., assignor to G. M. Holley, Detroit, Mich. Carburetor. No. 1,390,477; Sept. 13; v. 290; p. 275.
- Anderson, Raymond T., assignor of one-half to W. W. Smith, Dodge City, Kans. Overtime chart. No. 1,400,652; Dec. 20.
- Anderson-Rees Refrigerating Machine Co. (See Anderson, August P., assignor.)
- Anderson, Robert, New York, N. Y. Link jewelry. No. 1,386,591; Aug. 9; v. 289; p. 195.
- Anderson, Robert R., Rockford, Ill. Spark-plug. No. 1,365,143; Jan. 11; v. 282; p. 255.
- Anderson, Robert J., Sidney, Ohio. Washing-machine tub. No. 1,389,090; Aug. 30; v. 289; p. 855.
- Anderson, Robert J., Sidney, Ohio. Washing-machine. No. 1,389,091; Aug. 30; v. 289; p. 855.
- Anderson, Robert J., El Paso, Tex., assignor to International Fuel Conservation Co., Phoenix, Ariz. Reduction of iron and lead ores. No. 1,381,689; June 14; v. 287; p. 311.
- Anderson, Robert J., El Paso, Tex., assignor to International Fuel Conservation Co., Phoenix, Ariz. Converting sodium sulfate to sodium sulfid. No. 1,397,497; Nov. 22.
- Anderson, Robert W., Liverpool, England. Weather screen or hood for motor-cars. No. 1,393,734; Oct. 18.
- Anderson, Thomas W., Camden Point, Mo., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Pressure-gage. No. 1,400,848; Dec. 20.
- Anderson, Victor A. (See Fritz, Otto R., assignor.)
- Anderson, Victor A., Elmwood Park, Ill. Wrench. No. 1,400,134; Dec. 13.
- Anderson, Wilhelmine, West New York, N. J. Convertible trunk. No. 1,374,346; Apr. 12; v. 285; p. 228.
- Anderson, William, Helensburgh, Scotland. Treating coal-tar and the like. No. 1,396,003; Nov. 8.
- Anderson, William, and E. R. Hartman, Trenton, N. J. Can puncturing and pouring attachment. No. 1,366,858; Jan. 25; v. 282; p. 675.
- Anderson, William B., Molson, Wash. Pressure-gage. No. 1,384,422; July 12; v. 288; p. 291.
- Anderson, William B., assignor to Haggard & Marcusson Co., Chicago, Ill. Spring-bed-bottom structure. No. 1,384,111; July 12; v. 288; p. 226.
- Anderson, William E., Phillipsburg, assignor to A. S. Cameron Steam Pump Works, Jersey City, N. J. Impeller-vane for water-pumps. No. 1,367,343; Feb. 1; v. 283; p. 92.
- Anderson, William G., Seattle, Wash. Garden hoe and weeder. No. 1,374,051; Apr. 5; v. 285; p. 130.
- Anderson, William J., Duluth, Minn. Meat-grinder. No. 1,375,766; Apr. 26; v. 285; p. 595.
- Anderson, William M., Minneapolis, Minn. Combined lock-sleeve and dust-cap. No. 1,370,395; Mar. 1; v. 284; p. 121.
- Anderson, William M., assignor to Ideal Products Company, Minneapolis, Minn. Price-card holder. No. 1,391,090; Sept. 20; v. 290; p. 462.
- Anderson, William M., assignor to Ideal Products Company, Minneapolis, Minn. Cigar-box-lid holder. No. 1,395,215; Oct. 25.
- Anderson, William R. (See Goff, Douglas C., assignor.)
- Anderson, William R. (See Johnson, A., and Anderson.)
- Anderson, William R., and U. G. Edinger, Kingston, N. Y. Sheet-feeding mechanism. No. 1,367,528; Feb. 8; v. 283; p. 187.
- Anderson, William W., Chicago, Ill. Knockdown convertible ironing-board and table. No. 1,369,372; Feb. 22; v. 283; p. 629.
- Anderson, William W., Michigamme, Mich. Flashlight-generator. No. 1,399,598; Dec. 6.
- Andersson, Gustaf E., Erikshäll, near Upsala, Sweden. Means to protect vegetation from frost. No. 1,372,793; Mar. 29; v. 284; p. 788.
- Andersson, Ivan, East Elmhurst, N. Y. Airship. No. 1,372,924; Mar. 29; v. 284; p. 816.
- Andersson, Ivan, East Elmhurst, N. Y. Airship. No. 1,372,925; Mar. 29; v. 284; p. 816.
- Andersson, Victor O. J., Malmö, Sweden. Calculating-machine. No. 1,381,898; June 21; v. 287; p. 411.
- Anderton, Herbert F. (See Bailey, Greenwood, assignor.)
- Andes, Myrtle A., Huntington, W. Va. Utensil-handle guard. No. 1,375,271; Apr. 19; v. 285; p. 469.
- André, Achille, Ixelles, Brussels, Belgium. Scaffolding. No. 1,393,932; Oct. 18.
- André, Gustaf E., Chicago, Ill. Bearing. No. 1,395,244; Nov. 1.
- Andrae, Edward F., Newark, N. J., assignor to General Lead Batteries Company. Storage-battery grid. No. 1,371,661; Mar. 15; v. 284; p. 474.
- Andreani, Antoine, Geneva, Switzerland. Lock. No. 1,379,844; May 31; v. 286; p. 916.
- Andreani, Findley E., Los Angeles, Calif. Bumper. No. 1,382,879; June 28; v. 287; p. 650.
- Andreason, Christian, Sacramento, assignor of fifty per cent to L. A. Morrison, Marysville, Calif. Vehicle-frame suspension. No. 1,393,599; Oct. 11.
- Andreau, Roland L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making substantially anhydrous organic acids. No. 1,381,782; June 14; v. 287; p. 329.
- Andrée, Arthur G. H., assignor to M. J. Andrée, Oak Park, Ill. Wrench. No. 1,377,178; May 10; v. 286; p. 208.
- Andree, John G., Seattle, Wash. Scale. No. 1,370,505; Mar. 8; v. 284; p. 187.
- Andrée, Max J. (See Andrée, Arthur G. H., assignor.)
- Andrée, William E., Chicago, Ill., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Garment-press. No. 1,368,684; Feb. 15; v. 283; p. 458.
- Andrée, William E., Chicago, Ill., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing-machine. No. 1,369,769; Mar. 1; v. 284; p. 3.
- Andrée, William E., Chicago, Ill., assignor to The American Laundry Machinery Company, Norwood, Ohio. Garment-press. No. 1,379,601; May 24; v. 286; p. 796.
- Andrée, William E., Chicago, Ill., assignor to The American Laundry Machinery Company, Norwood, Ohio. Tandem attachment for garment-presses. No. 1,398,827; Nov. 29.
- Andregg, John E., Warren, Conn. Auto-signal. No. 1,384,112; July 12; v. 288; p. 226.
- Andreino, Hector, assignor to The Society Fabriques des Moutres Zenith successeur de Fabriques des Moutres Zenith Georges Favre-Tacot & Cie., Le Locle, Switzerland. Ignition-magneto for internal-combustion engines. No. 1,379,953; May 31; v. 286; p. 936.
- Andren, Birger T. (See Smith, R. S., Andren, and Miller.)
- Andres, Albert, Cannstatt, assignor to Firm of Fortuna-Werke, Spezial-Maschinen-Fabrik, G. m. b. H., Cannstatt-Stuttgart, Germany. Cutting device. No. 1,388,500; Aug. 23; v. 289; p. 685.
- Andresen, Frederick P., Brooklyn, N. Y. Hair-ribbon holder. No. 1,367,172; Feb. 1; v. 283; p. 53.
- Andresen, Herman P., Chicago, Ill. Combination heater and maintenance-wagon. No. 1,376,852; May 3; v. 286; p. 90.
- Andresen, Herman P., Chicago, Ill. Tank-car. No. 1,391,663; Sept. 27; v. 290; p. 652.
- Andresen, Holger A., Chicago, Ill. Tire-filler. No. 1,372,587; Mar. 22; v. 284; p. 707.
- Andresen, John H., Glen Rock, N. J., assignor to R. Hoe and Co., New York, N. Y. Method and apparatus for photogravure etching. No. 1,371,338; Mar. 15; v. 284; p. 410.
- Andrew, Cecil D., Manchester, assignor to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-on-Tyne, England. Driving-chuck for railway-wheel lathes. No. 1,370,010; Mar. 1; v. 284; p. 49.
- Andrew, Frederick W., assignor to Eisemann Magneto Corporation, Brooklyn, N. Y. Magneto for gas-engines. No. 1,374,542; Apr. 12; v. 285; p. 266.
- Andrew, Thomas, Rochdale, England. Yarn package and the like and method and mechanism for winding it. No. 1,400,403; Dec. 13.
- Andrews, Alluwee C., Greenville, Tex. Mortising-machine. No. 1,394,527; Oct. 25.
- Andrews, Bernard R., Braintree, Mass. Drying apparatus. No. 1,373,396; Apr. 5; v. 285; p. 3.
- Andrews, Carlos S., Chicago, Ill. Screwdriver, or the like. No. 1,377,958; May 10; v. 286; p. 359.
- Andrews, Charles W., Buffalo, assignor to Carrier Engineering Corporation, New York, N. Y. Flour-milling process. No. 1,381,266; June 14; v. 287; p. 232.
- Andrews, Donald S., Cleveland, Ohio. Hoisting and conveying device. No. 1,367,907; Feb. 8; v. 283; p. 259.
- Andrews, Edward E., Winchester, Mass., assignor to Chapman Manufacturing Company. Pump. No. 1,365,647; Jan. 18; v. 282; p. 392.
- Andrews, Edward F., Chicago, Ill. Driving mechanism for aircraft accessories. No. 1,364,472; Jan. 4; v. 282; p. 83.
- Andrews Ewart S., Beckenham, England. Vacuum-jacketed metal vessel. No. 1,368,877; Feb. 15; v. 283; p. 495.
- Andrews, James A., and J. W. Herbert, Biddeford, Me. Picker-stick check. No. 1,369,430; Feb. 22; v. 283; p. 642.



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- Andrews, James A., and J. W. Herbert, Biddeford, Me. Pick-stick check. No. 1,394,265; Oct. 18.
- Andrews, L. Maude, Seattle, Wash. Pocket for corsets. No. 1,374,172; Apr. 12; v. 285; p. 195.
- Andrews, Lawrence J., Falk, Idaho. Trap. No. 1,376,308; Apr. 26; v. 285; p. 699.
- Andrews, Marcus P., Petersburg, Va. Brickmaking apparatus. No. 1,374,173; Apr. 12; v. 285; p. 195.
- Andrews, O. B., Company. (See Davis, John N., assignor.)
- Andrews, Roger W., assignor to Northern Equipment Company, Erie, Pa. Water-flow device. No. 1,396,239; Nov. 8.
- Andrews, William G. (See Mayer, G. K., Andrews, and Coldby.)
- Andrysiak, Wladyslaw S., South Bend, Ind. Vegetable-crusher. No. 1,382,449; June 21; v. 287; p. 515.
- Andrzejewski, Stanislaus B., Boston, Mass. Three-valve automobile gasoline-lock. No. 1,390,859; Sept. 13; v. 290; p. 353.
- Angebaud, Pierre A. M. J., Nantes, France. Protecting device against X-rays and similar radiations. No. 1,368,094; Feb. 8; v. 283; p. 294.
- Angell, Otis R., Boston, Mass. Centrifugal top. No. 1,377,544; May 10; v. 286; p. 278.
- Angell, Otis R., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Method of and machine for cutting heel-seats. No. 1,389,613; Sept. 6; v. 290; p. 11.
- Angell, Otis R., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Edge setting and burnishing machine. No. 1,392,903; Oct. 11.
- Angell, Otis R., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Edge setting and burnishing machine. No. 1,395,787; Nov. 1.
- Angell, Otis R., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Edge setter and burnisher. No. 1,398,993; Dec. 6.
- Angelo, Louis, Kansas City, Mo. Antiskid-tread. No. 1,399,179; Dec. 6.
- Angier, Edward H. (See Wheildon, W. M., and Angier.)
- Angier, Edward H. (See Wheildon, William M., assignor.)
- Angier, Edward H., Framingham, Mass. Bale. No. 1,367,650; Feb. 8; v. 283; p. 209.
- Angier, Edward H., Framingham, Mass. Package. No. 1,385,165; July 19; v. 288; p. 526.
- Angier, Edward H., Framingham, Mass. Preparing tires for shipment or storage. No. 1,388,840; Aug. 30; v. 289; p. 805.
- Angier, Edward H., Framingham, Mass. Wrapping or packaging machine. No. 1,394,266; Oct. 18.
- Angier, Edward H., Framingham, Mass. Package. No. 1,395,661; Nov. 1.
- Angier, Edward H., Framingham, and W. M. Wheildon, Ashland, Mass.; said Wheildon assignor to said Angier. Wrapping-machine. No. 1,382,403; June 21; v. 287; p. 506.
- Angle, Edward H., Pasadena, Calif. Orthodontic appliance. No. 1,366,628; Jan. 25; v. 282; p. 629.
- Angle, Edward H., Pasadena, Calif. Orthodontic appliance. No. 1,367,851; Feb. 8; v. 283; p. 249.
- Angle, E. H., Pasadena, Calif., and S. R. Atkinson, Atlanta, Ga. Orthodontic appliance. No. 1,398,761; Nov. 29.
- Angle, Glenn D., Dayton, Ohio. Variable-throw crank-shaft. No. 1,385,768; July 26; v. 288; p. 725.
- Angle, Lloyd A. (See Stanforth, R., and Angle.)
- Angle, Lloyd A., assignor to Arts In Buttons, Inc., Rochester, N. Y. Button. No. 1,383,591; July 5; v. 288; p. 69.
- Anglo-American Mill Company, The. (See Campbell, Thomas C., assignor.)
- Anglo-American Mill Co., The. (See Howson, Charles T., assignor.)
- Angsten-Kox Company. (See Walker, Joseph, assignor.)
- Angulo, Alexander, *et al.* (See Sanchez, Leonardo, assignor.)
- Angus, Donald J. (See Esterline, J. W., and Angus.)
- Angus, Donald J., Indianapolis, Ind. Movable element for meters. No. 1,370,179; Mar. 1; v. 284; p. 80.
- Angus, Donald J., Indianapolis, Ind. Electric-meter construction. No. 1,394,528; Oct. 25.
- Angus, Donald J., assignor to Esterline & Angus, Indianapolis, Ind. Gas-generator. No. 1,373,477; Apr. 5; v. 285; p. 19.
- Angus, Harvey L., Inverness, Mont. Lifter for cooking vessels. No. 1,367,529; Feb. 8; v. 283; p. 187.
- Angus, William, & Company (Scotland) Limited. (See Howe, Albert L., assignor.)
- Angus, William A. R., Winnipeg, Manitoba, Canada. Rail-anchor. No. 1,401,856; Dec. 27.
- Angus, William A. R., Winnipeg, Manitoba, Canada. Repair-clamp. No. 1,374,174; Apr. 12; v. 285; p. 195.
- Angus, William M., Dennison, Tex. Safety-casing clamp. No. 1,371,835; Mar. 15; v. 284; p. 507.
- Angyal, Violet, Balham, London, England. Musical instrument operated by percussion. No. 1,385,898; July 26; v. 288; p. 750.
- Anhaltzer, Henry, Pittsburgh, Pa. Making soluble coffee. No. 1,365,443; Jan. 11; v. 282; p. 313.
- Anheuser, Ernst, Racine, Wis. Tool. No. 1,379,737; May 31; v. 286; p. 896.
- Anker, James J., Verona, Pa. Phonograph attachment. No. 1,374,483; Apr. 12; v. 285; p. 255.
- Anker, Sigurd J., El Centro, Calif. Lantern-support. No. 1,366,710; Jan. 25; v. 282; p. 645.
- Ankers, John M., New Westminster, British Columbia, Canada. Flower-supporting stand. No. 1,369,315; Feb. 22; v. 283; p. 618.
- Annabel, Charles C. (See Letts, Ellsworth M., assignor.)
- Annable, George A., New York, N. Y. Book-frame and label-holder. No. 1,396,910; Nov. 15.
- Annable, Warren W., Grand Rapids, Mich. Keyway-forming in wheels or the like and product thereof. No. 1,376,664; May 3; v. 286; p. 53.
- Añorga y Larralde, Francisco, Matanzas, Cuba. Plow. No. 1,388,233; Aug. 23; v. 289; p. 630.
- Anso Company. (See Bornmann, Carl, assignor.)
- Ansell, Hamlin G. (See Stroud, Fred, assignor.)
- Anselmi, Carlos, and M. Viturro, Buenos Aires, Argentina. Apparatus for projection of motion-pictures. No. 1,393,735; Oct. 18.
- Anselmi, Carlos, and M. Viturro, Buenos Aires, Argentina. Means for intermittently feeding the films in cinematographic apparatus. No. 1,396,911; Nov. 15.
- Anshelm, Edward H., Cambridge, Mass., assignor to D. I. Hayes, Pawtucket, R. I. Cigar-lighter for steering-wheels. No. 1,393,548; Nov. 1.
- Ansley, George W., Long Beach, Calif. Wrench. No. 1,375,546; Apr. 19; v. 285; p. 521.
- Anspach, Frank M., and F. L. Myers, Toledo, Ohio. Dust-collector. No. 1,380,698; June 7; v. 287; p. 71.
- Antanavicius, Vincas, Brooklyn, N. Y. Tape-needle. No. 1,374,710; Apr. 12; v. 285; p. 299.
- Anthes, Albert N., Fort Madison, Iowa. Shock-absorber. No. 1,383,592; July 5; v. 288; p. 69.
- Anthony, John H., San Francisco, Calif. Shoe-lacing device. No. 1,385,238; July 19; v. 288; p. 540.
- Anthony, Alfred R., Detroit, Mich. Fuel-oil burner. No. 1,396,086; Nov. 8.
- Anthony, Arthur H., and C. E. Nordfeldt, assignors to The Massillon Steel Castings Company, Massillon, Ohio. Wheel construction. No. 1,396,310; Nov. 8.
- Anthony Company. (See Anthony, William C., assignor.)
- Anthony Company, The. (See Morse, Albert W., assignor.)
- Anthony, George H., Sykesville, Pa. Tie and rail-faster. No. 1,384,006; July 5; v. 288; p. 155.
- Anthony, Joseph W., Lynn, Mass. Leather-folding machine. No. 1,365,648; Jan. 18; v. 282; p. 392.
- Anthony, Joseph W., Lynn, Mass. Leather-folding machine. No. 1,386,676; Aug. 9; v. 289; p. 212.
- Anthony, Marcus O., assignor of one-half to A. Kimball Company, New York, N. Y. Grenade. No. 1,375,440; Apr. 19; v. 285; p. 502.
- Anthony, Marcus O., New York, N. Y., and G. Lederman, Cleveland, Ohio, said Lederman assignor to said Anthony. Trunk-dolly. No. 1,400,509; Dec. 20.
- Anthony, Stanley, Boston, Mass. Terminal for wires of electric circuits. No. 1,395,788; Nov. 1.
- Anthony, Thomas L., Lincoln, Nebr. Steering-gear connection for motor-vehicles. No. 1,375,887; Apr. 26; v. 285; p. 618.
- Anthony, Thomas P., Edgewater Park, assignor to United States Cast Iron Pipe and Foundry Company, Burlington, N. J. Pneumatic rammer. No. 1,367,001; Feb. 1; v. 283; p. 24.
- Anthony, Thomas P., Edgewater Park, N. J., assignor to United States Cast Iron Pipe & Foundry Company. Drying molds. No. 1,386,593; Aug. 9; v. 289; p. 195.
- Anthony, William C., Streator, Ill. Rocker dumping-body. No. 1,365,017; Jan. 11; v. 282; p. 232.
- Anthony, William C., assignor to Anthony Company, Streator, Ill. Body support and lock. No. 1,392,615; Oct. 4.
- Anti-Bacilli Company, The. (See Tabler, Frank C., assignor.)
- Anti-Corrosion Engineering Company. (See West, Perry, assignor.)
- Anti-Corrosion Engineering Company. (See Wilson, John J., assignor.)
- Antiga y Escobar, Juan, Habana, Cuba. Puzzle and game. No. 1,368,425; Feb. 15; v. 283; p. 406.
- Antley, William J., Yonges Island, S. C. Current-motor. No. 1,374,801; Apr. 12; v. 285; p. 316.
- Antoine, Alfred D., Chicago, and C. C. Travis, Evanston, assignors to Advance Machine Co., Chicago, Ill. Check-controlled machine. No. 1,370,578; Mar. 8; v. 284; p. 201.
- Antoine, Alfred D., Chicago, and C. C. Travis, Evanston, assignors to Advance Machine Company, Chicago, Ill. Check-detector for check-actuated machines. No. 1,372,666; Mar. 29; v. 284; p. 763.
- Antoine, Lucien J., Council Bluffs, Iowa. Windshield-spotlight support. No. 1,381,267; June 14; v. 287; p. 232.
- Antoine, Victor, Lambermont, near Verviers, Belgium. Pulping-machine. No. 1,372,001; Mar. 22; v. 284; p. 595.
- Antoni, Ernst J., Whitewright, Tex. Cotton-chopper. No. 1,383,055; June 28; v. 287; p. 684.
- Antonio de Almeida Bello. (See Lopes, Antonio, assignor.)
- Antrim, William D., assignor to Welsbach Company, Gloucester, N. J. Package for mantles. No. 1,372,636; Mar. 22; v. 284; p. 717.



Arbuckle, Samuel F., Indianapolis, assignor to United States Automotive Corporation, Connorsville, Ind. Two-way-tilting reflector for lamps. No. 1,398,292; Nov. 29.

Arcadia Trailer Corporation. (See Collier, Joseph W., assignor.)

Arcadia Trailer Corporation. (See Wright, Frank, assignor.)

Arceneaux, Armond R. (See Davis, Monroe, assignor.)

Archer, Alfred W. (See Barnickol, W. F., and Archer.)

Archer, Alfred W., assignor to Sterling Iron Works, Stockton, Calif. Water-cooled bearing for pump-shafts. No. 1,386,219; Aug. 2; v. 289; p. 51.

Archer, Charles B., assignor, by mesne assignments, to N. F. McGowin, Chapman, Ala. Soldering-iron. No. 1,400,784; Dec. 20.

Archer Manufacturing Company. (See Spear, Arthur.)

Archibald, Nevlin A., Concord, N. C. Swing. No. 1,391,874; Sept. 27; v. 290; p. 694.

Arcus, James S. (See Beaubien, Robert E., assignor.)

Arcus, James S., Chicago, Ill. Check holder and notching device. No. 1,368,995; Feb. 22; v. 283; p. 996.

Ard, Ernest S., Antelope, Saskatchewan, Canada. License-plate holder. No. 1,371,837; Mar. 15; v. 284; p. 507.

Ard, Ligon B., New York, N. Y. Treating shale and like material. No. 1,373,698; Apr. 5; v. 285; p. 61.

Ard, Ligon B., New York, N. Y. Apparatus for treating shale and like material. No. 1,373,699; Apr. 5; v. 285; p. 62.

Arden Salt Company. (See Aicher, Gustav A., assignor.)

Ardo, Joseph, Newhall, W. Va. Safety-boat. No. 1,364,911; Jan. 11; v. 282; p. 211.

Ardo, Joseph, Newhall, W. Va. Resilient wheel. No. 1,391,660; Sept. 27; v. 290; p. 651.

Ardo, Joseph, and O. Phillips, Newhall, W. Va. Sunken-ship indicating and safety device. No. 1,384,736; July 19; v. 288; p. 437.

Arduino, Pier T., Turin, Italy. Machine for making coffee and like infusions. No. 1,390,008; Sept. 6; v. 290; p. 90.

Arend, John, Mankato, Minn. Piston-ring. No. 1,391,816; Sept. 27; v. 290; p. 682.

Arends, James B., Onida, S. D. Rail-chair. No. 1,368,012; Feb. 8; v. 283; p. 278.

Arendt, Morton, New York, N. Y., assignor, by mesne assignments, to Electro Dynamic Company. Lighting-vehicle. No. 1,366,629; Jan. 25; v. 282; p. 629.

Arent, Arthur, Des Moines, Iowa. Protective treatment of materials. No. 1,388,824; Aug. 23; v. 289; p. 747.

Arent, Arthur, Des Moines, Iowa. Protectively treating materials. No. 1,388,825; Aug. 23; v. 289; p. 747.

Arent, Arthur, Des Moines, Iowa. Treatment of materials to reduce their inflammability. No. 1,388,826; Aug. 23; v. 289; p. 747.

Arent, Arthur, Des Moines, Iowa. Protective material. No. 1,388,827; Aug. 23; v. 289; p. 747.

Arent, Arthur, Des Moines, Iowa. Protectively treating materials. No. 1,388,828; Aug. 23; v. 289; p. 748.

Arent, Arthur, Des Moines, Iowa. Protective treatment of materials. No. 1,388,829; Aug. 23; v. 289; p. 748.

Arentz, Fred B. (See Backhaus, A. A., and Arentz.)

Arey, Fred C., Oak Park, Ill. Expanded-metal-lath machine. No. 1,384,376; July 12; v. 288; p. 281.

Argus-Motoren-Gesellschaft m. b. H. (See Zoller, Arnold, assignor.)

Arinchi, Rikizo, Kerry, Oreg. Harvester. No. 1,369,373; Feb. 22; v. 283; p. 630.

(strong.)

Ariura, Muraji, Tokyo, Japan. Apparatus for refloating sunken vessels. No. 1,373,643; Apr. 5; v. 285; p. 51.

Arkansas Short Leaf Lumber Company. (See Walker, William H., assignor.)

Arkell Safety Bag Company. (See Widmer, Howard G., assignor.)

Arkin, Louis, Boston, Mass. Fastener. No. 1,380,177; May 31; v. 286; p. 979.

Arkin, Victor. (See Leonard, N., and Arkin.)

Arkless, Victor B. (See Oelenschlager, J. W., and Arkless.)

Arledge, Elbert H., assignor of one-half to Harry Hamilton, Fort Worth, Tex. Detachable inside door-lock. No. 1,390,009; Sept. 6; v. 290; p. 91.

Arlin, Karl. (See Makl, O., and Arlin.)

Arlington Refrigerator Company. (See Rice, George H., assignor.)

Armagnat, Henri, and P. Frely, Paris, France. Electric reproducer for phonographs. No. 1,384,295; July 12; v. 288; p. 264.

Armantrout, Charles W., Grandview, Wash. Agricultural machine for direct attachment to tractors. No. 1,401,029; Dec. 20.

Armat, Thomas, Washington, D. C. Production of animated pictures. No. 1,390,861; Sept. 13; v. 290; p. 353.

Armbruster, Alfred. (See Fokken, G. W., and Armbruster.)

Armes, Earl H., Julesburg, Colo. Air-cooling system. No. 1,390,862; Sept. 13; v. 290; p. 353.

Armington, Arthur A., *et al.*, executors. (See Wardwell, Simon W.)

Armishaw, Sam, Portland, Oreg. Heel. No. 1,393,658; Oct. 11.

Armistead, William E., La Grange, Ga. Apparatus for making ice. No. 1,390,863; Sept. 13; v. 290; p. 353.



- Armitage, George H., Woonsocket, R. I., assignor to Kelley Ticket Machine Company, New York, N. Y. Delivery mechanism for vending-machines. No. 1,398,994; Dec. 6.
- Armitage, Le Roy, East Orange, N. J. Electric-lamp fixture. No. 1,394,629; Oct. 25.
- Armitage, Marjorie B., Colorado Springs, Colo. Safety-bar. No. 1,393,733; Oct. 18.
- Armor, James C., Pittsfield, Mass., assignor to General Electric Company. Arc-welding composition. No. 1,374,711; Apr. 12; v. 285; p. 299.
- Armorcord Rubber Company, The. (See McLane, Joseph A., assignor.)
- Armour Fertilizer Works. (See Baum, E. C., and Jones, assignors.)
- Armour Fertilizer Works. (See Shoeld, Mark, assignor.)
- Armriester, Robert I., Philadelphia, Pa. Walking toy. No. 1,396,087; Nov. 8.
- Arms Products Company. (See Newton, Richard T., assignor.)
- Arms Products Company. (See Post, Truman W., assignor.)
- Armstrong, Albert. (See Albert, G. L., Allen, and Armstrong.)
- Armstrong-Blum Mfg. Company. (See Blum, George J., assignor.)
- Armstrong, Charles D., San Francisco, Calif. Carpet or the like mounting for stairways. No. 1,382,263; June 21; v. 287; p. 478.
- Armstrong, Charles G., New York, assignor to A. B. Selley, Hewlett, Long Island, and C. L. Lincoln, New York, N. Y. Manhole-top. No. 1,364,422; Jan. 4; v. 282; p. 73.
- Armstrong, Charlie R., Hawarden, Iowa. Bolt for loaded grain-cars. No. 1,391,661; Sept. 27; v. 290; p. 651.
- Armstrong, Clara P., (now by marriage C. P. Billard,) New London, Conn. Combination license-plate holder and danger-signal. No. 1,371,190; Mar. 8; v. 284; p. 318.
- Armstrong, Clarence D. (See Neville, Chris S., assignor.)
- Armstrong, Constance D., Gisborne, New Zealand. Dish-cleaner. No. 1,398,664; Nov. 29.
- Armstrong Cork Company. (See Fix, Frank C., assignor.)
- Armstrong, Edward R., Wilmington, Del. Anchoring aeroplane, navigating, and supply stations at any depth of the ocean. No. 1,378,394; May 17; v. 286; p. 494.
- Armstrong, Edwin H. (See Pupin, M. I., and Armstrong.)
- Armstrong, Edwin J., assignor to Ball Engine Company, Erie, Pa. Steam-engine. No. 1,393,736; Oct. 18.
- Armstrong, Evan A. (See Harris, Archer H., assignor.)
- Armstrong, Frank H., Auburn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,375,844; Apr. 19; v. 285; p. 483.
- Armstrong, Frank H., Auburn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,387,959; Aug. 16; v. 289; p. 520.
- Armstrong, Frank H., Auburn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,387,960; Aug. 16; v. 289; p. 520.
- Armstrong, Frank W., Salina, Kans. End shield for automobile dustpans. No. 1,377,795; May 10; v. 286; p. 327.
- Armstrong, George F., Sioux City, Iowa. Button-fastener. No. 1,401,232; Dec. 27.
- Armstrong, Harry Y., Springfield, Mass., assignor of one-half to W. L. Hall, Chicago, Ill. Envelop-making machine and method. No. 1,367,291; Feb. 1; v. 283; p. 81.
- Armstrong, Harry Y., Syracuse, N. Y., assignor of one-half to W. L. Hall, Chicago, Ill. Wrapping-machine. No. 1,400,202; Dec. 13.
- Armstrong, Horace E., Salem, Oreg. Fuel-saver and air-circulator. No. 1,382,880; June 28; v. 287; p. 650.
- Armstrong, Joseph M., Alexandria, Va. Shutter-frame. No. 1,373,584; Apr. 5; v. 285; p. 40.
- Armstrong, Lavanda M., Peoria, Ill. Aircraft of the lighter-than-air type. No. 1,390,745; Sept. 13; v. 290; p. 330.
- Armstrong, Lottie L., Washington, D. C. Bottle-holder. No. 1,390,266; Sept. 13; v. 290; p. 234.
- Armstrong, Morgan K., Winnetka, assignor to Bestwall Manufacturing Company, Chicago, Ill. Apparatus for making plaster-board. No. 1,367,292; Feb. 1; v. 283; p. 81.
- Armstrong, Morgan K., Winnetka, assignor to Bestwall Manufacturing Company, Chicago, Ill. Plastic composition. No. 1,384,037; July 12; v. 288; p. 211.
- Armstrong, Morgan K., Winnetka, assignor to Bestwall Manufacturing Company, Chicago, Ill. Weather-board. No. 1,399,455; Dec. 6.
- Armstrong, Percy A. E., New York, N. Y. Roller-bearing. No. 1,376,309; Apr. 26; v. 285; p. 699.
- Armstrong, Percy A. E., Watervliet, N. Y. Roller-bearing. No. 1,376,310; Apr. 26; v. 285; p. 699.
- Armstrong, Percy A. E., Loudonville, N. Y. Combined thrust and journal roller-bearing. No. 1,376,311; Apr. 26; v. 285; p. 700.
- Armstrong, Percy A. E., Loudonville, N. Y. Electrical heating element of alloy-steel. No. 1,385,740; July 26; v. 288; p. 719.
- Armstrong, Percy A. E., Loudonville, N. Y. Heat-conducting device. No. 1,386,303; Aug. 2; v. 289; p. 68.
- Armstrong, Percy A. E., Loudonville, N. Y. Making cored tubular bodies. No. 1,390,746; Sept. 13; v. 290; p. 330.
- Armstrong, Percy A. E., Loudonville, N. Y., assignor to Ludlow Steel Company. Vanadium-containing impact-tools for hot work. No. 1,388,157; Aug. 23; v. 289; p. 615.
- Armstrong, Robert B., assignor to himself and R. & W. Hawthorn Leslie & Company, Limited, Newcastle-upon-Tyne, England. Water-tube steam-boiler. No. 1,383,590; July 5; v. 288; p. 69.
- Armstrong, Robert F., La Cygne, Kans. Artificial hand. No. 1,375,809; Apr. 26; v. 285; p. 603.
- Armstrong, Sir W. G., Whitworth and Company, Limited. (See Andrew, Cecil D., assignor.)
- Armstrong, Sir W. G., Whitworth and Company Limited. (See Chicken, C. B., and Scott, assignors.)
- Armstrong, Sir W. G., Whitworth and Company Limited. (See Lee, H. W., and Morrison, assignors.)
- Armstrong, Sir W. G., Whitworth and Company. (See Lee, H. W., and Swindale, assignors.)
- Armstrong, Sir W. G., Whitworth & Company. (See Le Mesurier, Louis J., assignor.)
- Armstrong, Sir W. G., Whitworth and Company. (See Matthews, T. H., and Lee, assignors.)
- Armstrong, Walter, Chicopee, Mass. Type-making machine. No. 1,397,714; Nov. 22.
- Armstrong, Walter J., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Belt-supporting-pulley system. No. 1,371,290; Mar. 15; v. 284; p. 400.
- Armstrong, William W. (See Davenport, Isaac L., assignor.)
- Arn, Fred, assignor to J. M. Card Lumber Co., Chattanooga, Tenn. Chock-block for automobiles. No. 1,400,785; Dec. 20.
- Arn, Fred, assignor to J. M. Card Lumber Co., Chattanooga, Tenn. Chock-block. No. 1,400,786; Dec. 20.
- Arndt, John P., Milwaukee, Wis. Circuit-breaker. No. 1,366,343; Jan. 25; v. 282; p. 571.
- Arndt, Rudolph, Flint, Mich. Nut and thread locking device. No. 1,366,687; Jan. 25; v. 282; p. 640.
- Arner, Paul A., Allentown, Pa. Child's coaster. No. 1,389,418; Aug. 30; v. 289; p. 921.
- Arnesen, Charlotte, assignor of one-fifth to C. L. Oberg and I. A. Oberg, Portland, Oreg. Aeroplane. No. 1,391,443; Sept. 20; v. 290; p. 534.
- Arneth, John F., Washington, D. C. Animal-trap. No. 1,387,826; Aug. 16; v. 289; p. 494.
- Arnholz, Lewis, Wichita, Kans. School desk and chair. No. 1,370,396; Mar. 1; v. 284; p. 121.
- Arnold, Albert, Detroit, Mich. Valve-governor. No. 1,384,113; July 12; v. 288; p. 226.
- Arnold, Arthur A., assignor to American Optical Company, Southbridge, Mass. Eye-protector. No. 1,374,896; Apr. 19; v. 285; p. 397.
- Arnold, Charles H. (See Venuti, P. B., and Arnold.)
- Arnold Clarence F., assignor to H. F. Walliser Company, Philadelphia, Pa. Machine for making and applying tufts. No. 1,390,267; Sept. 13; v. 290; p. 234.
- Arnold, Douglass L., Chicago, Ill., assignor to International Harvester Company. Spark-plug. No. 1,376,500; May 3; v. 286; p. 23.
- Arnold, Edwin M., Tulsa, Okla. Combination-wrench. No. 1,381,889; June 14; v. 287; p. 349.
- Arnold, George W., Denver, Colo. Ore-separator. No. 1,397,480; Nov. 15.
- Arnold, Harold D. (See Colpitts, E. H., and Arnold.)
- Arnold, Harold D., Maplewood, N. J. Themionic amplifier. No. 1,398,665; Nov. 29.
- Arnold, Harold D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Power-modulator for radiotransmission. No. 1,375,481; Apr. 19; v. 285; p. 509.
- Arnold, Harold De F., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Radio-receiving system. No. 1,367,224; Feb. 1; v. 283; p. 68.
- Arnold, Harold D., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Detecting underwater vibrations. No. 1,383,690; July 5; v. 288; p. 90.
- Arnold, John T., Attica, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Stoker. No. 1,379,672; May 31; v. 286; p. 884.
- Arntz, Joseph E., Canal Fulton, Ohio. Window-bracket. No. 1,373,397; Apr. 5; v. 285; p. 3.
- Arnold, Lincoln R., Providence, R. I. Runway. No. 1,384,114; July 12; v. 288; p. 227.
- Arnold, Lyman, Lynn, Mass., assignor to General Electric Company. Constant-current transformer. No. 1,390,074; Sept. 6; v. 290; p. 104.
- Arnold, Oscar M., and John F. Toomey, New York, N. Y., assignors to American Telephone & Telegraph Company. Telephone toll-circuits. No. 1,376,391; May 3; v. 286; p. 3.
- Arnold Print Works. (See Jones, S. M., and Harlow, assignors.)
- Arnold, Satterlee T., Paducah, Ky. Bottle-opener. No. 1,376,994; May 3; v. 286; p. 117.
- Arnot, Robert, Zurich, Switzerland. Azo dye and its manufacture. No. 1,395,238; Oct. 25.
- Arntz, Fred B. (See Backhaus, A. A., and Arntz.)
- Arntz, Lew, Des Moines, Iowa. Eyeglass-frame. No. 1,370,001; Mar. 1; v. 284; p. 47.
- Arntz, Lew, and B. Walters, Des Moines, Iowa. Detachable shoe-heel pad. No. 1,371,339; Mar. 15; v. 284; p. 410.



*Alphabetical list of patentees—Continued.*

- Arntz, Theodore W. (See Werner, O. P., and Arntz.)  
 Arnum, Charles W., Chicago, Ill. Silver-ribbon icicle. No. 1,368,996; Feb. 22; v. 283; p. 557.  
 Arons, Axel E., Peoria, Ill. Trackless power-driven vehicle. No. 1,392,904; Oct. 11.  
 Aronson, Louis V., Newark, N. J. Shoe-form. No. 1,397,715; Nov. 22.  
 Aronson, Louis V., Newark, N. J. Liquid-dropper. No. 1,399,916; Dec. 13.  
 Aronson, Louis V., Newark, N. J. Ornament-support. No. 1,401,750; Dec. 27.  
 Arragg, George M. (See Dyson, John, assignor.)  
 Arragg, George M., Lawrence, Mass. Stop-motion. No. 1,374,417; Apr. 12; v. 285; p. 242.  
 Arrouquier, Frederick E., Shrewsbury, assignor of one-half to D. Hennigan, Worcester, Mass. Envelop-machine. No. 1,395,380; Nov. 1.  
 Arrow Electric Company, The. (See Alley, Frank, assignor.)  
 Arrow Electric Company, The. (See Gates, Frederic P., assignor.)  
 Arrow Electric Company, The. (See Nero, Arvid H., assignor.)  
 Arrow Grip Manufacturing Co. (See Barker, Sydney P., assignor.)  
 Art Color Motion Picture Co. (See Miller, Frederic R., assignor.)  
 Arts In Buttons, Inc. (See Angle, Lloyd A., assignor.)  
 Art In Buttons, Inc. (See Stanforth, R., and Angle, assignors.)  
 Art Toy & Stamping Works. (See Albert, Henry, assignor.)  
 Arthur, Arthur J. H., Adelaide, South Australia, Australia. Cross-sectional clinometer. No. 1,393,419; Oct. 11.  
 Arthur, James W. (See Arthur, John M., assignor.)  
 Arthur, James W., assignor to The Williams Foundry and Machine Co., Akron, Ohio. Vulcanizing apparatus. No. 1,365,365; Jan. 11; v. 282; p. 298.  
 Arthur-Jocelyn Sales Company. (See Storms, Jordan E., assignor.)  
 Arthur, John M., New Woodstock, N. Y., assignor of one-half to J. W. Arthur, Akron, Ohio. Rubber-shoe-vulcanizing machine. No. 1,390,478; Sept. 13; v. 290; p. 275.  
 Arundel, Clarence E., Talladega, Ala. Cooking-stove. No. 1,371,191; Mar. 8; v. 284; p. 318.  
 Arvac Manufacturing Company. (See Schaefer, Clemens T., assignor.)  
 Asakawa, Seiji, Tokyo-Fu, and K. Nosawa, Chiba-Ken, Japan. Ship's-bottom paint. No. 1,387,448; Aug. 16; v. 289; p. 417.  
 Asbestos Protected Metal Company. (See Marks, H. E., and Frazier, assignors.)  
 Asbestos Shingle Company. (See Norton, Charles L., assignor.)  
 Asbury, Charles H., Post Falls, Idaho. Whiffletree. No. 1,386,673; Aug. 9; v. 289; p. 211.  
 Asbury, Dorsey F., Washington, D. C. Ignition means and method. No. 1,364,065; Jan. 4; v. 282; p. 3.  
 Asbury, Dorsey F., Washington, D. C. Explosive-engine. No. 1,396,912; Nov. 15.  
 Asbury, Dorsey F., assignor to United States Ordnance Company, Washington, D. C. Gas-check. No. 1,376,180; Apr. 26; v. 285; p. 665.  
 Asbury, Harry E., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Bottle-capping machine. No. 1,397,394; Nov. 15.  
 Aschauer, Charles J., Decatur, Ill. Concrete building structure. No. 1,383,183; June 28; v. 287; p. 708.  
 Aschenbach, Emerson L. (See Nelson, R. M., and Aschenbach.)  
 Ascheri, Antoine, Neuilly-sur-Seine, France. Wire-connecting device. No. 1,382,048; June 21; v. 287; p. 438.  
 Aseptic Service Company. (See Rees, Warren C., assignor.)  
 "Aslag" Aktiengesellschaft. (See Gebhard, Conrad, assignor.)  
 Ash, Charles S., Hagerstown, Md. Quick-detachable-vehicle-wheel hub. No. 1,382,881; June 28; v. 287; p. 650.  
 Ash, Charles S., Hagerstown, Md. Apparatus for use in connection with applying paint. No. 1,382,882; June 28; v. 287; p. 651.  
 Ash, Charles S., Buffalo, N. Y., assignor, by mesne assignments, to Wire Wheel Corporation of America. Paint-bell. No. 1,380,761; June 7; v. 287; p. 83.  
 Ash, Frederick J., Phoenixville, Pa. Stocking-holding device. No. 1,365,445; Jan. 11; v. 282; p. 314.  
 Ash, Thomas, and A. J. Frame, Columbus, Ohio. Film-reel. No. 1,393,420; Oct. 11.  
 Ashbaugh, Robert P., River Forest, and S. C. Cawthon, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Winding mechanism. No. 1,376,914; May 3; v. 286; p. 102.  
 Ashbridge, Thomas G., Philadelphia, Pa. Kneeling-truck. No. 1,382,883; June 28; v. 287; p. 651.  
 Ashby, Charles F., Chicago, Ill. Calendar attachment for fountain-pens. No. 1,365,366; Jan. 11; v. 282; p. 298.  
 Ashby, Harry V., Erie, Pa. Match-holder. No. 1,364,231; Jan. 4; v. 282; p. 36.  
 Ashby, William T., Bloomfield, N. J. Manufacturing oleomargarin. No. 1,400,341; Dec. 13.  
 Ashcraft, Homer E., Davenport, Iowa. Locking device. No. 1,381,855; June 14; v. 287; p. 342.  
 Ashcroft, Edgar A., London, England. Recovering values from ores. No. 1,388,086; Aug. 16; v. 289; p. 544.  
 Ashcroft Manufacturing Company, The. (See Crocker, Ernest B., assignor.)  
 Ashenhurst, Harold S., Chicago, Ill. Heat-resisting cement. No. 1,365,077; Jan. 11; v. 282; p. 242.  
 Asher, Allen P., Sandpoint, Idaho. Filing-cabinet. No. 1,384,880; July 19; v. 288; p. 467.  
 Asher, Herman. (See Cohen, Mortimer J.)  
 Ashkar, Antonio, Brooklyn, N. Y. Lock. No. 1,401,030; Dec. 20.  
 Ashland Products Company, The. (See Willour, Le Roy, assignor.)  
 Ashley, Chauncey E., Syracuse, N. Y. Locking-socket. No. 1,379,606; May 31; v. 286; p. 871.  
 Ashley, Chauncey E., Syracuse, N. Y. Locking-socket. No. 1,379,607; May 31; v. 286; p. 872.  
 Ashley, Clarence S., assignor to L. H. Phelps, New York, N. Y. Piston-ring. No. 1,379,040; Mar. 8; v. 284; p. 270.  
 Ashley, Frank M., Brooklyn, N. Y. Violin, &c. No. 1,367,580; Feb. 8; v. 283; p. 196.  
 Ashley, Frank R., Denver, Colo. Burglar-alarm. No. 1,367,651; Feb. 8; v. 283; p. 209.  
 Ashlock, Henry H., San Diego, Calif. Oil-burner. No. 1,365,018; Jan. 11; v. 282; p. 232.  
 Ashlock, Henry H., San Diego, Calif. Railway-tie. No. 1,383,056; June 28; v. 287; p. 684.  
 Ashlund, Erik A., Waukegan, Ill. Overshoe-applicator. No. 1,374,544; Apr. 12; v. 285; p. 266.  
 Ashmore, Walter L., Macon, Ga. Joint for concrete pavements. No. 1,380,341; June 7; v. 287; p. 4.  
 Ashmore, Walter L., and H. R. Powell, Macon, Ga. Device for finishing concrete pavements. No. 1,364,604; Jan. 4; v. 282; p. 107.  
 Ashmore, Walter L., and H. R. Powell, Macon, Ga. Device for finishing concrete pavements. No. 1,364,605; Jan. 4; v. 282; p. 107.  
 Ashmore, Walter L., and H. R. Powell, Macon, Ga. Device for finishing concrete pavements. No. 1,364,606; Jan. 4; v. 282; p. 107.  
 Ashmun, Ernest E., assignor to Packard Motor Car Company, Detroit, Mich. Device for removing valves from internal-combustion engines. No. 1,383,057; June 28; v. 287; p. 684.  
 Ashtabula Bow Socket Company, The. (See Allen, Charles R., assignor.)  
 Ashron, Hannah, executrix. (See Ashton, Orrell.)  
 Ashton, John F., Worcester, and T. N. Ashton, Fall River, Mass. Lens-edge-grinding machine. No. 1,378,831; May 24; v. 286; p. 651.  
 Ashton, Orrell, deceased, Swampscott, by H. Ashton, executrix, Wollaston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,396,005; Nov. 8.  
 Ashton, Thomas N. (See Ashton, John F. and T. N.)  
 Ashton, William J., Dallas, Tex. Motometer-anchor. No. 1,390,975; Sept. 20; v. 290; p. 439.  
 Ashworth, Alfred, Manchester, England. Machine for dyeing or similarly treating yarns in the form of hanks, skeins, or bundles. No. 1,367,112; Feb. 1; v. 283; p. 46.  
 Ashworth, Asa, Salamanca, N. Y. Apparatus for dyeing tops, yarn, &c. No. 1,374,543; Apr. 12; v. 285; p. 266.  
 Ashworth, Asa, Salamanca, N. Y. Apparatus for dyeing tops, yarn, &c. No. 1,374,628; Apr. 12; v. 285; p. 283.  
 Ashworth, Fred, Beverly, assignor to United Shoe Machinery Corporation, Boston, Mass. Sewing-machine. No. 1,383,447; July 5; v. 288; p. 40.  
 Ashworth, William, North Adams, Mass. Carbureter. No. 1,395,170; Oct. 25.  
 Ashworth, William D., Philadelphia, Pa. Cartridge-clip. No. 1,379,075; May 24; v. 286; p. 696.  
 Askin, Joseph M., assignor to Stuart Products Corporation, Chicago, Ill. Electrode. No. 1,393,483; Oct. 11.  
 Askin, Morris W. (See Herbert, T. L., and Askin.)  
 Askin, Morris W., Washington, D. C. Drinking-fountain and water-mixing attachment for faucets. No. 1,366,150; Jan. 18; v. 282; p. 491.  
 Askren, Herman G., Tipton, Ind. Broom-corn stemmer and separator. No. 1,377,796; May 10; v. 286; p. 328.  
 Aslatt, Ralph D., Martinez, Calif. Composition for coating boilers and pipes. No. 1,372,664; Mar. 29; v. 284; p. 763.  
 Asner, John I., Baltimore, Md. Finger-guard for sewing-machines. No. 1,370,262; Mar. 1; v. 284; p. 97.  
 Aspinwall, Robert S., assignor to Lincoln Manufacturing Company, Detroit, Mich. Securing a nipple to a hollow shell and article produced thereby. No. 1,382,049; June 21; v. 287; p. 439.  
 Asplin, William E., and Hugo Wisander, West Park, Ohio; said Wisander assignor to said Asplin. Apparatus for making baskets. No. 1,383,280; July 5; v. 288; p. 4.  
 Asprooth, Axel H., assignor to Cotta Transmission Company, Rockford, Ill. Change-speed gearing. No. 1,365,217; Jan. 11; v. 282; p. 269.  
 Asprooth, Axel H., assignor to Cotta Transmission Company, Rockford, Ill. Power-pulley mounting for transmission mechanism. No. 1,400,510; Dec. 20.  
 Asprooth, Axel H., Rockford, Ill., assignor to Cotta Transmission Company, Rockford, Ill. Change-speed gearing. No. 1,389,287; Aug. 30; v. 289; p. 894.



*Alphabetical list of patentees—Continued.*

- Asprouth, Axel H., Rockford, Ill., and A. M. Leoni, Dayton, Ohio, assignors, by mesne assignments, to Steinmetz Electric Motor Car Corporation, Baltimore, Md. Change-speed gearing. No. 1,385,105; July 19; v. 288; p. 514.
- Asquith, Stead A., Waterloo, Iowa. Air-hose support. No. 1,374,803; Apr. 12; v. 285; p. 316.
- Associated Engineering and Supply Company. (See Down, Sidney G., assignor.)
- Associated Engineering and Supply Company. (See Down, Sidney G., assignor.)
- Associated Engineering and Supply Company. (See Stewart, Carlton D., assignor.)
- Associated Engineers Company. (See Buckley, Harry H., assignor.)
- Associated Manufacturers Company. (See Anderson, Gustaf M., assignor.)
- Associated Manufacturers Company. (See Edwards, James McC., assignor.)
- Associated Tanners Machinery Co. (See Soper, Walter R., assignor.)
- Ast, Fritz L., Los Angeles, Calif. Flatiron. No. 1,376,242; Apr. 26; v. 285; p. 686.
- Astier, Antoine J., Colombes, France. Valve for pipes for water and other fluids. No. 1,387,446; Aug. 16; v. 289; p. 417.
- Astley, James F., Camden, N. J. Pipe-wrench. No. 1,400,930; Dec. 20.
- Aston, Archer, Leeds, England, assignor to L. E. Waterman Company, New York, N. Y. Mechanically-operated advertising device. No. 1,381,856; June 14; v. 287; p. 343.
- Aston, James, assignor to A. M. Byers Company, Pittsburgh, Pa. Making wrought iron. No. 1,370,507; Mar. 8; v. 284; p. 187.
- Aston, James, assignor to A. M. Byers Company, Pittsburgh, Pa. Making wrought iron. No. 1,370,622; Mar. 8; v. 284; p. 210.
- Aston, James, assignor to A. M. Byers Company, Pittsburgh, Pa. Making wrought-iron. No. 1,380,178; May 31; v. 286; p. 979.
- Aston, James W., Chicago, Ill. Reproducing design. No. 1,396,393; Nov. 8.
- Aston, Taggart, Bellingham, Wash. Wharf-wall and the like. No. 1,392,616; Oct. 4.
- Astrom, Carl P., East Orange, N. J., assignor to M. H. Treadwell Company. Hot-metal-dumping car. No. 1,365,078; Jan. 11; v. 282; p. 242.
- Astrom, Carl P., East Orange, N. J., assignor to M. H. Treadwell Company, New York, N. Y. Dumping-car. No. 1,368,232; Feb. 15; v. 283; p. 369.
- Astrom, John, assignor to Fort Wayne Engineering and Manufacturing Co., Fort Wayne, Ind. Check-valve. No. 1,366,151; Jan. 18; v. 282; p. 491.
- Astry, P. D., *et al.* (See Gable, Jacob W., assignor.)
- Attack, Frederick W., Manchester, England, and G. Robertson, Couper Angus, Scotland. Halogenation of anthraquinone derivatives. No. 1,401,125; Dec. 27.
- Atlanta Engineering Corporation. (See De Graff, Rudi, assignor.)
- Atcheson, Robert H., Providence, R. I., assignor to Ixex Rubber Corporation, Jersey City, N. J. Method of and apparatus for vulcanizing. No. 1,388,138; Aug. 16; v. 289; p. 555.
- Atherton, Alfred L., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting device for vapor-converters. No. 1,371,966; Mar. 15; v. 284; p. 531.
- Atherton, Alfred L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Combined rivet-heater and riveter. No. 1,376,501; May 3; v. 286; p. 23.
- Atherton, Er., Maquoketa, Iowa. Rewinding apparatus for gas-machine motors. No. 1,391,817; Sept. 27; v. 290; p. 682.
- Atherton, Reginald I., North Finchley, England. Portable cinematograph-projector. No. 1,391,990; Sept. 27; v. 290; p. 719.
- Athol Manufacturing Company. (See Mitchell, Rowland B., assignor.)
- Atkin, Frank H., San Francisco, Calif. Hose-clamp. No. 1,383,058; June 28; v. 287; p. 684.
- Atkins, E. C., & Company. (See Berry, Robert C., assignor.)
- Atkins, E. C., & Company. (See Pribnow, John F., assignor.)
- Atkins, Charles, Cincinnati, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Method of and means for assembling core laminations. No. 1,375,072; Apr. 19; v. 285; p. 431.
- Atkins, George J., deceased. (See Pope, H. M., and Johnson, assignors.)
- Atkins, Jessie W., executrix. (See Pope, H. M., and Johnson.)
- Atkins, Joseph B., South Bend, Ind. Automatic crossing-gate. No. 1,380,342; June 7; v. 287; p. 4.
- Atkinson, Benjamin, Salt Lake City, Utah. Drinking-fountain for stock. No. 1,364,473; Jan. 4; v. 282; p. 83.
- Atkinson, Charles E., South Bend, Ind. Water-trap for air-lines. No. 1,393,066; Oct. 11.
- Atkinson, Evelyn J. R., Melbourne, Victoria, Australia. Phonograph. No. 1,399,917; Dec. 13.
- Atkinson, Frederick C., assignor to American Hominy Company, Indianapolis, Ind. Food product and making the same. No. 1,391,160; Sept. 20; v. 290; p. 477.
- Atkinson, Frederick C., assignor to American Hominy Company, Indianapolis, Ind. Food product and preparing. No. 1,391,161; Sept. 20; v. 290; p. 477.
- Atkinson, Frederick W., Leeds, England. Automatic coupling for railway and other vehicles. No. 1,366,237; Jan. 18; v. 282; p. 508.
- Atkinson, George K., Brooklyn, N. Y., assignor to Aurora Tool Works, Aurora, Ind. Drilling-machine. No. 1,399,599; Dec. 6.
- Atkinson, George W., Louisa, Ky. Steam-cooker. No. 1,400,475; Dec. 13.
- Atkinson, Herbert S., East Orange, N. J., assignor to The Haywood Company, New York, N. Y. Bucket. No. 1,371,291; Mar. 15; v. 284; p. 400.
- Atkinson, J. M., *et al.*, trustees. (See Kerr, Augustus H., assignor.)
- Atkinson, John D., Plain, Wash. School-desk. No. 1,382,404; June 21; v. 287; p. 506.
- Atkinson, Spencer R. (See Angle, E. H., and Atkinson.)
- Atkinson, William F., Bakersfield, Calif. Tire-tool. No. 1,389,114; Aug. 30; v. 289; p. 860.
- Atkocaitis, Juozapas, Chicago, Ill. Necktie-pressing board. No. 1,391,444; Sept. 20; v. 290; p. 534.
- Atlanta Utility Works. (See Moore, James W., assignor.)
- Atlantic Dyestuff Company. (See Burrage, A. C., Jr., and Meisel, assignors.)
- Atlantic Refining Company, The. (See Buerger, Charles B., assignor.)
- Atlantic Refining Company. (See Johansen, Ernest M., assignor.)
- Atlantic Refining Company, The. (See Lewis, Joseph W., assignor.)
- Atlas, Abraham, Philadelphia, Pa. Reproducer. No. 1,395,937; Nov. 1.
- Atlas Doll & Toy Co. (See Gerberg, M., Hirsch, and Morgan, assignors.)
- Atlas Powder Company. (See Aurand, Evelyn P., assignor.)
- Atlas Powder Company. (See Bacon, G. C., and Wilson, assignors.)
- Atlas Powder Company. (See Carlsson, O., and Thall, assignors.)
- Atlas Powder Company. (See Cook, R. M., and Grotta, assignors.)
- Atlas Powder Company. (See Hill, R. L., and Strane, assignors.) (Reissue.)
- Atlas Powder Company. (See Strane, Archibald J., assignor.)
- Atlas Manufacturing Company. (See Billingsley, Percy L., assignor.)
- Atlas Railway Signal Company. (See Loughridge, Matthew H., assignor.)
- Atmospheric Nitrogen Corporation. (See Scott, Wilfred W., assignor.)
- Aton, William E. and W. J., assignors of one-third to L. J. Bryant, Milburn, Ky. Agricultural implement. No. 1,395,329; Nov. 1.
- Aton, Willie J. (See Aton, William E. and W. J.)
- Atterbury, Grosvenor, New York, N. Y. Method and apparatus for casting cementitious blocks. No. 1,395,662; Nov. 1.
- Atwater Kent Manufacturing Works. (See Aiken, Frank, assignor.)
- Atwater Kent Manufacturing Company. (See Kent, Arthur A., assignor.)
- Atwood, A. L. (See Bennett, Oscar L., assignor.)
- Atwood, A. L. (See Parmenter, Brady, assignor.)
- Atwood, George F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,367,113; Feb. 1; v. 283; p. 46.
- Atwood, George F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Winding-machine. No. 1,381,899; June 21; v. 287; p. 411.
- Atwood, George F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Cable-reeling apparatus. No. 1,396,721; Nov. 15.
- Atwood, Harry A., Milwaukee, Wis. Chair. No. 1,368,469; Feb. 15; v. 283; p. 416.
- Atwood, Harry C., Ardmore, Okla. Hand-nutcracker. No. 1,391,751; Sept. 27; v. 290; p. 669.
- Atwood, Leonard, Boston, Mass. Woven hose. No. 1,365,809; Jan. 18; v. 282; p. 424.
- Atwood, Leonard, Boston, Mass. Hose-coating apparatus. No. 1,366,342; Jan. 25; v. 282; p. 571.
- Atwood, Leonard, Boston, Mass. Fishing-reel. No. 1,392,735; Oct. 4.
- Atwood, Newton F., Johnston City, Ill. Concrete-block-forming machine. No. 1,368,231; Feb. 15; v. 283; p. 369.
- Atz, Ralph H., Kendallville, Ind. Marker for planters. No. 1,372,637; Mar. 22; v. 284; p. 717.
- Aubert, Jean M., Billancourt, France. Bearing for pulleys and the like. No. 1,367,936; Feb. 8; v. 283; p. 264.
- Auderer, Albert F., Wolfeboro, N. H. Cock. No. 1,393,418; Oct. 11.
- Audouin, Jean F. H., Paris, France. Steam surface condenser. No. 1,372,926; Mar. 29; v. 284; p. 816.



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- Auert, Nicholas A., assignor to C. H. Lehbak, Longmont, Colo. Safety-lamp. No. 1,376,243; Apr. 26; v. 285; p. 686.
- Auffurth, Erwin, Jr., and E. Hjerpe, Port Arthur, Tex. Game. No. 1,386,594; Aug. 9; v. 289; p. 195.
- Aufero, Emanuel, Brooklyn, N. Y. Warning-signal. No. 1,395,246; Nov. 1.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Strike or keeper for rim-locks. No. 1,377,051; May 3; v. 286; p. 128.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock for automobile-doors. No. 1,379,508; May 24; v. 286; p. 779.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Automobile-tire lock. No. 1,384,549; July 12; v. 288; p. 317.
- Auger, Joseph T., Minneapolis, assignor of three-eighths to E. M. Ferguson, St. Paul, and three-eighths to E. Du Lac, Minneapolis, Minn. Rotary pump. No. 1,369,073; Feb. 22; v. 283; p. 572.
- Auger, Joseph T., Minneapolis, assignor of three-eighths to E. M. Ferguson, St. Paul, and three-eighths to E. Du Lac, Minneapolis, Minn. Lubricating and packing device for shafts. No. 1,374,895; Apr. 19; v. 285; p. 397.
- Auger, Victor, assignor of one-half to A. Ferron, Montreal, Quebec, Canada. Supporting device for switch-actuating bars. No. 1,378,755; May 17; v. 286; p. 564.
- August, Johannes R. C., Halifax, England. Dipping and quenching arrangement for metal bars or other metal articles. No. 1,366,152; Jan. 18; v. 282; p. 491.
- Augustin, Edwin J., Wauwatosa, assignor of one-third to G. Bauer and one-third to O. Gray, Milwaukee, Wis. Pressure-regulating valve. No. 1,392,617; Oct. 4.
- Augustin, Edwin J., Wauwatosa, and G. Bauer, Milwaukee, Wis. Ammonia compressor. No. 1,397,914; Nov. 22.
- Augustine, Benjamin F., Buffalo, N. Y. Rotary gas-engine. No. 1,382,611; June 28; v. 287; p. 599.
- Augustine, Benjamin F., Buffalo, N. Y. Rotary gas-engine. No. 1,382,612; June 28; v. 287; p. 599.
- Augustine, Charles, Hermann, Mo. Machine for marking vamps of shoes. No. 1,391,752; Sept. 27; v. 290; p. 670.
- Augustyn, Andro, East Derby, Conn. Combination-lock. No. 1,391,662; Sept. 27; v. 290; p. 651.
- Aulenback, James R., Bridgewater, Nova Scotia, Canada. Inside-cutting tool. No. 1,377,109; May 3; v. 286; p. 139.
- Aull, Jerome J., assignor to The Lunkenheimer Company, Cincinnati, Ohio. Gas-engine primer. No. 1,364,823; Jan. 4; v. 282; p. 149.
- Ault, Eugene B., Calallen, Tex. Feeder for soft candy. No. 1,384,377; July 12; v. 288; p. 281.
- Ault, Eugene B., Calallen, Tex. Bee-shipping cage. No. 1,388,085; Aug. 16; v. 289; p. 544.
- Ault, Van Jennings, Hancock, Minn. Combination toilet article. No. 1,366,762; Jan. 25; v. 282; p. 656.
- Aumann, Frank, Manitowoc, Wis. Spare-tire carrier. No. 1,401,031; Dec. 20.
- Auperin, Jean G., Brooklyn, N. Y., assignor to Passaic Metal Wire Company, Passaic, N. J. Automatic seaming-machine. No. 1,364,474; Jan. 4; v. 282; p. 83.
- Aurand, Arthur G., Los Angeles, Calif. Constructing building-frames. No. 1,393,933; Oct. 18.
- Aurand, Edward L., Detroit, Mich. Portable electric plant. No. 1,393,058; Nov. 22.
- Aurand, Evelyn P., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Binder for burning compositions. No. 1,388,501; Aug. 23; v. 289; p. 685.
- Aurand, Evelyn P., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Torch fuse-lighter. No. 1,388,502; Aug. 23; v. 289; p. 685.
- Aurich, Eugen, and F. Wolf, New York, N. Y. Art lithography. No. 1,367,521; Feb. 1; v. 283; p. 127.
- Aurora Door Hanger and Specialty Company. (See Fechner, E., and Van Deventer, assignors.)
- Aurora Tool Works. (See Atkinson, George K., assignor.)
- Aust, Arthur A., Bedford, Ohio. Combustion-engine. No. 1,401,126; Dec. 27.
- Austin, Albert L., Cleveland, Ohio. Collapsible container. No. 1,380,880; June 7; v. 287; p. 107.
- Austin, Albert L., Cleveland, Ohio. Electric-terminal connector. No. 1,386,831; Aug. 9; v. 289; p. 244.
- Austin, Albert L., assignor to The Standard Tire Protector Company, Cleveland, Ohio. Tire. No. 1,381,094; June 7; v. 287; p. 148.
- Austin, Arthur C., assignor of one-half to Magill-Weinsheimer Co., Chicago, Ill. Making printing-plates. No. 1,382,613; June 28; v. 287; p. 599.
- Austin, Bascum O., Wilksburg, Pa., assignor to West-inghouse Electric & Manufacturing Company. Control system and apparatus. No. 1,374,545; Apr. 12; v. 285; p. 267.
- Austin, Frederick C. (See Bager, Frederic E., assignor.)
- Austin, Frederick C. (See Benton, Hans J., assignor.)
- Austin, Frederick C. (See Crawford, George N., assignor.)
- Austin, Frederick C. (See French, James C., assignor.)
- Austin, Frederick C. (See Post, Charles C., assignor.)
- Austin, Frederick C. (See Seidler, Alexander, assignor.)
- Austin, Frederick C. (See Stahl, Charles E., assignor.)
- Austin, Frederick C. (See Thompson, William L., assignor.)
- Austin, Henry S., Philadelphia, Pa. Hot-air generator. No. 1,375,664; Apr. 26; v. 285; p. 577.
- Austin, Herbert, Bromsgrove, England. Road-wheel of the sheet-metal type. (Reissue.) No. 15,032; Jan. 25; v. 282; p. 683.
- Austin, John, Geneva, Ohio. Pipe. No. 1,388,158; Aug. 23; v. 289; p. 615.
- Austin, John S., administrator. (See Austin, Willis E.)
- Austin, John T., assignor to The Austin Organ Company, Hartford, Conn. Bearing. No. 1,379,296; May 24; v. 286; p. 738.
- Austin Organ Company, The. (See Austin, John T., assignor.)
- Austin, Paul V., Buffalo, N. Y. Apparatus for treating grain or the like. No. 1,377,743; May 10; v. 286; p. 316.
- Austin, Stephen F., San Antonio, Tex. Road-building machine. No. 1,399,681; Dec. 6.
- Austin, Walter M. (See Mahoney, J. N. and Austin.)
- Austin, Willis E., deceased, Minneapolis, Minn.; J. S. Austin, administrator. Pneumatic action for pipe-organs. No. 1,388,318; Aug. 23; v. 289; p. 648.
- Austral Window Company. (See Winslow, Frances A., assignor.) (Reissue.)
- Ausubel, Herman, New York, N. Y. Hypodermic-syringe transmission therefor. No. 1,378,756; May 17; v. 286; p. 564.
- Autarit-Gesellschaft M. b. H. (See Rechnitzer, Alexander, assignor.)
- Auto-Ordinance Corporation. (See Eickhoff, Theodore H., assignor.)
- Auto-Ordinance Corporation. (See Graham, Oliver B., assignor.)
- Auto-Ordinance Corporation. (See Payne, Oscar V., assignor.)
- Auto-Ordinance Corporation. (See Thompson, John T., assignor.)
- Auto Pneumatic Action Co. (See Heller, Henry R., assignor.)
- Auto Radio Meter Company. (See Benson, A. A., and Barnes, assignors.)
- Auto Safety Device Company. (See Olbon, John A., assignor.)
- Auto Specialties Manufacturing Co. (See White, Harry B., assignor.)
- Auto Specialty Co. (See Palmer, Harry E., assignor.)
- Auto Strop Company. (See Gaisman, Henry J., assignor.)
- Autographic Register Company. (See Shoup, W. C., and Oliver, assignors.)
- Automatic Appliance Company. (See Mapel, Lewis A., assignor.)
- Automatic Arc Welding Company. (See Morton, Harry D., assignor.)
- Automatic Auto Jack Company. (See Downey, Richard F., assignor.)
- Automatic Bowling Alley Co. (See Loewenbach, Hugo, assignor.)
- Automatic Burglar Alarm Company. (See Sparks, Fred E., assignor.)
- Automatic Electric Brake Company. (See Farmer, Robert Z., assignor.)
- Automatic Electric Company. (See Andersen, Albert, assignor.)
- Automatic Electric Company. (See Blessing, John G., assignor.) (Reissue.)
- Automatic Electric Company. (See Chapin, William A., assignor.)
- Automatic Electric Company. (See Erickson, John, assignor.)
- Automatic Electric Company. (See Hershey, Harry E., assignor.) (Reissue.)
- Automatic Electric Company. (See Homrighous, John H., assignor.)
- Automatic Electric Company. (See Jacobsen, Emil, assignor.)
- Automatic Electric Company. (See Kuhl, George H., assignor.)
- Automatic Electric Company. (See Martin, Talbot G., assignor.)
- Automatic Electric Company. (See Mellinger, Edward A., assignor.)
- Automatic Electric Company. (See Seymour, Arthur J., assignor.)
- Automatic Electric Company. (See Smith, Arthur B., assignor.)
- Automatic Electric Company. (See Truby, Franklin J., assignor.) (Reissue.)
- Automatic Electric Company. (See Wicks, John, assignor.)
- Automatic Electric Company. (See Willis, Bernard D., assignor.) (Reissue.)
- Automatic Electric Company. (See Yanochowski, G. A., and Hershey, assignors.)
- Automatic Electric Heater Company. (See Clark, Warren F., assignor.)
- Automatic Electric Washer Co., The. (See Nelson, John, assignor.)
- Automatic Flatwork Folder Company. (See Kelley, Margaret, assignor.)
- Automatic Gas Power Company. (See Vaughn, Fred S., assignor.)
- Automatic Gear Shift Company. (See Gray, Edward E., assignor.)



*Alphabetical list of patentees—Continued.*

- Automatic Gun Control Company. (See Farrell, Stephen A., assignor.)
- Automatic Machine Company. (See Eanes, Hugh P., assignor.)
- Automatic Metal Products Company, The. (See Bradley, William H., assignor.)
- Automatic Packing & Labeling Company. (See Gwinn, George W., assignor.)
- Automatic Projector Company. (See Vischer, Alfred, Jr., assignor.)
- Automatic Railway Mail Exchange Company. (See Hupp, Albert, assignor.)
- Automatic Recording Safe Company, The. (See Fisher, Charles, assignor.)
- Automatic Signal & Sign Company, The. (See Myers, Parke G., assignor.)
- Automatic Sliding Trolley Company. (See Moore, Otto, assignor.) (Reissue.)
- Automatic Sprinkler Company of America. (See Lowe, Ernest A., assignor.)
- Automatic Temperature Control Co. (See Egar, L. E., and Wilhelm, assignors.)
- Automatic Weighing Machine Company. (See Mockridge, Joseph B., assignor.)
- Automobile Appliances Co. (See Van Sciver, Josiah H., assignor.)
- Automotive Corporation, The. (See Woodhull, Llewellyn S., assignor.)
- Automotive Development Co. (See Huggins, Merion J., assignor.)
- Automotive Manufacturing Company, The. (See Butler, Clyde G., assignor.)
- Automotive Parts Company. (See Schwitzer, Louis, assignor.)
- Automotive Supply Manufacturing Company. (See Carroll, M. W., Jr., assignor.)
- Autopoint Pencil Company. (See Keeran, C. R., and Kaufmann, assignors.)
- Autopoint Pencil Company. (See Keeran, Charles R., assignor.)
- Autosales Corporation. (See Bertram, Louis, assignor.)
- Autosales Corporation. (See Grover, Albert D., assignor.)
- Autosales Corporation. (See Potts, E. B., and Grover, assignor.)
- Autosales Corporation. (See Potts, Edwin B., assignor.)
- Auzenat, Louis G. R., assignor to la Loie Artificielle de La Voulte, Paris, France. Waterproofing and strengthening threads and fabrics. No. 1,377,110; May 3; v. 286; p. 139.
- Avart, Isaac, *et al.* (See Hughes, James W., assignor.)
- Aveline, Georges, Soho, London, assignor to R. Roze-Perkins, deceased, Kensington, London, England; H. Paget-Cooke and E. A. H. Douglass-Hamilton, executors. Automatic stabilizing or controlling means for aircraft. No. 1,378,895; May 31; v. 286; p. 925.
- Aveline, John, Scranton, Pa. Draft appliance. No. 1,378,437; May 17; v. 286; p. 502.
- Aveling, Christian W., Elgin, Ill. Hoisting and conveying machinery. No. 1,382,614; June 28; v. 287; p. 599.
- Aveling, Christian W., Elgin, Ill. Hoisting and conveying machinery. No. 1,395,077; Oct. 25.
- Averill, Earl A., Mount Vernon, assignor to Locomotive Feed Water Heater Company, New York, N. Y. Fluid-pressure-delivery mechanism for locomotive-feed-water-heater systems. No. 1,376,064; Apr. 26; v. 285; p. 653.
- Averill, Rex G. (See Darrah, W. A., and Averill.)
- Averill, Willard C., Jr., Houston, Tex. Distilling hydrocarbons. No. 1,375,245; Apr. 19; v. 285; p. 464.
- Averill, William H., Boston, Mass. Loose-leaf binder. No. 1,364,973; Jan. 11; v. 282; p. 223.
- Avery, Arthur D., Los Angeles, Calif. Galley device. No. 1,380,516; June 7; v. 287; p. 36.
- Avery, Bruce W., Whiting, Ind. Exhaust-gas conveyer. No. 1,390,950; Sept. 13; v. 290; p. 372.
- Avery, Colby M., Aurora, Ill., assignor to Stephens-Adamson Mfg. Co. Traveling grizzly. No. 1,401,751; Dec. 27.
- Avery Company. (See Bartholomew, John B., assignor.)
- Avery Company. (See Solomon, Edgar J., assignor.)
- Avery Drilling Machine Company, The. (See Mirrieles, James F., assignor.)
- Avery Gypsum Company. (See Birdsey, Charles R., assignor.)
- Avery, Irving F., assignor to J. H. Press, Chicago, Ill. Dumping vehicle or the like. No. 1,365,810; Jan. 18; v. 282; p. 424.
- Avery, Thomas J., Albia, Iowa. Combination scraper, charger, and tamper. No. 1,379,435; May 24; v. 286; p. 764.
- Avery, W. & T., Limited. (See Timson, William, assignor.)
- Avery, Walter S., Knoxville, Tenn. Pinchcock. No. 1,397,481; Nov. 15.
- Avery, William C., Honolulu, Hawaii. Paper-feeding apparatus for typewriters. No. 1,373,700; Apr. 5; v. 285; p. 62.
- Avis, Sam, Chicago, Ill., assignor of three-fourths to A. Y. Ameer, Chicago, Ill., and J. Yonan and J. N. Baboo, Gary, Ind. Grape-juice syrup and treating the same. No. 1,381,613; June 14; v. 287; p. 296.
- Avorio, Luigi. (See Prassone, E. and Avorio.)
- Awde, Robert E. (See Cleal, J. P., and Awde.)
- Awe, William F., assignor of one-half to M. P. H. Schroeder, Chicago, Ill. Manifold-lock for internal-combustion engines. No. 1,377,168; May 3; v. 286; p. 150.
- Awiszus, Adam, Detroit, Mich. Mixing device. No. 1,367,002; Feb. 1; v. 283; p. 24.
- Awner, Myron, Chicago, Ill. Trousers-belt. No. 1,378,207; May 17; v. 286; p. 458.
- Axelman, Harry W. (See Axelman, Mayer and H. W.) (Reissue.)
- Axelman, Mayer, and H. W., Chicago, Ill. Brief and other carrying case. (Reissue.) No. 15,104; May 17; v. 286; p. 578.
- Axelsson, Jule C., Alhambra, Calif., assignor to Axelsson Machine Company. Sucker-rod coupling. No. 1,401,302; Dec. 27.
- Axelsson Machine Company. (See Axelsson, Jule C., assignor.)
- Axelton, Clarence M., Graettinger, Iowa. Valve-remover. No. 1,370,397; Mar. 1; v. 284; p. 121.
- Axlrod, Meyer, Reading, Pa. Combination table and shaft support. No. 1,379,158; May 24; v. 286; p. 712.
- Axline, Clarence E., Sr., Bryant, Ill. Gate-latch. No. 1,387,961; Aug. 16; v. 289; p. 520.
- Axt, Joseph A., Amboy, Minn. Grain-board holder. No. 1,391,292; Sept. 20; v. 290; p. 503.
- Axtell, Clinton J., assignor to General Electric Company, Schenectady, N. Y. Electrical system of power transmission and regenerative braking. No. 1,378,511; May 17; v. 286; p. 516.
- Axtell, Clinton J., Schenectady, N. Y., assignor to General Electric Company. Electrical system of power transmission and regenerative braking. No. 1,380,941; June 7; v. 287; p. 118.
- Ayars, Charles H., Salem, N. J. Cooking-machine for canned goods. No. 1,380,626; June 7; v. 287; p. 57.
- Ayer, Edward M., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee, Canister. No. 1,388,503; Aug. 23; v. 289; p. 685.
- Ayer, William T., assignor to McKiernan-Terry Drill Company, Dover, N. J. Hammer-drill. No. 1,368,470; Feb. 15; v. 283; p. 416.
- Ayers, Albert M., Nutley, N. J. Bearing for rollers. No. 1,385,418; July 26; v. 288; p. 653.
- Ayers, Fred L., Everett, and F. L. Mackenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Mechanism for use in attaching shank-pieces to shoes. No. 1,399,732; Dec. 13.
- Ayers, Norman, McArthur, Ohio. Lever mechanism. No. 1,392,618; Oct. 4.
- Aylor, Howard F., assignor of one-half to G. R. Gray, Washington, D. C. Attachment for printing-presses. No. 1,366,859; Jan. 25; v. 282; p. 675.
- Aylor, James C., Ranger, Tex. Fur-stretcher. No. 1,372,263; Mar. 22; v. 284; p. 645.
- Ayotte, Joseph R., Chicago, Ill. Hand-tool. No. 1,395,887; Nov. 1.
- Ayotte, Joseph R., Chicago, Ill. Hand-tool. No. 1,395,888; Nov. 1.
- Ayotte, Joseph R., Chicago, Ill., assignor of one-half to J. X. Rivard. Spark-plug. No. 1,369,874; Mar. 1; v. 284; p. 23.
- Ayres, Clinton L. (See McNeely, Carl, assignor.)
- Ayres, David, Paterson, N. J. Thread-guide. No. 1,385,066; July 19; v. 288; p. 506.
- Ayres, Elwood B., assignor to Procter & Schwartz, Incorporated, Philadelphia, Pa. Drier. No. 1,376,244; Apr. 26; v. 285; p. 687.
- Ayres, Elwood B., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drier. No. 1,388,790; Aug. 23; v. 289; p. 741.
- Ayres, Elwood B., and H. Bogaty, assignors to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drying apparatus. No. 1,393,003; Oct. 11.
- Ayres, Fredrick A., Sterling, Colo. Educational film. No. 1,385,354; July 26; v. 288; p. 639.
- Ayres, Reuben B., New York, N. Y. Gas-generator. No. 1,399,285; Dec. 6.
- Ayres, W. E. (See Carpenter, Ira L., assignor.)
- Avayad, Hachig A., Emporia, Va. Flying-machine. No. 1,369,875; Mar. 1; v. 284; p. 23.
- B. & B. Photo Co. (See Barber, Anthony A., assignor.)
- B. G. R. Jack Company. (See Bowman, George, assignor.)
- B.-M. Products Company, The. (See Bull, Charles A., assignor.)
- B.-V. Milking Machine Company. (See Bodeker, Henry F., assignor.)
- B. Z. B. Knitting Co. (See Burson, Wilson W., assignor.)
- Babb, Charles J., Brooklyn, N. Y. Composition of matter. No. 1,370,263; Mar. 1; v. 284; p. 97.
- Babbitt, Isaac N., Fairhaven, Mass. Sprocket-chain guide. No. 1,395,330; Nov. 1.
- Babbitt, Jesse. (See Babbitt, Marvin H. and J.)
- Babbitt, Marvin H. and J., Elkhart, Ind. Mouthpiece for wind musical instruments. No. 1,385,239; July 19; v. 288; p. 541.
- Babbitt, W. Edmands, Portsmouth, N. H., assignor of two-fifths to R. W. Foster, Boston, Mass. Resilient wheel. No. 1,392,262; Sept. 27; v. 290; p. 773.
- Babcock-Davis Corporation. (See Davis, William A., assignor.)
- Babcock-Davis Corporation. (See Nelson, Albert H., assignor.)



*Alphabetical list of patentees—Continued.*

- Babcock-Gallagher Company. (See Babcock, Henry A., assignor.)
- Babcock, Guilford C., assignor to Wirebonds Patents Company, Chicago, Ill. Wirebound box. No. 1,371,208; Mar. 8; v. 284; p. 321.
- Babcock, H. H. (See Davis, Francis G., assignors.)
- Babcock, H. H., Company. (See Milner, Nugent, assignor.)
- Babcock, Henry A., Evanston, Ill., assignor to The Babcock-Gallagher Company, Columbus, Ohio. Motor-vehicle spring suspension. No. 1,381,157; June 14; v. 287; p. 212.
- Babcock, Henry J., assignor to American District Steam Company, North Tonawanda, N. Y. Apparatus for central-heating-plant systems. No. 1,368,013; Feb. 8; v. 283; p. 278.
- Babcock, Howard L. (See Tarkington, Harry K., assignor.)
- Babcock, Jesse H., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Explosive and making same. No. 1,366,048; Jan. 18; v. 282; p. 471.
- Babcock, Leland A., assignor to Sprague Canning Machinery Company, Chicago, Ill. Cutting device for fruit-disintegrating machines. No. 1,373,398; Apr. 5; v. 285; p. 8.
- Babcock, Oliver M., assignor to Wirebonds Patents Company, Chicago, Ill. Crate-making machine. No. 1,371,595; Mar. 15; v. 284; p. 461.
- Babcock Printing Press Manufacturing Company, The. (See English, Fred S., assignor.)
- Babcock & Wilcox Company, The. (See Heaton, Herman C., assignor.)
- Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
- Babcock & Wilcox Company, The. (See Irish, David J., assignor.)
- Babcock & Wilcox Company, The. (See Kemnal, J., and Henry, assignors.)
- Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)
- Babcock & Wilcox Company, The. (See Pratt, Arthur D., assignor.) (Reissue.)
- Babcock & Wilcox Company, The. (See Sellens, Francis C., assignor.)
- Babcock & Wilcox Company, The. (See Sneddon, James P., assignor.)
- Babcock & Wilcox Company, The. (See Spyer, Arthur, assignor.)
- Babel, Henry C., Buffalo, N. Y. Wheel-rim. No. 1,374,272; Apr. 12; v. 285; p. 214.
- Babel, Henry C., Buffalo, N. Y. Cushioned tire. No. 1,378,832; May 24; v. 286; p. 651.
- Babendererde, Walter, assignor, by mesne assignments, to Harmony-Spring Cushion Co., Chicago, Ill. Spring-cushion construction. No. 1,382,594; June 21; v. 287; p. 542.
- Babendreer, Albert, Biloxi, Miss. Conservation and preservation of oyster liquor. No. 1,371,541; Mar. 15; v. 284; p. 451.
- Babin, Paul E., New Orleans, La. Can. No. 1,364,826; Jan. 4; v. 282; p. 150.
- Babrad, Nicolaus, Charleroi, assignor of two-fifths to D. Stec, Cokeburg, Pa. Combination comb and brush. No. 1,401,576; Dec. 27.
- Babis, Harry A., Philadelphia, Pa. Liquid coating composition. No. 1,392,040; Sept. 27; v. 290; p. 729.
- Baboo, Jeremiah N., et al. (See Avis, Sam., assignor.)
- Babson, Henry B., assignor to Pine Tree Milking Machine Company, Chicago, Ill. Milking-machine. No. 1,383,363; July 5; v. 288; p. 52.
- Babson, Roger D., Springfield, Mass., assignor to Baush Machine Tool Company. Production of gear. No. 1,371,214; Mar. 15; v. 284; p. 385.
- Baccellieri, Raffaele, Philadelphia, Pa. Juice-extracting press. No. 1,364,171; Jan. 4; v. 282; p. 24.
- Bach, Charles H., Laconia, N. H. Pump. No. 1,388,087; Aug. 16; v. 289; p. 545.
- Bach, William, Atlantic City, N. J. Sign. No. 1,393,067; Oct. 11.
- Bachar, John, Chicago, Ill. Phonograph-cabinet. No. 1,394,960; Oct. 25.
- Bache, Sigvald E. F., Chicago, Ill. Sugar container and dispenser. No. 1,386,221; Aug. 2; v. 289; p. 52.
- Bachelder, Frank H., Orange, Mass. Needle and shuttle selling-cabinet. No. 1,369,213; Feb. 22; v. 283; p. 599.
- Bacher, Rollin L., Cleveland Heights, assignor to The United States Air Compressor Company, Cleveland, Ohio. Pressure-release. No. 1,387,679; Aug. 16; v. 289; p. 464.
- Bachle, Andrew, Detroit, Mich. Intake-manifold for internal-combustion engines. No. 1,379,327; May 24; v. 286; p. 745.
- Bachle, Andrew, Detroit, Mich. Manifold for internal-combustion engines. No. 1,397,482; Nov. 15.
- Bachman, Llewellyn T., Santa Cruz, assignor to Santa Cruz Portland Cement Co., San Francisco, Calif. Grinding-mill. No. 1,393,334; Oct. 11.
- Bachmann, Robert A., Newport, R. I. Clip for closing non-metallic collapsible tubes. No. 1,370,264; Mar. 1; v. 284; p. 97.
- Rachmann, Robert Alexander, Pittsburgh, Pa. Sprayer. No. 1,397,851; Nov. 22.
- Backer, Elmer F., assignor to Davenport Locomotive Works, Davenport, Iowa. Geared locomotive. No. 1,369,212; Feb. 22; v. 83; p. 599.
- Backer, Elmer F., assignor to Davenport Locomotive Works, Davenport, Iowa. Geared locomotive. No. 1,397,716; Nov. 22.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Catalytic material and making the same. No. 1,372,736; Mar. 29; v. 284; p. 777.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Producing catalyzers. No. 1,375,345; Apr. 19; v. 285; p. 483.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Treating distillery waste. No. 1,396,007; Nov. 8.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Producing organic acids. No. 1,396,008; Nov. 8.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Method of producing organic acids. No. 1,396,009; Nov. 8.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Method of producing organic acids. No. 1,396,010; Nov. 8.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for catalysis. No. 1,396,718; Nov. 8.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Purification of crystals containing foreign materials of a different specific gravity therefrom. No. 1,397,121; Nov. 15.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Catalyzer. No. 1,400,203; Dec. 13.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Catalyzer and catalyzer apparatus. No. 1,400,204; Dec. 13.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Continuous process for the manufacture of esters. No. 1,400,849; Dec. 20.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for the manufacture of esters. No. 1,400,850; Dec. 20.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Apparatus for the production of esters. No. 1,400,851; Dec. 20.
- Backhaus, Arthur A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Production of esters. No. 1,400,852; Dec. 20.
- Backhaus, A. A., Baltimore, and F. B. Arentz, Curtis Bay, Md., assignors to U. S. Industrial Alcohol Co. Making aldehydes. No. 1,388,841; Aug. 30; v. 289; p. 805.
- Backhaus, Arthur A., Baltimore, and F. B. Arentz, Curtis Bay, Md., assignors to U. S. Industrial Alcohol Co. Making catalyzers. No. 1,376,665; May 3; v. 286; p. 54.
- Backhaus, Arthur A., Baltimore, and F. B. Arentz, Curtis Bay, Md., assignors to U. S. Industrial Alcohol Co. Making aldehydes and separating the same from the other products formed. No. 1,400,205; Dec. 13.
- Backhaus, Arthur A., and C. Haner, Jr., Baltimore, Md., assignors to U. S. Industrial Alcohol Co. Treating distillery waste. No. 1,396,006; Nov. 8.
- Backlund, Oscar T., Deer Lodge, Mont. Sleigh attachment for automobiles. No. 1,394,514; Oct. 18.
- Backmann, Selina, Brooklyn, N. Y. Baby-envelop. No. 1,373,378; Mar. 29; v. 284; p. 905.
- Bäckström, Claes P., Skokloster, Sweden. Plowing-machine. No. 1,366,238; Jan. 18; v. 282; p. 508.
- Bäckström, Helge M., et al. (See Cederberg, Ivar W., assignor.)
- Backus, John C., assignor to Backus Novelty Company, Smethport, Pa. Check-lock. No. 1,373,112; Mar. 29; v. 284; p. 852.
- Backus Novelty Company. (See Backus, John C., assignor.)
- Backus, Peter J., Delphos, Ohio. Landing-station for aircraft. No. 1,388,319; Aug. 23; v. 289; p. 649.
- Bacon Bros. Company, The. (See Gillian, Herman A., assignor.)
- Bacon, Charles A., South Bend, Ind. Mechanism for raising and lowering working devices of agricultural implements. No. 1,400,342; Dec. 13.
- Bacon, Charles R., Los Angeles, Calif. Automatic-call clock. No. 1,380,311; May 31; v. 286; p. 1004.
- Bacon, Chester A., assignor to Bowen Products Corporation, Auburn, N. Y. Lubricating device. No. 1,366,860; Jan. 25; v. 282; p. 675.
- Bacon, Frank, Bayside, N. Y. Portable burglar-alarm. No. 1,389,178; Aug. 30; v. 289; p. 873.
- Bacon, George W., Grand Junction, Colo. Beehive. No. 1,370,775; Mar. 8; v. 284; p. 239.
- Bacon, Gilbert C., and W. C. Wilson, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del. Treating nitrocellulose and to a valuable nitrocellulose product resulting therefrom. No. 1,397,915; Nov. 22.
- Bacon, Hastings B., Virginia, Minn. Spring-mount for vehicles. No. 1,393,068; Oct. 11.
- Bacon Heater Manufacturing Company, The. (See Bacon, Joseph H., assignor.)
- Bacon, James, Los Angeles, Calif. Auxiliary air-intake for internal-combustion engines. No. 1,397,349; Nov. 15.



- Bacon, Joseph H., Lakewood, assignor to The Bacon Heater Manufacturing Company, Cleveland, Ohio. Gas-burner-attaching means. No. 1,387,827; Aug. 16; v. 289; p. 495.
- Bacon, Joseph H., Lakewood, assignor to The Bacon Heater Manufacturing Company, Cleveland, Ohio. Water-heating device. No. 1,399,918; Dec. 13.
- Bacon, Joseph H., Lakewood, assignor to The Bacon Heater Manufacturing Company, Cleveland, Ohio. Water-heating device. No. 1,399,919; Dec. 13.
- Bacon, Raymond F., and H. S. Davis, Pittsburgh, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex. Treatment of mined sulfur. No. 1,374,897; Apr. 19; v. 285; p. 397.
- Bacon, Raymond F., and H. S. Davis, Pittsburgh, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex. Treatment of mined sulfur. No. 1,374,898; Apr. 19; v. 285; p. 397.
- Bacon, Raymond F., and C. N. Wenrich, Pittsburgh, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex. Refining sulfur. No. 1,378,084; May 17; v. 286; p. 435.
- Bacon, William M., assignor to Enameled Steel Sign Company, Chicago, Ill. Printing-machine. No. 1,385,654; July 26; v. 288; p. 702.
- Bacot, Byron L., McComb, Miss. Roofing-tile. No. 1,391,603; Sept. 20; v. 290; p. 566.
- Bacsanyi, Geza, Detroit, Mich., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,388,320; Aug. 23; v. 289; p. 649.
- Badamo, Anthony. (See Dailing, John A., assignor.)
- Badder, Harry C., Bedford Park, London, assignor to S. F. Burrows and H. L. P. Allender, London, England. Composition for and the production of waterproof cements, concretes, and mortars. No. 1,396,546; Nov. 8.
- Baddiley, James. (See Levinstein, H., and Baddiley.)
- Badeker, John, assignor to Chicago Standard Metallic Packing Company, Omaha, Nebr. Metallic rod-packing. No. 1,370,679; Mar. 8; v. 284; p. 221.
- Badeker, John, assignor to Chicago Standard Metallic Packing Company, Omaha, Nebr. Metallic rod-packing. No. 1,376,131; Apr. 26; v. 285; p. 666.
- Badenhausen, John P., Philadelphia, Pa. Boiler. No. 1,374,484; Apr. 12; v. 285; p. 255.
- Bader, Walter, Manchester, assignor to Levinstein Limited, Blackley, Manchester, England. Production of aminoalkylesters and of alkylaminoalkylesters of para-aminobenzoic acid. No. 1,396,913; Nov. 15.
- Badger Manufacturing Corporation. (See Hathaway, C. H., Starck, and McEvoy, assignors.)
- Badger Manufacturing Corporation. (See Hathaway, Charles H., assignor.)
- Badger Manufacturing Corporation. (See Isgrig, Walter V., assignor.)
- Badger Metal Ware Company. (See Zimmermann, Henry W., and A. E., assignors.)
- Badger, Thomas N., Berkeley, Calif. Lathing. No. 1,372,387; Mar. 22; v. 284; p. 669.
- Badgley, Charles A. (See Jones, Llewellyn R., assignor.)
- Badois, Louis, and D. Kahn, Paris, France. Lock-screw. No. 1,394,880; Oct. 25.
- Baechtel, Warren M., *et al.* (See Myers, Jacob S., assignor.) (Reissue.)
- Baehr, Hermine, Baltimore, Md. Sterilizer. No. 1,372,388; Mar. 22; v. 284; p. 669.
- Baekeland, Leo H., Yonkers, assignor to General Bakelite Company, New York, N. Y. Molded article and making same. No. 1,372,114; Mar. 22; v. 284; p. 616.
- Baer, Berthold A., assignor to F. E. Campbell, New York, N. Y. Sealing means for burial-caskets. No. 1,371,720; Mar. 15; v. 284; p. 485.
- Baer, Carl J., Riverside, Ill. Boat. No. 1,395,889; Nov. 1.
- Baer, Carl J., St. Louis, Mo. Dredging system. No. 1,399,286; Dec. 6.
- Baer, Carl J., St. Louis, Mo. Boat. No. 1,400,787; Dec. 20.
- Baer, Edward G., assignor to The Will-Burt Company, Orrville, Ohio. Bracket. No. 1,375,888; Apr. 26; v. 285; p. 619.
- Baer, Lawrence E., assignor to The Baer & Wilde Company, Attleboro, Mass. Belt-fastener. No. 1,366,551; Jan. 25; v. 282; p. 614.
- Baer, Lawrence E., assignor to Baer & Wilde Company, Attleboro, Mass. Buckle. No. 1,381,690; June 14; v. 287; p. 311.
- Baer, Lawrence E., assignor to Baer & Wilde Company, Attleboro, Mass. Belt-buckle. No. 1,381,691; June 14; v. 287; p. 312.
- Baer, Richard, New York, N. Y. Permutation-lock. No. 1,391,357; Sept. 20; v. 290; p. 516.
- Baer, Richard, New York, N. Y. Permutation-lock. No. 1,391,359; Sept. 20; v. 290; p. 517.
- Baer, Richard, and H. Kopp, New York, N. Y. Locking device for motor-vehicles. No. 1,391,358; Sept. 20; v. 290; p. 517.
- Baer, Samuel L., Youngstown, Ohio. Combination armor and inner liner. No. 1,372,858; Mar. 29; v. 284; p. 802.
- Baer, Thomas, and W. H. Bitler, Terre Hill, Pa. Apparatus for use in assorting cigar-wrappers. No. 1,380,179; May 31; v. 286; p. 979.
- Baer, Walter C., Toledo, Ohio. Refrigeration apparatus. No. 1,386,753; Aug. 9; v. 289; p. 228.
- Baer & Wilde Company, The. (See Baer, Lawrence E., assignor.)
- Baerback, Hans, Hamilton, Ohio. Lathe. No. 1,369,157; Feb. 2; v. 283; p. 588.
- Baerwaldt, Erwin W., assignor to Farmers Barn Equipment Co., Stevens Point, Wis. Hinge. No. 1,387,962; Aug. 16; v. 289; p. 520.
- Baesel, William C., Providence, R. I. Washing-machine. No. 1,394,267; Oct. 18.
- Baeseemann, Arnold H., Rib Falls, Wis. Lamp-operating mechanism. No. 1,382,710; June 28; v. 287; p. 618.
- Baumle, John, Milwaukee, Wis. Resilient traction-wheel. No. 1,391,445; Sept. 20; v. 290; p. 535.
- Baewskin, Abraham J., Chicago, Ill. Composition. No. 1,396,495; Nov. 8.
- Bager, Frederic E., Kenosha, Wis., assignor to F. C. Austin, Chicago, Ill. Trenching-machine. No. 1,400,712; Dec. 20.
- Bagg, Hollis B., Watertown, assignor to Scovill Manufacturing Co., Waterbury, Conn. Spring. No. 1,388,913; Aug. 30; v. 289; p. 820.
- Bagley, John N., and W. M. Dutton, Hastings, Nebr. Grease-pump. No. 1,399,240; Dec. 6.
- Bagley and Sewall Company, The. (See Monaghan, Frank W., assignor.)
- Bagnall, Chandler, Battle Creek, Mich. Fruit receiving and conveying device. No. 1,380,033; May 31; v. 286; p. 952.
- Bagnall, James J., Days Bay, Wellington, New Zealand. Breakwater. No. 1,385,166; July 19; v. 288; p. 526.
- Bagnell, Christopher C., Duluth, Minn. Electric signal-switch. No. 1,396,088; Nov. 8.
- Bagnell, Thomas, Hemmingford, Quebec, Canada. Wheel-tire. No. 1,392,735; Oct. 4.
- Bagshaw, Charles M., assignor to The Gimson Shoe Machinery Co. Limited, Leicester, England. Pulling-over machine. No. 1,385,106; July 19; v. 288; p. 514.
- Bahl, Errold G., Lincoln, Nebr. Aeroplane-fitting. No. 1,369,374; Feb. 22; v. 283; p. 630.
- Bahr, Jacob S., North Venice, and M. E. Logue, East St. Louis, Ill. Carbureter attachment. No. 1,401,127; Dec. 27.
- Bahrenburg, Henry W., Newark, N. J. Ice and snow cutting implement. No. 1,378,577; May 17; v. 286; p. 528.
- Baier, Frank R., Chicago, Ill. Toy push-vehicle. No. 1,385,107; July 19; v. 288; p. 514.
- Baier, Frederick, Anderson, Ind. Ignition apparatus. No. 1,366,887; Jan. 25; v. 282; p. 681.
- Baier, L. Stanley, Portland, Oreg. Safety head-gear. No. 1,391,753; Sept. 27; v. 290; p. 670.
- Bail, Elmer E., Pittsburgh, Pa. Milk-bottle receptacle. No. 1,379,509; May 24; v. 286; p. 779.
- Bailey, Alfred J., Wanstead, London, England. Packing for stuffing-boxes and the like. No. 1,367,003; Feb. 1; v. 283; p. 24.
- Bailey, Anna D., assignor to G. H. Masten Co., Inc., New York, N. Y. Life-preserver. No. 1,366,344; Jan. 25; v. 282; p. 572.
- Bailey, Anna D., assignor to G. H. Masten Co., Inc., New York, N. Y. Life-preserver. No. 1,366,345; Jan. 25; v. 282; p. 572.
- Bailey, Anna D., assignor to G. H. Masten Co., Inc., New York, N. Y. Adjustable swimming-belt. No. 1,366,346; Jan. 25; v. 282; p. 572.
- Bailey, Anna D., assignor to G. H. Masten Co., Inc., New York, N. Y. Life-preserver. No. 1,366,347; Jan. 25; v. 282; p. 572.
- Bailey, Anna D., New York, N. Y. Adjustable and collapsible dress-form. No. 1,376,502; May 3; v. 286; p. 23.
- Bailey, Charles A., Cromwell, Conn. Toy pistol. No. 1,387,095; Aug. 9; v. 289; p. 298.
- Bailey, Charles A., Cromwell, Conn. Vibrating shell. No. 1,401,859; Dec. 27.
- Bailey, David, Salem, Ohio. Eraser and pencil holder. No. 1,379,608; May 31; v. 286; p. 872.
- Bailey, Edwin W., Amesbury, Mass. Window-glass channel. No. 1,374,629; Apr. 12; v. 285; p. 283.
- Bailey, Ervin G., Newton Highlands, Mass., assignor to Bailey Meter Company. Pressure-relief gage. (Reissue.) No. 15,079; Apr. 12; v. 285; p. 334.
- Bailey, Ervin G., Newton Highlands, Mass., assignor to Bailey Meter Company. Obtaining a ready comparison of factors in a power producing or using apparatus. (Reissue.) No. 15,080; Apr. 12; v. 285; p. 334.
- Bailey, Fred L., and J. H. La Grant, Wichita, Kans. Core for tire-casings. No. 1,399,180; Dec. 6.
- Bailey, George, and J. P. Nielsen, San Francisco, Calif. Display-rack. No. 1,395,239; Oct. 25.
- Bailey, George B., Linton, Ind. Electric train-stop. No. 1,376,245; Apr. 26; v. 285; p. 637.
- Bailey, George C., Woodcliff-on-Hudson, N. J., assignor to The Barrett Company. Purification of maleic acid by reducing agents. No. 1,401,937; Dec. 27.
- Bailey, George C., Woodcliff-on-Hudson, N. J., and F. Roettner, New York, N. Y., assignors to The Barrett Company. Waterproofing composition and process of making same. No. 1,364,475; Jan. 4; v. 282; p. 83.
- Bailey, George C., Woodcliff-on-Hudson, and A. E. Craver, Cliffside, N. J., assignors to The Barrett Company. Producing formaldehyde. No. 1,383,059; June 28; v. 287; p. 685.



## Alphabetical list of patentees—Continued.

- Bailey, Greenwood, assignor to H. F. Anderton, Bradford, England. Apparatus for drying yarn or the like. No. 1,383,510; July 5; v. 288; p. 52.
- Bailey, Harrison W., South Braintree, Mass. Type for printing tabular forms. No. 1,373,159; Mar. 29; v. 284; p. 862.
- Bailey, Horace E., Brookline, Mass. Bath-brush. No. 1,397,611; Nov. 22.
- Bailey, Israel S. (See Simmons, Charles B., assignor.)
- Bailey, James, Martel, Ohio. Onion-harvester. No. 1,386,222; Aug. 2; v. 289; p. 52.
- Bailey, James B., New York, N. Y. Ash-sifter. No. 1,373,379; Mar. 29; v. 284; p. 905.
- Bailey, Jessie, and S. Kelley, Clarinda, Iowa. Skirt-marker. No. 1,377,179; May 10; v. 286; p. 208.
- Bailey, John J., Harpenden, England. Device for distributing seed and the like. No. 1,383,281; July 5; v. 288; p. 4.
- Bailey Meter Company. (See Bailey, Ervin G., assignor.) (Reissue.)
- Bailey, Miles E., Ottawa, Ontario, Canada. Ejector for cigarette-holders. No. 1,385,031; July 19; v. 288; p. 498.
- Bailey, Percy T., Middletown, R. I. Fencepost attachment. No. 1,401,509; Dec. 27.
- Bailey, Percy S., Lynn, Mass., assignor to General Electric Company. Universal joint and shock-absorbing spring for headlights. No. 1,379,510; May 24; v. 286; p. 779.
- Bailey, Robert F., and R. T. Hoopingartner, Holly, Colo. Push-rod extractor. No. 1,372,389; Mar. 22; v. 284; p. 669.
- Bailey Smith E., Hunter, Kans. Trap. No. 1,366,049; Jan. 18; v. 282; p. 471.
- Bailey, Stephen L. (See Douglas, W. W., and Bailey.)
- Bailey, Stephen L., Kingswood, Bristol, England. Power-transmission clutch. No. 1,371,542; Mar. 15; v. 284; p. 451.
- Bailey, Theodorus S., Berkeley, Calif. Vessel-filling apparatus. No. 1,373,935; Apr. 5; v. 285; p. 109.
- Bailey, William E., Rock Island, Ill. Camera. No. 1,378,208; May 17; v. 286; p. 458.
- Bailhache, Nicholas, Berkeley, Calif. Mop-wringer. No. 1,388,688; Aug. 23; v. 289; p. 720.
- Baillio, Gervais, Philadelphia, Pa. Electrolytic cell. No. 1,385,655; July 26; v. 288; p. 702.
- Bailly, Armand, Paris, France. Pneumatic hammer. No. 1,391,162; Sept. 20; v. 290; p. 477.
- Bailly, Louis, assignor to The Columbus Oil Engine Company, Columbus, Ohio. Fuel-injector for two-stroke high-compression motors. No. 1,386,832; Aug. 9; v. 289; p. 244.
- Baily, Thaddeus F., and F. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Resistance element. No. 1,372,330; Mar. 22; v. 284; p. 658.
- Baily, Thaddeus F., and F. T. Cope, assignors to The Electric Furnace Company, Alliance, Ohio. Melting-furnace. No. 1,373,787; Apr. 5; v. 285; p. 78.
- Bain, Foreé, La Grange, Ill., assignor to The Miami Trailer Company. Camping-vehicle. No. 1,378,512; May 17; v. 286; p. 516.
- Bain, Frederick, *et al.* (See Wickstrom, Alfred, assignor.)
- Bain, James E., *et al.* (See Wickstrom, Alfred, assignor.)
- Bain, Nathaniel M., Oak Grove, Oreg. Segregating-nest. No. 1,395,078; Oct. 25.
- Bainbridge, George K., Ripon, Calif. Candy-cutting machine. No. 1,368,685; Feb. 15; v. 283; p. 458.
- Baines Engineering Company, The. (See Baines, Henry C., assignor.)
- Baines, Henry C., East Cleveland, assignor to The Baines Engineering Company, Canal Dover, Ohio. Tractor. No. 1,389,851; Sept. 6; v. 290; p. 59.
- Baines, Henry C., Cleveland, assignor to The Baines Engineering Company, Canal Dover, Ohio. Self-propelled agricultural implement. No. 1,399,040; Dec. 6.
- Bair, Dean L., Portland, Oreg. Washing-machine. No. 1,391,754; Sept. 27; v. 290; p. 670.
- Bair, Joseph H., Haddonfield, N. J. Rotary internal-combustion engine. No. 1,377,383; May 10; v. 286; p. 249.
- Bair, Joseph H., assignor of five-twentieths to L. H. Taylor, Jr., three-twentieths to J. O. David, and two-twentieths to W. C. Haddock, Philadelphia, Pa. Calculating-machine. No. 1,371,138; Mar. 8; v. 284; p. 308.
- Baird, Benjamin F., Hollidaysburg, Pa. Tool. No. 1,375,547; Apr. 19; v. 285; p. 522.
- Baird, Cora E., Long Beach, Calif. Armchair and bed. No. 1,395,465; Nov. 1.
- Baird Corn Husker Co. (See Baird, William S., assignor.)
- Baird-Daniels Co., *et al.* (See Popper, Joseph, assignor.)
- Baird Demountable Rim Lock Company. (See Baird, Robert M., assignor.)
- Baird, Dudley, Berkeley, Calif., assignor to General Chemical Company, New York, N. Y. Metallurgical furnace. No. 1,375,346; Apr. 19; v. 285; p. 483.
- Baird, Frank T., Blue Island, Ill. Battery and separator therefor. (Reissue.) No. 15,067; Mar. 22; v. 284; p. 721.
- Baird, Fred J. (See Grob, A., Keck, and Baird.)
- Baird, Melville B., Kansas City, Mo., assignor of one-half to J. C. W. Bland, Tulsa, Okla. Vending-machine. No. 1,385,419; July 26; v. 288; p. 653.
- Baird, Melville B., and G. A. Walls, Kansas City, Mo.; said Walls assignor, by mesne assignments, of his right to J. C. W. Bland, Tulsa, Okla. Sanitary drinking-cup. No. 1,378,310; May 17; v. 286; p. 478.
- Baird, Robert E., Salt Lake City, Utah. Demountable hub attaching device. No. 1,382,160; June 21; v. 287; p. 459.
- Baird, Robert M., Salt Lake City, Utah. Demountable-rim lock for vehicle-wheels. No. 1,390,186; Sept. 6; v. 290; p. 126.
- Baird, Robert M., assignor to Baird Demountable Rim Lock Company, Salt Lake City, Utah. Demountable-rim lock. No. 1,390,187; Sept. 6; v. 290; p. 127.
- Baird, Walter. (See Cardwell, Charles E., assignor.)
- Baird, William J., Detroit, Mich. Molding-machine. No. 1,379,328; May 24; v. 286; p. 745.
- Baird, William S., Decatur, assignor to Baird Corn Husker Co., Champaign, Ill. Husking-machine. No. 1,382,264; June 21; v. 287; p. 478.
- Baits, Stuart G. (See Fekete, S. I., and Baits.)
- Baity, Delbert R., Xenia, Ill. Umbrella-draining cup. No. 1,369,603; Feb. 22; v. 283; p. 675.
- Baivier, Felix J. (See Abern, H. C., and Baivier.)
- Bajett, Louis, New York, N. Y. Cloth-sponging machine. No. 1,387,449; Aug. 16; v. 289; p. 417.
- Bak, Jozef, Chicago, Ill. Baby-carriage. No. 1,372,588; Mar. 22; v. 284; p. 708.
- Bake-Rite Oven Manufacturing Company. (See Lindsey, Ernest E., assignor.)
- Baker, A. T., and Company. (See Ott, Frederick, assignor.)
- Baker, Anna, assignor of one-half to E. Baker, Baltimore, Md. Bodkin. No. 1,390,864; Sept. 13; v. 290; p. 354.
- Baker, Arthur R., assignor, by mesne assignments, to C. G. McCutchen, Indianapolis, Ind. Igniter trip mechanism. No. 1,388,689; Aug. 23; v. 289; p. 720.
- Baker, Bernt, Highland Park, Mich. Safety-stirrup. No. 1,392,673; Oct. 4.
- Baker, Burton W., Silesia, Mont. Harvester attachment. No. 1,387,680; Aug. 16; v. 289; p. 464.
- Baker Casing Shoe Company. (See Baker, Reuben C., assignor.)
- Baker, Charles H., Pittsburgh, Pa. Spraying device. No. 1,364,424; Jan. 4; v. 282; p. 73.
- Baker, Charles I., St. Paul, Minn. Automatic hot-water heater. No. 1,376,853; May 3; v. 286; p. 90.
- Baker, Charlie B., Amory, Miss. Toothbrush-holder. No. 1,397,350; Nov. 15.
- Baker, Clinton C., assignor of one-half to T. L. Bonsall, Ottawa, Ontario, Canada. Detergent. No. 1,378,311; May 17; v. 286; p. 478.
- Baker & Company. (See Carter, Frederic E., assignor.)
- Baker & Company. (See Van Allen, George L., assignor.)
- Baker, David B., Hoquiam, Wash. Auto-jack and power plant. No. 1,373,585; Apr. 5; v. 285; p. 40.
- Baker, David C., East Orange, N. J. Paper head-rest for chairs. No. 1,372,989; Mar. 29; v. 284; p. 829.
- Baker, Dickerson G. (See Clay, W. L., Beatty, and Baker.)
- Baker-Dunbar-Allen Company. (See Allen, F. B., and Sherman, assignors.)
- Baker, Edva. (See Baker, Anna, assignor.)
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Demountable-rim construction. No. 1,368,419; Feb. 15; v. 283; p. 405.
- Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Manufacturing wheels. No. 1,368,420; Feb. 15; v. 283; p. 405.
- Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Semiwood wheel construction. No. 1,368,421; Feb. 15; v. 283; p. 406.
- Baker, Erle K., assignor to Universal Rim Company, Chicago, Ill. Demountable-rim construction. No. 1,399,041; Dec. 6.
- Baker, Erle K., assignor to Baker Wheel & Rim Company, Chicago, Ill. Wheel for automobiles. No. 1,399,720; Dec. 6.
- Baker, Eugene L., Taunton, Mass. Range. No. 1,379,954; May 31; v. 286; p. 937.
- Baker, Frank, Pimlico, London, England. Parachute. No. 1,390,598; Sept. 13; v. 290; p. 300.
- Baker, Frank E., and T. J. Biggs, Birmingham, England. Spring-mounting for motorcycle front wheels. No. 1,401,032; Dec. 20.
- Baker, Franklin Company, The. (See Baker, F., Jr., and Cooper, assignors.)
- Baker, Franklin, Jr., Philadelphia, Pa. Removing cocoanut-shells. No. 1,374,899; Apr. 19; v. 285; p. 397.
- Baker, Franklin, Jr., Philadelphia, Pa., and S. Cooper, New York, N. Y., assignors to The Franklin Baker Company, Philadelphia, Pa. Removing shells from cocoanuts. No. 1,380,859; June 7; v. 287; p. 103.
- Baker, George C., Bayonne, N. J. Boiler construction. No. 1,384,657; July 12; v. 288; p. 340.
- Baker, Gwyneth D., Brookline, Mass. Table. No. 1,369,214; Feb. 22; v. 283; p. 599.
- Baker, Harold T., assignor to The Management Engineering and Development Company, Dayton, Ohio. Hood-insulating means for drying-machines. No. 1,397,309; Nov. 15.
- Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Hydrocarbon-burner. No. 1,369,074; Feb. 22; v. 283; p. 572.



- Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Steam-condensing apparatus. No. 1,375,272; Apr. 19; v. 285; p. 469.
- Baker, Hartley O., assignor to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Valve-gear. No. 1,395,331; Nov. 1.
- Baker, Hartley O., and W. P. Cook, assignors to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Steam-condenser. No. 1,384,737; July 19; v. 288; p. 437.
- Baker, Henry F. (See Smith, Harold J., assignor.)
- Baker Ice Machine Company. (See Hoeschen, Henry A., assignor.)
- Baker, Ira F. (See Meaker, A. P., and Baker.)
- Baker, James E., assignor of one-half to J. W. Taggart, Watertown, N. Y. Window-guard. No. 1,393,192; Oct. 11.
- Baker, James H., Saratoga Springs, N. Y. Winder-shaft. No. 1,397,310; Nov. 15.
- Baker, James M. and W. A., Cedar Rapids, Iowa. Tire-remover. No. 1,369,770; Mar. 1; v. 284; p. 3.
- Baker, Jesse F. (See Day, Charles B., and L. F., and Baker.)
- Baker, John. (See Vander Slik, Thomas P., assignor.)
- Baker, John C., Ridgefield Park, N. J. Bleaching and maturing flour and other cereal products. No. 1,367,530; Feb. 8; v. 283; p. 187.
- Baker, John C., Ridgefield Park, N. J. Sterilizing. No. 1,378,644; May 17; v. 286; p. 542.
- Baker, John M., Columbus, Ohio. Washing-machine. No. 1,393,659; Oct. 11.
- Baker, Joseph C., Syracuse, N. Y. Absorbent pad. No. 1,370,081; Mar. 1; v. 284; p. 62.
- Baker, Julian M., Tarboro, N. C. Tire-armor. No. 1,384,817; July 19; v. 288; p. 453.
- Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Setting mechanism for indicating-registers. No. 1,379,738; May 31; v. 286; p. 896.
- Baker, Linnaeus E., assignor to Wayne Oil Tank & Pump Company, Fort Wayne, Ind. Pump. No. 1,382,450; June 21; v. 287; p. 515.
- Baker, Linnaeus E., assignor to Wayne Oil Tank & Pump Company, Fort Wayne, Ind. Constant-flow-measuring pump. No. 1,382,451; June 21; v. 287; p. 515.
- Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Float-register. No. 1,393,069; Oct. 11.
- Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Mechanical cut-out for float-meters. No. 1,393,421; Oct. 11.
- Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Self-measuring liquid-dispensing apparatus. No. 1,395,696; Nov. 1.
- Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Locking control for power-operated measuring and dispensing apparatus. No. 1,395,697; Nov. 1.
- Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Automatic drain-back for elevated liquid-containers. No. 1,395,890; Nov. 1.
- Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Setting-latch. No. 1,395,891; Nov. 1.
- Baker, Linnaeus E., assignor to Wayne Oil Tank & Pump Company, Fort Wayne, Ind. Check-valve. No. 1,400,011; Dec. 13.
- Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Deflector for filippes. No. 1,400,511; Dec. 20.
- Baker, Littleton S., and W. A. Tabor, Pasadena, Calif. Automobile-lock. No. 1,364,539; Jan. 4; v. 282; p. 96.
- Baker, Malcolm H., deceased, Braintree, Mass.; M. H. Baker, administrator, assignor, by mesne assignments, to Tremont Products Company. Time-retarded lamp-extinguishing device. No. 1,388,504; Aug. 23; v. 289; p. 685.
- Baker Manufacturing Company. (See Liddell, Michael V., assignor.)
- Baker, Marie H., administratrix. (See Baker, Malcolm H.)
- Baker, Mark, assignor to Worcester Pressed Aluminum Company, Worcester, Mass. Chain-attaching device. No. 1,385,032; July 19; v. 288; p. 498.
- Baker, Morvan N., Dorchester, Nebr. Hoisting apparatus. No. 1,377,744; May 10; v. 286; p. 316.
- Baker, Murray & Imbrie. (See Warden, William S., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Ayer, Edward M., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Ball, Benjamin H., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Buckendale, Lawrence R., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Butler, John S., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Cook, Clarence A., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Holmes, Bradford B., assignor.)
- Baker, Newton D., Secretary of War, United States of America, trustee. (See Holmes, Bradford B., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Josephs, Lyman C., Jr., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Mann, Randolph M., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Oppenheimer, Edgar A., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Peoples, John S., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Swan, John H., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Taylor, Maurice C., assignor.)
- Baker, Newton D., trustee. (See Alden, Herbert W., assignor.)
- Baker, Newton D., trustee. (See Bovard, William M., assignor.)
- Baker, Paul S. (See Vance, O. E., and Baker.)
- Baker-Perkins Manufacturing Corporation. (See Gase, Eugene, assignor.)
- Baker, Raymond D. (See Davis, E. H., and Baker.)
- Baker, Reuben C., assignor to Baker Casing Shoe Company, Coalinga, Calif. Casing-plug. No. 1,392,619; Oct. 4.
- Baker, Robert D., Detroit, Mich. Paving apparatus. No. 1,388,690; Aug. 23; v. 289; p. 721.
- Baker, Robert D., Detroit, Mich. Paving apparatus. No. 1,390,479; Sept. 13; v. 290; p. 276.
- Baker, Robert D., Detroit, Mich. Grading roadbeds for concrete roads. No. 1,392,674; Oct. 4.
- Baker, Robert W., assignor of one-half to M. W. Cochrane, Omaha, Nebr. Piston-ring. No. 1,377,151; May 3; v. 286; p. 147.
- Baker Steam Motor Car and Manufacturing Co., The. (See Baker, H. O., and Cook, assignors.)
- Baker Steam Motor Car and Manufacturing Co., The. (See Baker, Hartley O., assignor.)
- Baker, Thomas F. (See Rutherford, J., and Baker.)
- Baker, Thomas Y. (See Hughes, H. A., and Baker.)
- Baker-Vawter Company. (See Manny, Fred L., assignor.)
- Baker, Walter C., assignor to The Standard Parts Company, Cleveland, Ohio. Bearing. No. 1,365,763; Jan. 18; v. 282; p. 415.
- Baker, Walter C., Lakewood, assignor to J. J. Tracy, Cleveland, Ohio. Steering mechanism for tractors. No. 1,370,579; Mar. 8; v. 284; p. 201.
- Baker, Walter C., assignor to The Standard Parts Company, Cleveland, Ohio. Brake. No. 1,385,420; July 26; v. 288; p. 653.
- Baker, Walter J., Chicago, Ill. Automatic stop for phonographs. No. 1,382,405; June 21; v. 287; p. 506.
- Baker, Walter W., and F. W. Franklin, Syracuse, N. Y. Self-centering tool-holder. No. 1,376,791; May 3; v. 286; p. 77.
- Baker, Webster E. B., and H. Weaver, York Haven, Pa. Fusible odorless resinous composition and making same. No. 1,373,044; Mar. 29; v. 284; p. 839.
- Baker Wheel & Rim Company. (See Baker, Erle K., assignor.)
- Baker Wheel & Rim Company. (See Hawley, Charles G., assignor.)
- Baker, William A. (See Baker, James M. and W. A.)
- Baker, William E., Rock Island, Ill. Fluid-pressure engine. No. 1,391,446; Sept. 20; v. 290; p. 535.
- Baker, William E., assignor to Wonder Trap Co., Inc., Waco, Tex. Wire fabric. No. 1,375,810; Apr. 26; v. 285; p. 603.
- Bakerman, Abraham M., New York, N. Y. Neckscarf. No. 1,396,240; Nov. 8.
- Bakovich, Joseph, Herminie, Pa. Supporting device. No. 1,372,990; Mar. 29; v. 284; p. 829.
- Bakovich, Joseph, Herminie, Pa. Rail-joint and fastener therefor. No. 1,374,804; Apr. 12; v. 285; p. 317.
- Bakovich, Joseph, Herminie, Pa. Self-leveling apparatus. No. 1,382,711; June 28; v. 287; p. 618.
- Bakstad, Johan R., assignor to Holden & White, Inc., Chicago, Ill. Electric heater. No. 1,396,241; Nov. 8.
- Bakstad, Johan R., assignor to Holden & White, Inc., Chicago, Ill. Electric heater. No. 1,398,167; Nov. 22.
- Bakstad, Johan R., assignor to Holden & White, Inc., Chicago, Ill. Electric heater. No. 1,398,168; Nov. 22.
- Balazs, John, Brantford, Ontario, Canada. Automatic door-opening device. No. 1,399,733; Dec. 13.
- Balch, Eben G., Newburyport, Mass. Manual controlling means for vehicle-signals. No. 1,368,095; Feb. 8; v. 283; p. 294.
- Balch, Samuel W., Montclair, N. J. Hand-setting mechanism for timepieces. No. 1,375,347; Apr. 19; v. 285; p. 484.
- Balch, Samuel W., Montclair, N. J. Hand-setting mechanism for timepieces. No. 1,375,348; Apr. 19; v. 285; p. 484.
- Balch, Samuel W., Montclair, N. J. Geographical clock. No. 1,378,085; May 17; v. 286; p. 435.
- Balch, Samuel W., Montclair, N. J. Ship's-bells clock. No. 1,378,438; May 17; v. 286; p. 502.
- Balcke, Walter H., Winchester, and W. A. Ready, Brighton, assignors to National Company, Boston, Mass. Amusement apparatus. No. 1,397,832; Nov. 22.
- Balcker, Martin. (See Glasner, R. W., and Balcker.)
- Balcker, Martin, Chicago, Ill., assignor to Marquette Tool & Mfg. Co. Multiple-drill-press-controlling means. No. 1,401,388; Dec. 27.



## Alphabetical list of patentees—Continued.

- Balderson, David N., Philadelphia, Pa., assignor, by mesne assignments, to Electro Dynamic Company. Generator suspension. No. 1,397,122; Nov. 15.
- Balderston, William, assignor to French Battery & Carbon Co., Madison, Wis. Dry cell. No. 1,380,034; May 31; v. 286; p. 952.
- Baldi, Giovanni, Chicago, Ill. Extension-table. No. 1,376,246; Apr. 26; v. 285; p. 687.
- Balduff, Bruno E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Capstan. No. 1,386,677; Aug. 9; v. 289; p. 212.
- Baldus, Paul C., Milwaukee, Wis. Forming wrench-sockets. No. 1,375,767; Apr. 26; v. 285; p. 595.
- Baldwin, Abram T., deceased, Detroit, Mich.; C. P. Baldwin, executrix. Differential gage. No. 1,394,660; Oct. 25.
- Baldwin, Abram T., deceased, Detroit, Mich.; C. P. Baldwin, executrix. Differential gage. No. 1,394,661; Oct. 25.
- Baldwin, Catherine P., executrix. (See Baldwin, Abram T.)
- Baldwin, Charles E., Jamestown, assignor to Regstrometer Company, Buffalo, N. Y. Measuring-machine. No. 1,379,159; May 24; v. 286; p. 712.
- Baldwin Company, The. (See Tower, Herschel E., assignor.)
- Baldwin Eraser Company, The. (See Baldwin, John H., assignor.)
- Baldwin, Henry S., Lynn, Mass., assignor to General Electric Company. Mobile generator outfit. No. 1,380,942; June 7; v. 287; p. 118.
- Baldwin, James L., Chicago, Ill. Cash-carrier. No. 1,388,791; Aug. 23; v. 289; p. 741.
- Baldwin, Jesse, assignor to B. C. Case, Detroit, Mich. Carburetor. No. 1,373,644; Apr. 5; v. 285; p. 61.
- Baldwin, John H., assignor to the Baldwin Eraser Company, Chicago, Ill. Erasing device. No. 1,399,734; Dec. 13.
- Baldwin, Lawrence G., Eastland, Tex. Collar-button. No. 1,382,452; June 21; v. 287; p. 515.
- Baldwin Locomotive Works, The. (See Abbe, George C., assignor.)
- Baldwin Locomotive Works, The. (See Holloway, Jesse F., assignor.)
- Baldwin Locomotive Works, The. (See Sykes, John P., assignor.)
- Baldwin Locomotive Works, The. (See Wallace, Allen, assignor.)
- Baldwin, Nathaniel, East Mill Creek, Utah. Pneumatic tire. No. 1,389,024; Aug. 30; v. 289; p. 843.
- Baldwin, Tracy C. (See Tuttle, E. H., Miller, and Tuttle.)
- Baldwin, Walter A. (See Albrecht, N. H., and Baldwin.)
- Baldwin, William C., Ottawa, Ontario, Canada. Electrical drier for paper and the like. No. 1,401,303; Dec. 27.
- Baldwin, William J., Brooklyn, N. Y. Process and apparatus for separating moisture from gas. No. 1,393,335; Oct. 11.
- Baldwin, William W., Deskins, Va. Thermal circuit-controller. No. 1,383,060; June 28; v. 287; p. 685.
- Balfour, Arthur. (See MacGregor, P., and Balfour.)
- Balinsky, Abraham, New York, N. Y. Embroidering-machine. No. 1,371,838; Mar. 15; v. 284; p. 507.
- Balint, Anthony, New York, N. Y. Shade-holder. No. 1,373,288; Mar. 29; v. 284; p. 887.
- Balk, Fred C., et al. (See Donner, Stephen, assignor.)
- Balkley, George J., Glenshaw, Pa. Thimble. No. 1,394,394; Oct. 18.
- Balkwill, Stephen, Cleveland, Ohio. Railway-crossing. No. 1,367,004; Feb. 1; v. 283; p. 24.
- Ball, Albert, Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,365,881; Jan. 18; v. 282; p. 439.
- Ball, Albert P. (See Horton, B. D., Ball, and Zenker.)
- Ball, Albert P., Royal Oak, assignor to Square D Company, Detroit, Mich. Center stop and outside lock-off for electrical switch. No. 1,383,781; July 5; v. 288; p. 109.
- Ball, Albert P., Royal Oak, assignor to Square D Company, Detroit, Mich. Quick-break double-throw switch. No. 1,400,343; Dec. 13.
- Ball, Augustus A., Lynn, Mass. Lock-nut. No. 1,389,927; Sept. 6; v. 290; p. 75.
- Ball & Ball Carburetor Company. (See Ball, Frank H., assignor.)
- Ball & Ball Carburetor Company. (See Ball, Frank H. and F. O., assignors.)
- Ball & Ball Carburetor Company. (See Ball, Frederick O., assignor.)
- Ball, Benjamin H., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Firearm. No. 1,398,085; Nov. 22.
- Ball Brothers Glass Manufacturing Company. (See Wadsworth, Frank L. O., assignor.)
- Ball, Charles F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Auto-tractor. No. 1,387,033; Aug. 9; v. 289; p. 285.
- Ball, Clarence F., Rutland, Vt. Portable cot for use with automobiles. No. 1,401,938; Dec. 27.
- Ball, Edwin L., Alexandria, La. Spring-shackle. No. 1,370,623; Mar. 8; v. 284; p. 210.
- Ball Engine Company. (See Armstrong, Edwin J., assignor.)
- Ball, Frank, Farmingdale, Long Island, N. Y., assignor to West Coast Kalsomine Company, West Berkeley, Calif. Manufacturing iron compounds. No. 1,385,769; July 26; v. 288; p. 725.
- Ball, Frank H., assignor to Ball & Ball Carburetor Company, Detroit, Mich. Carburetor. No. 1,391,930; Sept. 27; v. 290; p. 706.
- Ball, Frank H. and F. O., assignors to Ball & Ball Carburetor Company, Detroit, Mich. Carburetor-control mechanism. No. 1,391,931; Sept. 27; v. 290; p. 706.
- Ball, Frederick O. (See Ball, Frank H. and F. O.)
- Ball, Frederick O., assignor to Ball & Ball Carburetor Company, Detroit, Mich. Reatomizer. No. 1,392,473; Oct. 4.
- Ball, George, Philadelphia, Pa., assignor to Whiting-Patterson Company, Incorporated. Envelop-machine. No. 1,365,580; Jan. 11; v. 282; p. 340.
- Ball, George S., assignor to E. R. Melton and J. C. Jenkins, Washington, D. C. Liner-trimming gage. No. 1,397,612; Nov. 22.
- Ball, Henry P., Brooklyn, assignor to S. Sternau & Co., Inc., New York, N. Y. Grid or grill. No. 1,373,788; Apr. 5; v. 285; p. 79.
- Ball, Henry P., assignor to S. Sternau & Company, Inc., Brooklyn, N. Y. Burner for vapor-stoves. No. 1,389,614; Sept. 6; v. 290; p. 11.
- Ball, John E., Council Bluffs, Iowa. Signal. No. 1,375,936; Apr. 5; v. 285; p. 109.
- Ball, John P., Chicago, Ill. Treating sewage. No. 1,364,675; Jan. 4; v. 282; p. 121.
- Ball, John F., Estep, W. Va. Wire-fence stretcher. No. 1,387,338; Aug. 9; v. 289; p. 345.
- Ball, John P., Chicago, Ill. Safety appliance for aeroplanes. No. 1,369,158; Feb. 22; v. 283; p. 588.
- Ball, John P., Chicago, Ill. Sewage-purifier. No. 1,371,406; Mar. 15; v. 284; p. 424.
- Ball and Roller Bearing Company, The. (See Heim, Lewis R., assignor.) (Reissue.)
- Ballantine, William B. (See Sulman, H. L., and Ballantine.)
- Ballantine, William B., assignor to The Empire (Alloy) Steel Corporation, Limited, London, England. Production of metallic alloys. No. 1,386,981; Aug. 9; v. 289; p. 274.
- Ballantyne, John A., London, England. Toy engine. No. 1,394,136; Oct. 18.
- Ballard, Albert M. (See Oberfell, G. G., and Ballard.)
- Ballard, Asa H., Fort Morgan, Colo. Beet-topping machine. No. 1,368,471; Feb. 15; v. 283; p. 416.
- Ballard, Harrie A., Boston, assignor to The Phonograph Company, East Boston, Mass. Inverted keyed zither. No. 1,376,738; May 3; v. 286; p. 67.
- Ballard, Harry E., Holyoke, assignor to The Coburn Trolley Track Manufacturing Company, Chicopee, Mass. Mounting for trolley-switches. No. 1,377,653; May 10; v. 286; p. 299.
- Ballard, Herbert T., Norristown, Pa. Knitting-machine and fabric. (spot effect.) No. 1,397,069; Nov. 15.
- Ballard, Herbert T., Norristown, Pa. Knitting-machine. No. 1,397,070; Nov. 15.
- Ballard Knitting Co. (See Reynolds, Frank P., assignor.)
- Ballard, Marvin K., Belmont, N. C. Slubbing-machine. No. 1,379,511; May 24; v. 286; p. 779.
- Ballard, Robley D., St. Petersburg, Fla. Adjustable tractive attachment for traction-wheels. No. 1,376,792; May 3; v. 286; p. 78.
- Ballas, Charles P., et al. (See Mamalakis, John E., assignor.)
- Ballenger, Daniel, assignor of one-half to J. B. Williams, Greeley, Colo. Calk-fastener. No. 1,393,934; Oct. 18.
- Ballew, Benjamin D. (See Reynolds, R. N., and Ballew.)
- Ballet, Herbert S. (See Solan, P. F., and Ballet.)
- Ballin, Joseph, Dubuque, Iowa. Hobbyhorse. No. 1,376,132; Apr. 26; v. 285; p. 666.
- Ballinger, Walter F., Philadelphia, Pa., and C. H. Shivers, Woodbury, N. J., assignors, by mesne assignments, to said Ballinger. Roof structure. (Reissue.) No. 1,513,33; June 28; v. 287; p. 725.
- Ballman, Edwin C., Kirkwood, Mo. Piston-ring. No. 1,369,075; Feb. 22; v. 283; p. 572.
- Ballman, Edwin C., assignor to S. A. Whitten, St. Louis, Mo. Electric meter. No. 1,393,737; Oct. 18.
- Ballou, Eugene. (See Rose, Charles B., assignor.)
- Ballou, Frank. (See Kuchta, D. M., and Ballou.)
- Ballou, Harold G., Los Angeles, Calif. Tire-cleaning apparatus. No. 1,365,581; Jan. 11; v. 282; p. 340.
- Ballou, Harold G., Los Angeles, Calif. Process of and mold for rebuilding tires. No. 1,374,805; Apr. 12; v. 285; p. 317.
- Ballou, John M. (See Balzer, V. W., and Ballou.)
- Ballou, Russell A. (See Williams, David C., assignor.)
- Ballow, B. A., & Co. (See Morehouse, Eugene, assignor.)
- Balmos, Edward J., Devine, Tex. Steering attachment for automobiles. No. 1,396,722; Nov. 15.
- Balod, Edward, New York, N. Y. Combination-saw. No. 1,385,855; July 26; v. 288; p. 742.
- Balon, Joseph, Staunton, Ill. Bird-aeroplane. No. 1,377,384; May 10; v. 286; p. 249.
- Balough, Charles, assignor to The Hercules Motor Manufacturing Company, Canton, Ohio. Oil-sealing device. No. 1,391,293; Sept. 20; v. 290; p. 503.
- Balough, Emory, Poughkeepsie, N. Y. Automobile-window-operating device. No. 1,393,484; Oct. 11.



- Balsillie, John G., Melbourne, Victoria, assignor to Flat-lite Limited, Sydney, New South Wales, Australia. Reflector for use in light-projectors. No. 1,390,747; Sept. 13; v. 290; p. 330.
- Balsley, Frederick M., Madison, Wis. Culvert-cleaning hoe. No. 1,376,995; May 3; v. 286; p. 117.
- Baltensweiler, Adolf. (See Mayer, H., Schlatter, and Baltensweiler.)
- Balthasar, Arthur, Montclair, N. J. Lacing-closure. No. 1,398,995; Dec. 6.
- Baltimore Oil Engine Company. (See Wygodsky, Leon, assignor.)
- Baltimore Tube Company. (See Morse, Charles S., assignor.)
- Baltzley, Louis E., Glen Ridge, N. J. Binder. No. 1,388,140; Aug. 16; v. 289; p. 555.
- Baltzley, Oren F., Hagerstown, Md. Feeding mechanism. No. 1,375,889; Apr. 26; v. 285; p. 619.
- Balzer, Fritz, assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Reversing mechanism for cylinder washing-machines. No. 1,376,393; May 3; v. 286; p. 3.
- Balzer, Fritz, assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Drier. No. 1,380,343; June 7; v. 287; p. 4.
- Balzer, Vernon W., and J. M. Ballou, Los Angeles, Calif. Mechanical movement. No. 1,372,331; Mar. 22; v. 284; p. 658.
- Balzer, Vernon W., and J. M. Ballou, assignors to Western Aircraft Corporation, Inc., Los Angeles, Calif. Internal-combustion engine. No. 1,375,651; Apr. 19; v. 285; p. 541.
- Balzer, Vernon W., and J. M. Ballou, assignors to Western Aircraft Corporation, Los Angeles, Calif. Internal-combustion engine. No. 1,376,133; Apr. 26; v. 285; p. 666.
- Bamberger, L., & Company. (See Kaskell, Chester C., assignor.)
- Bamboo Paper Company. (See Jardine, James L., assignor.)
- Bamford, Cyril J. (See Bamford, Joseph and C. J.)
- Bamford, Joseph and C. J., Uttoxeter, England. Motor-tractor. No. 1,384,986; July 19; v. 288; p. 489.
- Bamford, Joseph and C. J., Uttoxeter, England. Motor-driven agricultural implement, traction-engine, motor-lorry, and the like. No. 1,400,012; Dec. 13.
- Bamforth, Thomas H., North Vancouver, British Columbia, Canada. Toy. No. 1,383,061; June 28; v. 287; p. 685.
- Bamforth, Thomas H., North Vancouver, assignor of one-half to R. M. Rawlings, Vancouver, British Columbia, Canada. No. 1,388,505; Aug. 23; v. 289; p. 685.
- Banaszak, John, Ironwood, Mich. Boat-stabilizing device. No. 1,371,139; Mar. 8; v. 284; p. 308.
- Banbury, Fernley H., Ansonia, assignor to Birmingham Iron Foundry, Derby, Conn. Machine for treating rubber and other heavy plastic materials. No. 1,370,398; Mar. 1; v. 284; p. 121.
- Banbury, Fernley H., Ansonia, assignor to Birmingham Iron Foundry, Derby, Conn. Machine for treating rubber and other heavy plastic material. No. 1,390,976; Sept. 20; v. 290; p. 439.
- Bancel, Paul A., Nutley, assignor to Ingersoll-Rand Company, Jersey City, N. J. Jet-condenser. No. 1,379,955; May 31; v. 286; p. 937.
- Bancel, Paul A., Nutley, assignor to Ingersoll-Rand Company, Jersey City, N. J. Method and apparatus for devaporizing and cooling. No. 1,380,460; June 7; v. 287; p. 26.
- Bancroft, Erwin P., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Selecting mechanism. No. 1,374,630; Apr. 12; v. 285; p. 283.
- Bancroft, Frank H., assignor to P. Derby & Company, Gardner, Mass. Joint. No. 1,391,163; Sept. 20; v. 290; p. 477.
- Bancroft, Frank H., assignor to P. Derby & Company, Gardner, Mass. Automatic turning-machine. No. 1,400,013; Dec. 13.
- Bancroft, George J., Denver, Colo. Splitting mica. No. 1,383,370; July 5; v. 288; p. 24.
- Bancroft, Wilder D., Ithaca, N. Y. Manufacture of carbon-black and other solid reaction products. No. 1,390,480; Sept. 13; v. 290; p. 276.
- Band, Stephen W. (See Hackett, William, assignor.)
- Bandell, Nathan, New York, N. Y. Snap ornament fastener. No. 1,368,878; Feb. 15; v. 283; p. 495.
- Bandle, Chester R., Los Angeles, Calif. Piston. No. 1,377,453; May 10; v. 286; p. 262.
- Bandoly, Erich A. M., Chicago, Ill. Anchoring device. No. 1,373,645; Apr. 5; v. 285; p. 51.
- Bandy, William B., assignor of forty-nine one-hundredths to W. H. Jackson, Crossville, Tenn. Dirigible headlight. No. 1,364,066; Jan. 4; v. 282; p. 3.
- Bandy, William B., assignor of forty-nine one-hundredths to W. H. Jackson, Crossville, Tenn. Wrench. No. 1,368,380; Feb. 15; v. 283; p. 398.
- Ranfield, Edwin F., Atlantic Highlands, N. J. Elevator control. No. 1,386,223; Aug. 2; v. 289; p. 52.
- Banfield, William B., Winnipeg, Manitoba, Canada. Emergency-tire. No. 1,380,627; June 7; v. 287; p. 57.
- Bang, Envelod, Minneapolis, Minn. Door-check. No. 1,373,646; Apr. 5; v. 285; p. 51.
- Bangle, James A. (See Touchstone, B. F., Gardner, Bangle, Sullivan, and Hardin.)
- Bangle, Paul M., San Dimas, Calif. Seat. No. 1,390,865; Sept. 13; v. 290; p. 354.
- Bangs, Ralph C., assignor to T. W. Lind Company, Providence, R. I. Metal ornament. No. 1,366,153; Jan. 18; v. 282; p. 491.
- Banister, Robert H., Anniston, Ala. Tool-holder. No. 1,387,339; Aug. 9; v. 289; p. 345.
- Banker, Arthur L., Pittsburgh, Pa. Tire-chain. No. 1,369,076; Feb. 22; v. 283; p. 573.
- Banker, Oscar H. (See Reinhardt, W. C., and Banker.)
- Bankers Box Company. (See Fellowes, Harry L., assignor.)
- Banks, Alexander. (See Bremberg, A., and Banks.)
- Banks, Charles S., Manila, Philippine Islands. Pillow or like object. No. 1,385,355; July 26; v. 288; p. 640.
- Banks, Daniel B., deceased, Baltimore, Md.; G. T. W. Banks, executrix. Door. No. 1,381,958; June 21; v. 287; p. 422.
- Banks, Garey T. W., executrix. (See Banks, Daniel B.)
- Banks, George H., Memphis, Tenn. Convertible interest-bearing savings-check. No. 1,380,762; June 7; v. 287; p. 83.
- Banks, George L., Huntington Park, Calif. Tractor-wheel. No. 1,382,815; June 28; v. 287; p. 638.
- Banks, Joseph H., New York, N. Y. Apparatus for returning water of condensation to steam-boilers. No. 1,364,856; Jan. 4; v. 282; p. 156.
- Banks, Mack, Chicago, Ill. Marble-gun. No. 1,388,015; Aug. 16; v. 289; p. 531.
- Banks, Robert C., Wilmington, N. C. Bale-tie buckle. No. 1,368,381; Feb. 15; v. 283; p. 398.
- Banks, William O. (See Barnard, A. C., and Banks.)
- Bankston, James R. (See Reneau, Charles W., assignor.)
- Bannell, Raymond H., Waterbury, Conn. Ball-deburring machine. No. 1,395,789; Nov. 1.
- Banner Machine Company, The. (See McCurry, E. M., and Bilger, assignors.)
- Banner Rock Products Company. (See Hall, Charles C., assignor.)
- Bannon, John, and F. W. Thorold, Toronto, Ontario, Canada. Recovering fatty substances. No. 1,367,652; Feb. 8; v. 283; p. 210.
- Banschbach, Edward A., Chicago, Ill. Record-holder. No. 1,370,399; Mar. 1; v. 284; p. 122.
- Banschbach, Edward A., Chicago, Ill. Multiple-tread wheel. No. 1,381,534; June 14; v. 287; p. 281.
- Banzett, William H., Bergenfield, N. J., assignor to American Lithographic Company, New York, N. Y. Plate-registering mechanism. No. 1,370,624; Mar. 8; v. 284; p. 211.
- Baptist, Carlisle F., Sr., Richmond, Va. Jewel-setting tool. No. 1,370,873; Mar. 8; v. 284; p. 258.
- Bar-Lock Typewriter Company, The. (See Etheridge, Herbert, assignor.)
- Barab, Jacob, Flushing, assignor to The Commercial Research Company, Long Island City, N. Y. Explosive and making explosives. No. 1,371,215; Mar. 15; v. 284; p. 385.
- Barac, Giovanni, Falls Creek, Pa. Tobacco-box. No. 1,390,866; Sept. 13; v. 290; p. 354.
- Baracree, Arthur J., Chicago, Ill. Storage battery. No. 1,381,959; June 21; v. 287; p. 422.
- Baral, Katherine T., New York, N. Y. Hair-brush. No. 1,383,511; July 5; v. 288; p. 52.
- Baranski, Julian, Trenton, N. J. Shade and curtain bracket. No. 1,367,752; Aug. 16; v. 289; p. 479.
- Barany, Edmund R., New York, assignor to Twinomatic Machine and Tool Co. Inc., Brooklyn, N. Y. Automatic drilling-machine. No. 1,384,585; July 12; v. 288; p. 324.
- Baratta, Angelo, *et al.* (See Barchiesi, Aurelio, assignor.)
- Barbarou, Marius, J. B. (See Maire, Auguste, assignor.)
- Barbarou, Marius J. B., Paris, France. Foot-lever construction for motor-cars. No. 1,385,331; July 19; v. 288; p. 558.
- Barbarou, Marius J. B., Paris, France. Air-compressor for motor-vehicle tires. No. 1,385,332; July 19; v. 288; p. 558.
- Barbarou, Marius J. B., Paris, France. Back axle for motor-cars. No. 1,391,294; Sept. 20; v. 290; p. 504.
- Barbe, Auguste L., Asnières, France. Manufacture of a white pigment. No. 1,396,914; Nov. 15.
- Barbé, Léonce, St. Maurice, assignor to Société des Produits Azotés, Paris, France. Granulating cyanamid. No. 1,394,532; Oct. 25.
- Barber, Ada S. (See Barber, William, assignor.)
- Barber, Anthony A., Newark, N. J., assignor to B. & B. Photo Co. Photographic-printing frame. No. 1,389,615; Sept. 6; v. 290; p. 11.
- Barber, Arthur, *et al.* (See Batten, Edward, assignor.)
- Barber Asphalt Paving Company, The. (See Fowler, Robert L., assignor.)
- Barber Asphalt Paving Company, The. (See Monrath, Gustav, assignor.)
- Barber, Charles C., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Key for fastening gear-wheels, raceways for ball-bearings, and the like to rotatable shafts. No. 1,400,014; Dec. 13.
- Barber, Claire S. (See Richardson, B. J., and Barber.)
- Barber-Colman Co. (See Field, Millard F., assignor.)
- Barber-Colman Company. (See Field, Chester E., assignor.)



*Alphabetical list of patentees—Continued.*

- Barber-Colman Company. (See Field, M. F., Lanning, Hathaway, and Blanchard, assignors.)
- Barber-Colman Company. (See Hathaway, E. F., and Lea, assignors.)
- Barber-Colman Company. (See Hathaway, E. F., and Mars, assignors.)
- Barber-Colman Company. (See Hathaway, Edgar F., assignor.)
- Barber-Colman Company. (See Mars, Charles M., assignor.)
- Barber, Constance L., assignor of one-half to H. W. Dufield, Glasford, Ill. Animal-trap. No. 1,372,927; Mar. 29; v. 284; p. 816.
- Barber Electric Manufacturing Company. (See Lundin, Ragnai O. W., assignor.)
- Barber, Franklin L., assignor to Standard Car Truck Company, Chicago, Ill. Roller side bearing. No. 1,396,014; Nov. 8.
- Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-handling machine. No. 1,385,067; July 19; v. 288; p. 506.
- Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Web-guide for rotary cutters. No. 1,394,961; Oct. 25.
- Barber, John D., West Park, Ohio. Sectional burial-vault. No. 1,393,485; Oct. 11.
- Barber, Louis, and E. L. Filson, assignors to The National Screw and Tack Company, Cleveland, Ohio. Nut-castelating machine. No. 1,387,092; Aug. 9; v. 289; p. 297.
- Barber, William, New York, assignor to A. S. Barber, Brooklyn, N. Y. Motor-vehicle. No. 1,370,580; Mar. 8; v. 284; p. 201.
- Barbers Electric Specialty Company, The. (See Coffman, Samuel M., assignor.)
- Barbet, Emile A., Paris, France. Removing the tar from pyroigneous liquids. No. 1,371,460; Mar. 15; v. 284; p. 434.
- Barbet, Emile A., Paris, France. Treatment of pyroigneous liquids from the carbonization of wood. No. 1,371,461; Mar. 15; v. 284; p. 435.
- Barbet, Emile A., Paris, France. Process and apparatus for the continuous treatment of fusel-oil. No. 1,389,852; Sept. 6; v. 290; p. 59.
- Barbet, Emile A., Paris, France. Regulating means for gas-separating apparatus. No. 1,395,466; Nov. 1.
- Barbetta, Michele, Paterson, N. J. Air-compressing machine. No. 1,382,453; June 21; v. 287; p. 516.
- Barbier, Christian E., Chicago, Ill. Window-lock. No. 1,396,496; Nov. 8.
- Barbour, Rachel, Seymour, Ind. Combination porch-swing and crib. No. 1,379,956; May 31; v. 286; p. 937.
- Barbour, Robert. (See Bendix, V., and Barbour.)
- Barbour, Robert, Paterson, N. J. Forceps. No. 1,400,653; Dec. 20.
- Barbour, Wolsey R., Terre Haute, Ind. Cleat for tractor-wheels. No. 1,375,665; Apr. 26; v. 285; p. 577.
- Barch, Walter F., Washington, D. C., assignor to Keuffel & Esser Co., Hoboken, N. J. Fountain lettering-pen. No. 1,367,346; Feb. 1; v. 283; p. 92.
- Barchiesi, Aurelio, assignor of one-fifth to A. Baratta, Jersey City, N. J., one-fifth to G. Squarcialupi, and one-fifth to L. L. Bolline, New York, N. Y. Automatic valve-closer. No. 1,374,273; Apr. 12; v. 285; p. 214.
- Barchiesi, Aurelio, assignor of one-half to A. Baratta, Jersey City, N. J. Automatic valve-closer. No. 1,375,073; Apr. 19; v. 285; p. 431.
- Barchiesi, Aurelio, assignor of one-fifth to A. Baratta, Jersey City, N. J., one-fifth to G. Squarcialupi, and one-fifth to L. L. Bolline, New York, N. Y. Double automatic valve-closer. No. 1,375,074; Apr. 19; v. 285; p. 432.
- Barchiesi, Aurelio, assignor of two-fifths to A. Baratta, Jersey City, N. J., and one-fifth to G. Squarcialupi, New York, N. Y. Automatic valve-closer. No. 1,391,818; Sept. 27; v. 290; p. 618.
- Barclay, McKee, and F. W. Parkhill, Baltimore, Md. Starter for internal-combustion engines. No. 1,396,497; Nov. 8.
- Barcus, George N., Wabash, assignor to Gets Manufacturing Co., Andrews, Ind. Vaporizer for internal-combustion engines. No. 1,393,193; Oct. 11.
- Bardeloni, Cesare, Rome, Italy. Device for receiving radiotelegraphic and radiotelephonic signals. No. 1,381,692; June 14; v. 287; p. 312.
- Barden, Merritt C., West Pawlet, Vt. Milking apparatus. No. 1,400,512; Dec. 20.
- Bardenheuer, William C., Brooklyn, assignor to Boornum & Pease Company, New York, N. Y. Book. No. 1,370,265; Mar. 1; v. 284; p. 97.
- Bardera, Jose M., New York, N. Y. Advertising device. No. 1,394,881; Oct. 25.
- Bardera, Jose M., New York, N. Y. Combination-tool. No. 1,398,996; Dec. 6.
- Bardi, Gino, Cleveland, Ohio. Signal device for automobiles. No. 1,381,268; June 14; v. 287; p. 232.
- Bardin, Victor, St. Denis, France. Electrical connector for engine spark-plugs and other purposes. No. 1,390,481; Sept. 13; v. 290; p. 276.
- Bardon, Ray O., Upper Sandusky, Ohio. Antislipping attachment for shoes. No. 1,399,682; Dec. 6.
- Bardsley, Edward E., Center township, Camden county, N. J. Hair-waver. No. 1,365,079; Jan. 11; v. 282; p. 242.
- Bardsley, Henry, Philadelphia, Pa. Steering device. No. 1,366,154; Jan. 18; v. 282; p. 491.
- Bardsley, Henry, Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Double-cylinder dobby. No. 1,367,005; Feb. 1; v. 283; p. 24.
- Bardsley, Willard W., et al., executors. (See Wardwell, Simon W.)
- Barducci, Pilade, Naples, Italy. Drying plant. No. 1,368,537; Feb. 15; v. 283; p. 429.
- Barducci, Pilade, Naples, Italy. Drying plant. No. 1,380,054; June 7; v. 287; p. 140.
- Barducci, Pilade, Naples, Italy. Arrangement for changing and heating air in rooms and chambers of any kind. No. 1,395,938; Nov. 1.
- Bardush, John F., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich. Refrigerator-lining. No. 1,372,859; Mar. 29; v. 284; p. 802.
- Bardwell, Francis N., Passaic, N. J. Resilient wheel and container. No. 1,378,806; May 17; v. 286; p. 573.
- Bardwell, George E., and H. L. Fuller, Christmas, Ariz. Exercising horizontal bar. No. 1,366,155; Jan. 18; v. 282; p. 492.
- Barger, Newton L., Braeholm, and J. P. Donaldson, Morgantown, assignors, by direct and mesne assignments, to Ford-Barger Machinery Co., Braeholm, W. Va. Loading-machine. (Reissue.) No. 15,234; Nov. 29.
- Barger, Walter R., Benkelman, Nebr. Weaner. No. 1,375,031; Apr. 19; v. 285; p. 422.
- Barham, Angeline M., Philadelphia, Miss. Tatting-shuttle. No. 1,390,188; Sept. 6; v. 290; p. 127.
- Bark, Otto, Chicago, Ill. Sheet-metal-tube-forming machine. No. 1,365,019; Jan. 11; v. 282; p. 232.
- Bark, Otto, assignor to Leakproof Radiator Co., Chicago, Ill. Radiator-tubing. No. 1,377,385; May 10; v. 286; p. 249.
- Barker, Bertie T. P., Long Ashton, Somerset, England. Production of pectous substances. No. 1,386,224; Aug. 2; v. 289; p. 53.
- Barker, Gerald, London, England. Variable-speed friction-gear. No. 1,372,638; Mar. 22; v. 284; p. 717.
- Barker, James, Detroit, Mich. Index device. No. 1,384,882; July 19; v. 288; p. 467.
- Barker, James, Kalamazoo, Mich. Temporary binder. No. 1,384,883; July 19; v. 288; p. 467.
- Barker, John T., Lexington, Ky. Strainer-stretcher. No. 1,385,899; July 26; v. 288; p. 751.
- Barker, Percy E., assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Dumping-truck. No. 1,380,881; June 7; v. 287; p. 107.
- Barker, Percy E., assignor to The Van Dorn Iron Works Co., Cleveland, Ohio. Tail-gate latch. No. 1,383,691; July 5; v. 288; p. 90.
- Barker, Percy E., assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Body-tilting mechanism for motor-trucks. No. 1,385,390; Aug. 2; v. 289; p. 84.
- Barker, Ralph F. (See Garr, S. R., and Barker.)
- Barker-Sweet Manufacturing Company. (See Sweet, Parker H., assignor.)
- Barker, Sydney P., New York, assignor, by mesne assignments, to Arrow Grip Manufacturing Co., Inc., Glens Falls, N. Y. Roller-base lifting-jack. No. 1,400,931; Dec. 20.
- Barker, Thomas C., assignor to C. C. Mattan, Jr., New York, N. Y. Finishing-machine for pile fabrics. No. 1,368,096; Feb. 8; v. 283; p. 294.
- Barker, Wendell A., Elkhart, Ind. Revolving-jaw chuck. No. 1,373,789; Apr. 5; v. 285; p. 79.
- Barker, Wendell A., Elkhart, Ind. Chuck. No. 1,389,731; Sept. 6; v. 290; p. 84.
- Barker, William H. (See de Giers, Clarence A., assignor.)
- Barker, William H., New Brighton, assignor to C. W. Wright, New York, N. Y. Life-belt. No. 1,367,225; Feb. 1; v. 283; p. 68.
- Barkley, John F., Wilkinsburg, Pa. Intake-feeder for suction-conveyers. No. 1,382,454; June 21; v. 287; p. 516.
- Barks, Frank S., St. Louis, Mo. Journal-bearing support. No. 1,377,545; May 10; v. 286; p. 279.
- Barks, Frank S., assignor to Lincoln Steel and Forge Company, St. Louis, Mo. Truck-frame for mine-cars. No. 1,389,928; Sept. 6; v. 290; p. 75.
- Barkschat, Henry, Los Angeles, Calif. Machine for centrifugal formation of plastic bodies. No. 1,391,164; Sept. 20; v. 290; p. 477.
- Barkschat, Henry, Los Angeles, Calif. Mold. No. 1,398,412; Nov. 29.
- Barland, Peter, Anaconda, Mont. Feed-trough structure. No. 1,386,225; Aug. 2; v. 289; p. 53.
- Barletta, John, San Francisco, Calif. Tractor. No. 1,385,108; July 19; v. 288; p. 514.
- Barley, William B., and J. C. Corbett, assignor to Fearless Dishwasher Company, Inc., Rochester, N. Y. Water-cooler. No. 1,400,713; Dec. 20.
- Barling, Walter H., Hasbrouck Heights, N. J. Landing-gear. No. 1,385,770; July 26; v. 288; p. 725.
- Barling, Walter H., London, England. Rib for airplane-wings and the like. No. 1,388,543; Aug. 23; v. 289; p. 692.
- Barlow, J. W., et al. (See Poole, John H., assignor.)
- Barmier, Harry A., Chicago, Ill. Printing-ink and producing same. No. 1,383,512; July 5; v. 288; p. 52.



## Alphabetical list of patentees—Continued.

- Barnard, Alexander C., and W. O. Banks, Oakland, assignors of one-third to H. B. Tooker, San Francisco, Calif. Filing device. No. 1,375,650; Apr. 19; v. 285; p. 541.
- Barnard, Alfred W. A., Wellington, assignor of one-fourth to S. J. Hartley, Main Road, Himatangi, Wellington, New Zealand. Safety device for fowling-pieces, rifles, and the like. No. 1,379,238; May 24; v. 286; p. 727.
- Barnard, Edward N., *et al.* (See Munshaw, Frank B., assignor.)
- Barnard, Frank, Louisville, Ky. Rag doll. No. 1,399,841; Dec. 13.
- Barnard, Percy B., Ottawa, Ontario, Canada. Shade-roller bracket. No. 1,372,390; Mar. 22; v. 284; p. 670.
- Barnard, Ray D., assignor to R. C. Plant, Minneapolis, Minn. Illumination device. No. 1,386,982; Aug. 9; v. 289; p. 247.
- Barnard, Samuel G. (See Dotzer, H., and Barnard.)
- Barnard, Samuel G., assignor of one-half to H. Dotzer, Seattle, Wash. Electric-circuit-testing device. No. 1,382,884; June 28; v. 287; p. 651.
- Barnard, Sidney N., *et al.* (See Newman, Arthur S., assignor.)
- Barnard, Thomas H. (See Taylor, Herbert, assignor.)
- Barnard, Walter E., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,386,391; Aug. 2; v. 289; p. 84.
- Barnebey, Oscar L., Cleveland, Ohio. Making cyanids. No. 1,397,618; Nov. 22.
- Barneck, Russell E., Minneapolis, Minn. Clothespin. No. 1,397,199; Nov. 15.
- Barner, John S., Colver, assignor to Barner Railway Supply Company, Philadelphia, Pa. Fluid-compressing apparatus. No. 1,372,391; Mar. 22; v. 284; p. 670.
- Barner, Lawrence D., Fort Bliss, Tex. Foldable hacksaw. No. 1,380,628; June 7; v. 287; p. 57.
- Barner Railway Supply Company. (See Barner, John S., assignor.)
- Barnes, Ansley, Waterville, Me. Cable-tightener. No. 1,389,475; Aug. 30; v. 289; p. 932.
- Barnes, Edwin, Sheffield, England. Spectacles. No. 1,387,753; Aug. 16; v. 289; p. 480.
- Barnes, Ervin R., Spokane, Wash. Excavating and grading machine. No. 1,379,845; May 31; v. 286; p. 916.
- Barnes, Eugene L., Buffalo, assignor to American District Steam Company, North Tonawanda, N. Y. Expansion-joint. No. 1,367,347; Feb. 1; v. 283; p. 92.
- Barnes, Eugene L., Buffalo, assignor to American District Steam Company, North Tonawanda, N. Y. Expansion device or slip-joint. No. 1,367,348; Feb. 1; v. 283; p. 93.
- Barnes, Eugene L., Buffalo, assignor to American District Steam Company, North Tonawanda, N. Y. Expansion device or slip-joint. No. 1,367,349; Feb. 1; v. 283; p. 93.
- Barnes, Frank. (See Hutchinson, J. T., Shaw, and Barnes.)
- Barnes, Fred A., and E. G. Hurlbut, Indianapolis, Ind. Stud-driver. No. 1,395,939; Nov. 1.
- Barnes, Gaylord V., Alameda, Calif. Seat for vehicles or the like. No. 1,379,076; May 24; v. 286; p. 696.
- Barnes, Horace. (See Benson, A. A., and Barnes.)
- Barnes, John A., assignor to Fowler-Williams Company, Dallas, Tex. Blow-out boot. No. 1,364,677; Jan. 4; v. 282; p. 121.
- Barnes, John A., assignor to Fowler-Williams Company, Dallas, Tex. Blow-out boots. (Reissue.) No. 15,174; Aug. 9; v. 289; p. 366.
- Barnes, John A., West New Brighton, assignor to The Superheater Company, New York, N. Y. Superheater. No. 1,400,853; Dec. 20.
- Barnes, John J., Henry, Ill. Conductor for disposing of fumes arising from cooking utensils. No. 1,375,548; Apr. 19; v. 285; p. 522.
- Barnes, John W., Rock Ferry, Cheshire, England. Dog or driving-carrier for lathes or the like. No. 1,365,144; Jan. 11; v. 282; p. 256.
- Barnes, John W., Cheshire, England. Machine for scarfing boiler and ship plates, cutting inclined keyways, or other purposes. No. 1,392,549; Oct. 4.
- Barnes, Jonathan G., Laredo, Tex. Disk harrow or terracer. No. 1,393,336; Oct. 11.
- Barnes, Joseph. (See Veilleux, L., Leveque, and Barnes.)
- Barnes, Joseph H., Stockport, England. Incandescent-gas-mantle box. No. 1,390,234; Sept. 6; v. 290; p. 135.
- Barnes, Joseph L., Pittsburgh, Pa. Wrench. No. 1,393,070; Oct. 11.
- Barnes, Lionel M., Paget West, Bermuda. Fruit-picker. No. 1,374,176; Apr. 12; v. 285; p. 196.
- Barnes, Orange P., Chicago, Ill., assignor, by mesne assignments, to National Motor Control Co. Armor for ignition systems. No. 1,375,549; Apr. 19; v. 285; p. 522.
- Barnes, S. V. (See Barnes, Willard F., assignor.)
- Barnes, Thornton B., New York, N. Y. Embalming deodorization. No. 1,400,344; Dec. 13.
- Barnes, Truman R., Derby, Conn. Heater. No. 1,364,678; Jan. 4; v. 282; p. 122.
- Barnes, Van Roy, Urbana, Ill. Vehicle-signal. No. 1,378,312; May 17; v. 286; p. 478.
- Barnes, Willard F., assignor to S. V. Barnes, Berkeley, Calif. Basket-making machine. No. 1,387,093; Aug. 9; v. 289; p. 297.
- Barnes, William, assignor to Walden Worcester, Inc., Worcester, Mass. Socket-wrench. No. 1,381,900; June 21; v. 287; p. 411.
- Barnes, William O., Leominster, Mass. Machine for grinding formed cutters. No. 1,373,586; Apr. 5; v. 285; p. 40.
- Barnes, William O., Leominster, Mass. Machine for grinding formed cutters. No. 1,373,587; Apr. 5; v. 285; p. 40.
- Barnett, Arthur R., Portland, Oreg. Knife. No. 1,380,629; June 7; v. 287; p. 57.
- Barnett, James S., Dallas, Tex. Cotton-cultivator. No. 1,378,513; May 17; v. 286; p. 517.
- Barnett, John E., Cedar Rapids, Iowa. Direction-indicator for vehicles. No. 1,364,679; Jan. 4; v. 282; p. 122.
- Barnett, John S., North Bend, Oreg. Planetary gearing. No. 1,376,915; May 3; v. 286; p. 102.
- Barnett, Otto R., Glencoe, assignor to P & M Company, Chicago, Ill. Rail-anchor. No. 1,373,218; Mar. 29; v. 284; p. 874.
- Barnett, Otto R., Glencoe, assignor to P & M Company, Chicago, Ill. Rail-anchor. No. 1,392,288; Oct. 4.
- Barnett, Walter and J. Florendine, Rugby, England. Tip-vehicle. No. 1,383,513; July 5; v. 288; p. 52.
- Barnett, William A., Lincoln, Nebr. Collar-turning machine. (Reissue.) No. 15,046; Feb. 22; v. 283; p. 707.
- Barnette, John S., Jr., Broughton, Pa. Safety device for mine-elevators. No. 1,398,216; Nov. 22.
- Barney, Finis M., Elm Creek, Nebr. Photographic view-finder. No. 1,370,776; Mar. 8; v. 284; p. 240.
- Barney, Philip, Dollard, Manitoba, Canada. Animal-poke. No. 1,373,701; Apr. 5; v. 285; p. 62.
- Barnhart, George. (See Burke, C. E., and Barnhart.)
- Barnhart, Walter C., Seattle, Wash. Pulley-grinding machine. No. 1,394,704; Oct. 25.
- Barnholdt, Harold L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Winding structure for multispeed induction-motors. No. 1,387,458; Aug. 16; v. 289; p. 419.
- Barnhurst, Henry G. (See Barnhurst, Henry R.)
- Barnhurst, Henry G., administrator. (See Barnhurst, H. R., Collins, and Barnhurst.)
- Barnhurst, Henry G., administrator. (See Barnhurst, Henry R.)
- Barnhurst, Henry G., Allentown, Pa., assignor to Fuller Engineering Company. Burning pulverized fuel. No. 1,382,712; June 28; v. 287; p. 619.
- Barnhurst, Henry R., deceased, Catasauqua, by H. G. Barnhurst, administrator, H. R. Collins, Allentown, and H. G. Barnhurst, Catasauqua, assignors to Fuel Savings Company, Allentown, Pa. Apparatus for burning pulverized fuel in locomotives. No. 1,383,371; July 5; v. 288; p. 24.
- Barnhurst, Henry R., deceased, by H. G. Barnhurst, administrator, Catasauqua, H. R. Collins, Allentown, and H. G. Barnhurst, Catasauqua, assignors to Fuller Engineering Company, Allentown, Pa. Burning pulverized fuel in locomotives. No. 1,395,079; Oct. 25.
- Barnickel, William S., St. Louis, Mo. Pumping apparatus. No. 1,375,200; Apr. 19; v. 285; p. 456.
- Barnickol, William F., and A. W. Archer, Stockton, Calif. Vertical pump. No. 1,367,450; Feb. 1; v. 283; p. 113.
- Barnickol, William F., and A. W. Archer, assignors to Sterling Iron Works, Stockton, Calif. Oiling device for turbine-pumps. No. 1,386,304; Aug. 2; v. 289; p. 68.
- Barnikowski, Joseph. (See Dembowski, Stephen, assignor.)
- Barnum, Oliver S. (See Williams, F. E., and Barnum.)
- Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,391,295; Sept. 20; v. 290; p. 504.
- Baron, Auguste B. (See Alberti, A. G., and Baron.)
- Baron, Charles S., Tiffin, Ohio. Sanitary pitcher or the like and means for connecting its cover thereto. No. 1,365,145; Jan. 11; v. 282; p. 256.
- Baron, Charles S., Tiffin, Ohio. Liquid-container provided with removable hinged top. No. 1,375,993; Apr. 26; v. 285; p. 639.
- Baron, Charles S., Tiffin, Ohio. Sanitary pitcher or the like. No. 1,389,732; Sept. 6; v. 290; p. 35.
- Baron, Charles S., Tiffin, Ohio. Sanitary pitcher or the like and means for connecting their covers thereto. No. 1,389,733; Sept. 6; v. 290; p. 35.
- Baron, Charles S., Tiffin, Ohio. Liquid-container having separable top. No. 1,389,734; Sept. 6; v. 290; p. 35.
- Baron, George, Montreal, Quebec, Canada. Bolt-lock. No. 1,391,447; Sept. 20; v. 290; p. 535.
- Baron, Mary C., Hampden Meadows, R. I. Brooder. (Reissue.) No. 15,207; Oct. 18.
- Baroni, Mario. (See Luling, E., and Baroni.)
- Baroni, Michael. (See Tremolada, Guglielmo, assignor.)
- Barr, Arthur, San Rafael, Calif. Dental lip and tongue depressor. No. 1,400,854; Dec. 20.
- Barr, Hugh M., Pensacola, Fla. Retort. No. 1,373,702; Apr. 5; v. 285; p. 62.
- Barr, John M., assignor to Howell Electric Motors Company, Howell, Mich. Bearing. No. 1,368,998; Feb. 22; v. 283; p. 557.



## Alphabetical list of patentees—Continued.

- Barr, Mark, Chelsea, and T. F. Maw, Cricklewood, England, assignors to Mergenthaler Linotype Company. Mechanism for composing and casting typographical matter. No. 1,380,763; June 7; v. 287; p. 84.
- Barr, Robert H., *et al.* (See Newth, Basil, assignor.)
- Barr, Robert J., Goodyear, Ariz. Tireholder. No. 1,366,239; Jan. 18; v. 282; p. 508.
- Barr, Wilson, Trenton, Ontario, Canada. Account-file. No. 1,395,892; Nov. 1.
- Barra, Arturo, Manila, Philippine Islands. Copra-cooker. No. 1,374,873; Apr. 12; v. 285; p. 330.
- Barra, John L. (See Oldham, E. L., and Barra.)
- Barrahee, Thomas R. (See Reach, Howard E., assignor.)
- Barraclough, Arthur, assignor to W. & T. Avery Limited, Birmingham, England. Scale for automatically weighing granular or like substances. No. 1,374,977; Apr. 19; v. 285; p. 412.
- Barraço, Paul J. (See Humason, G. A., Bashara, and Barraço.)
- Barraja-Frauenfelder, Joseph, assignor to The Lake Torpedo Boat Company, Bridgeport, Conn. Submarine torpedo-boat. No. 1,393,601; Oct. 11.
- Barraud, Eldread, Hume-Kakabeka Falls, Ontario, Canada. Train-stop. No. 1,373,380; Mar. 29; v. 284; p. 905.
- Barrett, Arthur G. (See Rowe, John B., and Barrett.)
- Barreata, Angelo. (See Barchesi, Aurelio, assignor.)
- Barravecchia, Frank, Westerly, R. I. Chimney fire-extinguisher or flusher. No. 1,373,160; Mar. 29; v. 284; p. 862.
- Barrell, Charles S., Boston, Mass. Tire-chain. No. 1,374,347; Apr. 12; v. 285; p. 228.
- Barrell, Charles S., Boston, Mass. Swivel-turn buckle device. No. 1,374,348; Apr. 12; v. 285; p. 228.
- Barrett & Barrett. (See Mastel, Peter, A., assignor.)
- Barrett, Charles, New York, N. Y. Electric sealing device. No. 1,386,305; Aug. 2; v. 289; p. 68.
- Barrett, Charles D., J. E. Myers, and A. O. King, Altoona, Pa. Balanced throttle-valve. No. 1,386,678; Aug. 9; v. 289; p. 213.
- Barrett, Clarence E. (See Mooney, Frank H., assignor.)
- Barrett Company, The. (See Bailey, G. C., and Boettner, assignors.)
- Barrett Company, The. (See Bailey, G. C., and Craver, assignors.)
- Barrett Company, The. (See Bailey, George C., assignor.)
- Barrett Company, The. (See Dennis, Clark M., assignor.)
- Barrett Company, The. (See Downs, C. R., and Potter, assignors.)
- Barrett Company, The. (See Downs, Charles R., assignor.)
- Barrett Company, The. (See Holder, John L., assignor.)
- Barrett Company, The. (See Miller, S. P., and Rhodes, assignors.)
- Barrett Company, The. (See Miller, Stuart P., assignor.)
- Barrett Company, The. (See Perry, Ray P., assignor.)
- Barrett Company, The. (See Reeve, Charles S., assignor.)
- Barrett Company, The. (See Snyder, Edward R., assignor.)
- Barrett Company, The. (See Weiss, J. M., and Downs, assignors.)
- Barrett, Dwight O., Lima, Ohio. Spray-nozzle for vertical Diesel engines. No. 1,368,097; Feb. 8; v. 283; p. 294.
- Barrett, Elmer L., Allen, Nebr. Master-jack and stand for automobiles. No. 1,370,002; Mar. 1; v. 284; p. 47.
- Barrett, Jacob O., assignor of one-half to W. W. Bruce, Asheville, N. C. Lifting-jack. No. 1,390,867; Sept. 13; v. 290; p. 374.
- Barrett, James, Murdock, Minn. Sprayer attachment. No. 1,374,274; Apr. 12; v. 285; p. 214.
- Barrett, John L., Chicago, Ill. Steam-economizer. No. 1,372,277; Aug. 9; v. 289; p. 321.
- Barrett, Michael J., Brooklyn, N. Y. Automatic valve. No. 1,396,394; Nov. 8.
- Barrett, Robin J., and G. E. Bean, Mitchellville, Iowa. Overhead valve attachment for Ford motors. No. 1,375,216; Apr. 19; v. 285; p. 404.
- Barrett, Thomas C. (See Kraus, C. E., and Barrett.)
- Barrett, William J. (See Hessler, K. W., and Barrett.)
- Barrett, William L., Waterloo, Iowa. Hand-cultivator. No. 1,370,180; Mar. 1; v. 284; p. 80.
- Barrett, William N., Meadville, Pa. Arch-supporter. No. 1,369,375; Feb. 22; v. 283; p. 630.
- Barri, Emma F., Brooklyn, N. Y. Stocking-supporter. No. 1,394,533; Oct. 25.
- Barriere, Wilfrid H., Worcester, Mass. Window. No. 1,397,671; Nov. 22.
- Barriere, Wilfrid H., Worcester, Mass. Direction-indicator for automobiles. No. 1,397,672; Nov. 22.
- Barron, Frederick W., Winnipeg, Manitoba, Canada. Combination holder and lifter. No. 1,373,703; Apr. 5; v. 285; p. 62.
- Barron, Leo L., H. B. Wolken, and F. J. Felker, St. Louis, Mo. Washing-machine. No. 1,369,876; Mar. 1; v. 284; p. 23.
- Barron, W. L., New York, N. Y., and F. E. Osol, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Sewing-machine. No. 1,388,914; Aug. 30; v. 289; p. 820.
- Barron, William L., Newark, N. J., assignor to The Singer Manufacturing Company. Work-holder for sewing-machines. No. 1,366,348; Jan. 25; v. 282; p. 573.
- Barron, William L., Newark, N. J., assignor to The Singer Manufacturing Company. Interchangeable needle-guide. No. 1,387,094; Aug. 9; v. 289; p. 297.
- Barron, William L., New York, N. Y., and W. D. Michener, Roselle Park, N. J., assignors to The Singer Manufacturing Company. Button-sewing machine. No. 1,366,109; Jan. 18; v. 282; p. 482.
- Barron, William L., and A. F. Fifield, Newark, N. J., assignors to The Singer Manufacturing Company. Work-holder for sewing machines. No. 1,387,031; Aug. 9; v. 289; p. 285.
- Barrow, Charles J., Hull, Mass. Ground-wire connection. No. 1,389,929; Sept. 6; v. 290; p. 75.
- Barrow, Frederick J. W., Chicago, Ill. Door-hinge. No. 1,160,788; Dec. 20.
- Barrows Allan S. (See Alquist, S. P., and Barrows.)
- Barrows, Allan S., Chicago, Ill. Sheet-metal flush car-door. No. 1,395,080; Oct. 25.
- Barry, Clinton R., and M. L. McClelland, Fort Smith, Ark., assignor of one-half to The Crowley and Smith Patents Company, Oklahoma, Okla. Drill. No. 1,395,081; Oct. 25.
- Barrows, Donald S., Rochester, N. Y. Car-underframe. No. 1,378,645; May 17; v. 286; p. 542.
- Barrows, Harry W., Omaha, Nebr. Vacuum-brake. No. 1,399,099; Dec. 6.
- Barrows, Robert Y., Inc., *et al.* (See Barrows, Robert Y., assignor.)
- Barrows, Robert Y., Rutherford, N. J., assignor of one-half to George H. Harman, Inc., and one-half to Robert Y. Barrows, Inc. Powder and rouge container. No. 1,385,856; July 26; v. 288; p. 742.
- Barry, Edward H. (See Smith, B. L., Barry, and Boettcher.)
- Barry, Edward H., Newton, Mass., assignor to the Government of the United States. Bomber's training device. No. 1,381,158; June 14; v. 287; p. 212.
- Barry, Garret J., Sandusky, Ohio. Electric train-signal. No. 1,397,351; Nov. 15.
- Barry, Gerald G., Chicago, Ill. Metal wheel. No. 1,389,179; Aug. 30; v. 289; p. 873.
- Barry, Herbert A. L., London, assignor to Silver Lock Stitch Sewing Machine Syndicate Limited, Bloomsbury, London, England. Lock-stitch sewing-machine. No. 1,380,630; June 7; v. 287; p. 58.
- Barry, James F., Chicago, Ill. Pipe or conduit hanger. No. 1,399,456; Dec. 6.
- Barry, Joe E., Granville, N. D. Automobile-spring. No. 1,390,326; Sept. 13; v. 290; p. 246.
- Barry, Joseph, Sharon, Pa. Curtain-stretcher. No. 1,389,431; Aug. 30; v. 289; p. 922.
- Barry, Joseph F., New York, N. Y. Orthopedic appliance. No. 1,374,177; Apr. 12; v. 285; p. 196.
- Barry, Louis J. (See Macfarlane, S. B., and Barry.)
- Barry, Richard V., Ottumwa, Iowa. Four-row corn-planter. No. 1,370,777; Mar. 8; v. 284; p. 240.
- Barry, William B., Jr., East Orange, N. J. Protector for lubricating-cups. No. 1,379,609; May 31; v. 286; p. 872.
- Barsch, Wilhelm, Lucerne, Switzerland. Device for sharpening the blades for safety-razors. No. 1,399,241; Dec. 6.
- Barsness, Nellie N., St. Paul, Minn. Sanitary appliance for closet-seats. No. 1,396,547; Nov. 8.
- Barson, Harry W., assignor to Ode D. Jennings, Chicago, Ill. Weighing-scale. No. 1,370,724; Mar. 8; v. 284; p. 230.
- Barstow, Edwin O., and C. W. Jones, assignors to The Dow Chemical Company, Midland, Mich. Making potassium bromid. No. 1,392,905; Oct. 11.
- Bart, Thomas E., assignor to The Murdock Manufacturing and Supply Co., Cincinnati, Ohio. Bubbler for drinking-fountains. No. 1,376,916; May 3; v. 286; p. 102.
- Barta, Joseph, Martins Ferry, Ohio. Lamp-holder for miners' caps. No. 1,397,200; Nov. 15.
- Bartell, William H., and H. C. Loesch, Colorado Springs, Colo. Road-drag. No. 1,371,839; Mar. 15; v. 284; p. 507.
- Bartels, Amandus, Harburg-on-the-Elbe, Germany. Apparatus for the manufacture of horn-like masses from casein. No. 1,375,623; Apr. 19; v. 285; p. 536.
- Bartels, Amandus, Harburg-on-the-Elbe, Germany. Apparatus for the manufacture of transparent horn-like casein masses. No. 1,375,624; Apr. 19; v. 285; p. 536.
- Bartels, Carl. (See Mosler, M., and Bartels.)
- Bartels, Carl P. (See Benham, E. M., and Bartels.)
- Bartels, Frank, Oakland, Calif. Harvester. No. 1,369,376; Feb. 22; v. 283; p. 630.
- Bartelt, Henry H. (See Dohr, J., and Bartelt.)
- Barth, Harry G., Cleveland, Ohio. Fixture for holding thread-cutting tools while grinding the cutting edges. No. 1,368,472; Feb. 15; v. 283; p. 416.
- Barthelemy, Walter L., Dayton, Ohio. Tractor. No. 1,378,002; May 17; v. 286; p. 419.
- Barthels Manufacturing Company. (See Wiberley, Frank, assignor.)
- Bartholdi, Simpert C. (See Kurt, O. A., and Bartholdi.)
- Bartholdy, Max, assignor to Fried. Krupp Aktiengesellschaft, Essen, Germany. Sighting device for ordnance. No. 1,373,937; Apr. 5; v. 285; p. 109.



*Alphabetical list of patentees—Continued.*

- Bartholdy, Max, Essen, assignor to Fried. Krupp Aktien-gesellschaft, Essen-on-the-Ruhr, Germany. Sighting device for ordnance. No. 1,384,007; July 5; v. 288; p. 155.
- Bartholdy, Max, Karlskoga, Sweden, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gage. No. 1,398,311; Nov. 29.
- Bartholomew, Archie L., Indianapolis, Ind. Mixing device. No. 1,372,589; Mar. 22; v. 284; p. 708.
- Bartholomew, Bert E., Algona, Iowa. Railway-gate. No. 1,398,001; Nov. 22.
- Bartholomew, Byron, Joliet, Ill. Locking system. No. 1,379,610; May 31; v. 286; p. 872.
- Bartholomew, Fred R. (See Vierling, F. J., and Bartholomew.)
- Bartholomew, Fred R. (See Vierling, F. J., Bartholomew, and Smith.)
- Bartholomew, John B., assignor to Avery Company, Peoria, Ill. Gang-plow. No. 1,379,673; May 31; v. 286; p. 884.
- Bartholomew, John B., assignor to Avery Company, Peoria, Ill. Gang-plow. No. 1,395,216; Oct. 25.
- Bartholomew, Ohmer H., Peoria, Ill. Blow-out patch. No. 1,370,778; Mar. 8; v. 284; p. 240.
- Bartholomew, Ohmer H., Peoria, Ill. Collapsible rim. No. 1,372,794; Mar. 29; v. 284; p. 788.
- Bartholomew, William, assignor to Troy Laundry Machinery Company, Ltd., Chicago, Ill. Extractor. No. 1,400,932; Dec. 20.
- Bartholomew, William, and G. Simon, assignors to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Self-aligning shaft-bearing. No. 1,388,321; Aug. 23; v. 289; p. 649.
- Bartlemy, Arlie, assignor to Red Cross Manufacturing Company, Bluffton, Ind. Cider-press. No. 1,398,252; Nov. 29.
- Bartleson, Thomas L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making phosphorus oxychlorid. No. 1,381,783; June 14; v. 287; p. 329.
- Bartlett, Charles A., and L. H. Eastman; said Eastman assignor of his right to H. Erickson, Campbell, Nebr. Jar-holder. No. 1,384,176; July 12; v. 288; p. 239.
- Bartlett, Edward C. H., Cleveland Ohio. Blower. No. 1,375,482; Apr. 19; v. 285; p. 509.
- Bartlett, Ernest C., and J. E. Allison, Houston, Tex. Electrical tank-gage. No. 1,396,155; Nov. 8.
- Bartlett, George S., Buffalo, Wyo. Bracket-support. No. 1,396,548; Nov. 8.
- Bartlett, Hayward Company, The. (See Tast, Gustave, assignor.) (Reissue.)
- Bartlett, Hayward Company, The. (See Wagner, Frederick H., assignor.)
- Bartlett, Henry B., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Weighing-scale. No. 1,400,933; Dec. 20.
- Bartley, John C., Englewood, and J. G. Ophardt, Platteville, Colo. Anti-glare attachment for automobiles. No. 1,368,997; Feb. 22; v. 283; p. 557.
- Bartlett, Leonard, assignor to Reliance Machine & Specialty Co., Boston, Mass. Roller-filler for bearings. No. 1,392,550; Oct. 4.
- Bartlett, Leonard, assignor to Reliance Machine & Specialty Co., Boston, Mass. Bearing-filling machine. No. 1,396,089; Nov. 8.
- Bartlett, Leonard, assignor to Reliance Machine & Specialty Co., Boston, Mass. Punch-filler for bearings. No. 1,396,090; Nov. 8.
- Barto, Franklin J., Wakefield, Nebr. Wind or water wheel. No. 1,364,681; Jan. 4; v. 282; p. 122.
- Bartoli, Pasquale, Brooklyn, N. Y. Accordion. No. 1,382,885; June 28; v. 287; p. 651.
- Bartolomeh, Ricardo, New York, N. Y. Stop for phonographs. No. 1,370,266; Mar. 1; v. 284; p. 97.
- Barton, Archilles A., Glendale, Calif. Discharge T for pumps. No. 1,364,680; Jan. 4; v. 282; p. 122.
- Barton, Archilles A., Glendale, Calif. Bucket for deep-well pumps. No. 1,367,451; Feb. 1; v. 283; p. 113.
- Barton, Archilles A., Los Angeles, Calif. Surge-tank. No. 1,372,928; Mar. 29; v. 284; p. 816.
- Barton, Ben D., Lansing, Mich. Belt pulley and tightener. No. 1,394,705; Oct. 25.
- Barton, Ernest L., Chester, S. C. Fireplace. No. 1,361,607; Jan. 4; v. 282; p. 108.
- Barton, Louis E., Niagara Falls, N. Y., and H. A. Gardner, Washington, D. C., assignors, by mesne assignments, to Titanium Pigment Company, Inc. Plastic. No. 1,365,882; Jan. 18; v. 282; p. 439.
- Barton, Rual C., Kirksville, Mo. Fastening device. No. 1,370,680; Mar. 8; v. 284; p. 221.
- Barton, Warren D., Waco, Tex. Device for holding ice upon the running-boards of vehicles. No. 1,401,128; Dec. 27.
- Bartsch, Paul, Washington, D. C. Wood protection. No. 1,374,806; Apr. 12; v. 285; p. 317.
- Bartus, Andrew. (See Kabacj, G., and Bartus.)
- Bartuzel, Jan, Youngstown, Ohio. Sled attachment for vehicles. No. 1,380,860; June 7; v. 287; p. 103.
- Bartz, Adolph J. (See Read, E. T., and Bartz.)
- Bartz, Frank E., Pittsburgh, Pa. Quick-adjustable monkey-wrench. No. 1,392,391; Oct. 4.
- Baruday, George M. (See Bowles, Jerre M., assignor.)
- Barwick, James W., Pinepark, Ga. Automobile-lock. No. 1,375,994; Apr. 26; v. 285; p. 639.
- Barwick, James W., Pinepark, Ga. Automobile-lock. No. 1,378,757; May 17; v. 286; p. 564.
- Barwick, James W., Pinepark, Ga. Automobile-lock. No. 1,396,091; Nov. 8.
- Barwick, John, New York, N. Y. Turntable for vehicle. No. 1,379,239; May 24; v. 286; p. 727.
- Bary, Edward M., Kansas City, Mo. Watchmaker's pliers. No. 1,397,614; Nov. 22.
- Basch, David, New York, N. Y. Ear-muff. No. 1,398,958; Dec. 6.
- Bascom, Perry H., Boundbrook, N. J., assignor to The Dorr Company. Automatic control of reactions. No. 1,399,181; Dec. 6.
- Bascome, Clarence, Dayton, Ohio. Waist-line garment-support. No. 1,383,062; June 28; v. 287; p. 685.
- Baseman, Ernest. (See Robinson, C. W., and Baseman.)
- Bash, Francis E., assignor to Leeds & Northrup Company, Philadelphia, Pa. Optical pyrometry. No. 1,376,666; May 3; v. 286; p. 54.
- Bash Oil and Refining Company. (See Hoge, Daniel W., assignor.)
- Bashara, Sam F. (See Humason, G. A., Bashara, and Barraco.)
- Bashara, Samuel F., Houston, Tex. Well-screen cleaner. No. 1,380,517; June 7; v. 287; p. 36.
- Bashwiner, Charles, Brooklyn, N. Y. Display-box. No. 1,379,240; May 24; v. 286; p. 728.
- Basile, Joseph, New York, assignor of one-half to Greenpoint Metallic Bed Company, Brooklyn, N. Y., and one-half to Joseph Turk Manufacturing Co., Bradley, Ill. Bedstead. No. 1,391,448; Sept. 20; v. 290; p. 535.
- Basinger, Perry. (See Wilson, Samuel J., assignor.)
- Baskeviller, Charles, New York, N. Y. Coating ferrous metals. No. 1,378,439; May 17; v. 286; p. 502.
- Baskeviller, John B., Roanoke, Va. Verifier. No. 1,370,267; Mar. 1; v. 284; p. 98.
- Baskin, Edwin T., Kansas City, Mo. Three-finger mitten. No. 1,378,758; May 17; v. 286; p. 564.
- Baskin, William H., Macon, Ga. Tool for demountable rims. No. 1,396,617; Nov. 8.
- Basler Machinery Company. (See Wright, W. C., Young, and Grover, assignors.)
- Basler, Norman E., St. Louis, Mo. Rail-antispreading device. No. 1,387,340; Aug. 9; v. 289; p. 345.
- Basley, Harvey V., Jersey City, N. J. Safety-clasp. No. 1,396,311; Nov. 8.
- Basmaison, Pierre, San Francisco, Calif. Extension-bit. No. 1,401,455; Dec. 27.
- Basore, Cleburne A., Auburn, Ala. Production of alcohol from gas containing ethylene. No. 1,385,515; July 26; v. 288; p. 673.
- Basore, Cleburne A., Auburn, Ala. Production of alcohol from gas containing ethylene. (Reissue.) No. 15,211; Oct. 25.
- Bass Bros. (See Sylvester, Seymour, assignor.)
- Bass, Edith M., Concord Junction, Mass. Darning device. No. 1,382,455; June 21; v. 287; p. 516.
- Bass, John, Bois-Colombes, France. Grinding of anti-friction-rollers. No. 1,375,890; Apr. 26; v. 285; p. 619.
- Bass, Joseph W., San Francisco, Calif. Metallurgical process. No. 1,386,226; Aug. 2; v. 289; p. 53.
- Bass, Thomas G., Spur, Tex. Axle-lubricator. No. 1,397,352; Nov. 15.
- Basset, Lucien P., Paris, France. Revolving furnace. No. 1,372,392; Mar. 22; v. 284; p. 670.
- Bassett, Alvin J., assignor to Milwaukee Reliance Boiler Works, Milwaukee, Wis. Gas-producer. No. 1,390,868; Sept. 13; v. 290; p. 354.
- Bassett, Fred R., Paw Paw, Mich. Vending-machine. No. 1,397,615; Nov. 22.
- Bassett, George B. (See Ritter, Edward A., assignor.)
- Bassett, Harry P., Cynthia, Ky. Separating the potassium content of potassium-containing liquors. No. 1,380,035; May 31; v. 286; p. 952.
- Bassett, Harry P., Cynthia, Ky. Basic refractory material. No. 1,390,328; Sept. 13; v. 290; p. 246.
- Bassett, Harry P., Cynthia, Ky. Treating waste denitrification liquors. No. 1,390,329; Sept. 13; v. 290; p. 246.
- Bassett, Harry P., Cynthia, Ky., and S. S. Sadler, Springfield township, Montgomery county, Pa. Recovering volatile solvents. No. 1,395,040; Nov. 1.
- Bassett, Henry P., Cynthia, Ky. Acid-proof refractory composition. No. 1,390,327; Sept. 13; v. 290; p. 246.
- Bassett, John R., Blakes, Va. Traction attachment for vehicle-wheels. No. 1,371,462; Mar. 15; v. 284; p. 435.
- Bassett, May, Des Moines, Iowa. Steamer device for millinery-work. No. 1,373,938; Apr. 5; v. 285; p. 109.
- Bassett, Preston R., Brooklyn, N. Y. Pocket-light. No. 1,380,344; June 7; v. 287; p. 4.
- Bassett, Robert S., Buffalo, N. Y. Water-meter. No. 1,390,664; Sept. 13; v. 290; p. 315.
- Bassett, Thomas Z., Judsonia, Ark. Combination eyeglass testing and display device. No. 1,384,226; July 12; v. 288; p. 250.
- Bassette, John G., assignor to Groton Electrical Devices Inc., Groton, N. Y. Coin-controlled electric switch. No. 1,378,933; May 24; v. 286; p. 670.
- Bassford, William K., Metuchen, assignor of one-half to J. L. MacDowall, Perth Amboy, N. J. Safety device for liquid-fuel burners. No. 1,367,581; Feb. 8; v. 283; p. 196.
- Bassick Co., The. (See McTighe, Edward F., assignor.)



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- Bassick Company, The. (See Cummins, Norman W., assignor.)  
 Bassick Company, The. (See Diss, Daniel B., assignor.)  
 Bassick Company, The. (See Moore, Raymond G., assignor.)  
 Bassick Manufacturing Co., The. (See Davis, Ernest W., assignor.)  
 Bassick Manufacturing Company, The. (See Davis, Theodore H., assignor.)  
 Bassick Manufacturing Company, The. (See Fesler, Douglas F., assignor.)  
 Bassick Manufacturing Company, The. (See Gullborg, Arthur V., assignor.)  
 Bassisty, Michael, New York, N. Y. Automatic hand embroidering-machine. No. 1,389,115; Aug. 30; v. 289, p. 860.  
 Bassler, Edwin M., Milwaukee, Wis. Radiator. No. 1,368,318; Feb. 15; v. 283; p. 385.  
 Bassler, Edwin M., Milwaukee, Wis. Process and apparatus for drying materials. No. 1,374,874; Apr. 12; v. 285; p. 330.  
 Basso, Nicholas, Victoria, British Columbia, Canada. Support for pneumatic hammers. No. 1,381,535; June 14; v. 287; p. 282.  
 Bast, Joseph H., Chicago, Ill. Metal-feeder for linotype-machines. No. 1,365,218; Jan. 11; v. 282; p. 270.  
 Baster, Harry C., Benton Harbor, Mich. Loose-leaf filing system or posting-tray. No. 1,389,116; Aug. 30; v. 289, p. 860.  
 Baster, Harry C., Benton Harbor, Mich. Loose-leaf-filing-system posting-tray. No. 1,397,616; Nov. 22.  
 Bastian, August H., Hillsdale, Oreg. Raker-gage for cross-cut-saws. No. 1,376,065; Apr. 26; v. 285; p. 653.  
 Bastian Blessing Company, The. (See Bastian, C. L., and Mathisen, assignors.)  
 Bastian Bros. Company. (See Bott, Joseph, assignor.)  
 Bastian Bros. Co. (See Mitchell, Charles E., assignor.)  
 Bastian, Charles L., Chicago, Ill. Fluid-pressure-regulating valve. No. 1,394,395; Oct. 18.  
 Bastian, Charles L., Chicago, Ill. Dispensing apparatus. No. 1,399,373; Dec. 6.  
 Bastian, Charles L., and H. Mathisen, assignors to The Bastian Blessing Company, Chicago, Ill. Combination draft-arm. No. 1,396,915; Nov. 15.  
 Baston, Edward S., Georgetown, Ky. Insect-powder gun. No. 1,369,215; Feb. 22; v. 283; p. 600.  
 Batchelder, Asa F., assignor to General Electric Company, Schenectady, N. Y. Self-propelled motor-car. No. 1,379,995; Apr. 26; v. 285; p. 639.  
 Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Locomotive or car. No. 1,394,059; Oct. 18.  
 Batchelder, Frank R. (See Jennings, Victor H., assignor.)  
 Batchelder, Frank R., assignor to Mills Belt Company, Worcester, Mass. Cartridge-carrier. No. 1,374,712; Apr. 12; v. 285; p. 299.  
 Batchelder, Frank R., assignor to Mills Belt Company, Worcester, Mass. Woven pocketed carrier. No. 1,375,442; Apr. 19; v. 285; p. 502.  
 Batchelder, Frank R., assignor to Mills Belt Company, Worcester, Mass. Woven carrier equipment. No. 1,392,551; Oct. 4.  
 Batchelder, Frank R., assignor to Mills Belt Company, Worcester, Mass. Wide belt and fastener therefor. No. 1,399,457; Dec. 6.  
 Batchelder, Harry B., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Stock-winding device. No. 1,370,268; Mar. 1; v. 284; p. 98.  
 Bate, Alfred J., Yonkers, N. Y. Painting gold-balls. No. 1,382,615; June 28; v. 287; p. 600.  
 Bate, Ira D., West Jefferson, Ohio. Farm-gate. No. 1,367,226; Feb. 1; v. 282; p. 68.  
 Bate, John W., Racine, Wis. Hood-clamp. No. 1,394,962; Oct. 25.  
 Bateman, William M., Newark, Del. Hooking device. No. 1,380,631; June 7; v. 287; p. 58.  
 Batemon, Thomas A., Los Angeles, Calif. Valveless rotary pump. No. 1,388,234; Aug. 23; v. 289; p. 630.  
 Bates, Adelmor M., assignor to Bates Valve Bag Co., Chicago, Ill. Tool for tying wire ties. No. 1,365,649; Jan. 18; v. 282; p. 392.  
 Bates, Adelmor M., assignor to Bates Valve Bag Company, Chicago, Ill. Bag-tying tool. No. 1,373,939; Apr. 5; v. 285; p. 109.  
 Bates, Arthur, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of turn shoes. No. 1,366,896; Feb. 1; v. 283; p. 3.  
 Bates, Arthur, Leicester, England, assignor to United Shot Machinery Corporation, Paterson, N. J. Machine for making nails. No. 1,379,611; May 31; v. 286; p. 872.  
 Bates, Arthur, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,398,293; Nov. 29.  
 Bates, Eddo V., Lowell, Mass. Garnett-worker breast for wool-cards. No. 1,368,319; Feb. 15; v. 283; p. 386.  
 Bates, Edward K., assignor to Lane Manufacturing Company, Montpelier, Vt. Offset mechanism for sawmill-carriages. No. 1,365,297; Jan. 11; v. 282; p. 285.  
 Bates, Frank C., assignor to J. B. Stader, Kansas City, Mo. Vending-machine. No. 1,384,586; July 12; v. 288; p. 325.  
 Bates, George E., Syracuse, N. Y. Direction-indicator for motor-vehicles. No. 1,364,172; Jan. 4; v. 282; p. 24.  
 Bates, Harry, *et al.* (See Kidder, Wellington F., assignor.)  
 Bates, Harry, New York, N. Y. Educational typewriter-keyboard device. No. 1,385,356; July 26; v. 288; p. 640.  
 Bates, Harry, New York, N. Y. Memory-clock. No. 1,385,656; July 26; v. 288; p. 702.  
 Bates, Harry, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,368,599; Feb. 15; v. 283; p. 441.  
 Bates, Harry, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,370,508; Mar. 8; v. 284; p. 187.  
 Bates, Harry E. (See Samuels, J. D., and Bates.)  
 Bates, Harry H., assignor to Bates Machine and Tractor Company, Joliet, Ill. Tractor. No. 1,369,316; Feb. 22; v. 283; p. 618.  
 Bates, John H., Chicago, Ill. Head-brush. No. 1,382,161; June 21; v. 287; p. 459.  
 Bates, John H., Chicago, Ill. Attachment for player-pianos. No. 1,390,421; Sept. 13; v. 290; p. 264.  
 Bates, John R., Chicago, Ill. Hydrocarbon-gas burner. No. 1,387,459; Aug. 16; v. 289; p. 419.  
 Bates, Lindon W., Mount Lebanon, N. Y. Producing gas. No. 1,373,704; Apr. 5; v. 285; p. 63.  
 Bates, Lindon W., Mount Lebanon, N. Y. Fuel and producing same. No. 1,375,811; Apr. 26; v. 285; p. 603.  
 Bates, Lindon W., Mount Lebanon, N. Y. Protecting ships. No. 1,379,241; May 24; v. 286; p. 728.  
 Bates, Lindon W., Mount Lebanon, N. Y. Lowering the viscosity of liquids. No. 1,382,456; June 21; v. 287; p. 516.  
 Bates, Lindon W., Mount Lebanon, N. Y. Fuel and producing same. No. 1,382,457; June 21; v. 287; p. 516.  
 Bates, Lindon W., Mount Lebanon, N. Y. Fuel and producing same. No. 1,390,228; Sept. 6; v. 290; p. 134.  
 Bates, Lindon W., Mount Lebanon, N. Y. Raising the specific gravity and flash-points of liquids. No. 1,390,229; Sept. 6; v. 290; p. 134.  
 Bates, Lindon W., Mount Lebanon, N. Y. Transporting carbonaceous substances. No. 1,390,230; Sept. 6; v. 290; p. 134.  
 Bates, Lindon W., Mount Lebanon, N. Y. Fuel and producing same. No. 1,390,231; Sept. 6; v. 290; p. 134.  
 Bates, Lindon W., Mount Lebanon, N. Y. Liquid fuel and manufacturing it. No. 1,390,232; Sept. 6; v. 290; p. 134.  
 Bates, Lindon W., Mount Lebanon, N. Y. Increasing the specific gravity and flash-point of liquids. No. 1,390,233; Sept. 6; v. 290; p. 135.  
 Bates, Lindon W., Mount Lebanon, N. Y. Fireproof-storing mobile fuel. No. 1,394,060; Oct. 18.  
 Bates Machine and Tractor Company. (See Bates, Harry H., assignor.)  
 Bates, Ralph E., assignor to Okay Motor Manufacturing Company, Inc., Brooklyn, N. Y. Motor attachment for bicycles. No. 1,364,476; Jan. 4; v. 282; p. 83.  
 Bates, Sherman A., Collins, Iowa. Automobile-radiator. No. 1,368,098; Feb. 8; v. 283; p. 294.  
 Bates Valve Bag Co. (See Bates, Adelmor M., assignor.)  
 Bates, William F., Dallas, Tex. Fountain-brush. No. 1,387,754; Aug. 16; v. 289; p. 480.  
 Bath, John, Worcester, Mass., assignor to John Bath & Co. Reference-gage. No. 1,369,317; Feb. 22; v. 283; p. 618.  
 Bath, John, & Co. (See Bath, John, assignor.)  
 Bathke, Fred W., *et al.* (See Scheve, Frets C., assignor.)  
 Bathurst, Charles, *et al.*, executors. (See Thomas, H. S., Davies, and Thomas.)  
 Bathurst, Thomas T., Kansas City, Mo. Spark-plug. No. 1,384,818; July 19; v. 288; p. 454.  
 Batson, Joseph A. (See McQueen, R. O., and Batson.)  
 Battelle, Percy E., Louisa, Va. Log-jack. No. 1,392,885; Oct. 4.  
 Batten, Clyde H., Oakland, Calif. Direction-signal. No. 1,370,400; Mar. 1; v. 284; p. 122.  
 Batten, Edward, assignor of one-fourth to R. W. T. Vaile, Beckenham, one-fourth to A. Barber, Bromley, and one-fourth to Beckenham Motor Company, Limited, Beckenham, England. Pump. No. 1,370,181; Mar. 1; v. 284; p. 81.  
 Battle Creek Appliance Co. (See Bobo, Walter T., assignor.)  
 Battle Creek Appliance Company. (See Rehthaler, Louis, assignor.)  
 Battner, Stephen, Brooklyn, N. Y. Pneumatic-action unit. No. 1,401,857; Dec. 27.  
 Baits, William O., Wilmot, Kans. Track supporting and fastening means. No. 1,382,458; June 21; v. 287; p. 510.  
 Batts, William O., Wilmot, Kans. Safety apparatus for trains or cars. No. 1,392,620; Oct. 4.  
 Batty, Walter L., Baltimore, Md. Package and article carrier for motorcycle side cars. No. 1,385,771; July 26; v. 288; p. 725.  
 Baty, George. (See Frisbie, R. A., and Baty.)  
 Bauchet, Henry, Sens, France. Ground-gripping device for tractor. No. 1,395,549; Nov. 1.  
 Baude, Joseph R., Chicago, Ill. Antiskid device. No. 1,375,201; Apr. 19; v. 285; p. 456.



- Bauder, Victor S., Fort Plain, N. Y. Silo. No. 1,387,751; Aug. 16; v. 289; p. 479.
- Baudouin, Marie L. L., Besancon, France. Extraction of value from highly-chrome solutions. No. 1,375,441; Apr. 19; v. 289; p. 592.
- Baurisch, Hans, Vienna, Austria, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine. No. 1,379,796; May 31; v. 286; p. 906.
- Bauer & Black. (See Doran, Charles A., assignor.)
- Bauer & Black. (See Searp, William H., assignor.)
- Bauer Brothers Company, The. (See Maloney, Daniel, assignor.)
- Bauer, Carl E., Hammond, Ind. Drawbar-yoke. No. 1,376,681; Apr. 26; v. 285; p. 595.
- Bauer, Ernst, assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical regulation. No. 1,380,764; June 7; v. 287; p. 84.
- Bauer, Frederick C., Philadelphia, Pa. Toy gravity-railway. No. 1,368,781; Feb. 15; v. 283; p. 476.
- Bauer, Frederick E., Java, S. D. Oil-can. No. 1,377,797; May 10; v. 286; p. 328.
- Bauer, George. (See Augustin E. J., and Bauer.)
- Bauer, George, et al. (See Augustin, Edwin J., assignor.)
- Bauer, George P., Miami, Ariz. Traction-mat. No. 1,375,666; Apr. 26; v. 285; p. 577.
- Bauer, John, Detroit, Mich. Shoe-polishing device. No. 1,390,869; Sept. 13; v. 290; p. 355.
- Bauer, John, Detroit, Mich. Aircraft. No. 1,395,249; Nov. 1.
- Bauer, John G. (See Roeling, H. W., Williams, and Bauer.)
- Bauer, John J., assignor to The Thrift Jar Company, Baltimore, Md. Jar-capping machine. No. 1,398,002; Nov. 22.
- Bauer, Martha V., Washington D. C. Manicuring instrument. No. 1,365,883; Jan. 18; v. 282; p. 439.
- Bauer, Paul, and B. J. Fitzsimmons, Baltimore, Md. Bolt. No. 1,367,763; Feb. 8; v. 283; p. 231.
- Bauer, Walter, assignor to Firm of Rohm & Haas, Darmstadt, Hessa, Germany. Manufacture of alkylene cyanhydrins. No. 1,388,016; Aug. 16; v. 289; p. 531.
- Bauerle, John, assignor to The Hauser-Stander Tank Company, Cincinnati, Ohio. Tank. No. 1,381,693; June 14; v. 287; p. 312.
- Bauerle, George D. (See Miller, Frank W., assignor.)
- Bauert Carl, Forbes, and W. H. Bauert, Shirley Road, Roseville, New South Wales, Australia. Comb of harvesters. No. 1,368,014; Feb. 8; v. 283; p. 278.
- Bauert, William H. (See Bauert, Carl, and W. H.)
- Baugatz, Frederic G., Paris, France. Abdominal belt. No. 1,392,101; Sept. 27; v. 290; p. 740.
- Baughman, David, Pierce, Fla. Building construction. No. 1,390,951; Sept. 13; v. 290; p. 372.
- Baukhage, Frederick R. (See Collins, W. H., and Baukhage.)
- Baule, Arno B., and W. G. Kirchhoff, Canton, Ohio. Operating device for valve-grinders. No. 1,386,674; Aug. 9; v. 289; p. 212.
- Baum, Charles, Brooklyn, N. Y. Snap-fastener. No. 1,386,306; Aug. 2; v. 289; p. 69.
- Baum, Chester E., and R. A. Peacock, Delaware City, Del. Combined rocking and revolving chair. No. 1,395,698; Nov. 1.
- Baum, David, Livermore Falls, Me. Glove-finger-supporting tube. No. 1,378,646; May 17; v. 286; p. 542.
- Baum, Edward C., and D. O. Jones, assignors to Armour Fertilizer Works, Chicago, Ill. Production of aluminum chloride. No. 1,372,332; Mar. 23; v. 284; p. 659.
- Baum, Shular, Union, N. Y. Ball-bearing device. No. 1,383,372; July 5; v. 288; p. 24.
- Baum, William, Milwaukee, Wis., assignor to General Electric Company. Submersible motor. No. 1,380,943; June 7; v. 287; p. 119.
- Bauman, Martin, Akron, Ohio. Artificial laboring-hand. No. 1,378,578; May 17; v. 286; p. 529.
- Baumann, Alfred, Cassel, Germany. Optical instrument. No. 1,397,156; Nov. 15.
- Baumann, Gilbert A. (See Carpenter, A. H., and Baumann.)
- Baumann, Gottfried P., Chicago, and R. A. Pink, Oak Park, Ill. Loose-leaf binder. No. 1,375,667; Apr. 26; v. 285; p. 578.
- Baumann, Gustav, assignor of one-half to A. Lederle, Rahway, N. J. Wheel. No. 1,389,807; Sept. 6; v. 290; p. 49.
- Baumann, Karl, Urmston, and A. E. L. Scanes Ashton-on-Mersey, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Condensing-steam-turbine installation. No. 1,372,929; Mar. 29; v. 284; p. 817.
- Baumann, Karl, Urmston, and A. E. L. Scanes, Ashton-on-Mersey, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Condensing-steam-turbine installation. No. 1,372,930; Mar. 29; v. 284; p. 817.
- Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Steam-turbine. No. 1,375,075; Apr. 19; v. 285; p. 432.
- Baumann, Karl, Urmston, England, assignor to Westinghouse Electric & Manufacturing Co. Radial-flow steam-turbine. No. 1,375,076; Apr. 19; v. 285; p. 432.
- Baumann, Karl, Urmston, England, assignor to Metropolitan-Vickers Electrical Company, Limited. Steam-turbine. (Reissue.) No. 15,092; Apr. 26; v. 285; p. 714.
- Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Axial-flow steam-turbine. No. 1,386,983; Aug. 9; v. 289; p. 274.
- Baumann, Joseph G., Philadelphia, Pa., assignor to A. C. Layman, Wilmington, Del. Safety-hook for glazing-machines. No. 1,392,011; Sept. 27; v. 290; p. 729.
- Baumann, Leon F., Fitzdale, Vt. Attachment for bag-making machines. No. 1,400,404; Dec. 13.
- Baumann, William J. (See Hawksley, C., and Baumann.)
- Baumblatt, Emil, Jr., Philadelphia, Pa. Cuff or sleeve for shirts. No. 1,383,511; July 5; v. 288; p. 33.
- Baume, Frank J., Mulhouse, Alsace-Lorraine. Shuttle-mover. No. 1,373,705; Apr. 5; v. 285; p. 63.
- Baumgard, Frank H., Columbus, Ohio. Candy-sugaring machine. No. 1,391,604; Sept. 20; v. 290; p. 566.
- Baumgardner, Henry C., Ann Arbor, Mich. Spraying-machine. No. 1,377,654; May 10; v. 286; p. 300.
- Baumgardner, Henry C., Ann Arbor, Mich. Spraying device. No. 1,384,296; July 12; v. 288; p. 261.
- Baumgartl, Leroy, Chicago, Ill. Machine for manufacturing slabs or the like of cement or like material. No. 1,367,227; Feb. 1; v. 283; p. 68.
- Baumgartl, Leroy, Chicago, Ill. Automobile-bumper. No. 1,372,737; Mar. 29; v. 284; p. 777.
- Baumgartl, Leroy, Chicago, Ill. Automobile-bumper. No. 1,374,978; Apr. 19; v. 285; p. 412.
- Baumgartl, Leroy, Chicago, Ill. Automobile-bumper. No. 1,381,614; June 14; v. 287; p. 296.
- Baumgartl, Leroy, assignor to Bauspring Bumper Company, Chicago, Ill. Automobile-bumper. No. 1,383,515; July 5; v. 288; p. 53.
- Baumgartner, Charles B., assignor to National Manufacturing Company, Manchester, Iowa. Latching means for flexible gates. No. 1,388,017; Aug. 16; v. 289; p. 531.
- Baumgartner, John A. (See Raich, John B., assignor.)
- Baumgartner, Moses M., Freeport, Ill. Treating rice and product thereof. No. 1,364,912; Jan. 11; v. 282; p. 211.
- Baumgartner, Moses M., Freeport, Ill. Whole-rice meal. No. 1,399,920; Dec. 13.
- Baumgartner, Walter J., assignor to Duplex Engine Governor Company, Inc., Brooklyn, N. Y. Operating connection. No. 1,390,482; Sept. 13; v. 290; p. 276.
- Baumbauer, Heinrich, Charlottenburg, near Berlin, Germany, assignor, by mesne assignments, to Patent-Treuhand-Gesellschaft fuer Electricische Gluhlampen, M. B. H., Berlin, Germany. Electric glow-lamp. No. 1,401,510; Dec. 27.
- Baumler, Albert J., Kenmore, assignor to The Buffalo Sled Company, Buffalo, N. Y. Wheel-mounting. No. 1,367,006; Feb. 1; v. 283; p. 25.
- Baumler, Charles A., assignor to The Buffalo Sled Company, Buffalo, N. Y. Wheel-mounting. No. 1,401,939; Dec. 27.
- Baur, Hugo J., Chicago, Ill., assignor to Johnson Coin Counting Machine Company. Coin-counting machine. No. 1,382,050; June 21; v. 287; p. 439.
- Baur, John. (See Tremer, Arnold H., assignor.)
- Bausch & Lomb Optical Company. (See Patterson, William L., assignor.)
- Bausch & Lomb Optical Company. (See Simpson, Leon G., assignor.)
- Bausch Machine Tool Company. (See Babson, Roger D., assignor.)
- Bausch Machine Tool Company. (See Oakley, John, assignor.)
- Bausch Machine Tool Company. (See Wetsel, West, assignor.)
- Bausman, George A., assignor to National Equipment Company, Springfield, Mass. Refining apparatus. No. 1,381,269; June 14; v. 287; p. 232.
- Bausman, George A., assignor to National Equipment Company, Springfield, Mass. Maturing of chocolate and the like. No. 1,381,694; June 14; v. 287; p. 312.
- Bayer, Martin E., Allentown, Pa. Display-casel. No. 1,379,612; May 31; v. 286; p. 873.
- Bavor, John J., Cleveland, Ohio. Dirigible headlight. No. 1,373,706; Apr. 5; v. 285; p. 63.
- Baxter, Aldrich. (See West, F. J., Jackson, and Leader, assignors.)
- Baxter, Alexander L., Masury Station, Ohio. Poured-concrete-cement block. No. 1,386,754; Aug. 9; v. 289; p. 228.
- Baxter, Daniel L., Pawtucket, R. I. Package-wrapper. No. 1,384,115; July 12; v. 288; p. 227.
- Baxter, Ernest H., Chicago, Ill. Fuse-Plug. No. 1,379,436; May 24; v. 286; p. 765.
- Baxter, Ernest H., Chicago, Ill. Fuse-plug. No. 1,384,028; July 5; v. 288; p. 159.
- Baxter, Ernest W., Van Wert, Ohio. Governor for gas-engines. No. 1,376,503; May 3; v. 286; p. 24.
- Baxter, Kenneth S., assignor to Sheet Steel Products Company, Michigan City, Ind. Cab-door. No. 1,390,483; Sept. 13; v. 290; p. 276.



*Alphabetical list of patentees—Continued.*

- Baxter, Kenneth S., Bryan, Ohio, assignor, by mesne assignments, to The Sheet Steel Products Co., Michigan City, Ind. Truck-cab. No. 1,393,071; Oct. 11.
- Baxter, Tazet, London, England. Locking device for bolts, nuts, and the like. No. 1,371,596; Mar. 15; v. 284; p. 461.
- Baxter, Philip H., Croydon, Iowa, assignor to Deere & Company, Moline, Ill. Check-head for planters. No. 1,390,748; Sept. 13; v. 290; p. 330.
- Baxter, Sidney. (See Reynolds, R. N., and Ballew, assignors.)
- Baxter, Theresa, Los Angeles, Calif. Dress. No. 1,364,232; Jan. 4; v. 282; p. 36.
- Baxter, William C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-leveling machine. No. 1,368,320; Feb. 15; v. 283; p. 386.
- Baxter, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Belt-knife splitting-machine. No. 1,382,755; June 28; v. 287; p. 627.
- Baxter, William E., Louisville, Ky. Portable stove. No. 1,366,444; Jan. 25; v. 282; p. 592.
- Baxter, William L. (See Cuss, C. W., and Baxter.)
- Baxter, William L. (See Thompson, A. E., and Baxter.)
- Bay State Optical Company. (See Cluice, Stephen J., assignor.)
- Bayer, Joseph R., New York, N. Y. Pin ticket. No. 1,383,063; June 28; v. 287; p. 685.
- Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Crib-lock. No. 1,371,597; Mar. 15; v. 284; p. 461.
- Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Bed-spring frame. No. 1,389,930; Sept. 6; v. 290; p. 75.
- Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Panel-bed. No. 1,389,931; Sept. 6; v. 290; p. 75.
- Bayerdorfer, Max, Huguenot Park, N. Y. Key-reminder. No. 1,395,332; Nov. 1.
- Bayerdorfer, Max, Huguenot Park, N. Y. Spiral leg-band. No. 1,395,333; Nov. 1.
- Bayerische Motoren Werke, Aktiengesellschaft. (See Friz, Max, assignor.)
- Bayers, Morton, New York, N. Y. Gasolene-torch. No. 1,368,099; Feb. 8; v. 283; p. 295.
- Bayles, Ernest A., and H. H. Hingham, Helsby, assignor of one-third to E. R. Royston, Liverpool, England. Electrical condenser. No. 1,393,602; Oct. 11.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Exhaust-valve for hammer-drills. No. 1,371,721; Mar. 15; v. 284; p. 485.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rotating construction for percussive tools. No. 1,375,443; Apr. 19; v. 285; p. 502.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rotating device for percussive tools. No. 1,375,444; Apr. 19; v. 285; p. 502.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve. No. 1,383,373; July 5; v. 288; p. 24.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Front head for rock-drills. No. 1,393,072; Oct. 11.
- Bayles, Lewis C., Easton, Pa., assignor to The Ingersoll-Rand Company, Jersey City, N. J. Fluid-actuated motor. No. 1,395,082; Oct. 25.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pneumatic column. No. 1,401,858; Dec. 27.
- Bayles, Lewis C., and F. M. Slater, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Throttle-valve for drills. No. 1,373,853; Apr. 5; v. 285; p. 92.
- Bayless, Isabel I. (See McCaffrey, Mary M., assignor.)
- Bayley, Robert W., assignor to Bayley & Sons, Inc., Brooklyn, N. Y. Lighting unit. No. 1,391,235; Sept. 20; v. 290; p. 492.
- Bayley & Sons. (See Bayley, Robert W., assignor.)
- Bayliss, Jerome Z., assignor of one-half to A. P. Merkel, Cleveland, Ohio. Toy. No. 1,399,537; Dec. 6.
- Baynard, William H. (See Eldins, S. A., and Baynard.)
- Bayne, Emmor M., Philadelphia, Pa. Joint for stovepipes and the like. No. 1,365,884; Jan. 18; v. 282; p. 439.
- Bayne, Emmor M., Philadelphia, Pa. Clothes-drier. No. 1,377,612; May 10; v. 286; p. 291.
- Baynes, Bernard C., et al. (See Berry, George A., assignor.)
- Baynes, Francis, Vancouver, British Columbia, Canada. Wheeled seat. No. 1,369,216; Feb. 22; v. 283; p. 600.
- Bayrer, Homer H., administrator. (See Bayrer, William J.)
- Bayrer, Louis G., assignor to The Billings & Spencer Company, Hartford, Conn. Drop-hammer. No. 1,393,073; Oct. 11.
- Bayrer, William J., deceased, Hartford, Conn.; H. H. Bayrer, administrator, assignor to R. G. Henry, West Hartford, Conn. Lubricating means. No. 1,398,936; Nov. 29.
- Bayreuther, Adolphus E., New York, N. Y. Receptacle-closure device. No. 1,390,749; Sept. 13; v. 290; p. 331.
- Bayuk, Meyer, Philadelphia, Pa. Cigar-package. No. 1,395,467; Nov. 1.
- Bayuk, Meyer, Philadelphia, Pa. Metal cigar-box. No. 1,398,059; Nov. 22.
- Bazeley, Arthur J., Cleveland, Ohio, assignor to The National Malleable Castings Company. Apparatus for the manufacture of cast-steel chain. No. 1,365,650; Jan. 18; v. 282; p. 392.
- Bazeley, Arthur J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling operating mechanism. No. 1,395,250; Nov. 1.
- Bazeley, Arthur J., assignor to The National Malleable Castings Company, Cleveland, Ohio. Coupling operating mechanism. No. 1,395,251; Nov. 1.
- Bazemore, Daniel S., Atlanta, Ga. Cotton-chopper. No. 1,369,604; Feb. 22; v. 283; p. 675.
- Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. No. 1,366,898; Feb. 1; v. 283; p. 3.
- Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Arctic-upper-stamping machine. No. 1,388,842; Aug. 30; v. 289; p. 805.
- Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Buttoning machine. No. 1,400,714; Dec. 29.
- Beach, Charles P., Littleton, N. H. Arbor-press. No. 1,373,588; Apr. 5; v. 285; p. 41.
- Beach, Charles P., Littleton, N. H. Gear-puller attachment. No. 1,394,963; Oct. 25.
- Beach, Chester H., Racine, Wis., assignor to Moore Electric Corporation, Chicago, Ill. Massage-vibrator. No. 1,368,782; Feb. 15; v. 283; p. 476.
- Beach, Chester H., Racine, Wis., assignor to Moore Electric Corporation, Chicago, Ill. Hair-clipper. No. 1,370,269; Mar. 1; v. 284; p. 98.
- Beach, Chester H., assignor to Wisconsin Electric Company, Racine, Wis. Sewing-machine motor. No. 1,382,162; June 21; v. 287; p. 459.
- Beach, Chester H., assignor to Wisconsin Electric Company, Racine, Wis. Electric grinder. No. 1,391,039; Sept. 20; v. 290; p. 452.
- Beach, Chester H., Racine, Wis., assignor to Moore Electric Corporation, Chicago, Ill. Flexible-shaft guard. No. 1,391,092; Sept. 20; v. 290; p. 463.
- Beach, Clarence E., Binghamton, N. Y. Controlling system for storage batteries. No. 1,396,242; Nov. 8.
- Beach, Edward W., Winnetka, Ill. Centrifugal separation. No. 1,373,219; Mar. 29; v. 284; p. 874.
- Beach, Elitch H., Charlotte, Mich. Combined bridge-floor. No. 1,385,421; July 26; v. 288; p. 603.
- Beach, Henry L., Montrose, Pa. Attachment for liquid and gaseous burners. No. 1,367,728; Feb. 8; v. 283; p. 225.
- Beach, Herbert H., Balham, London, England. Combined sifter and shovel. No. 1,398,666; Nov. 29.
- Beach, Howard L., Mount Lebanon, and W. J. Fendner, Pittsburgh, Pa. Dump-car. No. 1,384,819; July 19; v. 288; p. 454.
- Beach, Marie, assignor of one-third to W. Ernst Rose and one-third to E. Ruff, Evansville, Ind. Motor-vehicle light. No. 1,369,953; Mar. 1; v. 284; p. 38.
- Beach, Robert C., San Francisco, Calif. Detachable two-slide automobile-curtain. No. 1,366,510; Jan. 25; v. 282; p. 605.
- Beach, Sylvester J., Portland, Me. Optical instrument. No. 1,389,092; Aug. 30; v. 289; p. 856.
- Beach, Walter L., Flint, Mich. Automobile-signal-controlling device. No. 1,391,360; Sept. 20; v. 290; p. 517.
- Beach, Walter L., Flint, Mich. Exhibitor for signals. No. 1,391,361; Sept. 20; v. 290; p. 517.
- Bead Chain Manufacturing Company, The. (See Goodridge, Gilbert W., assignor.)
- Beadle, Bailey O., Atlantic, Iowa. Non-skid device. No. 1,394,268; Oct. 18.
- Beadle, Blanche E., assignor of one-half to F. L. Beadle, Springfield, Mass. Hair-support. No. 1,366,688; Jan. 25; v. 282; p. 641.
- Beadle, Florence L. (See Beadle, Blanche E., assignor.)
- Beadle, George W., New Rochelle, N. Y., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Collapsible vibration-absorbing support. No. 1,372,991; Mar. 29; v. 284; p. 829.
- Beadle, George W., New Rochelle, N. Y., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Apparatus for pressing up sound-records and the like. No. 1,372,992; Mar. 29; v. 284; p. 829.
- Beadle, George W., New Rochelle, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Resilient clutch for phonographs. No. 1,382,406; June 21; v. 287; p. 596.
- Beardon, Richard Ralph & Court, Agra, India. Elastic tire for wheels of vehicles. No. 1,398,169; Nov. 22.
- Beagle, Fredrick. (See Mayer, W. I., and Beagle.)
- Beagle, Victor E., Binghamton, N. Y. Tractor-truck. No. 1,364,233; Jan. 4; v. 282; p. 36.
- Beagle, Victor E., Binghamton, N. Y. Hoisting-truck. No. 1,364,234; Jan. 4; v. 282; p. 36.
- Beagle, William J., assignor of one-half to J. M. Stever, Syracuse, N. Y. Adjustable-lubricator for loose pulleys. No. 1,367,764; Feb. 8; v. 283; p. 232.
- Beagle, William J., assignor of one-half to J. M. Stever, Syracuse, N. Y. Lubricator. No. 1,393,337; Oct. 11.



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- Beal, Herman L., Brookline, Mass. Rubber heel. No. 1,369,771; Mar. 1; v. 284; p. 4.
- Beal, Michael L., Pasadena, Calif. Sandpapering-machine. No. 1,395,468; Nov. 1.
- Beale, William J. (See Butler, William A., assignor.)
- Beall, Benjamin R., Kansas City, Mo. Treating excelsior. No. 1,389,310; Aug. 30; v. 289; p. 905.
- Beall, Charles R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for the control of railway-switches. No. 1,392,737; Oct. 4.
- Beall, Charles R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling mechanism. No. 1,401,511; Dec. 27.
- Beall, William L., Chicago, Ill., assignor to International Harvester Company. Feed-mill. No. 1,394,803; Oct. 25.
- Beals, Charles C., St. Louis, Mo. Dimension indicator and marker. No. 1,396,806; Nov. 15.
- Beals, Edward A. (See Shepard, W. L., and Beale.)
- Beals, Eri V., Arlington Heights, Mass. Internal-combustion engine. No. 1,398,667; Nov. 29.
- Beam, Aron M., assignor to The American Continuous Reel Company, Denver, Colo. Power-transmitting reciprocal-movement mechanism. No. 1,371,340; Mar. 15; v. 284; p. 410.
- Beam, Jacob B., Punxsutawney, Pa. Automobile-radiator. No. 1,387,755; Aug. 16; v. 289; p. 480.
- Beam, Ulysses S., Lima, Ohio. Antiskid-chain. No. 1,361,682; Jan. 4; v. 282; p. 122.
- Beam, George E. (See Garrett, R. J., and Beam.)
- Bean, Guy M., Los Angeles, Calif., assignor to American Arch Company. Oil-burning-locomotive firebox. No. 1,369,077; Feb. 22; v. 283; p. 573.
- Bean, Harry A., Ness City, Kans. Auto-fork. No. 1,366,156; Jan. 18; v. 282; p. 492.
- Bean, Leon L., Freeport, Me. Split backstay. No. 1,365,080; Jan. 11; v. 282; p. 242.
- Bean, Leon L., Freeport, Me. Tongue and top reinforcement for shoes. No. 1,373,399; Apr. 5; v. 285; p. 4.
- Bean, Kirby H. (See Thaler, Samuel E., assignor.)
- Beanes, Warwick H., Peterborough, England. Baking-oven. No. 1,368,015; Feb. 8; v. 283; p. 279.
- Beanes, Warwick H., Peterborough, England. Baking oven. No. 1,394,706; Oct. 25.
- Bear Manufacturing Company. (See Sandbo, Anton I., assignor.)
- Beard, James R. (See Hunter, P. V., and Beard.)
- Beard, James R., Newcastle-upon-Tyne, England. Protecting device for multiphase alternating-current apparatus. No. 1,398,620; Nov. 29.
- Beard, James T., Jr., Brooklyn, N. Y. Automatic sound-reproducing machine. No. 1,378,647; May 17; v. 286; p. 542.
- Beard, Margurite E., Westhoff, Tex. Typewriter-desk. No. 1,376,312; Apr. 26; v. 285; p. 700.
- Bearden, Hugh F., Atlanta, Ga. Nozzle. No. 1,376,184; Apr. 26; v. 285; p. 666.
- Beardmore, Clarence A., assignor of one-half to W. G. Gott, Annapolis, Md. Liquid-level gage for automobile radiators. No. 1,386,833; Aug. 9; v. 289; p. 245.
- Beardsley, Calvin L., Rock Island, Ill. Bottle-capping machine. No. 1,385,298; July 19; v. 288; p. 552.
- Beardsley, Clinton E., Rice Lake, Wis. Washing-machine. No. 1,381,784; June 14; v. 287; p. 329.
- Beardsley, Walter W., Salem, Oreg. Fruit-dipping machine. No. 1,373,113; Mar. 29; v. 284; p. 852.
- Bearens, Claude, New York, N. Y. Transmission-gear. No. 1,379,512; May 24; v. 286; p. 779.
- Bearens, Claude, New York, N. Y. Transmission-gear. No. 1,398,763; Nov. 29.
- Beafield, Thomas N., Chicago, assignor of one-half to James W. Eliker, Oak Park, Ill. Desk-accessory device. No. 1,370,725; Mar. 8; v. 284; p. 230.
- Bearings Company of America, The. (See Lehmann, Otto H., assignor.)
- Bearse, Aaron, Syracuse, N. Y. Guy-anchor. No. 1,376,854; May 3; v. 286; p. 90.
- Beasley, Alfred E. (See Leonard, Frank B., assignor.)
- Beasley, Alfred E., Toronto, Ontario, Canada, assignor of one-half to F. B. Leonard, Los Angeles, Calif. Steering-wheel lock. No. 1,395,083; Oct. 25.
- Beasley, John T., Blakely, Ga. Plow or cultivator attachment. No. 1,369,954; Mar. 1; v. 284; p. 38.
- Beasley, William F., Plymouth, N. C. Tire construction. No. 1,378,813; May 17; v. 286; p. 478.
- Beaton, A. J., Manufacturing Company, The. (See Koerner, Max R., assignor.)
- Beaton, Angus, Vulcan, Alberta, Canada. Draft-equalizer. No. 1,392,738; Oct. 4.
- Beaton & Caldwell Manufacturing Company, The. (See Caldwell, William H., assignor.)
- Beattie, Frank, Detroit, Mich. Vending-machine. No. 1,395,941; Nov. 1.
- Beattie, John C., assignor of one-half to M. White & Son, London, Ontario, Canada. Water-purifying system for steam-boilers. No. 1,372,393; Mar. 22; v. 284; p. 270.
- Beattie Manufacturing Company, The. (See Beattie, Walter J., assignor.)
- Beattie, Walter J., assignor to The Beattie Manufacturing Company, Cohoes, N. Y. Folding-machine. No. 1,389,117; Aug. 30; v. 289; p. 860.
- Beattie, Walter J., assignor to The Beattie Manufacturing Company, Cohoes, N. Y. Needle and oil guard for sewing-machines. No. 1,394,396; Oct. 18.
- Beatty, David, trustee. (See Beatty, David, assignor.)
- Beatty, David, Berkeley, Calif., assignor to himself as trustee. Material resembling leather. No. 1,382,947; June 28; v. 287; p. 663.
- Beatty, Edward, Harriman, Pa. Nut and washer therefor. No. 1,368,473; Feb. 15; v. 283; p. 417.
- Beatty, John C. (See Clay, W. L., Beatty, and Baker.)
- Beatty, Richard C., Chicago, Ill. Display device. No. 1,378,934; May 24; v. 286; p. 670.
- Beatty, Thaddeus C., Grinnell, Iowa. Chicken-roost. No. 1,371,216; Mar. 15; v. 284; p. 385.
- Beatty, Thomas W., Carey, Ohio. Porcelain-tube-heading machine. No. 1,381,695; June 14; v. 287; p. 312.
- Beatty, Wallace A., New York, N. Y. Moisture-proof package. No. 1,369,159; Feb. 8; v. 283; p. 588.
- Beatty, Wilbur L., South Butte, Mont. Ratchet-wrench. No. 1,400,256; Dec. 13.
- Beatty, William F., Cincinnati, Ohio. Ice-cream cabinet. No. 1,370,270; Mar. 1; v. 284; p. 98.
- Beatty, William G., Fergus, Ontario, Canada. Carrier. No. 1,367,653; Feb. 8; v. 283; p. 210.
- Beatty, William M., Pittsburgh, Pa. Vehicle-spring. No. 1,396,549; Nov. 8.
- Beatty, Walter E. (See Blechschmidt, Arthur F., assignor.)
- Beaty, Wilbur L., South Butte, Mont. Angler's cabinet-vise. No. 1,374,807; Apr. 12; v. 285; p. 317.
- Beaty, Wilbur L., South Butte, Mont. Hand-grip for fishing-rods. No. 1,375,668; Apr. 26; v. 285; p. 578.
- Beaubien, Robert E., assignor to J. S. Arcus, Chicago, Ill. Sales-check holder. No. 1,368,999; Feb. 22; v. 283; p. 557.
- Beauchamp, Virgil L., Evanston, Ill. Powder-box. No. 1,389,288; Aug. 30; v. 289; p. 895.
- Beaudoin, Theodore, St. Johns, Quebec, Canada. Packing-ring for pistons and the like. No. 1,379,513; May 24; v. 286; p. 780.
- Beaudot, Georges M., assignor to G. M. Beaudot and A. A. Lion, Paris, France. Magneto pocket-lamp. No. 1,380,180; May 31; v. 286; p. 979.
- Beaumont, Edward D., assignor of one-half to J. Y. Hung, Phoenix, Ariz. Vehicle-wheel. No. 1,394,882; Oct. 25.
- Beaumont, Ernest C., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,393,486; Oct. 11.
- Beaumont, James F., and G. D. Moore, Worcester, Mass. Combined vaporizer and carburetor for liquid fuel. No. 1,365,651; Jan. 18; v. 282; p. 392.
- Beaumont, R. H., Company. (See Hale, William E., assignor.)
- Beaumont-Thomas, Nora C., et al., executors. (See Thomas, H. S., Davies, and Thomas.)
- Beaupre, John P., Butte, Mont., assignor of one-half to G. E. Smiley, La Junta, Colo. Amalgamating sluice-box. No. 1,381,159; June 14; v. 287; p. 212.
- Beauvais, Albert. (See Williams, Frank P., assignor.)
- Beaven, Leslie W., Chicago, Ill. Mechanism for grading aggregates. No. 1,368,422; Feb. 15; v. 283; p. 406.
- Beaver Company, The. (See Roberts, David E., assignor.)
- Beaver Company, The. (See Thickens, John H., assignor.)
- Beaver Machine and Tool Co. (See Schoenberg, Ralph A., now, by judicial change of name, Ralph A. Belmont, assignor.)
- Beaver, Milton S., Reading, Pa. Lock. No. 1,396,550; Nov. 8.
- Beavers, Elmer, Waltham, and W. A. Webber, Watertown, assignors to Sani-Tite Cap Company, Boston, Mass. Lining for jar-caps and sealing-jars. No. 1,382,051; June 21; v. 287; p. 439.
- Beavers, Lambert E., Philadelphia, Pa. Umbrella-support. No. 1,399,683; Dec. 6.
- Beazley, William R., Jacksonville, Fla. Electrode-holder. No. 1,376,185; Apr. 26; v. 285; p. 675.
- Bebie, Jules, assignor to Monsanto Chemical Works, St. Louis, Mo. Producing saccharin. No. 1,366,349; Jan. 25; v. 282; p. 573.
- Bebow, Hans J., Fond du Lac, Wis. Snowplow. No. 1,392,739; Oct. 4.
- Bebr, Percival B., assignor to The Englander Spring Bed Company, Brooklyn, N. Y. Hammock. No. 1,397,201; Nov. 15.
- Beccari, Lodovico, Bologna, Italy. Vial for the conservation of medicamental liquids. No. 1,382,163; June 21; v. 287; p. 459.
- Becher, Gustav, Wald, Germany. Heel with interchangeable tread. No. 1,390,075; Sept. 6; v. 290; p. 104.
- Bechgaard, Poul, Dalby, Sweden. Stone-crusher. No. 1,400,257; Dec. 13.
- Bechman, Louis H., assignor to Duplex Printing Press Company, Battle Creek, Mich. Machine for shaping matrices. No. 1,392,621; Oct. 4.
- Bechoff, Ferdinand, and M. M. Samuels, New York, N. Y., assignors to Lewis & Roth Company, Philadelphia, Pa. Air-break switch. No. 1,378,395; May 17; v. 286; p. 494.
- Bechoff, Ferdinand N. (See Samuels, M. M., and Bechoff.)
- Bechtel, John A., Tarentum, Pa., assignor to Pittsburgh Plate Glass Company. Making glass-melting pots. No. 1,366,861; Jan. 25; v. 282; p. 675.
- Beck, Adolf. (See Pistor, G., Beistein, and Beck.)
- Beck, Arthur A., Bemidji, Minn. Attachment for pencils or the like. No. 1,371,771; Mar. 15; v. 284; p. 494.



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- Beck, Arthur A., Bemidji, Minn. Attachment for pencils. No. 1,396,395; Nov. 8.
- Beck, Arthur G., Norwich, Conn. Convertible toy vehicle. No. 1,364,683; Jan. 4; v. 282; p. 123.
- Beck, Arthur G., Norwich, Conn. Wheeled toy. No. 1,364,684; Jan. 4; v. 282; p. 123.
- Beck, August B., Jersey City, N. J. Girdle. No. 1,401,860; Dec. 27.
- Beck, August B., Jersey City, N. J. Girdle. No. 1,401,861; Dec. 27.
- Beck, Charles L., Lyon, assignor to A. Gehenniaux, Paris, France. Suspension for vehicles. No. 1,398,060; Nov. 22.
- Beck, Charles W., Detroit, Mich. Priming-cup. No. 1,380,345; June 7; v. 287; p. 4.
- Beck, Charles W., assignor to The Beck-Frost Corporation, Detroit, Mich. Priming-cup. No. 1,369,877; Mar. 1; v. 284; p. 24.
- Beck, Charles W., Detroit, Mich., assignor to The Beck-Frost Corporation. Steering-wheel and forming same. No. 1,395,893; Nov. 1.
- Beck, Christoph. (See Bosch, C., Mittasch, and Beck.)
- Beck Duplicator Company, The. (See Danheiser, T., and Fecher, assignors.)
- Beck Duplicator Company. (See Isaacs, Albert, assignor.)
- Beck, Edward E., assignor to Crown Die and Tool Company, Chicago, Ill. Thread-cutting dies. No. 1,395,252; Nov. 1.
- Beck, Erasmus W., Griffin, Ga. Pump. No. 1,380,181; May 31; v. 286; p. 979.
- Beck, Eric, Aberdeen, Wash. Saw. No. 1,384,884; July 19; v. 288; p. 467.
- Beck-Frost Corporation, The. (See Beck, Charles W., assignor.)
- Beck, Heinrich, assignor to General Electric Company, Schenectady, N. Y. Method of and apparatus for preventing injury of searchlight-mirrors. No. 1,375,996; Apr. 26; v. 285; p. 639.
- Beck, Jennings B., Covington, Ky., assignor, by mesne assignments, to Standard Oil Company. Air-service station for automobiles. No. 1,397,916; Nov. 22.
- Beck, Sigmund F., Westville, assignor to one-half to G. A. Hill, New Haven, Conn. Abrasive-feeding mechanism for grinding and polishing machines. No. 1,391,875; Sept. 27; v. 290; p. 694.
- Beck, Sydney A., Burlingame, assignor to Hoover Spring Company, San Francisco, Calif. Bumper-attaching device. No. 1,381,901; June 21; v. 287; p. 411.
- Beck, William E. (See Benbow, P. D., and Beck.)
- Beck, William O., Ridgefield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. No. 1,364,685; Jan. 4; v. 282; p. 123.
- Beck, William O., Ridgefield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. No. 1,379,242; May 24; v. 286; p. 728.
- Beckham Motor Company Limited. (See Batten, Edward, assignor.)
- Becker, Benjamin H., deceased, by H. Becker, executrix, and J. Ciesla, Chicago, Ill. Soap-packing machine. No. 1,367,852; Feb. 8; v. 283; p. 249.
- Becker, Benjamin V., et al., trustees. (See Stephenson, Leigh J., assignor.)
- Becker Brothers. (See Becker, John A. S., assignor.)
- Becker, Charles M. and H., Brooklyn, N. Y. Candy-making machine. No. 1,369,772; Mar. 1; v. 284; p. 4.
- Becker, Dean B., Fort Atkinson, Wis. Bleaching, dyeing, washing, and soaping cylinder for knitting-mills, dye-houses, bleacheries, and laundries. No. 1,391,712; Sept. 27; v. 290; p. 662.
- Becker, Donald B., Watervliet, assignor to Geo. P. Ide & Company, Troy, N. Y. Soft turned-down collar. No. 1,364,608; Jan. 4; v. 282; p. 108.
- Becker, Edmund, Washington, D. C. Cooling of internal-combustion engines. No. 1,371,543; Mar. 15; v. 284; p. 451.
- Becker, Edmund, Washington, D. C. Screw-cutting machine. No. 1,371,544; Mar. 15; v. 284; p. 451.
- Becker, Frederick L., Chicago, Ill. Seat-cover pin. No. 1,364,540; Jan. 4; v. 282; p. 96.
- Becker, George, et al. (See Olsen, Harold, assignor.)
- Becker, George J., New York, N. Y. Bridle-strap for upright pianos. No. 1,366,110; Jan. 18; v. 282; p. 483.
- Becker, George W., assignor to one-half to F. Graber, Massillon, Ohio. Meat-tenderer. No. 1,371,065; Mar. 8; v. 284; p. 294.
- Becker, Harry A., San Francisco, Calif. Door-bolt. No. 1,374,275; Apr. 12; v. 285; p. 214.
- Becker, Hattie, executrix. (See Becker, B. H., and Ciesla.)
- Becker, Herman. (See Becker, Charles M. and H.)
- Becker, Hugo A., assignor to forty-five per cent. to G. A. Aman and twenty-five per cent. to F. Huart, Baltimore, Md. Combination spring and shock-absorber. No. 1,398,929; Nov. 29.
- Becker, Hugo H. A., assignor to Sill Stove Works, Rochester, N. Y. Damper mechanism. No. 1,372,333; Mar. 22; v. 284; p. 659.
- Becker, Johannes P., Berkeley, Calif. Clock-dial. No. 1,370,401; Mar. 1; v. 284; p. 122.
- Becker, John A., Nampa, Idaho. Egg-breaker. No. 1,365,961; Jan. 18; v. 282; p. 454.
- Becker, John A. S., assignor to Becker Brothers, Chicago, Ill. Method of and means for perforating wire-gauze fabric and the like. No. 1,368,233; Feb. 15; v. 283; p. 369.
- Becker, John B., New York, N. Y. Power-transmission device. No. 1,373,790; Apr. 5; v. 285; p. 79.
- Becker, John H., Bloomington, Ill. Ice-creeper. No. 1,374,418; Apr. 12; v. 285; p. 242.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Apparatus and process for the recovery of ammonium sulfate. No. 1,366,111; Jan. 18; v. 282; p. 483.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort-oven. No. 1,374,546; Apr. 12; v. 285; p. 267.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,375,483; Apr. 19; v. 285; p. 509.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,375,484; Apr. 19; v. 285; p. 509.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,375,485; Apr. 19; v. 285; p. 510.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coke-oven-charging car. No. 1,376,313; Apr. 26; v. 285; p. 700.
- Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coke-oven smoke-discharging means. No. 1,376,314; Apr. 26; v. 285; p. 700.
- Becker, Julius, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Pivot-gun. No. 1,376,793; May 3; v. 286; p. 78.
- Becker, Mathias B., Chicago, Ill. Packaging device. No. 1,401,304; Dec. 27.
- Becker, Nathan, New York, N. Y. Drain-plug. No. 1,384,038; July 12; v. 288; p. 211.
- Becker, Philip, et al. (See Olsen, Harold, assignor.)
- Becker, Philip, executor. (See Olsen, Harold.)
- Becker, Rudolph, Roselle Park, N. J. Steering-wheel lock. No. 1,368,382; Feb. 15; v. 283; p. 398.
- Becker, Rudolph, Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing-machines. No. 1,386,307; Aug. 2; v. 289; p. 69.
- Becker, Rudolph, Roselle Park, N. J., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,397,071; Nov. 15.
- Becker, Samuel, Brooklyn, N. Y. Paper-gripping device. No. 1,378,648; May 17; v. 286; p. 543.
- Becker, Sylvester, Rutherford, N. J., assignor to Sterling Bronze Company, New York, N. Y. Molding. No. 1,401,577; Dec. 27.
- Beckert, Adrien C., Los Angeles, Calif. Adjustable dry-dock. No. 1,372,394; Mar. 22; v. 284; p. 670.
- Beckert, Albert R., Lynn, Mass., assignor to General Electric Company. Torsion-spring. No. 1,386,834; Aug. 9; v. 289; p. 245.
- Beckert, Richard E., Revere, Mass. Seal-press, &c. No. 1,399,735; Dec. 13.
- Becket, Frederick M., assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Refining crude electric-furnace silicon. No. 1,386,227; Aug. 2; v. 289; p. 53.
- Beckett, John R., Somerville, Mass. Indexing device. No. 1,387,756; Aug. 16; v. 289; p. 480.
- Beckett, William A., Kingsville, Ontario, Canada. Combined fruit washer and scaldier. No. 1,390,268; Sept. 13; v. 290; p. 234.
- Beckham, E. F., et al. (See White, Tilman, assignor.)
- Beckman, Albert H. E., Stockholm, Sweden. Skee-stopper. No. 1,401,940; Dec. 27.
- Beckman, John W., Berkeley, Calif. Separating sodium carbonate and potassium chlorid from natural alkaline brines. No. 1,393,603; Oct. 11.
- Beckman, Knut A., Stockholm, Sweden. Automatic slack-adjuster for railway-brakes. No. 1,377,386; May 10; v. 286; p. 249.
- Beckman, Raymond W., Indianapolis, Ind. Vehicle spring suspension. No. 1,373,940; Apr. 5; v. 285; p. 110.
- Becknell, George T., Nevada, Tex. Cotton-picking machine. No. 1,382,886; June 28; v. 287; p. 651.
- Beckner, Noah J., assignor to Progressive Commodity Company, Seattle, Wash. Switch-stand lock. No. 1,384,505; July 12; v. 288; p. 307.
- Beckwith, Charles A., Shullsburg, Wis. Fence-staple. No. 1,395,894; Nov. 1.
- Beckwith Company, The. (See Howe, George W., assignor.)
- Beckwith Company. (See Howes, George W., assignor.)
- Beckwith, Harry H. (See Swett, Charles E., assignor.)
- Beckwith, Harry H., Brookline, Mass., and E. E. Cox, Dover, N. H.; said Cox assignor to said Beckwith. Shoestiffener. No. 1,391,932; Sept. 27; v. 290; p. 706.
- Beckwith, Harvey, Bethany, Calif. Beet topping and excavating machine. No. 1,367,853; Feb. 8; v. 283; p. 249.
- Beckwith, Louis I. (See Towle, James M., assignor.)
- Beckwith, Louis I., Boston, Mass. Hammock-support. No. 1,396,498; Nov. 8.
- Bedard, Joseph, Columbus, Ohio. Windshield-protector. No. 1,392,474; Oct. 4.
- Bedaux, Charles E., Cleveland, Ohio. Safety-fender for vehicles. No. 1,386,308; Aug. 2; v. 289; p. 69.



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- Bedell, Clayton E., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Flying boat hull. No. 1,364,325; Jan. 4; v. 282; p. 73.
- Bedell, Lawrence L., Norwalk, Conn. Motor-valve mechanism. No. 1,366,511; Jan. 25; v. 282; p. 605.
- Bedford, Clayton W., assignor to Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing caoutchouc. No. 1,371,662; Mar. 15; v. 284; p. 474.
- Bedford, Clayton W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing caoutchouc. No. 1,371,663; Mar. 15; v. 284; p. 474.
- Bedford, Clayton W., assignor to The Goodyear Tire & Rubber Co., Akron, Ohio. Vulcanizing or curing caoutchouc substances. No. 1,371,664; Mar. 15; v. 284; p. 474.
- Bedford, Clayton W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Compounding rubber. No. 1,380,765; June 7; v. 287; p. 84.
- Bedford, Clayton W., and W. J. Kelly, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Halogenated rubber compound and preparing the same. No. 1,377,152; May 3; v. 286; p. 147.
- Bedford, L. E., *et al.* (See Gruss, George H., assignor.)
- Bedinger, Singleton B., Terrell, assignor of one-half to L. E. Griffith, Jr., Kaufman county, Tex. Bed-attachment. No. 1,368,600; Feb. 15; v. 283; p. 441.
- Bedortha, George Q., Windsor, Conn. Spirit-level. No. 1,393,338; Oct. 11.
- Beebe, Stanley J., Union, N. Y. Upper-leather-cutting machine. No. 1,387,828; Aug. 16; v. 289; p. 495.
- Beeby, Frank E., Chicago, Ill., assignor of one-half to Cement-Gun Construction Company, Chicago, Ill., and one-half to Cement Products Company, Wilmington, N. C. Septic tank. No. 1,381,615; June 14; v. 287; p. 296.
- Beely, Frank F., assignor to Cement-Gun Construction Company, Chicago, Ill. Telephone-booth. No. 1,382,265; June 21; v. 287; p. 479.
- Beecher, Milton E. (See Purdy, R. C., Beecher, and Klein.)
- Beecher, Milton E., assignor to Norton Company, Worcester, Mass. Translucid antislipping-tile. No. 1,374,136; Apr. 5; v. 285; p. 147.
- Beecher, Milton E., Worcester, Mass., assignor to Norton Company. Antislipping vitrified tile. No. 1,377,957; May 10; v. 286; p. 359.
- Beecroft, Edgar C., Pelham Manor, N. Y. Crutch. No. 1,401,305; Dec. 27.
- Beeghly, Francis W., U. S. Navy. Copy-holder. No. 1,374,056; Apr. 5; v. 285; p. 181.
- Beeh, Louis Plainfield, N. J., assignor to Karl P. Scheiner, Brooklyn, N. Y. Internal-combustion engine. No. 1,365,811; Jan. 18; v. 282; p. 424.
- Beehler, Elmer G., Yuma, Colo. Automatic test unit. No. 1,398,312; Nov. 8.
- Beehler, William H., Baltimore, Md. Detachable fastening for umbrellas and the like. No. 1,397,159; Nov. 15.
- Beekman, Ross C., Kansas City, Kans. Washing-machine. No. 1,382,756; June 28; v. 287; p. 627.
- Beem, John C., Sawtelle, Calif. Milking-machine. No. 1,377,546; May 10; v. 286; p. 279.
- Beem, John C., Sawtelle, Calif. Milking-machine. No. 1,377,547; May 10; v. 286; p. 279.
- Beeman, Archibald C., Oklahoma, Okla. Extension for handles. No. 1,389,477; Aug. 30; v. 289; p. 932.
- Beeman, Lyle, assignor to Manufacturers' Hardware Corporation, Milwaukee, Wis. Lathe-center. No. 1,399,921; Dec. 13.
- Beeman, Roscoe H., Albany, N. Y. Lamp globe or shade. No. 1,399,042; Dec. 6.
- Beeman Tractor Company. (See Mader, Joseph, assignor.)
- Beeman Tractor Company. (See Peters, Cornelius A., assignor.) (Reissue.)
- Beemer, Frank, assignor to Vulcan Motor Devices Company, Philadelphia, Pa. Change-speed gearing. No. 1,373,547; Apr. 5; v. 285; p. 33.
- Beerbaum, Henry A., Milwaukee, Wis. Game apparatus. No. 1,396,396; Nov. 8.
- Beers, Earl E., Lakehurst, N. J. Railway safety appliance. No. 1,399,600; Dec. 6.
- Beers, Frederick, New Rochelle, and H. L. Powell, assignors to National Biscuit Company, New York, N. Y. Tray for carrying cakes, &c. No. 1,390,665; Sept. 13; v. 290; p. 315.
- Beery, Isaac N., Jr., Harrisonburg, Va. Abdominal supporter. No. 1,366,897; Feb. 1; v. 283; p. 3.
- Beesmyer, Gilbert H. (See Allison, George B., assignor.)
- Beets, Nicolaas, New York, N. Y., assignor of one-half to W. J. Wilkinson. Block-action for repeating arms. No. 1,387,460; Aug. 16; v. 289; p. 420.
- Begas, Gottfried, Berlin, Germany. Hairdresser's undulating device. No. 1,377,655; May 10; v. 286; p. 300.
- Beggs, George E., Princeton, N. J. Aeroplane bomb-sight. No. 1,383,969; July 5; v. 288; p. 147.
- Begley, Kennus F., White Star, Ky. Mine-car tag-holder. No. 1,379,514; May 24; v. 286; p. 780.
- Bégot, Louis H. E., Paris, France. Cascade extrusion-die for cold or hot spinning of metals. No. 1,395,217; Oct. 25.
- Beitrop, Frederick L. (See Tower, M. L., and Beitrop.)
- Behm, John, assignor of one-half to J. W. Oakes, Grand Haven, Mich. Child's vehicle. No. 1,364,686; Jan. 4; v. 282; p. 123.
- Behn, Guido G., *et al.* (See Hargreaves, Robert C., assignor.)
- Behn, Guido G., assignor to Essex Motors, Detroit, Mich. Vehicle-fender mounting. No. 1,396,351; Nov. 8.
- Behn, Walter J., Detroit, Mich. Universal joint. No. 1,376,504; May 3; v. 286; p. 24.
- Behncke, David L., Chicago, Ill. Aerial-photograph map. No. 1,388,915; Aug. 30; v. 289; p. 820.
- Behne, W. T. (See Patten, John H., assignor.)
- Behning, Robert V., Los Angeles, Calif. Hatrack. No. 1,387,341; Aug. 9; v. 289; p. 346.
- Behr, Edgar G. (See Morgan, George S., assignor.)
- Behr, Hans C., New York, N. Y. Pump and similar apparatus. No. 1,382,336; June 21; v. 287; p. 492.
- Behr, Henrietta, Philadelphia, Pa. Kitchen utensil. No. 1,390,977; Sept. 20; v. 290; p. 439.
- Behr, Herman, & Company. (See Behr, Herman, assignor.)
- Behr, Herman, assignor to Herman Behr & Company, Incorporated, New York, N. Y. Machine for use in manufacturing sandpaper and the like. No. 1,364,827; Jan. 4; v. 282; p. 150.
- Behrens, Richard L. (See Schou, T., and Behrens.)
- Behrens, Walter A., Brooklyn, N. Y. Mechanical movement for electric switches, &c. No. 1,375,247; Apr. 19; v. 285; p. 464.
- Behrens, Walter A., Brooklyn, assignor to W. R. Ostrander & Company, New York, N. Y. Mechanical movement for electric switches, &c. No. 1,368,228; Feb. 8; v. 283; p. 320.
- Behrens, Walter A., assignor to W. R. Ostrander & Company, New York, N. Y. Mechanical movement for electric switches, &c. No. 1,368,992; Feb. 15; v. 283; p. 516.
- Behrman, Marcus B., Tompkinsville, N. Y. Hair-cutting implement. No. 1,395,334; Nov. 1.
- Behrman, Marcus B., New York, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Shaving-stick package. No. 1,379,674; May 31; v. 286; p. 884.
- Behrman, Marcus B., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Lock-tag. No. 1,397,917; Nov. 22.
- Behrmann, Benjamin, Manchester, N. H. Shoe-upper. No. 1,386,228; Aug. 2; v. 289; p. 53.
- Beidler, George C., Rochester, N. Y. Camera. No. 1,371,722; Mar. 15; v. 284; p. 485.
- Beidler, George C., Rochester, N. Y. Photographing and developing apparatus. No. 1,377,454; May 10; v. 286; p. 262.
- Beidler, George C., Rochester, N. Y. Autographic camera. No. 1,377,455; May 10; v. 286; p. 262.
- Beielstein, Albert. (See Pistor, G., Beielstein, and Beck.)
- Beiger, John W., Grand Rapids, Mich., assignor to Haselkelt Manufacturing Corporation. Method of and apparatus for molding wooden sheets. No. 1,369,160; Feb. 22; v. 283; p. 589.
- Beil, John L., Galena, Ill. Switch operating and locking device. No. 1,366,350; Jan. 25; v. 282; p. 573.
- Beil, John L., Galena, Ill., and W. J. O'Neill, Syracuse, N. Y. Crank assembly. No. 1,366,351; Jan. 25; v. 282; p. 573.
- Beissel, Frederick. (See Root, Walter F., assignor.)
- Beisel, William J., Brooklyn, N. Y. Spring-wheel. No. 1,378,516; May 17; v. 286; p. 517.
- Beisel, William J., Port Richmond, N. Y. Wheel-hub. No. 1,378,517; May 17; v. 286; p. 517.
- Beltman, Albert B., East Cleveland, assignor to The Outlook Company, Cleveland, Ohio. Cleaning device. No. 1,368,982; Feb. 15; v. 283; p. 514.
- Beker, Steven, assignor of one-half to C. B. Eckfeld, Unionville, Mich. Antiskid device. No. 1,398,356; Nov. 29.
- Bekkerus, Ole T., Hurdsfield, N. D. Rotary snowplow. No. 1,393,935; Oct. 18.
- Belair, Thomas, Montreal, Quebec, Canada. Commercial-traveler's display-trunk. No. 1,380,861; June 7; v. 287; p. 103.
- Belais, David, and A. R. Bondy, New York, N. Y.; said Bondy assignor to said Belais. White gold. No. 1,391,449; Sept. 20; v. 290; p. 535.
- Beland, Joseph P., Quebec, Quebec, Canada. Bottom and top page-marginer. No. 1,376,996; May 3; v. 286; p. 117.
- Belber Trunk & Bag Company, The. (See Grube, George F., assignor.)
- Belcher, Mark, Goose Creek, Tex. Boring-tool for oil-wells and the like. No. 1,368,538; Feb. 15; v. 283; p. 429.
- Belcher, Mark, Goose Creek, Tex. Wrench. No. 1,386,229; Aug. 2; v. 289; p. 53.
- Belcher, Mark, Goose Creek, Tex. Check-valve. No. 1,399,684; Dec. 6.
- Belcher, Mark, West Columbia, assignor to Hughes Tool Company, Houston, Tex. Break-out tongs. No. 1,400,715; Dec. 20.
- Belcher, Osmond T., Los Angeles, Calif. Wood-weaving loom. No. 1,382,816; June 28; v. 287; p. 638.
- Belcher, Warren J., assignor to The Whitney Manufacturing Company, Hartford, Conn. Drive-chain. No. 1,388,506; Aug. 23; v. 289; p. 686.
- Belczynski, Jan. (See Niegalski, J., and Belczynski.)
- Belden, Clements G., Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City. Bottle-capping apparatus. No. 1,397,617; Nov. 22.



## Alphabetical list of patentees—Continued.

- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Clutch. No. 1,381,960; June 21; v. 287; p. 422.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Vehicle-body. No. 1,383,371; July 5; v. 288; p. 24.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Clutch. No. 1,390,330; Sept. 13; v. 290; p. 246.
- Belden, Robert, Belden, Calif. Washing-machine. No. 1,391,605; Sept. 20; v. 290; p. 567.
- Belding, George A., Billings, Mont. Joint for metal culverts or the like. No. 1,395,253; Nov. 1.
- Belding, Samuel C., Mason City, Iowa. Trap nest. No. 1,395,942; Nov. 1.
- Belger, Otto A. (See Johnson, Leonard, assignor.)
- Belgrove, Henry G. (See Roberts, T. J. E., and Belgrove.)
- Belhumeur, Alfred B., Woonsocket, R. I. Stop motion for twisting-machines. No. 1,385,857; July 26; v. 288; p. 742.
- Belinski, Nicholas D., New York, N. Y. Electrical vaporizer and burner. No. 1,375,646; Apr. 19; v. 285; p. 541.
- Belk, Frank W. and A. E. Varner, Oxford, Miss. Thrust-take-up device. No. 1,384,227; July 12; v. 288; p. 250.
- Belknap, Joel R., Midland, Mich. Vehicle road-track. No. 1,399,043; Dec. 6.
- Belknap, Wilber C., New York, N. Y. Cushion-cap for typewriter-keys. No. 1,364,828; Jan. 4; v. 282; p. 150.
- Belknap, Wilber C., assignor to R. E. Miller, Inc., New York, N. Y. Rubber boot, shoe, galosh, sandal, &c. No. 1,396,313; Nov. 8.
- Belknap, William H., New York, assignor of one-fourth to T. B. Law, Brooklyn, N. Y. Steam-turbine engine. No. 1,378,396; May 17; v. 286; p. 494.
- Bell, Alfred. (See Lambert, A. L., and Bell.)
- Bell, Arthur, Ridgefield Park, N. J. Box-finishing machine. No. 1,392,102; Sept. 27; v. 290; p. 741.
- Bell, Arthur M., Bombay, India, assignor to Taite & Carlton, Westminster, London, England. Continuous automatic fluid pressure brake for railway and like vehicles. No. 1,387,035; Aug. 9; v. 289; p. 285.
- Bell, Charles E., assignor of one-half to S. Hale, Fairmont, W. Va. Check-holder. No. 1,396,499; Nov. 8.
- Bell, Chester C., Galesburg, Ill. Gun. No. 1,391,991; Sept. 27; v. 290; p. 719.
- Bell, Edgar W., New Wilson, Okla. Well-drill socket. No. 1,390,750; Sept. 13; v. 290; p. 331.
- Bell, Frank B., assignor to Edgewater Steel Company, Pittsburgh, Pa. Forging and dies therefor. No. 1,381,102; June 14; v. 287; p. 202.
- Bell, George B., assignor to S. L. Bell, Cambridge, Mass. Vehicle-wheel. No. 1,399,331; Dec. 6.
- Bell, George T., assignor, by mesne assignments, to J. F. C. McCarthy, Boston, Mass. Trolley-pole head. No. 1,378,991; May 24; v. 286; p. 681.
- Bell, H. G. (See Eaton, George M., assignor.)
- Bell, H. G. (See Hile, Thomas J., assignor.)
- Bell, Harry A. (See Scribner, Edward H., and Bell.)
- Bell, James, *et al.* (See Lindsay, John, assignor.)
- Bell, James H., Philadelphia, assignor to The Wyoming Shovel Works, Wyoming, Pa. Reinforcing or stay bolt for tool-handles. No. 1,374,713; Apr. 12; v. 285; p. 299.
- Bell, John E., Brooklyn, N. Y. Cement-kiln plant and operating the same. No. 1,393,738; Oct. 18.
- Bell, John E., Brooklyn, assignor to Power Specialty Company, New York, N. Y. Economizer for steam-boilers. No. 1,392,675; Oct. 4.
- Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,367,729; Feb. 8; v. 283; p. 225.
- Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,379,243; May 24; v. 286; p. 728.
- Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,386,679; Aug. 9; v. 289; p. 213.
- Bell, John H., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective system. No. 1,387,228; Aug. 9; v. 289; p. 321.
- Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,387,229; Aug. 9; v. 289; p. 321.
- Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Synchronizing system. No. 1,388,507; Aug. 23; v. 289; p. 686.
- Bell, Joseph D., Rockford, Ill. Nailing apparatus. No. 1,366,050; Jan. 18; v. 282; p. 471.
- Bell, Joseph D., Rockford, Ill. Davenport bed. No. 1,366,112; Jan. 18; v. 282; p. 483.
- Bell, Joseph D., San Francisco, Calif. Tiltable bed. No. 1,368,205; Feb. 8; v. 283; p. 316.
- Bell, Lorenzo W., assignor of one-half to H. O. Keltner, Carrollton, Mo. Attachment for threshing-machines. No. 1,366,899; Feb. 1; v. 283; p. 4.
- Bell, Lorenzo W., assignor of one-fourth to H. O. Keltner and one-fourth to R. Keltner, Carrollton, Mo. Display apparatus for stock. No. 1,391,933; Sept. 27; v. 290; p. 706.
- Bell, Louis. (See Marshall, N., and Bell.)
- Bell, Louis, and N. Marshall, West Newton, Mass. Method of and apparatus for utilization of observable radiations. No. 1,385,657; July 26; v. 288; p. 702.
- Bell, Raymond T., Chicago, Ill., assignor, by mesne assignments, to Jewett Phonograph Company, Ltd., supporter. No. 1,390,751; Sept. 13; v. 290; p. 331.
- Bell, Richard T., assignor of one-fourth to R. J. Copeland, Toronto, Ontario, Canada. Advertising device. No. 1,379,329; May 24; v. 286; p. 745.
- Bell, Rubin, New York, N. Y. Machine for making hat-lining tips. No. 1,385,240; July 19; v. 288; p. 541.
- Bell, Sarah L. (See Bell, George B., assignor.)
- Bell, Theodore A. (See Vivas, Fernando S., assignor.)
- Bell, Walter A., New York, N. Y. Dark-room lantern. No. 1,374,714; Apr. 12; v. 285; p. 299.
- Bell, William D., Columbus, Ohio. Fuel-heating attachment. No. 1,366,157; Jan. 18; v. 282; p. 492.
- Bell, William F., Canton, N. C. Double-action pump. No. 1,370,515; May 24; v. 286; p. 780.
- Bell, William L., Oakland, Calif. Universal shaft. No. 1,390,484; Sept. 13; v. 290; p. 277.
- Bell, William L., Oakland, Calif. Bolt. No. 1,390,485; Sept. 13; v. 290; p. 277.
- Bellch, Herman A. E., Waubay, S. D. Tire-chain. No. 1,371,140; Mar. 8; v. 284; p. 308.
- Bellair, Edward, assignor to Dupaul, Young Optical Co., Southbridge, Mass. Ophthalmic mounting and making same. No. 1,374,178; Apr. 12; v. 285; p. 196.
- Bellairs, John W., Mishawaka, Ind. Toy vehicle. No. 1,384,738; July 19; v. 288; p. 437.
- Bellamore, David H., New York, N. Y., and T. I. S. Boak, East Orange, N. J., assignors to Standard Ordnance Corporation, New York, N. Y. Making piston-pins. No. 1,385,357; July 26; v. 288; p. 640.
- Bellamy, Charles H., Ottawa, Ontario, Canada. Locomotive safety throttle-lock. No. 1,370,625; Mar. 8; v. 284; p. 211.
- Bellamy, Edward W., Torrington, Conn. Permutation-padlock. No. 1,397,717; Nov. 22.
- Bellamy, Harry L., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Manufacture of composition cores. No. 1,384,587; July 12; v. 288; p. 325.
- Bellan, Eugène, and H. L. Lainé, Paris, France. Device for securing railway-rails to their sleepers. No. 1,395,663; Nov. 1.
- Bellani, Luigi, Milan, Italy. Mechanical despatch apparatus. No. 1,371,723; Mar. 15; v. 284; p. 485.
- Bellay, John, Belleville, N. J. Automobile-jack. No. 1,387,581; Aug. 16; v. 289; p. 445.
- Beller, Albert E., Ogden, Utah. Direction-indicating signal for automobiles. No. 1,387,916; Aug. 16; v. 289; p. 512.
- Belles, Harry W., Stewardson, Ill. Telephone attachment. No. 1,372,795; Mar. 29; v. 284; p. 789.
- Bellican, Robert P., Natchez, Miss. Gate-hinge. No. 1,380,312; May 31; v. 286; p. 1004.
- Bellig, Daniel E., Montoursville, Pa. Brace and corner-block for chairs and other articles of furniture. No. 1,380,518; June 7; v. 287; p. 37.
- Bellingham, John. (See Burrell, W. C., and Bellingham.)
- Bellis, Arthur E., Springfield, Mass., assignor to The Bellis Heat Treating Company, New Haven, Conn. Heat treatment of metals. No. 1,399,044; Dec. 6.
- Bellis, George C., assignor of one-half to T. H. Brown, Butler, Pa. Cleaning oil-wells. No. 1,382,337; June 21; v. 287; p. 492.
- Bellis Heat Treating Company, The. (See Bellis, Arthur E., assignor.)
- Bellman, Edward, Evansville, Wis. Manually-propelled life-saving device and attachment for boats. No. 1,401,233; Dec. 27.
- Bellmore, Frederick H., New Bedford, Mass. Valve-tap-pet. No. 1,401,234; Dec. 27.
- Bellon, Georges, Vincennes, France, assignor to la Société des Anciens Etablissements Loy & Aubé, Paris, France. Suction-burner. No. 1,369,605; Feb. 22; v. 283; p. 675.
- Belloney, Alexander M., U. S. Army. Truck. No. 1,392,103; Sept. 27; v. 290; p. 741.
- Bellony, Alexander M., U. S. Army. Clamping mechanism. No. 1,371,545; Mar. 15; v. 284; p. 451.
- Bellony, Alexander M., U. S. Army. Pile-driving machine. No. 1,395,895; Nov. 1.
- Bellony, Alexander M., U. S. Army. Wheel blocking and jacking device. No. 1,398,534; Nov. 29.
- Bellows, Sheffield D., Kelly Corners, N. Y. Chain-fastener. No. 1,395,896; Nov. 1.
- Bellows, Thomas H., Walla Walla, Wash. Car-replacer. No. 1,364,913; Jan. 11; v. 282; p. 211.
- Bellows, Thomas H., Walla Walla, Wash. Car-replacer. No. 1,391,819; Sept. 27; v. 290; p. 683.
- Bellringer, Sidney M., Baltimore, Md., assignor to Wayne Tool Manufacturing Company, Waynesboro, Pa. Drill tang and socket. No. 1,374,631; Apr. 12; v. 285; p. 284.
- Bellucho, Frank R. (See Upham, B. F., and Bellucho.)
- Belluche, Frank R., Mansfield, assignor to United Printing Machinery Company, Boston, Mass. Adjustable feeding-table. No. 1,395,027; Oct. 25.
- Belluomini, John V., Jackson, Calif. Wrench. No. 1,384,588; July 12; v. 288; p. 325.
- Bellusio, Luigi, Rochester, N. Y. Side car for motor-cycles. No. 1,383,900; July 5; v. 288; p. 133.



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- Bellwald, John N., Mexico, Mexico. Wire rope. No. 1,397,718; Nov. 22.
- Beloff, Mike, New Glasgow, Nova Scotia, Canada. Railway-switch. No. 1,372,476; Mar. 22; v. 284; p. 686.
- Beloit, Harry, Los Angeles, Calif. Deep-oil-well pump. No. 1,396,243; Nov. 8.
- Belpedio, Jobby, Bridgeport, Conn. Reproducer. No. 1,365,146; Jan. 11; v. 282; p. 256.
- Belpedio, Jobby, Bridgeport, Conn. Talking-machine. No. 1,389,478; Aug. 30; v. 289; p. 932.
- Belpedio, Jobby, Bridgeport, Conn. Reproducer. No. 1,399,922; Dec. 13.
- Belt, John A., Washington, D. C. Moistening device. No. 1,388,399; Aug. 23; v. 289; p. 665.
- Belt, John A., Toronto, Ontario, Canada. Centrifugal liquid-evacuator. No. 1,395,218; Oct. 25.
- Belt Power Unit Corporation, The. (See Willits, Guy L., assignor.)
- Belz, Joseph A., Atlantic City, N. J. Toy of knockdown construction. No. 1,367,937; Feb. 8; v. 283; p. 264.
- Beman, Ralph, Cleveland, Ohio, assignor to General Electric Company. Optical checking apparatus. No. 1,401,664; Dec. 27.
- Bement, John W., Denver, Colo. Luggage-rack. No. 1,381,961; June 21; v. 287; p. 423.
- Bement, Nahum C., Rockford, Ill. Drawbar. No. 1,396,500; Nov. 8.
- Bemis, John E., Cedar Rapids, Iowa. Ledger-tray. No. 1,381,902; June 21; v. 287; p. 412.
- Bemis, Thomas, Indianapolis, Ind. Carbureter. No. 1,390,752; Sept. 13; v. 290; p. 331.
- Bemus, Frederick R., Menominee, Mich. Wrench. No. 1,371,463; Mar. 15; v. 284; p. 435.
- Benard, Henri L. M. J., Paris, France. Occulting light. No. 1,384,658; July 12; v. 288; p. 341.
- Benard, Henri L. M. J., Paris, France. Aerial signal-light. No. 1,384,659; July 12; v. 288; p. 341.
- Benbow, James D., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dust-guard for car-axles. No. 1,389,289; Aug. 30; v. 289; p. 895.
- Benbow, James D., assignor to Western Wheeled Scraper Company, Aurora, Ill. Three-way valve. No. 1,395,469; Nov. 1.
- Benbow, Percy D., and W. E. Beck, Winston-Salem, N. C. Stopping device for steering apparatus. No. 1,397,311; Nov. 15.
- Benczalski, Wojciech, Eureka, Calif. Laundry-hanger. No. 1,368,383; Feb. 15; v. 283; p. 319.
- Bender, Berlin, Washington, D. C. Hose-nozzle. No. 1,375,891; Apr. 26; v. 285; p. 619.
- Bender, Carl J., Gnadenhutten, Ohio. Pedal-lock. No. 1,398,122; Nov. 22.
- Bender, Christian C., Seattle, Wash. Automatic universal reproducer and tone-arm. No. 1,394,804; Oct. 25.
- Bender, David G., Blue Island, Ill. Culinary apparatus. No. 1,397,852; Nov. 22.
- Bendien, Jacques. (See Preston, Charles F., assignor.)
- Bender, John G., *et al.* (See Wilson, James M., assignor.)
- Bender, Louis. (See Wasserstein, Joseph, assignor.)
- Bendernagel, William H. (See Wilbur, R. S., and Bendernagel.)
- Bendix, Vincent, Chicago, Ill. Engine-starter. No. 1,372,264; Mar. 22; v. 284; p. 645.
- Bendix, Vincent, Chicago, Ill., and R. Barbour, Paterson, N. J. Sliding-gear transmission. No. 1,372,667; Mar. 29; v. 284; p. 763.
- Bendl, Edward G., Bogota, N. J. Clutch. No. 1,384,820; July 19; v. 288; p. 454.
- Benedict, Bernard, New York, N. Y. Portable electric light. No. 1,365,885; Jan. 18; v. 282; p. 439.
- Benedict, Dirck C., South Bellingham, Wash. Loose-leaf binder. No. 1,394,707; Oct. 25.
- Benedict, Edward. (See Reynolds, Arthur W., assignor.)
- Benedict, Edward L., assignor to National Steel Fabric Company, Pittsburgh, Pa. Clamping device. No. 1,381,270; June 14; v. 287; p. 232.
- Benedict, Edward L., Pittsburgh, assignor of one-half to H. E. Marks, Glen Osborne, Pa. Concrete-roadway-reinforcing fabric. No. 1,388,544; Aug. 23; v. 289; p. 693.
- Benedict, George H., Schenectady, N. Y. Extensometer. No. 1,397,030; Nov. 15.
- Benedict, Herschel A., East Orange, and E. M. Moller, Jersey City, N. J. Combined electric and pneumatic system for cars and the like. No. 1,373,400; Apr. 5; v. 284; p. 4.
- Benedict, Herschel A., East Orange, and E. M. Moller, Jersey City, N. J. Underhang framework or chassis construction. No. 1,387,757; Aug. 16; v. 289; p. 481.
- Benedict, Herschel A., East Orange, and E. M. Moller, Jersey City, N. J. Truck-frame for railway-cars. No. 1,389,616; Sept. 6; v. 290; p. 11.
- Benedict, J. M. (See McAdams, Lewis C., assignor.)
- Benedict, James Z., Cedar Rapids, Iowa. Rope-grip. No. 1,399,182; Dec. 6.
- Benedict, Louis K., Hastings, Fla. Wheel-colter. No. 1,379,613; May 31; v. 286; p. 873.
- Benedict, William K., New City, N. Y. Pipe-cleaner. No. 1,370,271; Mar. 1; v. 284; p. 98.
- Benenati, Nicholas, New York, N. Y. Hat-cleaning machine. No. 1,386,230; Aug. 2; v. 289; p. 54.
- Benford, David M., North Pelham, N. Y. Pulley-face-frictioning composition. No. 1,383,692; July 5; v. 288; p. 90.
- Bengtsson, Johan A., Falköping-Ranten, Sweden. Calipers, dividers, or the like. No. 1,367,765; Feb. 8; v. 283; p. 232.
- Benham, Claude F. (See Euler, W. G. B., Koontz, and Benham.)
- Benham, Edgar M., Norwood, and C. P. Bartels, Hamilton, Ohio, assignors to The Mosler Lock Company, Covington, Ky. Time-lock mechanism for safes. No. 1,400,135; Dec. 13.
- Benham, William B., Washington, D. C. Phonograph repeat mechanism. No. 1,384,034; July 5; v. 288; p. 161.
- Benish, Frank F., *et al.* (See Heibel, Frank B., assignor.)
- Benjamin, Albert W., Yarker, Ontario, Canada. Folding-box. No. 1,368,100; Feb. 8; v. 283; p. 295.
- Benjamin, Bert R., Oak Park, Ill., assignor, by mesne assignments, to International Harvester Company. Guard-finger for harvester-thresher. No. 1,397,942; Nov. 22.
- Benjamin, Charles S. (See Treneer, J. M., and Benjamin.)
- Benjamin, Dana H. (See Brockett, B. W., and Benjamin.)
- Benjamin, Dana H. (See Waream, C. E., and Benjamin.)
- Benjamin, Dana H., Cleveland Heights, and G. N. Link, Cincinnati, assignors to The American Laundry Machinery Company, Norwood, Ohio. Garment press and steaming mechanism. No. 1,392,289; Oct. 4.
- Benjamin, E. V., Company, The. (See Goben, Edward G., assignor.)
- Benjamin Electric Manufacturing Company. (See Benjamin, R. B., and Alden, assignors.)
- Benjamin Electric Manufacturing Company. (See Benjamin, R. B., and Boetter, assignors.)
- Benjamin Electric Manufacturing Company. (See Benjamin, R. B., and Curless, assignors.)
- Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
- Benjamin Electric Manufacturing Company. (See Manau, Frederick A., assignor.)
- Benjamin Electric Manufacturing Company. (See McLean, Phillip S., assignor.)
- Benjamin Electric Manufacturing Company. (See Osburn, B. M., and Walker, assignors.)
- Benjamin, Erlon H., Port Jefferson, N. Y. Nut-lock. No. 1,376,667; May 3; v. 286; p. 54.
- Benjamin, George H., New York, N. Y. Melting-furnace. No. 1,401,456; Dec. 27.
- Benjamin, George R., Jersey City, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Automatic telegraph system. No. 1,370,402; Mar. 1; v. 284; p. 122.
- Benjamin, George S., Detroit, Mich. Window construction. No. 1,384,935; July 19; v. 288; p. 477.
- Benjamin, John M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-positioning device. No. 1,400,716; Dec. 20.
- Benjamin, Jules H. (See Mertz, Otto L., assignor.)
- Benjamin P. Oddyke, Inc. (See Brown, J. W., and Hless, assignors.)
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Fuse-plug. No. 1,374,349; Apr. 12; v. 285; p. 228.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Conductor-gripping device. No. 1,376,066; Apr. 26; v. 285; p. 653.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Lighting device for automobiles. No. 1,376,067; Apr. 26; v. 285; p. 653.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Combination cap and socket. No. 1,376,068; Apr. 26; v. 285; p. 654.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Lighting device for motor-vehicles. No. 1,381,391; June 14; v. 287; p. 255.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric iron. No. 1,391,296; Sept. 20; v. 290; p. 504.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-switch mechanism. No. 1,394,397; Oct. 18.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric-switch mechanism. No. 1,394,398; Oct. 18.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Headlight. No. 1,394,399; Oct. 18.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Outlet-fitting. No. 1,395,084; Oct. 25.
- Benjamin, Reuben B., and W. A. Alden, assignors to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connector device. No. 1,370,509; Mar. 8; v. 284; p. 187.
- Benjamin, Reuben B., and J. M. Curless, assignors to Benjamin Electric Manufacturing Company, Chicago, Ill. Machine for making tinsel. No. 1,377,548; May 10; v. 286; p. 279.



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- Benjamin, Reuben B., and A. V. Boetter, assignors to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connector device. No. 1,379,244; May 24; v. 286; p. 728.
- Benjamin, Samuel M., New York, N. Y. Display device. No. 1,373,992; Apr. 5; v. 285; p. 120.
- Benjamin, Walter L., assignor of one-half to Thomas O'Hanlon Co., Inc., Chinook, Mont. Weatherproof construction for buildings. No. 1,379,516; May 24; v. 286; p. 780.
- Benjamins, Asser J., Brooklyn, N. Y. Device for holding precious stones. No. 1,371,840; Mar. 15; v. 284; p. 507.
- Benjamins, Israel, Brooklyn, N. Y. Hoisting mechanism. No. 1,399,736; Dec. 13.
- Benkovic, Dominik, Milwaukee, Wis. Candle-holder. No. 1,369,000; Feb. 22; v. 283; p. 558.
- Benmayor, Leon. (See Habib, V., and Banmayor.)
- Benn, Erastus H., Watch Hill, R. I. Tie. No. 1,390,190; Sept. 6; v. 290; p. 127.
- Benner, Arthur L., Elgin, Ill. Armored tread for tires. No. 1,375,349; Apr. 19; v. 285; p. 484.
- Benner, Louis C., Toledo, Ohio. Burner. No. 1,372,265; Mar. 22; v. 281; p. 646.
- Benner, Raymond C. (See French, H. F., and Benner.)
- Benner, Raymond C., Fremont, Ohio, assignor to National Carbon Company, Inc. Electric Battery. No. 1,400,513; Dec. 20.
- Benner, Raymond C., and H. F. French, Fremont, Ohio, assignors to National Carbon Company, Inc. Dry cell. No. 1,375,202; Apr. 19; v. 285; p. 456.
- Benner, Raymond C., and H. F. French, Fremont, Ohio, assignors to National Carbon Company, Inc. Depolarizing battery-electrode and making same. No. 1,375,007; Apr. 19; v. 285; p. 541.
- Benner, Raymond C., and H. F. French, Fremont, Ohio, assignor to National Carbon Company, Inc. Electric battery. No. 1,393,739; Oct. 18.
- Benner, Russell E., Flint, Mich. Radiator-core. No. 1,380,132; May 31; v. 286; p. 970.
- Bennett, Carl, Coepenick, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Cleansing with alkali salts of protalbinic and lysalbinic acids. No. 1,367,007; Feb. 1; v. 283; p. 25.
- Bennett, Carl, Coepenick, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Treatment of textile fibers and fabrics. No. 1,379,381; May 24; v. 286; p. 755.
- Bennett, Arthur, Hollinwood, England. Machine for splicing and piecing up cotton, linen, or similar threads. No. 1,396,618; Nov. 8.
- Bennett, Arthur E., assignor of one-half to H. B. Staley, Buffalo, N. Y. Conveying apparatus. No. 1,382,266; June 21; v. 287; p. 479.
- Bennett, Beatrice M., assignor to International Art Publishing Company, Philadelphia, Pa. Pictorial device. No. 1,379,739; May 31; v. 286; p. 896.
- Bennett, Carl W., Dubolstown, Pa. Attachment for umbrellas. No. 1,387,758; Aug. 16; v. 289; p. 481.
- Bennett, Charles K., East Cleveland, assignor to The Eclipse Musical Company, Cleveland, Ohio. Display-fixture. No. 1,371,464; Mar. 15; v. 284; p. 435.
- Bennett, Charles W. (See Saunders, C. L., Stanley, and Bennett.)
- Bennett, Clarence H., Jamesburg, N. J. Gax-mixer. No. 1,379,437; May 24; v. 286; p. 765.
- Bennett, Clarence W., New York, N. Y. Velocipede. No. 1,373,707; Apr. 5; v. 285; p. 63.
- Bennett, Clark H., Chicago, Ill., J. F. Palmer, St. Joseph, Mich., and F. V. Wedlock, Chicago, assignor to Bentex Company, Chicago, Ill. Heat-insulating material and making same. No. 1,371,016; Mar. 8; v. 284; p. 285.
- Bennett, Conrad R., Worcester, Mass. Scale and grain-sampler. No. 1,396,916; Nov. 15.
- Bennett, Cyrus E., Buffalo, N. Y. Garment-pocket. No. 1,387,342; Aug. 9; v. 289; p. 346.
- Bennett, Edward C. (See Adams, E. E., and Bennett.)
- Bennett, Edward D., Pulaski, N. Y. Apparatus for cleansing felts. No. 1,395,219; Oct. 25.
- Bennett, Edward O., Berkeley, Calif., assignor of fifty per cent. to H. Ruhl, Chicago, Ill. Keylock. No. 1,382,164; June 21; v. 287; p. 459.
- Bennett, G. R., et al. (See Taft, John A., assignor.)
- Bennett, George, Sr., assignor to American Instrument Company, Philadelphia, Pa. Hemoglobinometer. No. 1,390,422; Sept. 13; v. 290; p. 264.
- Bennett, George H., Kansas City, Mo. Film-cleaning device. No. 1,390,076; Sept. 6; v. 290; p. 105.
- Bennett, George R., Glen Osborne, Pa. Cotton picking and cleaning. No. 1,398,930; Nov. 29.
- Bennett, George R., assignor to A. M. Hanauer, Pittsburgh, Pa. Loading-machine. No. 1,383,593; July 5; v. 288; p. 69.
- Bennett, George R., Glen Osborne, assignor to A. M. Hanauer, Pittsburgh, Pa. Loading-machine. No. 1,383,594; July 5; v. 288; p. 69.
- Bennett, Harry E. (See Wright, J. G., and Bennett.)
- Bennett, Harry J., assignor of one-third to S. J. Michelson and one-third to I. J. Lipsohn, Phoenix, Ariz. Rotary plow. No. 1,377,549; May 10; v. 286; p. 279.
- Bennett, Harry M. (See Cantrall, Forrest L., assignor.)
- Bennett Injector Company. (See Wood, A. J., assignor.)
- Bennett, J. M., et al. (See Taft, John A., assignor.)
- Bennett, Joseph P., Duluth, Minn. Impregnating match-splints. No. 1,372,860; Mar. 29; v. 284; p. 802.
- Bennett, Oscar L., assignor of one-half to A. L. Atwood, Birmingham, Ala. Penholder. No. 1,398,535; Nov. 29.
- Bennett, Oscar W., Colby, Kans. Stackers. No. 1,399,242; Dec. 6.
- Bennett, Ray H., et al. (See MacDougall, Archibald J., assignor.)
- Bennett, Richard E. (See Mooney, J. J., and Bennett.)
- Bennett, Robert H., Washington, D. C. Illumination-light. No. 1,389,180; Aug. 30; v. 289; p. 873.
- Bennett, Stevens A., assignor to Wilson & Bennett Manufacturing Company, Chicago, Ill. Machine for fastening can-covers. No. 1,385,422; July 26; v. 288; p. 653.
- Bennett, William G., Adrian, Wash. Spark-intensifier for gasoline-engines. No. 1,368,686; Feb. 15; v. 283; p. 458.
- Bennett, William H. (See Ferguson, J., and Bennett.)
- Bennetts, Benjamin H., Tacoma, Wash. Filtering and decanting apparatus. No. 1,368,687; Feb. 15; v. 283; p. 458.
- Bennington, Earl T., Colonial Heights, Ohio. Overhead-carrier system. No. 1,379,614; May 31; v. 286; p. 873.
- Bennington, Russell L., Lake City, Iowa. Releasing device for poultry-house doors. No. 1,398,829; Nov. 29.
- Bennington, Willard R., Xenia, Ohio. Fuse-plug. No. 1,380,461; June 7; v. 287; p. 26.
- Bennis, Thomas H., Brooklyn, N. Y. Closure device. No. 1,372,115; Mar. 22; v. 284; p. 616.
- Bensel, Fritz H. (See Szarvassy, I., and Bensel.)
- Bensinger, Norman E., Chicago, Ill. Cue-tip. No. 1,390,331; Sept. 13; v. 290; p. 246.
- Benson, Arthur J., Malden, Mass. Nut-lock. No. 1,387,096; Aug. 9; v. 289; p. 298.
- Benson, Ary A., and H. Barnes, assignors to Auto Radio Meter Company, Seattle, Wash. Temperature-indicator for radiators. No. 1,398,218; Nov. 22.
- Benson, Bradley L., San Francisco, Calif. Tile-sorting machine. No. 1,369,377; Feb. 22; v. 283; p. 630.
- Benson, Bradley L., San Francisco, Calif. Method and apparatus for spacing tiles and pasting same to paper. No. 1,379,160; May 24; v. 286; p. 712.
- Benson, David, and G. K. Bruce, Des Moines, Iowa. Ventilated automobile-driver's seat. No. 1,400,717; Dec. 20.
- Benson, Edward R., Minneapolis, Minn., and M. S. Crandall, Sioux City, Iowa. Vehicle-dump. No. 1,387,036; Aug. 9; v. 289; p. 285.
- Benson Electric Company. (See Silvernale, William N., assignor.)
- Benson, Emil, West Hartford, assignor to The Carling Tool & Machine Company, Hartford, Conn. Work-support. No. 1,395,664; Nov. 1.
- Benson, Harry, Alameda, Calif. Sliding-door lock. No. 1,381,271; June 14; v. 287; p. 233.
- Benson, Jacob, Bristol, Conn. Key-cabinet. No. 1,389,181; Aug. 30; v. 289; p. 873.
- Benson, Jean L., Chicago, Ill. Cloth-protecting device. No. 1,386,755; Aug. 9; v. 289; p. 228.
- Benson, Lawrence, Nashua, Mont. Automobile-radiator. No. 1,366,900; Feb. 1; v. 283; p. 4.
- Benson, Madison H., Austin, Tex. Power-transmitting means. No. 1,379,846; May 31; v. 286; p. 916.
- Benson, Matthew P., Troy, and M. M. Wiener, New York, N. Y. Strap attachment for brushes. No. 1,386,756; Aug. 9; v. 289; p. 229.
- Benson, Melvin B., Superior, Wis. Propelling and braking means for traveling cranes and carriages. No. 1,366,352; Jan. 25; v. 282; p. 573.
- Benson, Melvin B., Superior, Wis. Telemotor. No. 1,374,179; Apr. 12; v. 285; p. 196.
- Benson, Melvin B., Superior, Wis. Telemotor. No. 1,374,180; Apr. 12; v. 285; p. 196.
- Benson, Mirza H., and C. A. Carpenter, Des Moines, Iowa. Pavement. No. 1,369,161; Feb. 22; v. 283; p. 589.
- Benson, Ralph W. (See Lacerda, Harry A., assignor.)
- Benson, Robert S., Middleton St. George, England. Propulsion-screen. No. 1,398,997; Dec. 6.
- Benster, Solomon S., Toledo, Ohio. Repeating attachment for phonographs. No. 1,368,384; Feb. 15; v. 283; p. 399.
- Bentex Company. (See Bennett, C. H., Palmer, and Wedlock, assignors.)
- Bentley, Alfred D., assignor of one-half to United Enterprises Limited, Toronto, Ontario, Canada. Aileron-hinge. No. 1,394,464; Oct. 18.
- Bentley, Anson J., Niles, Ohio. Reinforcing-band for metal containers. No. 1,385,602; July 26; v. 288; p. 691.
- Bentley, Anson J., Niles, Ohio. Freezing-can. No. 1,399,287; Dec. 6.
- Bentley, Edward M., Lawrence, N. Y. Rheostat. No. 1,364,687; Jan. 4; v. 282; p. 133.
- Bentley, Edward M., Lawrence, N. Y. Rheostat. No. 1,364,688; Jan. 4; v. 282; p. 123.
- Bentley, Edward M., Lawrence, N. Y. Rheostat. No. 1,371,192; Mar. 8; v. 284; p. 318.
- Bentley, Fred, Detroit, Mich. Spring-wheel. No. 1,379,517; May 24; v. 286; p. 780.
- Bentley, George A., Marathon, Iowa. Seed-potato-cutting machine. No. 1,383,970; July 5; v. 288; p. 147.
- Bentley, George H., and E. G. Appleby, Westminster, London, England. Apparatus for agitating the fuel in gas-generators. No. 1,391,236; Sept. 20; v. 290; p. 492.



*Alphabetical list of patentees—Continued.*

- Bentley, John. (See Scott, W. H., and Bentley.)  
 Bentley, John B., Jamestown, N. Y. Bobbin-shuttle. No. 1,392,942; Sept. 27; v. 290; p. 729.  
 Bentley, Mantion T., Cleveland, Ohio. Metallic container. No. 1,367,683; Feb. 8; v. 283; p. 216.  
 Bentley, Mantion T., Cleveland, Ohio. Metal container. No. 1,369,091; Feb. 22; v. 283; p. 558.  
 Bentley, Walter O., London, England. Brake-operating mechanism. No. 1,368,879; Feb. 15; v. 283; p. 495.  
 Benton, Columbus A., Houston, Tex. Safety-razor. No. 1,383,516; July 5; v. 288; p. 53.  
 Benton, Dudley C., San Diego, Calif. Hook and eye. No. 1,380,519; June 7; v. 287; p. 37.  
 Benton, Edward L., Los Angeles, Calif. Wall structure and structural blocks for making same. No. 1,377,550; May 10; v. 286; p. 280.  
 Benton, James, East Palestine, Ohio. Die and process for making cup handles. No. 1,394,465; Oct. 18.  
 Benton, James R., Oswego, N. Y. Tool. No. 1,383,064; June 28; v. 287; p. 684.  
 Benton, Orlando F., Mendon, Ohio. Fish-pond. No. 1,393,339; Oct. 11.  
 Benton, William E., San Francisco, Calif. Toy doll. No. 1,387,097; Aug. 9; v. 289; p. 298.  
 Bentson, Haas J., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Back-filler. No. 1,380,944; June 7; v. 287; p. 119.  
 Bentz, Bessie M., et al. (See Bentz, John A., assignor.)  
 Bentz, George. (See Bentz, John J., assignor.)  
 Bentz, John A., assignor of one-half to W. S. Schell and one-half to B. M. Bentz, Harrisburg, Pa. Lug. No. 1,369,955; Mar. 1; v. 284; p. 38.  
 Bentz, John A., assignor of one-half to W. S. Schell and one-half to B. M. Bentz, Harrisburg, Pa. Traction device for wheels. No. 1,369,956; Mar. 1; v. 284; p. 38.  
 Bentz, John A., assignor of one-half to W. S. Schell and one-half to B. M. Bentz, Harrisburg, Pa. Traction lug. No. 1,400,514; Dec. 20.  
 Bentz, John J., assignor to G. Bentz, New York, N. Y. Nut-lock. No. 1,369,002; Feb. 22; v. 283; p. 558.  
 Benyei, John, Cleveland, Ohio. Curtain-rod and shade-roller support. No. 1,373,401; Apr. 5; v. 285; p. 4.  
 Benz, Adolph, Jr., Peoria, Ill. Treating dough. No. 1,369,724; Feb. 22; v. 283; p. 698.  
 Benz, Max, South Chicago, Ill. Vehicle-wheel. No. 1,375,203; Apr. 19; v. 285; p. 456.  
 Benzer Corporation, The. (See Benzer, Louis and H., assignors.)  
 Benzer, Henry. (See Benzer, Louis and H.)  
 Benzer, Henry and L., Brooklyn, N. Y. Side wind-deflector. No. 1,401,942; Dec. 27.  
 Benzer, Louis. (See Benzer, Henry and L.)  
 Benzer, Louis and H., assignors to The Benzer Corporation, Brooklyn, N. Y. Lens for headlights. No. 1,374,900; Apr. 19; v. 285; p. 398.  
 Benziger, Rufus, and F. Gass, Jacksonville, Fla. Window-fastener or door-check. No. 1,366,689; Jan. 25; v. 282; p. 641.  
 Benzon, George H., Jr., Jenkintown, assignor to William Sellers & Company, Inc., Philadelphia, Pa. Planer. No. 1,380,699; June 7; v. 287; p. 71.  
 Bequette, Richard J., et al. (See Gilthorpe, Stanley C., assignor.)  
 Berberian, Louis, Portland, Oreg. Molder's slick. No. 1,369,378; Feb. 22; v. 283; p. 631.  
 Berckenhoff, Henke, Hilversum, Netherlands. Cylindrical or sleeve valve. No. 1,377,798; May 10; v. 286; p. 328.  
 Bercofici, Maurice, Botosani, Roumania. Combined match and toothpick. No. 1,382,459; June 21; v. 287; p. 516.  
 Berdon, Albert E., assignor to Remy Electric Company, Anderson, Ind. Ignition-controller. No. 1,388,628; Aug. 23; v. 289; p. 709.  
 Berdon, Albert E., assignor to Dodge Brothers, Detroit, Mich. Oil-pan heater. No. 1,391,040; Sept. 20; v. 290; p. 452.  
 Berecky, William, and G. Munteanu, New York, N. Y. Soft-collar holder. No. 1,374,485; Apr. 12; v. 285; p. 255.  
 Berels, Joseph A., and R. T. Crist, Detroit, Mich. Piston-ring. No. 1,399,811; Dec. 13.  
 Berenstein, Frank. (See Harris, Allan A., assignor.)  
 Beresford, Joseph W. (See Dunn, W. P. and Beresford.)  
 Berg, Albert G., Indianapolis, Ind. Colander. No. 1,375,812; Apr. 26; v. 285; p. 603.  
 Berg, Andrew P., St. Louis, Mo. Rubber tire setter. No. 1,391,100; Oct. 18.  
 Berg, Anton, Rolla, Mo. Railway-crossing signal. No. 1,392,104; Sept. 27; v. 290; p. 741.  
 Berg, Charles, et al. (See Dunham, Milbourne K., assignor.)  
 Berg, Charles, Brooklyn, N. Y. Paint and making the same. No. 1,396,986; Nov. 15.  
 Berg, Edward H., Minneapolis, Minn. Adjustable casters. No. 1,389,572; Sept. 6; v. 290; p. 3.  
 Berg, Edwin H., Eveleth, Minn. Weather-stripping. No. 1,406,204; Dec. 13.  
 Berg, Frederick A., Chicago, Ill. Flying-machine. No. 1,367,114; Feb. 1; v. 283; p. 46.  
 Berg, John P., and J. M. Gleason, said Gleason assignor of all his right to Great Western Commercial Body Company, Omaha, Neb. Body for dumping trucks. No. 1,395,028; Oct. 25.  
 Berg, Joseph, Little Rock, Ark. Lifting-jack. No. 1,396,314; Nov. 8.  
 Berg, Mons M., Duluth, Minn. Combination-tool. No. 1,364,829; Jan. 4; v. 282; p. 151.  
 Berg, Odvin A., Whitehall, Wis. Automatic wagon-brake. No. 1,385,772; July 26; v. 288; p. 725.  
 Berg, Olaf, et al. (See Koch, Georg, assignor.)  
 Berg, Olaf, et al. (See Koch, Georg, assignor.)  
 Berg, Oliver J., Oak Park, Ill. Seal for solid formaldehyde products. No. 1,371,724; Mar. 15; v. 284; p. 486.  
 Berg, Richard O., assignor to Michigan Steel Tube Products Company, Detroit, Mich. Guide for tube-making machines. No. 1,378,992; May 24; v. 286; p. 681.  
 Berg, Simon, assignor to Michigan Steel Tube Products Company, Detroit, Mich. Welding-tip. No. 1,390,423; Sept. 15; v. 290; p. 265.  
 Bergamini, Antonio, North Haven, Conn. Hammer. No. 1,387,582; Aug. 16; v. 289; p. 445.  
 Berge, Erik J., Bayati, Cuba. Grate. No. 1,378,086; May 17; v. 286; p. 436.  
 Berge, Joseph, Flint, Mich. Panel match-safe. No. 1,371,193; Mar. 8; v. 284; p. 318.  
 Bergen, George B., Chicago, Ill. Permutation locking-ring. No. 1,388,691; Aug. 23; v. 289; p. 721.  
 Bergen, Harry S. (See Emig, Walter R., assignor.)  
 Bergen, Harry S., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,378,087; May 17; v. 286; p. 436.  
 Bergen, John F., and J. Marcus, Brooklyn, N. Y. Binder attachment for sewing-machines. No. 1,397,853; Nov. 22.  
 Bergen, Joseph C., Davenport, Iowa. Automatic door-operating means. No. 1,388,400; Aug. 23; v. 289; p. 665.  
 Bergen, Martin H., assignor to National Biscuit Company, New York, N. Y. Wafer-baking apparatus. No. 1,374,419; Apr. 12; v. 285; p. 243.  
 Bergen Point Iron Works. (See Smith, Augustus, assignor.)  
 Berger, William V., assignor of one-half to A. C. Shute, Hillsboro, Oreg. Signaling device. No. 1,399,923; Dec. 13.  
 Berger, Adolf, Philadelphia, Pa. Broom. No. 1,375,813; Apr. 26; v. 285; p. 604.  
 Berger Brothers Company. (See Salmonsens, Neil, assignor.)  
 Berger, Frank W., Willow Lakes, S. D. Neck-yoke fastener. No. 1,393,487; Oct. 11.  
 Berger, Fred, assignor of one-half to E. L. McManus, Jr., New York, N. Y. Electric drive for vehicles. No. 1,397,353; Nov. 15.  
 Berger, Joseph, Spaulding, Nebr. Draft appliance for harrows. No. 1,379,518; May 24; v. 286; p. 781.  
 Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Shaping and seaming garments. No. 1,386,680; Aug. 9; v. 289; p. 213.  
 Berger, Joseph, Jr., assignor to Union Special Machine Company, Utica, N. Y. Thread-controlling mechanism for sewing-machines. No. 1,381,160; June 14; v. 287; p. 212.  
 Berger, Knute, assignor to Washington Iron Works, Seattle, Wash. Cableway-carriage. No. 1,383,782; July 5; v. 288; p. 109.  
 Berger, Knute, assignor to Washington Iron Works, Seattle, Wash. Slack-puller for cableways. No. 1,393,604; Oct. 11.  
 Berger Manufacturing Company, The. (See Lehman, Edward G., assignor.)  
 Berger Manufacturing Company, The. (See Mainerl, Daniel L., assignor.)  
 Berger, Matthew R., Philadelphia, Pa. Gutter-hanger circle. No. 1,368,539; Feb. 15; v. 283; p. 430.  
 Berger, Samuel, New York, N. Y. Motor mechanism for mechanical toys. No. 1,393,936; Oct. 18.  
 Berger, Samuel, Newark, N. J., assignor to Ferdinand Strauss Inc., New York, N. Y. Wheel-fastening means for mechanical toys. No. 1,367,228; Feb. 1; v. 283; p. 68.  
 Berger, Samuel M., Brooklyn, N. Y. Automobile-jack. No. 1,400,654; Dec. 20.  
 Berger, William, and C. Blaschke, Schulenburg, Tex. Shoemaker's tool. No. 1,401,665; Dec. 27.  
 Bergeron, Joseph D., Iberville, Quebec, Canada. Snow-plow. No. 1,389,118; Aug. 30; v. 289; p. 861.  
 Bergeron, Walter L., Boutte, La. Implement attachment for tractors. No. 1,369,606; Feb. 22; v. 283; p. 675.  
 Bergesen, John, Sr., assignor of one-half to J. Bergesen, Brooklyn, N. Y. Boiler-tube brush. No. 1,392,105; Sept. 27; v. 290; p. 741.  
 Bergesen, Junius. (See Bergesen, J., Sr., assignor.)  
 Bergesoler, Edward, et al. (See Hayda, Oscar, assignor.)  
 Bergfeld, J. A., et al. (See Cleveland, David P., assignor.)  
 Bergfeld, William, New York, N. Y. Removable cover for umbrellas. No. 1,392,106; Sept. 27; v. 290; p. 741.  
 Berggreen, Andrew P., St. Paul, Minn. Toy. No. 1,374,420; Apr. 12; v. 285; p. 243.  
 Berggren, John, Idaho Falls, Idaho. Wrench. No. 1,398,886; Nov. 20.  
 Berggren, Oscar W., Waltham, Mass. Tapping-block. No. 1,392,740; Oct. 4.  
 Berggren, Oscar W., Waltham, Mass. Can-opener. No. 1,400,406; Dec. 13.  
 Berghaus, John H., Jr., Louisville, Ky. Safety device for elevators. No. 1,384,378; July 12; v. 288; p. 281.



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- Bergheimer, Daniel P. (See Maedler, Richard W., assignor.)
- Bergier, Frank, Manhattan, Kans. Electrical tire-signaling device. No. 1,369,725; Feb. 22; v. 283; p. 699.
- Bergius, Friedrich, Essen-Ruhr, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Hydrogenating carbon compounds under high pressure and elevated temperature. No. 1,391,664; Sept. 27; v. 290; p. 652.
- Berglann, Christian J., Seattle, Wash. Stove. No. 1,371,407; Mar. 15; v. 284; p. 424.
- Berglof, Knut, Buffalo, N. Y. Micrometer-protractor. No. 1,382,460; June 21; v. 287; p. 517.
- Bergman, Axel G. (See Mönchen, J. and Bergman.)
- Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Illuminating-body. No. 1,381,445; June 14; v. 287; p. 265.
- Bergman, Axel G., assignor to Ordnance Engineering Corporation, New York, N. Y. Trench-mortar. No. 1,399,243; Dec. 6.
- Bergman, Frederick, assignor of one-third to A. B. Spach, Chicago, Ill. Blade-holder. No. 1,386,757; Aug. 9; v. 289; p. 229.
- Bergman, Frederick, assignor of one-third to A. B. Spach, Chicago, Ill. Sickle or knife. No. 1,390,753; Sept. 13; v. 290; p. 332.
- Bergman, Jerome E., Buffalo, N. Y. Wrench. No. 1,378,209; May 17; v. 286; p. 459.
- Bergman, Julius. (See Cole, D. and Bergman.)
- Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Driving system for automobiles. No. 1,387,514; May 17; v. 286; p. 517.
- Bergman, Theo. (See Sadler, Edward C., assignor.)
- Bergmann, Edvard G., Christiania, Norway. Pumping device for compasses. No. 1,384,885; July 19; v. 288; p. 467.
- Bergquist, Gust, Portland, Oreg. Clothes-drier. No. 1,400,789; Dec. 20.
- Bergren, John A., Lake Park, Minn. Gang-plow. No. 1,389,479; Aug. 30; v. 289; p. 932.
- Bergskaug, Karl, Brooklyn, N. Y. Packing tool. No. 1,393,605; Oct. 11.
- Bergstedt, Frans E., Racine, Wis. Vise. No. 1,379,382; May 24; v. 286; p. 755.
- Bergstrom-Brewster Motor Company. (See Bergstrom, Christian, assignor.)
- Bergstrom, Christian, assignor to The Bergstrom-Brewster Motor Company, Denver, Colo. Adjustable framing-joint. No. 1,364,473; Jan. 4; v. 282; p. 25.
- Berk, Louis, Alstown, Wash. Automatic car-braking mechanism. No. 1,386,488; Aug. 2; v. 289; p. 102.
- Berkeley, Laurence J., Milwaukee, Wis., assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,379,383; May 24; v. 286; p. 755.
- Berkeley, Laurence J., Milwaukee, Wis., assignor to The P. & M. Company, Chicago, Ill. Rail-anchor. No. 1,379,384; May 24; v. 286; p. 756.
- Berkeley Light Corporation. (See Wood, William G., assignor.)
- Berkemeyer, August, Bladen, Nebr. Self-feeder for husks, shredders, and cutters. No. 1,396,015; Nov. 8.
- Berkenkamp, Russell, *et al.* (See Briggs, John, assignor.)
- Berkman, Herbert A., Chicago, Ill. Carbureter-adjuster. No. 1,368,474; Feb. 15; v. 283; p. 417.
- Berkman, William, Cleveland, Ohio. Leveling instrument. No. 1,369,957; Mar. 1; v. 284; p. 39.
- Berkovi, Leopold, assignor to La Reine Hair Waver and Curler Company Limited, London, England. Hair waver and curler. No. 1,392,812; Oct. 4.
- Berkovitz, Nathan, *et al.* (See Weisberg, Aaron, assignor.)
- Berkowitz, Isidor, New York, N. Y. Feed-table for printing-presses. No. 1,395,897; Nov. 1.
- Berkwits, Max, New York, N. Y. Coat. No. 1,371,841; Mar. 15; v. 284; p. 508.
- Berlin, George C. (See Schree, C. H., and Berlin.)
- Berlin Mills Company. (See Moore, Hugh K., assignor.)
- Berlin, Solomon, Philadelphia, Pa. Necktie-holder. No. 1,373,941; Apr. 5; v. 285; p. 110.
- Berman, Frank, Oregon, Wis. Attachment for hospital-beds. No. 1,389,480; Aug. 30; v. 289; p. 933.
- Bernard, A. M., Wagon Works. (See Bernard, Willy J., assignor.)
- Bernard, Charles, Gary, Ind. Wrench. No. 1,367,730; Feb. 8; v. 283; p. 225.
- Bernard, Pierre B., *et al.* (See Miot, Hubert F. H. G., assignor.)
- Bernard, Pierre J. H., Montreal, Quebec, Canada. Radiator. No. 1,371,725; Mar. 15; v. 284; p. 486.
- Bernard, Pierre J. H., Montreal, Quebec, Canada. Radiator. No. 1,393,740; Oct. 18.
- Bernard, Thels F., assignor to F. M. Ehehalt, Detroit, Mich. Mechanical device for grinding two cylindrical machine parts at the same time. No. 1,367,522; Feb. 1; v. 283; p. 127.
- Bernard, Thels F., assignor to F. M. Ehehalt, Detroit, Mich. Mechanical compound grinding head for grinding two cylindrical machine parts at the same time. No. 1,367,523; Feb. 1; v. 283; p. 127.
- Bernard, Thels F., assignor to F. M. Ehehalt, Detroit, Mich. Compound grinding-head for grinding two cylindrical machine parts at the same time. No. 1,395,790; Nov. 1.
- Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Hand-tool. No. 1,385,516; July 26; v. 288; p. 673.
- Bernard, Willy J., assignor to A. M. Bernard Wagon Works, New Iberia, La. Tractor-platform. No. 1,394,883; Oct. 25.
- Bernardin, Alfred L., and G. P. Pfirman, assignors to Bernardin Bottle Cap Co., Evansville, Ind. Making receptacle-closures. No. 1,370,182; Mar. 1; v. 284; p. 81.
- Bernardin Bottle Cap Co. (See Bernardin, A. L., and Pfirman, assignors.)
- Bernardini, Roland P., Cranston, R. I. Carbureter-lock. No. 1,380,346; June 7; v. 287; p. 4.
- Bernaudin, Maurice, New York, N. Y. Automatic trip-motion. No. 1,385,241; July 19; v. 288; p. 541.
- Bernay, Henri, assignor to The Thurston-Bernay Co., San Francisco, Calif. File-handle. No. 1,374,715; Apr. 12; v. 285; p. 299.
- Bernay, Henri, assignor, by mesne assignments, to F. W. Thurston, San Francisco, Calif. Drill. No. 1,375,997; Apr. 26; v. 285; p. 639.
- Bernay, Henri, assignor to F. W. Thurston, San Francisco, Calif. Drill. No. 1,384,297; July 12; v. 288; p. 264.
- Bernay, Henri, assignor, by mesne assignments, to F. W. Thurston, San Francisco, Calif. Drill. No. 1,388,792; Aug. 23; v. 289; p. 741.
- Berndt, Arthur W. (See Owers, E., Pearson, and Berndt.)
- Berneburg, Eduard, Leipzig, Germany. Typewriter. No. 1,393,194; Oct. 11.
- Berner, Jesse S., *et al.* (See Downey, Richard F., assignor.)
- Bernero, Floyd W., Memphis, Tenn. Belt-lacing applier. No. 1,378,759; May 17; v. 286; p. 564.
- Bernhard, Hieronymus, St. Louis, Mo., assignor to G. E. Gannett, University City, and A. B. Lewis, St. Louis, Mo. Binder construction. No. 1,384,507; July 12; v. 288; p. 398.
- Bernhard, John E., Birmingham, Ala. Fastener. No. 1,370,403; Mar. 1; v. 284; p. 122.
- Bernhard, Louis, Boston, Mass. Device for holding doors and the like. No. 1,381,696; June 14; v. 287; p. 313.
- Bernhard, Paul P., Alameda, Calif. Structural bolt. No. 1,373,045; Mar. 29; v. 284; p. 839.
- Bernhardt, Fred, *et al.* (See Connolly, Martin P., assignor.)
- Bernhart, Charles B. (See Kirby, J., Hopkins, and Bernhart.)
- Bernheim, Morris U., Cleveland, (now by judicial change of name Morris U. Burnham,) assignor to The Alvey-Ferguson Company, Oakley, Cincinnati, Ohio. Self-aligning bearing. No. 1,375,046; Mar. 29; v. 284; p. 839.
- Bernheim, Morris U., Cleveland, (now by judicial change of name Morris U. Burnham,) assignor to The Alvey-Ferguson Company, Oakley, Cincinnati, Ohio. Roller for gravity-conveyers, &c. No. 1,373,047; Mar. 29; v. 284; p. 839.
- Bernier, Anthime, Montreal, Quebec, Canada. Railway-tie. No. 1,381,962; June 21; v. 287; p. 423.
- Bernitz, Ernest, assignor to Bernitz Furnace Appliance Company, Boston, Mass. Furnace-wall. No. 1,393,606; Oct. 11.
- Bernitz Furnace Appliance Company. (See Bernitz, Ernest, assignor.)
- Bernotow, Dominik M., assignor, by mesne assignments, to Bunte Brothers, Chicago, Ill. Box-forming machine. No. 1,378,579; May 17; v. 286; p. 529.
- Bernotow, Dominik M., assignor, by mesne assignments, to Bunte Brothers, Chicago, Ill. Machine for setting up and folding cartons. No. 1,378,580; May 17; v. 286; p. 529.
- Bernotow, Dominik M., assignor, by mesne assignments, to Bunte Brothers, Chicago, Ill. Machine for lining cartons. No. 1,378,581; May 17; v. 286; p. 529.
- Bernsteen, A. E., *et al.* (See Shapiro, Herman, assignor.)
- Bernstein, Abraham, Cincinnati, Ohio. Mattress. No. 1,394,061; Oct. 18.
- Bernstein, Alex, Chicago, Ill. Neckband for shirts. No. 1,375,350; Apr. 19; v. 285; p. 484.
- Bernstein, Harris, New York, N. Y. Reinforcing-plate for automobile-bumpers. No. 1,397,354; Nov. 15.
- Bernstein, Rudolf, Halle-on-the-Saale, Germany. Agricultural machine. No. 1,399,045; Dec. 6.
- Bernstein, William, Jamaica Plain, assignor to Panther Rubber Manufacturing Company, Stoughton, Mass. Tread. No. 1,389,025; Aug. 30; v. 289; p. 843.
- Beron, Frank G., assignor to E. P. Guilfoile, Waterbury, Conn. Demountable rim. No. 1,378,397; May 17; v. 286; p. 494.
- Beronio, Fred, San Francisco, Calif., assignor to Levi Strauss & Co. Coveralls. No. 1,390,010; Sept. 6; v. 290; p. 91.
- Berres, Mathias, Hamtramck, Mich. Combined shoulder-brace and trousers-supporter. No. 1,377,387; May 10; v. 286; p. 249.
- Berridge, Russell W., Detroit, Mich. Manufacture of grape and other fruit juices. No. 1,393,422; Oct. 11.
- Berruet, Henri J., Levallois-Perret, assignor to Société Industrielle pour l'emploi des Pétroles lampants dans tous Moteurs à explosion, Paris, France. Heating apparatus for internal-combustion motors. No. 1,373,290; Mar. 29; v. 284; p. 888.



- Berry, Alfred L., Lincoln, Nebr. Collapsible luggage-holder. No. 1,378,210; May 17; v. 286; p. 459.
- Berry, Anne C., Richmond Hill, N. Y. Child's and lady's garment. No. 1,369,761; Feb. 22; v. 283; p. 706.
- Berry, Anne C., New York, N. Y. Garment. No. 1,382,461; June 21; v. 287; p. 517.
- Berry, Arthur F., London, England, assignor to General Electric Company. Electric heating device. No. 1,378,515; May 17; v. 286; p. 517.
- Berry, Bert C., assignor to two-fifths to F. E. King and E. G. Pescod, Calgary, Alberta, Canada. Sheaf-loader. No. 1,372,395; Mar. 22; v. 284; p. 671.
- Berry, Charles H., Detroit, Mich. Compensating gage. No. 1,376,505; May 3; v. 286; p. 24.
- Berry, Charles W., assignor to Laclede-Christy Clay Products Company, St. Louis, Mo. Refractory brick. No. 1,373,854; Apr. 5; v. 285; p. 92.
- Berry, Earl E., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Wheel-mounting. No. 1,380,462; June 7; v. 287; p. 26.
- Berry, Emory R., Davenport, Iowa. Assembling device. No. 1,386,585; Aug. 2; v. 289; p. 121.
- Berry, Frederick E., Hayes, England. Electrical transformer for regulating or varying the voltage of the current supplied therefrom. No. 1,396,551; Nov. 8.
- Berry, George A., Excelsior Springs, Mo. Price-ticket holder. No. 1,366,113; Jan. 18; v. 282; p. 483.
- Berry, George A., Excelsior Springs, Mo., assignor of one-third to W. J. Marsh, St. Louis, and one-third to B. C. Baynes, Excelsior Springs, Mo. Price-ticket holder. No. 1,392,622; Oct. 4.
- Berry, George S., *et al.* (See Bowman, Levi M., assignor.)
- Berry, George W., Kane, Pa. Tilting mechanism for dumping-bodies. No. 1,392,107; Sept. 27; v. 290; p. 742.
- Berry, George W., Kane, Pa. Hydraulic hoist for dumping-vehicles. No. 1,394,245; Oct. 18.
- Berry, Golden, Checotah, Okla. Air-draft motor. No. 1,380,036; May 31; v. 286; p. 952.
- Berry, Hiram H., New York, N. Y. Film-winding means for cameras. No. 1,394,401; Oct. 18.
- Berry, John S., Plainfield, N. J. Window structure. No. 1,391,287; Sept. 30; v. 290; p. 492.
- Berry, Joseph E., Carthage, Mo. Cloth-clamp. No. 1,392,552; Oct. 4.
- Berry, Robert C., assignor to E. C. Atkins & Company, Indianapolis, Ind. Band-saw lubricator. No. 1,379,885; May 24; v. 286; p. 750.
- Berry, Roy, Olney, Ill. Gasoline and oil dispensing apparatus. No. 1,366,862; Jan. 25; v. 282; p. 675.
- Berry, Roy, Olney, Ill. Soda-fountain liquid-dispensing apparatus. No. 1,370,082; Mar. 1; v. 284; p. 62.
- Berry, Thomas W. (See Houk, C. V., and Berry.)
- Berry, William G., London, England. Automatic multiple-spindle lathe. No. 1,396,807; Nov. 15.
- Berry, William H., Watsonville, Calif. Box-handler. No. 1,366,763; Jan. 25; v. 282; p. 656.
- Berryman, Harry H., Cicero, Ill. Heating system. No. 1,401,512; Dec. 27.
- Bersey, Alfred E., Dobwalls, Liskeard, England. Box or carrier for live birds. No. 1,387,759; Aug. 16; v. 289; p. 481.
- Bersted, Alfred and M., Chicago, Ill. Balance-weight cover-support for phonographs. No. 1,392,290; Oct. 4.
- Bersted, Martin. (See Bersted, Alfred and M.)
- Berta, Felix S., assignor to R. B. Hosner, San Francisco, Calif. Folding bed. No. 1,367,173; Feb. 1; v. 283; p. 58.
- Berthel, Charles J., Akron, Ohio. Vulcanizing-oven. No. 1,382,948; June 28; v. 287; p. 663.
- Berthelsen, Anders L., Chicago, Ill. Fabric-cutting device. No. 1,399,924; Dec. 13.
- Berthelsen, Anders L., assignor to Henry Morton, Chicago, Ill. Tractor-tread. No. 1,381,857; June 14; v. 287; p. 343.
- Berthier, André V. P. M., Neuilly-sur-Seine, France, assignor to United States Machine Gun Company, Boston, Mass. Firearm. No. 1,366,863; Jan. 25; v. 282; p. 676.
- Berthold, Edward E., *et al.* (See Corlett, Robert S., assignor.)
- Berthold, Edward E., Chicago, Ill. Automatic reversing mechanism. No. 1,366,690; Jan. 25; v. 282; p. 641.
- Berthold, Emily. (See Zahn, Joseph A., assignor.)
- Berthold, Gustave W., *et al.* (See Corlett, Robert S., assignor.)
- Berthon, Paul. (See Radisson, A., and Berthon.)
- Bertolini, Giuseppe. (See Merli, C., and Bertolini.)
- Bertram, Louis, Long Island City, assignor to Autosales Corporation, New York, N. Y. Coin-testing mechanism for coin-controlled machines. No. 1,387,681; Aug. 16; v. 289; p. 465.
- Bertrand, Frederic E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Thread-gripping device. No. 1,369,773; Mar. 1; v. 284; p. 4.
- Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-channeling machine. No. 1,383,448; July 5; v. 288; p. 40.
- Bertrand, John A., assignor to A. Reed, Los Angeles, and W. A. Koch, San Francisco, Calif. Reamer. No. 1,401,752; Dec. 27.
- Bertron, Ernest, Brussels, Belgium. Sign luminous by reflection. No. 1,400,855; Dec. 20.
- Berwick, George H., Hampstead, London, England. Carving-dish. No. 1,365,147; Jan. 11; v. 282; p. 256.
- Berzon & Brezin, *et al.* (See Phillips, Joseph, assignor.)
- Besch, Joseph, Albany, N. Y. Headlight-reflector. No. 1,381,161; June 14; v. 287; p. 213.
- Beskin, Samuel, Norfolk, Va. Combination display-case. No. 1,376,506; May 3; v. 286; p. 24.
- Besser, Herman, Alpena, Mich. Tire. No. 1,372,116; Mar. 22; v. 284; p. 616.
- Bessesen, Alfred N., Minneapolis, Minn. Syringe. No. 1,367,008; Feb. 1; v. 283; p. 25.
- Bessiers, Marie. (See Carley, William J., assignor.)
- Bessinger, Frank E., Wellington, Ohio. Piston-ring. No. 1,371,066; Mar. 8; v. 284; p. 204.
- Best, Alexander G., Vineland, N. C. Radius-rod connection. No. 1,397,157; Nov. 15.
- Best Brothers Keene's Cement Company, The. (See Hoskins, William, assignor.)
- Best, Clarence L., Oakland, assignor to The Holt Manufacturing Company, Stockton, Calif. Track-laying tractor. No. 1,395,029; Oct. 25.
- Best, Frank E. (See Harrison, W. D., and Best.)
- Best, Frank E., Seattle, Wash. Lock. No. 1,384,022; July 5; v. 288; p. 158.
- Best, Thomas, Detroit, Mich. Burial-case. No. 1,377,656; May 10; v. 286; p. 300.
- Best, William, Kansas City, Mo. Separator for storage batteries. No. 1,375,550; Apr. 19; v. 285; p. 522.
- Best, William J., Detroit, Mich. Stove. No. 1,366,901; Feb. 1; v. 283; p. 4.
- Best, William J., Cleveland, Ohio. Gas-stove. No. 1,379,957; May 31; v. 286; p. 937.
- Best, William N., Brooklyn, N. Y. Oxidation of finely-subdivided material. No. 1,397,791; Nov. 22.
- Best, William N., Brooklyn, N. Y. Apparatus for oxidation of finely-subdivided material. No. 1,397,792; Nov. 22.
- Best, William N., Brooklyn, assignor of one-fourth to G. B. Phelps, New York, N. Y.; one-fourth to S. A. Meisser, Quincy, Ill., and one-fourth to M. S. Spies, Creston, Iowa. Child's vehicle. No. 1,391,165; Sept. 20; v. 290; p. 477.
- Bestwall Manufacturing Company. (See Armstrong, Morgan K., assignor.)
- Betcher, Chester E., Minneapolis, Minn. Smoke and gas burning firebox. No. 1,373,478; Apr. 5; v. 285; p. 19.
- Betcher, Chester E., Minneapolis, Minn. Smoke and gas burning firebox. No. 1,373,479; Apr. 5; v. 285; p. 20.
- Betchkaw, James F., Berlin, Wis., assignor to The Frog Switch & Manufacturing Company, Carlisle, Pa. Rock-crusher. No. 1,396,016; Nov. 8.
- Beth, Wilhelm F. L., Lübeck, Germany. Shaking device for cleaning filters. No. 1,389,481; Aug. 30; v. 289; p. 933.
- Beth, Wilhelm F. L., Lübeck, Germany. Air or gas filter. No. 1,389,482; Aug. 30; v. 289; p. 933.
- Beth, Wilhelm F. L., Lübeck, Germany. Air-filter. No. 1,390,966; Sept. 13; v. 290; p. 375.
- Bethel, Harry L., Millville, assignor of one-third to J. R. Sharp and one-third to C. E. Woodruff, Bridgeton, N. J. Cushion-tire. No. 1,366,051; Jan. 18; v. 282; p. 471.
- Bethincourt, Albert, New York, N. Y. Combined comb and brush. No. 1,390,332; Sept. 13; v. 290; p. 247.
- Bethke, John P., Milwaukee, Wis. Autographic camera. No. 1,375,816; Apr. 26; v. 285; p. 604.
- Bethke, John P., assignor to Magnetic Manufacturing Company, Milwaukee, Wis. Magnetic separator. No. 1,369,516; Feb. 22; v. 283; p. 657.
- Bethke, John P., assignor of one-half to L. Schlesinger, Milwaukee, Wis. Sensitive-material-marking device. No. 1,374,875; Apr. 12; v. 285; p. 331.
- Bethke, John P., assignor of one-half to L. Schlesinger, Milwaukee, Wis. Making markings on sensitized material. No. 1,375,814; Apr. 26; v. 285; p. 604.
- Bethke, John P., assignor of one-half to L. Schlesinger, Milwaukee, Wis. Autographic camera. No. 1,375,815; Apr. 26; v. 285; p. 604.
- Bethke, John P., assignor to Magnetic Manufacturing Company, Milwaukee, Wis. Magnetic pulley. No. 1,384,177; July 12; v. 288; p. 240.
- Bethke, John P., and R. H. Stearns, assignors to Magnetic Manufacturing Co., Milwaukee, Wis. Magnetic pulley. No. 1,387,879; Aug. 16; v. 289; p. 505.
- Bethke, Leo, assignor to Chain Belt Company, Milwaukee, Wis. Cast link provided with antifriction-rollers and making same. No. 1,379,896; May 31; v. 286; p. 925.
- Bethlehem Foundry & Machine Co. (See Dimler, Ernest H., assignor.)
- Bethlehem Shipbuilding Corporation. (See Frear, Hugo P., assignor.)
- Bethlehem Shipbuilding Corporation. (See Ronald, Samuel D., assignor.)
- Bethlehem Shipbuilding Corporation. (See Sullivan, Giles V., assignor.)
- Bethlehem Steel Bridge Corporation. (See Hilpert, Meier G., assignor.)
- Bethlehem Steel Company. (See Carey, R. R., Lukens, and Mixsell, assignors.)
- Bethlehem Steel Company. (See Evans, Fred, assignor.)
- Bethlehem Steel Company. (See Fulda, Edward, assignor.)
- Bethlehem Steel Company. (See Lachman, Laurence S., assignor.)



*Alphabetical list of patentees—Continued.*

- Bethlehem Steel Company. (See Lachman, Maurice, assignor.)
- Bethlehem Steel Company. (See Lachman, Maurice, and L. S., assignors.)
- Bethlehem Steel Company. (See Lund, John, assignor.)
- Bethune, Charles W., Buffalo, N. Y. Suction-pump. No. 1,374,808; Apr. 12; v. 285; p. 317.
- Bether, Frederick, Cleveland, Ohio. Piston for explosion-engines. No. 1,373,291; Mar. 29; v. 284; p. 888.
- Bettegar, John B., Los Angeles, Calif. Folding-bed. No. 1,368,101; Feb. 8; v. 283; p. 295.
- Bettenburg, Nicholas C., (See Harman, G., Cannon, and Bettenburg.)
- Bettenga, Creno P., *et al.* (See Scheve, Frets C., assignor.)
- Bettenga, Creno P., Waterloo, Iowa. Animal-feeding device. No. 1,365,367; Jan. 11; v. 282; p. 299.
- Bettenga, Creno P., Parkersburg, Iowa. Animal-feeding device. No. 1,366,052; Jan. 18; v. 282; p. 472.
- Bettica, Alberto, Settimo Torinese, near Turin, Italy. Bomb for aeroplanes. No. 1,367,938; Feb. 8; v. 283; p. 264.
- Bettigole, Simon, New Haven, Conn. Broom. No. 1,356,652; Jan. 18; v. 282; p. 393.
- Bettini, Gianni, New York, N. Y. Portrait photography. No. 1,368,880; Feb. 15; v. 283; p. 495.
- Betts, Arthur L., and P. S. Shield, Cincinnati, Ohio, assignors to A. Davis, Jr., Covington, Ky. Bumper for tank-vehicles. No. 1,366,353; Jan. 25; v. 282; p. 573.
- Betts, Walter L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Vibration-proof vacuum-tube mounting. No. 1,364,860; Jan. 11; v. 282; p. 201.
- Betulander, Gotthilf A., Södertörns Villastad and N. G. Palmgren, Stockholm, Sweden, assignors to The Relay Automatic Telephone Company, Limited, Strand, London, England. Call-distributing arrangement for telephone plants. No. 1,375,351; Apr. 19; v. 285; p. 484.
- Betz, Samuel G., Lewiston, assignor to Standard Steel Works Company, Philadelphia, Pa. Tool-holder. No. 1,387,343; Aug. 9; v. 289; p. 346.
- Betz, William G., assignor to Straube Piano Company, Hammond, Ind. Piano-action. No. 1,389,290; Aug. 30; v. 289; p. 895.
- Beu, Frank, assignor of one-fourth to W. M. McEwan, Chicago, Ill. Oil-burner. No. 1,393,937; Oct. 18.
- Beuckmann, Frank, East St. Louis, Ill. Dish-scraper. No. 1,401,457; Dec. 27.
- Beudet, Maurice, (See Koetschet, J., and Beudet.)
- Beutel, Frederick C., *et al.* (See Ziegler, George J., assignor.)
- Beutler, Oswald H., South Bend, Ind. Piston. No. 1,371,217; Mar. 15; v. 284; p. 385.
- Byan, Robert P., Minneapolis, Minn. Pump-jack. No. 1,365,081; Jan. 11; v. 282; p. 243.
- Bevelle, Joseph C., and J. J. Smith, El Paso, Tex. Valve and valve-seat. No. 1,391,450; Sept. 20; v. 290; p. 535.
- Beverage, Harold H., Schenectady, N. Y., assignor to General Electric Company. Radioreceiving system. No. 1,381,089; June 7; v. 287; p. 147.
- Beverley, Joel H., *et al.* (See Mullins, John C., Jr., assignor.)
- Bevier, Raymond K., Spokane, Wash. Movable advertising device for aeroplanes, &c. No. 1,365,219; Jan. 11; v. 282; p. 270.
- Bevill, Claibourne, Bushnell, Fla. Fertilizer-distributor. No. 1,381,392; June 14; v. 287; p. 255.
- Bevill, Claibourne, Bushnell, Fla. Cultivator. No. 1,381,393; June 14; v. 287; p. 255.
- Bewlay, Henry, Mansfield, Ohio, assignor of one-half to The Ideal Electric & Mfg. Co. Secondary winding for induction-motors. No. 1,381,785; June 14; v. 287; p. 329.
- Bewley, Claude G., Spokane, Wash., assignor to Spokane Concrete Flower Pot Machine Co. Inc. Method and apparatus of forming concrete pots. No. 1,375,950; Apr. 26; v. 285; p. 631.
- Bexell, Carl V., *et al.* (See Boe, Edd, assignor.)
- Beyea, Albert G., (See Beyea, David H. and A. G.)
- Beyea, David H. and A. G., Union Springs, N. Y. Salt cake. No. 1,372,590; Mar. 22; v. 284; p. 708.
- Beyenberg, William C., Passaic, N. J. Waterproof composition. No. 1,390,424; Sept. 13; v. 290; p. 265.
- Beyer, Alois, (See Rendle, T. A., and Beyer.)
- Beyer, Frederick N., and J. H. Lounge, Chicago, Ill. Apparatus for treating liquids. No. 1,378,314; May 17; v. 286; p. 479.
- Beyer, Jacob J., McKees Rocks, Pa. Device for bending chain-links. No. 1,387,880; Aug. 16; v. 289; p. 505.
- Beyer, Walter E., Indianapolis, Ind. Gas-tank alarm. No. 1,376,386; Apr. 26; v. 285; p. 713.
- Boylk, Franklin G., Glendale, assignor of one-half to N. W. Schwartzlose, Los Angeles, Calif. Pectous material and making the same. No. 1,393,660; Oct. 11.
- Beynon, Arthur B., San Antonio, Tex. Demountable rim. No. 1,382,887; June 28; v. 287; p. 652.
- Bezold, John, Jersey City, N. J. Convertible chair. No. 1,377,868; May 10; v. 286; p. 341.
- Bezenberger, Fred K., and M. N. Rich, assignors to The Aluminum Castings Company, Cleveland, Ohio. Casting and treating castings and the like. No. 1,383,517; July 5; v. 288; p. 53.
- Bharucha, Dosabhoj E., Bombay, India. Auxillary shield for motor-vehicles. No. 1,383,282; July 5; v. 288; p. 4.
- Bhisey, Shanker A., New York, N. Y. Machine for casting and assembling typcs, leads, rules, &c. No. 1,364,235; Jan. 4; v. 282; p. 36.
- Biagi, Albert, and G. Casalis, Schenectady, N. Y. Three-wheeled self-propelled vehicle. No. 1,371,842; Mar. 15; v. 284; p. 508.
- Bianchi, Carlo E., Montpelier, Vt. Intermittent-motion mechanism. No. 1,396,002; Nov. 1.
- Biasotti, John, New York, N. Y. Machine for drying feathers. No. 1,374,809; Apr. 12; v. 285; p. 317.
- Bibard, René A., Bellevue, France. Special fastening for ends of laces. No. 1,397,918; Nov. 22.
- Bibb, Carlisle H., assignor of one-half to J. T. Bibb, Sr., Pasadena, Calif. Making aldehydes and other oxidation products. No. 1,392,886; Oct. 4.
- Bibb, John T., Sr., (See Bibb, Carlisle H., assignor.)
- Bibb, Martin L., (See Bibb, Thomas W. and M. L.)
- Bibb, Otis A., (See Culwell, V. S., and Bibb.)
- Bibb, Robert P., Van Buren, Ark. Resilient wheel. No. 1,395,085; Oct. 25.
- Bibb, Thomas W., Montesano, and M. L. Bibb, Olympia, Wash. Cream-separator. No. 1,369,607; Feb. 22; v. 283; p. 676.
- Bibbins, Royal E., New York, N. Y. Compass. No. 1,385,428; July 26; v. 288; p. 653.
- Bibby, James, London, England. Power-transmission coupling. No. 1,391,713; Sept. 27; v. 290; p. 662.
- Biber, Josef, Lorain, Ohio. Combined pistol and sword. No. 1,365,446; Jan. 11; v. 282; p. 314.
- Biber, Josef, Lorain, Ohio. Resilient vehicle-wheel. No. 1,365,447; Jan. 11; v. 282; p. 314.
- Bichean, Herbert, and W. S. Albrink, Toledo, Ohio. Paving-block. No. 1,364,286; Jan. 4; v. 282; p. 37.
- Bichek, Paul, Hudson, Wyo. Wreck-indicating buoy. No. 1,372,591; Mar. 22; v. 284; p. 708.
- Bickel, Clifford E., (See Murphey, F. P., and Bickel.)
- Bickel, Edward, Seattle, Wash. Knockdown chair. No. 1,391,362; Sept. 20; v. 290; p. 517.
- Bickel, Joseph W., Chicago Heights, Ill. Meter. No. 1,391,093; Sept. 20; v. 290; p. 463.
- Bickel, Walter W., and H. E. Brown, Des Moines, Iowa. Chimney-top. No. 1,390,269; Sept. 13; v. 290; p. 235.
- Bicker, Edgar B., St. Louis, Mo. Tenon-anchor. No. 1,399,183; Dec. 6.
- Bicker, Edgar B., assignor to Modern Package Co., St. Louis, Mo. Paper can. No. 1,368,102; Feb. 8; v. 283; p. 295.
- Bickley, Everett H., Philadelphia, Pa. Phonograph. No. 1,364,689; Jan. 4; v. 282; p. 124.
- Bickley, James C., (See Gray, E., and Bickley.)
- Bickley, Ross M., (See Robb, L. J., and Bickley.)
- Biddle, Frank E., Elkhart, Ind. Filing-machine. No. 1,395,381; Nov. 1.
- Biddle, George L., Belmar, assignor of one-third to G. B. Sexton, Asbury Park, N. J. Window-refrigerator. No. 1,372,592; Mar. 22; v. 284; p. 708.
- Biddlecom, Roy W., and L. B. Girard, Los Angeles, Calif. Automobile-top converter. No. 1,377,388; May 10; v. 286; p. 249.
- Bidwell, Carlyle D., Milwaukee, Wis., assignor, by mesne assignments, to International Harvester Company. Pre-heater for furnaces. No. 1,382,757; June 28; v. 287; p. 627.
- Bidwell, John W., Houston, Minn. Cultivator. No. 1,368,385; Feb. 15; v. 283; p. 399.
- Bidwell, William T., Atlanta, Ga. Heating generating plant. No. 1,391,451; Sept. 20; v. 290; p. 536.
- Biger, Louis E., Absarokee, Mont. End-gate. No. 1,384,228; July 12; v. 288; p. 250.
- Biek, William G., (See Magin, M. J., and Biek.)
- Bielouss, Elias, (See Gardner, H. A., and Bielouss.)
- Bielouss, Elias, assignor to H. A. Gardner, Washington, D. C. Preparation of drying oils. No. 1,384,423; July 12; v. 288; p. 291.
- Bienhoff, Benjamin B., (See Adsit, F., and Bienhoff.)
- Bierer, Ralph W., Binghamton, N. Y. Box for the toe portions of boots and shoes. No. 1,373,855; Apr. 5; v. 285; p. 92.
- Biernatzki, Albert C., Aurora, Ill. Sheet-flooring and producing same. No. 1,382,595; June 21; v. 287; p. 543.
- Blesmeyer, Lorenz F., and O. Stocksick, Chamois, Mo. Resilient-tire-casing filler. No. 1,388,843; Aug. 30; v. 289; p. 805.
- Biette, Henry C., Pittsburgh, assignor of one-half to J. A. Pierce and one-sixth to J. Jamison, McKeesport, Pa. Cooking utensil. No. 1,383,971; July 5; v. 288; p. 147.
- Biette, Henry C., Pittsburgh, assignor of two-thirds to J. A. Pierce, McKeesport, Pa. Cooking utensil. No. 1,383,972; July 5; v. 288; p. 148.
- Bifex Products Company, (See Evelyn, Harry C., assignor.)
- Bifex Products Company. (See Pancoast, W. G., and Grotenhuis, assignors.)
- Bigand, Victor, Buenos Aires, Argentina. Grain-drying apparatus. No. 1,364,477; Jan. 4; v. 282; p. 84.
- Bigelow, Frank M., Jeannette, Pa. Molding-flask. No. 1,390,754; Sept. 13; v. 290; p. 332.
- Bigelow, Harry M., Milwaukee, Wis. Sugar dispensing and weighing container. No. 1,400,790; Dec. 20.



*Alphabetical list of patentees—Continued.*

- Bigelow, Harry M., Milwaukee, Wis. Ouija-board. No. 1,400,791; Dec. 20.
- Bigelow, Robert J., Santa Anna, Tex. Well-liner clamp. No. 1,380,182; May 31; v. 286; p. 980.
- Biggar, Lefroy A., and R. H. Oneida, N. Y. Automobile-signal. No. 1,400,136; Dec. 13.
- Biggar, Rutherford H. (See Biggar, Lefroy A. and R. H.)
- Biggerstaff, Charles C., Rowesville, S. C. Seed-cotton cleaner. No. 1,395,382; Nov. 1.
- Biggert, Florence C., Jr., Pittsburgh, Pa. Wall-crane. No. 1,383,965; June 28; v. 287; p. 686.
- Biggs, Charles A., Regina, Saskatchewan, Canada. Apple-feeding device. No. 1,388,916; Aug. 30; v. 289; p. 820.
- Biggs, Edward, assignor to Wood and Selick, Inc., New York, N. Y. Multiple bake-pan. No. 1,395,050; Oct. 25.
- Biggs, Joseph F., Richmond, Va. Combination record rack and ejector for cabinets. No. 1,396,156; Nov. 8.
- Biggs, Robert H., St. Catharines, Ontario, Canada. Advertising device for paper-tape-magazine holders. No. 1,377,189; May 10; v. 286; p. 208.
- Biggs, Robert H., St. Catharines, Ontario, Canada. Advertising device for paper-tape-magazine holders. No. 1,377,181; May 10; v. 286; p. 208.
- Biggs, Theodore J. (See Baker, F. E., and Biggs.)
- Bignan, Jacques, Puteaux, France. Lubricating system. No. 1,398,170; Nov. 22.
- Bihun, George P., and A. Jones, Philadelphia, Pa. Apparatus for elevating liquids. No. 1,373,220; Mar. 29; v. 284; p. 874.
- Bijur, Joseph, New York, N. Y., assignor to Bijur Motor Appliance Company, Hoboken, N. J. Electrical apparatus for motor-vehicles. No. 1,375,998; Apr. 29; v. 285; p. 639.
- Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Dynamo-construction for motor-vehicles. No. 1,390,077; Sept. 6; v. 290; p. 105.
- Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.)
- Bijur Motor Appliance Company. (See Marcus, Charles, assignor.)
- Bijur Motor Appliance Company. (See Wolfsohn, Lionel M., now by judicial change of name Lionel M. Woodson, assignor.)
- Bilger, George M., Tyrone, Pa. Display-box. No. 1,383,375; July 5; v. 288; p. 25.
- Bilger, George R. (See McCurry, E. M., and Bilger.)
- Bilger, Harry B., Monmouth, Ill. Collapsible form for concrete constructions. No. 1,373,548; Apr. 5; v. 285; p. 33.
- Bilharz, Oscar M., et al. (See Allington, John L., assignor.)
- Bill, Fred R. (See Bridgen, Burt A., assignor.)
- Bill, Jean, Legano, Italy. Electrically-heated stamping-machine. No. 1,392,553; Oct. 4.
- Billet, Lena. (See Faber, Philip, assignor.)
- Billingham, Milton C. J., Kalamazoo, Mich. Paper-stock-treating machine. No. 1,384,987; July 19; v. 288; p. 489.
- Billingham, Milton C. J., Kalamazoo, Mich. Paper-stock-treating machine. No. 1,399,184; Dec. 6.
- Billings, Cecil M., Brooklyn, assignor to Delmore Manufacturing Co., Inc., New York, N. Y. Vehicle-axle support. No. 1,393,004; Oct. 11.
- Billings, Cecil M., Brooklyn, assignor to Delmore Manufacturing Co., Inc., New York, N. Y. Motor parcel-vehicle. No. 1,393,005; Oct. 11.
- Billings, Frank, and R. P. Greenleaf; said Greenleaf assignor to said Billings, Cleveland, Ohio. Loading-machine. No. 1,377,303; May 10; v. 286; p. 233.
- Billings, Fred W., Millwood, Wash. Auxiliary protector. No. 1,391,665; Sept. 27; v. 290; p. 652.
- Billings, Ivin I., Marial, Oreg. Miner's carbid lamp. No. 1,401,129; Dec. 27.
- Billings, Joseph, Brooklyn, N. Y. Automobile-plate and holder. No. 1,379,438; May 24; v. 286; p. 765.
- Billings, Nelson O., Eugene, Oreg. Latch. No. 1,371,341; Mar. 15; v. 284; p. 410.
- Billings & Spencer Company, The. (See Bayer, Louis G., assignor.)
- Billings, Vina, Detroit, Mich. Invalid-handling apparatus. No. 1,385,424; July 26; v. 288; p. 654.
- Billingsley, Percy L., Orlando, Fla. Flexible operating mechanism. No. 1,395,626; Nov. 1.
- Billingsley, Percy L., assignor to Atlas Manufacturing Company, Orlando, Fla. Jack-gear. No. 1,376,507; May 3; v. 286; p. 24.
- Billingsley, Rennie E., San Antonio, Tex. Rubber razor. No. 1,383,783; July 5; v. 288; p. 100.
- Billingsley, Rennie E., San Antonio, Tex. Rotary plow-share. No. 1,389,483; Aug. 30; v. 289; p. 933.
- Billingsley, Rennie E., San Antonio, Tex. Rotary plow. No. 1,389,484; Aug. 30; v. 289; p. 933.
- Billington, Frank, Portland, Oreg. Water-reservoir for automobile-radiators. No. 1,401,513; Dec. 27.
- Billington, John E., Broadheath, assignor to Linotype and Machinery Limited, London, England. Typographical composing-machine. No. 1,373,942; Apr. 5; v. 285; p. 110.
- Billman, Henry E., assignor to Industrial Track Construction Company, St. Louis, Mo. Railway accessory. No. 1,389,617; Sept. 6; v. 290; p. 11.
- Billon, Frédéric. (See Schneider, J., Hurlimann, and Billon.)
- Billon, Frederic, Solothurn, Switzerland. Electrical ignition apparatus for internal-combustion engines. No. 1,386,251; Aug. 2; v. 289; p. 51.
- Billon, Frédéric, assignor to Firm Scintilla, Solothurn, Switzerland. Magneto-electric ignition-machine. No. 1,392,554; Oct. 4.
- Billon, Frederic, and J. Bohli, assignors to Firm "Scintilla," Solothurn, Switzerland. Horseshoe-magnet. No. 1,401,130; Dec. 27.
- Bills, Elmer S., Chicago, Ill., assignor to Harmony Spring Cushion Co. Spring-cushion construction. No. 1,382,462; June 21; v. 287; p. 517.
- Billstein, Aaron M., assignor to The Lord Baltimore Press, Baltimore, Md. Support for tapered display-boxes. No. 1,368,016; Feb. 8; v. 283; p. 279.
- Bilque, George A., Crafon, assignor of one-half to J. H. Gioninger, Pittsburgh, Pa. Building-brick and wall construction. No. 1,385,299; July 19; v. 288; p. 552.
- Bilteman, John A., Albion, Iowa. Expandable screw. No. 1,392,108; Sept. 27; v. 290; p. 742.
- Bilton Machine Tool Company, The. (See Hloagland, Frank O., assignor.)
- Bilyeu, William F. (See Fitts, J. L., and Bilyeu.)
- Binder, Gottlob, Palmyra, N. J. Rotary washing-machine. No. 1,389,182; Aug. 30; v. 289; p. 874.
- Binder, John, New York, assignor to International Cork Company, Brooklyn, N. Y. Machine for the manufacture of bottle-closures. No. 1,381,055; June 7; v. 287; p. 141.
- Binder, John, New York, assignor to International Cork Company, Brooklyn, N. Y. Machine for the manufacture of bottle-closures. No. 1,387,037; Aug. 9; v. 289; p. 285.
- Binder, Louis, Newark, N. J. Box. No. 1,385,068; July 19; v. 288; p. 506.
- Binder, Russell T., Newark, N. J. Steering-wheel lock. No. 1,390,953; Sept. 13; v. 290; p. 372.
- Binder, Russell T., Orange, assignor to Russell Sales Co., Essex county, N. J. Steering-wheel lock. No. 1,390,952; Sept. 13; v. 290; p. 372.
- Bindschedler, Emil, Philadelphia, Pa. Recovery of volatile solvents. No. 1,367,009; Feb. 1; v. 283; p. 25.
- Bindschedler, Emil, Philadelphia, Pa. Recovery of volatile solvents. No. 1,368,601; Feb. 15; v. 283; p. 441.
- Bindschedler, Emil, Philadelphia, Pa. The recovery of alcohol and ether from admixture with air. No. 1,376,069; Apr. 26; v. 285; p. 654.
- Bines, William H., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Treating rubber. No. 1,400,137; Dec. 13.
- Bingaman, Frank, Parkersburg, W. Va. Electrum attachment for pianos. No. 1,374,979; Apr. 19; v. 285; p. 412.
- Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer-cover construction. No. 1,400,515; Dec. 20.
- Bingham, George C., Maldon, England. Construction of frames or stands for roof-cutters, kibbling-mills, and like machines used for agricultural purposes. No. 1,366,053; Jan. 18; v. 282; p. 472.
- Bingham, George W., Jersey City, N. J., assignor to Wide-scope Camera Co. Moving-picture projector. No. 1,371,218; Mar. 15; v. 284; p. 386.
- Bingham, George W., Cleveland, Ohio, assignor to The International Moving Picture & Film Company, Nashville, Tenn. Perforating-machine. No. 1,389,618; Sept. 6; v. 290; p. 11.
- Bingham, George W., Cleveland, Ohio, assignor to The International Moving Picture & Film Company, Nashville, Tenn. Motion-picture apparatus. No. 1,392,475; Oct. 4.
- Bingham, Harvey N., Weyburn, Saskatchewan, Canada. Traction-drive. No. 1,375,273; Apr. 19; v. 285; p. 469.
- Bingham, Jeremiah, assignor to The Bock Bearing Company, Toledo, Ohio. Machine for clenching roller-bearing cages. No. 1,383,376; July 5; v. 288; p. 25.
- Bingham, Jeremiah, assignor to The Bock Bearing Company, Toledo, Ohio. Making cup and cone members for roller-bearings. No. 1,387,638; Aug. 16; v. 289; p. 457.
- Bingham, Jeremiah, assignor to The Bock Bearing Company, Toledo, Ohio. Roller-bearing cage. No. 1,387,829; Aug. 16; v. 289; p. 495.
- Bingham, Jeremiah, assignor to The Bock Bearing Company, Toledo, Ohio. Assembling roll-holding cages. No. 1,387,830; Aug. 16; v. 289; p. 495.
- Bingham, Jeremiah, assignor to The Bock Bearing Company, Toledo, Ohio. Machine for accurately aligning and closing roll-holding cages for roller-bearings. No. 1,387,881; Aug. 16; v. 289; p. 505.
- Bingham, Samuel H., Jr. (See Fraser, Edwin J., assignor.)
- Bingley, John W., Watertown, N. Y., assignor to The New York Air Brake Company. Engineer's brake-valve. No. 1,370,183; Mar. 1; v. 284; p. 81.
- Bingman, Carroll E., Washington, D. C. Device for removing foreign bodies from the eye. No. 1,386,309; Aug. 2; v. 289; p. 69.
- Binkley, John T., Chicago, Ill. Fastening device. No. 1,395,627; Nov. 1.
- Binkley, John T., Chicago, Ill., assignor to Henry Likley & Company, Rochester, N. Y. Locking mechanism. No. 1,370,941; Mar. 8; v. 284; p. 270.



*Alphabetical list of patentees—Continued.*

- Binkley, John T., Chicago, Ill., assignor to Henry Likley & Company, Rochester, N. Y. Locking mechanism. No. 1,370,942; Mar. 8; v. 284; p. 270.
- Binkowitz, Birdye. (See Lincecum, Lucullus G., assignor.)
- Binns, Arthur E., Mansfield, Mass. Shower pipe. No. 1,396,092; Nov. 8.
- Binns, Fred A., Addison, Mich. Supporting device for false teeth. No. 1,385,812; July 26; v. 288; p. 733.
- Binns, John B., Akron, assignor of one-fifth to S. J. Taylor, one-fifth to E. Wissinger, Cuyahoga Falls, one-fifth to F. Nolte, Akron, and one-fifth to Superior Rubber Mold & Equipment Company, Cuyahoga Falls, Ohio. Core for tire-casings. No. 1,400,258; Dec. 13.
- Bintliff, Wilbert T., assignor of one-half to A. B. Laing, Plainfield, N. J. Priming apparatus for internal-combustion engines. No. 1,369,608; Feb. 22; v. 283; p. 676.
- Biondo, Philip M., assignor of one-third to J. Messina and one-third to C. Ciravola, Brooklyn, N. Y. Crayon-holder. No. 1,377,182; May 10; v. 286; p. 209.
- Birch, Charles H., Chicago, Ill. Can-capping or disk-feeding machine. No. 1,387,461; Aug. 16; v. 289; p. 420.
- Birch, Sydney, Mansfield, Mass. Sheet-guiding mechanism. No. 1,396,157; Nov. 8.
- Birchall, Henry J., Birmingham, England. Grinding-machine for beveling the edges of eyeglass-lenses and other pieces. No. 1,365,448; Jan. 11; v. 282; p. 314.
- Birchfield, Robert W., Waukegan, Ill. Boiler. No. 1,393,741; Oct. 18.
- Bird, Charles S. (See Goldberg, Solomon H., assignor.)
- Bird, Charles S., East Walpole, Mass. Paper-making machine. No. 1,381,272; June 14; v. 287; p. 233.
- Bird, David B., Chicago, Ill. Fuller ball. No. 1,399,459; Dec. 6.
- Bird, Douglas, New York, N. Y. Amusement device. No. 1,371,194; Mar. 8; v. 284; p. 318.
- Bird, George R., Rockford, Ill. Tire-flap. No. 1,401,306; Dec. 27.
- Bird, Hanna M., administratrix. (See Bird, Thomas.)
- Bird, John. (See Lamb, Elden P., assignor.)
- Bird, Reginald W. (See Clapp, Albert L., assignor.)
- Bird & Son. (See Wyman, George R., assignor.)
- Bird, Thomas, Johnson City, Tenn. Flying-machine. No. 1,364,174; Jan. 4; v. 282; p. 25.
- Bird, Thomas, deceased, Cortland, N. Y.; H. M. Bird, administratrix. Fishing-line. No. 1,371,067; Mar. 8; v. 284; p. 295.
- Birdsall, Wilfred T., Montclair, N. J., assignor, by mesne assignments, to Westinghouse Lamp Company. Vacuum-type converter. No. 1,388,793; Aug. 23; v. 289; p. 741.
- Birdsey, Charles R., assignor to Avery Gypsum Company, Chicago, Ill. Molding gypsum blocks. No. 1,372,861; Mar. 29; v. 284; p. 802.
- Birdsey, Charles R., Hinsdale, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Plaster-board. No. 1,383,254; June 28; v. 287; p. 721.
- Birdsey, Charles R., Hinsdale, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Machine for making plaster-board. No. 1,383,255; June 28; v. 287; p. 721.
- Birdsey, Charles R., Hinsdale, assignor to United States Gypsum Company, Chicago, Ill. Plaster-board. No. 1,384,298; July 12; v. 288; p. 265.
- Birdsey, Charles R., Hinsdale, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Plaster-board. No. 1,395,031; Oct. 25.
- Birdsey, Charles R., Hinsdale, assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Plaster-board. No. 1,395,032; Oct. 25.
- Birdsey, Seeley P., assignor to Wilcox, Crittenden and Company, Inc., Middletown, Conn. Making grapnels. No. 1,380,766; June 7; v. 287; p. 84.
- Birkenbeuel, Edward B., Portland, Oreg. Can-cover lifter. No. 1,385,265; June 28; v. 287; p. 723.
- Birkenmaier, Theodore, St. Louis, Mo. Controlling mechanism for laundry-machines. No. 1,374,810; Apr. 12; v. 285; p. 318.
- Birkett, Ralph W., Sutton, England. Regenerative counter-propeller for marine vessels. No. 1,386,835; Aug. 9; v. 289; p. 245.
- Birkett, Thomas. (See Corry, James A., assignor.)
- Birkholm, Axel. (See Hall, R. G., and Birkholm.)
- Birkigt, Marc, Bois-Colombes, France. Motor mechanism. No. 1,386,489; Aug. 2; v. 289; p. 102.
- Birkigt, Marc, Bois-Colombes, France. Brake-drum, pulley or the like. No. 1,394,402; Oct. 18.
- Birkigt, Marc, Bois-Colombes, France. Explosion-engine. No. 1,401,862; Dec. 27.
- Birkland, Eric E., and G. O. Liljegren, Chicago, Ill.; said Birkland assignor to said Liljegren. Alarm-valve for automatic fire-extinguishing systems. No. 1,399,374; Dec. 6.
- Birmingham Iron Foundry. (See Banbury, Fernley H., assignor.)
- Birmingham Iron Foundry. (See Gordon, William A., assignor.)
- Birmingham Iron Foundry. (See Hansen, Svend, assignor.)
- Birmingham Machine & Foundry Company. (See Ericsson, Charles T., assignor.)
- Birnbaum, Charles. (See Eliasoff, A. L., and Birnbaum.)
- Bobbe, Arthur. (See Ross, Alfred D., assignor.)
- Birrell, James, assignor to Super Valve Co., Chicago, Ill. Uniting the heads and stems of valve members. No. 1,382,052; June 21; v. 287; p. 439.
- Birstler, Daniel, Westchester, N. Y. Dumping-wagon. No. 1,397,355; Nov. 15.
- Birth, Charles, Kingston, assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,386,758; Aug. 9; v. 289; p. 229.
- Bisaillon, Hector E. (See Mills, W. S., and Bisaillon.)
- Bisbing, Charles F. (See Weinberg, I. H., and Bisbing.)
- Biser, Charles E., Selma, Ala. Two-cycle upright gas-engine. No. 1,383,518; July 5; v. 288; p. 53.
- Bishard, Dudley H., Fort Scott, Kans. Motor-block-handling device. No. 1,365,220; Jan. 11; v. 282; p. 270.
- Bishman, Alfred L., Syracuse, N. Y. Litter-collector. No. 1,400,516; Dec. 20.
- Bishop-Babcock-Becker Company, The. (See Bonnet, Charles E., assignor.)
- Bishop, Minnie R., Chicago, Ill. Safety device for bath-tubs. No. 1,376,247; Apr. 26; v. 285; p. 687.
- Bishop, Charles B., assignor to Consolidated Dental Manufacturing Company, New York, N. Y. Handpiece for dental engines. No. 1,381,697; June 14; v. 287; p. 313.
- Bishop Company, The. (See Bishop, Frederick H., assignor.)
- Bishop, Fred M., assignor to American Optical Company, Southbridge, Mass. Adhesive for lenses. No. 1,386,046; Aug. 2; v. 289; p. 17.
- Bishop, Frederick H., North Attleboro, Mass., assignor to The Bishop Company. Ophthalmic mounting. No. 1,393,340; Oct. 11.
- Bishop, George H., Calgary, Alberta, Canada. Cattle-guard. No. 1,397,752; Nov. 22.
- Bishop, George W., Jr., Lynbrook, assignor of one-third to George dev. Gilmore, New York, N. Y. Mixer. No. 1,395,171; Oct. 25.
- Bishop, Homer G., Oakland, assignor to American Automatic Lock & Lift Company, San Francisco, Calif. Bed-mounting. No. 1,384,008; July 5; v. 288; p. 156.
- Bishop, Howard B. (See Mullen, George W., assignor.)
- Bishop, Howard B., Media, Pa. Making fluorids. No. 1,382,165; June 21; v. 287; p. 460.
- Bishop, James A., Chicago, Ill. Condenser. No. 1,395,898; Nov. 1.
- Bishop, James T. (See Vales, E. J., and Bishop.)
- Bishop, Joseph K. (See Hanable, Carl F., assignor.)
- Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collerden Company, Chicago, Ill. Cutting-machine. No. 1,378,935; May 24; v. 286; p. 671.
- Bishopsgate General Trading Company Limited. (See Phillips, John W., assignor.)
- Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Porch-light. No. 1,382,267; June 21; v. 287; p. 479.
- Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Cap for conduit outlet-boxes. No. 1,391,524; Sept. 20; v. 290; p. 551.
- Bissell Carpet Sweeper Company. (See Owen, I. J., and Bouwmeester, assignors.)
- Bissell Carpet Sweeper Company. (See Owen, Ira J., assignor.)
- Bissell, Nelson C., Modesto, Calif. Composition for waterproofing cloth. No. 1,391,934; Sept. 27; v. 290; p. 707.
- Bissell, Torrance E., Elora, Ontario, Canada. Disk harrow. No. 1,388,159; Aug. 23; v. 289; p. 615.
- Bissell, Torrance E., Elora, Ontario, Canada. Horizontal adjustable draft connection for disk harrows. No. 1,388,160; Aug. 23; v. 289; p. 615.
- Bissell, Wayne W., Rochester, Minn. Stump-puller. No. 1,399,244; Dec. 6.
- Bisset, David L., Montreal, Quebec, Canada. Chuck. No. 1,392,109; Sept. 27; v. 290; p. 742.
- Bitler, William H. (See Baer, T., and Bitler.)
- Bitoslag Paving Company. (See Draney, J. R., and Law, assignors.)
- Bitoslag Paving Company. (See Draney, Joseph R., assignor.)
- Bittel, Henry, San Francisco, Calif. Convertible chair-bed. No. 1,400,718; Dec. 20.
- Bittle, Harry, West Alexandria, assignor of one-half to I. C. Albert, Lewisburg, Ohio. Manure-loading fork. No. 1,390,870; Sept. 13; v. 290; p. 355.
- Bittner, Fred H., Bottineau, N. D. Adjustable reach. No. 1,393,661; Oct. 11.
- Bituconcrete Company of America. (See Henderson, George A., assignor.)
- Bituminized Road Company. (See Daniel, Allan P., assignor.)
- Bituminized Road Company. (See Popkess, Michael A., assignor.)
- Blvins, Chalfant E., Brooklyn, assignor to E. H. Wagner, New York, N. Y. Pyrotechnical device. No. 1,384,424; July 12; v. 288; p. 291.
- Bixler, John E., and J. A. Long, assignors to Penn Engineering Company, Reading, Pa. Vise-post. No. 1,390,189; Sept. 6; v. 290; p. 127.
- Bixler, William H. H., Philadelphia, Pa., assignor to de Sanno & Hoskins. Dental scaler. No. 1,397,395; Nov. 15.



- Bjorge, Arne K. H., St. Paul, Minn. Electric third rail. No. 1,388,088; Aug. 16; v. 289; p. 545.
- Bjorklund, Gustav. (See Schwarz, J. O., and Bjorklund.)
- Bjorkman, Axel E., Saugus, Mass. Thread-measuring apparatus. No. 1,377,959; May 10; v. 286; p. 359.
- Bjornberg, Swan O., Chicago, Ill. Method and machine for forming teeth in saws. No. 1,372,738; Mar. 29; v. 284; p. 777.
- Bjornlie, Julius, assignor to Bjornlie Manufacturing Company, Watertown, S. D. Lifting-jack. No. 1,364,175; Jan. 4; v. 282; p. 25.
- Bjornlie, Julius, assignor to Bjornlie Manufacturing Company, Watertown, S. D. Tire-tool. No. 1,372,796; Mar. 29; v. 284; p. 789.
- Bjornlie, Julius, assignor to Bjornlie Manufacturing Company, Watertown, S. D. Rim contractor and expander. No. 1,399,185; Dec. 6.
- Bjornlie Manufacturing Company. (See Bjornlie, Julius, assignor.)
- Bjornsen, John, Philadelphia, Pa. Cereal-dish. No. 1,379,519; May 24; v. 286; p. 781.
- Blache, Hans H., Hellerup, near Copenhagen, Denmark. Internal-combustion engine, which may be directly reversed. No. 1,399,723; Dec. 6.
- Blache, Hans H., near Copenhagen, Denmark. Regulating device for fuel-oil pumps. No. 1,401,033; Dec. 20.
- Black, Alonzo C., and J. D. Clark, Des Moines, Iowa. Locking-valve for fuel-tanks. No. 1,377,389; May 10; v. 286; p. 250.
- Black, Archibald, Brooklyn, assignor, by mesne assignments, to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y. Fuselage. No. 1,393,488; Oct. 11.
- Black, Archibald, Brooklyn, assignor, by mesne assignments, of one-half to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y. Aeroplane control system. No. 1,395,254; Nov. 1.
- Black Cat Textiles Company, *et al.* (See Cordin, E. A., and Stanley, assignors.)
- Black, Charles F., assignor to The Republic Tool Products Company, Dayton, Ohio. Wheeled toy. No. 1,395,470; Nov. 1.
- Black, David C., Alloa, Scotland, assignor to Parsons Marine Steam Turbine Company Limited, Wallsend-on-Tyne, England. Ship-propulsion installations. No. 1,374,486; Apr. 12; v. 285; p. 255.
- Black, David G. (See Hecht, H., and Black.)
- Black, Euston E., Alligator Pond, Jamaica, British West Indies. Pen-extractor. No. 1,383,377; July 5; v. 288; p. 25.
- Black, Frank B., Liscumb, Iowa. Automobile-headlight. No. 1,400,259; Dec. 13.
- Black, George A., Franklin, Pa. Internal-combustion engine. No. 1,390,486; Sept. 13; v. 290; p. 277.
- Black, George E. (See Rogers, James E., assignor.)
- Black, George H., Rochester, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Insole and making the same. No. 1,392,906; Oct. 11.
- Black, James D., Badin, N. C., assignor to Aluminum Company of America, Pittsburgh, Pa. Cell for ring-furnaces. No. 1,383,378; July 5; v. 288; p. 25.
- Black, John, Hulatt, British Columbia, Canada. Valve for internal-combustion engines. No. 1,382,053; June 21; v. 287; p. 439.
- Black, John Q., Nashville, Tenn. Truck for motor-driven vehicles. No. 1,375,892; Apr. 26; v. 285; p. 619.
- Black, John Q., Nashville, Tenn. Hitch structure. No. 1,393,812; Nov. 29.
- Black, Johnny S., New York, N. Y. Airplane landing and launching mechanism. No. 1,383,595; July 5; v. 288; p. 70.
- Black, Lee J., Beaumont, Tex. Hydraulic swivel. No. 1,372,266; Mar. 22; v. 284; p. 646.
- Black Products Co. (See Fairchild, Clifford J., assignor.)
- Black, Ralph, New York, N. Y. Spool-rack. No. 1,377,052; May 3; v. 286; p. 128.
- Black, Robert, and W. I. Francis, Evansville, Ind. Ball-bearing table for sawing-machines. No. 1,390,487; Sept. 13; v. 290; p. 277.
- Black, V. E., Company. (See Anderson, Maurice, assignor.)
- Black, Walter A., Rocky Ford, Colo. Tire-core. No. 1,378,315; May 17; v. 286; p. 479.
- Black, Walter A., Rocky Ford, Colo. Tire-core. No. 1,384,508; July 12; v. 288; p. 308.
- Black, Walter A., Perry, Iowa. Tire-core. No. 1,388,447; Aug. 23; v. 289; p. 675.
- Black, Walter G., Whittier, Calif. Oil-well machinery comprising the spring-ball elevator. No. 1,397,072; Nov. 15.
- Black, William Z., and D. W. Butz, Kokomo, Ind. Wheel. No. 1,390,871; Sept. 13; v. 290; p. 355.
- Blackall, Alfred C., *et al.* (See Garrard, William B., assignor.)
- Blackburn, Albert E., Laurel, Fla. Device for preventing rearward tilting of tractors. No. 1,372,396; Mar. 22; v. 284; p. 671.
- Blackburn, Alvah, Alum Bank, Pa. Antikicking device for cows. No. 1,383,901; July 5; v. 288; p. 133.
- Blackburn, Alvah, Alum Bank, Pa. Cow-tail holder. No. 1,383,902; July 5; v. 288; p. 133.
- Blackburn, Arthur H., Downers Grove, and F. E. Fleming, Chicago, assignors to The Underfeed Stoker Company of America, Chicago, Ill. Side-dump stoker. No. 1,364,237; Jan. 4; v. 282; p. 37.
- Blackburn, Arthur H., Downers Grove, and W. E. De Voe, Chicago Heights, assignors to The Underfeed Stoker Company of America, Chicago, Ill. Self-cleaning side-dump underfeed furnace. No. 1,372,267; Mar. 22; v. 284; p. 646.
- Blackburn, Clarence W., South Greensburg, Pa. Toy. No. 1,385,517; July 26; v. 288; p. 673.
- Blackburn, Edward S., Austin, Tex. Identifying-tag. No. 1,392,291; Oct. 4.
- Blackburn, Jasper, Webster Groves, Mo. Steering-wheel. No. 1,366,554; Jan. 25; v. 282; p. 615.
- Blackburn, Jasper, Webster Groves, assignor to The Blackburn Patent Steering Wheel Company, St. Louis, Mo. Steering-wheel. No. 1,366,552; Jan. 25; v. 282; p. 614.
- Blackburn, Jasper, assignor to The Blackburn Patent Steering Wheel Company, St. Louis, Mo. Electric attachment for motor-vehicles. No. 1,366,553; Jan. 25; v. 282; p. 614.
- Blackburn Patent Steering Wheel Company, The. (See Blackburn, Jasper, assignor.)
- Blackburn, Robert, Boston Spa, assignor to J. Reed, Corbridge-on-Tyne, England. Silencing device for internal-combustion engines, particularly applicable for use on aircraft. No. 1,373,221; Mar. 29; v. 284; p. 874.
- Blackburn, William A., Detroit, Mich. Work-rest. No. 1,401,131; Dec. 27.
- Blackburn, Wilmuth E., Summit, N. J. Indicating mechanism for game apparatus. No. 1,377,869; May 10; v. 286; p. 342.
- Blackburn, Wilmuth E., Summit, N. J. Game apparatus. No. 1,390,270; Sept. 13; v. 290; p. 235.
- Blackett, Olin W., Brookline, Mass. Headlight. No. 1,397,793; Nov. 22.
- Blackett, Victor S., Halifax, Nova Scotia, Canada. Photograph-film sealer. No. 1,372,593; Mar. 22; v. 284; p. 709.
- Blackinton, R., & Co. (See Cobb, Windsor, assignor.)
- Blackledge, John W., Chicago, Ill. Shock-absorber for vehicles. No. 1,377,613; May 10; v. 286; p. 291.
- Blackledge, John W., Chicago, Ill. Shock-absorber. No. 1,393,938; Oct. 18.
- Blackmon, Enoch J., Sherman, Tex. High-pressure suction fan and blower. No. 1,386,548; Aug. 2; v. 289; p. 114.
- Blackmon, Shelby C., *et al.* (See Howell, Henry M., assignor.)
- Blackmore, Charles C., Dayton, Ohio. Rotary fan. No. 1,370,083; Mar. 1; v. 284; p. 62.
- Blackmore, Charles C., Dayton, Ohio. Antirattling device for automobile-doors and the like. No. 1,384,506; July 12; v. 288; p. 308.
- Blackmore, Charles C., Dayton, Ohio. Shock-absorber. No. 1,395,471; Nov. 1.
- Blackmore, Henry S. (See Dudley, Walter J., assignor.)
- Blackmore, Henry S., Mount Vernon, N. Y. Polishing, cleaning, or finishing compound or composition. No. 1,369,878; Mar. 1; v. 284; p. 24.
- Blackmore, John E. L., Detroit, Mich., assignor to Gleason Works, Rochester, N. Y. Gear-cutting machine. No. 1,376,600; May 3; v. 286; p. 42.
- Blackmore, William A., Christchurch, New Zealand. Pulsator for milking-machines. No. 1,400,792; Dec. 20.
- Blackwell, Otto B., Garden City, N. Y., assignor to American Telephone and Telegraph Company. Means for and method of reducing cross-talk in four-wire circuits. No. 1,394,062; Oct. 18.
- Blackwell, William T., Verona, N. J., assignor to Westinghouse Lamp Company. Reflector. No. 1,381,103; June 14; v. 287; p. 202.
- Blades, Charles A. (See List, Franz, assignor.)
- Blaesser, Anthony J., assignor to Joslyn Mfg. & Supply Co., Chicago, Ill. Manufacturing guy-clamps. No. 1,388,692; Aug. 23; v. 289; p. 721.
- Blaetz, Harry M., Philadelphia, Pa., assignor to The Conley Foil Company, New York, N. Y. Printing-plate matrix and making same. No. 1,382,713; June 28; v. 287; p. 619.
- Blai, Martin, Chicago, Ill. Portable building. No. 1,384,039; July 12; v. 288; p. 211.
- Blain, John B., Rochester, N. Y. Grease-cup. No. 1,383,379; July 5; v. 288; p. 25.
- Blain, John B., Rochester, N. Y. Grease-cup. No. 1,390,078; Sept. 6; v. 290; p. 105.
- Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-guide adjustment. No. 1,367,229; Feb. 1; v. 283; p. 68.
- Blaine, Joseph R., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-register detector. No. 1,374,137; Apr. 5; v. 285; p. 147.
- Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Re-loading feeder. No. 1,388,161; Aug. 23; v. 289; p. 616.
- Blaine, Walter E., U. S. Army. Automatic governor. No. 1,377,551; May 10; v. 286; p. 280.
- Blair, Albert, *et al.* (See Ehrlich, Leo, assignor.)
- Blair, Chauncey M. (See Sublette, William M., assignor.)
- Blair Engineering Company. (See Egler, Nicholas F., assignor.)
- Blair, Frank W. (See Clark, C. A., and Blair.)



*Alphabetical list of patentees—Continued.*

- Blair, Harold S., Long Branch, N. J. Antirattler. No. 1,382,054; June 21; v. 287; p. 440.
- Blair, Henry, San Ardo, Calif. Milk-pail attachment. No. 1,377,111; May 3; v. 286; p. 139.
- Blair, Isaac J., Spokane, Wash. Valve-seat-dressing tool. No. 1,365,449; Jan. 11; v. 282; p. 315.
- Blair, Isaac J., Spokane, Wash. Combined force-feed and operating device. No. 1,384,116; July 12; v. 288; p. 227.
- Blair, J. C., Company. (See McSheehy, Bartholomew E., assignor.)
- Blair, John H., San Francisco, Calif. Mower. No. 1,383,066; June 28; v. 287; p. 686.
- Blair, Maynard J., Winchester, Mass. Seam-ripping tool. No. 1,390,872; Sept. 13; v. 290; p. 355.
- Blair, Robert S., South Orange, N. J. Heating apparatus. No. 1,367,793; Feb. 8; v. 283; p. 237.
- Blair, Robert S., South Orange, N. J. Musical instrument and record therefor. No. 1,389,236; Aug. 30; v. 289; p. 884.
- Blair, Robert S., Sound Beach, Conn. Composite-joint construction. No. 1,394,137; Oct. 18.
- Blair, Rolandis A., Fort Wayne, Ind., assignor to The P & M Company, Chicago, Ill. Railway-rail anchor. No. 1,384,117; July 12; v. 288; p. 227.
- Blair, William, assignor to Rudge-Whitworth Limited, Crow Lane, Coventry, England. Means for attaching vehicle-spoke covers. No. 1,390,425; Sept. 13; v. 290; p. 265.
- Blair, William, assignor to Rudge-Whitworth Limited, Crow Lane, Coventry, England. Variable gear for motor-vehicles and the like. No. 1,390,426; Sept. 13; v. 290; p. 265.
- Blair, William J., assignor to A. E. Woods, Melbourne, Victoria, Australia. Means for automatically recording calls in telephone systems. No. 1,382,817; June 28; v. 287; p. 638.
- Blaisdell Company. (See Brooks, Harry A., assignor.)
- Blaisdell, Jennie G., West Somerville, Mass. Circuit-controller for liquid-gases. No. 1,389,485; Aug. 30; v. 289; p. 934.
- Blaise, Edward, Brooklyn, N. Y. Cabinet for talking-machine records. No. 1,394,964; Oct. 25.
- Blake, Albert N., et al. (See Roberts, Frank E., assignor.)
- Blake, Alden D., Detroit, Mich. Auxiliary air device. No. 1,364,176; Jan. 4; v. 282; p. 25.
- Blake, Archie, New Orleans, La., assignor of one-third to Mrs. R. W. Chandler. Switch-operating device. No. 1,383,903; July 5; v. 288; p. 133.
- Blake, C. Chandler. (See Jansson, Bennett G., assignor.)
- Blake, Charles C., Brookline, Mass. Securing soles to last-bottoms. No. 1,365,221; Jan. 11; v. 282; p. 270.
- Blake, Charles C., Brookline, Mass. Work-support. No. 1,365,222; Jan. 11; v. 282; p. 270.
- Blake, Charles C., Brookline, Mass. Shank-lasting machine. No. 1,373,402; Apr. 5; v. 285; p. 4.
- Blake, Charles C., Brookline, Mass. Vamp-trimming machine. No. 1,373,403; Apr. 5; v. 285; p. 4.
- Blake, Charles C., Brookline, Mass. Sole-rounding machine. No. 1,373,404; Apr. 5; v. 285; p. 4.
- Blake, Charles C., Brookline, Mass. Welt-shoe. No. 1,375,999; Apr. 26; v. 285; p. 640.
- Blake, Charles C., Brookline, Mass. Heel-lasting machine. No. 1,386,681; Aug. 9; v. 289; p. 213.
- Blake, Charles C., Brookline, Mass. Mechanism for handling articles. No. 1,388,235; Aug. 23; v. 289; p. 631.
- Blake, Charles C., Brookline, Mass. Clutch. No. 1,394,805; Oct. 25.
- Blake, Charles C., Brookline, Mass. Machine for inserting fastenings. No. 1,394,806; Oct. 25.
- Blake, Charles C., Brookline, Mass. Speed-changing mechanism. No. 1,399,737; Dec. 13.
- Blake, Charles C., Brookline, and M. E. Fernald, Saugus, Mass. Work-support. No. 1,373,114; Mar. 29; v. 284; p. 852.
- Blake, Eli J., Buffalo, N. Y., assignor to Hall Switch & Signal Co. System of train control. No. 1,381,698; June 14; v. 287; p. 313.
- Blake, Eli J., Buffalo, N. Y., assignor to Hall Switch & Signal Co. System of speed control. No. 1,388,917; Aug. 30; v. 289; p. 820.
- Blake, George H., Alameda, Calif. Folding sleeping-cot especially adapted for automobiles. No. 1,372,117; Mar. 22; v. 284; p. 616.
- Blake, James, Buffalo, N. Y. Soldering-furnace. No. 1,401,614; Dec. 27.
- Blake, Loring L., assignor to Blake Pencil Co., Chicago, Ill. Lead-feeding pencil. No. 1,388,693; Aug. 23; v. 289; p. 721.
- Blake Pencil Co. (See Blake, Loring L., assignor.)
- Blake, Ralph V., Yonkers, N. Y. Artificial denture. No. 1,369,078; Feb. 22; v. 283; p. 573.
- Blake, Thomas B., assignor of one-half to J. R. Vance, Demopolis, Ala. Foot-measure. No. 1,391,714; Sept. 27; v. 290; p. 662.
- Blake, William F., Toledo, Ohio. Bell and ball toy. No. 1,368,386; Feb. 15; v. 283; p. 399.
- Blake, William F., Toledo, Ohio. Whirling-bell toy. No. 1,383,283; July 5; v. 288; p. 5.
- Blake, William F., Toledo, Ohio. Washing-machine. No. 1,386,682; Aug. 9; v. 289; p. 213.
- Blakeley, Albert E., Fall River, Mass., assignor to The American Thread Company, Jersey City, N. J. Twister-spindle separator. No. 1,373,390; Mar. 29; v. 284; p. 907.
- Blakely, Edward B., assignor to R. M. Hvid Company, Chicago, Ill. Liquid-fuel feed. No. 1,368,475; Feb. 15; v. 283; p. 417.
- Blakely, Richard M., Dayton, Ohio. Domestic refrigerating apparatus. No. 1,381,056; June 7; v. 287; p. 141.
- Blakely, William W., Detroit, Mich. Anchoring device for wheeled vehicles. No. 1,401,389; Dec. 27.
- Blakely, William W., and F. W. Knott, Detroit, Mich.; said Knott assignor to said Blakely. Wheel-anchoring device. No. 1,376,186; Apr. 26; v. 285; p. 675.
- Blakeman, Joseph T., Richland Center, Wis. Steam-generator. No. 1,398,582; Nov. 29.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Paint vehicle. No. 1,375,352; Apr. 19; v. 285; p. 485.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Paint composition. No. 1,375,353; Apr. 19; v. 285; p. 485.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Paint vehicle for anhydrous pigments. No. 1,375,354; Apr. 19; v. 285; p. 485.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Paint composition. No. 1,375,355; Apr. 19; v. 285; p. 485.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Paint vehicle for anhydrous pigments. No. 1,385,033; July 19; v. 288; p. 499.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Paint composition. No. 1,385,034; July 19; v. 288; p. 499.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Mineral oil. No. 1,385,035; July 19; v. 288; p. 499.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Mineral oil. No. 1,385,036; July 19; v. 288; p. 499.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Mineral oil. No. 1,385,037; July 19; v. 288; p. 499.
- Blaker, John D., San Francisco, Calif. Smoker's pipe. No. 1,371,726; Mar. 15; v. 284; p. 486.
- Blakeslee, George S., Chicago, Ill. Washing-machine. No. 1,389,853; Sept. 6; v. 290; p. 59.
- Blakeslee, John R., assignor to The Ajax Manufacturing Company, Cleveland, Ohio. Manufacture of nuts and similar articles. No. 1,384,118; July 12; v. 288; p. 227.
- Blakeslee, Talbert W., Erie, Pa. Syringe. No. 1,391,606; Sept. 20; v. 290; p. 567.
- Blalock, Jesse N., et al., trustees. (See Rockwell, R. L., and Stevens, assignors.)
- Blanchard, Frederick C. (See Field, M. F., Lanning, Hathaway, and Blanchard.)
- Blanchard, George L., Pomona, Calif. Orchard-heater; No. 1,373,647; Apr. 5; v. 285; p. 52.
- Blanchard, George N., San Francisco, Calif. Igniting and controlling device for hydrocarbon generators and burners. No. 1,394,807; Oct. 25.
- Blanchard, George N., assignor to Colmar Burner Co., Inc., San Francisco, Calif. Burner attachment. No. 1,381,273; June 14; v. 287; p. 233.
- Blanchard, George N., assignor to Colmar Burner Co., Inc., San Francisco, Calif. Automatic fuel control. No. 1,387,583; Aug. 16; v. 289; p. 445.
- Blanchard, John F. (See Shore, William E., assignor.)
- Blanchard, Raymond H., Malden, assignor to Hood Rubber Company, Watertown, Mass. Hard-rubber battery-cell and making same. No. 1,380,520; June 7; v. 287; p. 37.
- Blanchard, William F., Denver, Colo. Price-card holding and displaying device for store-shelves. No. 1,390,427; Sept. 13; v. 290; p. 265.
- Bland, J. C. W. (See Baird, M. B., and Walls, assignors.)
- Bland, John C. W. (See Baird, Melville B., assignor.)
- Blandford, Herbert, Elmira, N. Y. Parcel-post container. No. 1,373,292; Mar. 29; v. 284; p. 888.
- Blandin, Frederick F., assignor to Racine Phonograph Company, Racine, Wis. Tone-chamber. No. 1,373,943; Apr. 5; v. 285; p. 110.
- Blando, Frank, New York, N. Y. Folding chair and bed. No. 1,398,253; Nov. 29.
- Blando, Frank, and S. Duca, New York, N. Y. Disk-cutting machine. No. 1,401,307; Dec. 27.
- Blaney, James C., Cleveland, Ohio. Emergency-brake. No. 1,384,589; July 12; v. 288; p. 325.
- Blaney, Thomas, and D. W. Walton, Liverpool, assignors of one-half to The Equipment and Engineering Company, London, England. Overhead trolley or collector for electric tramway and railway vehicles. No. 1,393,939; Oct. 18.
- Blank, Elsie M., Aurora, Ill. Child's garment. No. 1,365,653; Jan. 18; v. 282; p. 393.
- Blank, Herman C., Chicago, Ill. Building-tile. No. 1,400,407; Dec. 13.
- Blanke, Henry. (See Mensch, Arthur J., assignor.)
- Blankenhorn, George S., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Cooling system. No. 1,374,901; Apr. 19; v. 285; p. 398.
- Blankenhorn, George S., Milwaukee, Wis. Abrasion-testing machine. No. 1,386,087; Aug. 2; v. 289; p. 25.
- Blanks, Albert, assignor to The Nugget Polish Co. Ltd., London, England. Means for facilitating the opening of tins. No. 1,375,551; Apr. 19; v. 285; p. 522.



*Alphabetical list of patentees—Continued.*

- Blascheck, Joseph, Westcliff-on-Sea, assignor to Blascheck Patents Limited, London, England. Collapsible hut and other collapsible structure. No. 1,392,110; Sept. 27; v. 290; p. 742.
- Blascheck Patents Limited. (See Blascheck, J., assignor.)
- Blaschke, Charles. (See Berger, W., and Blaschke.)
- Blasiar, Arthur F., Guilford, assignor, by mesne assignments, of forty-nine per cent. to W. Bohleber, New York, N. Y. Control for aerial machines. No. 1,385,658; July 26; v. 288; p. 702.
- Blasiar, Arthur F., Guilford, assignor, by mesne assignments, of forty-nine per cent. to W. Bohleber, New York, N. Y. Control for aerial machines. No. 1,385,858; July 26; v. 288; p. 742.
- Blasingame, Frank P., Canton, Tex. Broom. No. 1,380,521; June 7; v. 287; p. 37.
- Blass, Ferdinand M. E., East Orange, N. J. Self-heating smoothing-iron. No. 1,393,423; Oct. 11.
- Blass, Talmadge, Lackawanna, assignor of one-half to W. H. Abbott, Hamburg, N. Y. Making paint. No. 1,401,634; Dec. 20.
- Blasser, Ernest, Allston, assignor of one-half to G. I. Clayton, Boston, Mass. Ice-cream freezer. No. 1,374,350; Apr. 12; v. 285; p. 229.
- Blatchford Calf Meal Co. (See Ward, Jerome, assignor.)
- Blattner, Abraham, Pittsburgh, Pa. Wearing-apparel. No. 1,382,616; June 28; v. 287; p. 600.
- Blaustein, Joseph, Newark, N. J., assignor to The Controller Company, Incorporated. Calculating-machine. No. 1,369,958; Mar. 1; v. 284; p. 39.
- Blaustein, Joseph, Newark, N. J., assignor to The Controller Company, Incorporated. Calculating-machine. No. 1,370,493; Mar. 1; v. 284; p. 140.
- Blauvelt, William G., New York, N. Y., assignor to American Telephone and Telegraph Company. Semi-mechanical switchboard. No. 1,369,003; Feb. 22; v. 283; p. 558.
- Blaw-Knox Company. (See Brynoldt, Christian, assignor.)
- Blaw Knox Company. (See Goodman, Arlie H., assignor.)
- Blaw-Knox Company. (See Knox, Luther L., assignor.)
- Blaw-Knox Company. (See Loxterman, Howard B., assignor.)
- Blaw-Knox Company. (See McArthur, Charles D., assignor.)
- Blaw-Knox Company. (See Venable, William M., assignor.)
- Blaylock, Selwyn G. (See Lee, F. E., McCallum, and Blaylock.)
- Blaylock, Selwyn G. (See Thom, C., Diamond, and Blaylock.)
- Blazer, Emma H. (See Stailey, C. E., and Blazer.)
- Blazer, Emma H. (See Stailey, C. E., Blazer, and Monson.)
- Blackacek, John K., Bloomer, Wis. Hinge and anchoring means therefor. No. 1,371,141; Mar. 8; v. 284; p. 309.
- Blackacek, John K., Bloomer, Wis. Window-fastener. No. 1,375,769; Apr. 26; v. 285; p. 595.
- Bleaden, J. J. (See Meyenberg, William H., assignor.)
- Bleazard, Richard E. (See Reynolds, E. H., and Bleazard.)
- Blechschtmidt, Arthur F., Dayton, Ky., assignor of one-half to W. E. Beatty. Combination-lock. No. 1,385,810; July 26; v. 288; p. 733.
- Blecksmith, Arthur F., Dayton, Ky. Safe. No. 1,384,509; July 12; v. 288; p. 308.
- Bledsoe, John H., and M. Hauser, Kansas City, Mo. Air-trap. No. 1,364,690; Jan. 4; v. 282; p. 124.
- Bleecker, Warren F., assignor to The Tungsten Products Company, Boulder, Colo. Producing tungstic oxid. No. 1,399,245; Dec. 6.
- Bleecker, Warren F., assignor to The Tungsten Products Company, Boulder, Colo. Extraction of vanadium, uranium, and radium from certain ores. No. 1,399,246; Dec. 6.
- Bleesing, William, C. F. Howard, and S. A. Pexton, assignors to Chicago Novelty Co., Chicago, Ill. Toy. No. 1,379,740; May 31; v. 286; p. 896.
- Bleick, William D. (See Camp, Edgar M., assignor.)
- Bleick, William D. (See Doerr, Fred H., assignor.)
- Bleicken, Berthold, Gross-Borstel, near Hamburg, Germany. Apparatus for producing distilled water. No. 1,401,578; Dec. 27.
- Blenio, Guido, assignor to Blenio Products Corporation, New York, N. Y. Dry mixture for fire and water proof paint. No. 1,382,617; June 28; v. 287; p. 600.
- Blenio, Guido, assignor to Blenio Products Corporation, New York, N. Y. Fireproofing solution. No. 1,382,618; June 28; v. 287; p. 600.
- Blenio, Guido, assignor to Blenio Products Corporation, New York, N. Y. Fire-extinguisher. No. 1,382,619; June 28; v. 287; p. 600.
- Blenio Products Corporation. (See Blenio, Guido, assignor.)
- Blessing, John G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone switching apparatus. (Reissue.) No. 15,068; Mar. 22; v. 284; p. 722.
- Blessington, Stephen G., Haverhill, and A. H. Cosgrove, Boston, assignors to American Lacing Hook Co., Waltham, Mass. Lacing-stud-setting machine with reinforcing-tape therefor. No. 1,377,657; May 10; v. 286; p. 300.
- Blest, Minot C., Bellevue, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Door-operating mechanism. No. 1,390,333; Sept. 13; v. 290; p. 247.
- Blethen, Clarence B., Seattle, Wash. Making engravers' plates for reproducing photographs in colors in newspapers. No. 1,364,238; Jan. 4; v. 282; p. 87.
- Blevins, Emory L., Pattonhill, Mont. Air-compressor. No. 1,393,742; Oct. 18.
- Blevins, Walker S. (See Rasnick, J. S., and Blevins.)
- Blickle, Herman R., Pittsburgh, Pa. Building construction. No. 1,371,727; Mar. 15; v. 284; p. 486.
- Blinn, Harry M., Baltimore, Md. Baking preparation. No. 1,370,272; Mar. 1; v. 284; p. 99.
- Bliss, Amos R., Chicago, Ill. Device for humidifying the atmosphere of a room. No. 1,369,775; Mar. 1; v. 284; p. 5.
- Bliss, Annie L., administratrix. (See Bliss, Samuel A.)
- Bliss, Bruce E., Wichita, Kans. Anti-skid and mud chain. No. 1,380,522; June 7; v. 287; p. 37.
- Bliss, Edward, Vineland, N. J. Necktie and securing means therefor. No. 1,366,864; Jan. 25; v. 282; p. 676.
- Bliss, Elmer J., Boston, Mass. Orthopedic last. No. 1,387,038; Aug. 9; v. 289; p. 286.
- Bliss, George H., assignor to A. G. Bradish & Son, Inc., Boston, Mass. Cover-securing hoop. No. 1,378,649; May 17; v. 286; p. 543.
- Bliss, Graydon C. (See Bliss, Robert H. and G. C.)
- Bliss, Gustave E., Newark, N. J., and F. Smart, New York, N. Y. Memorandum-paper holder. No. 1,365,082; Jan. 11; v. 282; p. 243.
- Bliss, Herbert R., Monroe, Mich. Shipping-case. No. 1,373,161; Mar. 29; v. 284; p. 862.
- Bliss, Herbert R., Monroe, Mich. Constructing and sealing shipping-cases. No. 1,379,797; May 31; v. 286; p. 907.
- Bliss, Herbert R., Niagara Falls, N. Y. Shipping-case. No. 1,375,127; Apr. 19; v. 285; p. 441.
- Bliss, John, assignor to C. C. Wakefield & Company, Limited, London, England. Holder for containers. No. 1,365,368; Jan. 11; v. 282; p. 299.
- Bliss, Robert H. and G. C., Syracuse, N. Y. Sash. No. 1,400,260; Dec. 13.
- Bliss, Samuel A., deceased, Peoria, Ill., by A. L. Bliss, administratrix. Burner for projection-lanterns. No. 1,367,582; Feb. 8; v. 283; p. 197.
- Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Construction of electric conductors. No. 1,364,861; Jan. 11; v. 282; p. 201.
- Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,393,940; Oct. 18.
- Bliss, William L., assignor to U. S. Light and Heat Corporation, Niagara Falls, N. Y. Generator-mounting. No. 1,398,830; Nov. 29.
- Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Generator-mounting. No. 1,398,831; Nov. 29.
- Bliss, William L., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,400,856; Dec. 20.
- Blist, Albert, San Francisco, Calif. Letter-opener. No. 1,371,843; Mar. 15; v. 284; p. 508.
- Bliven, Bertrand C., San Francisco, Calif. Grease-gun. No. 1,390,011; Sept. 6; v. 290; p. 91.
- Bliven, Bertrand C., San Francisco, Calif. Grease-gun. No. 1,400,207; Dec. 13.
- Bloch, André, Paris, France. Isolating listening apparatus. No. 1,364,691; Jan. 4; v. 282; p. 124.
- Bloch, Harry E. (See Edison, Karl, assignor.)
- Bloch, Olaf. (See Renwick, F. F., and Bloch.)
- Blochowick, Frank S. (See Erickson, Ingvald E., assignor.)
- Block, A. C., et al. (See Spencer, Elmer H., assignor.)
- Block, Alexander, New York, N. Y. Lock. No. 1,377,456; May 10; v. 286; p. 263.
- Block, Alexander, New York, N. Y. Lock. No. 1,377,457; May 10; v. 286; p. 263.
- Block, Alexander, New York, N. Y. Keeper. No. 1,377,458; May 10; v. 286; p. 263.
- Block, Alexander, New York, N. Y. Typewriter. No. 1,389,237; Aug. 30; v. 289; p. 884.
- Block, Alexander, New York, N. Y. Lock. No. 1,393,006; Oct. 11.
- Block, Alexander E., St. Louis, Mo. Support for the anterior metatarsal arch of the foot. (Reissue.) No. 15,053; Mar. 1; v. 284; p. 142.
- Block, Alexander E., St. Louis, Mo. Arch-support. No. 1,378,398; May 17; v. 286; p. 494.
- Block, Benjamin B., assignor of one-half to M. A. Scherflee, Los Angeles, Calif. Air-heater for internal-combustion engines. No. 1,400,015; Dec. 13.
- Block, Joseph. (See Dam, Henry R., assignor.)
- Block, Louis J. (See Carmody, J. C., and Block.)
- Block & Reuter. (See Reuter, Henry C., assignor.)
- Blocker, Bolling L., Chattanooga, Tenn. Rocking seat for children. No. 1,374,902; Apr. 12; v. 285; p. 398.
- Blocker Toy Manufacturing Company. (See Greenstreet, Milfred L., assignor.)
- Blodgett Engineering and Tool Company. (See Loeffler, Christian, assignor.)
- Blodgett, George R., M. E. Cheney, Brooklyn, and R. T. Hurley, New York, N. Y. Spark-plug. No. 1,399,375; Dec. 6.



## Alphabetical list of patentees—Continued.

- Blodgett, George R., M. E. Cheney, Brooklyn, and R. T. Hurley, New York, N. Y. Spark-plug. No. 1,399,376; Dec. 6.
- Blodgett, William G., Los Angeles, Calif. Well-drilling tool. No. 1,375,817; Apr. 26; v. 285; p. 604.
- Blodgett, William G., and M. H. Roach, Los Angeles, Calif. Exhibiting device. No. 1,393,743; Oct. 18.
- Bloede, Victor G., Catonsville, Md. Manufacture of vegetable glue. No. 1,396,315; Nov. 8.
- Blomberg, Klas G., Södertälje, and B. A. Pettersson, Lidköping, Sweden. Device for feeding the wire in machines for production of dress-fasteners. No. 1,376,668; May 3; v. 286; p. 54.
- Blomberg, Klas G., Södertälje, and B. A. Pettersson, Lidköping, Sweden. Machine for producing spring dress-fasteners. No. 1,382,463; June 21; v. 287; p. 517.
- Blomberg, Klas G., Södertälje, and B. A. Pettersson, Lidköping, Sweden. Machine for producing spring dress-fasteners. No. 1,395,899; Nov. 1.
- Blomberg, Klas G., Södertälje, and B. A. Pettersson, Lidköping, Sweden. Machine for producing spring dress-fasteners. No. 1,395,900; Nov. 1.
- Blomquist, Ernest O. E., Woodside, N. Y. Floor waxing and polishing device. No. 1,394,662; Oct. 25.
- Blondel, Alfred, Tournai, Belgium. Floating and lifting bridge. No. 1,367,115; Feb. 1; v. 283; p. 46.
- Blondel, André E., Paris, France. Recording apparatus for radiotelegraphic signals. No. 1,400,517; Dec. 20.
- Blood, Bryant H., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Seasoning steel articles. No. 1,373,589; Apr. 5; v. 285; p. 41.
- Blood, Bryant H., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Linear-measuring machine. No. 1,389,341; Aug. 30; v. 289; p. 905.
- Blood, Burr B., Chicago, Ill. Reproducible for phonographs. No. 1,365,298; Jan. 11; v. 282; p. 286.
- Blood, Burr B., assignor to G. Heidman and N. A. Street, Chicago, Ill. Motor. No. 1,378,211; May 17; v. 286; p. 459.
- Blood, Clinton R., Sturgeon Bay, Wis. Removable steering-wheel for automobiles. No. 1,378,316; May 17; v. 286; p. 479.
- Blood, Harold L., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Planer and system of motor control therefor. No. 1,370,726; Mar. 8; v. 284; p. 230.
- Blood, Harold L., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Planer and system of motor control therefor. No. 1,389,342; Aug. 30; v. 289; p. 905.
- Blood, Harold L., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Planer and system of motor control therefor. No. 1,397,396; Nov. 15.
- Blood, Leon S., Hartland, Vt. Sap-gathering means. No. 1,366,054; Jan. 18; v. 282; p. 472.
- Blood, Louis H., assignor to The Oesterlein Machine Company, Cincinnati, Ohio. Milling-machine. No. 1,371,772; Mar. 15; v. 284; p. 494.
- Blood, Orville M., Chicago, Ill. Combined collar-button and tie-slip. No. 1,374,351; Apr. 12; v. 285; p. 229.
- Blood, Thomas G., Birmingham, England. Saucepan and like cooking and heating appliances. No. 1,391,525; Sept. 20; v. 290; p. 551.
- Bloodgood, James H., Portsmouth, Va. Device for protecting the ignition system of automobiles. No. 1,381,394; June 14; v. 287; p. 255.
- Bloodworth, James S., Macon, Ga. Baggage-check. No. 1,367,531; Feb. 8; v. 283; p. 187.
- Bloom, Bertha, assignor to M. Schultz, Woodcliff, N. J. Jewelry-clasp. No. 1,377,552; May 10; v. 286; p. 280.
- Bloom, Charles F., Portland, Oreg. Centrifugal casting-machine. No. 1,400,857; Dec. 20.
- Bloom, Harry, M. Gerber, and J. Piterman, assignors to Bloom, Gerber, and Piterman, Chicago, Ill. Article of furniture. No. 1,374,716; Apr. 12; v. 285; p. 300.
- Bloom, Jacob E., Brooklyn, N. Y. Electrical treatment in the compounding of solids with gases or solids with solids and gases, including fertilizers, and apparatus therefor, and the products resulting therefrom. No. 1,377,553; May 10; v. 286; p. 280.
- Bloom, Jacob E., Brooklyn, N. Y. Process and apparatus for the electrical utilization of molten slags. No. 1,377,554; May 10; v. 286; p. 280.
- Bloom, Leo, Brooklyn, N. Y. Combined gas burner and heater. No. 1,400,719; Dec. 20.
- Bloom, Nathan, Philadelphia, Pa. Artificial tooth. No. 1,365,962; Jan. 18; v. 282; p. 455.
- Bloom, Oral A., Oneida, Kans. Power attachment for Ford cars. No. 1,400,720; Dec. 20.
- Bloom, William O., West Boylston, Mass. Rug-holder. No. 1,370,727; Mar. 8; v. 284; p. 231.
- Bloomfield, Arthur E., Rochester, N. Y. Map. No. 1,390,079; Sept. 6; v. 290; p. 105.
- Bloomfield, Arthur E., assignor to Whit Field Map Company, Inc., Rochester, N. Y. Map. No. 1,364,239; Jan. 4; v. 282; p. 37.
- Bloomfield, Benares J., Brighton, England. Means for securing articles on mandrels, spindles, and the like. No. 1,382,249; June 28; v. 287; p. 663.
- Bloomfield, Henry R., assignor to Liquid Cleaning Stimulant Co. Inc., New York, N. Y. Filtering and cleansing composition. No. 1,396,244; Nov. 8.
- Bloomfield, John C., East Columbus, Ohio. Leveling-harrow. No. 1,389,808; Sept. 6; v. 290; p. 50.
- Bloomfield, Robert B., Bagdad, Fla. Indestructible toy train. No. 1,399,247; Dec. 6.
- Bloomingdale, George T., Parkersburg, W. Va. Window-cleaning device. No. 1,385,603; July 26; v. 288; p. 691.
- Bloomquist, Ernest V., Minneapolis, Minn. Cashier's ticket. No. 1,385,425; July 26; v. 288; p. 654.
- Bloomstein, Max, Nashville, Tenn. Shoe-shining device. No. 1,375,625; Apr. 19; v. 285; p. 536.
- Bloss, Richard R., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Derrick-fitting. No. 1,400,408; Dec. 13.
- Bloss, Richard R., and W. Schwemlein, assignors to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Derrick-fitting. No. 1,385,659; July 26; v. 288; p. 703.
- Bloss, Richard R., and W. Schwemlein, assignors to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Fitting for diagonal braces. No. 1,388,162; Aug. 23; v. 289; p. 616.
- Blossom, Alden, Newton Square, Pa. Device for regulating temperature. No. 1,391,935; Sept. 27; v. 290; p. 707.
- Blough, Earl, Parnassus, assignor to Aluminum Company of America, Pittsburgh, Pa. Heat treatment of aluminum alloys. No. 1,394,534; Oct. 25.
- Blough, I. W., administratrix. (See Traphagan, Frank M., assignor.)
- Blount, Harry. (See Kochendorfer, F. S., and Blount.)
- Blossom, Arthur E., Pueblo, Colo. Door-latch. No. 1,370,681; Mar. 8; v. 284; p. 221.
- Bloxson, John J., and E. E. Myers, Brookville, Pa. Glass-drawing apparatus. No. 1,375,818; Apr. 26; v. 285; p. 605.
- Bloxson, Robert G., Camden, N. J. Gage. No. 1,371,844; Mar. 15; v. 284; p. 508.
- Blue, Edward G., Grape Creek, Ill. Demountable rim. No. 1,392,292; Oct. 4.
- Blue, John, Laurinburg, N. C. Planter. No. 1,374,632; Apr. 12; v. 285; p. 284.
- Blue, John, Laurinburg, N. C. Planter. No. 1,393,744; Oct. 18.
- Blum, Charles, Philadelphia, Pa. Torpedo. No. 1,382,166; June 21; v. 287; p. 460.
- Blum, George J., assignor to Armstrong-Blum Mfg. Company, Chicago, Ill. Punch-press. No. 1,382,464; June 21; v. 287; p. 517.
- Blum, Joseph K., New York, N. Y. Hammer for pulverizers. No. 1,366,512; Jan. 25; v. 282; p. 606.
- Blum, Joseph K., Greenburgh, N. Y. Disintegrator. No. 1,384,821; July 19; v. 288; p. 454.
- Blum, Morris, Los Angeles, Calif. Valve. No. 1,398,764; Nov. 29.
- Blumberg, Hamilton G., San Antonio, Tex. Internal-combustion engine. No. 1,368,881; Feb. 15; v. 283; p. 496.
- Blumberg, Hamilton G., Orange, Tex. Transmission-gearing. No. 1,368,882; Feb. 15; v. 283; p. 496.
- Blumberg, Paul, and O. Mehl, New Holstein, Wis. Plow connection for tractors. No. 1,365,299; Jan. 11; v. 282; p. 286.
- Blumberg, Paul and Otto Mehl, New Holstein, Wis. Tractor-clutch control. No. 1,381,104; June 14; v. 287; p. 202.
- Blume, George F., Philadelphia, Pa. Motor-support. No. 1,373,708; Apr. 5; v. 285; p. 63.
- Blume, George F., Philadelphia, Pa. Distancing device. No. 1,380,347; June 7; v. 287; p. 5.
- Blumenauer, Charles H. (See Rankin, Carl H., assignor.)
- Blumenberg, Henry, Jr., Oro Grande, Calif. Process and apparatus for the electrolytic generation of arsin, phosphin, and stibin. No. 1,375,819; Apr. 26; v. 285; p. 605.
- Blumenberg, Henry, Jr., Oro Grande, Calif. Electric production of ammonia. No. 1,388,448; Aug. 23; v. 289; p. 675.
- Blumenberg, Henry, Jr., Daggett, Calif. Process and apparatus for generating explosive gases. No. 1,379,077; May 24; v. 286; p. 696.
- Blumenberg, Henry, Jr., Barstow, assignor to J. H. Blumenberg, Huntington Park, Calif. Primer for internal-combustion engines. No. 1,375,820; Apr. 26; v. 285; p. 605.
- Blumenberg, John H. (See Blumenberg, Henry, Jr., assignor.)
- Blumenfeld, Harris D., Haverstraw, N. Y. Switch-lever-operating mechanism. No. 1,377,053; May 3; v. 286; p. 129.
- Blumenthal, Alfred, New York, N. Y. Oiling device. No. 1,370,273; Mar. 1; v. 284; p. 99.
- Blumenthal, Maurice, Brooklyn, N. Y. Chair-mat. No. 1,379,958; May 31; v. 286; p. 937.
- Blumer, Paul. (See Haas, T. J., and Blumer.)
- Blundell, Mary R., et al. (See Blundell, William C., assignor.)
- Blundell, William C., assignor of one-half to M. R. Blundell and one-half to O. W. Smith, Los Angeles, Calif. Low-water signal for steam-boilers. No. 1,395,550; Nov. 1.
- Blunden, George T., London, England. Device for mounting timepieces. No. 1,393,607; Oct. 11.
- Blunk, Heinrich. (See Imhoff, K., and Blunk.)



*Alphabetical list of patentees—Continued.*

- Blye, Harold, assignor to National Brass Company, Grand Rapids, Mich. Lock set. No. 1,399,538; Dec. 6.
- Blynt, Herbert S. (See Monnett, J. I., and Blynt.)
- Blythe, Harry H., *et al.* (See Cozens, George H., assignor.)
- Boak, Thomas I. S. (See Bellamore, D. H., and Boak.)
- Boake, A. Roberts & Co. Limited. (See Durran, Thomas H., assignor.)
- Board, Edward, Philadelphia, Pa. Clenching nail or rivet. No. 1,400,409; Dec. 13.
- Board of Trustees of the University of Illinois. (See Kunz, Jacob, assignor.)
- Boardman, Charles H., Columbus, Ohio. Combined crib and bed construction. No. 1,373,518; May 17; v. 286; p. 517.
- Boardman, Charles S., Buffalo, assignor to Lackawanna Steel Company, Lackawanna, N. Y. Pile-puller. No. 1,376,856; May 3; v. 286; p. 91.
- Boardman, Charles S., Buffalo, assignor to Lackawanna Steel Company, Lackawanna, N. Y. Construction of caissons, cofferdams, and the like. No. 1,398,221; Nov. 29.
- Boardman, Francis, New York, N. Y. Electrical heating device. (Reissue.) No. 15,047; Feb. 22; v. 283; p. 707.
- Bobbroff, James D., Portland, Oreg. Power-saw. No. 1,400,496; Dec. 13.
- Bobo, Walter T., assignor to Battle Creek Appliance Co., Ltd., Battle Creek, Mich. Truss. No. 1,378,317; May 17; v. 286; p. 479.
- Bobrick, Arthur L. (See Bobrick, Gabriel A., and A. L.)
- Bobrick, Gabriel A. and A. L., Los Angeles, Calif. Liquid-dispenser. No. 1,364,347; Jan. 4; v. 282; p. 58.
- Bobroff, Bornett L., Milwaukee, Wis. System for signaling. No. 1,367,583; Feb. 8; v. 283; p. 197.
- Bobroff, Bornett L., Milwaukee, Wis. Signaling system. No. 1,392,293; Oct. 4.
- Bocchetti, William, Brooklyn, N. Y. Silver-solder. No. 1,375,552; Apr. 19; v. 285; p. 522.
- Bocher, Aaron C., Milwaukee, Wis. Electrically-operated voting apparatus. No. 1,393,074; Oct. 11.
- Bock, Alfred C. O., Brooklyn, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 1,377,658; May 10; v. 286; p. 300.
- Bock, Alfred C. O., Brooklyn, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 1,381,395; June 14; v. 287; p. 256.
- Bock Bearing Company, The. (See Bingham, Jeremiah, assignor.)
- Bock Bearing Company, The. (See Flaherty, John F., assignor.)
- Bock, Herman, St. Paul, Minn. Check-holder. No. 1,382,167; June 21; v. 287; p. 460.
- Bockhoff, William F. (See Knipp, Julius W., assignor.)
- Bockover, Walter L., Tipton, Ind. Wrench. No. 1,370,510; Mar. 8; v. 284; p. 188.
- Bodde, Theodore, Lynn, Mass. Submarine sound-detector. No. 1,371,728; Mar. 15; v. 284; p. 486.
- Boddie, Clarence A. (See Bradshaw, W. M., and Boddie.)
- Bode, Charles O., New York, N. Y. Dough forming and cutting machine. No. 1,373,791; Apr. 5; v. 285; p. 79.
- Bodé, Robert R., Honolulu, Hawaii. Pocket-holder for fountain-pens. No. 1,366,329; Jan. 18; v. 282; p. 526.
- Bodeker, Henry F., assignor to B-V. Milking Machine Company, Milwaukee, Wis. Milking-machine. No. 1,396,987; Nov. 15.
- Bodell & Co. (See Hinefine, Edson S., assignor.)
- Bodenstein, Charles I., Rochester, N. Y. Valve-grinder. No. 1,371,142; Mar. 8; v. 284; p. 309.
- Bodenstein, Jacob, Herkimer, N. Y. Guide or support for drawers and the like. No. 1,385,811; July 26; v. 288; p. 733.
- Bodie, Josiah W., Effingham, S. C. Automatic car-replacer. No. 1,392,392; Oct. 4.
- Bodin, Anton, Chesterton, Ind. Tag-locking device. No. 1,401,235; Dec. 27.
- Bodie, Raymond C., Akron, Ohio. Autovehicle-signal. No. 1,366,865; Jan. 25; v. 282; p. 676.
- Bodman, John W., Western Springs, Ill., assignor to William Garrigue & Company, Inc., New York, N. Y. Distillation of fatty acids. No. 1,372,477; Mar. 22; v. 284; p. 686.
- Bodman, John W., Western Springs, and T. M. Godfrey, Chicago, Ill., assignors to William Garrigue & Company, Inc., New York, N. Y. Deodorization of oils. No. 1,385,660; July 26; v. 288; p. 702.
- Bodmer, Christian, assignor to The Stanley Works, New Britain, Conn. Saw-set. No. 1,378,650; May 17; v. 286; p. 543.
- Bodmer, Gottfried, Künsnacht, near Zurich, assignor to H. Meier, Villmergen, Aargau, Switzerland. Coupling for tension members. No. 1,373,590; Apr. 5; v. 285; p. 41.
- Bodungen, Charles G., Goose Creek, Tex. Apparatus for forcing fluid from wells. No. 1,369,318; Feb. 22; v. 283; p. 619.
- Boe, Edd, assignor of one-third to E. A. Halseth and one-third to C. V. Bexell, Clearbrook, Minn. Knife. No. 1,373,993; Apr. 5; v. 285; p. 120.
- Boe, Hans M., Minneapolis, Minn. Grease and oil dispensing apparatus. No. 1,369,517; Feb. 22; v. 283; p. 657.
- Boe, Hans M., Minneapolis, Minn. Grease-dispensing apparatus. No. 1,377,659; May 10; v. 286; p. 300.
- Boe, Hans M., Minneapolis, Minn. Piston for grease-guns. No. 1,377,660; May 10; v. 286; p. 301.
- Boe, John, Gravelbourg, Saskatchewan, Canada. Mechanical toy. No. 1,377,054; May 3; v. 286; p. 129.
- Boeck, John, Boise, Idaho. Turning-signal for vehicles. No. 1,364,348; Jan. 4; v. 282; p. 58.
- Boeckly, Paul. (See Schlatter, G. S., and Boeckly.)
- Boecler, Albert, Malmö, Sweden. Apparatus for manufacturing seamless articles of rubber. No. 1,380,862; June 7; v. 287; p. 103.
- Boedecker, Friedrich, Britz, near Berlin, Germany. Production of a crystallized ester of the stearo-ricinate diacid. No. 1,381,037; June 7; v. 287; p. 141.
- Boedecker, Walter U., assignor, by mesne assignments, to The H. B. Corporation, Chicago, Ill. Dish-washing machine. No. 1,392,476; Oct. 4.
- Boedtcher, Franz A., Bergenfield, N. J. Emergency-switch protector. No. 1,367,854; Feb. 8; v. 283; p. 249.
- Boedtcher, Franz A., Bergenfield, N. J. Door-opening device and lock for elevator-doors. No. 1,400,721; Dec. 20.
- Boegershausen, John, *et al.* (See Gregory, William F., assignor.)
- Boehck, William E., assignor to Revolver Company, Jersey City, N. J. Elevator safety apparatus. No. 1,373,944; Apr. 5; v. 285; p. 110.
- Boehm, Edward, Tampa, Fla. Refrigerator and manufacturing the same. No. 1,378,003; May 17; v. 286; p. 419.
- Boehm, Wendelin, Pittsburgh, Pa. Machine for folding noodles. No. 1,373,293; Mar. 29; v. 284; p. 888.
- Boehm, Wenzel, Swissvale; H. S. Corey, Munhall, and L. A. Lambing, Pittsburgh, Pa. Tar-burner. No. 1,389,563; Aug. 30; v. 289; p. 949.
- Boehnert, Otto, assignor to Vitrola Talking Machine Company, Chicago, Ill. Indicator or measuring-gage for disk records. No. 1,398,710; Nov. 29.
- Boelter, August H., Chicago, Ill. Rug and carpet cleaning machine. No. 1,389,809; Sept. 6; v. 290; p. 50.
- Boenning, William M., Manitowoc, Wis. Shock-absorber. No. 1,381,699; June 14; v. 287; p. 313.
- Boenning, William M., Manitowoc, Wis. Vehicle shock-absorber. No. 1,386,759; Aug. 9; v. 289; p. 229.
- Boenning, William M., Manitowoc, Wis., assignor to A. J. Gerrard, Chicago, Ill. Portable wire-tying machine. No. 1,391,820; Sept. 27; v. 290; p. 683.
- Boercker, Frederick G., St. Louis, Mo. Feeding mechanism for nut-machines and the like. No. 1,370,511; Mar. 8; v. 284; p. 188.
- Boerner, Arno, Scheveningen, Netherlands. Change-speed mechanism. No. 1,372,268; Mar. 22; v. 284; p. 646.
- Boerner, Arno, Scheveningen, Netherlands. Propeller for aircraft. No. 1,373,048; Mar. 29; v. 284; p. 839.
- Boerner, Arno, Scheveningen, Netherlands. Propeller. No. 1,386,490; Aug. 2; v. 289; p. 102.
- Boerner, Arno, Scheveningen, Netherlands. Propeller for aircraft. No. 1,396,917; Nov. 15.
- Boesch, Harry L., Washington, D. C., assignor to Government of the United States, represented by the Secretary of the Navy. Torpedo. No. 1,375,821; Apr. 26; v. 285; p. 605.
- Boesel, Aloysius G. (See Bosworth, C. M., and Boesel.)
- Boettcher, Arthur H. (See Smith, B. L., Barry, and Boettcher.)
- Boettcher, Arthur H., Chicago, Ill. Pilot-directing instrument and bomb-dropping sight for aircraft. No. 1,381,396; June 14; v. 287; p. 256.
- Boettcher, Carl F., Henry, Nebr. Display-sign. No. 1,396,245; Nov. 8.
- Boettcher, John E., Madison, Wis. Measuring apparatus. No. 1,373,049; Mar. 29; v. 284; p. 839.
- Boettcher, Otto J., Manitowoc, Wis. Draw-press. No. 1,366,513; Jan. 25; v. 282; p. 606.
- Boettcher, William J. F., Chicago, Ill. Tool-grinder. No. 1,386,088; Aug. 2; v. 289; p. 26.
- Boetter, Albert V. (See Benjamin, R. B., and Boetter.)
- Boettner, Felix. (See Bailey, G. C., and Boettner.)
- Bofsky, Frank J., Detroit, Mich. Paper-cutter. No. 1,398,711; Nov. 29.
- Bofsky, Frank J., Detroit, Mich. Powder-puff. No. 1,398,712; Nov. 29.
- Bogart, John C., assignor of one-half to P. R. Dinsmore, Bay City, Mich. Differential gearing. No. 1,372,993; Mar. 29; v. 284; p. 829.
- Bogart, Peter B., Milwaukee, Wis. Car-ventilating system. No. 1,395,383; Nov. 1.
- Bogaty, Hermann. (See Ayres, E. B., and Bogaty.)
- Bogaty, Hermann, assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Gear-box. No. 1,398,171; Nov. 22.
- Bogdan, John. (See Mitrosky, J., and Bogdan.)
- Bogdanffy, Stephen E., Hampton, N. J. Evaporator-heating-unit-removing attachment. No. 1,396,316; Nov. 8.
- Bogdanoff, Paul G. (See Weiner, E. M. R., and Bogdanoff.)
- Bogdanoff, Paul G., Battle Creek, Mich. Centrifugal pump. No. 1,369,379; Feb. 22; v. 283; p. 631.
- Bogdanoff, Paul G., Battle Creek, Mich. Centrifugal pump. No. 1,369,380; Feb. 22; v. 283; p. 631.
- Bogert, Frank V., *et al.* (See Whitney, William A., assignor.)
- Boggio, Giusto, Royalton, Ill. Safety-catch for elevators. No. 1,368,103; Feb. 8; v. 283; p. 296.



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- Boggio, Giusto, Royalton, Ill. Mine-door operating mechanism. No. 1,376,248; Apr. 26; v. 285; p. 687.
- Boggs, Addison E., Pittsburgh, and A. Heckman, Wilkesburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,381,163; June 14; v. 287; p. 213.
- Boggs, Henry C., Shamrock, Okla. Valve-stem lock. No. 1,366,114; Jan. 18; v. 282; p. 483.
- Boggs, Robert R. (See Neil, C. B., and Boggs.)
- Boggs, Samuel L., Ivanhoe, Va. Silme-pump. No. 1,383,380; July 5; v. 288; p. 26.
- Boggs, Samuel L., Ivanhoe, Va. Ore-separator. No. 1,390,080; Sept. 6; v. 290; p. 105.
- Bogia, Louis F., Philadelphia, Pa. Electric therapeutic apparatus. No. 1,384,716; July 12; v. 288; p. 352.
- Bognes, Harold M., Dayton, Ohio. Automobile-tire holder. No. 1,376,739; May 3; v. 286; p. 68.
- Bogre, Michael, Detroit, Mich. Washing-machine. No. 1,373,792; Apr. 5; v. 285; p. 79.
- Bogstrand, Ole K., Brooklyn, N. Y. Power plant. No. 1,388,694; Aug. 23; v. 289; p. 721.
- Bohan, Edward E. (See MacDougald, S. F., and Bohan.)
- Bohan, William J., St. Paul, Minn. Refrigerator-car. No. 1,376,794; May 3; v. 286; p. 78.
- Bohan, William J., St. Paul, Minn. Self-intrenching subsurface land-torpedoe. No. 1,388,545; Aug. 23; v. 289; p. 693.
- Bohland, Carl P., St. Paul, Minn. Washing-bowl. No. 1,399,925; Dec. 13.
- Bohleber, William. (See Blasiar, Arthur F., assignor.)
- Bohleber, William, New York, N. Y. Spark-plug. No. 1,384,119; July 12; v. 288; p. 228.
- Bohli, Jacques. (See Billon, F., and Bohli.)
- Bohli, Jacques, Obach, Solothurn, assignor to Firm Scintilla, Solothurn, Switzerland. Rotor for magneto-electric machines. No. 1,385,038; July 19; v. 288; p. 499.
- Bohlman, George J., Medford, assignor to American Water Supply Company of New England, Boston, Mass. Paper-cup holder. No. 1,381,536; June 14; v. 287; p. 282.
- Bohlman, George J., Medford, assignor to American Water Supply Company of New England, Boston, Mass. Paper drinking-cup. No. 1,381,537; June 14; v. 287; p. 282.
- Bohlman, Huldreich A., Milwaukee, Wis. Power-driven shoe-shine brush. No. 1,374,181; Apr. 12; v. 285; p. 197.
- Bohn, Belle H., *et al.*, executors. (See Howell, John A.)
- Bohn, Frank J., Baltimore, Md. Safety device. No. 1,396,017; Nov. 8.
- Böhn, Ingelbret, Sörumsand, Norway. Rock-drilling machine. No. 1,369,609; Feb. 22; v. 283; p. 676.
- Bohnblust, Arnold, Riley, Kans. Straw-feeder. No. 1,375,204; Apr. 19; v. 285; p. 456.
- Bohner, H. E. (See Maize, Adam P., assignor.)
- Bohnert, Otto H., Wauwatosa, Wis. Mitten. No. 1,400,655; Dec. 20.
- Böhneke, Erich, Brooklyn, N. Y. Slide-rule. No. 1,378,993; May 24; v. 286; p. 681.
- Bohr, Mathias F., Stickney, S. D. End-gate lock. No. 1,399,842; Dec. 13.
- Bohrdt, Konrad, Buenos Aires, Argentina. Illuminating device for switches, &c. No. 1,385,300; July 19; v. 288; p. 552.
- Bohrnrich, Louis G. (See Knox, George F., assignor.)
- Bohrsmann, Otto, *et al.* (See Newth, Basil, assignor.)
- Boileau, Modeste, Suancourt-par-Morey, France. Adjustable wick-carrier. No. 1,390,873; Sept. 13; v. 290; p. 355.
- Boiler, Edward V., West Side, Iowa. Liquid-gage. No. 1,375,274; Apr. 19; v. 285; p. 469.
- Boisen, Martin, Sandusky, Ohio. Gas-generator. No. 1,380,183; May 31; v. 286; p. 980.
- Boisen, Martin, Sandusky, Ohio. Gas-generator. No. 1,401,035; Dec. 20.
- Boisseau, Sterling, Richmond, Va. Punch. No. 1,377,055; May 3; v. 286; p. 129.
- Boissonnault, G., Company. (See Boissonnault, Gaston, assignor.)
- Boissonnault, Gaston, Hewlett, N. Y. Telephone-receiver. No. 1,401,753; Dec. 27.
- Boissonnault, Gaston, Hewlett, assignor to G. Boissonnault Company, New York, N. Y. Telephone-transmitter. No. 1,401,754; Dec. 27.
- Boivin, André, Paris, France. Machine for manufacturing sugar loaves molded by compression. No. 1,379,847; May 31; v. 286; p. 916.
- Bojko, Iwan, assignor of one-third to J. Yadwisinczak, Rome, N. Y. Fountain-brush. No. 1,382,055; June 21; v. 287; p. 440.
- Bokemeyer, Charles H., assignor to The Alpha Timer and Accessories Company, Baltimore, Md. Timer for internal-combustion engines. No. 1,378,833; May 24; v. 286; p. 651.
- Boker, Vitus A., Minneapolis, Minn. Traction-wheels. No. 1,376,394; May 3; v. 286; p. 3.
- Boker, Vitus A., Minneapolis, Minn. Jar-cover remover. No. 1,376,395; May 3; v. 286; p. 4.
- Boker, Vitus A., Minneapolis, Minn. Check-protector. No. 1,385,168; July 19; v. 288; p. 527.
- Bokop, Henry D., Defiance, Ohio. Collapsible shipping-box. No. 1,373,162; Mar. 29; v. 284; p. 862.
- Bolam, Thomas H., *et al.* (See Newman, Arthur S., assignor.)
- Boland, Edward R., Arcadia, Calif. Parachute-harness. No. 1,385,773; July 26; v. 288; p. 726.
- Boland, Marion D., Appleton, Ark. Cotton-chopper. No. 1,387,344; Aug. 9; v. 289; p. 346.
- Bolander, John A., Berkeley, Calif. Banjo. No. 1,365,450; Jan. 11; v. 282; p. 315.
- Bolander, John A., Berkeley, Calif. Banjo. No. 1,378,212; May 17; v. 286; p. 459.
- Bolas, Harold, Clifton, Bristol, assignor to G. G. Parnall, Park Row, Bristol, England. Control of the ailerons and elevators of aircraft. No. 1,376,740; May 3; v. 286; p. 68.
- Bolas, Harold, assignor to G. G. Parnall, Bristol, England. Alighting-gear of aircraft. No. 1,386,310; Aug. 2; v. 289; p. 69.
- Bolas, Harold, Clifton, Bristol, assignor to G. G. Parnall, Bristol, England. Means for folding the planes of aircraft. No. 1,395,628; Nov. 1.
- Bokum, William F., and H. V. Coulston, assignors to Smith and Furbush Machine Company, Philadelphia, Pa. Garnett machine. No. 1,401,863; Dec. 27.
- Boldorini, Angelo. (See Revel, F., and Boldorini.)
- Bole, Robert E., Los Angeles, Calif. Apparatus for fighting fire in liquid-receptacles. No. 1,386,232; Aug. 2; v. 289; p. 54.
- Bolender, Joel D., and E. R. Creamer, assignors to The George R. Carter Company, Connerville, Ind. Molding for upholstery. No. 1,387,639; Aug. 16; v. 289; p. 457.
- Boles, Alonzo R., Hollywood, Calif. Paper-molding machine. No. 1,367,116; Feb. 1; v. 283; p. 46.
- Boles, Wiley E., Indianapolis, Ind. Casing for automobile signal-lights. No. 1,373,945; Apr. 5; v. 285; p. 111.
- Boles, Wiley E., assignor to G. Riser, Indianapolis, Ind. Kim-lug. No. 1,365,582; Jan. 11; v. 282; p. 341.
- Bolewicz, Joseph, *et al.* (See Farrell, Richard J., assignor.)
- Bolger, Robert S., Richmond Hill, N. Y. Spool manufacture. No. 1,366,336; Jan. 18; v. 282; p. 527.
- Bolich, Charles M., Allentown, Pa. Holder for license-plates. No. 1,384,229; July 12; v. 288; p. 250.
- Bolig, Thomas F., Bellevue, Ohio. Line-buckle. No. 1,388,401; Aug. 23; v. 289; p. 665.
- Bolin, Charles D., assignor to American Thermometer Company, St. Louis, Mo. Thermometer. No. 1,390,666; Sept. 13; v. 290; p. 315.
- Boll, Oscar, West Hoboken, N. J. Flashing. No. 1,394,403; Oct. 18.
- Boll, Oscar, West Hoboken, N. J. Flashing. No. 1,394,404; Oct. 18.
- Boll, William J., Platteville, Wis. Lawn-mower attachment. No. 1,388,794; Aug. 23; v. 289; p. 741.
- Boll, William J., Platteville, Wis. Lawn-mower attachment. No. 1,399,601; Dec. 6.
- Bollen, Guillaume, Liège, Belgium. Pulley. No. 1,369,319; Feb. 22; v. 283; p. 619.
- Bolles, William B., Milwaukee, Wis. Means for holding bolts of doors in retracted position. No. 1,367,855; Feb. 8; v. 283; p. 250.
- Bolles, William B., Milwaukee, Wis. Emergency-door-lock-operating mechanism. No. 1,383,973; July 5; v. 288; p. 148.
- Bolles, William B., Milwaukee, Wis. Operating mechanism for exit-doors. No. 1,383,974; July 5; v. 288; p. 148.
- Bollier, Walter, and I. Diemand, Zurich, Switzerland. Time-recording apparatus. No. 1,395,665; Nov. 1.
- Bolline, Louis L., *et al.* (See Barchiesi, Aurelio, assignor.)
- Bolling, Baltzar E., Racine, Wis. Die-casting ejector. No. 1,394,246; Oct. 18.
- Bolling, Baltzar E., Racine, Wis. Die-block. No. 1,394,247; Oct. 18.
- Bollinger, Frederick P., assignor of one-half to W. J. Peck, Newark, N. J. Tool for turning crank-pins, &c. No. 1,386,984; Aug. 9; v. 289; p. 275.
- Bollman, Charles M., Cincinnati, Ohio, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for mounting shoes on lasts. No. 1,383,519; July 5; v. 288; p. 53.
- Bollman, Hermann, Hamburg, Germany. Removal of fatty acids, resins, bitter and mucilaginous substances from fats and oils. No. 1,371,342; Mar. 15; v. 284; p. 410.
- Bollmann, Hermann, Hamburg, Germany. Removal of volatile solvents from material treated therewith. No. 1,371,546; Mar. 15; v. 284; p. 452.
- Bollow, George W. (See Nelson, Nels A., assignor.)
- Bolls, William W., Washington, D. C. Dental instrument. No. 1,384,740; July 19; v. 288; p. 437.
- Bologa, Nekifor, Cleveland, Ohio. Still. No. 1,379,520; May 24; v. 286; p. 751.
- Bolstad, Martin J., Salt Lake City, Utah. Necktie-retainer. No. 1,388,163; Aug. 23; v. 289; p. 616.
- Bolton, Benjamin, Salt Lake City, Utah. Amplifier for phonographs. No. 1,372,269; Mar. 22; v. 284; p. 647.
- Bolton, Bertha, *et al.* (See Bolton, Philip W., assignor.)
- Bolton, George W., Dallas, Tex. Metallic mold for concrete walls. No. 1,374,717; Apr. 12; v. 285; p. 300.
- Bolton, John B., Methuen, assignor to J. M. Van Heusen, Boston, Mass. Collar. No. 1,383,693; July 5; v. 288; p. 90.



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- Bolton, John B., Methuen, assignor to J. M. Van Heusen, Boston, Mass. Collar. No. 1,383,694; July 5; v. 288; p. 91.
- Bolton, Philip W., assignor of one-eighth to W. N. Minnear, one-eighth to G. D. Minnear, one-eighth to N. G. Ryman, and one-eighth to B. Bolton, Coffeyville, Kans. Pressure-valve. No. 1,367,452; Feb. 1; v. 283; p. 113.
- Bolton, Walter G., Springfield, Mass. Car. No. 1,401,864; Dec. 27.
- Boltshauser, Conrad, assignor to Cosmophos-Werke A.-G.-Rorschach, Switzerland. Electric pocket-lamp. No. 1,365,636; Jan. 11; v. 282; p. 350.
- Boltshauser, Heinrich, Zurich, Switzerland. Means for receding water. No. 1,365,148; Jan. 11; v. 282; p. 256.
- Boltshauser, Heinrich, Zurich, Switzerland. Steam-turbine-driven locomotive. No. 1,401,308; Dec. 27.
- Bombardie, Charles H. (See Inwood, R. G., and Bombardie.)
- Bombardie, Charles H., South Bend, Ind., assignor to Wirebounds Patents Company, Kittery, Me. Wirebound box. No. 1,364,850; Jan. 4; v. 282; p. 154.
- Bombardie, Charles H., South Bend, Ind., assignor to Wirebounds Patents Company, Kittery, Me. Box-making machine. No. 1,371,598; Mar. 15; v. 284; p. 461.
- Bombardie, Charles H., South Bend, Ind., assignor to Wirebounds Patents Company, Kittery, Me. Wirebound-box machine. No. 1,371,599; Mar. 15; v. 284; p. 462.
- Bomboy, Arthur, Charlotte, N. C. Ink-receptacle. No. 1,364,692; Jan. 4; v. 282; p. 124.
- Böminghaus, Franz, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Vehicle-spring. No. 1,388,695; Aug. 23; v. 289; p. 695.
- Bonaccorso, Orazio, assignor of one-half to G. Lo Bue, Philadelphia, Pa. Automatic train-stopping apparatus. No. 1,401,755; Dec. 27.
- Bonar, James H., New London, Iowa. Oil-can. No. 1,368,104; Feb. 8; v. 283; p. 296.
- Bond, Charles, *et al.* (See Opt. Warren N., assignor.)
- Bond, Charles L., Philadelphia, Pa. Automatic weighing-machine. No. 1,374,876; Apr. 12; v. 285; p. 331.
- Bond, Frederick W., Ransomville, N. Y. Excavating-bucket and operating means therefor. No. 1,398,222; Nov. 29.
- Bond, Joseph T., assignor to Sealright Co. Inc., Fulton, N. Y. Paper-container machinery. No. 1,401,132; Dec. 27.
- Bond, Joseph W., Philadelphia, Pa., assignor to Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,364,974; Jan. 11; v. 282; p. 223.
- Bond, Loren C., Washington, D. C. Tag safety-pin. No. 1,390,191; Sept. 6; v. 290; p. 127.
- Bond, Thomas J., Gadsden, Ala. Hook. No. 1,398,887; Nov. 29.
- Bond, William G. (See Scott, H. P., and Bond.)
- Bondi, Guido, Dayton, Ky. Mold for making musical instruments. No. 1,369,381; Feb. 22; v. 283; p. 631.
- Bondy, Alfred R. (See Belais, D., and Bondy.)
- Bone, Benjamin F., *et al.* (See Dungan, John E., assignor.)
- Bone, Evan P., Cincinnati, Ohio. Headlamp. No. 1,389,291; Aug. 30; v. 289; p. 895.
- Bone, Matthew. (See Parsons, C. A., Cook, Carnegie, Ford, and Bone.)
- Bonelli, George A., Kingman, Ariz. Power-transmission attachment for automobiles. No. 1,399,738; Dec. 13.
- Bonelli, Pasquale, Port Richmond, N. Y. Boot. No. 1,381,538; June 14; v. 287; p. 282.
- Bonenberger, Frank A., Louisville, Ky. Coin-controlled machine. No. 1,384,230; July 12; v. 288; p. 250.
- Bonestell, Blanche, assignor to Huyler's, New York, N. Y. Candy-package. No. 1,390,667; Sept. 13; v. 290; p. 315.
- Bonge, George A., (See McNulty, Charlie A., assignor.)
- Bonham, Guy L., Hartford, Conn. Car-mover. No. 1,391,715; Sept. 27; v. 290; p. 662.
- Bonham, Guy L., West Hartford, Conn. Automobile-jack. No. 1,396,619; Nov. 8.
- Bonham, Llewellyn, Oxford, assignor to The Bonham Recorder Company, Hamilton, Ohio. Fare-register. No. 1,372,655; Mar. 22; v. 284; p. 720.
- Bonham Recorder Company, The. (See Bonham, Llewellyn, assignor.)
- Bonham, William K., Coffeyville, Kans. Dome-cover for oil-cars. No. 1,398,832; Nov. 29.
- Bonheur, Amelia, New York, N. Y. Convertible scarf and sweater. No. 1,364,693; Jan. 4; v. 282; p. 124.
- Bonk, Martin A., Manitowoc, Wis. Concrete tie and rail fastening. No. 1,399,926; Dec. 13.
- Bonnell, George, Chicago, Ill. Code-book. No. 1,372,797; Mar. 29; v. 284; p. 789.
- Bonnell, Herbert H., Denver, Colo. Flotation apparatus. No. 1,399,539; Dec. 6.
- Bünnelycke, Emil. (See Karr, Henry C., assignor.)
- Bonner, Paul H., assignor to Stehli Silks Corporation, New York, N. Y. Silk-throwing machine. No. 1,390,081; Sept. 6; v. 290; p. 106.
- Bonner, William T., Trenton, N. J., assignor of one-half to M. Brown and one-half to M. Brown, trustee, Boston, Mass. Mold. No. 1,396,158; Nov. 8.
- Bonnet, Antoine H. T., *et al.* (See Cambay, Charles A., assignor.)
- Bonnet, Charles E., Philadelphia, Pa., assignor, by mesne assignments, to The Bishop-Babcock-Becker Company, Cleveland, Ohio. Pneumatic thermostat. No. 1,365,812; Jan. 18; v. 282; p. 425.
- Bonnett, Joe E., Troy, W. Va. Wrench. No. 1,381,786; June 14; v. 287; p. 329.
- Bonniwell, Thomas J., Chicago, Ill. Stripping mechanism for wringer-rolls. No. 1,375,356; Apr. 19; v. 285; p. 485.
- Bonomini, Bruno, and L. Duca, assignors to Societa Anonima A. B. G. D., Milan, Italy. Magneto. No. 1,372,739; Mar. 29; v. 284; p. 777.
- Bonroe, Frank A., Webster Groves, Mo. Belt-shifting device. No. 1,374,811; Apr. 12; v. 285; p. 318.
- Bonsall, Charles D., Parnassus, Pa., assignor to W. P. Murphy, New York, N. Y. Railway-car-wall construction. No. 1,374,421; Apr. 12; v. 285; p. 243.
- Bonsall, Charles D., Parnassus, Pa., assignor to W. P. Murphy, New York, N. Y. Railway-car wall construction. No. 1,379,386; May 24; v. 286; p. 756.
- Bonsall, Thomas L. (See Baker, Clinton C., assignor.)
- Bonsall, Thomas L., Ottawa, Ontario, Canada. Mop. No. 1,392,741; Oct. 4.
- Bonsiakos, Michael, San Francisco, Calif. Marking device. No. 1,367,939; Feb. 8; v. 283; p. 264.
- Bontemps, Antoine, and G. N. Vis, Paris, France. Apparatus for the continuous separation of solids from liquids. No. 1,382,056; June 21; v. 287; p. 440.
- Bonville, Amos, Mercer, Wis. Animal-trap. No. 1,370,512; Mar. 8; v. 284; p. 188.
- Bonza, Anthony, Felton, Del. Locking mechanism. No. 1,383,784; July 5; v. 288; p. 110.
- Bonzi, Davide, East Lyme, Conn. Refrigerator. No. 1,373,294; Mar. 29; v. 284; p. 889.
- Boode, Axel. (See Nelson, N. S., and Boode.)
- Booker, Clarence A., Dante, Va. Fluid-pump. No. 1,369,382; Feb. 22; v. 283; p. 632.
- Booker, Paul J., Parkerton, Wyo. Underwear. No. 1,369,959; Mar. 1; v. 284; p. 39.
- Bookhout, John J. (See Smith, P. W., and Bookhout.)
- Bookhout, John J. (See Smith, P. W., Bookhout, and Monce.)
- Boome, Alexander. (See Kramer, L., and Boome.)
- Boomer, George R., assignor of one-half to H. M. Mobbs, Spokane, Wash. Laundry-washing machine. No. 1,389,619; Sept. 6; v. 290; p. 12.
- Boomsliiter, Charles C., assignor of one-third to N. Kik, Grand Rapids, Mich. Changeable gear for automobiles. No. 1,379,675; May 31; v. 286; p. 884.
- Boon, Henry G., Appleton, and C. A. Fourness, assignors to Kimberly-Clark Company, Neenah, Wis. Sizing-tester. No. 1,391,041; Sept. 20; v. 290; p. 452.
- Boon, Wilfred L., North Attleboro, Mass. Adjustable drawing-board. No. 1,401,458; Dec. 27.
- Boone, Charles T., Minneapolis, Minn. Hose and faucet coupling. No. 1,369,162; Feb. 22; v. 283; p. 589.
- Boone, Daniel M., Harrisburg, Tex. Tire-tool. No. 1,376,070; Apr. 26; v. 285; p. 654.
- Boorum & Pease Company. (See Bardenheuer, William C., assignor.)
- Boorum and Pease Company. (See Jackson, Mark P., assignor.)
- Boorum Pease Company. (See Lewis, Harry B., assignor.)
- Boos, August N. E., New York, N. Y. Service-check and receipt. No. 1,393,489; Oct. 11.
- Boosh, John, and W. Kowaluk, Cleveland, Ohio. Stringed musical instrument. No. 1,401,865; Dec. 27.
- Booth, Earl C., assignor to Holcomb and Hoke Manufacturing Company, Indianapolis, Ind. Buttering device. No. 1,366,902; Feb. 1; v. 283; p. 4.
- Booth, Earl C., assignor to Booth Engineering Corporation, Indianapolis, Ind. Steering-gear attachment. No. 1,372,003; Mar. 15; v. 284; p. 595.
- Booth Electric Furnace Co., The. (See Booth, W. K., and Morris, assignors.)
- Booth Electric Furnace Co., The. (See Booth, William K., assignor.)
- Booth Electric Furnace Co., The. (See Hall, Julius R., assignor.)
- Booth Electric Furnace Co. (See Harper, Charles W., assignor.)
- Booth Electric Furnace Co., The. (See Morris, William L., assignor.)
- Booth Engineering Corporation. (See Booth, Earl C., assignor.)
- Booth Fisheries Company. (See Koehler, Carl W., assignor.)
- Booth, Harold S., and G. G. Marshall, Cleveland, Ohio. Recovering an element capable of forming a haloid from ores, minerals, &c., containing the same. No. 1,392,043; Sept. 27; v. 290; p. 729.
- Booth, Harold S., and G. G. Marshall, Cleveland, Ohio. Recovering an element capable of forming a haloid from ores, minerals, &c., containing the same. No. 1,392,044; Sept. 27; v. 290; p. 729.
- Booth, Harold S., and G. G. Marshall, Cleveland, Ohio. Recovering beryllium from ores, minerals, &c., containing the same. No. 1,392,045; Sept. 27; v. 290; p. 730.
- Booth, Harold S., Ithaca, N. Y., and G. G. Marshall, Cleveland, Ohio. Recovering beryllium from ores, minerals, and other materials. No. 1,392,046; Sept. 27; v. 290; p. 730.



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- Booth, Homer A., Pittsfield, Mass. Valve-lifter. No. 1,395,901; Nov. 1.
- Booth, Howard P., Montreal, Quebec, Canada. Molding-machine. No. 1,368,993; Feb. 15; v. 283; p. 516.
- Booth, Howard P., Montreal, Quebec, Canada. Fluid-valve. No. 1,400,411; Dec. 13.
- Booth, John R., Jr. (See Kern, Peter, assignor.)
- Booth, John W., Trenton, Ontario, Canada. Amplifier for sound-reproducing machines. No. 1,376,508; May 3; v. 286; p. 24.
- Booth, John W., Trenton, Ontario, Canada. Tone-arm. No. 1,385,358; July 26; v. 283; p. 640.
- Booth, Levis M., Plainfield, N. J. Feeding device for dry chemicals. No. 1,390,271; Sept. 13; v. 290; p. 235.
- Booth, Lionel B., Northwood, England. Apparatus for determining angular elevation or depression of distant objects. No. 1,392,263; Sept. 27; v. 290; p. 773.
- Booth, Lyman, Dixon, Ill. Resilient wheel. No. 1,367,010; Feb. 1; v. 283; p. 25.
- Booth, Robert E., East Tallassee, Ala. Supporting-link. No. 1,364,177; Jan. 4; v. 282; p. 25.
- Booth, Seth J., J. Terreault, and W. L. Burn, Montreal, Quebec, Canada. Annealing-oven. No. 1,364,694; Jan. 4; v. 282; p. 125.
- Booth, T. F., Co. (See Mullins, Fred J., assignor.)
- Booth, William H., New York, N. Y. Shade-bracket. No. 1,383,975; July 5; v. 288; p. 148.
- Booth, William K., assignor to The Booth Electric Furnace Co., Chicago, Ill. Furnace. No. 1,376,071; Apr. 26; v. 285; p. 654.
- Booth, William K., assignor to The Booth Electric Furnace Co., Chicago, Ill. Melting metal turnings, borings, &c. No. 1,380,767; June 7; v. 287; p. 84.
- Booth, William K., and W. L. Morris, assignors to The Booth Electric Furnace Co., Chicago, Ill. Electric furnace. No. 1,376,072; Apr. 26; v. 285; p. 654.
- Booth, William N., Detroit, Mich. Vehicle-wheel and forming the same. No. 1,368,234; Feb. 15; v. 283; p. 369.
- Booth, William N., assignor to Kelsey Wheel Company, Inc., Detroit, Mich. Vehicle-wheel rim. No. 1,368,235; Feb. 15; v. 283; p. 369.
- Booth, William T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,386,683; Aug. 9; v. 289; p. 214.
- Booth, William W., Toledo, Ohio. Supplementary handle for tools. No. 1,391,452; Sept. 20; v. 290; p. 536.
- Boothe, George N., Media, Pa. Food-holder for poultry, &c. No. 1,369,079; Feb. 22; v. 283; p. 573.
- Booty, Stanley S. (See Slack, Harry F., assignor.)
- Bopp, Amos. (See Forsyth, J. L., and Bopp.)
- Borba, Cesar A., San Francisco, Calif. Stapling-machine. No. 1,369,726; Feb. 22; v. 283; p. 699.
- Borchard, Robert W., assignor of one-half to J. J. Kane, Milwaukee, Wis. Method of and apparatus for forming molded hollow articles. No. 1,377,304; May 10; v. 286; p. 233.
- Borchardt, Frederick H., Oak Park, Ill. Infant food. No. 1,375,893; Apr. 26; v. 285; p. 620.
- Borchardt, Walter O., Austinville, Va., assignor to The New Jersey Zinc Company, New York, N. Y. Froth-breaking device. No. 1,376,073; Apr. 26; v. 285; p. 655.
- Borchers, Caesar C., Chicago, Ill. Pacifier or the like. No. 1,372,004; Mar. 22; v. 284; p. 595.
- Borchert, Charles A., and M. G. O'Neill, Beaver, Pa., assignors to Protected Seat Valve Company, Pittsburgh, Pa. Valve. No. 1,387,831; Aug. 16; v. 289; p. 495.
- Borchert, Fred L. (See Borchert, William and F. L.)
- Borchert, Ralph W., St. Louis, Mo. Motor. No. 1,384,009; July 5; v. 288; p. 156.
- Borchert, William and F. L., Rockford, Ill. Combined tag affixing and marking machine. No. 1,386,047; Aug. 2; v. 289; p. 17.
- Borden, Burton, Columbia, S. D. Article-carrier. No. 1,367,654; Feb. 8; v. 283; p. 210.
- Borden Company, The. (See Nonneman, Ira W., assignor.)
- Borden Company, The. (See Taylor, Burt E., assignor.)
- Bordier, William N., Dunlap, Mo. Shock-absorber. No. 1,384,040; July 12; v. 288; p. 211.
- Bordsen, Evander K. M., Wedderburn, Ore. Puverizer attachment for tractors. No. 1,398,668; Nov. 29.
- Bordwell, Lavern, New York, N. Y. Beater. No. 1,393,941; Oct. 18.
- Boreham, Ernest E. (See Howard, Maurice R., assignor.)
- Borelli, Dott. V., & Co., et al. (See Brusa, Giacomo, assignor.)
- Borello, Jose. (See Parodi, A., and Borello.)
- Borger, Henry E., assignor to Splitdorf Electrical Company, Newark, N. J. Circuit-breaker. No. 1,384,510; July 12; v. 288; p. 308.
- Borgerding, Henry J. and J. F., Oakland, Calif. Sample-case. No. 1,390,012; Sept. 6; v. 290; p. 91.
- Borgerding, Joseph F. (See Borgerding, Henry J. and J. F.)
- Borgeson, Charles A., San Francisco, Calif. Coupling. No. 1,375,822; Apr. 26; v. 285; p. 605.
- Borgeson, Oscar V., assignor of one-half to H. Schultz, Brooklyn, N. Y. Amusement device. No. 1,371,845; Mar. 15; v. 284; p. 508.
- Borghes, Joseph, and J. F. Stahley, Seattle, Wash. Automatic auto-jack. No. 1,369,610; Feb. 22; v. 283; p. 676.
- Borglum, Torvald M., Reedsport, Ore. Test-scale table. No. 1,376,997; May 3; v. 286; p. 117.
- Borgo, Edmondo M., Turin, Italy. Spring-fork for the front wheels of motorcycles and the like. No. 1,370,404; Mar. 1; v. 284; p. 123.
- Borje, Frank J., Lorain, Ohio, assignor to National Tube Company. Machine for feeding work into and out of welding-furnaces. No. 1,372,594; Mar. 22; v. 284; p. 709.
- Borland, Charles M., assignor of one-half to A. Haitt, Echo, Ore. Tractor push-rake. No. 1,383,184; June 28; v. 287; p. 708.
- Borland, James, Xenia, Ohio. Cushion. No. 1,372,270; Mar. 22; v. 284; p. 647.
- Borland, Walter S., Saskatoon, Saskatchewan, Canada. Window attachment. No. 1,373,709; Apr. 5; v. 285; p. 63.
- Borland, William G. (See Clark, Charles O., assignor.)
- Borman, Emil, Chicago, Ill. Pneumatic heel. No. 1,383,067; June 28; v. 287; p. 686.
- Bornemann, George C., et al. (See Briggs, John, assignor.)
- Bornhaupt, Florence, assignor to M. Levy, New York, N. Y. Reversible powder-puff. No. 1,374,903; Apr. 19; v. 285; p. 308.
- Bornhauser, Otto E. (See Schwer, G. A., and Bornhauser.)
- Bornman, Carl, assignor to AnSCO Company, Binghamton, N. Y. Camera. No. 1,365,083; Jan. 11; v. 282; p. 243.
- Boro, William A. (See Dragon, Jess, assignor.)
- Boros, John, Milwaukee, Ore., assignor to Perfection Tie Company, Portland, Ore. Necktie-holder. No. 1,400,858; Dec. 20.
- Borowski, Eugene. (See Drozd, Wicenty, assignor.)
- Borresen, Helge A., Marquette, Mich. Main-spring barrel for timepieces. No. 1,392,676; Oct. 4.
- Borrourghs, Joseph N., Oakland, Calif. Towel-holder. No. 1,379,848; May 31; v. 286; p. 843.
- Borst, Andrew J., Jr., Buffalo, N. Y. Vehicle. No. 1,374,352; Apr. 12; v. 285; p. 229.
- Borst, Andrew J., Jr., Buffalo, N. Y. Steam generator and superheater. No. 1,376,509; May 3; v. 286; p. 26.
- Borst, Andrew J., Jr., Buffalo, N. Y. Semitrailer. No. 1,383,381; July 5; v. 288; p. 26.
- Borst, Joseph F. and W., Brooklyn, N. Y. Brush for talking-machine records. No. 1,399,714; Dec. 6.
- Borst, Warren R., West Brighton, Staten Island, N. Y. Sewage treatment. No. 1,396,397; Nov. 8.
- Borst, William. (See Borst, Joseph F. and W.)
- Borst, William E., and C. C. Gillo, Grand Rapids, Mich. Apparatus for cooling molds of type-metal-slag-casting machines. No. 1,389,573; Sept. 6; v. 290; p. 3.
- Borstad, Gilbert, Starbuck, Minn. Harrow with cleaning attachment. No. 1,373,946; Apr. 5; v. 285; p. 111.
- Borzykowski, Benno, Cleveland, Ohio. The production and simultaneous conversion of articles obtained from solutions into their ultimate forms. No. 1,375,823; Apr. 26; v. 285; p. 606.
- Borzykowski, Benno, Paris, France. Production and simultaneous conversion of articles obtained from solutions into the ultimate forms. No. 1,375,824; Apr. 26; v. 285; p. 606.
- Borzykowski, Benno, Cleveland, Ohio. Production of threads. No. 1,401,943; Dec. 27.
- Bosanko, William. (See Fredel, M. M., and Bosanko.)
- Bosc, Louis P., Paris, France. Rotary duplicator. No. 1,388,139; Aug. 16; v. 289; p. 555.
- Bosch, Carl, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Compound of urea. No. 1,369,383; Feb. 22; v. 283; p. 632.
- Bosch, Carl, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Process and means relating to the production of ammonia. No. 1,386,760; Aug. 9; v. 289; p. 220.
- Bosch, Carl, A. Mittasch, and C. Beck, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of oxides of nitrogen. No. 1,379,387; May 24; v. 286; p. 756.
- Bosch, Carl, O. Schmidt, and A. Mittasch, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Catalyst and making same. No. 1,391,666; Sept. 27; v. 290; p. 652.
- Bosch, Frank B., Harrisburg, Pa. Laying bituminous pavement material. No. 1,366,711; Jan. 25; v. 282; p. 645.
- Bösch, Frederick W., Camden, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Steam-engine. No. 1,401,866; Dec. 27.
- Bösch, Frederick W., Camden, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Steam-engine. No. 1,401,867; Dec. 27.
- Bösch, Frederick W., Camden, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Steam-engine. No. 1,401,868; Dec. 27.
- Bosch, Pompein, Elgin, Ill. Boring-machine. No. 1,373,856; Apr. 5; v. 285; p. 92.
- Bosch, Pompein, Elgin, Ill. Engine-cylinder-burnishing tool. No. 1,373,857; Apr. 5; v. 285; p. 93.
- Bosch, Robert, Aktiengesellschaft. (See Schäfer, Max, assignor.)



*Alphabetical list of patentees—Continued.*

- Bosch, Robert, Aktiengesellschaft. (See Schäfer, M., and Kraus, assignors.)
- Bosch, Robert, Aktiengesellschaft. (See Steinhart, H., assignor.)
- Boschen, Herman C., Richmond, Va. Negotiable instrument. No. 1,372,397; Mar. 22; v. 284; p. 671.
- Bosick, Charles, Denver, Colo. Trench digging and cleaning shovel. No. 1,382,957; June 21; v. 287; p. 440.
- Bosky, Sadie, Brooklyn, N. Y. Brassière. No. 1,391,936; Sept. 27; v. 290; p. 707.
- Bosley, Allen E., St. Louis, Mo. Subradius-rod for auto mobiles. No. 1,366,354; Jan. 25; v. 282; p. 573.
- Bosley, D. W., Co., The. (See Wright, John G., assignor.)
- Bosmajian, George, Fresno, Calif. Tree-limb support. No. 1,389,952; Sept. 6; v. 290; p. 76.
- Boss, William, St. Paul, Minn. Device for sprouting seeds. No. 1,376,998; May 3; v. 286; p. 118.
- Bossart, Hans, Los Angeles, Calif. Aeroplane. No. 1,376,000; Apr. 26; v. 285; p. 640.
- Bossemeyer, William J., Cincinnati, Ohio. Carriage-light frame. No. 1,371,729; Mar. 15; v. 284; p. 486.
- Bossert, Aloisius J. (See Heil, E. R., and Bossert.)
- Bossert, Charles P., Milwaukee, Wis. Dispensing-valve. No. 1,374,980; Apr. 19; v. 285; p. 413.
- Bossert, William F., Utica, N. Y. Semaphore. No. 1,390,082; Sept. 6; v. 290; p. 106.
- Bosshard, Gustav A., assignor to Firm A.-G. Seeriet, Bleicherei, Filiale Arbon, Arbon, Switzerland. Improving cotton fabrics. No. 1,395,472; Nov. 1.
- Bosshard, Gustav A., assignor to the Firm A.-G. Seeriet, Bleicherei, Filiale Arbon, Arbon, Switzerland. Producing wool-like effects on cotton fabrics. No. 1,400,016; Dec. 13.
- Bosshard, Theodore, Brooklyn, N. Y. Waterproofing composition. No. 1,383,068; June 28; v. 287; p. 686.
- Bossolt, Charles L., assignor of one-half to J. C. Bossolt, Erie, Pa. Direction-indicator for motor-vehicles. No. 1,391,937; Sept. 27; v. 290; p. 707.
- Bossolt, John C. (See Bossolt, C. L., assignor.)
- Bossu, Pierre, assignor to Société Anonyme des Etablissements L. Blieriot, Paris, France. Electric commutator. No. 1,390,192; Sept. 6; v. 290; p. 127.
- Bossu, Pierre, Neuilly-sur-Seine, assignor to Société Anonyme des Etablissements L. Blieriot, Paris, France. Voltage-controlling mechanism. No. 1,396,552; Nov. 8.
- Bossu, Pierre, assignor to Société Anonyme des Etablissements L. Blieriot, Paris, France. Electric resistance. No. 1,400,410; Dec. 13.
- Bost, William D., and H. M. Miller, Los Angeles, Calif.; said Bost assignor to said Miller. Peeling fruits and vegetables. No. 1,394,138; Oct. 18.
- Bost, William D., and H. M. Miller, assignors, by mesne assignments, to said Miller, Los Angeles, Calif. Peeling tomatoes. No. 1,384,379; July 12; v. 288; p. 281.
- Bostain, Addison, East Florence, Ala. Wall-mold. No. 1,368,105; Feb. 8; v. 283; p. 296.
- Bostaph Engineering Corporation. (See Ramage, Alexander S., assignor.)
- Bostick, Joseph W. and C. H. Homer, Houston, Tex. Treatment of crude petroleum for purification. No. 1,380,863; June 7; v. 287; p. 103.
- Boston Auto Gage Company. (See Gregory, G. P., and MacKelvie, assignors.)
- Boston, Benjamin W., Pendleton, Ind. Windmill. No. 1,397,031; Nov. 15.
- Boston, John, assignor, by mesne assignments, to Thomas Carter & Sons, Inc., Newark, N. J. Strip-guide for sewing-machines. No. 1,391,876; Sept. 27; v. 290; p. 695.
- Boston Last Company. (See Dionne, Arthur A., assignor.)
- Boston Pencil Pointer Company. (See Wilson, Allen P., assignor.)
- Boston Piano Supply Company. (See Butler, James A., assignor.)
- Boston Pressed Metal Company. (See Needham, William H., assignor.)
- Boston Scale and Machine Co. (See Adams, A. A., and Emery, assignors.)
- Boston Scale and Machine Co. (See Emery, F. A., and Adams, assignors.)
- Boston Time Stamp Company. (See Levy, Joseph, assignor.)
- Bostrom, F. W. (See Westerlund, Charlie, assignor.)
- Bostrom, Otto J., E. E. Waltman, and R. F. Zingsheim, Rawlins, Wyo. Metallic railway cross-tie and rail-fastening. No. 1,364,067; Jan. 4; v. 282; p. 3.
- Bostwick, Rolla B., Duquesne, Pa. Vehicle-tire. No. 1,367,011; Feb. 1; v. 283; p. 25.
- Bostwick, Rolla B., Duquesne, Pa. Vehicle-tire. No. 1,367,856; Feb. 8; v. 283; p. 250.
- Boswell, David A., assignor of one-half to J. H. Kerr and one-half to H. P. Talbert, Indianapolis, Ind. Automobile steering control. No. 1,389,620; Sept. 6; v. 290; p. 12.
- Boswell, Fletcher O. (See Hampel, Albert C., and Boswell.)
- Boswell, Fletcher O., Philadelphia, Pa. Automobile-lock. No. 1,368,602; Feb. 15; v. 283; p. 441.
- Boswell, Fletcher O., Philadelphia, Pa. Automobile-lock. No. 1,395,220; Oct. 25.
- Boswell, Fletcher O., assignor to American Wheel Company, Philadelphia, Pa. Automobile-lock. No. 1,389,933; Sept. 6; v. 290; p. 76.
- Boswell, George G. F., Indianapolis, Ind. Shock-absorber. (Reissue.) No. 1,511,3; May 31; v. 286; p. 1009.
- Boswell, James G., Paradis, La. Apparatus for drying hay, grain, or the like. No. 1,370,513; Mar. 8; v. 284; p. 188.
- Bosworth, Cyrus M., Lakewood, and A. G. Boesel, Cleveland Heights, Ohio. Electric water-heater. No. 1,375,357; Apr. 19; v. 285; p. 485.
- Bosworth, George P., assignor, by mesne assignments, to Hemphill Manufacturing Company, Central Falls, R. I. Stocking-knitting machine. No. 1,377,459; May 10; v. 286; p. 263.
- Bosworth, George P., assignor, by mesne assignments, to Hemphill Manufacturing Company, Central Falls, R. I. Stocking-knitting machine for making antiraveling courses. No. 1,377,460; May 10; v. 286; p. 263.
- Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Glove and making same. No. 1,385,963; July 26; v. 288; p. 763.
- Bothne, Esther M. (See McLain, C. A., and Bothne.)
- Botnen, John J., Abercrombie, N. D. Confection-cone carrier. No. 1,367,174; Feb. 1; v. 283; p. 58.
- Botsford, Claude W., Los Angeles, Calif. Manufacturing gas for lighting or heating purposes from bituminous fuels. No. 1,385,167; July 19; v. 288; p. 527.
- Bott, Alice K., Cincinnati, Ohio. Corset. No. 1,397,570; Nov. 22.
- Bott, George R., New York, assignor to The Norma Company of America, Long Island City, N. Y. Joint for artificial limbs or the like. No. 1,365,654; Jan. 18; v. 282; p. 393.
- Bott, Jacob, Jamaica, N. Y. Wet-graphite distributor and polisher. No. 1,367,940; Feb. 8; v. 283; p. 265.
- Bott, John C., Dell Rapids, S. D. Rail tie and fastener. No. 1,395,172; Oct. 25.
- Bott, George R., Mount Vernon, N. Y. Mixing and aerating device. No. 1,399,740; Dec. 13.
- Bott, Joseph, assignor to Bastian Bros. Company, Rochester, N. Y. Wind-wheel. No. 1,379,439; May 24; v. 286; p. 765.
- Botta, Ferruccio. (See Arato, Achille, assignor.)
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifold-salesbook. No. 1,381,446; June 14; v. 287; p. 265.
- Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Manifold-salesbook. No. 1,381,447; June 14; v. 287; p. 265.
- Bottom, William G., Kansas City, Mo. Automatic fire-extinguishing apparatus. No. 1,379,615; May 31; v. 286; p. 873.
- Bottomley, Arthur L., assignor to F. H. Sadler Company, Attleboro, Mass. Soft-collar holder. No. 1,374,276; Apr. 12; v. 285; p. 214.
- Bottom, Victor R., assignor of one-half to J. S. McAleer, Philadelphia, Pa. Lock. No. 1,384,590; July 12; v. 288; p. 326.
- Botts, Raymond A., Hanford, Calif. Harvester for Egyptian corn, milo maize, and the like. No. 1,370,405; Mar. 1; v. 284; p. 123.
- Botwright, Frederick C., Philadelphia, Pa. Bag-handle hinge. No. 1,397,356; Nov. 15.
- Bouchard, Emile E., Burlington, Vt. Lubricating and protecting jacket for springs. No. 1,399,248; Dec. 6.
- Bouchard, Louis O., Philadelphia, Pa. Hat-trimming machine. No. 1,379,078; May 24; v. 286; p. 696.
- Bouchard, Urbain J., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for working uppers over lasts. No. 1,381,162; June 14; v. 287; p. 213.
- Bouchardon, Victor J. F., Lyon, France. Generator of high-frequency oscillations for wireless telegraphy. No. 1,373,710; Apr. 5; v. 285; p. 64.
- Bouché, William F., Lancaster, N. Y., assignor to Gould Coupler Company. Means for driving dynamos from car-axes. No. 1,400,793; Dec. 20.
- Boucher, Edmore N. (See Faith, S., and Boucher.)
- Boucher, Joseph A., Montreal, Quebec, Canada. Receipt-form. No. 1,383,596; July 5; v. 288; p. 70.
- Bouda, Bohumil, Austin, Minn. Apparatus for cleaning poultry. No. 1,372,595; Mar. 22; v. 284; p. 709.
- Boughton, Marcus D., Jefferson, N. Y. Delivery mechanism. No. 1,374,981; Apr. 19; v. 285; p. 413.
- Bouldin, Samuel L., Oswego, Kans. Train-coaler. No. 1,398,833; Nov. 29.
- Boulton, Percival R., Birmingham, England. Absorption apparatus for analyzing gases. No. 1,390,488; Sept. 13; v. 290; p. 278.
- Bound Brook Oil-less Bearing Company. (See Hickman, Francis, assignor.)
- Bourdeau, J. D., Detroit, Mich., and W. B. Fink, Washington, D. C., assignors to The Quaker Oats Company, Chicago, Ill. Food product. No. 1,381,858; June 14; v. 287; p. 242.
- Bourdeau, Leon N., Rock Island, Ill. Grease-cup. No. 1,393,879; Oct. 18.
- Bourdeaux, Bruno C. V., Evreux, France. Artificial eye. No. 1,379,741; May 31; v. 286; p. 896.
- Bourdelles, Emile A. L., assignor to Société Anonyme Des Etablissements Delaunay Belleville, St.-Denis, France. Small-arm. No. 1,367,453; Feb. 1; v. 283; p. 113.



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- Bourdellies, Emile A. L., assignor to Societe Anonyme Des Etablissements Delaunay Belleville, St. Denis, France. Automatic firearm. No. 1,382,058; June 21; v. 287; p. 440.
- Bourdellies, Emile A. L., Paris, France, assignor to Société Anonyme Des Etablissements Delaunay Belleville, St. Denis, France. Gas-operated machine-gun. No. 1,389,810; Sept. 6; v. 290; p. 50.
- Bourdet, André P. E., Paris, France. Apparatus with several tubes for treating pulverulent materials. No. 1,394,269; Oct. 18.
- Bourdon, Charles, Paris, France. Gas-purifier. No. 1,384,380; July 12; v. 288; p. 282.
- Boureau, Desiré V., Brooklyn, N. Y. Internal-combustion engine. No. 1,377,661; May 10; v. 286; p. 301.
- Bourgeois, Oliver J., Covington, Okla. Well-drilling bit. No. 1,400,794; Dec. 20.
- Bourgeois, Victor L. J., assignor of one-half to J. N. Dubois, Montreal, Quebec, Canada. Loading and unloading apparatus for vehicles. No. 1,391,607; Sept. 20; v. 290; p. 567.
- Bourke, Alexander M., London, England. Construction of ships, tanks, and the like. No. 1,390,013; Sept. 6; v. 290; p. 91.
- Bourn, Stephen W., Providence, R. I. Applying a coating fluid. No. 1,387,963; Aug. 16; v. 289; p. 520.
- Bourn, Stephen W., Providence, R. I. Surface-coating machine. No. 1,387,964; Aug. 16; v. 289; p. 521.
- Bourne, Alexander P., Barrington, R. I. Pneumatic spring. No. 1,373,711; Apr. 5; v. 285; p. 64.
- Bourne, Clifford A., Portland, Ore. Electric marking device. No. 1,394,965; Oct. 25.
- Bournous, George S., *et al.* (See Jones, Edward S., assignor.)
- Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Separable fastener. No. 1,367,350; Feb. 1; v. 283; p. 93.
- Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Turnbutton-fastener. No. 1,385,039; July 19; v. 288; p. 499.
- Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Window construction. No. 1,392,243; Sept. 27; v. 290; p. 769.
- Bourquin, Louis, New Orleans, La. Automobile-signal. No. 1,367,175; Feb. 1; v. 283; p. 58.
- Bourquin, Paul P., Philadelphia, Pa. Multiple-impression typewriter. No. 1,395,994; Nov. 1.
- Bourrieu, Albert, Ridgefield Park, N. J. Vibration-recorder. No. 1,367,941; Feb. 8; v. 283; p. 265.
- Bousfield, Charlie J., Bay City, Mich. Device for removing puppet-valves. (Reissue.) No. 15,162; July 26; v. 288; p. 765.
- Bousquet, Joseph M., Middlesex, Vt. Moistener. No. 1,369,384; Feb. 22; v. 283; p. 632.
- Boutell Manufacturing Company. (See Fish, Charles S., assignor.)
- Boutell, William H. (See Schumacher, E. L., and Boutell.)
- Boutelle, William H., Sturbridge, assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,372,596; Mar. 22; v. 284; p. 709.
- Boutelle, William H., assignor to American Optical Company, Southbridge, Mass. Trial-frame. No. 1,375,669; Apr. 26; v. 285; p. 578.
- Boutelle, William H., assignor to American Optical Company, Southbridge, Mass. Forming temple end pieces. No. 1,397,919; Nov. 22.
- Bouthilliet, E. (See Godien, Ephraim, assignor.)
- Bouton, Arthur A., Brooklyn, N. Y. Sewing-machine. No. 1,383,976; July 5; v. 288; p. 149.
- Boutte, John G., Houston, Tex. Vehicle-hoist. No. 1,398,959; Dec. 6.
- Bouvier, Leo P., Worcester, Mass. Self-serving table. No. 1,396,246; Nov. 8.
- Bouwmeester, Bernard J. (See Owen, I. J., and Bouwmeester.)
- Bowden, William C., Middle Village, N. Y. Rolling-machine for working plastic material. No. 1,380,632; June 7; v. 287; p. 58.
- Bovard, William M., assignor to N. D. Baker, Secretary of War, trustee, Washington, D. C. Gas-filter. No. 1,368,540; Feb. 15; v. 283; p. 430.
- Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Manufacturing rail-bonds. No. 1,394,604; Oct. 25.
- Bovee, Ransom Y., Maywood, Ill. Transmission-gearing. No. 1,368,476; Feb. 15; v. 283; p. 417.
- Bovee, Ransom Y., Maywood, Ill. Folding combination toilet article. No. 1,398,583; Nov. 29.
- Bovey, Sidney J. V., Chicago, Ill. Bumper for vehicles. No. 1,373,163; Mar. 29; v. 284; p. 863.
- Bovey, Thomas. (See Roberts, T. M., and Bovey.)
- Bovey, Thomas, Chicago, Ill. Automobile-heater. No. 1,400,518; Dec. 20.
- Bovy, Albert, Berchem-Ste-Agathe, near Brussels, Belgium. Manufacture of corrugated cardboard boxes having rounded corners. No. 1,368,236; Feb. 15; v. 283; p. 370.
- Bovy, John J., Red Wing, Minn. Map-holder. No. 1,396,553; Nov. 8.
- Bow, Edmund, Alameda, Calif. Seed-drill hopper and sowing mechanism. No. 1,371,343; Mar. 15; v. 284; p. 411.
- Bowden-Smith, Edward C., London, England. Valve. No. 1,392,294; Oct. 4.
- Bowden-Smith, Edward C., Brockenhurst, assignor, by mesne assignments, to The Scarab Oil Burning Company, Limited, London, England. Oil-fuel burners. No. 1,372,398; Mar. 22; v. 284; p. 671.
- Bowden, William C., Middle Village, N. Y. Press. No. 1,399,843; Dec. 13.
- Bowe, David W., Detroit, Mich. Clamp. No. 1,387,917; Aug. 16; v. 289; p. 512.
- Bowen Car Initial & Number Record Co. (See Gray, Dexter B., assignor.)
- Bowen, Clarence S., Pickens, S. C. Hydraulic pump. No. 1,377,871; May 10; v. 286; p. 342.
- Bowen, David R., assignor to Farrel Foundry & Machine Company, Ansonia, Conn. Rubber-mixer or like machine. No. 1,369,080; Feb. 22; v. 283; p. 573.
- Bowen, David R., assignor to Farrel Foundry & Machine Company, Ansonia, Conn. Rubber-cracker. No. 1,390,599; Sept. 13; v. 290; p. 301.
- Bowen, David R., and C. F. Schnuck, assignors to Farrel Foundry and Machine Company, Ansonia, Conn. Machine for treating rubber and similar material. No. 1,379,616; May 31; v. 286; p. 873.
- Bowen, David R., and C. F. Schnuck, assignors to Farrel Foundry and Machine Company, Ansonia, Conn. Machine for treating rubber and similar material. No. 1,398,765; Nov. 29.
- Bowen, David R., and C. F. Schnuck, assignor to Farrel Foundry and Machine Company, Ansonia, Conn. Machine for treating rubber and similar material. No. 1,400,934; Dec. 20.
- Bowen, Edgar W., Detroit, and R. Turner, Highland Park, assignors of D. M. Ferry & Company, Detroit, Mich. Display apparatus. No. 1,387,965; Aug. 16; v. 289; p. 521.
- Bowen, Eugene F., and E. J. Scott, Providence, R. I. Vending-machine. No. 1,389,811; Sept. 6; v. 290; p. 50.
- Bowen, James M., Cape May Court-House, N. J., assignor to S. L. Allen & Co., Inc. Agricultural implement. No. 1,373,868; Apr. 5; v. 285; p. 93.
- Bowen, Philip A., Lynn, Mass. Napkin-holder. No. 1,390,083; Sept. 6; v. 290; p. 106.
- Bowen Products Corporation. (See Bacon, Chester A., assignor.)
- Bowen, Richard, Cheltenham, assignor to Laminated Coal, Limited, London, England. Apparatus for the production of artificial fuel. No. 1,397,571; Nov. 22.
- Bowen, Richard, Cheltenham, assignor to Laminated Coal, Limited, London, England. Production of artificial fuel. No. 1,397,572; Nov. 22.
- Bowen, Richard E., Los Angeles, Calif. Railway-crossing. No. 1,381,787; June 14; v. 287; p. 330.
- Bowen, William E., East Orange, N. J. Garter-clasp. No. 1,375,770; Apr. 26; v. 285; p. 595.
- Bower, Abram L., Boyertown, Pa. Automatic train-controlling device. No. 1,384,231; July 12; v. 288; p. 251.
- Bower, Abram L., Boyertown, Pa. Automatic train-controlling device for preventing collisions. No. 1,399,100; Dec. 6.
- Bower, Frank W., Fowler, Ind. Stake-socket. No. 1,365,084; Jan. 11; v. 282; p. 244.
- Bower, George W., Schenectady, N. Y., assignor to General Electrical Company. Suspension for trolley-wires and the like. No. 1,378,519; May 17; v. 286; p. 518.
- Bower, James R., assignor to Adolphus Auto Rent Company, Dallas, Tex. Automobile ornament. No. 1,400,017; Dec. 13.
- Bower, Thomas F., Farmdale, Ohio. Road-building machine. No. 1,393,341; Oct. 11.
- Bowerman, Allen A., Hope Bay, British Columbia, Canada. Twisting-machine for yarns, cottons, and the like. No. 1,386,233; Aug. 2; v. 289; p. 54.
- Bowers, Charles D., New York, N. Y. Advertising device. No. 1,366,866; Jan. 25; v. 282; p. 676.
- Bowers, Clarence W., Heppner, Ore. Automobile lifting mechanism. No. 1,401,869; Dec. 27.
- Bowers, Frederick M., Chester, Pa. Helmet or mask. No. 1,399,602; Dec. 6.
- Bowers, George L., Newark, Ohio. Means for securing shoe-tongues and the like. No. 1,386,985; Aug. 9; v. 289; p. 275.
- Bowers, Henry A., Jamestown, N. Y. Magneto-contact-point protector. No. 1,365,085; Jan. 11; v. 282; p. 244.
- Bowers, John P., *et al.* (See Hansen, William A., assignor.)
- Bowers, Oscar L., assignor of one-half to A. J. Willbourn, Olive Branch, Ill. Baling-press. No. 1,369,612; Feb. 22; v. 283; p. 677.
- Bowers, Robert R., assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Side-delivery rake. No. 1,371,465; Mar. 15; v. 284; p. 436.
- Bowers, Thomas A., Boston, Mass. Ornamental device or pompon. No. 1,395,033; Oct. 25.
- Bowers, Thomas A., Boston, Mass. Manufacturing tufts and article derived therefrom. No. 1,396,159; Nov. 8.
- Bowers, Walter L. (See Kent, Charles E., assignor.)
- Bowes, John J., Jr., Pensacola, Fla. Hot-water and ice bag closure or stopper. (Reissue.) No. 15,033; Jan. 25; v. 282; p. 683.



- Bowes, Walter H., Stamford, Conn. Machine for post-marking and canceling mail. No. 1,365,886; Jan. 18; v. 282; p. 440.
- Bowes, Walter H., Greenwich, Conn. Adjustable feed and delivery plates and article-track. No. 1,367,794; Feb. 8; v. 283; p. 237.
- Bowes, Walter H., Greenwich, Conn. Machine for post-marking and canceling letters. No. 1,399,288; Dec. 6.
- Bowie, Annie M., Washington, D. C. Safety-holder for sparklers and the like. No. 1,374,812; Apr. 12; v. 285; p. 318.
- Bowker, William R., Coronado, Calif. Torpedo for transporting and firing explosives. No. 1,385,109; July 19; v. 288; p. 515.
- Bowker, William R., Coronado, Calif. Aeronautical appliance for transporting and firing explosives. No. 1,400,261; Dec. 13.
- Bowlby, Frank R., Cottonwood Falls, Kans. Railway-rail joint. No. 1,390,489; Sept. 13; v. 290; p. 278.
- Bowles, Harry M., St. Louis, Mo. Automobile-lock. No. 1,372,597; Mar. 22; v. 284; p. 409.
- Bowles, Jerre McP., Atlanta, Ga., assignor of one-third to G. M. Baruday, Washington, D. C. Marine propulsion. No. 1,400,036; Dec. 20.
- Bowles, William M., Shawnee, Okla. Vaporizer. No. 1,371,730; Mar. 15; v. 284; p. 486.
- Bowlby, Bruce F., Brampton, N. D. Magazine-loader. No. 1,391,453; Sept. 20; v. 290; p. 536.
- Bowlzer, Daniel H., East Cleveland, Ohio. Drinking-fountain. No. 1,366,055; Jan. 18; v. 282; p. 472.
- Bowman, Charles, Washington, D. C. Cloth-pounder. No. 1,398,061; Nov. 22.
- Bowman, Edward, Dubuque, Iowa. Adjustable ventilator-hood for automobiles. No. 1,387,584; Aug. 16; v. 289; p. 445.
- Bowman, Edwin L., Gardner, Mass. Amusement device. No. 1,396,247; Nov. 8.
- Bowman, Frederick J., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Ore-treating furnace. No. 1,399,046; Dec. 6.
- Bowman, George, assignor to B. G. R. Jack Company, Belfast, Ireland. Jacking apparatus for motor-cars. No. 1,368,688; Feb. 15; v. 283; p. 458.
- Bowman, Horace D., Salt Lake City, Utah. Spring-wheel. No. 1,376,795; May 3; v. 286; p. 78.
- Bowman, James H., Honolulu, Hawaii. Toothbrush. No. 1,384,936; July 19; v. 288; p. 478.
- Bowman, Joe M., Tipton, Iowa. Piston-groove-cleaning tool. No. 1,397,312; Nov. 15.
- Bowman, John H. A. D'O., assignor to Canadian File & Tool Works, Limited, Montreal, Quebec, Canada. Chemical process for reclaiming files, rasps, and the like. No. 1,384,550; July 12; v. 288; p. 317.
- Bowman, Levi M., and W. A. Smith; said Bowman assignor to E. R. Kemp, Tulsa, Okla. Oil-burner. No. 1,364,609; Jan. 4; v. 282; p. 108.
- Bowman, Levi M., assignor of one-half to W. A. Smith, one-fourth to L. M. Butts, and one-fourth to G. S. Berry, Tulsa, Okla. Electric clipper. No. 1,383,977; July 5; v. 288; p. 149.
- Bowman, Newton K., Canton, Ohio. Automatic mine-door. No. 1,374,547; Apr. 12; v. 285; p. 267.
- Bowman, Newton K., North Lawrence, Ohio. Wall-anchor. No. 1,396,398; Nov. 8.
- Bowman, Newton K., Canton, Ohio. Tool for splicing cables. No. 1,399,101; Dec. 6.
- Bowman, Robert H., assignor to The Firestone Tire & Rubber Co., Akron, Ohio. Resilient tire. No. 1,392,571; Oct. 4.
- Bowman, Robert L., Knoxville, Tenn. Elastic, automatic, adjustable blasting-shell. No. 1,398,292; Aug. 30; v. 289; p. 895.
- Bowman, Robert L., Knoxville, Tenn. Conductor for mine explosives. No. 1,395,791; Nov. 1.
- Bowman, Robert L., Knoxville, Tenn. Conductor for mine explosives. No. 1,395,792; Nov. 1.
- Bowman, Wade W., New York, N. Y. Towel-holder. No. 1,386,761; Aug. 9; v. 289; p. 230.
- Bowman, Walter H., Philadelphia, Pa. Artificial tooth. No. 1,386,762; Aug. 9; v. 289; p. 230.
- Bowmar, Gershen, assignor of one-half to W. E. Holder, Toronto, Ontario, Canada. Piston. No. 1,390,193; Sept. 6; v. 290; p. 128.
- Bowser, L. D. (See Dooley, William D., assignor.)
- Bowser, Leslie E., Hobart, Okla. Toy woodpecker. No. 1,379,521; May 24; v. 286; p. 781.
- Box, John V., Los Angeles, Calif., assignor of one-third to C. R. Little, and one-third to Mrs. W. P. Martin, Whittier, Calif. Rotary well-drilling head. No. 1,383,785; July 5; v. 288; p. 110.
- Boyan, Thomas J., Portsmouth, N. H. Port-screen. No. 1,364,695; Jan. 4; v. 282; p. 125.
- Boyce, Harrison H., Forest Hills, N. Y. Temperature-indicator for automobiles. No. 1,373,859; Apr. 5; v. 285; p. 93.
- Boyce, Harrison H., Forest Hills, N. Y. Temperature-indicating device for internal-combustion engines. No. 1,373,860; Apr. 5; v. 285; p. 94.
- Boyce, Harrison H., Forest Hills, N. Y. Instrument. No. 1,385,661; July 26; v. 288; p. 703.
- Boyce, John N., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Collapsible core. No. 1,397,073; Nov. 15.
- Boyce, Lillon B., Syracuse, N. Y. Faucet. No. 1,365,369; Jan. 11; v. 282; p. 299.
- Boyce, Ruben H., Glasco, Kans. Box-holder. No. 1,388,089; Aug. 16; v. 289; p. 545.
- Boyce, Theodore, *et al.* (See Corum, Adolphus H., assignor.)
- Boyce, Walter D., McGregor, Iowa. Pie-cutter. No. 1,371,195; Mar. 8; v. 284; p. 318.
- Boyce, William E., New York, N. Y. Article of merchandise. No. 1,393,608; Oct. 11.
- Boyd, Andrew C. (See Sawyer, W. H., and Boyd.)
- Boyd, Andrew C. (See Sawyer, Walter H., assignor.)
- Boyd, George W. F., Washington, D. C. Combination gas and steam power engine. No. 1,364,696; Jan. 4; v. 282; p. 125.
- Boyd, Harold A. (See Boyd, Thomas A., and H. A.)
- Boyd, Jesse B. (See Breakfield, Charles C., assignor.)
- Boyd, Littleton A., Illiopolis, Ill. Combined stepladder and extension-ladder. No. 1,374,548; Apr. 12; v. 285; p. 267.
- Boyd, Lyman, Canton, Ohio. Game-board. No. 1,383,185; June 28; v. 287; p. 708.
- Boyd, Peter, and A. M. Saunders, McKeesport, assignors to National Tube Company, Pittsburgh, Pa. Drill-tube. No. 1,364,478; Jan. 4; v. 282; p. 84.
- Boyd, Sanford S., Laurens, S. C. Underwear. No. 1,387,585; Aug. 16; v. 289; p. 446.
- Boyd, Thomas A. and H. A., Glasgow, Scotland. Doffing mechanism of spinning, twisting, and like frames. No. 1,369,613; Feb. 22; v. 283; p. 677.
- Boyd, Thomas A. and H. A., Glasgow, Scotland. Twisting and doubling machine. No. 1,384,041; July 12; v. 288; p. 212.
- Boyd, William A., New Haven, and R. H. Burns, West Haven, Conn. Can-opener. No. 1,370,943; Mar. 8; v. 284; p. 270.
- Boyd, William J. (See Powers, E. V., and Boyd.)
- Boyden, George A., Roland Park, Md., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Load-brake device. No. 1,400,656; Dec. 20.
- Boye, James H., Manufacturing Company. (See Boye, James H., assignor.)
- Boye, James H., Chicago, Ill. Key-holder. No. 1,364,240; Jan. 4; v. 282; p. 37.
- Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain-rod. No. 1,365,300; Jan. 11; v. 282; p. 286.
- Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Commodity-cabinet. No. 1,374,549; Apr. 12; v. 285; p. 268.
- Boye Needle Company, The. (See Carlson, Gustav A., assignor.)
- Boye Needle Mfg. Company, The. (See Carlson, Gustav A., assignor.)
- Boyer, Alexander B., Riverside, Ill., assignor to American Rotary Engine Co., Grand Rapids, Wis. Driving mechanism for rotary machines. No. 1,378,088; May 17; v. 286; p. 436.
- Boyer, Allen B., and O. Davisson, Trees, La. Baling apparatus. No. 1,383,069; June 28; v. 287; p. 686.
- Boyer, Charles T., Indianapolis, Ind. Collar-button. No. 1,368,423; Feb. 15; v. 283; p. 406.
- Boyer, Edwin S., Plainfield, N. J., assignor to American Hard Rubber Co., New York, N. Y. Lining metal tanks with hard rubber. No. 1,367,231; Feb. 1; v. 283; p. 607.
- Boyer, George A., Los Angeles, Calif. Splash oiling system. No. 1,370,274; Mar. 1; v. 284; p. 99.
- Boyer, Harry L., assignor to Joseph Stokes Rubber Company, Trenton, N. J. Storage-battery separator and producing same. No. 1,394,466; Oct. 18.
- Boyer, Harry O., Proberta, Calif. Lubricator. No. 1,375,648; Apr. 19; v. 285; p. 541.
- Boyer, Orin N., Long Beach, Calif. Fruit-grader. No. 1,386,549; Aug. 2; v. 289; p. 114.
- Boyer, Roy L., Madison, Wis. Belt-buckle. No. 1,375,894; Apr. 26; v. 285; p. 620.
- Boyer, William J., Wilmington, Del. Steering mechanism. No. 1,367,584; Feb. 8; v. 283; p. 197.
- Boykin, Burwell, Jr., Beaumont, Tex. Well-boring apparatus. No. 1,398,413; Nov. 29.
- Boylan, Gove S., Washington, D. C. Take-up mechanism for kinetoscopes. No. 1,377,112; May 3; v. 286; p. 140.
- Boylan, Michael, Omaha, Nebr. Vulcanizer. No. 1,385,518; July 26; v. 288; p. 674.
- Boyle, Daniel P. (See Boyle, James J., assignor.)
- Boyle, Frederick J. (See Siegel, F. W., Boyle, and Sipp.)
- Boyle, James J., assignor of one-half to D. P. Boyle, New York, N. Y. Penholder. No. 1,371,292; Mar. 15; v. 284; p. 400.
- Boyle, James L., Goodland, Kans. Steam-heated snowplow. No. 1,376,741; May 3; v. 286; p. 68.
- Boyle, James M., U. S. Army. Angle-measuring and surveying instrument. No. 1,366,308; Jan. 18; v. 282; p. 521.
- Boyle, John, & Company. (See Markert, Frederick E., assignor.)
- Boyle, John D., New Rochelle, N. Y. Powder-container. No. 1,371,017; Mar. 8; v. 284; p. 285.
- Boyle, John D., New Rochelle, N. Y. Powder-container. No. 1,377,113; May 3; v. 286; p. 140.
- Boyle, John E., Waterbury, Conn. Corner-stand. No. 1,374,633; Apr. 12; v. 285; p. 284.



## Alphabetical list of patentees—Continued.

- Boyle, John E., and D. A. Toal, Camden, N. J. Ship construction. No. 1,367,942; Feb. 8; v. 283; p. 265.
- Boyle, John P., and W. A. Inman, Chicago, Ill.; said Inman assignor to said Boyle. Ice-manufacturing apparatus. No. 1,397,498; Nov. 22.
- Boyle, John T. (See Hunt, David, assignor.)
- Boyle, Willis J., Sr., et al. (See Stephens, Samuel F., assignor.)
- Boyle, Willis J., Sr., and F. R. Dallmann, Los Angeles, Calif., said Dallmann assignor to said Boyle. Corrugating-machine for cans and other devices. No. 1,365,887; Jan. 18; v. 282; p. 440.
- Boynoff, Nathan, Webster City, Iowa. Polish for stoves and other articles. No. 1,397,397; Nov. 15.
- Boynton, George W., Watertown, Mass. Holder for automobile-licenses. No. 1,374,182; Apr. 12; v. 285; p. 195.
- Boynton, George W., Watertown, Mass. Apron for automobiles. No. 1,374,353; Apr. 12; v. 285; p. 229.
- Boysen, August, Houston, Tex. Serving-table. No. 1,391,755; Sept. 27; v. 290; p. 670.
- Boyter, Arthur J., Temple, Tex. Casing-elevator. No. 1,396,317; Nov. 8.
- Boyton, John C., and O. H. Nickerson, assignors to The Adapti Company, Cleveland, Ohio. Electric-light fitting. No. 1,393,075; Oct. 11.
- Boyls, Cecil H., Louisville, Ky. Garment-former. No. 1,392,907; Oct. 11.
- Boymn, Hans O. N., Wing, N. D. Closure for boxes and other receptacles. No. 1,376,670; May 3; v. 286; p. 54.
- Boz, Joseph D., Coshocton, Ohio. Attachment for squares. No. 1,399,685; Dec. 6.
- Bozarth, Edgar L., et al. (See Anderson, Charles H., assignor.)
- Bozek, Albert, Gebu, Wyo. Beet-harvester. No. 1,377,393; May 10; v. 286; p. 250.
- Bozeman, John W., Baltimore, Md., and J. T. Jones, Madras, Ga. Tank-filling valve. No. 1,368,834; Feb. 15; v. 283; p. 496.
- Bozied, Eugenie C., Salem, S. D. Windmill-wheel. No. 1,367,766; Feb. 8; v. 283; p. 232.
- Bozik, Lukas, Livingston, Ill. Furniture-caster. No. 1,391,363; Sept. 20; v. 290; p. 518.
- Bozung, Joseph A., and P. S. McMahon, Denver, Colo. Double compound power-applying machine. No. 1,392,295; Oct. 4.
- Bozzo, Pedro, Buenos Aires, Argentina. Machine for cutting cardboard strips for making matches. No. 1,395,473; Nov. 1.
- Brabant, John W., La Crosse, Wis. Discharge-chute. No. 1,388,696; Aug. 23; v. 289; p. 722.
- Brabant, John W., La Crosse, Wis. Mixing-machine. No. 1,391,454; Sept. 20; v. 290; p. 536.
- Brabant, William H., Sheboygan, Wis. Moisture-preventive composition. No. 1,381,788; June 14; v. 287; p. 330.
- Brace, Porter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making seamless tubing. No. 1,396,918; Nov. 15.
- Brace, Porter H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic operation of electrolytic cells. No. 1,396,919; Nov. 15.
- Brach, Frank V., Chicago, Ill. Detachable cuff. No. 1,391,094; Sept. 20; v. 290; p. 463.
- Bracke, Robert F., Chicago, assignor to C. B. Camp, Chicago, and L. A. Williams, Evanston, Ill., joint trustees. Vacuum-feed carburetor. No. 1,370,944; Mar. 8; v. 284; p. 271.
- Bracken, John W., Miami, Fla. Draft-coupling. No. 1,390,874; Sept. 13; v. 290; p. 356.
- Bracken, Stanley. (See Jillard, A. G., and Bracken.)
- Brackett, Francis W., Colchester, England. Valve of pumps. No. 1,378,760; May 17; v. 286; p. 565.
- Brackett, John C., assignor to Middlemiss and Brackett, Milwaukee, Wis. Shoveling and loading machine. No. 1,371,293; Mar. 15; v. 284; p. 401.
- Brackett, John C., Chicago, Ill., assignor to Middlemiss and Brackett, Milwaukee, Wis. Shoveling and loading machine. No. 1,371,344; Mar. 15; v. 284; p. 411.
- Brackett, John C., Chicago, Ill., assignor to Middlemiss and Brackett, Milwaukee, Wis. Shoveling and loading machine. No. 1,371,345; Mar. 15; v. 284; p. 411.
- Brackett, Ralph T. (See Anderson, A. H., and Brackett.)
- Braconier, Clarence A., Ypsilanti, Mich. Bellows-actuated switch. No. 1,381,789; June 14; v. 287; p. 330.
- Bradburn, Luman H., Eureka, Mont. Pipe-protector. No. 1,371,143; Mar. 8; v. 284; p. 309.
- Bradbury, Clifford C., assignor to A. L. Payton, Chicago, Ill. Automatic fuel-feed system for carbureters. No. 1,364,471; Jan. 4; v. 282; p. 84.
- Bradbury, Clifford C., Rochester, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Telephone system. No. 1,377,555; May 10; v. 286; p. 280.
- Bradbury, Edward G., Columbus, Ohio. Game. No. 1,381,164; June 14; v. 287; p. 213.
- Bradbury, George J., Washington, D. C. Cuff-link. No. 1,370,779; Mar. 8; v. 284; p. 240.
- Braddick, Bernard L., San Diego, Calif. Dough-roll and rolling-pin. No. 1,398,621; Nov. 29.
- Braddy, Clyde E., assignor to Wyoming Thresher Company, Pinebluff, Wyo. Straw rack. No. 1,386,048; Aug. 2; v. 289; p. 17.
- Braddy, Lewis P., San Francisco, Calif. Safety device. No. 1,383,786; July 5; v. 288; p. 110.
- Braden, William A., assignor of one-half to J. R. Yates, Cleveland, Ohio. Match-box. No. 1,371,731; Mar. 15; v. 284; p. 487.
- Braden, William A., assignor of one-half to T. H. Eickhoff, Cleveland, Ohio. Track construction. No. 1,398,932; Nov. 29.
- Brader, John A., Allentown, Pa. Steering-wheel lock. No. 1,364,068; Jan. 4; v. 282; p. 4.
- Bradford, Andrew J., Denver, Colo. Direction-indicator. No. 1,366,867; Jan. 25; v. 282; p. 677.
- Bradford, Bernard M., and J. F. Le Gere, Hope Mills, N. C. Tethering pin or stake. No. 1,385,859; July 26; v. 288; p. 743.
- Bradford, Charles M. (See Bunker, D. W., and Bradford.)
- Bradford, Charles M., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe. No. 1,386,684; Aug. 9; v. 289; p. 214.
- Bradford, Charles M., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Softening apparatus. No. 1,388,844; Aug. 30; v. 289; p. 806.
- Bradford Dyers' Association Limited. (See Thornber, John, assignor.)
- Bradford, Louise L., Allston, Mass. Bust-pad holder. No. 1,387,586; Aug. 16; v. 289; p. 446.
- Bradford, Robert H., Salt Lake City, Utah. Metallurgical process. No. 1,368,885; Feb. 15; v. 283; p. 496.
- Bradford, Wallace K., Los Angeles, Calif. Self-adjusting caster. No. 1,373,648; Apr. 5; v. 285; p. 52.
- Bradford, William D., Sewickley, Pa. Box for pouring steel ingots. No. 1,398,584; Nov. 29.
- Bradham, C. D., et al. (See Comstock, Francis M., assignor.)
- Bradish, A. G., and Son. (See Bliss, George H., assignor.)
- Bradley, Albert E., East McKeesport, Pa. Advertising-card. No. 1,365,451; Jan. 11; v. 282; p. 315.
- Bradley, Andrew J., New York, N. Y. Stencil-character punch and making same. No. 1,378,520; May 17; v. 286; p. 518.
- Bradley, Arthur W. (See Fenderson, Benjamin F., assignor.)
- Bradley, Charles, Denver, Colo. Railway-metal-tie appliance. No. 1,387,462; Aug. 16; v. 289; p. 420.
- Bradley, Charles E., assignor to The Goodyear's Metallic Rubber Shoe Company, Montclair, N. J. Manufacturing rubber articles. No. 1,367,731; Feb. 8; v. 283; p. 226.
- Bradley, Charles F., Hobart, Ind. Antislip device for pistons. No. 1,393,490; Oct. 11.
- Bradley, Charles S., New York, N. Y. Production of carbon. No. 1,396,018; Nov. 8.
- Bradley, Charles S., assignor to American Cellulose Chemical Manufacturing Company, Limited, New York, N. Y. Production of ether. No. 1,385,040; July 19; v. 288; p. 499.
- Bradley, Eber R., Hood River, Oreg. Gage and guide for press-platens. No. 1,385,169; July 19; v. 288; p. 527.
- Bradley, Frederick E. (See Thomas, C. W., and Bradley.)
- Bradley, Harry L., assignor of one-half to L. Bradley Milwaukee, Wis. Lavatory. No. 1,385,604; July 26; v. 288; p. 691.
- Bradley, James H., Denton, Mont. Toy railway. No. 1,367,232; Feb. 1; v. 283; p. 70.
- Bradley, James K., Cleveland Heights, assignor to The National System of Bakeries Co., Cleveland, Ohio. Baking-oven. No. 1,385,662; July 26; v. 288; p. 703.
- Bradley, Jessie C., Oakland, Calif. Auxiliary heating-plate. No. 1,391,166; Sept. 20; v. 290; p. 478.
- Bradley, John W., Buffalo, N. Y. Molder's gagger. No. 1,368,689; Feb. 15; v. 283; p. 459.
- Bradley, Linn, East Orange, N. J. Apparatus for the electrical treatment of gases. No. 1,400,795; Dec. 20.
- Bradley, Linn, East Orange, N. J., assignor to Research Corporation, New York, N. Y. Precipitator for hot gases. No. 1,379,897; May 31; v. 286; p. 925.
- Bradley, Lynde. (See Bradley, Harry L., assignor.)
- Bradley, Lynde, Milwaukee, Wis. Resistor element for electric-current controllers and making the same. No. 1,370,728; Mar. 8; v. 284; p. 231.
- Bradley, Parker R., East Orange, N. J. Fireproofing Aircraft parts. No. 1,372,478; Mar. 22; v. 284; p. 686.
- Bradley, Paul P., and C. E. Lindsey, Leeton, Mo. Railway switch and signal. No. 1,370,780; Mar. 8; v. 284; p. 240.
- Bradley, Robert A., Merrittton, Ontario, Canada. Truck. No. 1,368,886; Feb. 15; v. 283; p. 496.
- Bradley, Ross E., Roland Park, Md. Billet-casting. No. 1,393,195; Oct. 11.
- Bradley, Thomas, Trinidad, assignor of one-half to W. Childs, Starkville, Colo. Burial-case. No. 1,401,037; Dec. 20.
- Bradley, William H., assignor to The Automatic Metal Products Company, Springfield, Ohio. Metal-working machine. No. 1,390,978; Sept. 20; v. 290; p. 439.
- Bradnick, John H., New Haven, Conn. Self-lubricating piston for air-pumps. No. 1,376,857; May 3; v. 286; p. 91.
- Bradnick, John H., New Haven, Conn. Fuse. No. 1,396,988; Nov. 15.
- Bradner, Hosea T. (See Lees, Ernest J., assignor.)
- Bradshaw, Albert C., Simmons, Tex. Well-drilling machine. No. 1,369,614; Feb. 22; v. 283; p. 677.



- Bradshaw, Arthur F., Bieher, Calif. Check-protecting method. No. 1,395,943; Nov. 1.
- Bradshaw, George B., Stamford, Conn. Producing phenols. No. 1,398,998; Dec. 6.
- Bradshaw, Granville E., assignor to A. B. C. Motors Limited, Walton-on-Thames, England. Motorcycle-frame and the like. No. 1,368,541; Feb. 15; v. 283; p. 430.
- Bradshaw, Granville E., assignor to A. B. C. Motors (1920) Limited, Hershham, Walton-on-Thames, England. Internal-combustion-engine cylinder. No. 1,371,732; Mar. 15; v. 284; p. 487.
- Bradshaw, John H. (See Stroup, George C., assignor.)
- Bradshaw, Richard, Montreal, Quebec, Canada. Bed-bottom fabric. No. 1,367,012; Feb. 1; v. 283; p. 26.
- Bradshaw, Richard, Montreal, Quebec, Canada. Combined bed and seat. No. 1,367,013; Feb. 1; v. 283; p. 26.
- Bradshaw, Richard, Montreal, Quebec, Canada. Spring mattress or cushion. No. 1,369,004; Feb. 22; v. 283; p. 558.
- Bradshaw, Richard, Montreal, Quebec, Canada. Folding couch-bed. No. 1,369,385; Feb. 22; v. 283; p. 632.
- Bradshaw, Samuel H. (See Brooks, Edward M., assignor.)
- Bradshaw, William M., Wilkinsburg, and C. A. Boddie, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,400,018; Dec. 13.
- Bradt, Gustave H. (See Claussen, M., and Bradt.)
- Bradt, Harold J., Pontiac, Mich. Mold structure. No. 1,375,771; Apr. 26; v. 285; p. 596.
- Bradway, Chattin, New York, N. Y. Adjustable car for children. No. 1,389,854; Sept. 6; v. 290; p. 59.
- Brady, Edward J., assignor to The U. G. I. Contracting Company, Philadelphia, Pa. Heat-value indicator for illuminating-gas. No. 1,370,945; Mar. 8; v. 284; p. 271.
- Brady, Enoch J., Burkburnett, Tex. Water-motor. No. 1,388,018; Aug. 16; v. 289; p. 531.
- Brady, Henry. (See Brady, H., and Hilsinger, assignors.)
- Brady, Henry, Bloomfield, and A. W. Hilsinger, Orange, N. J., assignors to Henry Brady, Inc. Feeding mechanism for box-making machines. No. 1,370,514; Mar. 8; v. 284; p. 188.
- Brady, Horace L., Los Angeles, Calif. Fish-grapple. No. 1,393,076; Oct. 11.
- Brady, James G., Chicago, Ill. Trolley-guide. No. 1,371,294; Mar. 15; v. 284; p. 401.
- Brady, James H. (See Cozatt, Walter R., assignor.)
- Brady, James H., et al. (See Koch, J. H., and Larsen, assignors.)
- Brady, James T., assignor of one-half to J. C. Cole, El Dorado, Ark. Car-door latch and opener. No. 1,370,515; Mar. 8; v. 284; p. 188.
- Brady, John B., Somerset, Md. Memorandum device. No. 1,373,591; Apr. 5; v. 285; p. 41.
- Brady, John F., Colorado Springs, Colo. Railway-crossing. No. 1,399,289; Dec. 6.
- Brady, Levi E., St. Louis, Mo. Device for playing games. No. 1,367,585; Feb. 8; v. 283; p. 197.
- Brady, Levi E., St. Louis, Mo. Folding container and fastening means therefor. No. 1,371,219; Mar. 15; v. 284; p. 386.
- Brady, Meredith D., assignor to M. E. Stevings, Indiana, Pa. Push-rod. No. 1,390,272; Sept. 13; v. 290; p. 235.
- Brady, Samuel H., Reno, Nev. Clamp for broken springs. No. 1,384,591; July 12; v. 288; p. 326.
- Braestrup, John C., East Liberty, Pa. Reinforced concrete floating structure. No. 1,371,846; Mar. 15; v. 284; p. 509.
- Braf, Gerhard, New York, N. Y. Hemmer. No. 1,371,600; Mar. 15; v. 284; p. 462.
- Brager, Bernard, Brooklyn, N. Y. Wardrobe-fixture. No. 1,370,275; Mar. 1; v. 284; p. 99.
- Bragg, Gilbert A., Thomson, Nev., assignor, by mesne assignments, to Texas Gulf Sulphur Company, Bay City, Tex. Recovery of sulfur from its ores. No. 1,374,422; Apr. 12; v. 285; p. 242.
- Bragg, Gilbert A., Thomson, Nev., assignor to Metals Research Company. Hydrometallurgy of copper. No. 1,395,755; Nov. 1.
- Braham, Joseph M. (See Hetherington, H. C., and Braham.)
- Brahmer, Leland F., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. No. 1,393,401; Oct. 11.
- Brainard, George C., East Cleveland, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Producing and uniting heads to barrels. No. 1,387,640; Aug. 16; v. 289; p. 457.
- Brainard, Osceola D., Great Falls, Mont. Automatic gage. No. 1,389,432; Aug. 30; v. 289; p. 923.
- Brainard, William S., Rochester, assignor of one-half to J. L. Meader, Gonic, N. H. Door-lock. No. 1,397,074; Nov. 15.
- Braine, Bancroft G., New York, N. Y., assignor to The Rail Joint Company. Making step-joints. No. 1,394,708; Oct. 25.
- Brainerd, Frank E., Stony Creek, Conn. Paving-block. No. 1,379,440; May 24; v. 286; p. 765.
- Brainerd, Kenneth, Rochester, N. Y. Fan. No. 1,373,480; Apr. 5; v. 285; p. 20.
- Brainerd, Leigh D., Chicago, Ill. Electric lantern. No. 1,380,091; May 31; v. 286; p. 963.
- Brainin, Solomon. (See Helzman, H., and Brainin.)
- Brais, Joseph F., Providence, R. I. Picker-check for looms. No. 1,366,514; Jan. 25; v. 282; p. 606.
- Brake, Archibald and R. K., Toronto, Ontario, Canada. Headlight for vehicles. No. 1,395,699; Nov. 1.
- Brake, Richard K. (See Brake, Archibald and R. K.)
- Braley, Charles L. (See Waream, C. E., and Braley.)
- Braley, Charles L., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Collar-shaping machine. No. 1,380,331; May 31; v. 286; p. 1008.
- Braley, Charles L., assignor to The American Laundry Machinery Co., Cincinnati, Ohio. Neckband-expanding device. No. 1,381,058; June 7; v. 287; p. 141.
- Braley, Charles L., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing-machine. No. 1,397,202; Nov. 15.
- Braley, Charles L., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Tandem attachment for ironing-presses. No. 1,398,834; Nov. 29.
- Braley, Charles L., and G. N. Link, Cincinnati, assignors to The American Laundry Machinery Company, Norwood, Ohio. Heating mechanism for presses. No. 1,387,039; Aug. 9; v. 289; p. 286.
- Braley, Charles L., and C. E. Waream, assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Collar, cuff, and neckband press. No. 1,392,296; Oct. 4.
- Braley, Charles L., and S. Prestwich, assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Safety attachment for pressing-machines. No. 1,395,666; Nov. 1.
- Braman, Harold A., Providence, R. I. Fire-extinguisher. No. 1,366,630; Jan. 25; v. 282; p. 629.
- Bramberry, Harry M., Norfolk, Va. Metallic piston-packing. No. 1,382,465; June 21; v. 287; p. 518.
- Bramberry, Harry M., assignor to Piston Research Corporation, Norfolk, Va. Metallic piston-packing. No. 1,396,620; Nov. 8.
- Brambley, Frederick M., Brea, Calif. Fishing-tool. No. 1,384,988; July 19; v. 288; p. 489.
- Brammer, Harry, Leeds, England. Driving and other belts. No. 1,382,888; June 28; v. 287; p. 652.
- Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Company. Dash-lamp. No. 1,398,313; Nov. 29.
- Bramming, Carl, Chicago, Ill., assignor to Accessories Manufacturing Company. Instrument-board lamp. No. 1,400,208; Dec. 13.
- Brampton Brothers. (See Yoxall, H. S., and Richardson, assignors.)
- Bramson, Mogens L., Stafford, England. Spring, particularly for use in percussion-tools. No. 1,400,019; Dec. 13.
- Branagan, John J., McKees Rocks, Pa. Rail-clamp. No. 1,373,592; Apr. 5; v. 285; p. 41.
- Branan, John E. W., Winnipeg, Manitoba, Canada. Water-wheel. No. 1,367,532; Feb. 8; v. 283; p. 187.
- Branch, Charles S., Hammond, Ind. Cigarette-forming device. No. 1,376,074; Apr. 26; v. 285; p. 655.
- Branch, Harry C. (See Leece, B. M., and Branch.)
- Branch, Turner, New York, N. Y. Folding car-step. No. 1,364,697; Jan. 4; v. 282; p. 125.
- Branciforti, Vincenzo, New York, N. Y. Method of and apparatus for the preservation of bodies after burial. No. 1,365,639; Jan. 11; v. 282; p. 351.
- Branco, Michael, Norristown, Pa. Wheel-lock. No. 1,388,322; Aug. 23; v. 289; p. 649.
- Brand, Charles A., Roseburg, Ore. Stand for packing fruits. No. 1,382,950; June 28; v. 287; p. 663.
- Brand, Charles F., Wheeling, W. Va. Snap-movement valve mechanism. No. 1,395,551; Nov. 1.
- Brand, Frank H., Elmwood Place, Ohio. Stove. No. 1,381,790; June 14; v. 287; p. 330.
- Brand, George P., New York, N. Y. Action for pneumatic musical instruments. No. 1,373,593; Apr. 5; v. 285; p. 41.
- Brand, Philip, New York, N. Y. Shaper and form-holder for hats. No. 1,372,668; Mar. 29; v. 284; p. 764.
- Brandenberger, Jacques E., Neuilly-sur-Seine, France. Artificial textile fabric and its manufacture. No. 1,394,270; Oct. 18.
- Brandenburg, Francis C., Piqua, Ohio. Tool for dressing emery-wheels. No. 1,387,040; Aug. 9; v. 289; p. 286.
- Brandenburg, Francis C., Piqua, Ohio. Cutter for emery-wheel-dressing tools. No. 1,401,666; Dec. 27.
- Brandenburg, George A., St. Francis, Kans. Attachment for tape-measures. No. 1,380,184; May 31; v. 286; p. 980.
- Brandenburger, John A. (See McKelvey, L. F., and Brandenburger.)
- Brandenstein, M. J., & Co. (See Burns, Willford E., assignor.)
- Brandes, Arthur, Berne, Switzerland. Sounding-board for grand pianofortes, pianofortes, and the like. No. 1,364,541; Jan. 4; v. 282; p. 96.
- Brandes, Victoria S., Middletown, N. Y. Window-mop. No. 1,367,293; Feb. 1; v. 283; p. 82.
- Brandt, Andrew G., Scranton, Pa. Pool-table. No. 1,387,345; Aug. 9; v. 289; p. 346.
- Brandt Cashier Company. (See Madelbaum, M. H., and Webster, assignors.)
- Brandt, Edmund S. R., Newport, R. I. Torpedo. No. 1,388,918; Aug. 30; v. 289; p. 820.



*Alphabetical list of patentees—Continued.*

- Brandt, Edmund S. R., Newport, R. I. Torpedo. No. 1,394,271; Oct. 18.
- Brandt, Edward, Honolulu, Hawaii. Nut-lock. No. 1,368,106; Feb. 8; v. 283; p. 296.
- Brandt, Edward J., Watertown, Wis. Coin-delivery apparatus. No. 1,401,133; Dec. 27.
- Brandt, Fokko H. G., assignor to The Brandt & Krell Engineering Company, Kansas City, Kans. Shorer. No. 1,372,005; Mar. 22; v. 284; p. 596.
- Brandt, Henry E., Stillwater, Minn. Powder-distributor. No. 1,368,477; Feb. 15; v. 283; p. 417.
- Brandt, Henry E., assignor to Dobbins Manufacturing Company, North St. Paul, Minn. Air-charging pump for sprayers. No. 1,395,086; Oct. 25.
- Brandt & Krell Engineering Company, The. (See Brandt, Fokko H. G., assignor.)
- Brandt, Paul H., assignor to The Teagle Company, Cleveland, Ohio. Ignition-generator. No. 1,367,586; Feb. 8; v. 283; p. 197.
- Brandt, William H., Hubbard, Iowa. Closure device for egg-crates and the like. No. 1,401,236; Dec. 27.
- Brandwein, Jacob M., New York, N. Y. Calculating-machine. No. 1,371,847; Mar. 15; v. 284; p. 509.
- Brane, Edward F., Sr., Elgin, Ill. Making tire-fillers. No. 1,389,093; Aug. 30; v. 289; p. 856.
- Branigan, Clifford G., New York, N. Y. Auxiliary fuel-tank. No. 1,382,407; June 21; v. 287; p. 506.
- Brennan, William J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,388,845; Aug. 30; v. 289; p. 805.
- Brannberg, Art F., et al. (See Duncan, John N., assignor.)
- Brannigan, George T., assignor to The Connecticut Web and Buckle Company, Bridgeport, Conn. Clasp-stud. No. 1,387,230; Aug. 9; v. 289; p. 322.
- Bransky, Oscar E., assignor to Standard Oil Company, Whiting, Ind. Purification of hydrocarbons. No. 1,396,399; Nov. 8.
- Branson, Frank E., Toronto, Ontario, Canada. Direction-indicator for automobiles. No. 1,371,346; Mar. 15; v. 284; p. 411.
- Brant, Ellis G. (See Nielsen, N. B., and Brant.)
- Brant, Gilmore, W., Canton, Ohio. Rail-joint box. No. 1,386,685; Aug. 9; v. 289; p. 214.
- Brant, Jacob A., Reading, Pa. Bottle-holder. No. 1,386,392; Aug. 2; v. 289; p. 84.
- Brant, Paul, Bristol, Ind., and H. T. Wilson, Petoskey, Mich.; said Wilson assignor of his entire right to V. N. Brant, Bristol, Ind. Leather-making. No. 1,378,213; May 17; v. 286; p. 459.
- Brant, Victor N. (See Brant, P., and Wilson, assignors.)
- Brantigan, Willard E., Avery, Idaho. Balancing-relay. No. 1,392,742; Oct. 4.
- Brasco Manufacturing Company. (See Hester, George C., assignor.)
- Braselton, Chester H. (See Gilkey, L. L., and Braselton.)
- Braselon, Chester H., assignor to The Willys-Overland Company, Toledo, Ohio. Fuel-feeding system. No. 1,367,454; Feb. 1; v. 283; p. 113.
- Brasen, Axel, Astoria, N. Y. Milling-cutter. No. 1,381,059; June 7; v. 287; p. 142.
- Brasher, Philip, New York, N. Y. Protecting objects from wave action. No. 1,391,992; Sept. 27; v. 290; p. 719.
- Brasseur, Charles L. A. Orange, N. J. Half-tone screen. No. 1,374,813; Apr. 12; v. 285; p. 318.
- Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Sheet-feeding device. No. 1,371,068; Mar. 8; v. 284; p. 295.
- Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Starting and speed-controlling device. No. 1,388,449; July 23; v. 289; p. 675.
- Brassington, Arthur F., Port Richmond, N. Y. Chimney cap or ventilator. No. 1,380,882; June 7; v. 287; p. 107.
- Brassington, William B., Port Richmond, N. Y. Valve. No. 1,379,388; May 24; v. 286; p. 756.
- Brassington, William B., Port Richmond, N. Y. Valve. No. 1,379,389; May 24; v. 286; p. 756.
- Brassler, George F., Whitestone, N. Y. Milk-bottle lock and retainer. No. 1,388,090; Aug. 16; v. 289; p. 54.
- Braft, Charles E., and G. Fluck, assignors to Continental Can Company Inc., Syracuse, N. Y. Can-end-feeding device. No. 1,387,098; Aug. 9; v. 289; p. 298.
- Brauch, Oscar. (See Smith, Edwin L., assignor.)
- Brauchi, Ernst, St. Gallen, Switzerland. Book-holder. No. 1,385,663; July 26; v. 288; p. 703.
- Brauer, Otto H. J., Mahanomen, Minn. Attachment for filing-cabinets. No. 1,382,466; June 21; v. 287; p. 518.
- Braun, Andrew J., and H. G. Hoffman, Atchison, Kans. Combination-lock. No. 1,366,868; Jan. 25; v. 282; p. 677.
- Braun, Carl A., Munich, assignor to H. M. Lachmann, R. G. Lachmann, and G. H. Lachmann, Berlin, Germany. Producing cellulose. No. 1,387,441; Aug. 9; v. 289; p. 366.
- Braun, Carl F., San Francisco, Calif. Heat-exchanger. No. 1,376,135; Apr. 26; v. 285; p. 666.
- Braun, Charles J., and C. G. Janson, Oakland, Calif. Bunk. No. 1,385,900; July 26; v. 288; p. 751.
- Braun Company, The. (See Braun, William F. H., assignor.)
- Braun, Frank, Brooklyn, N. Y. Brush. No. 1,371,601; Mar. 15; v. 284; p. 462.
- Braun, William F. H., Philadelphia, Pa. Meat-slicer. No. 1,366,764; Jan. 25; v. 282; p. 656.
- Braun, William F. H., assignor to The Braun Company, Philadelphia, Pa. Slicing-machine. No. 1,397,158; Nov. 15.
- Brauner, Pincus. (See Rosen, L. W., and Brauner.)
- Brauner, Pincus, and E. Metzner, New York, N. Y. Abrasive roller. No. 1,374,052; Apr. 5; v. 285; p. 131.
- Bräuning, Wilhelm, assignor to Deutsche Werke Aktien-gesellschaft, Berlin, Germany. Firearm. No. 1,401,579; Dec. 2.
- Braunschweig, Fred W., Milwaukee, Wis. Aeroplane. No. 1,379,390; May 24; v. 286; p. 757.
- Braunsdorf, George W., New York, N. Y. Piano-action. No. 1,368,107; Feb. 8; v. 283; p. 296.
- Braunsdorf, William, New York, N. Y. Ticket-holder. No. 1,390,979; Sept. 20; v. 290; p. 439.
- Brauser, Otto H., and M. H. Oakes, assignors to The Waterize Chemical and Manufacturing Company, Akron, Ohio. Waterproofing composition. No. 1,399,724; Dec. 6.
- Brawner, Henry N., Jr., Washington, D. C. Door-latch. No. 1,374,053; Apr. 5; v. 285; p. 131.
- Bray, David, Shipley, England. Carding-engine and like machine. No. 1,369,776; Mar. 1; v. 284; p. 5.
- Bray, Herbert P., Finner, England. Attaching tubes to headers, chambers, and the like. No. 1,384,989; July 19; v. 288; p. 489.
- Bray Metal Hardening Co. (See Bray, Nelson H., assignor.)
- Bray, Nelson H., San Francisco, Calif., assignor to Bray Metal Hardening Co. Treatment of rails, switch-points, frogs, and crossings. No. 1,395,474; Nov. 1.
- Brayton, Harold M., U. S. Army. Illuminating-shell. No. 1,366,555; Jan. 25; v. 282; p. 615.
- Brazeau, Pierre, Racine, Wis. Locking-rail for automobiles. No. 1,375,553; Apr. 19; v. 285; p. 523.
- Breakfield, Charles C., assignor of one-half to J. B. Boyd, Allensville, Ky. Deadlock for end drop-gates. No. 1,395,629; Nov. 1.
- Breakless Staybolt Company, The. (See McKay, R. J., and Cooper, assignors.)
- Brearley, Harry. (See Johnson, L., and Brearley.)
- Brecht, Carl F., Indianapolis, Ind. Retaining means for frames. No. 1,388,697; Aug. 23; v. 289; p. 722.
- Breckenridge, Francis C., Providence, R. I., assignor to American Thermophane Company, Boston, Mass. Transmitter. No. 1,377,144; May 3; v. 286; p. 146.
- Bredin, Gordon C., Galt, Ontario, Canada. Gasolene-valve. No. 1,398,999; Dec. 6.
- Bredlik, Vladimir. (See Schrader, L. F., Roberts, and Bredlik.)
- Bredlik, Vladimir, and L. C. Whiton, Jr., New York, N. Y. Extraction of fatty matter from garbage and other fat-containing materials. No. 1,372,479; Mar. 22; v. 284; p. 686.
- Breed, Charles W., Western Springs, Ill. Switch-stand. No. 1,380,037; May 31; v. 286; p. 952.
- Breed, Dale L., Ticonderoga, N. Y. Boiler-cleaning apparatus. No. 1,365,149; Jan. 11; v. 282; p. 256.
- Breeding, Delson, Tulsa, Okla. Control head for oil-wells. No. 1,372,399; Mar. 22; v. 284; p. 671.
- Breen, Harold L., Hatton, N. D. Machine for treating grain, &c. No. 1,396,621; Nov. 8.
- Breen, Thomas E., Philadelphia, Pa., assignor to Dexter Folder Company, Pearl River, N. Y. Paper-feeding machine. No. 1,382,951; June 28; v. 287; p. 664.
- Breer, Carl. (See Jacobsen, C. H., and Breer.)
- Breerwood, Charles H., Philadelphia, Pa. Refractory material and making the same. No. 1,380,700; June 7; v. 287; p. 71.
- Breerwood, Charles H., Philadelphia, Pa., assignor to Coplay Cement Manufacturing Company. Making dolomite bricks. No. 1,380,701; June 7; v. 287; p. 71.
- Breese, Charles O., Portsmouth, Ohio. Round rim-bound top for tables. No. 1,396,554; Nov. 8.
- Breese, Charles P., Norfolk, Va. Manufacturing packings-rings. No. 1,368,887; Feb. 15; v. 283; p. 497.
- Breese, Robert P., New York, N. Y. Toy tank-car. No. 1,373,649; Apr. 5; v. 285; p. 52.
- Breeze, Alfred B., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Ball-seat. No. 1,401,107; Dec. 20.
- Brehio, Charles L., Worcester, Mass. Washing-machine. No. 1,382,268; June 21; v. 287; p. 479.
- Breining, Harold W. (See Dority, R., Ijams, and Breining.)
- Breitenbach, Derek S., Washington, D. C. Rheostat. No. 1,386,150; Aug. 2; v. 289; p. 38.
- Breitenstein, Albert F., assignor to The Geometric Tool Co., New Haven, Conn. Die-head for cutting taper and straight threads. No. 1,396,989; Nov. 15.
- Breitenwischer, Alvin A., and G. A. Howland, Detroit, Mich., said Breitenwischer assignor to said Howland. Electrolyte. No. 1,371,466; Mar. 15; v. 284; p. 436.
- Breitholtz, Sigrid, New York, N. Y. Composition of matter. No. 1,388,019; Aug. 16; v. 289; p. 531.
- Breitung, Edward N. (See Pick, Alfred, assignor.)
- Breitung, Edward N., New York, N. Y. Antiskidding device for vehicle-wheels. No. 1,391,667; Sept. 27; v. 290; p. 652.



*Alphabetical list of patentees—Continued.*

- Breitweiser, Bert E., Wichita, Kans. Detachable tire-protector. No. 1,393,196; Oct. 11.
- Bremberg, Axel, Glasgow, Scotland. Hydraulic recoil apparatus for ordnance. No. 1,398,172; Nov. 22.
- Bremberg, Axel, and A. Banks, Glasgow, Scotland. Recoil apparatus for ordnance. No. 1,385,301; July 19; v. 288; p. 552.
- Bremer, Edwin H., Freeport, Ill. Grain-loader. No. 1,374,423; Apr. 12; v. 285; p. 243.
- Bremner, Henry, Broomhill, Glasgow, Scotland. Calking-machine. No. 1,400,138; Dec. 13.
- Breneman, William P., and H. G. Rowell, Auburn, Me. Mop-holder. No. 1,374,814; Apr. 12; v. 285; p. 318.
- Brengelman, Charles A. (See Roser, Jeremiah, assignor.)
- Brenizer, Orson W., assignor of one-fifth to A. V. Groupe, Philadelphia, Pa. Cable-support. No. 1,373,164; Mar. 29; v. 284; p. 863.
- Brenizer, Orson W., assignor of one-fifth to A. V. Groupe, Philadelphia, Pa. Cable-support. No. 1,373,165; Mar. 29; v. 284; p. 863.
- Brenizer, Orson W., assignor of one-fifth to A. V. Groupe, Philadelphia, Pa. Cable-support. No. 1,373,166; Mar. 29; v. 284; p. 863.
- Brenkert, Joseph W., San Diego, Calif. Street-traffic direction-signaling device. No. 1,394,966; Oct. 25.
- Brennan, John F., Williamsport, Pa. Tire-carrier. No. 1,366,240; Jan. 18; v. 282; p. 509.
- Brennan, John S., Milwaukee, Wis. Valve for oil-stove reservoirs. No. 1,376,858; May 3; v. 286; p. 91.
- Brennan, John S., Milwaukee, Wis. Fuel-reservoir. No. 1,376,859; May 3; v. 286; p. 91.
- Breunan, Michael E., Hudson, N. Y. Chin-support. No. 1,397,499; Nov. 22.
- Brennan, Thomas, Jr., assignor to Moline Plow Company, Moline, Ill. Automatic gear-throw-out mechanism for grain-drills or the like. No. 1,394,663; Oct. 25.
- Brennan, William F., Collinsville, Ill. Efficiency-table. No. 1,394,405; Oct. 18.
- Brennan, William F., Collinsville, Ill. Efficiency-table. No. 1,399,000; Dec. 6.
- Brenner, D. C. (See Trabue, William, assignor.)
- Brenner, Henry, New York, N. Y. Cap for valve-stems. No. 1,379,676; May 31; v. 286; p. 884.
- Brenner, Joseph A., Hanover, Pa. Timer for washing-machines. No. 1,395,034; Oct. 25.
- Brentano, John J., St. Paul, Ore. Shoe-holding stand. No. 1,392,393; Oct. 4.
- Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Company, Bridgeport, Conn. Can and can-cover feeding device for can-heading machines. No. 1,367,455; Feb. 1; v. 283; p. 114.
- Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Co., Bridgeport, Conn. Can-heading machine. No. 1,369,005; Feb. 22; v. 283; p. 559.
- Brenzinger, Julius, Fairfield, assignor to The Max Ams Machine Company, Bridgeport, Conn. Can-heading machine. No. 1,390,490; Sept. 13; v. 290; p. 278.
- Brenzinger, Julius, Fairfield, Conn. Can-cover-lining machine. No. 1,390,491; Sept. 13; v. 290; p. 278.
- Brenzinger, Julius, Fairfield, Conn., assignor to The Max Ams Machine Company, New York, N. Y. Can-heading machine. No. 1,400,796; Dec. 20.
- Brereton, John W., deceased; by Robert K. Brereton, executor, Athlone, Ireland. Pneumatic shock-absorber. No. 1,398,933; Nov. 29.
- Brereton, Robert K., executor. (See Brereton, John W.)
- Breslauer, Adolph, executor. (See Cohen, Mortimer J.)
- Bresnahan, Thomas M., Washington, D. C. Automobile-window attachment. No. 1,388,091; Aug. 16; v. 289; p. 546.
- Bressler, Regina N., New York, N. Y. Inflating-valve. No. 1,381,700; June 14; v. 287; p. 313.
- Bressler, Robert E., Hammond, assignor to O. F. Jordan Company, East Chicago, Ind. Railway-spreader. No. 1,376,510; May 3; v. 286; p. 25.
- Bressler, Robert E., Hammond, assignor to O. F. Jordan Company, East Chicago, Ind. Railway motor-car. No. 1,388,236; Aug. 23; v. 289; p. 631.
- Bresson, Henry J., Detroit, Mich. Flushing apparatus. No. 1,396,400; Nov. 8.
- Bretch, Edward, assignor to The Advance Electric Company, St. Louis county, Mo. Electric motor. No. 1,394,535; Oct. 25.
- Brett, Thomas A., Pittsburg, Calif. Direction-indicator for motor-vehicles. No. 1,388,795; Aug. 23; v. 289; p. 742.
- Bretthauer, John H., Westchester, N. Y. Operating sounders. No. 1,386,763; Aug. 9; v. 289; p. 230.
- Brettner, Rudolf, Newark, N. J. Cuff-link. No. 1,376,075; Apr. 26; v. 285; p. 655.
- Brettschneider, Christ. (See Kraklau, W. B., and Brettschneider.)
- Brettschneider, Friedrich, Raitz, Moravia. Manufacture of bricks. No. 1,395,173; Oct. 25.
- Breuer, Eduard, Pilsen, Austria. Pneumatic tire. No. 1,396,697; Nov. 8.
- Breuer, Vladimir, New York, N. Y. Burial-case. No. 1,366,869; Jan. 25; v. 282; p. 677.
- Breul, Richard A., Bridgeport, Conn. Miter-square. No. 1,374,815; Apr. 12; v. 285; p. 319.
- Breul, Richard A., Bridgeport, Conn. Miter-square. No. 1,374,816; Apr. 12; v. 285; p. 319.
- Breuning, Eugen O., Hoboken, N. J. Controlling device for phonographs. No. 1,373,994; Apr. 5; v. 285; p. 121.
- Brevig, Johannes H. (See Andersen, W. G., and Brevig.)
- Brewer, Basil, Cleveland, Ohio. Paper-measuring attachment for printing-presses. No. 1,391,042; Sept. 20; v. 290; p. 453.
- Brewer, Edward C., Seattle, Wash. Invalid-bed table. No. 1,386,151; Aug. 2; v. 289; p. 38.
- Brewer, Governor L., Kent City, Mich. Spark-plug. No. 1,369,386; Feb. 22; v. 283; p. 632.
- Brewer, John W. (See Robbins, William V., assignor.)
- Brewer, Johnson, Rice, Tex. Flour-sifter. No. 1,390,334; Sept. 13; v. 290; p. 247.
- Brewer, Joseph, New York, N. Y. Wire and drill gage. No. 1,389,486; Aug. 30; v. 289; p. 934.
- Brewer, Lester P. (See Lochhead, E. C., and Brewer.)
- Brewer, Oscar Z., Spokane, Wash. Timing mechanism. No. 1,378,318; May 17; v. 286; p. 479.
- Brewer, Robert W. A., San Francisco, Calif. Tractor-wheel. No. 1,367,943; Feb. 8; v. 283; p. 265.
- Brewington, Philip J., Temple, Tex. Animal-trap. No. 1,373,594; Apr. 5; v. 285; p. 42.
- Brewster, Charles W., New York, N. Y., assignor to The Brewster-Goldsmith Corporation Inc. Spark-plug. No. 1,390,014; Sept. 6; v. 290; p. 92.
- Brewster-Goldsmith Corporation, The. (See Brewster, Charles W., assignor.)
- Brewster, Henry, New York, N. Y. License-plate holder. No. 1,383,973; July 5; v. 288; p. 149.
- Brewster, Theodore J., Perth Amboy, N. J. Process of nitrating benzol. No. 1,380,185; May 31; v. 286; p. 980.
- Brewster, Theodore J., Perth Amboy, N. J. Making nitrophenolic compounds. No. 1,380,186; May 31; v. 286; p. 980.
- Brewton, Philip, Mobile, Ala. Shoestrapping attachment or fastening device. No. 1,368,690; Feb. 15; v. 283; p. 459.
- Briant Specialty Company. (See Grannis, Herbert C., assignor.)
- Briant Specialty Company. (See Sando, Briant, assignor.)
- Briasco Manufacturing Company. (See Michaels, Robert, assignor.)
- Brice, Herbert E., Toronto, Ontario, Canada. Weather-strip for doors. No. 1,381,963; June 21; v. 287; p. 423.
- Brichacek, Anton E. (See Schmid, Gerald, and J. Brichacek, and Tully.)
- Bricher, Manuel, Pocatello, Idaho. Wrench. No. 1,387,346; Aug. 9; v. 289; p. 347.
- Brick, Lillian B., executrix. (See Brick, Samuel E.)
- Brick, Samuel E., deceased, Salina, Kans.; L. B. Brick, executrix. Bookbinding-gum. No. 1,389,574; Sept. 6; v. 290; p. 3.
- Brick, Samuel E., deceased, Salina, Kans.; L. B. Brick, executrix. Waterproof gum. No. 1,389,575; Sept. 6; v. 290; p. 3.
- Brickenstein, John H. (See Morrison, William, assignor.)
- Bridge, Alexander C., Lachine, Quebec, Canada. Spring lock-washer. No. 1,374,054; Apr. 5; v. 285; p. 131.
- Bridge, John A., Larimer, assignor of one-eighth to L. A. Bridge and one-eighth to C. C. Ponitz, North Irwin, Pa. Rail-joint chair. No. 1,385,426; July 26; v. 288; p. 654.
- Bridge, Lawrence A., et al. (See Bridge, John A., assignor.)
- Bridgeport Brass Company. (See Clark, Walter R., assignor.)
- Bridgeport Brass Company. (See Limont, Alexander W., assignor.)
- Bridges, Earl F., and C. K. Ward, Lincoln, Nebr. Water-check for ditches. No. 1,374,817; Apr. 12; v. 285; p. 319.
- Bridges, Edward G., assignor to Lynch Glass Machinery Company, Anderson, Ind. Mold-clamp for glass-forming machines. No. 1,398,670; Nov. 29.
- Bridges, Elzias B., Remmel, Ark. Gin-saw filer. No. 1,397,075; Nov. 15.
- Bridges, Henry P., Baltimore, Md. Sound-producing device. No. 1,367,176; Feb. 1; v. 283; p. 58.
- Bridges, Joseph E., Independence, Mo. Meat-tenderer. No. 1,400,413; Dec. 13.
- Bridges, Josiah S., Chicago, Ill. Dental impression-tray. No. 1,374,183; Apr. 12; v. 285; p. 197.
- Bridges, Lewis B., Brooklyn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,375,358; Apr. 19; v. 285; p. 485.
- Bridges, Rob R., Cameron, W. Va. Composition for refinishing blemished varnished wood surfaces. No. 1,394,803; Oct. 25.
- Bridges, Robert L., Lake Charles, La. Rotary automatic valve-controlling mechanism. No. 1,387,760; Aug. 16; v. 289; p. 481.
- Bridges, Wiley B., Texarkana, Ark. Roller-bearing car-wheel. No. 1,375,554; Apr. 19; v. 285; p. 623.
- Bridges, William C., North Easton, Mass. Velocipede. No. 1,395,552; Nov. 1.
- Bridgman, Percy W. (See Emerson, C. P., and Bridgman.)
- Bridgman, Percy W., Cambridge, Mass. Vibration-absorbing mounting. No. 1,377,556; May 10; v. 286; p. 281.
- Bridgwater, Herbert E., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,375,772; Apr. 26; v. 285; p. 596.
- Bridgwater, Herbert E., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,388,164; Aug. 23; v. 289; p. 616.
- Bridwell, Douglass V. (See Price, C. C., and Bridwell.)



*Alphabetical list of patentees—Continued:*

- Bridwell, Louis H. (See Karraz, I. S., and Bridwell.)  
 Bridwell, William E., Los Angeles, Calif. Locality-finder for maps and the like. No. 1,389,293; Aug. 30; v. 289; p. 896.  
 Brieche, Ambrosius, Brooklyn, N. Y., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,368,424; Feb. 15; v. 283; p. 406.  
 Bried, Julien A., Oakland, Calif. Rolling screen. No. 1,395,475; Nov. 1.  
 Bried, Julien A., Oakland, Calif., assignor to Meese & Gottfried Company. Friction-clutch. No. 1,389,855; Sept. 6; v. 290; p. 60.  
 Bried, Julien A., Oakland, assignor of one-half to S. L. Rogers, San Francisco, Calif. Construction of pulley and friction-wheel lagging. No. 1,391,238; Sept. 20; v. 290; p. 493.  
 Brierley, Frank, Manchester, assignor to Chain Roller Bearing Company Limited, Stockport, England. Roller-bearing. No. 1,386,986; Aug. 9; v. 289; p. 275.  
 Bridgen, Burt A., East Cleveland, assignor of one-half to F. R. Bill, Cleveland, Ohio. Copying and enlarging camera. No. 1,400,412; Dec. 13.  
 Brigger, William G., Washington, D. C. Water-motor. No. 1,370,003; Mar. 1; v. 284; p. 47.  
 Briggs, Abel C., Wilmington, Ohio. Reinforcement for concrete structures. No. 1,367,294; Feb. 1; v. 283; p. 82.  
 Briggs, Arthur J., Syracuse, assignor to Remington Typewriter Company, Ithaca, N. Y. Typewriting-machine. No. 1,368,017; Feb. 8; v. 283; p. 279.  
 Briggs, Charles A. (See Cooper, Hamilton A., assignor.)  
 Briggs, Ella E., St. Louis, Mo. Attachment for typewriters. No. 1,389,419; Aug. 30; v. 289; p. 921.  
 Briggs, Frank A. (See Pierce, Harry, assignor.)  
 Briggs, James, Hollings Hill, Esholt, England. Antiskid device. No. 1,381,060; June 7; v. 287; p. 142.  
 Briggs, Jay, Hoopeston, Ill. Control for automatic crossing-gates. No. 1,367,684; Feb. 8; v. 283; p. 216.  
 Briggs, John, assignor of one-third to G. C. Bornemann and one-third to R. Berkenkamp, San Francisco, Calif. Multiple-disk phonograph. No. 1,395,035; Oct. 25.  
 Briggs, John F., and C. W. Palmer, Spondon, near Derby, England, assignors to American Cellulose and Chemical Manufacturing Company Limited. Dyeing fibers, threads, or fabrics. No. 1,398,357; Nov. 29.  
 Briggs, Robert. (See McReynolds, W. A., and Briggs.)  
 Briggs, Stephen F., and E. N. Jacobi, assignors to Briggs & Stratton Company, Milwaukee, Wis. Lock-switch. No. 1,377,145; May 3; v. 286; p. 146.  
 Briggs & Stratton Company. (See Briggs, S. F., and Jacobi, assignors.)  
 Briggs & Stratton Company. (See Briggs, Stephen F., assignor.)  
 Briggs & Stratton Company. (See Smith, Reuben S., assignor.)  
 Briggs & Stratton Company. (See Soreng, Edgar M., assignor.)  
 Briggs, Stephen F., assignor to Briggs & Stratton Company, Milwaukee, Wis. Regulator. No. 1,399,741; Dec. 13.  
 Briggs, William E., Davison, Mich. Automobile power attachment. No. 1,373,295; Mar. 29; v. 284; p. 889.  
 Brigham, Charles G., and W. H. Hamilton, Toledo, Ohio; said Hamilton assignor to said Brigham. Sectional building. No. 1,366,888; Jan. 25; v. 282; p. 681.  
 Brigham, Edwin T., Kansas City, Mo., assignor to J. Rouso, Los Angeles, Calif. Towel-rack. No. 1,371,295; Mar. 15; v. 284; p. 401.  
 Brigham, Edwin T., Kansas City, Mo., assignor to J. Rouso, Los Angeles, Calif. Towel-rack. No. 1,378,214; May 17; v. 286; p. 459.  
 Brigham, Edwin T., Kansas City, Mo., assignor to J. Rouso, Los Angeles, Calif. Towel-rack. (Reissue.) No. 15,147; July 12; v. 288; p. 356.  
 Brigham, Henry M. (See Leslie, E. A., and Brigham.)  
 Brigham, Herbert O., Providence, R. I. Convertible service system. No. 1,369,387; Feb. 22; v. 283; p. 632.  
 Brigham, William M., Newark, N. J. Prick-punching tool. No. 1,386,152; Aug. 2; v. 289; p. 38.  
 Bright, Claude H., Jr., Memphis, Tenn. Combined stopper and cleaning device. No. 1,394,139; Oct. 18.  
 Bright, Claude H., Jr., Memphis, Tenn. Numbering-machine. No. 1,396,248; Nov. 8.  
 Bright, Martin C., Indianapolis, Ind. Fuel-control system for explosion-engines. No. 1,374,983; Apr. 19; v. 285; p. 413.  
 Brightman, Samuel D. (See Rosenthal, S., and Brightman.)  
 Brignall, Richard H., et al. (See Curtis, O. D., assignor.)  
 Brille, Alfred, Casper, Wyo. Tank. No. 1,400,345; Dec. 13.  
 Briles, Larkin, Lake City, assignor to J. E. Leonard, Davis Creek, Calif. Wrench. No. 1,373,861; Apr. 5; v. 285; p. 94.  
 Briles, Larkin, Lake City, Calif. Orchard-ladder. No. 1,381,397; June 14; v. 287; p. 256.  
 Brillhart, Samuel B., New York, N. Y. Railway-truck. No. 1,388,508; Aug. 23; v. 289; p. 685.  
 Brill, J. G., Company, The. (See Adams, Walter S., assignor.)  
 Brill, J. G., Company, The. (See Brooks, James A., assignor.)  
 Brill, J. G., Company, The. (See Henry, George E., assignor.)  
 Brill, J. G., Company. (See Latshaw, Elmer, assignor.)  
 Brill, J. G., Company, The. (See Pearson, Henry, assignor.)  
 Brill, J. G., Company, The. (See Reid, Sylvester H., assignor.)  
 Brill, J. G., Company, The. (See Reider, Christian H., assignor.)  
 Brill, J. G., Company, The. (See Shipper, Isaac D., assignor.)  
 Brillhart, William M., York, Pa. Fuse-holder. No. 1,364,976; Jan. 11; v. 282; p. 223.  
 Brillhart, William M., York, Pa. Knife-switch. No. 1,364,977; Jan. 11; v. 282; p. 224.  
 Brilliant, Abraham, Boston, Mass. Compound tool for watchmakers. No. 1,389,119; Aug. 30; v. 289; p. 861.  
 Brindle, Richard G., assignor of one-half to W. W. Reece, Chicago, Ill. Testing device. No. 1,384,886; July 19; v. 285; p. 467.  
 Brindle, Richard G., and A. H. Flint, Chicago, Ill., assignors to Corn Products Refining Company. Apparatus for recovering heat and solid particles in suspension from a drying-gas. No. 1,366,712; Jan. 25; v. 282; p. 645.  
 Brindley, Oliver. (See Ross, B. G., and Brindley.)  
 Bringman, George W., Cleveland, Ohio. Automobile signal-lamp. No. 1,381,701; June 14; v. 287; p. 314.  
 Brink, Carl A., Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Winding apparatus. No. 1,383,186; June 28; v. 287; p. 708.  
 Brinkman, Adolph. (See Brinkman, Carl F. and A.)  
 Brinkman, Carl F. and A., Milwaukee, Wis. Automatic jack for vehicles. No. 1,373,549; Apr. 5; v. 285; p. 33.  
 Brinkman, Louis H., Glenridge, N. J. Pipe-bending. No. 1,389,856; Sept. 6; v. 290; p. 60.  
 Brinkman, Louis H., Glen Ridge, N. J., assignor to Titeflex Metal Hose Corporation. Flexible tube. No. 1,387,231; Aug. 9; v. 289; p. 322.  
 Brinkman, Louis H., Glen Ridge, and W. H. Fulton, Irvington, and H. Shellmer, Newark, N. J., assignors to Titeflex Metal Hose Corporation. Apparatus for making tubes. No. 1,383,187; June 28; v. 287; p. 708.  
 Brinley, William, and W. Collins, Benton, Ill. Coal-washer. No. 1,378,521; May 17; v. 286; p. 518.  
 Brintnall, Thomas M., Oakland, assignor of one-half to W. H. Brintnall, Los Angeles, Calif. Bank-vault flooring. No. 1,369,960; Mar. 1; v. 284; p. 39.  
 Brintnall, William H. (See Brintnall, Thomas M., assignor.)  
 Brinton, William C., Jr., assignor, by mesne assignments, to Philbrin Corporation, Kennett Square, Pa. Electric condenser. No. 1,393,077; Oct. 11.  
 Brintzenhofs, Otto, Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company Inc. Switch for electric vacuum-cleaners. No. 1,386,836; Aug. 9; v. 289; p. 245.  
 Brion, Adolph E. (See Rosen, L. W., and Brauner, assignors.)  
 Brion, Harry O., assignor to A. G. Cash, Rochester, N. Y. Center-testing device. No. 1,395,087; Oct. 25.  
 Brisacher, John, Toronto, Ontario, Canada. Eyeglass-mounting. No. 1,370,626; Mar. 8; v. 284; p. 211.  
 Briscoe Devices Corporation. (See Briscoe, Frank, assignor.)  
 Briscoe, Frank, Jackson, assignor, by mesne assignments, to Briscoe Devices Corporation, Pontiac, Mich. Protected die-cast structure. No. 1,371,408; Mar. 15; v. 284; p. 424.  
 Briscoe Manufacturing Company. (See Groehn, O. J., and Alldis, assignors.)  
 Brister, Robert E., Pollock, La. Animal-trap. No. 1,370,084; Mar. 1; v. 284; p. 62.  
 Bristol Aeroplane Company. (See Fedden, A. H. R. and B., assignors.)  
 Bristol Aeroplane Company Limited, The. (See Fedden, A. H. R., and Butler, assignors.)  
 Bristol, Carlton W. (See Bristol, William H. and C. W.)  
 Bristol Company, The. (See Bristol, William H. and C. W., assignors.)  
 Bristol, John I. D. (See Curtis, H. K., and Hunter, assignors.)  
 Bristol, William H., Waterbury, Conn. Recording sound. No. 1,380,864; June 7; v. 287; p. 104.  
 Bristol, William H., Waterbury, Conn. Sound-selecting apparatus. No. 1,396,402; Nov. 8.  
 Bristol, William H., assignor to The Bristol Company, Waterbury, Conn. Synchronized entertainment apparatus. No. 1,396,401; Nov. 8.  
 Bristol, William H., Waterbury, and C. W. Bristol, Nantuck, Conn., assignors to The Bristol Company, Waterbury, Conn. Fluid-gage. No. 1,371,018; Mar. 8; v. 284; p. 285.  
 British Dyestuffs Corporation Limited. (See Perkin, Arthur G., assignor.)  
 British Metal and Toy Manufacturers Limited, The. (See Hazelton, George, assignor.)  
 British Ropeway Engineering Company, Limited. (See Shields, Herbert F. H., assignor.)  
 British Westinghouse Electric and Manufacturing Company, Limited, The. (See Baumann, K., and Scones, assignors.)



*Alphabetical list of patentees—Continued.*

- British Westinghouse Electric and Manufacturing Company, The. (See Baumann, Karl, assignor.)
- British Westinghouse Electric and Manufacturing Company Limited, The. (See Guy, Henry L., assignor.)
- British Westinghouse Electric and Manufacturing Company. (See Muratori, Alfredo, assignor.)
- Britt, Charles J., Willington, S. C. Ground-engaging drive-wheel. No. 1,390,875; Sept. 13; v. 290; p. 356.
- Britt, Thomas, Langley Mill, England. Physical developer adapted for rowing exercise. No. 1,401,038; Dec. 20.
- Brittain, Edward, *et al.* (See Kass, Peter, assignor.)
- Brittain, George E., assignor to I. L. Keith, Haverhill, Mass. Press. No. 1,366,515; Jan. 25; v. 282; p. 606.
- Brittain, George E., assignor to I. L. Keith, Haverhill, Mass. Hand-operated press. No. 1,366,516; Jan. 25; v. 282; p. 606.
- Brittain, Otis H., Pell City, Ala. Automobile attachment. No. 1,369,879; Mar. 1; v. 284; p. 24.
- Brittain, Thomas H. (See Smith, F., and Brittain.)
- Britten, Edwin F., Jr., Maplewood, N. J., assignor to Monroe Calculating Machine Company, New York, N. Y. Shock-absorber for calculating-machine carriages. No. 1,384,592; July 12; v. 288; p. 326.
- Britton, Ernest C., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,374,184; Apr. 12; v. 285; p. 197.
- Britton, Henry Q., Duluth, Minn. Gun-sight. No. 1,371,733; Mar. 15; v. 284; p. 487.
- Britton, Robert B., Emporium, Pa. Car-jack. No. 1,372,271; Mar. 22; v. 284; p. 647.
- Brixen, Andrew C., Westmont, assignor of one-half to P. A. Nelson, Sandpoint, Idaho. Cow-tail holder. No. 1,395,700; Nov. 1.
- Brixey, Austin D., New York, N. Y., assignor to Ordinator Company, Inc. Multiple shade-roller. No. 1,377,461; May 10; v. 286; p. 264.
- Brizendine, Samuel T., Kansas City, Mo. Double-acting pump and operating mechanism. No. 1,376,315; Apr. 26; v. 285; p. 700.
- Broach, Joseph R., Chicago, Ill. Propelling mechanism for vehicles. No. 1,389,735; Sept. 6; v. 290; p. 35.
- Broad, Charles E., Newton, Mass., assignor to Stanley Motor Carriage Company, Newton, Mass. Steam-generating apparatus. No. 1,364,178; Jan. 4; v. 282; p. 26.
- Broad, William, Beaver Falls, assignor of three-fourths to H. E. McLain, Pittsburgh, Pa. Spark-intensifier. No. 1,391,239; Sept. 20; v. 290; p. 493.
- Broadley, Joseph R., London, England. Machine for grinding ores, mineral stones, and the like. No. 1,392,887; Oct. 4.
- Broadmeyer, Albert, assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Sheet-piling mechanism. No. 1,364,978; Jan. 11; v. 282; p. 224.
- Broady, Harry W., Bayside, N. Y., assignor to American Balsa Company, Inc. Davit and crane. No. 1,388,830; Aug. 23; v. 289; p. 748.
- Broady, Harry W., Bayside, N. Y., assignor to American Balsa Company, Inc. Crane or davit. No. 1,388,831; Aug. 23; v. 289; p. 748.
- Broach, John, Vancouver, British Columbia, Canada. Advertising-machine. No. 1,371,467; Mar. 15; v. 284; p. 436.
- Broberg, Isidor. (See Ljungstrom, F. Broberg, and Eriksson.)
- Brochu, Joseph E. (See Perrow, James S., assignor.)
- Brock, Addison W., assignor to H. Gamse & Bro., Baltimore, Md. Bronzing-machine. No. 1,377,056; May 3; v. 286; p. 129.
- Brock, Clarence A., Detroit, Mich. Spring. No. 1,380,523; June 7; v. 287; p. 38.
- Brock and Company. (See Ginder, Wallace G., assignor.)
- Brock, Edward L., administrator. (See Brock, Matthias.)
- Brock, Edward P. (See Leyland, Frederick W., assignor.)
- Brock, Edward P. (See Leyland, Frederick W., and Brock.)
- Brock, Ellis R., Bamberg, S. C. Thread-board cleaner for spinning-machines. No. 1,369,961; Mar. 1; v. 284; p. 39.
- Brock, Frank P. (See Redman, L. V., Weith, and Brock.)
- Brock, John O., Wilson, N. C. Drier or heater for tobacco-barns. No. 1,368,018; Feb. 8; v. 283; p. 279.
- Brock, John O., Wilson, N. C. Spark-plug. No. 1,398,173; Nov. 22.
- Brock, Joseph, assignor of one-eighth to E. Demuling and five per cent. to J. J. Grant, Erie, Pa. Horseshoe-punching machine. No. 1,377,799; May 10; v. 286; p. 328.
- Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Toe-softening machine. No. 1,373,481; Apr. 5; v. 285; p. 20.
- Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,373,482; Apr. 5; v. 285; p. 20.
- Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. End-lasting. No. 1,373,483; Apr. 5; v. 285; p. 21.
- Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,376,387; Apr. 26; v. 285; p. 714.
- Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shaping-machine for shoes. No. 1,376,388; Apr. 26; v. 285; p. 714.
- Brock, Matthias, deceased, Boston, Mass., by E. L. Brock, administrator, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Staple making and driving machine. No. 1,388,846; Aug. 30; v. 289; p. 806.
- Brock, Matthias, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,390,755; Sept. 13; v. 290; p. 332.
- Brock, Matthias, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Softening apparatus. No. 1,396,160; Nov. 8.
- Brock, Matthias, deceased, Boston, by E. L. Brock, administrator, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for pressing the soles of shoes. No. 1,399,742; Dec. 13.
- Brock, Maynor D., Kansas City, Mo. Toy vehicle. No. 1,369,777; Mar. 1; v. 284; p. 5.
- Brocke, Gerhard, Pittsburgh, assignor of one-third to W. J. Hold, Castle Shannon, and one-third to G. C. Feucht, Pittsburgh, Pa. Lifting-jack. No. 1,367,857; Feb. 8; v. 283; p. 250.
- Brockett, Bluford W., Cleveland, and D. H. Benjamin, Cleveland Heights, Ohio. Pressing-machine. No. 1,383,520; July 5; v. 288; p. 54.
- Brockett, Bluford W., Cleveland, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Work-shirt press. No. 1,387,099; Aug. 9; v. 289; p. 298.
- Brockett, Frederick G., Chicago, Ill. Shutter mechanism for cameras. No. 1,378,936; May 24; v. 286; p. 671.
- Brockhagen, George J., Brooklyn, N. Y. Change-making machine. No. 1,393,424; Oct. 11.
- Brockman, Charles J., Coronado, Calif. Shower-bath apparatus. No. 1,368,237; Feb. 15; v. 283; p. 370.
- Brockmeyer, Charles F., Bennett, Iowa. Whole-wheat food product. No. 1,374,185; Apr. 12; v. 285; p. 197.
- Brocksmith, Adolph R., St. Louis, Mo. Radius-rod construction. No. 1,383,521; July 5; v. 288; p. 54.
- Brockup, Edward, Carteret, N. J. Combination-lock. No. 1,364,698; Jan. 4; v. 282; p. 126.
- Brockup, Edward, Carteret, N. J. Combination-lock. No. 1,367,233; Feb. 1; v. 283; p. 70.
- Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Rotary gas-engine. No. 1,370,946; Mar. 8; v. 284; p. 271.
- Brockway, Carl P., assignor to The Willys-Overland Company, Toledo, Ohio. Steering-wheel-spider puller. No. 1,383,382; July 5; v. 288; p. 26.
- Brockway, Don M. and F. R., Los Angeles, Calif. Transformable automobile-tractor. No. 1,388,148; Aug. 16; v. 289; p. 556.
- Brockway, Foss R. (See Brockway, Don M. and F. R.)
- Brod, Viola C., Sandusky, Ohio. Nail-polisher. No. 1,389,621; Sept. 6; v. 290; p. 12.
- Broder, Lloyd L., Eugene, Oreg., assignor to American Universal Implement Company, a Corporation of Oregon. Tractor. No. 1,369,778; Mar. 1; v. 284; p. 5.
- Broderick, Arthur F., Jersey City, N. J. Locking device for automobiles. No. 1,376,999; May 3; v. 286; p. 118.
- Broderick, Martin A., Johnstown, Pa. Card game. No. 1,373,115; Mar. 29; v. 284; p. 352.
- Brodie, Stuart B., Wilmerding, Pa. Combined oil and gas burner. No. 1,400,657; Dec. 20.
- Brodowski, John F., Milwaukee, Wis. Sash-fastener. No. 1,379,959; May 31; v. 286; p. 938.
- Brodowski, John F., Milwaukee, Wis. Sash-hanger. No. 1,395,384; Nov. 1.
- Brodowski, Leon W., Trenton, N. J. Lock. No. 1,364,069; Jan. 4; v. 282; p. 4.
- Brodu, Francois-Louis, Nantes, France. Adjustable work-holder for machine-tools and the like. No. 1,380,287; May 31; v. 286; p. 999.
- Brody, Elias J., Roxbury, Mass. Supporting-fixture for mirrors and the like. No. 1,399,743; Dec. 13.
- Broga, Franklin D., Syracuse, N. Y. Carrier or trolley. No. 1,383,383; July 5; v. 288; p. 26.
- Brogan, Maurice P., Omaha, Nebr. Reflector. No. 1,401,870; Dec. 27.
- Brogan, Michael F., Lawrence, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Last-pulling machine. No. 1,383,284; July 5; v. 288; p. 5.
- Broider, Louis, *et al.* (See Wagner, Michael, assignor.)
- Broido, Benjamin, Perth Amboy, N. J., assignor to Locomotive Superheater Company, New York, N. Y. Means for securing pipes to plates. No. 1,368,783; Feb. 15; v. 283; p. 477.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Superheater-regulator. No. 1,387,463; Aug. 16; v. 289; p. 420.
- Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Boiler with superheaters. No. 1,387,464; Aug. 16; v. 289; p. 420.
- Brolit Limited. (See Holt, William, assignor.)
- Broluska, Amel B. and Harry A., assignors of one-third to C. Caillau, Detroit, Mich. Vehicle-tire. No. 1,384,551; July 12; v. 288; p. 317.
- Broluska, Harry A. (See Broluska, Amel B. and H. A.)



## Alphabetical list of patentees—Continued.

- Broman, John, Worcester, Mass. Table-operating mechanism. No. 1,373,050; Mar. 29; v. 284; p. 840.
- Broman, Lydia, Minneapolis, Minn. Apron. No. 1,386,595; Aug. 9; v. 289; p. 196.
- Broman, Peter, assignor to Brown Safety Ladder Mfg. Co., Chicago, Ill. Extension-ladder stop. No. 1,398,622; Nov. 29.
- Bromley, John, & Sons. (See Grundy, James A., assignor.)
- Brommer, John F., New York, N. Y. Talking-machine. No. 1,391,455; Sept. 20; v. 290; p. 536.
- Bronander, Wilhelm B., Montclair, N. J. Cutting-tool. No. 1,397,357; Nov. 15.
- Bronander, Wilhelm B., Montclair, N. J. Die-press. No. 1,397,358; Nov. 15.
- Bronie, William, Brooklyn, assignor to National Carbon Company, Inc., New York, N. Y. Flashlight. No. 1,388,165; Aug. 23; v. 289; p. 617.
- Bronnert, Emile, Mulhouse, Alsace-Lorraine, France. Manufacture of artificial viscose silk. No. 1,374,718; Apr. 12; v. 285; p. 300.
- Bronnert, Emile, Mulhausen, Alsace-Lorraine, France. Recovering salts formed in the manufacture of artificial silk. No. 1,376,671; May 3; v. 286; p. 54.
- Bronnert, Emile, Mulhausen, Alsace-Lorraine, France. Manufacture of viscose silk. No. 1,376,672; May 3; v. 286; p. 55.
- Bronnert, Emile, Mulhausen, France. Manufacture of artificial silk. No. 1,387,882; Aug. 16; v. 289; p. 505.
- Bronnert, Emile, Mulhouse, Alsace-Lorraine, France. Production of high-percentage sulfite cellulose. No. 1,392,047; Sept. 27; v. 290; p. 730.
- Bronnert, Emile, Mulhouse, Alsace-Lorraine, France. Manufacture of artificial silk. No. 1,393,197; Oct. 11.
- Bronnert, Emile, Mulhouse, Alsace-Lorraine, France. Manufacture of viscose silk. No. 1,393,198; Oct. 11.
- Bronnert, Emile, Mulhouse, Alsace-Lorraine, France. Manufacture of artificial silk. No. 1,393,199; Oct. 11.
- Bronson, Arthur S., El Paso, Tex. Container. No. 1,381,165; June 14; v. 287; p. 213.
- Bronson, George. (See Houseman, W. H., and Bronson.)
- Bronson, George C., and M. C. St. Clair, Newcastle, Ind. Railway-crossing signal. No. 1,388,166; Aug. 23; v. 289; p. 617.
- Bronson, Ralph C., assignor to Multiple Electric Company, Chicago, Ill. Fuse-plug. No. 1,396,352; Nov. 8.
- Brook, John H. (See Ritz, F., and Brook.)
- Brook, John O., Curban, New South Wales, Australia. Power-driven stripper or header-harvester. No. 1,374,424; Apr. 12; v. 285; p. 243.
- Brook, John O., Curban, assignor of one-half to A. Rogers, Havilah, New South Wales, Australia. Attachment for use with reapers, threshers, and the like. No. 1,367,533; Feb. 8; v. 283; p. 187.
- Brookby, Harry E., Evanston, Ill. Parallel-current calcining-kiln. No. 1,390,335; Sept. 13; v. 290; p. 247.
- Brookby, Harry E., Evanston, assignor to United States Gypsum Company, Chicago, Ill. Aging calcined gypsum products and product thereof. No. 1,370,581; Mar. 8; v. 284; p. 202.
- Brooker, Henry, London, England. Work and tool holder. No. 1,367,014; Feb. 1; v. 283; p. 26.
- Brooker, Henry, Goodmayes, England. Coin-feed delivery apparatus. No. 1,398,766; Nov. 29.
- Brookins, Andrew J., Buxton, Iowa. Train-stop. No. 1,365,020; Jan. 11; v. 282; p. 233.
- Brookins, Andrew J., Buxton, Iowa. Train-control apparatus. No. 1,369,880; Mar. 1; v. 284; p. 24.
- Brookins, Andrew J., Chicago, Ill. Train-signal. No. 1,369,881; Mar. 1; v. 284; p. 24.
- Brookins, Andrew J., Chicago, Ill. Automatic train-control apparatus. No. 1,384,552; July 12; v. 288; p. 317.
- Brookins, Andrew J., Chicago, Ill. Train-control apparatus. No. 1,389,094; Aug. 30; v. 289; p. 856.
- Brookins, Andrew J., Chicago, Ill. Ramp-rail installation. No. 1,392,111; Sept. 27; v. 290; p. 742.
- Brookman, Frank R., Tomah, Wis. Tractor-hitch. No. 1,368,603; Feb. 15; v. 283; p. 442.
- Brooks, Benjamin T., Bayside, N. Y., assignor to Chadeloid Chemical Company. Making chlorhydrins. No. 1,394,664; Oct. 25.
- Brooks, Charles D., Brooklyn, N. Y. Centrifugal propeller. No. 1,398,062; Nov. 22.
- Brooks, Charles E., Minneapolis, Minn. Lawn-sprinkler. No. 1,380,464; June 7; v. 287; p. 27.
- Brooks, Clayton A., Girard, Pa. Electrically-actuated track-trip. No. 1,373,595; Apr. 5; v. 285; p. 42.
- Brooks, Edward M., assignor of one-half to S. H. Bradshaw, Fort Wayne, Ind. Window-fastener. No. 1,401,941; Dec. 27.
- Brooks, Harry A., Glendale, assignor to Blaisdell Company, Los Angeles, Calif. Filter-cleaning apparatus. No. 1,393,492; Oct. 11.
- Brooks, Herbert, assignor to Messrs. Petters Limited, Yeovil, England. Means for controlling the supply of liquid fuel to internal-combustion engines. No. 1,365,301; Jan. 11; v. 282; p. 286.
- Brooks, Herbert, assignor to Petters Limited, Yeovil, England. Means for reversing internal-combustion engines. No. 1,373,484; Apr. 5; v. 285; p. 21.
- Brooks, Hugh A., Bainbridge, Ga. Lathe-chuck. No. 1,378,319; May 17; v. 286; p. 479.
- Brooks, James A., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-seat. No. 1,371,848; Mar. 15; v. 284; p. 509.
- Brooks, Jesse M., Chicago, Ill. Sign. No. 1,373,167; Mar. 29; v. 284; p. 863.
- Brooks, John C., Paterson, N. J. Loom. No. 1,368,691; Feb. 15; v. 283; p. 459.
- Brooks, John C., Paterson, N. J. Loom. No. 1,377,390; May 10; v. 286; p. 250.
- Brooks, John C., Paterson, N. J. Loom. No. 1,386,550; Aug. 2; v. 289; p. 114.
- Brooks, Linzy, Rainier, Oreg. Traffic-signal. No. 1,381,398; June 14; v. 287; p. 256.
- Brooks, R. M. (See Gould, Edwin J., assignor.)
- Brooks, Robert A., Chicago, Ill. Flushing-valve. No. 1,396,501; Nov. 8.
- Brooks, Roscoe A., Chicago, Ill., assignor, by mesne assignments, to Western Rubber Mold Company. Adjustable section and retread-mold for pneumatic tires. No. 1,368,478; Feb. 15; v. 283; p. 417.
- Brooks, S. J., et al. (See Taft, John A., assignor.)
- Brooks, William C., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Containing-box for electric batteries. No. 1,381,399; June 14; v. 287; p. 256.
- Brooks, William L., Ardmore, Okla. Gas-burner. No. 1,371,144; Mar. 8; v. 284; p. 309.
- Brooks, Winfred M., West Orange, N. J. Sealing mechanism. No. 1,380,038; May 31; v. 286; p. 952.
- Brookshire, Elijah B., Eldorado, Kans. Resilient tire. No. 1,397,359; Nov. 15.
- Brookshire, Elijah B., assignor of one-half to H. H. Faulders, Eldorado, Kans. Wrench. No. 1,373,296; Mar. 29; v. 284; p. 889.
- Brophy, Daniel J., Montreal, Quebec, Canada. Clamping device for molds. No. 1,395,553; Nov. 1.
- Brophy, John P., Cleveland Heights, Ohio. Automobile-signal. No. 1,369,779; Mar. 1; v. 284; p. 5.
- Brophy, John P., Cleveland, Ohio. Driving mechanism for automatic machines. No. 1,389,433; Aug. 30; v. 289; p. 924.
- Brophy, John P., Cleveland, Ohio. Folding armrest. No. 1,399,744; Dec. 13.
- Bropson, James, Cleveland, Ohio. Sanitary plumbing connection. No. 1,370,874; Mar. 8; v. 284; p. 258.
- Broschart, Jacob L., Trenton, Mo. Pipe-coupling. No. 1,391,456; Sept. 20; v. 290; p. 537.
- Broschart, Jacob L., Trenton, Mo. Pencil attachment. No. 1,395,793; Nov. 1.
- Brose, Carrie H., San Diego, Calif. Measurer and gage. No. 1,380,187; May 31; v. 286; p. 980.
- Brosius, Edgar E., Pittsburgh, Pa. Charging apparatus for annealing-furnaces. No. 1,389,238; Aug. 30; v. 289; p. 884.
- Brosius, John G., Tulsa, Okla. Door and window construction. No. 1,391,608; Sept. 20; v. 290; p. 567.
- Brosnan, Cornelius J., Springfield, Mass. Intensifier. No. 1,382,338; June 21; v. 287; p. 493.
- Brosnan, Margaret H., Washington, D. C. Vanity-case for personal wear. No. 1,400,139; Dec. 13.
- Brossoit, James J. (See Maurer, A., and Brossoit.)
- Brostrom, Edward E., Los Angeles, Calif. Measuring concealed objects. No. 1,396,920; Nov. 15.
- Brotherton, Wilbur. (See Howe, Solon G., assignor.)
- Brotsch, Frederick A., Jr., Brighton, N. Y. Pavement construction. No. 1,384,042; July 12; v. 288; p. 212.
- Brouhard, Roy W., and W. H. Donaldson, Colo., Iowa. Valve-puller. No. 1,381,890; June 14; v. 287; p. 350.
- Brouillard, Donat, Haverhill, Mass. Lifting-tackle. No. 1,377,870; May 10; v. 286; p. 342.
- Brouillette, Albert J., assignor to Shambow Shuttle Company, Woonsocket, R. I. Shuttle-eye. No. 1,396,555; Nov. 8.
- Brousseau, Harry, Bath, Me. Steering-gear for ships. No. 1,392,394; Oct. 4.
- Broward, Edward C., Jacksonville, Fla. Mud-pull-out attachment for auto-wheels. No. 1,371,347; Mar. 15; v. 284; p. 411.
- Browder, Benjamin F. (See Smith, M. J., and Browder.)
- Brower, Harry M., Freehold, N. J. Safety-lock for automobiles. No. 1,383,904; July 5; v. 288; p. 134.
- Brower, James S., St. Louis, Mo. Incubator. No. 1,401,756; Dec. 27.
- Brown, A. & F. Company, The. (See Woodward, Arthur C., assignor.)
- Brown, A. G., Boveri & Cie. (See Aichelle, Albert, assignor.)
- Brown, A. G., Boveri & Cie. (See Güttinger, Heinrich, assignor.)
- Brown, Albert W., Mays Landing, N. J., Bread-slicer. No. 1,371,849; Mar. 15; v. 284; p. 509.
- Brown, Albert W., assignor to C. H. R. Brown, Fullerton, Calif. Drive-clamp. No. 1,396,921; Nov. 15.
- Brown, Albert W., assignor to C. H. R. Brown, Fullerton, Calif. Pump-barrel. No. 1,396,922; Nov. 15.
- Brown, Alexander A., Rutherglen, Glasgow, Scotland. Folded blank box. No. 1,366,309; Jan. 18; v. 282; p. 521.
- Brown, Alexander T., Syracuse, N. Y. Computing-machine. No. 1,372,334; Mar. 22; v. 284; p. 659.
- Brown, Alexander T., Syracuse, N. Y. Motor agricultural machine. No. 1,372,335; Mar. 22; v. 284; p. 659.



*Alphabetical list of patentees—Continued.*

- Brown, Alexander T., Syracuse, N. Y. Motor agricultural machine. No. 1,385,011; July 19; v. 288; p. 499.
- Brown, Arthur C. and S. P. Smith, Norwich, Conn. Toy car. No. 1,381,061; June 7; v. 287; p. 142.
- Brown, Arthur J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Flow-indicator. No. 1,385,973; July 26; v. 288; p. 765.
- Brown, Augustus F., Havre de Grace, Md. Metallic railway-tie. No. 1,373,947; Apr. 5; v. 285; p. 111.
- Brown & Bailey Company. (See Heim, Jacob C., assignor.)
- Brown, Barton C. Y., Los Angeles, Calif. Camp-stool. No. 1,371,069; Mar. 8; v. 284; p. 295.
- Brown & Bigelow. (See Fischer, Howard L., assignor.)
- Brown & Bigelow. (See Kristofek, Frank J., assignor.)
- Brown & Bigelow. (See Vierling, F. J., and Kvorning, assignors.)
- Brown, Burnice R. (See Brown, Frank E. and B. R.)
- Brown, Carl E., Columbus, Ohio. Automobile-signal. No. 1,371,296; Mar. 15; v. 284; p. 401.
- Brown, Carl E., Columbus, assignor to Parker Manufacturing Company, Dayton, Ohio. Oil-burner. No. 1,398,254; Nov. 29.
- Brown, Caroline H. R. (See Brown, Albert W., assignor.)
- Brown, Charles. (See Anderson, A., and Brown.)
- Brown, Charles A., Louisville, Ky. Clutch. No. 1,368,888; Feb. 15; p. 283; p. 497.
- Brown, Charles A., Lorain, Ohio, assignor of one-third to G. G. Earl and one-third to A. B. Wood, New Orleans, La. Filter. No. 1,383,384; July 5; v. 288; p. 26.
- Brown, Charles F. (See Adams, Gilbert L., assignor.)
- Brown, Charles F., trustee. (See Shepard, Charles C., assignor.)
- Brown, Charles H., Ranger, Tex. Fishing-tool. No. 1,399,249; Dec. 6.
- Brown, Charles J., Hamilton, Tex. Radiator-plug. No. 1,369,882; Mar. 1; v. 284; p. 24.
- Brown, Charles J., Tonawanda, assignor of one-half to L. C. Newman, Buffalo, N. Y. Pulp-producing apparatus. No. 1,380,524; June 7; v. 287; p. 38.
- Brown, Charles L., Robinson, Kans. Box-forming machine. No. 1,375,275; Apr. 19; v. 285; p. 470.
- Brown, Charles R., Minneapolis, assignor of one-half to W. Stowell, St. Paul, Minn. Attachment for platen printing-presses. No. 1,376,187; Apr. 26; v. 285; p. 675.
- Brown, Charles S., Syracuse, N. Y. Motor agricultural machine. No. 1,399,739; Dec. 13.
- Brown, Charles W., Creston, N. C. Adjustable wrench. No. 1,367,456; Feb. 1; v. 283; p. 114.
- Brown, Charles W., Indianola, Iowa. Machine-gun. No. 1,401,667; Dec. 27.
- Brown, Chester A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Soldering-iron. No. 1,401,871; Dec. 27.
- Brown, Chisholm R., Somerton, and H. H. Hinds, Sydney, New South Wales, Australia. Churn. No. 1,365,963; Jan. 18; v. 282; p. 455.
- Brown, Christopher, Charleroi, Pa. Corner-rounding machine. No. 1,365,583; Jan. 11; v. 282; p. 341.
- Brown, Christopher, Charleroi, Pa., assignor to Pittsburgh Plate Glass Company. Edge grinding and polishing machine. No. 1,380,133; May 31; v. 286; p. 970.
- Brown, Clarence R., Creighton, Nebr. Chalk-cup. No. 1,371,850; Mar. 15; v. 284; p. 509.
- Brown, Clifford C., Cartersville, Ga. Mixer for gas-engines. No. 1,398,063; Nov. 22.
- Brown, Clyde E., Napa, Calif. Railway rail and gage joint. No. 1,370,582; Mar. 8; v. 284; p. 202.
- Brown Company. (See Burningham, F. A., Richter, Van Arsdel, and White, assignors.)
- Brown Company. (See Cox, John T., assignor.)
- Brown Company. (See Parker, Howard, assignor.)
- Brown Company. (See Richter, G. A., Van Arsdel, and White, assignors.)
- Brown Company. (See Richter, George A., assignor.)
- Brown, Daniel J., Northport, Nebr. Appliance for mending broken vehicle-wheels. No. 1,387,918; Aug. 16; v. 289; p. 512.
- Brown, David F., Boundbrook, N. J. Airship. No. 1,374,487; Apr. 12; v. 285; p. 256.
- Brown, David L., Hamilton, Ohio. Paper-making machine. No. 1,370,184; Mar. 1; v. 284; p. 81.
- Brown, Davis, assignor to Hadfield Penfield Steel Company, Bucyrus, Ohio. Dry pan. No. 1,390,235; Sept. 6; v. 290; p. 135.
- Brown, Doris A., Pierce, W. Va. Switch-hinge and heel-plate. No. 1,371,851; Mar. 15; v. 284; p. 510.
- Brown, E. W. (See Rote, Charles V., assignor.)
- Brown, Earl D., Bakersfield, Calif. Frictionless spring. No. 1,387,041; Aug. 9; v. 289; p. 286.
- Brown, Edmund. (See Johnston, Albert F., assignor.)
- Brown, Edmund N., and M. H. Shoenberg, San Francisco, Calif. Guard for heaters. No. 1,368,108; Feb. 8; v. 283; p. 297.
- Brown, Edmund N., and M. H. Shoenberg, assignors to Majestic Electric Development Company, San Francisco, Calif. Electric heater. No. 1,398,217; Nov. 22.
- Brown, Edmund N., and Milton H. Shoenberg, assignors to Majestic Electric Development Company, San Francisco, Calif. Multiple reflector. No. 1,400,859; Dec. 20.
- Brown, Egbert S., East Savannah, Ga. Conveyor. No. 1,377,800; May 10; v. 286; p. 328.
- Brown, Elizabeth C., New York, N. Y. Folding bed. No. 1,366,517; Jan. 25; v. 282; p. 607.
- Brown, Elmer D., Fort Worth, Tex. Culinary utensil. No. 1,386,311; Aug. 2; v. 289; p. 69.
- Brown, Elmer J., Rangeley, Me. Tooth-brush-marker. No. 1,380,633; June 7; v. 287; p. 58.
- Brown, Elmer K., Seattle, Wash. Automatic road-map. No. 1,398,623; Nov. 29.
- Brown, Enoch S., assignor of one-half to P. Scharlau, Warba, Minn. Hen's nest. No. 1,401,459; Dec. 27.
- Brown, Eric, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Toothed wheel. No. 1,383,266; June 28; v. 287; p. 723.
- Brown, Eric, Baden, and A. Carrard, Ennetbaden, Switzerland, assignors to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Method and apparatus for regulating centrifugal compressors. No. 1,401,668; Dec. 27.
- Brown, Frank A., Indianapolis, Ind., assignor to G. & J. Tire Company. Curing and shaping articles of rubberized fabric. No. 1,373,405; Apr. 5; v. 285; p. 5.
- Brown, Frank A., Indianapolis, Ind., assignor to G. & J. Tire Company. Vulcanizing-pad. No. 1,379,391; May 24; v. 286; p. 757.
- Brown, Frank D., assignor of one-half to J. A. McIntosh, Sugargrove, Pa. Automobile-jack. No. 1,365,888; Jan. 18; v. 282; p. 440.
- Brown, Frank E. and Burnice R., Webster City, Iowa. Highway-crossing signal. No. 1,364,179; Jan. 4; v. 282; p. 26.
- Brown, Garnet C., Dayton, assignor to The Willys-Overland Company, Toledo, Ohio. Transmission-brake-operating mechanism. No. 1,383,385; July 5; v. 288; p. 27.
- Brown, George D., Barrie, Ontario, Canada. Smoke-consumer. No. 1,391,609; Sept. 20; v. 290; p. 567.
- Brown, George B., Seattle, Wash. Mechanical baseball game. No. 1,400,020; Dec. 13.
- Brown, George F., Moorhead, Minn. Combination ash-sifter and garbage-can. No. 1,373,297; Mar. 29; v. 284; p. 889.
- Brown, George F., Moorhead, Minn., assignor to The International Patent Investment Company, Fargo, N. D. Grain-drying process. No. 1,377,662; May 10; v. 286; p. 301.
- Brown, George M., Mullins, S. C. Electrical water-supply pumping system. No. 1,369,081; Feb. 22; v. 283; p. 573.
- Brown, George N., Auburn, N. Y. Theatrical apparatus. No. 1,364,699; Jan. 4; v. 282; p. 126.
- Brown, George W., Fort Worth, Tex., assignor of one-fourth to H. M. Coleman, Indianapolis, Ind. Automatically-operated gate and door. No. 1,390,015; Sept. 6; v. 290; p. 92.
- Brown, Halley E. (See Bickel, W. W., and Brown.)
- Brown, Harley T., Hubbardston, Mich. Snow-remover. No. 1,388,509; Aug. 23; v. 289; p. 686.
- Brown, Harry E. (See Penwell, T., and Brown.)
- Brown, Harry L. (See Schiefelin, Schuyler, assignor.)
- Brown, Harvey O., Easton, Pa. Filling stop-motion for looms. No. 1,398,713; Nov. 29.
- Brown, Haughton. (See Brown, Theodore H. and H.)
- Brown, Henry C., Fortuna, Calif. Gold-amalgamator. No. 1,369,388; Feb. 22; v. 283; p. 633.
- Brown, Henry L., Atlantic City, N. J. Holder. No. 1,378,807; May 17; v. 286; p. 573.
- Brown, Herbert L., Petersburg, Va. Bottle-capping machine. No. 1,379,161; May 24; v. 286; p. 713.
- Brown, Herbert W., Ashland, Ohio. Focusing device for headlights. No. 1,386,312; Aug. 2; v. 289; p. 70.
- Brown Hoisting Machinery Company, The. (See Larkworthy, Frederick W., assignor.)
- Brown Hoisting Machinery Company, The. (See Scott, Harry E., assignor.)
- Brown, Howard S., Oasis, Utah, assignor to Pawling & Harnischfeger Company, West Milwaukee, Wis. Excavating-wheel. No. 1,386,987; Aug. 9; v. 289; p. 275.
- Brown, Hubard, Buford, Ga. Brace or support. No. 1,384,299; July 12; v. 288; p. 265.
- Brown, Hugh, Battle Creek, Mich., assignor, by mesne assignments, to Wirebonds Patents Company, Box or crate. (Reissue). No. 15,100; May 10; v. 286; p. 367.
- Brown, Hugh C., Philadelphia, Pa. Valve and grinding mechanism therefor. No. 1,392,112; Sept. 27; v. 290; p. 743.
- Brown, Hugh E., assignor to W. M. Welch Manufacturing Company, Chicago, Ill. Experimental truss unit. No. 1,393,007; Oct. 11.
- Brown Instrument Company. (See Brown, R. P., and Wagner, assignors.)
- Brown Instrument Co. (See Frey, Charles P., assignor.)
- Brown, J. D. (See Hohnsbeen, George H., assignor.)
- Brown, Jacob S., assignor of one-half to W. F. Eichenhofer, Los Angeles, Calif. Reamer. No. 1,390,876; Sept. 13; v. 290; p. 356.
- Brown, James D. (See Hohnsbeen, George H., assignor.)
- Brown, James H., Manchester, England. Manufacture of sulfuric acid. No. 1,365,964; Jan. 18; v. 282; p. 456.
- Brown, James M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch. No. 1,385,981; Aug. 2; v. 289; p. 3.
- Brown, John, Round Mountain, Calif. Jaw-trap. No. 1,366,355; Jan. 25; v. 282; p. 574.



## Alphabetical list of patentees—Continued.

- Brown, John B., Wynne, Ark. Conveyer-conduit. No. 1,400,658; Dec. 20.
- Brown, John B., Belleville, assignor of one-half to L. Cannold, East Orange, N. J. Self-closing container. No. 1,377,801; May 10; v. 286; p. 329.
- Brown, John F. (See Wagnon, Ira W., assignor.)
- Brown, John G., Newport, England. Upright photographic enlarging, copying, and reducing apparatus. No. 1,398,671; Nov. 29.
- Brown, John J., Alvinston, Ontario, Canada. Pneumatic pump for water systems. No. 1,372,931; Mar. 29; v. 284; p. 817.
- Brown, John R., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond. No. 1,376,396; May 3; v. 286; p. 4.
- Brown, John W., Manufacturing Company, The. (See Pfeifer, Leo L., assignor.)
- Brown, John W., and W. Hess, assignors to Benjamin P. Odyke, Inc., Philadelphia, Pa. Seaming apparatus. No. 1,377,905; May 10; v. 286; p. 233.
- Brown, John W., and W. Hess, assignors to Benjamin P. Odyke, Inc., Philadelphia, Pa. Sheet-metal-seaming machine. No. 1,378,651; May 17; v. 286; p. 543.
- Brown, John W., and W. Hess, assignors to B. P. Odyke, Inc., Philadelphia, Pa. Sheet-metal-seaming machine. No. 1,381,062; June 7; v. 287; p. 142.
- Brown, John W., Jr., Philadelphia, Pa. Thrust-bearing. No. 1,386,491; Aug. 2; v. 289; p. 102.
- Brown, John W., Jr., assignor to The Enterprise Manufacturing Company of Pennsylvania, Philadelphia, Pa. Meat-chopper. No. 1,397,398; Nov. 15.
- Brown, Joseph H. (See Davison, Ernest G., assignor.)
- Brown, Julius A., Peekskill, N. Y. Reproducer for phonographs. No. 1,392,677; Oct. 4.
- Brown, Katherine M., et al. (See Capell, Carl F., assignor.)
- Brown, Kirk, Montclair, assignor to Condensite Company of America, Bloomfield, N. J. Carboy. No. 1,371,220; Mar. 15; v. 284; p. 386.
- Brown, Lee, Modesto, Calif. Cranking device for tractors. No. 1,386,837; Aug. 9; v. 289; p. 245.
- Brown, Leonard L., assignor of one-fourth to R. E. Robinson and one-fourth to G. I. Grasty, Clifton Forge, Va. Railway-tie. No. 1,385,302; July 19; v. 288; p. 553.
- Brown, Le Roy, Sault Ste. Marie, Ontario, Canada. Heat-interchanging device. No. 1,367,944; Feb. 8; v. 283; p. 265.
- Brown, Levi, Milwaukee, assignor of one-half to L. McElwain, Walworth, Wis. Precision-gage. No. 1,380,945; June 7; v. 287; p. 119.
- Brown, Louis G., et al. (See Johnston, Samuel, assignor.)
- Brown, Louis L., New York, and H. J. Deutschbein, Brooklyn, N. Y., assignors to The Foundation Company, Caisson. No. 1,369,217; Feb. 22; v. 283; p. 600.
- Brown, Lyman D., Flint, Mich. Vehicle-wheel. No. 1,378,399; May 17; v. 286; p. 495.
- Brown, Martha A., Pittsburgh, Pa. Sash-fastener. No. 1,382,758; June 28; v. 287; p. 627.
- Brown, Max, et al., trustee. (See Bonner, William T., assignor.)
- Brown, Max, Chicago, Ill. Collapsible sled. No. 1,364,423; Jan. 4; v. 282; p. 73.
- Brown, Max, Chicago, Ill. Collapsible sled. No. 1,384,553; July 12; v. 288; p. 318.
- Brown, Nat E., Grand Haven, Mich. Camera. No. 1,366,158; Jan. 18; v. 282; p. 492.
- Brown, Newman T., assignor to C. A. Spirk, Seattle, Wash. Direction-indicator. No. 1,395,088; Oct. 25.
- Brown, Oran K., Evanston, Ill. Cultivator attachment for tractor. No. 1,378,994; May 24; v. 286; p. 681.
- Brown Portable Conveying Machinery. (See Erikson, Peter S., assignor.)
- Brown Portable Conveying Machinery Company. (See Fraley, Lawrence V., assignor.)
- Brown, Ray M., Yonkers, N. Y. Locomotive driving-axle journal-box. No. 1,377,557; May 10; v. 286; p. 281.
- Brown, Ray M., Yonkers, assignor to H. L. Ingersoll, White Plains, N. Y. Controlling mechanism for booster-motors. No. 1,380,348; June 7; v. 287; p. 5.
- Brown, Ray M., Yonkers, assignor to H. L. Ingersoll, White Plains, N. Y. Booster-engine for steam-locomotives. No. 1,395,476; Nov. 1.
- Brown, Ray M., Yonkers, assignor to H. L. Ingersoll, White Plains, N. Y. Controlling mechanism for locomotive booster-motors. No. 1,398,536; Nov. 29.
- Brown, Richard P., and F. Wagner, assignors to The Brown Instrument Company, Philadelphia, Pa. Recording-gage. No. 1,390,273; Sept. 13; v. 290; p. 235.
- Brown, Robert, Montrose, Colo. Stovepipe attachment. No. 1,365,150; Jan. 11; v. 282; p. 257.
- Brown, Robert W., New York, N. Y. Braiding-machine. No. 1,383,522; July 5; v. 288; p. 54.
- Brown, Rollie A., Pacific Grove, Calif. Monument. No. 1,397,483; Nov. 15.
- Brown Safety Ladder Mfg. Co. (See Broman, Peter, assignor.)
- Brown, Samuel J., Osakis, Minn. Fish bait or lure. No. 1,365,819; Jan. 18; v. 282; p. 425.
- Brown, Samuel J., Osakis, Minn. Weed attachment for fish-lures. No. 1,371,348; Mar. 15; v. 284; p. 412.
- Brown & Sharpe Manufacturing Company. (See Goguen, C. J., and Provost, assignors.)
- Brown & Sharpe Manufacturing Company. (See Howard, Clarence J., assignor.)
- Brown & Sharpe Manufacturing Company. (See Waterman, Benjamin F., assignor.)
- Brown, Silas B., assignor to The Edwards Manufacturing Company, Cincinnati, Ohio. Toy repeating rifle. No. 1,381,449; June 14; v. 287; p. 266.
- Brown, Stanley, Garden City, assignor to The Griscom Russell Company, New York, N. Y. High-heat-level evaporator system. No. 1,400,935; Dec. 20.
- Brown, Stanley E., Middlebury, Vt. Manure-remover. No. 1,388,796; Aug. 23; v. 289; p. 742.
- Brown, Stewart, Chicago, Ill. Frame for games and other purposes. No. 1,394,140; Oct. 18.
- Brown, Theodore H. and H. Minneapolis, Minn. Composition for roof and wall covering. No. 1,369,911; Mar. 1; v. 284; p. 30.
- Brown, Theophilus M., Seattle, Wash. Ship's ventilating-cowl. No. 1,379,163; May 24; v. 286; p. 713.
- Brown, Theophilus M., Seattle, Wash. Ventilator. No. 1,400,860; Dec. 20.
- Brown, Theophilus M., assignor of one-third to H. P. Parker and one-third to R. J. Howland, Seattle, Wash. Ship's ventilator-cover. No. 1,379,162; May 24; v. 286; p. 713.
- Brown, Thomas, Salt Lake City, Utah. Automobile-polish, (composition.) No. 1,392,477; Oct. 4.
- Brown, Thomas H. (See Bellis, George C., assignor.)
- Brown, Thomas R., Sparkill, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Control mechanism for fluid and electric couplings. No. 1,386,284; Aug. 2; v. 289; p. 54.
- Brown, Thomas R., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Car and train-pipe coupling. No. 1,386,235; Aug. 2; v. 289; p. 54.
- Brown, Thomas R., Pittsburgh, Pa., assignor to American Brake Company, St. Louis, Mo. Automatic slack-adjuster. No. 1,388,020; Aug. 16; v. 289; p. 531.
- Brown, Tom. (See Hasty, John B., assignor.)
- Brown, Vernon H., New York, N. Y. Loading device. No. 1,385,110; July 19; v. 288; p. 515.
- Brown, Walter A. (See Wright, H. T., and Brown.)
- Brown, Walter S., Seattle, assignor to C. M. Lovested, King county, Wash. Preserving dry batteries. No. 1,368,479; Feb. 15; v. 283; p. 418.
- Brown, Wilbur L., Santa Ana, Calif. Lubricant-distributor for internal-combustion engines. No. 1,387,587; Aug. 16; v. 289; p. 446.
- Brown, William A., Chicago, Ill. Washing-machine. No. 1,386,451; Aug. 2; v. 289; p. 95.
- Brown, William A., Lincoln, Me. Connector-link for chains. No. 1,390,877; Sept. 13; v. 290; p. 356.
- Brown, William C., Syracuse, N. Y. Pump. No. 1,366,713; Jan. 25; v. 282; p. 646.
- Brown, William C., Syracuse, N. Y., assignor to Stumpf Una-Flow Engine Company. Auxiliary clearance. No. 1,364,070; Jan. 4; v. 282; p. 4.
- Brown, William E., Ashtabula, assignor of one-half to W. C. Harvey, Akron, and one-half to B. Perrin, Geneva, Ohio. Automatic fluid-regulating device. No. 1,375,555; Apr. 19; v. 285; p. 523.
- Brown, William E., and F. C. Seegmueller, Detroit, Mich. Chuck. No. 1,377,663; May 10; v. 286; p. 301.
- Brown, William F., Kansas City, Mo. Nut-lock. No. 1,401,757; Dec. 27.
- Brown, William H. (See Kennedy, James G., assignor.)
- Brown, William H., et al. (See Spiker, Harry E., assignor.)
- Brown, William H., Cleveland, Ohio. Spring-oller. No. 1,364,700; Jan. 4; v. 282; p. 126.
- Brown, William H., Cleveland, Ohio. Uniting two parallel wire-cable members. No. 1,368,480; Feb. 15; v. 283; p. 418.
- Brown, William H. E., et al. (See Lindsay, John, assignor.)
- Brown, William J., Newark, N. J. Suspension drive for sewing-machines. No. 1,398,498; Nov. 29.
- Brown, William M., Johnstown, Pa. Switch-operating mechanism. No. 1,399,540; Dec. 6.
- Brown, William M., E. B. Entwistle, and H. C. Stiff, Johnstown, Pa. Switch-arm. No. 1,373,406; Apr. 5; v. 285; p. 5.
- Brown, William S. (See Davis, C. W., and Brown.)
- Brown, William W., Medford, Ore. Lid-holder for cooking utensils and receptacles. No. 1,395,554; Nov. 1.
- Brownback, Henry L., Norristown, assignor to The Premier Motor Corporation of America, Philadelphia, Pa. Internal-combustion engine. No. 1,398,001; Dec. 6.
- Browne, Arthur F., Darling Point, near Sydney, New South Wales, Australia. Apparatus for scraping and brushing the hulls of floating ships. No. 1,368,692; Feb. 15; v. 283; p. 459.
- Browne, Frank L., Red Cloud, Nebr. Heater. No. 1,370,406; Mar. 1; v. 284; p. 123.
- Browne, George H. (See Phelps, Elmer T., assignor.)
- Browne, George I., Lancaster, Pa. Rubber spring. No. 1,369,389; Feb. 22; v. 283; p. 633.
- Browne, Nat B., assignor to The Hypergraph Company, Los Angeles, Calif. Copying-pad. No. 1,364,542; Jan. 4; v. 282; p. 96.
- Browne, Rachel R. (See Jones, James I., assignor.)



*Alphabetical list of patentees—Continued.*

- Browne, Vere B., Tarentum, Pa. Controlling the grain growth in magnetic alloy sheets. No. 1,367,015; Feb. 1; v. 283; p. 26.
- Browne, Vere B., Tarentum, Pa. Open-hearth furnace. No. 1,393,493; Oct. 11.
- Browne, Vere B., Tarentum, Pa. Producing silicon-steel sheets. No. 1,393,880; Oct. 18.
- Browne, Warren L., Vallejo, Calif. Sandpaper-drum. No. 1,374,425; Apr. 12; v. 285; p. 244.
- Brownell, George W., Leominster, Mass. Device for molding tire-treads. No. 1,364,241; Jan. 4; v. 282; p. 37.
- Brownell, William M., Brooklyn, N. Y. Drier. No. 1,378,808; May 17; v. 286; p. 574.
- Browning Company, The. (See Johnson, Howard F., assignor.)
- Browning, George, Grand Rapids, Mich. Safety-razor. No. 1,368,693; Feb. 15; v. 283; p. 459.
- Browning, George, assignor to Lee Razor Manufacturing Company, Chicago, Ill. Safety-razor. No. 1,387,465; Aug. 16; v. 289; p. 421.
- Browning, John M., Ogden, Utah. Firearm. No. 1,372,336; Mar. 22; v. 284; p. 659.
- Browning, John M., Ogden, Utah. Firearm. No. 1,381,448; June 14; v. 287; p. 265.
- Brownlee, Dalmar T., Indianapolis, Ind. Vehicle spring and mounting therefor. No. 1,364,701; Jan. 4; v. 282; p. 126.
- Brownlee, Dalmar T., Indianapolis, Ind. Spring-suspension for vehicles. No. 1,364,702; Jan. 4; v. 282; p. 126.
- Brownlee, George, Victoria, British Columbia, Canada. Motor-sleigh. No. 1,390,084; Sept. 6; v. 290; p. 106.
- Brownlee, Roy H., Pittsburgh, Pa. Lubricating-oil. No. 1,374,277; Apr. 12; v. 285; p. 215.
- Brownlee, Wilson A., Quathlaski Cove, British Columbia, Canada. Overhead-track suspension means and load-carriage. No. 1,391,993; Sept. 27; v. 290; p. 719.
- Brownlow, Benjamin F., Portland, Oreg. Napkin-folding machine. No. 1,371,349; Mar. 15; v. 284; p. 412.
- Brownstein, Jesse B., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Manufacture of nitrostarch explosives. No. 1,398,931; Nov. 29.
- Brownyard, George W., Los Angeles, Calif. Automobile-wheel construction. No. 1,379,079; May 24; v. 286; p. 697.
- Broza, Stanley A., *et al.* (See Scholtz, John, assignor.)
- Bruah, Howard R., Chicago, Ill. Extendible truck construction. No. 1,392,395; Oct. 4.
- Brubaker, Gordon M., Millersburg, Pa. Cylinder boring or reaming machine. No. 1,384,043; July 12; v. 288; p. 212.
- Brubaker, Gordon M., Millersburg, Pa. Cylinder-boring reamer. No. 1,400,021; Dec. 13.
- Brubaker, Marvel R., Des Moines, Iowa. Server for dining-tables. No. 1,400,209; Dec. 13.
- Brubaker, William, Tolna, N. D. Gearing. No. 1,398,255; Nov. 29.
- Brubaker, William A., Akron, Ohio. Tire-vulcanizing mold. No. 1,395,944; Nov. 1.
- Bruce, Charles, Tuolumne, Calif. Spark-arrester for steam-engines. No. 1,384,822; July 19; v. 288; p. 454.
- Bruce, George K. (See Benson, D., and Bruce.)
- Bruce, Thomas H., New Haven, Conn. Adjustable bracket for gas-timers. No. 1,383,597; July 5; v. 288; p. 70.
- Bruce, William J., and F. M. Worthington, Sterling, Ill. Hat-case. No. 1,388,323; Aug. 23; v. 289; p. 649.
- Bruce, William M., Jr., Springfield, Ohio. Telegraphy. No. 1,369,218; Feb. 22; v. 283; p. 600.
- Bruce, William W. (See Barrett, Jacob O., assignor.)
- Brucker, Ferdinand F., assignor to The Miller Rubber Company, Akron, Ohio. Half-sole for pneumatic tires. No. 1,398,414; Nov. 29.
- Brucker, Henry. (See Oliver, J. W., and Brucker.)
- Bruckman, Frederick A., Portland, Oreg. Stop mechanism for pastry-making machines. No. 1,379,080; May 24; v. 286; p. 697.
- Brückner, Albert, Jersey City, N. J. Shoe for dolls. No. 1,369,320; Feb. 22; v. 283; p. 619.
- Bruckner, Charles C., New York, N. Y. Engraving-machine. No. 1,371,665; Mar. 15; v. 284; p. 475.
- Bruckner, Rudolph B., New York, N. Y. Liquid service-gage. No. 1,378,440; May 17; v. 286; p. 502.
- Bruder, Albert A., Holly, Mich. Furnace. No. 1,368,983; Feb. 15; v. 283; p. 514.
- Bruder, Albert A. and A. J. Holly, Mich. Ventilator for closet-bowls. No. 1,372,272; Mar. 22; v. 284; p. 647.
- Bruder, August J. (See Bruder, Albert A. and A. J.)
- Brueck, Joseph, New York, N. Y. Nail-polish. No. 1,388,546; Aug. 23; v. 289; p. 693.
- Bruederly, Joseph F., Harriman, Pa. Curtain hanger. No. 1,369,615; Feb. 22; v. 283; p. 677.
- Brueggeman, Frank, assignor of one-half to J. R. Richards, Chicago, Ill. Washing-machine. No. 1,367,351; Feb. 1; v. 283; p. 93.
- Brueggemann, Henry B., assignor to J. A. Fay & Egan Company, Cincinnati, Ohio. Multiple-spindle boring-machine. No. 1,367,945; Feb. 8; v. 283; p. 266.
- Bruegger, Zeno A., Boise, Idaho. Engine-piston. No. 1,395,794; Nov. 1.
- Bruehl, Walter J., Buffalo, N. Y. Signal device for automobiles. No. 1,369,006; Feb. 22; v. 283; p. 559.
- Brüggmann, William F., Evanston, Ill., assignor to Printing Utilities Company. Printing-plate mounting. No. 1,390,047; Dec. 6.
- Bruhn, Friedrich W. G., Wilmersdorf, near Berlin, Germany. Speed-recorder for vehicles or locomotives. No. 1,385,342; July 19; v. 288; p. 560.
- Bruhn, Gustav A., Harburg-on-the-Elbe, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Stop mechanism for registers. No. 1,382,467; June 21; v. 287; p. 518.
- Bruhn, Max C. (See McGill, G. F., and Bruhn.)
- Bruhn, Max C., and G. F. McGill, Chicago, Ill. Selective change-maker. No. 1,385,359; July 26; v. 288; p. 640.
- Bruhn, Max C., and G. F. McGill, Chicago, Ill. Change-maker. No. 1,385,360; July 26; v. 288; p. 641.
- Bruhly, Alexander F., West Bend, Wis. Automatic stop for phonographs. No. 1,399,186; Dec. 6.
- Bruhly, Alexander F., Plymouth, Wis. Phonograph-brake. No. 1,399,187; Dec. 6.
- Bruhly, Alexander F., West Bend, Wis., assignor to Plymouth Phonograph Company. Tone-arm for phonographs. No. 1,364,180; Jan. 4; v. 282; p. 26.
- Bruington, George H., Albuquerque, N. Mex. Match-safe and combined dispensing and striking mechanism therefor. No. 1,374,354; Apr. 12; v. 285; p. 229.
- Brulle, Alexander, New York, N. Y. Propeller for aircraft. No. 1,399,290; Dec. 6.
- Brumann, Otto F., Leysin-Village, Switzerland. Means for intermixing fluids. No. 1,387,332; Aug. 16; v. 289; p. 496.
- Brumbaugh, Andrew K., Ardmore, J. W. Redding, Philadelphia, and L. S. Clarke, Haverford, Pa.; said Brumbaugh and Redding assignors to said Clarke. Explosive projectile. No. 1,367,234; Feb. 1; v. 283; p. 70.
- Brumbaugh, John H., Chicago, Ill., assignor to General Fire Extinguisher Company, Providence, R. I. Valve-controlling device. No. 1,396,808; Nov. 15.
- Brumer, Louis. (See Stein, L., and Brumer.)
- Brumfield, Frances D., executrix. (See Brumfield, Jordan T.)
- Brumfield, Jordan T., deceased, by F. D. Brumfield, executrix, Portland, Oreg. Loose-leaf binder. No. 1,390,016; Sept. 6; v. 290; p. 92.
- Brunford, James L., Canajoharie, N. Y. Egg-beater. No. 1,384,593; July 12; v. 288; p. 326.
- Brun, Gaëtan, Paris, France. Self-propelling crane. No. 1,371,852; Mar. 15; v. 284; p. 510.
- Bruckner, Johannes, Cologne-Bickendorf, Germany. Starting induction-motor. No. 1,392,555; Oct. 4.
- Brundage, James W., Akron, Ohio. Clip for rails. No. 1,364,975; Jan. 11; v. 282; p. 223.
- Brundage, James W., assignor to The Miller Rubber Company, Akron, Ohio. Apparatus for removing flexible articles from their forms or cores. No. 1,365,764; Jan. 18; v. 282; p. 415.
- Brundage, James W., assignor to The Miller Rubber Company, Akron, Ohio. Plating-machine. No. 1,371,853; Mar. 15; v. 284; p. 510.
- Brundage, James W., assignor to The Miller Rubber Company, Akron, Ohio. Machine for cutting sections from tire-casings. No. 1,398,123; Nov. 22.
- Bruce, Stephen J., U. S. Navy. Coin-handling apparatus. No. 1,396,923; Nov. 15.
- Bruneau, Huger, Woonsocket, R. I. Decarbonizing device. No. 1,394,665; Oct. 25.
- Brunell, Homer A. (See Burnett, Everett R., assignor.)
- Brunelle, Hector E., Manchester, N. H. Tobacco-box. No. 1,384,937; July 19; v. 288; p. 478.
- Brunelli, Joseph *et al.* (See Mattivi, Vigilio, assignor.)
- Brunner, Garland D., Urbana, Mo. Aircraft. No. 1,379,522; May 24; v. 286; p. 781.
- Bruer, Joseph V., David City, assignor to E. L. Spatz, Bruno, Neb. Clutch operating and holding device. No. 1,375,895; Apr. 26; v. 285; p. 620.
- Bruer, Rudolph, assignor to J. P. Dales and M. J. Meyers, Chicago, Ill. Automobile-lock. No. 1,384,594; July 12; v. 288; p. 327.
- Brunett, Dewitt A., Minneapolis, Minn. Hot-air furnace. No. 1,392,888; Oct. 4.
- Brungardt, Adolf J. (See Brungardt, John J., A. J., G. H., and Dreiling.)
- Brungardt, Guido H. (See Brungardt, John J., A. J., G. H., and Dreiling.)
- Brungardt, John J., Adolf J., Guido H., and Herman J. Dreiling, Victoria, Kans. Feeder for attachment to threshing-machines. No. 1,364,703; Jan. 4; v. 282; p. 126.
- Brunhoff, Edward, Cincinnati, Ohio. Change-tray and advertising device. No. 1,369,912; Mar. 1; v. 284; p. 30.
- Brunhoff, Edward, Cincinnati, Ohio. Oil-saving apparatus. No. 1,369,913; Mar. 1; v. 284; p. 30.
- Brunhoff, Edward, Cincinnati, Ohio. Display-lid. No. 1,379,677; May 31; v. 286; p. 885.
- Bruni, Giuseppe, assignor to Firelli & Co., Milan, Italy. Vulcanization of rubber. No. 1,386,153; Aug. 2; v. 289; p. 38.
- Bruninga, John H., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Fastener and slug inserting machine. No. 1,394,467; Oct. 18.
- Bruninga, John H., and H. H. Reiss, assignors to Champion Shoe Machinery Company, St. Louis, Mo. Fastener and slug inserting machine. No. 1,394,468; Oct. 18.
- Brunk, Mary V., Kansas City, Mo. Cap, hat, and bonnet. No. 1,380,525; June 7; v. 287; p. 38.



## Alphabetical list of patentees—Continued.

- Bruno, Albert, Meudon, France. Protecting fabrics and packings such as bags, against chemical corrosive action. No. 1,367,177; Feb. 1; v. 283; p. 59.
- Brunner, John H., Allentown, Mo. Feed-cutter. No. 1,384,425; July 12; v. 288; p. 291.
- Brunnert, Anton, Old Monroe, Mo. Farm implement. No. 1,388,847; Aug. 30; v. 289; p. 806.
- Bruns, Alfred E., Brooklyn, N. Y. Container. No. 1,364,862; Jan. 11; v. 282; p. 201.
- Bruns, Emma A., Rice-ton, Saskatchewan, Canada. Combination tank and hose attachment. No. 1,369,390; Feb. 22; v. 283; p. 633.
- Brunswick-Balke-Collender Company, The. (See Bishop, Joseph W., assignor.)
- Brunswick-Balke-Collender Company, The. (See Judd, Earldley C. B., assignor.)
- Brunswick, Leonard R., Superior, Wis. Electrical boiler. No. 1,378,761; May 17; v. 286; p. 565.
- Brusa, Giacomo, *et al.* (See Brusa, Giacomo, assignor.)
- Brusa, Giacomo, assignor to Giacomo Brusa and The Dott. V. Borelli & Co., Turin, Italy. Manufacture of mercuric oxid. No. 1,397,076; Nov. 15.
- Brush, Alanson P., Detroit, Mich. Dual control of mechanism. No. 1,377,306; May 10; v. 286; p. 233.
- Brush, Alanson P., Detroit, Mich. Engine-lubricating system. No. 1,386,154; Aug. 2; v. 289; p. 38.
- Brush, Alanson P., Detroit, Mich. Universal joint. No. 1,391,756; Sept. 27; v. 290; p. 670.
- Brush, Alanson P., Detroit, Mich. Vehicle drive-axle. No. 1,401,580; Dec. 27.
- Brush, Alanson P., Detroit, Mich. Vehicle drive-axle. No. 1,401,581; Dec. 27.
- Brush, Alanson P., and O. M. Nacker, Detroit, Mich. Vehicle-wheel. No. 1,401,582; Dec. 27.
- Brush Electrical Engineering Company, Limited. (See Chilton, William, assignor.)
- Brush, Frederick F. (See Groat, L. E., and Brush.)
- Brush, Frederick F., Los Angeles, Calif., assignor to Elevator Safety Appliance Company. Door opening and closing device. No. 1,364,979; Jan. 11; v. 282; p. 224.
- Brush, Frederick F., Los Angeles, Calif., assignor to Elevator Safety Appliance Company. Automatic door-opening device. No. 1,381,168; June 21; v. 287; p. 460.
- Brush, Mittie T., Dublin, N. H. Aircraft. No. 1,367,295; Feb. 1; v. 283; p. 82.
- Bruun, Lars, Skien, Norway. Tenoning-machine. No. 1,382,621; June 28; v. 287; p. 601.
- Bryan, Aaron G., East St. Louis, Ill. Railway-tie. No. 1,394,272; Oct. 18.
- Bryan, Andrew J. (See Bush, H. L., and Bryan.)
- Bryan, Edgar J., assignor to F. Stebler, Riverside, Calif. Hand-truck. No. 1,397,719; Nov. 22.
- Bryan, George H. (See Bullock, E. W., Earl, and Bryan.)
- Bryan, George H. (See Bullock, E. W., Earl, and Bryan.)
- Bryan, Henry A., Madill, Okla. Air-brake system. No. 1,395,221; Oct. 25.
- Bryan, William C. (See Swalm, W. E., and Bryan.)
- Bryant, Charles W. (See Lindsay, Leroy J., assignor.)
- Bryant Electric Company, The. (See Anderson, Carl E., assignor.)
- Bryant Electric Company, The. (See Burton, Frank V., assignor.)
- Bryant Electric Company, The. (See Catlin, Hoyt, assignor.)
- Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)
- Bryant Electric Company, The. (See Loeffler, Fred W., assignor.)
- Bryant Electric Company, The. (See Renholdt, Charles A., assignor.)
- Bryant Electric Company, The. (See Thomas, George B., assignor.)
- Bryant, Elmer J., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Parallel for machine-tools and the like. No. 1,383,979; July 5; v. 288; p. 149.
- Bryant Heater and Manufacturing Company, The. (See Fox, Otto, assignor.)
- Bryant, Henry D., Springfield, Mass. Amusement device. No. 1,393,494; Oct. 11.
- Bryant, Joseph D., Appleby, Tex. Railway-tie. No. 1,375,773; Apr. 26; v. 285; p. 596.
- Bryant, L. J. (See Aton, William E. and W. J., assignors.)
- Bryant, Stanley C., Chicago, Ill. Highway-crossing signal. No. 1,379,678; May 31; v. 286; p. 885.
- Bryce, James W., Binghamton, N. Y. Recording-lock system. No. 1,390,017; Sept. 6; v. 290; p. 92.
- Bryce, James W., Binghamton, assignor to The International Time Recording Company, New York, N. Y. Recording-lock. No. 1,365,814; Jan. 18; v. 282; p. 425.
- Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Self-winding attachment for secondary clocks. No. 1,367,534; Feb. 8; v. 283; p. 188.
- Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Recording lock system. No. 1,376,796; May 3; v. 286; p. 79.
- Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Synchronizing clock systems. No. 1,377,000; May 3; v. 286; p. 118.
- Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Recording-lock. No. 1,378,652; May 17; v. 286; p. 544.
- Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Secondary clock. No. 1,378,653; May 17; v. 286; p. 544.
- Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Program battery-charging device. No. 1,382,622; June 28; v. 287; p. 601.
- Bryce, James W., Binghamton, assignor to The International Time Recording Company of New York. Synchronizing-clock system. No. 1,388,167; Aug. 23; v. 289; p. 617.
- Bryce, James W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Master-clock. No. 1,390,018; Sept. 6; v. 290; p. 93.
- Bryce, James W., Bloomfield, N. J., assignor to The Computing Scale Company, Dayton, Ohio. Automatic scale. No. 1,392,908; Oct. 11.
- Bryden, John A. (See McCutchen, U. R., Bryden, and Hall.)
- Brykowiec, John, Edmonton, Alberta, Canada. Potato-planter. No. 1,364,914; Jan. 11; v. 282; p. 211.
- Brynooldt, Christian, Pittsburgh, Pa., assignor to Blaw-Knox Company. Method of and apparatus for widening tunnels. No. 1,388,698; Aug. 23; v. 289; p. 722.
- Brynteson, Brynte, Odebolt, Iowa. Wireless corn-planter. No. 1,396,093; Nov. 8.
- Bryon, William J., New York, N. Y. Door closer and check. No. 1,364,830; Jan. 4; v. 282; p. 151.
- Bryson, John D. (See McConnell, C. D., and Bryson.)
- Bryson, Tandy A., Troy, N. Y., assignor to Tolhurst Machine Works. Centrifugal machine. No. 1,385,982; Aug. 2; v. 289; p. 4.
- Bryson, Walter S., *et al.* (See Dungan, John E., assignor.)
- Bubb, Harry A., Williamsport, Pa. Apparatus for the manufacture of carbon black. No. 1,367,178; Feb. 1; v. 283; p. 59.
- Bubb, Harry A., Williamsport, Pa. Gas-burner. No. 1,397,077; Nov. 15.
- Buc, Hym E., Roselle, assignor to Standard Oil Company, Bayonne, N. J. Production of pentachloracetone. No. 1,391,757; Sept. 27; v. 290; p. 670.
- Buc, Hym E., Roselle, assignor to Standard Oil Company, Bayonne, N. J. Chlorination. No. 1,391,758; Sept. 27; v. 290; p. 671.
- Buchan, William P., Minneapolis, Minn. Scale. No. 1,382,269; June 21; v. 287; p. 479.
- Buchanan, Charles G., Roseville, N. J. Magnetic separating apparatus. No. 1,365,965; Jan. 18; v. 282; p. 455.
- Buchanan, Charles G., Newark, N. J. Magnetic pulley. No. 1,365,966; Jan. 18; v. 282; p. 455.
- Buchanan, Charles G., Newark, N. J. Crusher-roll. No. 1,390,019; Sept. 6; v. 290; p. 93.
- Buchanan, Charles G., East Orange, N. J. Crusher. No. 1,386,764; Aug. 9; v. 289; p. 230.
- Buchanan, Edgar, Saline, Kans. Street-traffic signal. No. 1,378,320; May 17; v. 286; p. 480.
- Buchanan, Frank, Syracuse, N. Y. Mounting for headlights. No. 1,383,386; July 5; v. 288; p. 27.
- Buchanan, Frank L., Oakland, Calif. Composition for paint. No. 1,381,274; June 14; v. 287; p. 233.
- Buchanan, James R., Huntsville, Ala. Industrial card-record book. No. 1,378,654; May 17; v. 286; p. 544.
- Buchanan, John W., Chicago, Ill. Inverted knuckle-pin. No. 1,365,655; Jan. 18; v. 282; p. 393.
- Buchanan, John W., assignor of one-half to G. E. Sanford, Boston, Mass. Typewriter. No. 1,389,120; Aug. 30; v. 289; p. 861.
- Buchanan, Leroy H., Wisconsin Soldiers Home, Wis. Motor-vehicle-power-plant elevating appliance. No. 1,382,714; June 28; v. 287; p. 619.
- Buchanan, Robert S. (See Murray, J. A., and Buchanan.)
- Buchanan, Samuel P., *et al.* (See Mullins, John C., Jr., assignor.)
- Buchanan, Samuel P., Dungen, Ohio. Toy. No. 1,373,168; Mar. 29; v. 284; p. 864.
- Buchanan, Vita, New York, N. Y. Corset. No. 1,377,614; May 10; v. 286; p. 292.
- Buchberger, Karl, Albany, N. Y., assignor of one-half to E. Kreutzer. Chair or the like. No. 1,372,061; Mar. 22; v. 284; p. 606.
- Buchenberg, Alvin E., assignor to Electric Auto-Lite Corporation, Toledo, Ohio. Control for dynamo-electric systems. No. 1,398,064; Nov. 22.
- Buchenberg, Alvin E., assignor to Electric Auto-Lite Corporation, Toledo, Ohio. Dynamo-electric machine. No. 1,401,112; Dec. 20.
- Bucher and Gibbs Plow Company, The. (See Niesz, Franklin B., assignor.)
- Bucher, Henry. (See Joerges, Charles W., assignor.)
- Bucher, John W. (See Gross, F. D., Akins, and Bucher.)
- Buchholz, Clarence A., Berea, Ohio. Concealed trousers-support. No. 1,367,235; Feb. 1; v. 283; p. 70.
- Büchi, Albert, Klosters, Switzerland. Time-switch for photographic purposes. No. 1,390,336; Sept. 13; v. 290; p. 247.



- Büchi, Alfred, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine-fuel-supply system. No. 1,384,512; July 12; v. 288; p. 309.
- Büchler, G. J. (See Garver, Uriah D., assignor.)
- Buchman, Andrew G., Kenosha, Wis. Detachable rubber heel. No. 1,366,518; Jan. 25; v. 282; p. 607.
- Buchner, Leopold B., Fitzroy, Melbourne, Victoria, Australia. Luminous display apparatus. No. 1,398,835; Nov. 29.
- Buchner, Max, Hanover, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing hydroxids of metals by precipitating metallic salts with ammonia. No. 1,386,920; Aug. 9; v. 289; p. 262.
- Buchner, Max, Heidelberg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Washing, cleansing, and lubricating medium. No. 1,395,902; Nov. 1.
- Buchsbaum, Herbert J., Chicago, Ill. Belt-buckle. No. 1,375,774; Apr. 26; v. 285; p. 596.
- Buchsbaum, Samuel, Chicago, Ill. Belt-buckle. No. 1,387,919; Aug. 16; v. 289; p. 512.
- Buchsbaum, Samuel, Chicago, Ill. Belt-buckle. No. 1,393,425; Oct. 11.
- Buchsbaum, Samuel, Chicago, Ill. Clasp. No. 1,396,019; Nov. 8.
- Buchsbaum, Samuel, Chicago, Ill. Belt-buckle. No. 1,396,020; Nov. 8.
- Buchsbaum, Samuel, Chicago, Ill. Belt-buckle. No. 1,397,673; Nov. 22.
- Buchsbaum, Samuel, Chicago, Ill. Belt-buckle. No. 1,399,745; Dec. 13.
- Buchser, Frederick E. (See Davern, Stephen A., assignor.)
- Buchtel, Luise A., assignor to G. Wagener, New York, N. Y. Cutter for meat, vegetables, and pastry. No. 1,364,863; Jan. 11; v. 282; p. 201.
- Buchwald, Henry C., Baltimore, Md. Slug-casting machine. No. 1,372,932; Mar. 29; v. 284; p. 817.
- Buck, Abton A., Zurich, Switzerland. Rotary electric switch. No. 1,394,515; Oct. 18.
- Buck, Charles T., Waukegan, Ill. Ear device. No. 1,384,595; July 12; v. 288; p. 327.
- Buck, Clyde D., Battle Creek, Mich. Grinding-machine. No. 1,371,854; Mar. 15; v. 284; p. 510.
- Buck, David S., Pueblo, Colo. Toilet. No. 1,399,927; Dec. 13.
- Buck, Milton E., Ematon, Kans. Wire-stretcher. No. 1,396,502; Nov. 8.
- Buck, Ralph, St. Paris, Ohio. Automatic hog-feeder. No. 1,372,933; Mar. 29; v. 284; p. 817.
- Buck, Ralph, St. Paris, Ohio. Cherry-seeder. No. 1,373,298; Mar. 29; v. 284; p. 889.
- Buck, Thomas F., New Castle, Pa. Safety-fender for automobiles. No. 1,387,100; Aug. 9; v. 289; p. 298.
- Buckendale, Lawrence R., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee, Clutch. No. 1,384,511; July 12; v. 288; p. 309.
- Buckeye Iron and Brass Works. (See Eickman, Elmer H., assignor.)
- Buckeye Iron and Brass Works. (See Trace, Russell A., assignor.)
- Buckeye Steel Castings Company, The. (See Johnson, G. T., and Stertzbach, assignors.)
- Buckeye Steel Castings Company, The. (See Larsen, Jacob C., assignor.)
- Buckeye Steel Castings Company. (See Whitridge, John C., assignor.)
- Buckeye Traction Ditcher Company, The. (See George, Charles L., assignor.)
- Buckeye Traction Ditcher Company, The. (See Krupp, Leo A., assignor.)
- Buckham, George T. (See Dawson, A. T., and Buckham.)
- Buckham, George T., Westminster, London, England, assignor to Vickers Limited, Westminster, London, England. Chuck. No. 1,364,704; Jan. 4; v. 282; p. 127.
- Buckhart, James W., assignor to Port Orford Cedar Separator Company, San Francisco, Calif. Cutter-head for battery-spacer-making machines. No. 1,369,391; Feb. 22; v. 283; p. 633.
- Buckhout, William C., Yonkers, N. Y. Concrete-wall construction. No. 1,368,109; Feb. 8; v. 283; p. 297.
- Buckingham, Harry, *et al*, executors and trustees. (See Mathews, Thomas.)
- Buckingham, James F., Coventry, England. Live axle and countershaft for motor-vehicles. No. 1,381,063; June 7; v. 287; p. 142.
- Buckingham, William F. (See May, Theodore W., assignor.)
- Buckland, George G., San Francisco, Calif. Bicycle side car. No. 1,384,300; July 12; v. 288; p. 265.
- Buckle, Gerard F., St. Leonards-on-Sea, and F. Parfett, London, England; said Parfett assignor to said Buckle. Course-indicator or the like. No. 1,380,768; June 7; v. 287; p. 84.
- Buckley, Arthur H., Sydney, New South Wales, Australia. Combination-lock for automobiles. No. 1,377,307; May 10; v. 286; p. 234.
- Buckley, Arthur H., and R. A. Paddington, New South Wales, Australia. Starting-rheostat for electric motors. No. 1,368,694; Feb. 15; v. 283; p. 460.
- Buckley, Edwin W., Manchester, England. Siphonic controlling means for valves. No. 1,400,022; Dec. 13.
- Buckley, Harry H., assignor to Associated Engineers Company, Chicago, Ill. Renewing carbon and similar papers. No. 1,396,403; Nov. 8.
- Buckley, Harry S. (See Harvey, L. C., and Buckley.)
- Buckley, John. (See Clausen, J. C., and Buckley.)
- Buckley, John A., and J. Nadeau, Port Alberni, British Columbia; said Nadeau assignor of one-half of his right to R. Mullally, Vancouver, British Columbia, Canada. Wire-rope choker-sling. No. 1,391,457; Sept. 20; v. 290; p. 537.
- Buckley, John P., Capitol View Park, Md. Advertising-card. No. 1,379,392; May 24; v. 286; p. 757.
- Buckley, Oliver E., Maplewood, N. J., assignor to Western Electric Company Incorporated, New York, N. Y. Apparatus for exhausting to low pressures. No. 1,371,734; Mar. 15; v. 284; p. 487.
- Buckley, Oliver E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for measuring gas-pressures. No. 1,372,798; Mar. 29; v. 284; p. 789.
- Buckley, Reginald A. (See Buckley, Arthur H., and R. A.)
- Bucklin, Lorenzo O., trustee. (See Dock, Herman, assignor.)
- Buckman, Henry H., Jacksonville, Fla. Producing composite titanium pigments. No. 1,396,924; Nov. 15.
- Buckman, Henry H., Jacksonville, Fla., and G. A. Pritchard, New York, N. Y., assignors to Buckman & Pritchard, Inc., Jacksonville, Fla. Electrical insulator. No. 1,370,276; Mar. 1; v. 284; p. 99.
- Buckman, Henry H., Jacksonville, Fla., and G. A. Pritchard, New York, N. Y., assignors to Buckman & Pritchard, Inc., Jacksonville, Fla. Highly-refractory article and producing the same. No. 1,375,077; Apr. 19; v. 285; p. 432.
- Buckman & Pritchard. (See Buckman, H. H., and Pritchard, assignors.)
- Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Cutting-machine. No. 1,365,021; Jan. 11; v. 282; p. 233.
- Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Cutting-torch. No. 1,377,001; May 3; v. 286; p. 113.
- Bucknam, Worthy C., Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y. Torch-adjuster arm. No. 1,390,600; Sept. 13; v. 290; p. 301.
- Buckreis, Elmer J., Highwood, Ill. Ticket-holder. No. 1,400,519; Dec. 20.
- Buckwalter, Leon G. (See Hench, Martin K., assignor.)
- Buckwalter, Leon G. (See Ruff, Herbert, assignor.)
- Buckwalter, Leon G. (See Sykes, Lewis, assignor.)
- Buckwalter, Tracy V., Canton, Ohio, assignor to Timken Roller Bearing Company, Canton, Ohio. Guard for bearings. No. 1,364,705; Jan. 4; v. 282; p. 127.
- Buckwalter, Tracy V., Canton, Ohio. Apparatus for chilling bearings. No. 1,364,706; Jan. 4; v. 282; p. 127.
- Buckwalter, Tracy V., assignor to Timken Roller Bearing Company, Canton, Ohio. Method and mechanism for finishing rolls. No. 1,373,051; Mar. 29; v. 284; p. 840.
- Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Thrust-bearing. No. 1,375,359; Apr. 19; v. 285; p. 485.
- Buckwalter, Tracy V., assignor to Timken Roller Bearing Company, Canton, Ohio. Bearing-cage. No. 1,395,385; Nov. 1.
- Bucolo, Alfred, Washington, D. C. Cushion-heel. No. 1,385,901; July 26; v. 288; p. 751.
- Bucovaz, Antonio, *et al*. (See Hemphill, Henry B., assignor.)
- Bucyrus Company. (See Wilkie, E. J., Stevens, and Lehman, assignors.)
- Bucyrus Machine and Tool Co. (See Crum, Hollis B., assignor.)
- Bud, Charles H., New Albany, Ind. Saw-gage. No. 1,382,059; June 21; v. 287; p. 441.
- Buda Company, The. (See Dyer, Walter C., assignor.)
- Buda Company, The. (See Fowkes, W. H., and Harkless, assignors.)
- Buda Company. (See Fowkes, William H., assignor.)
- Buda Company, The. (See Harkless, Merl J., assignor.)
- Budd, Edward G., Manufacturing Company. (See Budd, Edward G., assignor.)
- Budd, Edward G., Manufacturing Company. (See Fry, Walter L., assignor.)
- Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
- Budd, Edward G., Manufacturing Company. (See Maise, Herman C., assignor.)
- Budd, Edward G., Manufacturing Company. (See Weaver, Clayton B., assignor.)
- Budd, Edward G., assignor to Budd Wheel Corporation, Philadelphia, Pa. Wire-spoked wheel. No. 1,388,021; Aug. 16; v. 289; p. 531.
- Budd, Edward G., assignor to Budd Wheel Corporation, Philadelphia, Pa. Hub structure of detachable wire-spoked wheels. No. 1,388,022; Aug. 16; v. 289; p. 532.
- Budd, Edward G., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Latch mechanism for automobile-doors. No. 1,395,477; Nov. 1.
- Budd, Harry, Independence, Kans. Gear-shifting mechanism. No. 1,370,947; Mar. 8; v. 284; p. 271.
- Budd, Lester, Philadelphia, Pa. Operating device for shaking-grates. No. 1,395,478; Nov. 1.



## Alphabetical list of patentees—Continued.

- Budd, Lester, Philadelphia, Pa. Grate. No. 1,400,722; Dec. 20.
- Budd, Thomas D., Chicago, Ill. Grain-elevator. No. 1,391,297; Sept. 20; v. 290; p. 504.
- Budd, Thomas D., Chicago, assignor of one-half to Link-Belt Company, Chicago, Ill., and one-half to James Stewart & Company, Inc., New York, N. Y. Grain-car-handling apparatus. No. 1,378,089; May 17; v. 286; p. 436.
- Budd Wheel Corporation. (See Budd, Edward G., assignor.)
- Budd Wheel Company. (See Fine, Lewis, assignor.)
- Budd Wheel Corporation. (See Ibach, Emil, assignor.)
- Budd Wheel Corporation. (See Ledwinka, Joseph, assignor.)
- Budde, Charles H. (See Budde, George W. and C. H.)
- Budde, George W. and C. H., St. Louis, Mo. Gas-burner. No. 1,367,296; Feb. 1; v. 283; p. 88.
- Budnich, John, West New York, N. J. Outside finish for frame houses. No. 1,379,330; May 24; v. 286; p. 745.
- Budlong, Frank M., San Jose, Calif. Deep-well pump. No. 1,373,712; Apr. 5; v. 285; p. 64.
- Budrow, Edward H., Meriden, assignor to The Steel Products Company, Hartford, Conn. Connecting device. No. 1,390,980; Sept. 20; v. 290; p. 439.
- Budzinsky, Tanas, New York, N. Y. Combination-faucet. No. 1,375,205; Apr. 19; v. 285; p. 457.
- Buebke, Charles M., assignor to P. F. Buebke, Portland, Oreg. Demountable baggage-rack for automobile running-boards. No. 1,393,200; Oct. 11.
- Buebke, Phillip F. (See Buebke, Charles M., assignor.)
- Buechel, Carl, New Glarus, Wis. Scaffold-bracket. No. 1,375,078; Apr. 19; v. 285; p. 432.
- Buechler, John R., Akron, Ohio. Patch for pneumatic tires. No. 1,375,825; Apr. 26; v. 285; p. 606.
- Buedingen, William L., Milwaukee, Wis. Music-roll container. No. 1,385,199; July 19; v. 288; p. 533.
- Buehler, Edward C., Chicago, Ill. Wrench for stop and waste cocks. No. 1,389,736; Sept. 6; v. 290; p. 35.
- Buehler, John J., Alliance, Ohio. Potato-bagging device. No. 1,376,249; Apr. 26; v. 285; p. 687.
- Buehler, Louis G. E., Chicago, Ill. Power-transmission gear. No. 1,389,622; Sept. 6; v. 290; p. 12.
- Buek, Louis H., Philadelphia, Pa., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoemaking. No. 1,365,765; Jan. 18; v. 282; p. 415.
- Buell, Charles H., assignor to Variety Manufacturing Company, Chicago, Ill. Automatic fire-shutter. No. 1,376,076; Apr. 26; v. 285; p. 655.
- Buente, Charles F., Avalon, Pa. Jarring-machine. No. 1,373,948; Apr. 5; v. 285; p. 111.
- Buerger, Charles B., assignor to The Atlantic Refining Company, Philadelphia, Pa. Control system for oil burners. No. 1,377,308; May 10; v. 286; p. 234.
- Buerger, Charles B., assignor to The Atlantic Refining Company, Philadelphia, Pa. Apparatus for removing coke from stills. No. 1,401,310; Dec. 27.
- Buerosse, Ernest, assignor of one-third to G. Buerosse, and one-third to G. J. Buerosse, Milwaukee, Wis. Electric-brush holder. No. 1,370,277; Mar. 1; v. 284; p. 99.
- Buerosse, George, *et al.* (See Buerosse, Ernest, assignor.)
- Buescher, Ferdinand A., Elkhart, Ind. Key-pad for wind musical instruments. No. 1,401,872; Dec. 27.
- Buettner, Charles H., Cincinnati, Ohio. Fixation of nitrates. No. 1,368,019; Feb. 8; v. 283; p. 280.
- Buettner, Charles H., Cincinnati, Ohio. Lubricating apparatus. No. 1,379,331; May 24; v. 286; p. 746.
- Buff, Frank L., Wichita, Kans. Traffic-signal. No. 1,391,240; Sept. 20; v. 290; p. 493.
- Buff, Jacob, Jersey City, N. J. Steam-condenser for clothes-presses. No. 1,389,434; Aug. 30; v. 289; p. 924.
- Buffalo Automobile Spring Company. (See Slater, William E., assignor.)
- Buffalo Dental Manufacturing Company. (See Lewis, Theodore G., assignor.)
- Buffalo Equipment & Construction Company. (See Weigen, Henry, assignor.)
- Buffalo Forge Company. (See Day, Arthur A., assignor.)
- Buffalo Foundry & Machine Co. (See Engel, Godfrey, Sr., assignor.)
- Buffalo Metal Goods Company. (See Emerson, William F., assignor.)
- Buffalo Pressed Steel Co. (See MacKenzie, R. J., and Haas, assignors.)
- Buffalo Pressed Steel Company. (See MacKenzie, R. J., and Haas, assignors.) (Reissue.)
- Buffalo Sled Company, The. (See Baumler, Albert J., assignor.)
- Buffalo-Springfield Roller Company, The. (See Jones, Henry D., assignor.)
- Bufton, Frank H. (See Ott, H. N., and Bufton.)
- Bugbee, Alvin, Trenton, N. J. Storage battery. No. 1,382,270; June 21; v. 287; p. 480.
- Bugbee, Lucian W., Indianapolis, Ind. Bifocal lens. No. 1,396,503; Nov. 8.
- Bugbee, Lucian W., assignor to One-piece Bifocal Lens Company, Indianapolis, Ind. Lens-polishing machine. No. 1,366,159; Jan. 18; v. 282; p. 492.
- Bugbee, Lucian W., assignor to Twinsight Optical Co., Indianapolis, Ind. Bifocal lens and making the same. No. 1,376,673; May 3; v. 286; p. 55.
- Bugbee, Lucian W., assignor to One-piece Bifocal Lens Company, Indianapolis, Ind. Lens-grinding machine. No. 1,387,232; Aug. 9; v. 289; p. 322.
- Bugbee, Lucian W., assignor to One-piece Bifocal Lens Company, Indianapolis, Ind. Means for polishing multifocal lenses. No. 1,397,399; Nov. 15.
- Bugbee, Lucian W., assignor to American Optical Company, Southbridge, Mass. Bifocal lens. No. 1,397,920; Nov. 22.
- Bugbee, Niles Company. (See King, Rufus, assignor.)
- Bugbird, Herbert C., *et al.* (See MacDougall, Archibald J., assignor.)
- Bugenhagen, George H., Minot, N. D. Lawn-swing. No. 1,364,610; Jan. 4; v. 282; p. 108.
- Bugenhagen, George H., Minot, N. D. Endless-chain tractor. No. 1,369,392; Feb. 22; v. 283; p. 633.
- Bugenhagen, George H., Minot, N. D. Lawn-swing. No. 1,378,004; May 17; v. 286; p. 420.
- Bugenhagen, George H., Minot, N. D. Game apparatus. No. 1,400,520; Dec. 20.
- Bugg, Owen T., Poughkeepsie, N. Y., assignor, by mesne assignments, to Canvas Inner Tube Company. Inner tube for tires. No. 1,373,485; Apr. 5; v. 285; p. 21.
- Buhl, Cay P., Passaic, N. J. Carbureter. No. 1,397,500; Nov. 22.
- Buhl, Oluf, Newell, Iowa. Firearm. No. 1,395,903; Nov. 1.
- Buhoup, Harry C., Chicago, Ill., assignor to The McComway & Torley Company, Pittsburgh, Pa. Draft appliance for railway-cars. No. 1,400,210; Dec. 13.
- Buhr, Joseph F., Detroit, Mich. Chuck. No. 1,392,678; Oct. 4.
- Buhr, Joseph F., Detroit, Mich. Drill-head. No. 1,394,709; Oct. 25.
- Buhr, Joseph F., Detroit, assignor to Detroit Pneumatic Chuck Company, Flat Rock, Mich. Pneumatic motor. No. 1,377,745; May 10; v. 286; p. 316.
- Buhrman, Catherine M., Graceham, assignor of one-fourth to H. W. Stull, one-fourth to R. M. Stull, and one-fourth to E. R. Stull, Rocky Ridge, Md. Window-ventilator. No. 1,390,878; Sept. 13; v. 290; p. 356.
- Buikema, Menno R., Morrison, Ill. Power-transmitting device. No. 1,364,707; Jan. 4; v. 282; p. 127.
- Buikema, Menno R., Morrison, Ill. Dirigible light. No. 1,364,708; Jan. 4; v. 282; p. 127.
- Buimistroff, Vladimir W., Washington, D. C. Direction-indicator for closed automobiles. No. 1,379,245; May 24; v. 286; p. 728.
- Buka, Simeon, Huntington, W. Va. Combined water-heater and shower-bath. No. 1,372,598; Mar. 22; v. 284; p. 709.
- Bukolt, John J., Stevens Point, Wis. Drawbar for tractors. No. 1,378,005; May 17; v. 286; p. 420.
- Bukolt, Roman E., Stevens Point, Wis. Child's pedaling-car. No. 1,385,070; June 28; v. 287; p. 686.
- Bukove, Charles A., Ute Park, N. Mex. Valve-grinder. No. 1,390,879; Sept. 13; v. 290; p. 357.
- Bull, Arthur W., Haverford, Pa. Cream-chip composition. No. 1,378,762; May 17; v. 286; p. 565.
- Bull, Charles A., assignor to The B. M. Products Company, Inc., Albion, Nebr. Tire-chain guard. No. 1,393,745; Oct. 18.
- Bull Dog Lock Washer Co., The. (See Holmes, G. R., and Wisch, assignors.)
- Bull, George E., Monessen, assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Reel-holder. No. 1,400,936; Dec. 20.
- Bull, George E., Monessen, assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Bale-tie machine. No. 1,400,937; Dec. 20.
- Bull, George F., Small Heath, Birmingham, assignor of one-half to C. H. Pugh, Limited, Birmingham, England. Thread-guide of spinning, twisting, doubling, and like frames. No. 1,392,743; Oct. 4.
- Bull, Henrik J., assignor to A/S Norske Saltverker, Bergen, Norway. Treatment of liquids containing sulfate of lime. No. 1,399,845; Dec. 13.
- Bull Tractor Company. (See Skarnes, Jay A., assignor.)
- Bulla, Melbern B., El Paso, Tex. Safety attachment for automatic train-stops. No. 1,387,233; Aug. 9; v. 289; p. 322.
- Bullard, Albert M., deceased, by M. R. Bullard, administratrix, Woodstock, N. Y., and J. N. Reynolds, Greenwich, Conn., assignors, by mesne assignments, to Western Electric Company, Incorporated. Controlling system for automatic switching systems. No. 1,386,686; Aug. 9; v. 289; p. 214.
- Bullard, Earl J., Madison, Wis. Compression-seal for pistons. No. 1,388,168; Aug. 23; v. 289; p. 617.
- Bullard, Edward P., Jr., assignor to The Bullard Machine Tool Company, Bridgeport, Conn. Tool-slide for machine-tools. No. 1,382,339; June 21; v. 287; p. 492.
- Bullard, Edward P., Jr., assignor to The Bullard Machine Tool Co., Bridgeport, Conn. Controlling means for machine-tools. No. 1,382,340; June 21; v. 287; p. 493.
- Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Wrench. No. 1,367,297; Feb. 1; v. 283; p. 82.



*Alphabetical list of patentees—Continued.*

- Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Chuck. No. 1,368,889; Feb. 15; v. 283; p. 497.
- Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Ratchet mechanism. No. 1,388,919; Aug. 30; v. 289; p. 821.
- Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Bit-brace. No. 1,388,920; Aug. 30; v. 289; p. 821.
- Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Brace-head. No. 1,388,921; Aug. 30; v. 289; p. 821.
- Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Brace-head. No. 1,388,922; Aug. 30; v. 289; p. 821.
- Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Ratchet mechanism. No. 1,388,923; Aug. 30; v. 289; p. 821.
- Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Bit-brace handle. No. 1,388,924; Aug. 30; v. 289; p. 822.
- Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Bit-brace handle. No. 1,388,925; Aug. 30; v. 289; p. 822.
- Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Ratchet mechanism. No. 1,388,926; Aug. 30; v. 289; p. 822.
- Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Ratchet mechanism. No. 1,388,927; Aug. 30; v. 289; p. 822.
- Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Brace-head. No. 1,388,928; Aug. 30; v. 289; p. 822.
- Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Ratchet mechanism. No. 1,388,929; Aug. 30; v. 289; p. 823.
- Bullard Machine Tool Company, The. (See Bullard, Edward P., Jr., assignor.)
- Bullard, Marion R., administratrix. (See Bullard, A. M., and Reynolds.)
- Bullen, Alfred S., and C. Jeayes, Auckland, New Zealand. Feeding mechanism for printing-machines. No. 1,396,622; Nov. 8.
- Bullen, John H., Lakewood, Ohio. Pump-valve. No. 1,382,408; June 21; v. 287; p. 506.
- Buller Coupler Co. (See Buller, Jacob W., assignor.)
- Buller, Henry W., Fremont, Neb. Insulator. No. 1,371,855; Mar. 15; v. 284; p. 510.
- Buller, Jacob W., assignor to Buller Coupler Co., Hillsboro, Kans. Truck and trailer coupling. No. 1,401,873; Dec. 27.
- Bulley, George W., Chicago, Ill. Vulcanizing apparatus. No. 1,380,463; June 7; v. 287; p. 26.
- Bulley, George W., St. Joseph, Mich. Bridge for inner tubes. No. 1,385,774; July 26; v. 288; p. 726.
- Bulley, Louis T., assignor to C. Cowles & Company, New Haven, Conn. Window-regulator. No. 1,365,370; Jan. 11; v. 282; p. 299.
- Bullis, Elbern E., Rouse Point, N. Y. Display-rack and holding means. No. 1,379,164; May 24; v. 286; p. 713.
- Bullis, Frank G., Vancouver, Wash. Spotlight for motor-vehicles. No. 1,387,347; Aug. 9; v. 289; p. 347.
- Bullock, Arthur R., Lakewood, Ohio. Road construction. No. 1,367,236; Feb. 1; v. 283; p. 71.
- Bullock, Arthur R., Lakewood, Ohio. Electrical system and control therefor. No. 1,375,486; Apr. 19; v. 285; p. 510.
- Bullock, Arthur R., Lakewood, Ohio. Electrolytic process for the treatment of carbon. No. 1,378,834; May 24; v. 286; p. 651.
- Bullock, Edward W. (See Stewart, A. L., Bullock, and Earl.)
- Bullock, Edward W., and G. H. Bryan, assignors to Gleason Works, Rochester, N. Y. Gear-cutting machine. No. 1,385,200; July 19; v. 288; p. 533.
- Bullock, Edward W., S. H. Earl and G. H. Bryan, assignors to Gleason Works, Rochester, N. Y. Brace for gear-cutting machines. No. 1,373,407; Apr. 5; v. 285; p. 6.
- Bullock, George E., Detroit, Mich. Tire. No. 1,381,105; June 14; v. 287; p. 202.
- Bullôt, Louis, F., Sydney, New South Wales, Australia. Preserving meat and alimentary substances. No. 1,398,836; Nov. 29.
- Bullum, Steve, Los Angeles, Calif. Combination slip-socket. No. 1,365,086; Jan. 11; v. 282; p. 244.
- Bullum, Steve, San Luis Obispo, Calif. Clamp. No. 1,396,353; Nov. 8.
- Bulwaid, Elvah O., Grand Rapids, Mich. Latch construction. No. 1,383,523; July 5; v. 288; p. 54.
- Bulman, Elvah O., Grand Rapids, Mich. Paper-roll holder and cutter. No. 1,400,521; Dec. 20.
- Bulow, Carl V., Bridgeport, Conn. Joint. No. 1,391,364; Sept. 20; v. 290; p. 518.
- Bulthouse, John, Chicago, Ill. Wire-holder for trolleys. No. 1,367,535; Feb. 8; v. 283; p. 188.
- Bumbarger, Clarence R., assignor to The Geo. W. Johnson Mfg. Co., Kansas City, Mo. Fire-door. No. 1,369,518; Feb. 22; v. 283; p. 658.
- Bumbarger, Clarence R., assignor to George W. Johnson Manufacturing Company, Kansas City, Mo. Latch. No. 1,386,551; Aug. 2; v. 289; p. 114.
- Bumgardner, Adam G., Clarksburg, W. Va. Rack. No. 1,395,989; Nov. 1.
- Bump, Nelson P., Bridgeport, Conn., assignor to C. C. Williams, Acting Chief of Ordnance, U. S. Army, trustee. Gun-stock for rifles, guns, and small-arms. No. 1,376,917; May 3; v. 286; p. 103.
- Bumpass, Cecil A., assignor of one-half to A. H. Potsch, Genesee, Idaho. Shoe and leather dressing. No. 1,382,468; June 21; v. 287; p. 518.
- Bumpass, Leonard E., Dallas, Tex. Means for protecting vaults. No. 1,374,055; Apr. 5; v. 285; p. 131.
- Bunce, Elmer W., Minneapolis, Minn. Dental water-heater. No. 1,373,116; Mar. 29; v. 284; p. 852.
- Buncher, John H. (See Wright, Roland T., assignor.)
- Bundy, Glenn J., assignor to Detroit Battery Company, Detroit, Mich. Battery-cover. No. 1,398,358; Nov. 29.
- Bundy, Harry W., Detroit, Mich. Steering-wheel. No. 1,375,128; Apr. 19; v. 285; p. 442.
- Bundy, Harry W., Detroit, Mich. Steering-wheel. No. 1,375,670; Apr. 26; v. 285; p. 578.
- Bundy, Harry W., Detroit, Mich. Steering-wheel. No. 1,381,964; June 21; v. 287; p. 423.
- Bundy, Harry W., Detroit, Mich. Steering-wheel. No. 1,396,990; Nov. 15.
- Bunell, Homer A. (See Burtnett, Everett R., assignor.)
- Bungay, George W., Brooklyn, N. Y., assignor to Acme Die Casting Corporation. Die-casting machine. No. 1,398,314; Nov. 29.
- Bunger, August, Hoboken, N. J. Antistatic friction device. No. 1,396,318; Nov. 8.
- Bunker, Charles A., Kansas City, Mo. Stopper for containers. No. 1,378,995; May 24; v. 286; p. 682.
- Bunker, Darius W., Brookline, and C. M. Bradford, Dorchester, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Insole and making. No. 1,382,818; June 28; v. 287; p. 63.
- Bunker, William G., Augusta, Me. Combined toilet and lavatory. No. 1,395,479; Nov. 1.
- Bunnell, George H., and B. E. Titus, Midway, Utah. Vulcanizer. No. 1,393,495; Oct. 11.
- Bunnell, Horry C., Westport, N. Y. Railway-tie brace. No. 1,390,756; Sept. 13; v. 290; p. 232.
- Bunnell, M. Dick. (See Nagai, Nagayoshi, assignor.)
- Bunnell, M. Dick. (See Nagai, Wilhelm N., assignor.)
- Bunnell, Rose P., administratrix. (See Bunnell, W. O., and Gates.)
- Bunnell, William O., deceased, and Q. A. Gates, Wilkes-Barre, Pa.; R. P. Bunnell, administratrix. Boot and shoe toe protector. No. 1,383,905; July 5; v. 288; p. 134.
- Bunt, James W., Denver, Colo. Rocker-swing. No. 1,369,616; Feb. 22; v. 283; p. 677.
- Bunte Brothers. (See Bernotow, Dominick M., assignor.)
- Bunting Iron Works. (See Driscoll, Dennis L., assignor.)
- Buonocore, Roberto, and F. Capaldo, Naples, Italy. Explosion-motor. No. 1,373,862; Apr. 5; v. 285; p. 94.
- Bunzel, Ernest, Plymouth Meeting, Pa. Quick-acting demountable rim. No. 1,397,573; Nov. 22.
- Burak, Alexander. (See Vasylyk, John, and Burak.)
- Burbank, Louis S., Ludlow, Mass., assignor to Ludlow Manufacturing Associates. Picker-check means for loom. No. 1,380,465; June 7; v. 287; p. 27.
- Burch, Eli F., Laurel Springs, N. J. Distilling petroleum. No. 1,396,249; Nov. 8.
- Burch, Frederick W., Pueblo, Colo. Ratchet mechanism for camp-beds. No. 1,366,241; Jan. 18; v. 282; p. 509.
- Burch, Julius G., Bartlesville, Okla. Device for cutting wire cable. No. 1,374,278; Apr. 12; v. 285; p. 215.
- Burch Plow Works Company, The. (See Foster, Harry C., assignor.)
- Burch, Walter S., and W. A. Schell, assignors to Rochester Railway & Light Company, Rochester, N. Y. Electric furnace. No. 1,386,155; Aug. 2; v. 289; p. 38.
- Burd High Compression Ring Company. (See Winquist, Victor, assignor.)
- Burdett, John B., Glencoe, assignor to Burdett Manufacturing Company, Chicago, Ill. Large-capacity cell for generating hydrogen and oxygen. No. 1,368,206; Feb. 8; v. 283; p. 316.
- Burdett Manufacturing Company. (See Burdett, John B., assignor.)
- Burdett Oxygen Company. (See Peir, A. H., Peterson, and Molas, assignors.)
- Burdette, Richard S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Air-bag and wrapping the same. No. 1,379,598; May 24; v. 286; p. 795.
- Burdge, Jefferson S., Huntington Park, Calif. Road structure and making. No. 1,390,194; Sept. 6; v. 290; p. 128.
- Burditt, William F., Jr., Lyons Farms, N. J. Press. No. 1,395,386; Nov. 1.
- Buren, Albert E., and M. T. Henderson, Sedalia, Mo. Lubricating-alarm for engines. No. 1,369,321; Feb. 22; v. 283; p. 619.
- Burg, Bertha R., San Diego, Calif. Buckle. No. 1,393,881; Oct. 18.
- Burge, Clarence B. (See Shanklin, C. E., and Burge.)
- Burge, Clarence W., Parkersburg, W. Va. Chain-fastener. No. 1,394,666; Oct. 25.
- Burger, Clarence W. (See Smith, J. E., and Burger.)



*Alphabetical list of patentees—Continued.*

- Burger, Ellsworth, Ridgewood, N. J., assignor to American Abrasive Metals Company, New York, N. Y. Vault-cover. No. 1,377,802; May 10; v. 286; p. 329.
- Burger, Joseph, Richmond Hill, N. Y. Last-marker. No. 1,389,857; Sept. 6; v. 290; p. 60.
- Burger, Leopold F., Riverside, Ill., assignor, by mesne assignments, to International Harvester Company. Carbureter. No. 1,395,387; Nov. 1.
- Burges, Austin E., Jacksonville, Tex. Cotton-picking machine. No. 1,371,468; Mar. 15; v. 284; p. 436.
- Burgess Battery Company. (See Burgess, Charles F., assignors.) (Reissue.)
- Burgess Battery Company. (See Knabe, Henry A., assignor.)
- Burgess Battery Company. (See Maisel, Lorenz, assignor.)
- Burgess Battery Company. (See Schorger, Arlie W., assignor.)
- Burgess Battery Company. (See Schutte, Walter B., assignor.)
- Burgess, C. F., Laboratories. (See Weiss, Howard F., assignor.)
- Burgess, Charles F., assignor, by mesne assignments, to Burgess Battery Company, Madison, Wis. Hand lamp. (Reissue.) No. 15,022; Jan. 11; v. 282; p. 351.
- Burgess, Earl F., Racine, Wis. Vehicle-spring-retaining means. No. 1,379,798; May 31; v. 286; p. 907.
- Burgess, Edward W., assignor to A. O. Smith Corporation, Milwaukee, Wis. Storage building and hoist. No. 1,369,393; Feb. 22; v. 283; p. 634.
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Grain-shock loader. No. 1,385,939; July 26; v. 288; p. 758.
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Tillage implement. No. 1,388,930; Aug. 30; v. 289; p. 823.
- Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Draft connection. No. 1,400,861; Dec. 20.
- Burgess, Frank R., Ottawa, Ontario, Canada. Scrub-cart. No. 1,369,780; Mar. 1; v. 284; p. 5.
- Burgess, George F. (See Burgess, John W. and G. F.)
- Burgess, John W. and G. F., Kansas City, Mo. Inner tire cushion. No. 1,375,032; Apr. 19; v. 285; p. 423.
- Burgess, Louis, New York, N. Y., assignor to Standard Oil Company. Reducing aluminum oxid. No. 1,379,523; May 24; v. 286; p. 782.
- Burgess, Louis, New York, N. Y., assignor to Standard Oil Company. Treating residues resulting from the treatment of hydrocarbon with aluminum chloride. No. 1,401,113; Dec. 20.
- Burgess, Robert. (See Jones, Joseph H., assignor.)
- Burgess, Thomas, Danvers, Mass. Hobby-horse. No. 1,371,735; Mar. 15; v. 284; p. 487.
- Burgess, Walter S. (See Duffy, Thomas I., assignor.)
- Burgess, Walter S. (See Voight, George F., assignor.)
- Burgess, William S., Marblehead, Mass., assignor to Curtiss Aeroplane and Motor Corporation. Pontoon-mounting for hydroaeroplanes. No. 1,373,408; Apr. 5; v. 285; p. 5.
- Burgess, William S., assignor to Curtiss Aeroplane and Motor Corporation, Marblehead, Mass. Longitudinal control system for aircraft. No. 1,368,542; Feb. 15; v. 283; p. 430.
- Burghardt, Linus F., Westfield, N. Y. Labeling-machine. No. 1,385,303; July 19; v. 288; p. 553.
- Burghart, Thomas N., Philadelphia, Pa. Thief-trap. No. 1,368,543; Feb. 15; v. 283; p. 430.
- Burner, Aaron A., assignor of one-half to H. R. Ford, Jacksonville, Fla. Spring-roller attachment for windows and doors. No. 1,384,596; July 12; v. 288; p. 327.
- Burgoyne, John L., San Francisco, Calif. Index-tab. No. 1,400,862; Dec. 20.
- Burgstesser, Abram K., assignor to Norristown Magnesia and Asbestos Co., Norristown, Pa. Pipe-covering and fabric from which pipe-coverings are made. No. 1,387,348; Aug. 9; v. 289; p. 247.
- Burhans, Harry H., Newark, N. J. Automatic ball-mill feeder. No. 1,395,089; Oct. 25.
- Burhorn, Edwin, Hoboken, N. J. Cooling-tower. No. 1,394,605; Oct. 25.
- Burk, Joe E., San Bernardino, Calif. Rim-contractor. No. 1,379,679; May 31; v. 286; p. 885.
- Burkam, John. (See Heiby, C. G., Burkam, Lindquist, Rigin, Allen, and Lau.)
- Burke, Alice S., New York, N. Y. Alignment device for manifold-sheets. No. 1,395,255; Nov. 1.
- Burke, Andrew J., New Haven, Conn. Tool. No. 1,387,234; Aug. 9; v. 289; p. 322.
- Burke, Charles A. (See Palmer, Herbert R., assignor.)
- Burke, Charles E., Carneys Point, and G. Barnhart, Woodstown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Treating apparatus. No. 1,399,102; Dec. 6.
- Burke, Charles R., Chicago, Ill. Safety-razor. No. 1,384,044; July 12; v. 288; p. 212.
- Burke, Charles R., Tulsa, Okla., assignor to L. P. Burke, Washington, D. C. Refining hydrocarbons. No. 1,389,934; Sept. 6; v. 290; p. 76.
- Burke, Clarence B., Plymouth Meeting, Pa. Draft-controlling device for heaters. No. 1,375,248; Apr. 19; v. 285; p. 464.
- Burke, Edward F., assignor of one-fourth to J. M. Lichty, Sioux City, Iowa. Wrecking-tool. No. 1,389,183; Aug. 30; v. 289; p. 874.
- Burke Electric Company. (See Burke, James, assignor.)
- Burke, Harry C., Santa Ana, Calif. Clamping device for detail-strips. No. 1,393,342; Oct. 11.
- Burke & James. (See Davis, Ernest W., assignor.)
- Burke, James, Erie, Pa., assignor to Burke Electric Company. Direct-current motor. No. 1,365,302; Jan. 11; v. 282; p. 286.
- Burke, James, assignor to Burke Electric Company, Erie, Pa. Alternating-current motor and generator. No. 1,367,298; Feb. 1; v. 283; p. 82.
- Burke, John H., and O. A. Wilming, San Jose, Calif. Vacuum-chuck. No. 1,377,558; May 10; v. 286; p. 281.
- Burke, John J., and A. L. Adams, New York, N. Y. Matrix-cleaning apparatus. No. 1,371,221; Mar. 15; v. 284; p. 386.
- Burke, John J., and A. L. Adams, New York, N. Y. Matrix-handling means. No. 1,371,222; Mar. 15; v. 284; p. 386.
- Burke, Joseph H., Portland, Me. Saw-guard. No. 1,383,285; July 5; v. 288; p. 5.
- Burke, Joseph H., Portland, Me. Circular-saw guard. No. 1,392,396; Oct. 4.
- Burke, Joseph P. (See Pirdun, L., and Burke.)
- Burke, Lulu P. (See Burke, Charles R., assignor.)
- Burke, Michael, Mount Pleasant, Iowa. Derrick. No. 1,396,250; Nov. 8.
- Burke, Peter W. (See Greene, T. J., and Burke.)
- Burke, Wilbur B., Cleveland, Ohio, assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Packing-joint. No. 1,365,151; Jan. 11; v. 282; p. 257.
- Burke, Wilbur B., Cleveland, assignor to The Electric Vulcanizing Rubber Company, Akron, Ohio. Apparatus for vulcanizing rubber. No. 1,375,360; Apr. 19; v. 285; p. 486.
- Burke, William J., San Francisco, Calif. Camp table and box. No. 1,378,441; May 17; v. 286; p. 503.
- Burke, William J., Youngstown, Ohio. Safety device. No. 1,401,874; Dec. 27.
- Burkel, Mathew J., and Paul B. Weis, Aurora, assignors to C. E. Mehlhove, trustee, Winnetka, Ill. Engine for drilling-machines. No. 1,369,082; Feb. 22; v. 283; p. 574.
- Burkert, Henry, New York, N. Y. Hygienic can-server. No. 1,366,714; Jan. 25; v. 282; p. 646.
- Burket, Henry W. (See Gregory, G. T., and Burket.)
- Burkhardt, Curt R., Teaneck, N. J. Ridge-saddle. No. 1,387,235; Aug. 9; v. 289; p. 323.
- Burkhardt, Daniel D. (See Gregory, William S., assignor.)
- Burkhardt, Herman, Rueschlikon, Switzerland. Fountain drawing-pen. No. 1,374,426; Apr. 12; v. 285; p. 244.
- Burkholder, John H., assignor to Elite Manufacturing Company, Ashland, Ohio. Jack. No. 1,394,141; Oct. 18.
- Burkholder, Melvin H. (See Detwiler, F. J., and Burkholder.)
- Burkholder, Oscar E., San Francisco, Calif. Securing-pin. No. 1,373,596; Apr. 5; v. 285; p. 42.
- Burklea, Peter, Library, Pa. Switch-throw. No. 1,393,496; Oct. 11.
- Burky, Edward L., Drexel Hill, assignor of one-half to F. C. Spaulding, Ardmore, Pa. Automatic safety-latch for furnace-doors. No. 1,371,547; Mar. 15; v. 284; p. 452.
- Burlat, Antoine, and A. Renaudin, Lyon, France. Motor-cycle. No. 1,394,516; Oct. 18.
- Burleson, Ben N. (See Williamson, Daniel E., assignor.)
- Burlew, Gilderoy O., Newark, N. J. Elastic collar for polishing and grinding wheels. No. 1,386,988; Aug. 9; v. 289; p. 276.
- Burman, Frank V., Marine City, Mich. Pulp-drier. No. 1,370,085; Mar. 1; v. 284; p. 62.
- Burman, Olof S., Minneapolis, Minn. Faucet and attaching-bracket. No. 1,398,767; Nov. 29.
- Burmeister, John. (See Davis, John T., assignor.)
- Burn, Wilfred L. (See Booth, Seth J., Terreault, and Burn.)
- Burnap, Charles E., deceased; S. Burnap, administratrix, assignor to The C. F. Pease Company, Chicago, Ill. Drawing-pen. No. 1,384,232; July 12; v. 288; p. 251.
- Burnap, Sarah, administratrix. (See Burnap, Charles E.)
- Burndahl, John E., Chicago, Ill. Tool-handle. No. 1,384,887; July 19; v. 288; p. 468.
- Burnen, Bernard C., New York, N. Y. Valve-lifter. No. 1,389,564; Aug. 30; v. 289; p. 949.
- Burner, William L., assignor to The Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio. Truck-coupling. No. 1,375,775; Apr. 26; v. 285; p. 596.
- Burner, William L., and J. H. Cotton, assignors to The Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Dump-car. No. 1,364,349; Jan. 4; v. 282; p. 59.
- Burnes, Edward A., St. Louis, Mo. Universal joint. No. 1,390,668; Sept. 13; v. 290; p. 315.
- Burnett, Charles C. (See Crawford, Frank, assignor.)
- Burnett, Charles E., Wolcott, N. Y. Vehicle-body support. No. 1,375,556; Apr. 19; v. 285; p. 523.
- Burnett, Charley, Washington Court House, Ohio. Hog-oiler. No. 1,389,435; Aug. 30; v. 289; p. 924.
- Burnett, Frances H., et al., executors. (See Fahnestock, Ernest B.)



*Alphabetical list of patentees—Continued.*

- Burnett, Ira A., Chicago, Ill. Attachment for pulleys. No. 1,376,742; May 3; v. 286; p. 68.
- Burnett, Richard W., Chicago, Ill. Means for holding train-pipes and angle-cocks. No. 1,369,617; Feb. 22; v. 283; p. 678.
- Burnett, Richard W., Chicago, Ill. End reinforcement for railway box-cars. No. 1,397,674; Nov. 22.
- Burney, Charles D., Alresford, England. Apparatus for offense or defense against submerged or partially-submerged obstructions. No. 1,400,211; Dec. 13.
- Burnham, Donald C. (See Porter, Robert S., assignor.)
- Burnham, Francis H., Brockton, Mass. Trolley-controlling device. No. 1,376,918; May 3; v. 286; p. 103.
- Burnham, Frederick S., Wellesley, Mass. Apparatus for washing and sterilizing bottles. No. 1,400,797; Dec. 20.
- Burnham, George A., Saugus, assignor, to S. B. Condit, Jr., Brookline, Mass. Dash-pot. No. 1,364,980; Jan. 11; v. 282; p. 224.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Electric switch. No. 1,390,492; Sept. 13; v. 290; p. 278.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Boston, Mass. Electric switch. No. 1,390,493; Sept. 13; v. 290; p. 279.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Lockout-relay. No. 1,391,241; Sept. 20; v. 290; p. 493.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Electrically-operated circuit-breaker. No. 1,396,094; Nov. 8.
- Burnham, George A., Saugus, assignor to Sears B. Condit, Jr., Brookline, Mass. Cover-lock. No. 1,398,499; Nov. 29.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Oil-switch. No. 1,399,460; Dec. 6.
- Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Oil dash-pot. No. 1,400,863; Dec. 20.
- Burnham, George B., Borosolvay, Calif. Recovering borax from saline waters. No. 1,370,278; Mar. 1; v. 284; p. 99.
- Burnham, Locke H., Pittsfield, Mass., assignor to General Electric Company. Winding for electrical apparatus. No. 1,386,838; Aug. 9; v. 289; p. 246.
- Burningham, Foster A., G. A. Richter, W. B. Van Arsdale, and D. H. White, assignors to Brown Company, Berlin, N. H. Waterproof fiber tube and making the same. No. 1,396,021; Nov. 8.
- Burnis, Louis, *et al.* (See Williams, Frank, assignor.)
- Burns, Archibald E. (See Friendly, H. M., and Burns.)
- Burns, Bartholomew P., assignor of one-third to J. V. Lavery, Chicago, Ill. Adjustable back-rest. No. 1,365,223; Jan. 11; v. 282; p. 271.
- Burns, Fred W., Johnstown, Pa. Hose-coupling. No. 1,384,045; July 12; v. 288; p. 212.
- Burns, Henry H., Battle Creek, Mich. Jack. No. 1,365,656; Jan. 18; v. 282; p. 393.
- Burns, Jabez, & Sons. (See Greene, Richard A., assignor.)
- Burns, James L., Anamosa, Iowa. Toilet tank and valve. No. 1,370,781; Mar. 8; v. 284; p. 241.
- Burns, John E., Flushing, N. Y. Casting-machine. No. 1,373,794; Apr. 5; v. 285; p. 80.
- Burns, John F., St. Louis, Mo. Milk-bottle. No. 1,366,056; Jan. 18; v. 282; p. 472.
- Burns, John F., St. Louis, Mo. Jar and apparatus for cold-pack canning fruits and vegetables. No. 1,396,723; Nov. 15.
- Burns, Joseph, Okmulgee, Okla. Temper-screw. No. 1,394,710; Oct. 25.
- Burns, Joseph E., Syracuse, N. Y. Cutting-tool. No. 1,388,547; Aug. 23; v. 289; p. 693.
- Burns, Kathryn L., assignor to Ovida Co., New York, N. Y. Diaphragm-confiner. No. 1,393,609; Oct. 11.
- Burns, Patrick F., Baltimore, Md. Casing and piling construction. No. 1,399,846; Dec. 13.
- Burns, Peter C., assignor to American Electric Co., Chicago, Ill. Telephone desk set. No. 1,381,903; June 21; v. 287; p. 412.
- Burns, Robert H. (See Boyd, W. A., and Burns.)
- Burns, Robert L., and F. F. Winger, Taft, Calif. Sucker-rod attachment to prevent sanding up of well-pumps. No. 1,379,165; May 24; v. 286; p. 713.
- Burns, Thomas A., and D. J. Huether, assignors to Dunlop Tire and Rubber Goods Company, Limited, Toronto, Ontario, Canada. Apparatus for solutioning tire-heads. No. 1,395,036; Oct. 25.
- Burns, Thomas C., and F. K. Huffman, assignors to Hayes Wheel Company, Jackson, Mich. Disk wheel. No. 1,365,452; Jan. 11; v. 282; p. 315.
- Burns, Wilford E., assignor to M. J. Brandenstein & Co., San Francisco, Calif. Can-testing machine. No. 1,378,215; May 17; v. 286; p. 460.
- Burns, William A., London, England. Stair-rod. No. 1,397,618; Nov. 22.
- Burns, William H., St. Paul, Minn. Sliding-door fastener. No. 1,381,891; June 14; v. 287; p. 350.
- Burns, William J., Detroit, Mich. Camp kit. No. 1,377,391; May 10; v. 286; p. 250.
- Burns, William T. (See Ditch, J. H., and Burns.)
- Burnside, Arthur E., South Jacksonville, Fla. Automobile-jack. No. 1,392,297; Oct. 4.
- Burpee, Edward A., Renton, Wash. Tool for restoring swage-bits. No. 1,378,006; May 17; v. 286; p. 420.
- Burrage, Albert C., Jr., Hamilton, and G. Meisel, assignors to Atlantic Dyestuff Company, Burrage, Mass. Preparing sulfur-black and the product thereof. No. 1,383,071; June 28; v. 287; p. 687.
- Burrage, Albert C., Jr., Hamilton, and G. Meisel, assignors to Atlantic Dyestuff Company, Burrage, Mass. Sulfur-black. No. 1,383,072; June 28; v. 287; p. 687.
- Burrage, George B., *et al.*, trustees. (See Stephenson, Leigh J., assignor.)
- Burrell, Ernest L., Chicago, Ill. Power-transmission belt. No. 1,396,925; Nov. 15.
- Burrell, G. A., New York, N. Y., C. L. Voress, and V. C. Canter, Bradford, Pa., assignors to Gasoline Recovery Corporation. Dissipating heat in process for extracting vapors from gaseous mixtures. No. 1,382,889; June 28; v. 287; p. 652.
- Burrell, George A., New York, N. Y., Clyde L. Voress, and V. C. Canter, Bradford, Pa., assignors to Gasoline Recovery Corporation. Process and apparatus for recovering and recondensing gasoline, naphtha, and the like. No. 1,382,890; June 28; v. 287; p. 652.
- Burrell, William C., Kankakee, Ill., and J. Bellingham, assignors to said Bellingham and W. B. Chennells, Masterton, New Zealand. Block-press. No. 1,374,818; Apr. 12; v. 285; p. 319.
- Burres, Albert B., Sedro Woolley, Wash. Gas-tank safety-lock. No. 1,372,400; Mar. 22; v. 284; p. 671.
- Burress, John R., Tulsa, Okla. Automatic switch-point-locking device. No. 1,393,662; Oct. 11.
- Burrill, Elvyn F., Berkeley, Calif. Aerial apparatus or flying-machine. No. 1,397,400; Nov. 15.
- Burris, George V., Courtland, Calif. Signal. No. 1,374,427; Apr. 12; v. 285; p. 244.
- Burris, George V., Courtland, Calif. Harness-buckle. No. 1,382,469; June 21; v. 287; p. 518.
- Burritt, Chauncey D., Cadillac, Mich. Relishing-machine. No. 1,400,864; Dec. 20.
- Burritt, Raymond K., Seligman, Ariz. Refrigerator. No. 1,380,188; May 31; v. 286; p. 981.
- Burrmann, Henry, Davenport, Iowa. Shock-absorber. No. 1,372,934; Mar. 29; v. 284; p. 818.
- Burrmann, Henry, Davenport, Iowa. Rolling-hoop advertiser. No. 1,376,601; May 3; v. 286; p. 42.
- Burrmann, Henry, Davenport, Iowa. Stock watering and feeding machine. No. 1,381,400; June 14; v. 287; p. 256.
- Burroughs Adding Machine Company. (See Gascon, Malcolm F., assignor.)
- Burroughs Adding Machine Company. (See Gooch, Claiborne W., assignor.)
- Burroughs Adding Machine Company. (See Magnus, John, assignor.)
- Burroughs Adding Machine Company. (See Muller, Robert L., assignor.)
- Burroughs Adding Machine Company. (See Pasinski, Walter J., assignor.)
- Burroughs Adding Machine Company. (See Rinsche, Frank C., assignor.)
- Burroughs, Arthur S. (See Dutro, O. V., and Burroughs.)
- Burroughs, Charles E., Cincinnati, Ohio. Propeller. No. 1,378,655; May 17; v. 286; p. 544.
- Burroughs, Charles F., East Orange, assignor to Composition Machinery Corporation, Newark, N. J. Float for valve regulator and making the same. No. 1,396,926; Nov. 15.
- Burroughs, James W., Roanoke, Va. Universal handle for tools. No. 1,365,453; Jan. 11; v. 282; p. 315.
- Burrows, E. T., Company, The. (See Cole, Warren W., assignor.)
- Burrows, Sidney, Niagara Falls, Ontario, Canada. Current-regulator for electric furnaces. No. 1,385,974; July 26; v. 288; p. 765.
- Burrows, Robert J., Buchanan, Mich. Automobile-truck. No. 1,390,757; Sept. 13; v. 290; p. 332.
- Burrows, Sidney V. (See George, Alfred K., assignor.)
- Burrows, Spencer F., *et al.* (See Badder, Harry C., assignor.)
- Burrows, William E., St. Joseph, Mo. Vehicle-jack. No. 1,389,737; Sept. 6; v. 290; p. 36.
- Burrows, Albert E. (See Fulwider, O. M., and Burrows.)
- Bursell, Charles A., *et al.* (See Ahlmgren, Walborg, assignor.)
- Burson, Wilson W., assignor to B. Z. B. Knitting Co., Rockford, Ill. Needle for knitting-machines. No. 1,391,043; Sept. 20; v. 290; p. 453.
- Burstall, William H., assignor of one-half to E. J. Diedrich, Oxnard, Calif. Tool-wrench. No. 1,369,962; Mar. 1; v. 284; p. 40.
- Burt, Clement P., Wallis, Tex. Stock-chute for dipping-vats. No. 1,380,189; May 31; v. 286; p. 981.
- Burt, F. N., Company, Limited. (See Dreux, Alexander H., assignor.)
- Burt, F. N., Company. (See Palmer, Lyndon C., assignor.)
- Burt, James H., Springfield, Mass., assignor to Thrift-Garter Co. Inc., New York, N. Y. Garment-supporter. No. 1,378,656; May 17; v. 286; p. 544.
- Burt, James H., Springfield, Mass., assignor to Thrift-Garter Co. Inc., New York, N. Y. Hose-supporter. No. 1,391,298; Sept. 20; v. 290; p. 505.
- Burt, Leslie N. (See Richards, G., Burt, and Freeborn.)
- Burt Machine Company. (See Wild, Charles H., assignor.)



## Alphabetical list of patentees—Continued.

- Burt, William, Stockport, England. Button. No. 1,368,695; Feb. 15; v. 238; p. 460.
- Burtis, Walter L., Tuckahoe, N. Y. Casement-holder. No. 1,398,768; Nov. 29.
- Burnett, Everett R., assignor of one-half to H. A. Bunell, Los Angeles, Calif. Engine. No. 1,377,462; May 10; v. 286; p. 264.
- Burnett, Everett R., assignor of one-half to H. A. Brunell, Los Angeles, Calif. Valve for internal-combustion engines. No. 1,394,248; Oct. 18.
- Burton, Carl O., Duluth, Minn. Automatic bridge control. No. 1,383,286; July 5; v. 288; p. 6.
- Burton, Charles S., Oak Park, Ill. Container for music-rolls and the like. No. 1,388,092; Aug. 16; v. 289; p. 546.
- Burton, Charles S., Oak Park, Ill. Container for music-rolls and the like. No. 1,388,093; Aug. 16; v. 289; p. 546.
- Burton, Charles S., Oak Park, Ill. Container for music-rolls and the like. No. 1,399,541; Dec. 6.
- Burton, Charles S., Oak Park, Ill. Vacuum fuel-feed device for internal-combustion engines. No. 1,400,723; Dec. 20.
- Burton, Charles S., Oak Park, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Mileage-period-signaling device. No. 1,395,256; Nov. 1.
- Burton, Frank P., Mount Carmel, assignor to Winchester Repeating Arms Co., New Haven, Conn. Sling-swivel and band for firearms. No. 1,366,715; Jan. 25; v. 282; p. 646.
- Burton, Frank P., Mount Carmel, and T. D. Joecks, New Haven, assignors to Winchester Repeating Arms Company, New Haven, Conn. Air-gun. No. 1,396,404; Nov. 8.
- Burton, Frank V., assignor to The Bryant Electric Company, Bridgeport, Conn. Attachment-plug receptacle. No. 1,365,152; Jan. 11; v. 282; p. 257.
- Burton, Harry W., Enid, Okla. Tractor. No. 1,390,880; Sept. 13; v. 290; p. 357.
- Burton, Isaac F., Philadelphia, Pa., assignor to Victor Talking Machine Company. Multiple-spring motor. No. 1,384,426; July 12; v. 288; p. 291.
- Burton, L. W., et al. (See Renfro, Richard R., assignor.)
- Burton Page Company, The. (See Endorf, Charles, Jr., assignor.)
- Burton Page Company, The. (See Shippert, Warren A., assignor.)
- Burton, Stafford A. (See Burton, Verne S. and S. A.)
- Burton, Thomas. (See Turner, F. and Burton.)
- Burton, Thomas L., St. Louis, Mo. Brake-beam support. No. 1,364,073; Jan. 4; v. 282; p. 5.
- Burton, Thomas L., St. Louis, Mo. Brake-beam support. No. 1,364,074; Jan. 4; v. 282; p. 5.
- Burton, Thomas L., assignor to The American Brake Company, St. Louis, Mo. Brake-beam suspension. No. 1,364,071; Jan. 4; v. 282; p. 4.
- Burton, Thomas L., assignor to The American Brake Company, St. Louis, Mo. Brake mechanism. No. 1,364,072; Jan. 4; v. 282; p. 4.
- Burton, Thomas L., assignor to The American Brake Company, St. Louis, Mo. Brake-beam suspension. No. 1,389,121; Aug. 30; v. 289; p. 861.
- Burton, Verne S., Bridgeburg, Ontario, Canada, and S. A. Burton, Detroit, Mich. Automatic brake control for trains. No. 1,388,141; Aug. 16; v. 289; p. 555.
- Burton, Ward A., Pittsburgh, Pa. Card-holding clip for typewriters. No. 1,400,865; Dec. 20.
- Burtschel, Julius A. (See Humason, G. A., and Burtschel.)
- Burwell, Harold E. (See Holloway, J. E., and Burwell.)
- Bury, Ernest. (See Jones, F. B., and Bury.)
- Burzynski, Larry E., Madison, Wis. Folding book-stop. No. 1,370,279; Mar. 1; v. 284; p. 99.
- Busby, Hibbard S., assignor to Cheney Brothers, South Manchester, Conn. Apparatus for comparing, matching, and measuring shades and colors. No. 1,384,513; July 12; v. 288; p. 309.
- Busch, Charles H., assignor to Simmons Company, Kenosha, Wis. Metal bedstead. No. 1,397,203; Nov. 15.
- Busch, Ferdinand W., Berlin, N. D. Wild-oats separator. No. 1,401,039; Dec. 20.
- Busch-Sulzer Bros.-Diesel Engine Company. (See Büchi, Alfred, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Company. (See Hantschke, Paul, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Company. (See Hefti, Wilhelm, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Company. (See Müller, Jakob, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Company. (See Rotter, Max, assignor.)
- Busch-Sulzer Bros.-Diesel Engine Company. (See Tacchella, Adolf, assignor.)
- Busche, John C., Highland Park, Mich. Cushion-tire. No. 1,369,394; Feb. 22; v. 283; p. 634.
- Buschino, Charles, Long Island City, assignor of one-half to W. C. St. Clair, New Rochelle, N. Y. Internal-combustion engine. No. 1,398,953; Nov. 29.
- Buschman, Edward L., East Orange, N. J. Bag-filling machine. No. 1,372,480; Mar. 22; v. 284; p. 687.
- Buschmeyer, Clarence R. (See Sherman, J. Q., and Buschmeyer.)
- Buse, Oscar, Brooklyn, N. Y. Tire. No. 1,370,280; Mar. 1; v. 284; p. 100.
- Bush, Albert A., and R. H. Freitag, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Machine for engraving molds. No. 1,385,333; July 19; v. 288; p. 559.
- Bush, David W., Jr., Bartley, Nebr. Combined setting and brooding coop. No. 1,387,682; Aug. 16; v. 289; p. 465.
- Bush, Elmo J., East St. Louis, Ill. Portable bathing apparatus. No. 1,377,803; May 10; v. 286; p. 329.
- Bush, Frank P., F. G. Serr, and H. L. Powell, assignors to National Biscuit Company, New York, N. Y. Collapsible crate. No. 1,380,349; June 7; v. 287; p. 5.
- Bush, Green O., Luverne, Ala. Refrigerator. No. 1,398,769; Nov. 29.
- Bush, Harold D., Greenhithe, assignor to H. Merton, Reading, England. Fuel-injection mechanism for internal-combustion engines. No. 1,386,049; Aug. 2; v. 289; p. 18.
- Bush, Horace L., and A. J. Bryan, Graham, Tex. Spring-wheel. No. 1,392,813; Oct. 4.
- Bush, John L., Little River, Kans. Window-fastener. No. 1,388,237; Aug. 23; v. 289; p. 631.
- Bush, Vannevar, Chelsea, assignor to American Radio & Research Corporation, Medford, Mass. Radio receiving system. No. 1,389,026; Aug. 30; v. 289; p. 843.
- Bushell, Ernest E. (See Conkling, M. E., and Bushell.)
- Bushnell, Alvah, Jr., Philadelphia, Pa. Expanding filing-pocket. No. 1,373,222; Mar. 29; v. 284; p. 874.
- Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Electrically-operated semaphore-signal. No. 1,377,392; May 10; v. 286; p. 250.
- Bushnell, John B., Berkeley, assignor to Bushnell Magneto Company, San Francisco, Calif. Armature-core. No. 1,365,224; Jan. 11; v. 282; p. 271.
- Bushnell, John B., assignor to Bushnell Magneto Corporation, Berkeley, Calif. Magneto. No. 1,365,225; Jan. 11; v. 282; p. 271.
- Bushnell, John S., New York, N. Y. Calipers. No. 1,393,746; Oct. 18.
- Bushnell Magneto Company. (See Bushnell, John B., assignor.)
- Bushnell Manufacturing Company, The. (See Zent, Abram L., assignor.)
- Busick, Paul M., Memphis, Tenn. Booth. No. 1,375,557; Apr. 19; v. 285; p. 523.
- Buskard, Samuel G., Hamilton, Ontario, Canada, assignor to The Manutil Corporation, Brooklyn, N. Y. Pressing-iron. No. 1,384,301; July 12; v. 288; p. 265.
- Buske, Frederick H., Toledo, Ohio. Jumper-seat. No. 1,397,675; Nov. 22.
- Buss, Walter E., Vincennes, Ind. Automatic car-coupling. No. 1,365,087; Jan. 11; v. 282; p. 244.
- Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam-hanger-locking key. No. 1,381,275; June 14; v. 287; p. 233.
- Busse, Emil F., Jerome, Ariz. Hammer. No. 1,387,920; Aug. 16; v. 289; p. 512.
- Bussel, Herman, El Paso, Tex. Metal-working device. No. 1,387,683; Aug. 16; v. 289; p. 465.
- Bussey, William H., Minneapolis, Minn. Planting-box. No. 1,390,337; Sept. 13; v. 290; p. 248.
- Bussler, David. (See Bussler, Thomas O., assignor.)
- Bussler, Thomas O., Wheelersburg, assignor of one-half to C. Nolche, Portsmouth, Ohio. Automobile-radiator cap. No. 1,385,304; July 19; v. 288; p. 553.
- Bussler, Thomas O., assignor of one-half to D. Bussler, Wheelersburg, Ohio. Scrubbing-brush holder. No. 1,385,902; July 26; v. 288; p. 751.
- Buster, John H., Marysville, Calif. Drawers-supporter. No. 1,380,466; June 7; v. 287; p. 27.
- Bustillo y Diego, Ramón J., Habana, Cuba. Drafting appliance or equipment. No. 1,391,530; Sept. 20; v. 290; p. 552.
- Butch, James, Orange, N. J. Hand-protector. No. 1,371,602; Mar. 15; v. 284; p. 462.
- Butchart, William A., Denver, Colo. Mechanical movement. No. 1,367,117; Feb. 1; v. 283; p. 47.
- Butchart, William A., Denver, Colo. Agitator. No. 1,395,480; Nov. 1.
- Butcher, Charles. (See Ike, M., Owings, Butcher, and Dawson.)
- Butcher, James M., assignor to Sentinel Alarm Co., Chicago, Ill. Mounting for burglar-alarm. No. 1,387,966; Aug. 16; v. 289; p. 521.
- Butcher, James M., assignor, by mesne assignments, to Sentinel Alarm Co., Chicago, Ill. Alarm device. No. 1,392,397; Oct. 4.
- Butcher, James M., assignor to Kakichi Nakamura, Chicago, Ill. Can-opener. No. 1,396,991; Nov. 15.
- Butcher, James M., assignor to Sentinel Alarm Co., Chicago, Ill. Alarm. No. 1,398,585; Nov. 29.
- Bute, William E., Stanhope, Iowa. Knockdown hog-crate. No. 1,381,892; June 14; v. 287; p. 350.
- Butera, Joseph and G. Sorce, San Jose, Calif. Signaling device. No. 1,392,048; Sept. 27; v. 290; p. 730.
- Butler, Aaron T., Linton, Ind. File protector and sheath. No. 1,391,458; Sept. 20; v. 290; p. 537.
- Butler, Alva L., Ucon, Idaho. Road-scraper. No. 1,382,470; June 21; v. 287; p. 518.
- Butler, Benjamin and W. Dukinfield, England. Stop-cock or valve. No. 1,370,875; Mar. 8; v. 284; p. 258.
- Butler, Bernard A., Baltimore, Md. Ratchet-wrench. No. 1,364,242; Jan. 4; v. 282; p. 38.



*Alphabetical list of patentees—Continued.*

- Butler, Brooks, Maple Valley, Wis. Container-holder. No. 1,400,798; Dec. 20.
- Butler, Charles, Independence, Kans. Onion-weeder. No. 1,400,414; Dec. 13.
- Butler, Charles A., Okmulgee, Okla. Attachment for temper-screws. No. 1,399,603; Dec. 6.
- Butler, Clyde G., assignor to The Automotive Manufacturing Company, Dayton, Ohio. Lubricating device. No. 1,366,903; Feb. 1; v. 283; p. 4.
- Butler, David H., Edgewood, assignor to The Inlaid Company, Providence, R. I. Embroidery-needle. No. 1,366,556; Jan. 25; v. 282; p. 615.
- Butler, David H., Edgewood, assignor to The Inlaid Company, Providence, R. I. Hair-cutter. No. 1,399,103; Dec. 6.
- Butler, Edith, Mercer, Pa. Sand-box. No. 1,389,544; Aug. 30; v. 289; p. 945.
- Butler, Frank, Los Angeles, Calif. Level-holder. No. 1,388,023; Aug. 16; v. 289; p. 532.
- Butler, Frank L., Chicago, Ill. Electrical fixture. No. 1,384,427; July 12; v. 288; p. 292.
- Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,391,610; Sept. 20; v. 290; p. 567.
- Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,391,611; Sept. 20; v. 290; p. 568.
- Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,391,612; Sept. 20; v. 290; p. 568.
- Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,393,078; Oct. 11.
- Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,393,079; Oct. 11.
- Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,401,460; Dec. 27.
- Butler, George P., assignor to Winchester Repeating Arms Co., New Haven, Conn. Expansion-bit. No. 1,379,332; May 24; v. 286; p. 746.
- Butler, George P., assignor to Winchester Repeating Arms Co., New Haven, Conn. Screwdriver. No. 1,391,242; Sept. 20; v. 290; p. 493.
- Butler, Harry N., *et al.* (See Olsen, Oscar W., assignor.)
- Butler, Harry R., Pelham Manor, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Hoistrolley. No. 1,390,981; Sept. 20; v. 290; p. 440.
- Butler, Jacob D., Northampton, Mass. Interlocked heavy-service block-flooring. No. 1,367,795; Feb. 8; v. 283; p. 238.
- Butler, James A., Needham, assignor to Boston Piano Supply Company, Norwood, Mass. Wire twisting and bending machine. No. 1,400,724; Dec. 20.
- Butler, James B., San Antonio, Tex. Forming individual foot-forms and fitting shoes thereon. No. 1,372,273; Mar. 22; v. 284; p. 647.
- Butler, James L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-building machine. No. 1,382,471; June 21; v. 287; p. 519.
- Butler, Jay E., Baltimore, Md. Piston-ring. No. 1,379,246; May 24; v. 286; p. 729.
- Butler, John S., and S. G. Green, U. S. Army. Bipod. No. 1,375,487; Apr. 19; v. 285; p. 510.
- Butler, John S., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Tripod for machine-guns. No. 1,372,699; Mar. 22; v. 284; p. 710.
- Butler, John S., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Bipod rest for firearms. No. 1,382,409; June 21; v. 287; p. 507.
- Butler, John S., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Detachable stock for firearms. No. 1,382,410; June 21; v. 287; p. 507.
- Butler, Leonard F. G. (See Fedden, A. H. R., and Butler.)
- Butler, Louis N., Wylie, Minn. Formless system of concrete construction. No. 1,367,655; Feb. 8; v. 283; p. 210.
- Butler, Ray, Chicago, Ill. Safety key-ring hook. No. 1,364,709; Jan. 4; v. 282; p. 128.
- Butler, Wilfred. (See Butler, Benjamin and W.)
- Butler, William A., Portsmouth, assignor of one-half to W. J. Beale, Norfolk, Va. Tie-plate and rail-fastener. No. 1,392,398; Oct. 4.
- Butlers, Limited. (See Reeves, Alfred, assignor.)
- Butner, William R., Yerington, Nev. Ratchet-chain block. No. 1,375,558; Apr. 19; v. 285; p. 523.
- Butson, David, Wolford, N. D. Rural mail post and box. No. 1,368,110; Feb. 8; v. 283; p. 297.
- Butt, Ernest V., Ottawa, Ontario, Canada. Pen-nib extractor. No. 1,396,354; Nov. 8.
- Butt, Henry, Versailles, Ohio. Wrench. No. 1,397,262; Nov. 16.
- Butt, Hugh V., Norfolk, Va. Dump-scow. No. 1,399,048; Dec. 6.
- Butt, James F., Hertford, N. C. Cultivator attachment. No. 1,367,767; Feb. 8; v. 283; p. 232.
- Butterfield, Alfred W., Portland, Oreg. Spiral-guide fire-escape. No. 1,382,341; June 21; v. 287; p. 493.
- Butterfield, Joseph T., Hawthorne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for measuring gas-pressures. No. 1,381,450; June 14; v. 287; p. 266.
- Butterfield, Justus, Warren, Ind. Combined currycomb and brush. No. 1,401,134; Dec. 27.
- Butterfield, Louis M., Raymond, N. H. Toy vehicle. No. 1,368,696; Feb. 15; v. 283; p. 460.
- Butterfield, Percy F., Toronto, Ontario, Canada. Wire-grooving machine. No. 1,386,156; Aug. 2; v. 289; p. 39.
- Butterick Publishing Company, The. (See Sieger, Philip C., assignor.)
- Butterworth, Arthur, Jr. (See Butterworth, Arthur, A., Jr., and H.)
- Butterworth, Arthur, A., Jr., and H., Rochdale, England. Clutch. No. 1,397,401; Nov. 15.
- Butterworth, H. W., & Sons Company. (See Rowley, William S., assignor.)
- Butterworth, Harold. (See Butterworth, Arthur, A., Jr., and H.)
- Butterworth-Judson Corporation. (See Jones, Whitney B., assignor.)
- Butterworth, Samuel, Newton, Mass. Collar-button. No. 1,374,355; Apr. 12; v. 285; p. 229.
- Buttigieg, John, Rockford, Ill. Jewelry-case. No. 1,388,094; Aug. 16; v. 289; p. 546.
- Buttigieg, John, Elgin, Ill. Necktie form and holder. No. 1,394,606; Oct. 25.
- Button, Leon A., New Berlin, N. Y. Fertilizer or manure distributor. No. 1,377,664; May 10; v. 286; p. 302.
- Buttram, Henry, Moran, Iowa. Tool for removing drillings from bores. No. 1,377,665; May 10; v. 286; p. 302.
- Buttress, George, Los Angeles, Calif. Expanding pulley. No. 1,388,797; Aug. 23; v. 289; p. 742.
- Butts, Elmer E., Arkansas City, Kans. Attachment for cooking vessels. No. 1,384,597; July 12; v. 288; p. 327.
- Butts, Eugene R., Chicago, Ill. Collapsible light and rain shield for vehicles. No. 1,393,080; Oct. 11.
- Butts, Heber, San Diego, Calif. Aircraft launching and landing means. No. 1,371,989; Mar. 15; v. 284; p. 536.
- Butts, Joseph P., Baxter Springs, Kans. Gas-burner. No. 1,384,598; July 12; v. 288; p. 328.
- Butts, L. N., *et al.* (See Bowman, Levi M., assignor.)
- Butz, Delbert W. (See Black, W. Z., and Butz.)
- Butzen, Thomas F., assignor of one-half to D. Montgomery, Madison, Wis. Toothed gear. No. 1,386,089; Aug. 2; v. 289; p. 26.
- Buxton, Thomas C. (See Roby, Edmund T., assignor.)
- Buys, George L. F., Brooklyn, N. Y. Game apparatus. No. 1,370,682; Mar. 8; v. 284; p. 222.
- Buys, Henry D., Emmett, Idaho. Toy catapult. No. 1,376,776; Apr. 26; v. 285; p. 596.
- Buzzaird, Raleigh B., Washington, D. C., assignor, by mesne assignments, to Davis Automatic Equipment Corporation, New York, N. Y. Coin-controlled locker-lock. No. 1,373,863; Apr. 5; v. 285; p. 94.
- Buzzaird, Raleigh B., Washington, D. C., assignor, by mesne assignments, to Davis Automatic Equipment Corporation, New York, N. Y. Locker. No. 1,391,044; Sept. 20; v. 290; p. 453.
- Buzzaird, Raleigh B., Washington, D. C., assignor, by mesne assignments, to Davis Automatic Equipment Corporation, New York, N. Y. Coin-controlled lock mechanism. No. 1,393,201; Oct. 11.
- Bybee, John W., *et al.* (See Crimer, Harry J., assignor.)
- Byck, Lawrence C., Perth Amboy, N. J. Enlarging-easel. No. 1,377,394; May 10; v. 286; p. 251.
- Byer, John D., Butte, Mont. Match and toothpick dispenser. No. 1,395,388; Nov. 1.
- Byer, John H., Orrtanna, Pa. Shears. No. 1,374,819; Apr. 12; v. 285; p. 319.
- Byerlein, Arthur A., assignor to The Toledo Machine & Tool Company, Toledo, Ohio. Adjustable motor-mount. No. 1,373,795; Apr. 5; v. 285; p. 80.
- Byerley, Josiah H., Los Angeles, Calif. Envelop-sealer. No. 1,389,812; Sept. 6; v. 290; p. 50.
- Byers, A. M., Company. (See Aston, James, assignor.)
- Byers, Firm B., New York, N. Y. Collar and necktie holder. No. 1,392,298; Oct. 4.
- Byers, Joseph J., Brookline, Mass. Treating materials with cellulose derivatives. No. 1,388,169; Aug. 23; v. 289; p. 617.
- Byles, Wilson W. (See Park, L. L., and Byles.)
- Bylger, Frans I. L., Jersey City, N. J. Rotary engine. No. 1,376,397; May 3; v. 286; p. 4.
- Byllesby, H. M., & Company. (See Welch, W. J., and Tracy, assignors.)
- Byman, Victor, Amity, Oreg. Fruit-gatherer. No. 1,385,111; July 19; v. 288; p. 515.
- Byrd, Clifton M., Lagrange, Ga. Auxiliary yarn spooler or winder. No. 1,381,791; June 14; v. 287; p. 330.
- Byrd, Turner, Lansing, Mich. Eaves-trough. No. 1,398,415; Nov. 29.
- Byrkit, Floyd, Clay Center, Nebr. Skid-chain fastener. No. 1,366,870; Jan. 25; v. 282; p. 677.
- Byrne, Christopher, Pittsburgh, Pa. Feed-spacer. No. 1,382,623; June 28; v. 287; p. 601.
- Byrne, George M., and W. M. Sibley, Lincoln, Nebr. Pressure-reducing gage. No. 1,382,411; June 21; v. 287; p. 507.
- Byrne, Joseph H., Highland Park, Mich. Advertising device. No. 1,373,299; Mar. 29; v. 284; p. 890.
- Byrns, Garrett, and H. Sanche, Rainy River, Ontario, Canada. Saw-set. No. 1,374,279; Apr. 12; v. 285; p. 215.
- Byrom, Thomas H. (See Christopher, John E., assignor.)
- Byron, Orra E., Louisville, Ky. Lock for trailer steering and draft gears. No. 1,399,188; Dec. 6.
- Byron, Orra E., Chicago, Ill., assignor to Lee Loader & Body Co. Trailer. No. 1,366,765; Jan. 25; v. 282; p. 657.



*Alphabetical list of patentees—Continued.*

- Byron, Orra E., assignor to Lee Trailer & Body Co., Chicago, Ill. Pole-trailer. No. 1,390,428; Sept. 13; v. 290; p. 265.
- Byron, Thomas F., Chicago, Ill. Curtain-rod holder. No. 1,377,666; May 10; v. 286; p. 302.
- Byrum, Almond C., Rockford, Ill. Cultivator. No. 1,367,536; Feb. 8; v. 283; p. 188.
- Bywater, William H., Trenton, N. J. Registering apparatus. No. 1,397,854; Nov. 22.
- C. L. I. Manufacturing Company. (See Watson, Ernest A., assignor.)
- Cable Company, The. (See Hagey, J. C., and Swensen, assignors.)
- Cade, Robert S., Canton, Ohio. Concrete paving-slab. No. 1,371,856; Mar. 15; v. 284; p. 511.
- Cadeddu, Efisio, Vancouver, British Columbia, Canada. Street signaling device. No. 1,372,401; Mar. 22; v. 284; p. 672.
- Cadenhead, John T., Ensley, Ala. Demountable-rim construction. No. 1,378,763; May 17; v. 286; p. 565.
- Cadenhead, John T., Ensley, Ala. Demountable rim. No. 1,378,764; May 17; v. 286; p. 565.
- Cadgene, Dr. Ernest, *et al.* (See Koch, Georg, assignor.)
- Cadiaux, Dolard, Lowell, Mass. Removing discoloring deposits from masonry structures. No. 1,380,634; June 7; v. 287; p. 58.
- Cadigan, John E., New York, N. Y. Safety attachment for gas-stoves. No. 1,395,888; Nov. 29.
- Cadillac Motor Car Company. (See Snell, Lyle K., assignor.)
- Cadillac Motor Car Company. (See White, D'Orsay M., assignor.)
- Cadillac Washing Machine Co. (See Payne, H. D., De Clerque, and Sjöberg, assignors.)
- Cadman, Addi B., assignor to Warner Manufacturing Company, South Beloit, Wis. Trailer-truck. No. 1,393,497; Oct. 11.
- Cadman, Addi B., Beloit, Wis., assignor to Warner Manufacturing Company, South Beloit, Ill. Vehicle-coupling. No. 1,399,250; Dec. 6.
- Cadman, Calvin B., South Beloit, Wis. Grinding-wheel chuck. No. 1,389,738; Sept. 6; v. 290; p. 36.
- Cadmus, Alfred B., New York, N. Y. Cigarette-package. No. 1,381,276; June 14; v. 287; p. 233.
- Cadoret, Louis A., Pawtucket, R. I. Bobbin-holder. No. 1,386,921; Aug. 9; v. 289; p. 263.
- Cadwallader, Harry, Jr., Philadelphia, Pa. Machine-clamp. No. 1,376,077; Apr. 26; v. 285; p. 655.
- Cadwell, Charles A., assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Metal-working by electricity. No. 1,367,796; Feb. 8; v. 283; p. 238.
- Cadwell, William H., assignor to The Beaton & Cadwell Manufacturing Company, New Britain, Conn. Making floor and ceiling plates. No. 1,365,889; Jan. 18; v. 282; p. 440.
- Cady, Charles H., Omaha, Nebr. Photographic mask. No. 1,399,189; Dec. 6.
- Cady, Sherman W., Auburn, N. Y., assignor to International Harvester Company. Tooth for tillage implements. No. 1,366,557; Jan. 25; v. 282; p. 615.
- Caesar, Ambrose, Mosman, near Sydney, New South Wales, Australia. Hand clipper-mower. No. 1,398,672; Nov. 29.
- Caesar, August, Seattle, Wash. Geographical clock. No. 1,401,390; Dec. 27.
- Cafferata & Co. (See Johnson, Frank M., assignor.)
- Caffrey, Maurice J., New York, N. Y. Pipe-cutter. No. 1,373,300; Mar. 29; v. 284; p. 890.
- Cage Engine Syndicate. (See Cage, John M., assignor.)
- Cage, John M., Long Beach, Calif., assignor to Cage Engine Syndicate, Inc., New York, N. Y. Six-stroke three-phase engine. No. 1,367,797; Feb. 8; v. 283; p. 238.
- Cage, John M., Long Beach, Calif., assignor to Cage Engine Syndicate Inc. Internal-combustion engine. No. 1,386,393; Aug. 2; v. 289; p. 84.
- Cage, John M., Long Beach, Calif., assignor to Cage Engine Syndicate Inc., New York, N. Y. Internal-combustion engine. No. 1,386,394; Aug. 2; v. 289; p. 85.
- Cahill, Daniel R. (See Gasda, S. A., and Cahill.)
- Cahill, Gerald, *et al.* (See Carlson, Ivar, assignor.)
- Cahill, Thomas J., Philadelphia, Pa. Submarine mine. No. 1,381,792; June 14; v. 287; p. 331.
- Cahill, William J., New Dorp, N. Y. Horseshoe. No. 1,396,405; Nov. 8.
- Calliau, Cyril. (See Broluska, Amel B. and H. A., assignors.)
- Caln, James W., Detroit, Mich. Acetylene-generator. No. 1,398,673; Nov. 29.
- Cain, John W., Chicago, Ill. Windshield-wiper for vehicles. No. 1,378,090; May 17; v. 286; p. 436.
- Cain, Thomas, Topeka, Kans. Dust-guard. No. 1,395,701; Nov. 1.
- Caine, Julius S., Des Moines, Iowa. Duplex envelop. No. 1,381,793; June 14; v. 287; p. 331.
- Cairncross, Andrew S., St. Paul, Minn. Icing-machine. No. 1,390,494; Sept. 13; v. 290; p. 279.
- Caisley, Leslie C., Morris, Ill. Attaching means for anti-skid-chains. No. 1,365,088; Jan. 11; v. 282; p. 244.
- Cajoleas, George J., *et al.* (See Mamalakis, John E., assignor.)
- Cake, Horace M., Philadelphia, Pa. Turbine. No. 1,398,124; Nov. 22.
- Calcutti, Munzio D., New York, N. Y. Orthopedic metatarsal arch-support. No. 1,385,664; July 26; v. 288; p. 704.
- Calderoni, Domenico, Milan, Italy. Manufacturing metal table utensils. No. 1,371,469; Mar. 15; v. 284; p. 436.
- Caldwell, Charles M., assignor to H. W. Caldwell, Champaign, Ill. Punching-machine. No. 1,369,322; Feb. 22; v. 283; p. 619.
- Caldwell, Clifford A., Pittsburgh, Pa. Steering-gear. No. 1,364,243; Jan. 4; v. 282; p. 38.
- Caldwell, Edwin de H., Dunkirk, N. Y. Differential gear. No. 1,399,002; Dec. 6.
- Caldwell, H. W. (See Caldwell, Charles M., assignor.)
- Caldwell, Henry C., Buffalo, N. Y. Gas-burner. No. 1,387,450; Aug. 16; v. 289; p. 418.
- Caldwell, J. A., *et al.* (See Campbell, W. L., and Straughan, assignors.)
- Caldwell, James C. (See Claude, George E., assignor.)
- Caldwell, John C., Miami, Fla. Artificial bait. No. 1,390,601; Sept. 13; v. 290; p. 301.
- Caldwell, John D., Forsyth, Mont. Tractor attachment for automobiles. No. 1,389,576; Sept. 6; v. 290; p. 4.
- Caldwell Silo Co. (See Caldwell, Warren A., assignor.) (Reissue.)
- Caldwell, Warren A., assignor to Caldwell Silo Company Inc., Oskaloosa, Iowa. Ventilated grain-crib stave. (Reissue.) No. 15,217; Nov. 1.
- Caldwell, William H., Mallaig, Scotland. Fuel-supply of internal-combustion engines. No. 1,366,242; Jan. 18; v. 282; p. 509.
- Caleff, Ophelia O., Boston, Mass. Gas-burner. No. 1,381,539; June 14; v. 287; p. 282.
- Calhoun, Jesse W., Racine, Wis. Shipping-car ventilator. No. 1,383,787; July 5; v. 288; p. 110.
- Calhoun, Roland F., assignor of one-half to M. W. Langford, Kansas City, Kans. Dancing toy. No. 1,391,994; Sept. 27; v. 290; p. 720.
- Calhoun, Charles, assignor of one-half to A. G. Meeks, Duquesne, Pa. Lubricating device. No. 1,395,174; Oct. 25.
- Calhoun, Fredrick F., Tumwater, Wash. Combination pipe-wrench. No. 1,401,669; Dec. 27.
- Calhoun, Leslie E., Los Angeles, Calif. Cutting-tool holder. No. 1,385,519; July 26; v. 288; p. 674.
- Calico Printers' Association Limited, The. (See Roberts, Charles, assignor.)
- Calico Printers Association, Limited, The. (See Roberts, Frederic.)
- Califf, Emery F., Detroit, Mich. Motor-vehicle lock. No. 1,384,233; July 12; v. 288; p. 251.
- California Alkali Company. (See Hirschkind, Wilhelm, assignor.)
- California Almond Growers Exchange. (See Pierce, George W., assignor.)
- California Almond Growers Exchange. (See Tucker, Thaddeus C., assignor.)
- California Cap Company. (See Oliver, Albert L., assignor.)
- California Central Creameries. (See Rew, William O., assignor.)
- California Electric Steel Company. (See Riveroll, Elfego, assignor.)
- California Evaporating Company. (See Meroney, John A., assignor.)
- California Portland Cement Company. (See Olsen, G. J., and Waterfield, assignors.)
- California Sprayer Company, The. (See Davis, John S., assignor.)
- California Tool Works, The. (See Weichhart, Henry A., assignor.)
- Calk, Alonzo E., Brady, Tex. Cultivator-fender. No. 1,377,183; May 10; v. 286; p. 209.
- Calkin, Benjamin H., assignor to F. L. Calkin, Detroit, Mich. Brewing coffee. No. 1,370,782; Mar. 8; v. 284; p. 241.
- Calkin, Benjamin H. and F. L., Detroit, Mich.; said Benjamin H. Calkin assignor to said F. L. Calkin. Coffee-percolator. No. 1,389,239; Aug. 30; v. 289; p. 885.
- Calkin, Frances L. (See Calkin, Benjamin H., assignor.)
- Calkin, Frances L. (See Calkin, Benjamin H. and F. L.)
- Calkin, Morris, Seattle, Wash. Suitcase. No. 1,372,274; Mar. 22; v. 284; p. 647.
- Calkins, Edwin S., Solvay, assignor to M. E. Davis, Canastota, N. Y. Brush and means for attaching same to hose or handle. No. 1,383,387; July 5; v. 288; p. 27.
- Calkins, Herbert V., Longmont, Colo. Gate. No. 1,364,981; Jan. 11; v. 282; p. 224.
- Calkins, Herbert V., Longmont, Colo. Windmill. No. 1,364,982; Jan. 11; v. 282; p. 225.
- Calkins, Howard F. (See Edgerton, J. A., and Calkins.)
- Calkins, Richard H., East Bloomfield, N. Y. Jar-opene. No. 1,366,871; Jan. 25; v. 282; p. 677.
- Calkins, Seward H., assignor to Traitel Marble Co., Long Island City, N. Y. Pattern and guide strip. No. 1,371,857; Mar. 15; v. 284; p. 511.
- Callahan, Charles F., Memphis, Tenn. Automobile-lock. No. 1,400,415; Dec. 13.
- Callahan, Charles J., Providence, R. I. Collar-holder. No. 1,377,804; May 10; v. 286; p. 329.
- Callahan, Christian E., Mansfield, Ohio. Bottle-holder. No. 1,368,544; Feb. 15; v. 283; p. 430.
- Callahan, Francis E. (See Stoddard, H. A., and Callahan)



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- Callahan, Francis H., New Haven, Conn. Toy. No. 1,366,115; Jan. 18; v. 282; p. 483.
- Callahan, John D. (See Surratt, Robert F., assignor.)
- Callahan, Michael J., New York, N. Y. Thermostatic control for dampers for unit ventilators. No. 1,390,758; Sept. 13; v. 290; p. 333.
- Callais, Julian C., St. Louis, Mo. Coin-changing apparatus. No. 1,364,864; Jan. 11; v. 282; p. 202.
- Callard, Robert P., Fort Wayne, Ind. Positive-stroke pump mechanism. No. 1,380,702; June 7; v. 287; p. 71.
- Callard, Robert P., and C. A. Rhonemus, Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-drawing machine. No. 1,393,081; Oct. 11.
- Callery, Thomas J., Jersey City, N. J. Car construction. No. 1,400,140; Dec. 13.
- Callery, William S., Wheatland, Calif. Apparatus for skinning cattle. No. 1,377,872; May 10; v. 286; p. 342.
- Calleson, Amos. (See Lawson, Clarence J., assignor.)
- Calleson, Amos, Brooklyn, N. Y. Bottle-sealing machine. No. 1,386,313; Aug. 2; v. 289; p. 70.
- Calleson, Amos, assignor to Adriance Machine Works, Inc., Brooklyn, N. Y. Bottle filling and sealing machine. No. 1,365,454; Jan. 11; v. 282; p. 315.
- Calleson, Amos, assignor to Adriance Machine Works, Inc., Brooklyn, N. Y. Bottle-sealing machine. No. 1,377,395; May 10; v. 286; p. 251.
- Callison, Laura M., Washington, D. C. Adjustable rake. No. 1,370,086; Mar. 1; v. 284; p. 62.
- Callodi, Giuseppe, Chicago, Ill. Embalming fluid. No. 1,386,157; Aug. 2; v. 289; p. 39.
- Callomon, Clarence B., South Orange, assignor to Driver-Harris Company, Harrison, N. J. Box for heat-treating metallic articles. No. 1,387,236; Aug. 9; v. 289; p. 223.
- Callow, John M., Salt Lake City, Utah, assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Pneumatic flotation-cell and method. No. 1,366,766; Jan. 25; v. 282; p. 657.
- Callow, John M., Salt Lake City, Utah, assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Flotation separatory process and apparatus. No. 1,366,767; Jan. 25; v. 282; p. 657.
- Calow, Reuben, Chicago, Ill. Internal-combustion engine. No. 1,364,543; Jan. 4; v. 282; p. 96.
- Calloway, Russell T., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Combined switching and protective unit for electrical transmission-lines. No. 1,389,623; Sept. 6; v. 290; p. 12.
- Calovi, Primo, assignor, by mesne assignments, to Holdzem Company Inc., New York, N. Y. Composition of matter and producing the same. No. 1,386,922; Aug. 9; v. 289; p. 263.
- Calta, James W., Platte, S. D. Engine-piston. No. 1,373,714; Apr. 5; v. 285; p. 65.
- Calthrop, E. R., Aerial Patents Limited. (See Calthrop, Everard R., assignor.)
- Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Parachute. No. 1,369,395; Feb. 22; v. 283; p. 634.
- Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Parachute. No. 1,393,082; Oct. 11.
- Calthrop, Everard R., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Safety spring-sling particularly adapted for use with parachutes. No. 1,401,040; Dec. 20.
- Calthrop's, E. R., Aerial Patents Limited. (See Calthrop, Everard R., assignor.)
- Calthrop's, E. R., Aerial Patents Limited. (See Schoelar, Percy W., assignor.)
- Calverley, John B., and W. E. Highfield, Preston, England. Apparatus for converting alternating electric currents into direct currents and vice versa. No. 1,366,057; Jan. 18; v. 282; p. 472.
- Calvert, Elnathan, Des Moines, Iowa. Building block and wall. No. 1,394,406; Oct. 18.
- Calvert, Warren D., Altoona, Pa. Telephone-answering instrument. No. 1,368,481; Feb. 15; v. 283; p. 418.
- Calvete, Isidoro, London, England. Apparatus for singeing the hair. No. 1,388,402; Aug. 23; v. 289; p. 666.
- Calvin, Albert W., Pittsburgh, Pa. Side bearing. No. 1,364,426; Jan. 4; v. 282; p. 74.
- Camba, Carlos M., Habana, Cuba. Traffic-signal. No. 1,376,398; May 3; v. 286; p. 4.
- Cambay, Charles A., assignor to A. H. T. Bonnet and J. T. F. Conti, Paris, France. Change-speed device. No. 1,373,715; Apr. 5; v. 285; p. 65.
- Cambridge Mechanical Toy Company, The. (See Hartleb, R. C., and Levey, assignors.)
- Camel Company. (See Downing, Ira S., assignor.)
- Cameli, Philip, Wilmington, Del. Adjustable-switch-point rail-section. No. 1,372,935; Mar. 29; v. 284; p. 818.
- Camelinat, Eugene G., Birmingham, England. Lamp-bracket. No. 1,386,453; Aug. 2; v. 289; p. 95.
- Camell, Ramon, Rhône, L. Cochet and J. Gritte, Lyon, assignors to Societe Lyonnaise Des Richards Catalytiques, Camell, Cochet, Gritte & Cie. (Societe en Commandite.) Rhône, France. Apparatus for heating by catalysis. No. 1,379,742; May 31; v. 286; p. 897.
- Camell, Ramon, Rhône, L. Cochet and J. Gritte, Lyon, assignors to Societe Lyonnaise Des Richards Catalytiques, Camell, Cochet, Gritte & Cie. (Societe en commandite.) Caluire, Rhône, France. Apparatus for heating by catalysis. No. 1,396,809; Nov. 15.
- Camerer, Arthur A. (See Hanlon, William P., assignor.)
- Cameron, A. S., Steam Pump Works. (See Anderson, William E., assignor.)
- Cameron, Duncan, Edinburgh, Scotland. Fountain and other reservoir pen. No. 1,375,559; Apr. 19; v. 285; p. 523.
- Cameron, Everett S., West Haven, Conn. Oil-cooling system for explosive-engines. No. 1,384,234; July 12; v. 288; p. 251.
- Cameron, Frank, Jr., assignor of one-third to A. C. Kneffe, Harrison, Ohio. Shape-retainer for the bottoms of trousers-legs. No. 1,381,965; June 21; v. 287; p. 423.
- Cameron, James A., assignor to Taprell Loomis & Company, Chicago, Ill. Basel. No. 1,396,724; Nov. 15.
- Cameron, James L. (See Jenks, B. L., Cameron, and Yaggi.)
- Cameron, James L. (See Yaggi, L. E., and Cameron.)
- Cameron, John S., Elliott, Ill. Ash-pan. No. 1,377,463; May 10; v. 286; p. 264.
- Cameron Machine Company. (See Hutchingson, Charles L., assignor.)
- Cameron, Theodore R., San Antonio, Tex. Mechanical packer. No. 1,366,631; Jan. 25; v. 282; p. 630.
- Cameron, William. (See Coats, Allan, and Cameron.)
- Cameron, William, Chicago, Ill. Drier. No. 1,390,338; Sept. 13; v. 290; p. 248.
- Cameron, William J., Chicago, Ill. Retractor. No. 1,374,984; Apr. 19; v. 285; p. 413.
- Cameron, William J., Chicago, Ill. Retractor. No. 1,388,170; Aug. 23; v. 289; p. 617.
- Cameron, William J., Chicago, Ill. Retractor. No. 1,389,436; Aug. 20; v. 289; p. 924.
- Cameron, William W., La Crosse, Wis., assignor, by mesne assignments, to F. Gerlach and A. B. Keller, trustees, Chicago, Ill. Tractor-plow. No. 1,377,057; May 3; v. 286; p. 129.
- Camet, Jean-Baptiste, Bayonne, France. Propeller. No. 1,365,371; Jan. 11; v. 282; p. 299.
- Camm, John A. (See Shields, F. S., and Camm.)
- Camm, Horace O., Bay Point, Calif. Machine for making battery-separators and the like. No. 1,364,244; Jan. 4; v. 282; p. 38.
- Cammen, Leon, New York, N. Y. Casting metal tubing. No. 1,375,826; Apr. 26; v. 285; p. 606.
- Camp, Curtis B., et al., trustees. (See Bracke, Robert F., assignor.)
- Camp, Curtis B., et al., trustees. (See Chandler, Milford G., assignor.)
- Camp, Edgar M., assignor, by mesne assignments, to W. D. Bleick, Newark, N. J. Dash-pot. No. 1,394,063; Oct. 18.
- Camp, Luther S., Rockmart, Ga. Collapsible truck-top. No. 1,376,250; Apr. 26; v. 285; p. 688.
- Camp, Samuel H., Jackson, Mich. Abdominal support. No. 1,380,883; June 7; v. 287; p. 107.
- Camp, Sterling W., Binghamton, N. Y. Paint for masonry. No. 1,365,372; Jan. 11; v. 282; p. 299.
- Camp, William W., Stratford, Ontario, Canada. Treating peat-bogs to extract the water from the peat in the bogs. No. 1,399,847; Dec. 13.
- Campagne D'Applications Mecaniques. (See Rouanet, Louis.)
- Campagne, William T. D., Spooner, Wis. Wheel-flange oiler. No. 1,389,420; Aug. 30; v. 289; p. 927.
- Campanile, Carlos, Ensenada, Argentina. Padlock. No. 1,389,858; Sept. 6; v. 290; p. 60.
- Campbell, Archibald G., Richmond, England. Wind and weather screen for motorcycles. No. 1,387,849; Aug. 9; v. 289; p. 347.
- Campbell, Archie S., St. Johnsbury, Vt. Thermometer attachment for faucets. No. 1,397,720; Nov. 22.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Convertible gondola ballast-car. No. 1,383,287; July 5; v. 288; p. 6.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car and door-operating mechanism therefor. No. 1,383,288; July 5; v. 288; p. 6.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Convertible box-car. No. 1,386,765; Aug. 9; v. 289; p. 230.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Tank-car construction. No. 1,397,676; Nov. 22.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Railway draft-rigging. No. 1,398,674; Nov. 29.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Convertible box-car. No. 1,398,675; Nov. 29.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Ore-car. No. 1,399,746; Dec. 13.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Ore-car. No. 1,400,866; Dec. 20.
- Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dumping-car. No. 1,400,867; Dec. 20.
- Campbell, Arthur P., et al. (See Hartman, Ellis B., assignor.)
- Campbell Baking Company, The. (See Patterson, Curtis J., assignor.)
- Campbell, Bryant D., Oakland, Calif. Telephone system. No. 1,382,891; June 28; v. 287; p. 652.



## Alphabetical list of patentees—Continued.

- Campbell, Charles E. (See Hadaway, J. B., and Campbell.)
- Campbell, Charles E., Lynn, Mass. Locking-rack. No. 1,383,598; July 5; v. 288; p. 70.
- Campbell, Chester I. (See Johnson, Walter H., assignor.)
- Campbell, Clinton A., assignor to The Imperial Underwear Company, Piqua, Ohio. Undergarment. No. 1,376,674; May 3; v. 286; p. 55.
- Campbell, David N. E., Baltimore, Md. Germicide-brush. No. 1,375,560; Apr. 19; v. 285; p. 524.
- Campbell, Donald D., Winnipeg, Manitoba, Canada. Grain-door. No. 1,371,858; Mar. 15; v. 284; p. 511.
- Campbell, Donald J., Muskegon Heights, Mich. Sand-ramping machine. No. 1,364,831; Jan. 4; v. 282; p. 151.
- Campbell, Donald M., and H. E. Little, Wichita, Kans. Tire-patch. No. 1,381,966; June 21; v. 287; p. 424.
- Campbell, Edgar W., and M. W. Ramsey, assignors to Campbell Engineering Corporation, Kansas City, Mo. Battery-plate-burning rack. No. 1,396,162; Nov. 8.
- Campbell, Edward A., Kenosha, Wis. Combination gas stove and burner. No. 1,397,160; Nov. 15.
- Campbell, Edwin R. (See Cole, Arthur D., assignor.)
- Campbell Engineering Corporation. (See Campbell, E. W., and Ramsey, assignors.)
- Campbell, Ernest P., assignor to one-half to J. E. Goodman, Stockton, Calif. Outer ball-race extractor. No. 1,367,016; Feb. 1; v. 283; p. 26.
- Campbell, Frank A., *et al.* (See Carpenter, Samuel D., assignor.)
- Campbell, Frank E. (See Baer, Berthold A., assignor.)
- Campbell, Frederick H., assignor to one-fourth to C. R. Hunn, Chicago, Ill. Vehicle-wheel rim. No. 1,380,350; June 7; v. 287; p. 5.
- Campbell, George B., Canisteo, N. Y. Hide-coupler. No. 1,390,495; Sept. 13; v. 290; p. 279.
- Campbell, George J. (See Lane, G., and Campbell.)
- Campbell, George J., assignor to Lane Brothers Company, Poughkeepsie, N. Y. Lifting-jack. No. 1,376,511; May 3; v. 286; p. 25.
- Campbell, George L., Springfield, Mo. Overalls. No. 1,365,766; Jan. 18; v. 282; p. 416.
- Campbell, George W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,370,281; Mar. 1; v. 284; p. 100.
- Campbell, George W., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,370,282; Mar. 1; v. 284; p. 100.
- Campbell, Harry E. (See Elliott, Irving H., assignor.)
- Campbell, Harry R., Seattle, Wash. Bundle-binding device. No. 1,369,219; Feb. 22; v. 283; p. 600.
- Campbell, Henry, Logan, Utah. Ore-separator. No. 1,368,111; Feb. 8; v. 283; p. 297.
- Campbell, Henry W. (See Williams, Glen L., assignor.)
- Campbell, Hudson S., Clarksburg, W. Va. Gripping and cutting sheet-glass. No. 1,367,858; Feb. 8; v. 283; p. 250.
- Campbell, James H., Cambridge, Mass. Electromagnetic valve. No. 1,382,412; June 21; v. 287; p. 507.
- Campbell, James R., Scottsdale, Pa. Plant stimulant and fertilizer. No. 1,384,990; July 19; v. 288; p. 490.
- Campbell, Jesse T., Elbridge, Tenn. Try-square. No. 1,379,849; May 31; v. 286; p. 917.
- Campbell, Joseph S., Ogden, Utah. Lever-lock. No. 1,382,169; June 21; v. 287; p. 460.
- Campbell, Leon J., Buchanan, Mich. Transmission-lock. No. 1,365,657; Jan. 18; v. 282; p. 394.
- Campbell, Leon J., Buchanan, Mich. Variable-speed-transmission mechanism. No. 1,388,548; Aug. 23; v. 289; p. 693.
- Campbell, Leon J., Buchanan, Mich. Variable-speed transmission mechanism. No. 1,394,607; Oct. 25.
- Campbell, Leon W., Providence, R. I. Spinning or roving frame. No. 1,370,407; Mar. 1; v. 284; p. 123.
- Campbell, Leon W., Barre Plains, Mass. Flier for roving-frames and other like textile apparatus. No. 1,399,332; Dec. 6.
- Campbell, Le Roy W., Grand Rapids, Mich., assignor to The Tunnel & Sewer Machine Engineering Company, Buffalo, N. Y. Tunneling-machine. No. 1,371,224; Mar. 15; v. 284; p. 387.
- Campbell, Leslie S., Brighton, England. Carbureter. No. 1,393,426; Oct. 11.
- Cameron, Lloyd E., Somerville, assignor to A. F. Murphy, Boston, Mass. Stamping-dies. No. 1,400,416; Dec. 13.
- Campbell, Malcolm G., Windsor, Ontario, Canada, assignor to Kelsey Wheel Company, Inc., Detroit, Mich. Anti-friction thrust-bearing. No. 1,399,190; Dec. 6.
- Campbell, Melvin H. (See Griffin, J. T., Nelson, and Campbell.)
- Campbell, Melvin H., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Tinning mechanism. No. 1,368,020; Feb. 8; v. 283; p. 280.
- Campbell, Nera H. (See Holmes, D. R., and Campbell.)
- Campbell, Robert E., Berkeley, Calif. Anatomical articulator. No. 1,381,794; June 14; v. 287; p. 331.
- Campbell, Robert H., Upper Edmonton, England. Capsule or container for gases or liquids under pressure. No. 1,387,451; Aug. 16; v. 289; p. 418.
- Campbell, Ronald E., assignor to C. C. Wilson, Columbia, S. C. Attachment for smoothing-irons. No. 1,376,512; May 3; v. 286; p. 25.
- Campbell, Ronald E., assignor to C. C. Wilson, Columbia, S. C. Safety attachment for electric irons. No. 1,376,513; May 3; v. 286; p. 25.
- Campbell, Samuel M., Rock Island, Ill. Connecting-rod aligner. No. 1,398,359; Nov. 29.
- Campbell, Sarah W. (See Campbell, Solomon A., assignor.)
- Campbell, Solomon A., assignor, by mesne assignments, to S. W. Campbell, Newton, Mass. Wrench. No. 1,371,350; Mar. 15; v. 284; p. 412.
- Campbell, Sterling H., St. Louis, Mo. Brake-rod jaw. No. 1,375,361; Apr. 19; v. 285; p. 486.
- Campbell, Sterling H., St. Louis, Mo. Attachment for pin-lifters. No. 1,387,684; Aug. 16; v. 289; p. 465.
- Campbell, Sterling H., St. Louis, Mo. Coupling-release rigging. No. 1,387,685; Aug. 16; v. 289; p. 465.
- Campbell, Sterling H., St. Louis, Mo. Brake-rod jaw. No. 1,391,716; Sept. 27; v. 290; p. 663.
- Campbell, Sterling H., St. Louis, Mo. Coupling-release rigging. No. 1,396,725; Nov. 15.
- Campbell, Sterling H., St. Louis, Mo. Coupling-release rigging. No. 1,396,726; Nov. 15.
- Campbell, Thomas C., assignor to The Anglo-American Mill Company, Owensboro, Ky. Drive mechanism for mills. No. 1,384,741; July 19; v. 288; p. 438.
- Campbell, Torquil, Vancouver, British Columbia, Canada. Grain-door. No. 1,379,081; May 24; v. 286; p. 697.
- Campbell, Walter M., St. John, and M. S. Smith, McAdam, New Brunswick, Canada. Steam-locomotive safety appliance. No. 1,372,600; Mar. 22; v. 284; p. 710.
- Campbell, William A., Bellefontaine, Ohio. Heating-stove. No. 1,367,457; Feb. 1; v. 283; p. 114.
- Campbell, William A., Pittsburgh, Pa. Vise. No. 1,393,083; Oct. 11.
- Campbell, William L., and A. E. Straughan, McKinney, assignors of forty-nine one-hundredths to A. J. Commous, S. Weisman, J. A. Caldwell, and E. H. Winton, Collin county, Tex. Parcel-carrier. No. 1,390,339; Sept. 13; v. 290; p. 248.
- Campbell, William M., Hot Springs, Ark. Store furniture. No. 1,383,980; July 5; v. 288; p. 150.
- Campbell Wire Specialty Works, The. (See Swanson, Anton, assignor.)
- Campini, George G., San Francisco, Calif. Interchangeable last. No. 1,381,702; June 14; v. 287; p. 314.
- Campion, George G., Manchester, England. Röntgen-ray and like apparatus. No. 1,378,007; May 17; v. 286; p. 420.
- Campion, George W., Owen Sound, Ontario, Canada. License-plate. No. 1,397,032; Nov. 15.
- Campodonico, John J., San Francisco, Calif. Tractor transmission. No. 1,370,408; Mar. 1; v. 284; p. 124.
- Campodonico, John J., San Francisco, Calif. Traction-wheel. No. 1,370,409; Mar. 1; v. 284; p. 124.
- Camward Engineering Co., The. (See Howard, John A., Sr., assignor.)
- Can Conservation Company. (See Rude, James M., assignor.)
- Canadian File & Tool Works. (See Bowman, John H. A. D., assignor.)
- Canady, Buel H., Winslow, Ariz. Removable bearing-plate. No. 1,387,588; Aug. 16; v. 289; p. 446.
- Canby, Albert L., Hubbard, Ohio. Windshield-cover. No. 1,398,714; Nov. 29.
- Canda, Ferdinand M., New York, N. Y. Method of and apparatus for rolling balls. No. 1,367,299; Feb. 1; v. 283; p. 83.
- Canda, Ferdinand M., New York, N. Y. Ball-rolling apparatus. No. 1,399,686; Dec. 6.
- Canda, Ferdinand M., New York, N. Y. Ball-rolling apparatus. No. 1,399,687; Dec. 6.
- Candee, Andrew H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,367,118; Feb. 1; v. 283; p. 47.
- Candee, Andrew H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Centrifugal fan. No. 1,378,008; May 17; v. 286; p. 420.
- Candee, Andrew H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,387,466; Aug. 16; v. 289; p. 421.
- Candee, Andrew H., Pittsburgh, and H. H. Johnston, Edgewood, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control system. No. 1,381,277; June 14; v. 287; p. 234.
- Candee, Bertram C., and W. N. Pierce, assignor to Pierce Fuse Corporation, Buffalo, N. Y. Fuse. No. 1,400,938; Dec. 20.
- Candee, L., & Company. (See Joseph, Frank A., assignor.)
- Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Mechanical movement. No. 1,387,101; Aug. 9; v. 289; p. 299.
- Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Machine element. No. 1,393,610; Oct. 11.
- Candido, Cosimo, New York, N. Y. Vehicle-fender. No. 1,368,387; Feb. 15; v. 283; p. 399.



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- Candlot, Charles, Paris, France. Conveyer. No. 1,386,158; Aug. 2; v. 289; p. 39.
- Caneavri, Joseph P., Port Arthur, Tex. Comb. No. 1,382,342; June 21; v. 287; p. 494.
- Canella, Frank O., Mason City, Iowa. Rail-joint. No. 1,378,009; May 17; v. 286; p. 421.
- Canelles, John, Superior, Wis. Wrench. No. 1,387,761; Aug. 16; v. 289; p. 481.
- Canfield, Dewey C., East Canaan, Conn. Sheet-metal press. No. 1,368,890; Feb. 15; v. 283; p. 497.
- Canfield, Edwin J. (See Madden, J., and Canfield.)
- Canneld, George E., assignor to J. M. Dobson, Minneapolis, Minn. Centrifugal governor for Fordson tractors. No. 1,393,084; Oct. 11.
- Canfield, John A., Danbury, Conn. Coin-adding machine. No. 1,389,122; Aug. 30; v. 289; p. 861.
- Cangen, Mark, Brooklyn, N. Y. Shank-stiffener for shoes. No. 1,394,884; Oct. 25.
- Canion, William G., Glen Burnie, Md., assignor to The National Manufacturing Company. Demountable rim. No. 1,389,123; Aug. 30; v. 289; p. 862.
- Canniff, William L., Janesville, Wis., assignor to General Motors Corporation, Detroit, Mich. Tractor-hitch. No. 1,396,927; Nov. 15.
- Canning, John E., Denver, Colo. Double-bar arch-band. No. 1,385,775; July 26; v. 288; p. 726.
- Cannizzaro, James V., New York, N. Y. Milk-bottle retainer. No. 1,394,142; Oct. 18.
- Cannold, Lester. (See Brown, John B., assignor.)
- Cannon, Burrell, Longview, Tex. Cotton harvester. No. 1,400,522; Dec. 20.
- Cannon, Charles A., and H. E. Scott, McNab, Ark. Fire-screen. No. 1,388,095; Aug. 16; v. 289; p. 546.
- Cannon, Felix, Hamlet, N. C. Locomotive driving-box. No. 1,384,881; July 12; v. 288; p. 282.
- Cannon, Frederick I., Bedford, Ohio. Roof-coating applicator. No. 1,393,747; Oct. 18.
- Cannon, George B., Jr. (See Howard, F. W. and Cannon.)
- Cannon, George W., Muskegon, Mich. Molding-flask. No. 1,376,602; May 3; v. 286; p. 42.
- Cannon, Hiram B., Port Huron, Mich. Furnace or oven. No. 1,371,773; Mar. 15; v. 284; p. 494.
- Cannon, Hiram B., Port Huron, Mich. Furnace or oven. No. 1,371,774; Mar. 15; v. 284; p. 495.
- Cannon, Thomas, Jr., West Durham, N. C. Lock. No. 1,373,301; Mar. 29; v. 284; p. 890.
- Cannon, Thomas E. (See Herman, G., Cannon, and Bettenburg.)
- Canova, Philip J., Jr., and C. E. Egan, Charleston, W. Va. Fire-extinguisher. No. 1,379,850; May 31; v. 286; p. 917.
- Canovsky, David, New Orleans, La. Combined washboiler and cooker. No. 1,371,297; Mar. 8; v. 284; p. 401.
- Canter, Vernon C. (See Burrell, G. A., Voress, and Canter.)
- Canton, Rolland J., Lynn, Mass. Bottle-capping and wire-removing machine. No. 1,381,278; June 14; v. 287; p. 234.
- Cantor, Solomon, New York, N. Y. Broom-holder. No. 1,390,881; Sept. 13; v. 290; p. 357.
- Cantor, Solomon, New York, N. Y. Broom. No. 1,390,882; Sept. 13; v. 290; p. 357.
- Cantleberry, Frank W., Sisquoc, Calif. Device for supporting cooking utensils. No. 1,366,872; Jan. 25; v. 282; p. 677.
- Cantrall, Forrest L., Alturas, Calif., assignor, by mesne assignments, to Liberty Patents Syndicate. Steering wheel. No. 1,365,373; Jan. 11; v. 282; p. 300.
- Cantrall, Forrest L., assignor to H. M. Bennett, Oakland, Calif. Automobile-engine stop. No. 1,377,002; May 3; v. 286; p. 119.
- Cantrell, Edwin B., San Francisco, Calif., and G. E. Miller, Oakland, Calif., assignors to Cantrell-Miller Manufacturing Company, San Francisco, Calif. Oil retainer. (Reissue.) No. 15,061; Mar. 15; v. 284; p. 538.
- Cantrell-Miller Manufacturing Company. (See Cantrell, E. B., and Miller, assignors.) (Reissue.)
- Cantwell, Floyd A., Irving, Kans. Switch-stand. No. 1,366,356; Jan. 25; v. 282; p. 574.
- Cantwell, Fred L., San Bernardino, Calif. Blower. No. 1,381,401; June 14; v. 287; p. 257.
- Canvas Inner Tube Company. (See Bugg, Owen T., assignor.)
- Capaldo, Francesco. (See Buonocore, R., and Capaldo.)
- Capaldo, Francesco. (See Cassetta, V., and Capaldo.)
- Cape, John M., San Marcos, Tex. Boll-weevil-exterminating device. No. 1,380,351; June 7; v. 287; p. 5.
- Cape, Joseph S., Detroit, Mich. Electrode. No. 1,390,429; Sept. 13; v. 290; p. 266.
- Capell, Carl F., assignor of one-tenth to K. M. Brown, and one-tenth to D. L. Sistarelli, Los Angeles, Calif. Canning-machine. No. 1,366,116; Jan. 18; v. 282; p. 484.
- Capell, Gustav, assignor to Capell and Prall, Brooklyn, N. Y. Hydraulic jack. No. 1,364,865; Jan. 11; v. 282; p. 202.
- Capell and Prall. (See Capell, Gustav, assignor.)
- Capello, Arrigo. (See Quaglia, G., and Capello.)
- Capen, William H. (See Wier, H. B., and Capen.)
- Capener, Alick W. (See Sinfeld, E., and Goldfinch, assignors.)
- Capen Belting and Rubber Company. (See King, Charles E., assignor.)
- Capewell Horse Nail Company. (See Cutter, Solomon M., assignor.)
- Capewell, William R. H., Jamesburg, assignor of one-tenth to W. Heinrich, Merchantville, N. J. Valve. No. 1,380,307; May 31; v. 286; p. 1003.
- Capitano, Alessandro, Pittston, Pa. Square. No. 1,383,073; June 28; v. 287; p. 687.
- Capitske, Ernest, East Grand Forks, Minn. Manure-loader. No. 1,372,275; Mar. 22; v. 284; p. 648.
- Caplan, Nathan K., Detroit, Mich. Building structure. No. 1,384,235; July 12; v. 288; p. 251.
- Capon, Robert M., Liverpool, England. Sterilizing apparatus. No. 1,368,112; Feb. 8; v. 283; p. 297.
- Caponic, Arthur C., Havre de Grace, Md. Figure wheeled toy. No. 1,388,096; Aug. 16; v. 289; p. 546.
- Capper, Edward C., Prosper, Minn. Automatic fire-alarm device. No. 1,386,923; Aug. 9; v. 289; p. 263.
- Capper, Edward C., Prosper, Minn. Goggles. No. 1,386,989; Aug. 9; v. 289; p. 276.
- Capps, Frank L., Brooklyn, N. Y. Attachment for sound-boxes. No. 1,399,003; Dec. 6.
- Capps, Frank L., Brooklyn, N. Y., assignor to Pathe Freres Phonograph Company. Press. No. 1,370,185; Mar. 1; v. 284; p. 82.
- Capron, Franklin S. (See Deruiseaux, D., and Capron.)
- Caproni, Gianni, Milan, Italy. Multiplane flying-machine. No. 1,367,458; Feb. 1; v. 283; p. 115.
- Caproni, Gianni, Milan, Italy. Connecting element for aeroplanes. No. 1,370,583; Mar. 8; v. 284; p. 202.
- Caproni, Gianni, Via Durini, Italy. Flying-machine. No. 1,400,262; Dec. 13.
- Capsoni, Carlo, Alessandria, Italy. Apparatus for producing oscillatory movements. No. 1,388,097; Aug. 16; v. 289; p. 547.
- Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Drier for motion-picture films. No. 1,394,249; Oct. 18.
- Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Registering projected images. No. 1,394,504; Oct. 18.
- Capstain Glass Company. (See Kucera, Peter, assignor.)
- Capstrow, Arthur J., Detroit, Mich. Bumper. No. 1,371,145; Mar. 8; v. 284; p. 309.
- Car Dumper & Equipment Company. (See Simpson, G. N., and Williams, assignors.)
- Car Fastener Company. (See Carr, Fred S., assignor.)
- Caracristi, Virginius Z., Bronxville, N. Y. Valve-cut-off correction instrument for locomotives. No. 1,398,256; Nov. 29.
- Caracristi, Virginius Z., Bronxville, N. Y., assignor to The Gas Combustion Company, Pittsburgh, Pa. Gas-burner. No. 1,400,024; Dec. 13.
- Carbo-Gas Company, The. (See de Clairmont, Adolfo, assignor.)
- Carbon Products Company. (See Rendall, George F., assignor.)
- Carbone, Ernesto. (See Rubino, Emilio, assignor.)
- Carboni, Matthew J., New York, N. Y. Electric sign. No. 1,393,008; Oct. 11.
- Carborundum Company, The. (See Hartmann, Miner L., assignor.)
- Card, George G., assignor to The Columbus Climax Rubber Company, Columbus, Ohio. Tire-tube. No. 1,374,634; Apr. 12; v. 285; p. 284.
- Card, J. M., Lumber Co. (See Arn, Fred, assignor.)
- Carden, John V., Ascot, England. Automobile vehicle. No. 1,390,672; Sept. 13; v. 290; p. 316.
- Carden, Moses W., Opelika, Ala. Chair-operated churn. No. 1,385,242; July 19; v. 288; p. 541.
- Cardone, P., G. Fumagalli, and C. Surico, New York, N. Y. Dough-cutting machine. No. 1,373,796; Apr. 5; v. 285; p. 80.
- Cardone, Paul. (See Fumagalli, G., Surico, and Cardone.)
- Cardullo, Forrest E. (See Hunt, H. W., and Cardullo.)
- Cardullo, Forrest E., assignor to The G. A. Gray Company, Cincinnati, Ohio. Driving-gear for metal-planers. No. 1,384,382; July 12; v. 288; p. 282.
- Cardwell, Charles E., assignor of one-third to W. Baird, Houston, Tex. Self-closing bundle-receptacle. No. 1,377,114; May 3; v. 286; p. 140.
- Carek, Charles C., Touhy, Nebr. Antifriction device for leaf-springs. No. 1,396,251; Nov. 8.
- Carey, James A., Pittsburgh, Pa. Support for containers. No. 1,400,025; Dec. 13.
- Carey, John J., Brooklyn, N. Y. Automatic valve for gas-cocks and the like. No. 1,375,362; Apr. 19; v. 285; p. 486.
- Carey, Lawrence F. (See Coleman, Harry H., assignor.)
- Carey-McFall Co. (See McFall, William H., assignor.)
- Carey, Philip, Manufacturing Company, The. (See Moore, Albert E. F., assignor.)
- Carey, Robert R., Phillipsburg, N. J., W. L. Lukens and L. N. D. Mixsell, assignors to Bethlehem Steel Company, Bethlehem, Pa. Percussion-fuse. No. 1,397,855; Nov. 22.
- Carey, William P., New Orleans, La. Rat-guard. No. 1,373,597; Apr. 5; v. 285; p. 42.
- Carhart, Alfred B., Winchester, assignor to Crosby Steam Gate & Valve Company, Boston, Mass. Safety-valve. No. 1,393,258; Oct. 11.
- Carillon, Lewis G., Barberton, Ohio. Tire construction. No. 1,374,904; Apr. 19; v. 285; p. 308.



## Alphabetical list of patentees—Continued.

- Carkey, George M., Bloomington, Calif. Weeder. No. 1,398,500; Nov. 29.
- Carl, Victor F., Brookline, Mass. Tagging-machine. No. 1,396,406; Nov. 8.
- Carle, Harry S., Chicago, Ill. Door and gate brace. No. 1,393,611; Oct. 11.
- Carle, Leon P., North Raymond, Me. Circuit-testing apparatus. No. 1,395,037; Oct. 25.
- Carlen, Bjarne, Seattle, Wash., assignor to Vacuum Muffler Corporation, New York, N. Y. Muffler. No. 1,366,632; Jan. 25; v. 282; p. 630.
- Carlen, Bjarne, Nordstran, near Christiania, Norway. Silencer for internal-combustion engines. No. 1,382,472; June 21; v. 287; p. 519.
- Carleton, Francis B., Boston, Mass. Alcohol-torch. No. 1,398,676; Nov. 29.
- Carleton, Paul W. (See Lamb, A. B., and Carleton.)
- Carleton, William A., Governors Island, N. Y. Eye-shade. No. 1,401,758; Dec. 27.
- Carleton, William A., and C. E. Yoho, Bellaire, Ohio. Wrench. No. 1,398,125; Nov. 22.
- Carley, William J., assignor to M. Bessiers, Culpeper, Va. Wire-clamp. No. 1,382,620; June 28; v. 287; p. 600.
- Carlin, William J., Vallejo, Calif. Screwdriver attachment. No. 1,374,057; Apr. 5; v. 285; p. 132.
- Carlin, William M., Indianapolis, Ind. Piston. No. 1,391,938; Sept. 27; v. 290; p. 707.
- Carling, Francis, Belfast, Ireland. Artificial tooth. No. 1,391,651; Sept. 20; v. 290; p. 576.
- Carling Tool & Machine Company, The. (See Benson, Emil, assignor.)
- Carling Turbine Blower Co. (See Carlson, Axel W., assignor.)
- Carlisle, Bert, Santa Ana, Calif. Headlight for automobiles. No. 1,366,117; Jan. 18; v. 282; p. 484.
- Carlisle, Bert, Santa Ana, Calif. Searchlight for motor-vehicles. No. 1,380,813; May 31; v. 286; p. 1004.
- Carlisle, Bert, Santa Ana, Calif. Leak-detector. No. 1,384,888; July 19; v. 288; p. 468.
- Carlisle, Fred B., Davisville, R. I., assignor to J. M. Gilbert, New York, N. Y. Tread for vehicle-tires. No. 1,400,263; Dec. 13.
- Carlisle Tire Corporation. (See McClurg, John S., assignor.)
- Carloti, Joseph J., New York, N. Y. Therapeutic apparatus. No. 1,375,652; Apr. 19; v. 285; p. 542.
- Carlson, Adolph G., Chicago, Ill. Slag-disintegrator. No. 1,399,848; Dec. 13.
- Carlson, Alder G., Moose Lake, Minn. Flytrap. No. 1,373,650; Apr. 5; v. 285; p. 52.
- Carlson, Alfred, Klamath Falls, Oreg. Windmill gear and control mechanism. No. 1,369,396; Feb. 22; v. 283; p. 634.
- Carlson, Alvin E., Nevis, Minn. Dispensing device. No. 1,395,795; Nov. 1.
- Carlson, Androv H. (See Gilbert, C. E., and Carlson.)
- Carlson, Anton E., Merchantville, N. J. Valve-grinder. No. 1,401,391; Dec. 27.
- Carlson, Arnold G., Paterson, N. J. Automatic peening apparatus for piston-rings. No. 1,374,877; Apr. 12; v. 285; p. 331.
- Carlson, August, Dell Rapids, S. D. Automobile-wheel non-skid device. No. 1,396,556; Nov. 8.
- Carlson, August J., Tacoma, assignor to one-half to Andrew Niland, Seattle, Wash. Hair-clipper. No. 1,397,721; Nov. 22.
- Carlson, Axel. (See Swanson, P., and Carlson.)
- Carlson, Axel, Berkeley, Calif. Saw-making machine. No. 1,382,819; June 28; v. 287; p. 639.
- Carlson, Axel A. (See Rabezzana, Hector, assignor.)
- Carlson, Axel W., assignor to Carling Turbine Blower Co., Worcester, Mass. Fan-casing. No. 1,370,283; Mar. 1; v. 284; p. 100.
- Carlson, Axel W., assignor to Carling Turbine Blower Co., Worcester, Mass. Fan. No. 1,370,284; Mar. 1; v. 284; p. 100.
- Carlson, Caleb G., Carlshend, Mich. Quack-grass destroyer. No. 1,368,113; Feb. 8; v. 283; p. 298.
- Carlson, Carl A., New Britain, Conn. Universal vise. No. 1,383,524; July 5; v. 288; p. 55.
- Carlson, Charles J., Helena, Mont. Sawing-machine. No. 1,373,864; Apr. 5; v. 285; p. 94.
- Carlson, Charles N., Duluth, Minn. Pipe-holding band. No. 1,381,279; June 14; v. 287; p. 234.
- Carlson, Charles O., Providence, R. I. Shell-rim fastener for eyeglasses. No. 1,367,237; Feb. 1; v. 283; p. 71.
- Carlson, Charles R., assignor to one-half to J. H. Pearson, Aurora, Ill. Protective device for moving-picture machines. No. 1,369,397; Feb. 22; v. 283; p. 634.
- Carlson, Dean W., Manette, Wash. Automatic switch. No. 1,391,167; Sept. 20; v. 290; p. 478.
- Carlson, Einar F., Chicago, Ill. Shaft-coupling. No. 1,378,091; May 17; v. 286; p. 437.
- Carlson, Emanuel, Yonkers, and M. W. Richard, New York, N. Y.; said Richard assignor to said Carlson. Shade-roller. No. 1,379,898; May 31; v. 286; p. 926.
- Carlson, Erick W., Chicago, Ill. Automatic violin-player. No. 1,387,467; Aug. 16; v. 289; p. 421.
- Carlson, Frank W., Oilfields, Calif. Device for fastening belts. No. 1,391,168; Sept. 20; v. 290; p. 478.
- Carlson, Frederick E. (See Lamb, J. F., and Carlson.)
- Carlson, Frituif, Detroit, Mich. Pushing device for motor vehicles. No. 1,378,321; May 17; v. 286; p. 480.
- Carlson, George H., assignor to Hoeschen Manufacturing Company of Massachusetts, Worcester, Mass. Pressed-steel ball crank-handle. No. 1,374,186; Apr. 12; v. 285; p. 197.
- Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Holder for pencils, pens, &c. No. 1,365,374; Jan. 11; v. 282; p. 300.
- Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Method of and apparatus for manufacturing crochet-needles. No. 1,391,365; Sept. 20; v. 290; p. 518.
- Carlson, Gustav W., assignor to The Torbensen Axle Company, Cleveland, Ohio. Brake mechanism for motor-vehicles. No. 1,394,885; Oct. 25.
- Carlson, Hilmer, assignor to Hilmer F. Carlson and Company, Chicago, Ill. Potato-picker. No. 1,384,823; July 19; v. 288; p. 455.
- Carlson, Hilmer F., and Company. (See Carlson, Hilmer, assignor.)
- Carlson, Hjalmar G. (See Rockwood, G. I., and Carlson.)
- Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company, Omaha, Nebr. Railway-track instrument. No. 1,367,798; Feb. 8; v. 283; p. 238.
- Carlson, Hjalmar G., assignor, by mesne assignments, to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Forming a pressed metal article. No. 1,389,739; Sept. 6; v. 290; p. 36.
- Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Making handles and the like. No. 1,397,360; Nov. 15.
- Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Adjustable pipe-hanger. No. 1,398,294; Nov. 29.
- Carlson, Ivar, Leominster, assignor of one-third to Gerald Cahill, Lowell, Mass., and one-third to J. H. Lynch, Pawtucket, R. I. Aeroplane. No. 1,368,891; Feb. 15; v. 283; p. 498.
- Carlson, John, Chicago, Ill. Sprinkler. No. 1,380,769; June 7; v. 287; p. 85.
- Carlson, John, assignor of thirty-three and one-third per cent. to O. Anderson and fifteen and two-thirds per cent. to M. Carlson, Samuels, Idaho. Safety and sanitary milk-pail. No. 1,364,915; Jan. 11; v. 282; p. 211.
- Carlson, John C., Chicago Ill. Device for indicating the length and hang of coat-sleeves. No. 1,390,340; Sept. 13; v. 290; p. 248.
- Carlson, John W., Jamestown, N. Y. Auto-door lock. No. 1,372,276; Mar. 22; v. 284; p. 648.
- Carlson, Julius, Brooklyn, N. Y. Cap. No. 1,380,703; June 7; v. 287; p. 72.
- Carlson, Leroy, Hancock, Minn. Hoe-cleaner. No. 1,373,486; Apr. 5; v. 285; p. 21.
- Carlson, Mathias, et al. (See Carlson, John, assignor.)
- Carlson, Ole, Los Angeles, Calif. Milk-bottle-cap remover and retainer. No. 1,382,820; June 28; v. 287; p. 639.
- Carlson, Oscar F., Chicago, Ill. Valve-gear and control mechanism for engines and the like. No. 1,380,092; May 31; v. 286; p. 963.
- Carlson, Oscar F., Chicago, Ill. Burner. No. 1,392,909; Oct. 11.
- Carlson, Oscar F. H., assignor to Deere & Company, Moline, Ill. Lever. No. 1,392,299; Oct. 4.
- Carlson, Raymond, Mount Jewett, Pa. Lock. No. 1,372,481; Mar. 22; v. 284; p. 687.
- Carlson, Steener J., White Butter, S. D. Header-pusher for tractors. No. 1,380,352; June 7; v. 287; p. 6.
- Carlson, Swend, Butte, Mont. Sash-fastener. No. 1,398,174; Nov. 22.
- Carlson, Theodore, Stillwater, Wash. Hoisting device. No. 1,369,963; Mar. 1; v. 284; p. 40.
- Carlson, Theodore, Stillwater, Wash. Excavating and hoisting apparatus. No. 1,387,042; Aug. 9; v. 289; p. 286.
- Carlson, Victor R., assignor to one-half to J. Olson, Duluth, Minn. Band-brake. No. 1,386,454; Aug. 2; v. 289; p. 96.
- Carlson-Wenstrom Co. (See Lundgren, Jacob, assignor.)
- Carlsson, Bernhard G., Los Angeles, Calif. Gas-regulator. No. 1,390,759; Sept. 13; v. 290; p. 333.
- Carlsson, Charles L., Ivoryton, Conn. Rail joint and bond. No. 1,383,074; June 28; v. 287; p. 687.
- Carlsson, Olof, and E. Thall, Stockholm, Sweden, assignors to Atlas Powder Company, Wilmington, Del. Reducing the viscosity of viscous solutions of nitrocellulose and other esters. No. 1,375,208; Apr. 19; v. 285; p. 457.
- Carlstrom, Knut S., assignor to one-half to J. H. Studholme, Waltham, Mass. Recoil-pawl. No. 1,376,078; Apr. 26; v. 285; p. 655.
- Carman, Edwin S., and E. F. Oyster, assignors to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio. Automatic cut-off for air-jolt-machines. No. 1,379,799; May 31; v. 286; p. 907.
- Carman, Frank V., Oakland, Calif. Rail-joint-adjusting device. No. 1,373,598; Apr. 5; v. 285; p. 42.
- Carman, Terry O., Vallejo, Calif. Display-receptacle. No. 1,364,245; Jan. 4; v. 282; p. 38.
- Carmean, James H. (See Carmean, Samuel M. and J. H.)
- Carmean, James H., and H. F. and J. M. Roberts, Kansas City, Mo. Manifold-stove. No. 1,400,023; Dec. 13.
- Carmean, Samuel M. and J. H. Kansas City, Mo. Electric heater. No. 1,366,519; Jan. 25; v. 282; p. 607.



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- Carmean, Samuel M. and J. H., Kansas City, Mo. Electric heater. No. 1,399,688; Dec. 6.
- Carmichael, James J., Ridgway, Colo. Automatic cylinder-cock. No. 1,395,796; Nov. 1.
- Carmichael, Robert E., Houston, Tex. Pump-plunger. No. 1,396,714; Nov. 8.
- Carmody, Harold J., Brooklyn Manor, assignor of one-half to J. A. Faurot, New York, N. Y. Alarm for road-vehicles. No. 1,367,119; Feb. 1; v. 283; p. 47.
- Carmody, Harold J., Brooklyn Manor, assignor of one-half to I. McMeekan, Brooklyn, N. Y. Lock-washer. No. 1,368,604; Feb. 15; v. 283; p. 442.
- Carmody, Harold J., Brooklyn Manor, assignor of one-half to J. A. Faurot, New York, N. Y. Internal-combustion engine. No. 1,378,092; May 17; v. 286; p. 437.
- Carmody, Harold J., Brooklyn Manor, assignor of one-half to J. A. Faurot, New York, N. Y. Valve mechanism for internal-combustion engines. No. 1,378,093; May 17; v. 286; p. 437.
- Carmody, Harold J., Brooklyn Manor, assignor of one-half to J. A. Faurot, New York, N. Y. Whistle. No. 1,397,263; Nov. 15.
- Carmody, Harold J., Woodhaven, assignor of one-third to J. M. Levine and one-third to H. Uland, New York, N. Y. Transmitter. No. 1,372,862; Mar. 29; v. 284; p. 803.
- Carmody, John C., and L. J. Block, Detroit, Mich.; said Block assignor to said Carmody. Air-pump. No. 1,370,516; Mar. 8; v. 284; p. 189.
- Carnation Milk Products Co. (See Grindrod, George, assignor.)
- Carnegie, Alfred L. (See Parsons, C. A., Cook, Carnegie, Ford, and Bone.)
- Carner, Henry E., Anaheim, Calif. Drawbar for tractors. No. 1,398,416; Nov. 29.
- Carnes Artificial Limb Co. (See Carnes, William T., assignor.)
- Carnes, William T., assignor to Carnes Artificial Limb Co., Kansas City, Mo. Lathe. No. 1,379,393; May 24; v. 286; p. 757.
- Carney, George E., Long Beach, Calif. Citrus-fruit-juice extractor. No. 1,386,552; Aug. 2; v. 289; p. 115.
- Carney, James P., Detroit, Mich., assignor of one-half to C. E. Long, Chicago, Ill. Emergency-knuckle for car-couplings. No. 1,379,960; May 31; v. 286; p. 938.
- Carnot Development Corporation. (See Hayes, Albert, assignor.)
- Caroland, Stonewall J., Woodlawn, Tenn. Hoop-coiling machine. No. 1,397,402; Nov. 15.
- Carolina Cotton & Woolen Mills Co., The. (See McGenniss, David, assignor.)
- Carolina Motor Company. (See Sils, Frederick R., assignor.)
- Carolina Pavement Company. (See Wilson, George A., Jr., assignor.)
- Carolus, Max, Teltow, near Berlin, Germany. Suspension-insulator. No. 1,398,937; Nov. 29.
- Caron Brothers. (See Lavallae, Joseph O. W., assignor.)
- Caron, Paul L. M., Paris, France. Manufacture of reinforced or ordinary concrete pipes by centrifugal force. No. 1,375,206; Apr. 19; v. 285; p. 457.
- Caron, Phileas. (See Caron, Wilfred and P.)
- Caron, Wilfred, Rumford, Me., and P., Amesbury, Mass. Compound tool. No. 1,365,658; Jan. 18; v. 282; p. 394.
- Carothers, William C. (See Trammell, E. M., and Carothers.)
- Carouso, Victor, Oakland, Calif. Battery switch-lock. No. 1,393,259; Oct. 11.
- Carpenter, Alexander, Carey, Ohio. Tractor. No. 1,371,859; Mar. 15; v. 284; p. 511.
- Carpenter, Allan O., Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Cooling means for compressors and pumps. No. 1,368,238; Feb. 15; v. 283; p. 370.
- Carpenter, Allan O., Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor. No. 1,393,085; Oct. 11.
- Carpenter, Allan O., Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor-unloader. No. 1,395,090; Oct. 25.
- Carpenter, Arthur C., Pasadena, Calif. Retriever for golf-balls. No. 1,380,526; June 7; v. 287; p. 38.
- Carpenter, Arthur H., assignor to The Colorado Vanadium Corporation, Sawpit, Colo. Recovering vanadium. No. 1,396,992; Nov. 15.
- Carpenter, Arthur H., and G. A. Baumann, assignors to The Colorado Vanadium Corporation, Sawpit, Colo. Treating vanadium ores and solutions. No. 1,393,748; Oct. 18.
- Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Treating storage-battery separators. No. 1,380,353; June 7; v. 287; p. 6.
- Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery separator. No. 1,380,354; June 7; v. 287; p. 6.
- Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery construction. No. 1,380,770; June 7; v. 287; p. 85.
- Carpenter, Campbell C., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Preparing storage-battery separators. No. 1,398,065; Nov. 22.
- Carpenter, Charles A. (See Benson, M. H., and Carpenter.)
- Carpenter, Charles C., Cincinnati, Ohio. Loose-sheet binder. No. 1,365,890; Jan. 18; v. 282; p. 440.
- Carpenter, Charles E., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,378,010; May 17; v. 286; p. 421.
- Carpenter, Charles U., Dayton, Ohio. Sheet-metal structure. No. 1,373,805; Apr. 5; v. 285; p. 95.
- Carpenter, Daniel A., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,386,090; Aug. 2; v. 289; p. 26.
- Carpenter, Grant, Eldred, Pa. Sidehill-plow. No. 1,375,626; Apr. 19; v. 285; p. 536.
- Carpenter, Ira L., assignor of one-half to W. E. Ayres, Los Angeles, Calif. Trolley-retriever. No. 1,380,314; May 31; v. 286; p. 1004.
- Carpenter, Linn E., East Orange, N. J., and E. E. Eldredge, Sidney, assignors to Phenix Cheese Company, New York, N. Y. Swiss cheese and sterilizing the same. No. 1,389,095; Aug. 30; v. 289; p. 856.
- Carpenter, Linn E., East Orange, N. J., and E. E. Eldredge, New Berlin, assignor to Phenix Cheese Company, New York, N. Y. Cheese and sterilizing the same. No. 1,389,577; Sept. 6; v. 290; p. 4.
- Carpenter, Purva V., Worth, N. C. Spark-plug. No. 1,401,670; Dec. 27.
- Carpenter, Robert G., Baltimore, Md. Fire-extinguishing device. No. 1,366,873; Jan. 25; v. 282; p. 678.
- Carpenter, Samuel D., assignor of one-third to F. E. Lamb and one-third to F. A. Campbell, St. Louis, Mo. Washing-machine. No. 1,379,247; May 24; v. 286; p. 729.
- Carpenter, William H., Brooklyn, N. Y. Signaling device. No. 1,391,243; Sept. 20; v. 290; p. 494.
- Carpenter, William J., assignor of one-half to J. J. Jordan, Chicago, Ill. Wrench. No. 1,386,596; Aug. 9; v. 289; p. 196.
- Carpmill, John F., New Britain, Conn. Buckle. No. 1,376,919; May 3; v. 286; p. 103.
- Carr, Alva B., Bellevue, Alberta, Canada. Valve. No. 1,380,527; June 7; v. 287; p. 38.
- Carr, Don P., Homer, Mich. Stone-picking machine. No. 1,381,540; June 14; v. 287; p. 283.
- Carr Fastener Company. (See Anderson, Andrew G., assignor.)
- Carr Fastener Company. (See Carr, Fred S., assignor.)
- Carr Fastener Company. (See Carr, Moses F., assignor.)
- Carr Fastener Company. (See Larssen, Lars A., assignor.)
- Carr, Francis, Ogden, Utah. Tool-chest. No. 1,366,243; Jan. 18; v. 282; p. 509.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,365,022; Jan. 11; v. 282; p. 233.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,376,001; Apr. 26; v. 285; p. 640.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,376,002; Apr. 26; v. 285; p. 640.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,102; Aug. 9; v. 289; p. 299.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,103; Aug. 9; v. 289; p. 299.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,387,104; Aug. 9; v. 289; p. 299.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,107; Aug. 9; v. 289; p. 300.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,108; Aug. 9; v. 289; p. 300.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,109; Aug. 9; v. 289; p. 300.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,387,110; Aug. 9; v. 289; p. 300.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,387,111; Aug. 9; v. 289; p. 300.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,387,112; Aug. 9; v. 289; p. 300.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,387,113; Aug. 9; v. 289; p. 301.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,387,114; Aug. 9; v. 289; p. 301.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,116; Aug. 9; v. 289; p. 301.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,117; Aug. 9; v. 289; p. 301.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,118; Aug. 9; v. 289; p. 301.



## Alphabetical list of patentees—Continued.

- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,119; Aug. 9; v. 289; p. 301.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,120; Aug. 9; v. 289; p. 302.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,121; Aug. 9; v. 289; p. 302.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener and means for securing its stud to carrying fabrics. No. 1,387,122; Aug. 9; v. 289; p. 302.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,123; Aug. 9; v. 289; p. 302.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener and means for securing its socket to carrying fabrics. No. 1,387,124; Aug. 9; v. 289; p. 302.
- Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener and means for securing its socket to carrying fabrics. No. 1,387,125; Aug. 9; v. 289; p. 302.
- Carr, Glenn D., Cambridge, Nebr. Bean-harvester. No. 1,392,113; Sept. 27; v. 290; p. 743.
- Carr, Irvin A., Waukegan, Ill. List-rack. No. 1,390,091; Sept. 6; v. 290; p. 108.
- Carr, James, Syracuse, N. Y. Tool-chuck. No. 1,393,260; Oct. 11.
- Carr, James W., *et al.* (See Waithman, Charles H., assignor.)
- Carr, John A., assignor to Martin Iron Works, Los Angeles, Calif. Irrigation-valve. No. 1,399,928; Dec. 13.
- Carr, John J., Yonkers, N. Y. Ticket-case. No. 1,373,797; Apr. 5; v. 285; p. 81.
- Carr, John J., Yonkers, N. Y. Ticket-case. No. 1,511,118; June 7; v. 287; p. 148.
- Carr, Joseph W., and E. W. Matz, Evansville, Ind. Draft-equalizer for steam-boilers. No. 1,386,050; Aug. 2; v. 289; p. 18.
- Carr-Lowrey Glass Company. (See Newell, Louis B., assignor.)
- Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,365,023; Jan. 11; v. 282; p. 233.
- Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,126; Aug. 9; v. 289; p. 303.
- Carr, Ralph L. (See Vigil, Juan M., assignor.)
- Carr, Selby C., Oklahoma, Okla. Automatic cut-off valve. No. 1,385,112; July 19; v. 288; p. 515.
- Carr, William C., Buffalo, N. Y. Controlling mechanism for motor-trucks. No. 1,368,892; Feb. 15; v. 283; p. 498.
- Carr, William C., Buffalo, N. Y. Change-speed mechanism. No. 1,388,324; Aug. 23; v. 289; p. 650.
- Carrard, Alfred. (See Brown, E., and Carrard.)
- Carrette, Armand. (See Sigalon, Antoine, assignor.)
- Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Compressor. No. 1,364,246; Jan. 4; v. 282; p. 38.
- Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Packing pistons. No. 1,375,207; Apr. 19; v. 285; p. 457.
- Carrey, John O., assignor to Carrey Rotary Engine Company, St. Louis, Mo. Rotary air-compressor. No. 1,379,248; May 24; v. 286; p. 729.
- Carrey Rotary Engine Company. (See Carrey, John O., assignor.)
- Carriek, Everett C., Scottsbluff, Nebr., assignor of one-half to N. A. Lockwood, Ogden, Utah. Continuous sugar-washing machine. No. 1,367,946; Feb. 8; v. 283; p. 266.
- Carrico, Noel. (See Hughes, Frank C., assignor.)
- Carrico, Noel, Sidney, Mont., assignor of one-half to F. C. Hughes, Evanston, Ill. Mending electric resistance elements. No. 1,399,420; Dec. 6.
- Carrie Gyroscopic Corporation, The. (See Rossiter, George A., assignor.)
- Carrie, James, Newark, N. J., assignor to W. D. Sawyer, Milwaukee, Wis. Grinding and polishing machine. No. 1,375,129; Apr. 19; v. 285; p. 442.
- Carrie, Numa U., New Orleans, La. Freight-car. No. 1,373,052; Mar. 29; v. 284; p. 840.
- Carrier, Albert H., Asheville, N. C., assignor of one-half to E. W. Grove, St. Louis, Mo. Building-block. No. 1,386,314; Aug. 2; v. 289; p. 70.
- Carrier, Albert H., Asheville, N. C., assignor of one-half to E. W. Grove, St. Louis, Mo. Producing laths. No. 1,394,273; Oct. 18.
- Carrier, Carl F. P., Philadelphia, Pa. Indicating device for thermal cut-outs. No. 1,368,482; Feb. 15; v. 283; p. 418.
- Carrier Engineering Corporation. (See Andrews, Charles W., assignor.)
- Carrier Engineering Corporation. (See Carrier, Willis H., assignor.)
- Carrier Engineering Corporation. (See Harrison, Burt S., assignor.)
- Carrier Engineering Corporation. (See Stacey, Alfred E., Jr., assignor.)
- Carrier, Willis H., assignor to Carrier Engineering Corporation, Buffalo, N. Y. Method of and apparatus for drying, conditioning, and regulating the moisture content of hygroscopic materials. No. 1,393,086; Oct. 11.
- Carriere, Donald E., Capreol, Ontario, Canada. Chuck. No. 1,396,022; Nov. 8.
- Carrino, Andrew, Sterling, Ill. Catapult. No. 1,384,046; July 12; v. 288; p. 213.
- Carolina Automatic Machinery Company. (See Martin, J. A., and Lee, assignors.)
- Carroll, Andrew L., St. Louis, Mo. Car-wheel. No. 1,367,799; Feb. 8; v. 283; p. 238.
- Carroll, Andrew L., St. Louis, Mo. Car-wheel. No. 1,367,800; Feb. 8; v. 283; p. 239.
- Carroll, Arthur W., and G. P. Stoddard, Seattle, Wash. Trolley-pole. No. 1,396,928; Nov. 15.
- Carroll, Charles E., Newport, Ark. Toothbrush. No. 1,389,624; Sept. 6; v. 290; p. 13.
- Carroll, Charles E., Malden, Mass. Card-counter. No. 1,393,009; Oct. 11.
- Carroll, Earl C., and H. E. Huffman, said Huffman assignor to A. L. Gebhard, Bryan, Ohio. Driving mechanism. No. 1,370,087; Mar. 1; v. 284; p. 63.
- Carroll, Elbert H., assignor to Morgan Construction Company, Worcester, Mass. Clutch-operating mechanism. No. 1,383,525; July 5; v. 288; p. 55.
- Carroll, Houston M., Sr., San Antonio, Tex. Washing-machine. No. 1,379,851; May 31; v. 286; p. 917.
- Carroll, John D., West Lafayette, assignor to Turbo Rotary Engine Company, Evansville, Ind. Rotary engine. No. 1,365,226; Jan. 11; v. 282; p. 271.
- Carroll, M. W., Jr., assignor to Automotive Supply Manufacturing Company, Dallas, Tex. Wind-guard. No. 1,389,935; Sept. 6; v. 290; p. 76.
- Carroll, Paul W., Des Moines, Iowa. Wringer device. No. 1,392,478; Oct. 4.
- Carroll, Thomas, and J. C. Lockyer, assignors to The National Cash Register Company, Dayton, Ohio, (Incorporated in 1906.) Perforating mechanism for cash-registers. No. 1,387,762; Aug. 16; v. 289; p. 482.
- Carroll, Vincent D., Chicago, Ill. Regulator. No. 1,384,554; July 12; v. 288; p. 318.
- Carroll, Wilbur R., Bloomfield, Iowa. Flue-stopper. No. 1,397,753; Nov. 22.
- Carroll, William L., *et al.* (See Gill, George W., assignor.)
- Carroll, William P., Portland, Me. Signal device for automobiles. No. 1,398,677; Nov. 29.
- Carruth, William G., Brooklyn, N. Y. Safety device for tanks. No. 1,372,062; Mar. 22; v. 284; p. 606.
- Carruth, William G., Brooklyn, N. Y. Safety device for tanks. No. 1,372,063; Mar. 22; v. 284; p. 606.
- Carruthers, Jesse P. (See Johnson, C. A., and Carruthers.)
- Carscadin, Charles A., assignor to American Steel Foundries, Chicago, Ill. Yoke for draft-gears. No. 1,401,311; Dec. 27.
- Carse, David B., Sharon, Conn. Advertising device. No. 1,364,916; Jan. 11; v. 282; p. 211.
- Carson, Benjamin T., Rensselaer, N. Y. Tool-holder. No. 1,382,413; June 21; v. 287; p. 507.
- Carson, Benjamin T., Rensselaer, N. Y. Tool-holder. No. 1,392,269; Sept. 27; v. 290; p. 774.
- Carson, Clarence, New Rochelle, N. Y., assignor to H. W. Johns-Manville Company. Roofing-clamp. No. 1,397,033; Nov. 15.
- Carson, Essie C., administratrix. (See Carson, Renick H.)
- Carson, Geary E., Albany, N. Y. Running-board saddle. No. 1,396,727; Nov. 15.
- Carson, George G., *et al.* (See Carson, Robert H., assignor.)
- Carson, George J., Worcester, Mass. Centering-machine. No. 1,375,896; Apr. 26; v. 285; p. 620.
- Carson, Harry C., Cheviot, Ohio. Gearing for vehicle-signals. No. 1,382,624; June 28; v. 287; p. 601.
- Carson, Harry L., and R. A. Hunter, Fort Worth, Tex. Detachable mangle. No. 1,398,501; Nov. 29.
- Carson, James, Tottenham Hale, assignor of one-third to A. L. Churchill and one-third to J. W. W. Gabriel, London, England. Lathe. No. 1,367,459; Feb. 1; v. 283; p. 115.
- Carson, John A., Huntington, N. Y. Valve. No. 1,381,795; June 14; v. 287; p. 331.
- Carson, Livina P., administratrix. (See Carson, Walter W.)
- Carson, Oswald B., Brooklyn, N. Y. Spectacle-case. No. 1,367,120; Feb. 1; v. 283; p. 47.
- Carson, Renick H., deceased, Kansas City, Mo., E. C. Carson, administratrix. Fluid transmission and clutch mechanism. No. 1,374,985; Apr. 19; v. 285; p. 413.
- Carson, Robert H., assignor to G. W. Reed, Danville, Ill. Centrifugal pump. No. 1,382,604; June 21; v. 287; p. 544.
- Carson, Robert H., assignor of one-sixth to G. W. Reed, one-sixth to M. L. Coutant, one-sixth to T. J. Hawkins, one-sixth to H. C. Adams, and one-sixth to G. G. Carson, Danville, Ill. Centrifugal pump. No. 1,382,605; June 21; v. 287; p. 544.
- Carson, Robert N., San Francisco, Calif. Glove construction. No. 1,388,549; Aug. 23; v. 289; p. 693.
- Carson, Walter W., deceased; L. P. Carson, administratrix, Tipton, Ind. Back-stop attachment for straw-stackers. No. 1,376,251; Apr. 26; v. 285; p. 688.



## Alphabetical list of patentees—Continued.

- Carson, William E., Riverton, Va. Cold-water paint and making same. No. 1,390,496; Sept. 13; v. 290; p. 279.
- Carstens, Alexander B., Monterey, Mexico, assignor to The American Metal Company, Limited. Blast-furnace. No. 1,393,749; Oct. 18.
- Carstens, H., Manufacturing Company. (See Carstens, Herbert H., assignor.)
- Carstens, Herbert H., assignor to H. Carstens Manufacturing Co., Chicago, Ill. Tonsillotome. No. 1,397,677; Nov. 22.
- Carston, Fred. (See Earle, H. M., Vaugeois, and Carston.)
- Carswell, Joseph S., and A. R. Hammond, Boone, Iowa. Motor-block stand. No. 1,380,704; June 7; v. 287; p. 72.
- Carter, Arthur B., Brattleboro, Vt. Shipping-container for motion-picture reels. No. 1,365,659; Jan. 18; v. 282; p. 394.
- Carter, Byron B., Hinsdale, assignor to C. D. Allen, Chicago, Ill. Fire-extinguisher. No. 1,401,135; Dec. 27.
- Carter, Charles D., New York, N. Y., assignor to The Floyd-Wells Co., Royersford, Pa. Stove or range. No. 1,397,856; Nov. 22.
- Carter, Charles H., Farmers Fork, Va. Automatic fish-cleaner. No. 1,394,711; Oct. 25.
- Carter, Charles H., assignor to M. M. Sterling, Brooklyn, N. Y. Culinary implement. No. 1,378,522; May 17; v. 286; p. 518.
- Carter, Clarence W., Minneapolis, Minn. Grain-separator. No. 1,364,247; Jan. 4; v. 282; p. 39.
- Carter, Clarence W., Minneapolis, Minn. Drying granular material. No. 1,384,047; July 12; v. 288; p. 213.
- Carter, Clark E., assignor of one-half to A. R. McBeath, Montreal, Quebec, Canada. Target apparatus. No. 1,396,698; Nov. 8.
- Carter, Ernest, *et al.* (See Charlton, George, assignor.)
- Carter, Frederic E., Newark, N. J., assignor to Baker & Company, Inc. Alloy. No. 1,378,996; May 24; v. 286; p. 682.
- Carter, Frederick E., Yuma, Colo. Truck. No. 1,374,986; Apr. 19; v. 285; p. 414.
- Carter, Fredrick, Ste. Agathe des Monts, Quebec, Canada. Dyeing-machine. No. 1,400,417; Dec. 13.
- Carter, George M., assignor of one-half to R. H. Rosenberg, Findlay, Ohio. Internal expanding brake. No. 1,385,482; July 26; v. 288; p. 666.
- Carter, George M., assignor of one-half to R. H. Rosenberg, Findlay, Ohio. Making vehicle-axles. No. 1,385,483; July 26; v. 288; p. 666.
- Carter, George R., Co., The. (See Bolender, J. D., and Creamer, assignors.)
- Carter, Hilton P. M., Montreal, Quebec, Canada. Sector-cable. No. 1,393,750; Oct. 18.
- Carter, James A., St. Louis, Mo. Wheel. No. 1,376,603; May 3; v. 286; p. 43.
- Carter, James A., St. Louis, Mo. Vehicle-wheel. No. 1,379,441; May 24; v. 286; p. 765.
- Carter, James S., Roby, Tex. Double tongue. No. 1,388,798; Aug. 23; v. 289; p. 742.
- Carter, Joseph, Saskatoon, Saskatchewan, Canada. Game. No. 1,398,837; Nov. 29.
- Carter, Julius P., *et al.* (See Sawtelle, Edmund M., assignor.)
- Carter, Kenneth W., San Antonio, Tex. Highway for grade-crossings. No. 1,391,995; Sept. 27; v. 290; p. 720.
- Carter, Lionel A., assignor of one-third to J. J. Mullen and one-third to T. O. Moloney, St. Louis, Mo. Metal-severing apparatus. No. 1,396,993; Nov. 15.
- Carter, Nixon L., Newport News, Va. Dome-support. No. 1,380,946; June 7; v. 287; p. 119.
- Carter, Ralph B., Company. (See Carter, Ralph B., assignor.)
- Carter, Ralph B., Haworth, N. J., assignor to Ralph B. Carter Company, New York, N. Y. Pump. No. 1,374,156; Apr. 5; v. 285; p. 150.
- Carter, Ronald S., Vancouver, British Columbia, Canada. Advertising device. No. 1,385,665; July 26; v. 288; p. 704.
- Carter, Rufus, Jr., Danville, Va. Vehicle-seat support. No. 1,390,506; Sept. 13; v. 290; p. 281.
- Carter, Samuel W., Omaha, Nebr. Adjustable pitch and reversible propeller for airplanes and other lighter-than-air ships. No. 1,383,388; July 5; v. 288; p. 27.
- Carter, Thomas, & Sons. (See Boston, John, assignor.)
- Carter, William O. (See Marconet, O. P., and Carter.)
- Carter, William W., Needham, assignor to Industrial and Research Laboratories, Boston, Mass. Fibrous material. No. 1,365,891; Jan. 18; v. 282; p. 441.
- Carter, Willis M., New York, N. Y. Cellular-sheet display. No. 1,368,483; Feb. 15; v. 283; p. 418.
- Carter, Willis M., Jersey City, N. J., assignor to The W. F. Powers Company, New York, N. Y. Tire-display support. No. 1,388,848; Aug. 30; v. 289; p. 806.
- Cartier, Joseph, and C. Delcourt, Fall River, said Cartier assignor of one-half to J. E. Rochette, Norwich, Mass. Loom-check. No. 1,364,710; Jan. 4; v. 282; p. 128.
- Cartier, Joseph, and C. Delcourt, Fall River, Mass.; said Delcourt assignor, by mesne assignments, of all his right to J. E. Rochette, Norwich, Conn. Loom-check. (Reissue). No. 15,081; Apr. 12; v. 285; p. 335.
- Cartin, Morris B. (See Rohan, Joseph P., assignor.)
- Cartledge, Cora H., Philadelphia, Pa. Container. No. 1,387,237; Aug. 9; v. 289; p. 323.
- Cartledge, Francis J., assignor to Ipswich Mills, Ipswich, Mass. Device for handling and conveying textile or other articles and materials. No. 1,367,017; Feb. 1; v. 283; p. 27.
- Cartledge, Frank, Claremont, N. H., assignor to Sullivan Machinery Company. Mining-machine truck. No. 1,401,759; Dec. 27.
- Cartwright, David J., New York, N. Y. Fuel-feeding pump. No. 1,380,771; June 7; v. 287; p. 85.
- Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Ejector or injector. No. 1,369,398; Feb. 22; v. 283; p. 635.
- Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Water-elevating apparatus. No. 1,383,599; July 5; v. 288; p. 70.
- Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Street and sewer cleaning apparatus. No. 1,388,510; Aug. 23; v. 289; p. 686.
- Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Portable pumping apparatus. No. 1,388,511; Aug. 23; v. 289; p. 687.
- Cartwright, Hattie H. (See Ray, William L., assignor.)
- Carty, Charles R. (See Carty, Sylvester L., assignor.)
- Carty, Sylvester L., Tusculumbia, Mo., assignor of one-half to C. R. Carty, Walnut Ridge, Ark. Sash-fastener. No. 1,400,939; Dec. 20.
- Cartzdafner, Roy E., Passaic, N. J., assignor to Magor Car Corporation, New York, N. Y. Dump-car. No. 1,375,561; Apr. 19; v. 285; p. 524.
- Cartzdafner, Roy E., Passaic, N. J., assignor to Magor Car Corporation, New York, N. Y. Shock-absorber for dump-cars. No. 1,375,563; Apr. 19; v. 285; p. 524.
- Cartzdafner, Roy E., Passaic, N. J., assignor to Magor Car Corporation, New York, N. Y. Dump-car. No. 1,375,564; Apr. 19; v. 285; p. 524.
- Cartzdafner, Roy E., and H. A. Ketcham, Passaic, N. J., assignors, by mesne assignments, to Magor Car Corporation. Valve mechanism. No. 1,375,562; Apr. 19; v. 285; p. 524.
- Carvalho, Leslie R. N. (See Merolle, Augustus L., assignor.)
- Carver, Malcolm, Boston, Mass. Counter-fixture. No. 1,367,859; Feb. 8; v. 283; p. 250.
- Carver, Thomas A. B., Glasgow, Scotland. Picture or design having motion effect. No. 1,398,838; Nov. 29.
- Carver, Thomas C., Milwaukee, Wis. Pedal-cover. No. 1,370,730; Mar. 8; v. 284; p. 231.
- Carvor, Walter L. (See Funk, T. B., and Carver.)
- Carver, Wilfred A., Buffalo, N. Y. Fountain-feed rotary brush. No. 1,393,663; Oct. 11.
- Carvin, Edward O., Alhagany, Calif. Tire-deflation indicator. No. 1,365,375; Jan. 11; v. 282; p. 300.
- Cary, Frederick S., and G. E. Russell, Wilmington, Calif. Liquid-dispensing device. No. 1,375,363; Apr. 19; v. 285; p. 486.
- Cary, Jesse H., Valdosta, Ga. Ice crushing and conveying mechanism. No. 1,386,315; Aug. 2; v. 289; p. 70.
- Cary Manufacturing Company. (See Cary, S. C., and Ragona, assignors.)
- Cary Manufacturing Company. (See Cary, Spencer C., assignor.)
- Cary Manufacturing Company. (See Ragona, Vincent, assignor.)
- Cary, Spencer C., New York, N. Y. Making corrugated fasteners. No. 1,372,601; Mar. 22; v. 284; p. 710.
- Cary, Spencer C., assignor to Cary Manufacturing Company, Brooklyn, N. Y. Means for tying and sealing shipping-packages. No. 1,386,395; Aug. 2; v. 289; p. 85.
- Cary, Spencer C., and V. Ragona, assignors to Cary Manufacturing Company, Brooklyn, N. Y. Band-tightener. No. 1,367,121; Feb. 1; v. 283; p. 47.
- Cary, William E., Springfield, Vt. Truss. No. 1,364,611; Jan. 4; v. 282; p. 109.
- Cary, William N., Albany, N. Y., assignor to The American Equipment Company. Brick-carrying frame. No. 1,377,667; May 10; v. 286; p. 302.
- Casaday, James O., South Bend, Ind. Internal-combustion engine. No. 1,372,216; Mar. 22; v. 284; p. 636.
- Casale, Luigi, Terni, Italy. Generating from air and hydrogen either nitrogen and hydrogen mixtures or nitrogen. No. 1,384,428; July 12; v. 288; p. 292.
- Casale Safety Device Company. (See Shaver, Archibald G., assignor.)
- Casali, Antonio, assignor of one-half to E. I. Taylor, Hamilton, Ontario, Canada. Non-removable nut. No. 1,399,191; Dec. 6.
- Casalis, Giacomo. (See Biagi, A., and Casalis.)
- Casalis, Giacomo, Viauville, Quebec, Canada. Spring-wheel. No. 1,366,118; Jan. 18; v. 282; p. 484.
- Casarotti, Romeo A., Nicasio, Calif. Milking-machine. No. 1,379,800; May 31; v. 286; p. 907.
- Case, Arold M., Bridgeton, Ind. Rug storing and display rack. No. 1,394,469; Oct. 18.
- Case, B. C. (See Baldwin, Jesse, assignor.)
- Case, Edward R., Oneida, N. Y. Automatic air-valve. No. 1,399,004; Dec. 6.
- Case, Egerton R., Toronto, Ontario, Canada. Portable collapsible collecting contrivance. No. 1,368,697; Feb. 15; v. 283; p. 460.
- Case, Egerton R., Toronto, Ontario, Canada. Method of and means for treating air. No. 1,378,094; May 17; v. 286; p. 437.



*Alphabetical list of patentees—Continued.*

- Case, Egerton R., Toronto, Ontario, Canada. Electric device for treating air. No. 1,378,095; May 17; v. 286; p. 437.
- Case, Francis M., assignor to J. C. Hub, Cleveland, Ohio. Tapping-machine. No. 1,365,089; Jan. 11; v. 282; p. 245.
- Case, G. Harry, Philadelphia, Pa., assignor to J. T. Ryerson & Son, Chicago, Ill. Controlling system for feed-motors. No. 1,386,159; Aug. 2; v. 289; p. 39.
- Case, George A., Joplin, Mo. Agricultural system. No. 1,391,169; Sept. 20; v. 290; p. 478.
- Case, J. I., Plow Works. (See Michael, Clement W., assignor.)
- Case, J. I., Plow Works Company. (See Hendrickson, Robert O., assignor.)
- Case, J. I., Threshing Machine Company. (See Crawford, John F., assignor.)
- Case, J. I., Threshing Machine Company. (See Davies, David P., assignor.)
- Case, J. I., Threshing Machine Company. (See Morrissey, Patrick W., assignor.)
- Case, J. I., Threshing Machine Company. (See Smith, Henry S., assignor.)
- Case Making Machine Company, The. (See Crosbie, Robert G., assignor.)
- Case & Martin Company. (See Ehrlich, William, assignor.)
- Case, Theodore W., Scipio, N. Y. Signaling system. No. 1,369,781; Mar. 1; v. 284; p. 6.
- Case, Theodore W., Scipio, N. Y. Producing photo-electric cells. No. 1,376,604; May 3; v. 286; p. 43.
- Case, Theodore W., Scipio, N. Y. Photo-electric cell. No. 1,376,605; May 3; v. 286; p. 43.
- Case, Theodore W., Scipio, N. Y. Photo-electric cell. No. 1,376,606; May 3; v. 286; p. 43.
- Case, Theodore W., Scipio, N. Y. Radiant-energy signaling system. No. 1,379,166; May 24; v. 286; p. 714.
- Case, Theodore W., Scipio, N. Y. Wireless receiver. No. 1,379,167; May 24; v. 286; p. 714.
- Case, Theodore W., Scipio, N. Y. Radiant-energy detecting and translating device. No. 1,390,883; Sept. 13; v. 290; p. 258.
- Case, William A., Plainfield, N. J., assignor of one-third to S. Gottschall and one-third to Eichengreen Sales Corporation, New York, N. Y. Compartment-box. No. 1,385,484; July 26; v. 288; p. 667.
- Case, William R., Seattle, Wash. Mushroom anchor. No. 1,384,824; July 19; v. 288; p. 455.
- Case, William W., Frenchtown, assignor to W. H. Fulper, Flemington, N. J. Rocket. No. 1,376,797; May 3; v. 286; p. 79.
- Casein Manufacturing Company, The. (See Dunham, Andrew A., assignor.)
- Casella, Secondo L., assignor to National Carbon Company, Inc., New York, N. Y. Machine for polishing battery-cells. No. 1,388,403; Aug. 23; v. 289; p. 666.
- Casey, Elizabeth A., Pittsburgh, Pa. Hot-air candy-cooker. No. 1,385,113; July 19; v. 288; p. 516.
- Casey, George H., Ione, Wash. Tongs. No. 1,366,244; Jan. 18; v. 282; p. 509.
- Casey-Hedges Co., The. (See Stimmel, Frederick C., assignor.)
- Casey, Herman A., Duluth, Minn. Electrode-holder. No. 1,400,418; Dec. 13.
- Casey, James D. (See Evenden, A. L., and Casey.)
- Casey, Joseph A. (See Evenden, A. L., and Casey.)
- Casey, Marion R., Ware Shoals, S. C., assignor to M. H. Flowers, Asheville, N. C. Self-tightening gear and pulley attachment. No. 1,393,261; Oct. 11.
- Casey, Thomas. (See Koski, A. W., and Casey.)
- Casey, Thomas W., Yonkers, N. Y., assignor to National Pneumatic Company, Chicago, Ill. Support for third rails. No. 1,389,124; Aug. 30; v. 289; p. 862.
- Casey, William A. (See McKone, Leo J., assignor.)
- Casey, William F. J., and G. Cavin, Kingston, Ontario, Canada. Tank-valve for locomotive-tenders. No. 1,369,007; Feb. 22; v. 283; p. 559.
- Casey, William J., A. Haanes, Detroit, Mich. Hollow-walled receptacle. No. 1,374,905; Apr. 19; v. 285; p. 398.
- Casgrain, Charles E., Chicago, Ill. Counting attachment. No. 1,394,274; Oct. 18.
- Casgrain, Louis A., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,382,759; June 28; v. 287; p. 627.
- Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for forming fastenings. No. 1,382,760; June 28; v. 287; p. 628.
- Casgrain, Louis A., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. No. 1,384,178; July 12; v. 288; p. 240.
- Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for lasting rubber-sole footwear. No. 1,387,763; Aug. 16; v. 289; p. 482.
- Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing apparatus. No. 1,401,237; Dec. 27.
- Cash, Albert, Auburn, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J. Block-leveler. (Reissue.) No. 15,098; May 3; v. 286; p. 150.
- Cash, Alfred G. (See Brion, Harry O., assignor.)
- Cash, Arthur W., assignor to United States Wire Mat Co., Decatur, Ill. Device for the killing or disabling of flies and insects. No. 1,369,757; Feb. 22; v. 283; p. 705.
- Cash, Arthur W., assignor to United States Wire Mat Company, Decatur, Ill. Implement or device for killing or disabling insects, flies, or the like. No. 1,380,355; June 7; v. 287; p. 6.
- Cashman, Clarence G., assignor of one-half to J. B. Eader, Waynesboro, Pa. Floating chuck. No. 1,368,484; Feb. 15; v. 283; p. 418.
- Cashman, Clarence G., assignor of one-half to J. B. Eader, Waynesboro, Pa. Lathe-dog. No. 1,368,485; Feb. 15; v. 283; p. 419.
- Cashner, Roy C., assignor to L. B. Lewis, Kansas City, Mo. Toy vehicle. No. 1,394,275; Oct. 18.
- Casler, Herman, Canastota, N. Y. Drill-chuck. No. 1,391,299; Sept. 20; v. 290; p. 505.
- Casmire, Frederick B. (See Roberts, Oren F., assignor.)
- Casner, Thaddeus S., Plainfield, N. J. Secondary electric clock. No. 1,388,512; Aug. 23; v. 289; p. 687.
- Caspar, Charles H., Philadelphia, Pa. Propeller. No. 1,370,876; Mar. 8; v. 284; p. 258.
- Caspar, Charles H., Philadelphia, Pa. Aircraft. No. 1,373,409; Apr. 5; v. 285; p. 5.
- Caspar, Charles H., Philadelphia, Pa. Aircraft. No. 1,376,675; May 3; v. 286; p. 55.
- Caspers, Herman D., Sheffield, Iowa. Stock-separator. No. 1,381,797; June 14; v. 287; p. 332.
- Cass, Charles W., Salem, and W. L. Baxter, Beverly; said Cass assignor, by mesne assignments, of his entire right to Melburn Thompson Company, Salem, Mass. Drying apparatus. No. 1,372,337; Mar. 22; v. 284; p. 659.
- Cass, Christopher P., St. Louis, Mo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control device. No. 1,390,602; Sept. 13; v. 290; p. 301.
- Cass, Ernest D., Detroit, Mich. Non-skid plate for truck-wheels. No. 1,368,893; Feb. 15; v. 283; p. 498.
- Cass, Freeman, Brooklyn, N. Y. Feed-roller for spinning mechanism. No. 1,367,300; Feb. 1; v. 283; p. 83.
- Cass, Freeman, Brooklyn, assignor to Mitchell-Bissell Co., New York, N. Y. Thread-guide. No. 1,373,487; Apr. 5; v. 285; p. 21.
- Cassel, Gunnar E., assignor to Aktiebolaget Gyro, Stockholm, Sweden. Friction ratchet-gear. No. 1,377,559; May 10; v. 286; p. 281.
- Cassel, Gunnar E., assignor to Aktiebolaget Gyro, Stockholm, Sweden. Breast-drill. No. 1,387,921; Aug. 16; v. 289; p. 513.
- Cassel, Gunnar E., Stockholm, Sweden, assignor to Arthur Leffler, Djursholm, Sweden. Adjustable wrench. No. 1,389,487; Aug. 30; v. 289; p. 934.
- Cassell, Robeson W., Indianapolis, Ind. Game-board. No. 1,368,021; Feb. 8; v. 283; p. 280.
- Cassell, William E., Fort Scott, Kans. Dispensing-cabinet. No. 1,379,524; May 24; v. 286; p. 782.
- Cassels, Arnold V., Wellington, New Zealand. Trousers stretcher and presser. No. 1,368,894; Feb. 15; v. 283; p. 498.
- Cassetta, Vincenzo, and F. Capaldo, Naples, Italy. Machine-gun. No. 1,371,351; Mar. 15; v. 284; p. 412.
- Cassidy, Charles L. (See Moore, James R., assignor.)
- Cassidy, Robert, Mansfield, Ohio. Reel. No. 1,394,276; Oct. 18.
- Cassisa, Salvatore, New York, N. Y. Deep-well pump. No. 1,390,085; Sept. 6; v. 290; p. 106.
- Casswell, Leonard H., Maidstone, England. Lamp-shade holder. No. 1,381,796; June 14; v. 287; p. 331.
- Cast Steel Ship Corporation. (See Hill, Myron F., assignor.)
- Castanie, William, Port Arthur, Tex. Chuck. No. 1,401,312; Dec. 27.
- Castellanos, Guillermo, Los Angeles, Calif. Typewriter attachment. No. 1,391,244; Sept. 20; v. 290; p. 494.
- Castelle, James. (See Regen, O., and Castelle.)
- Castelli, Vitale E. (See Frattola, E., Castelli, and Regnoli.)
- Castleberry, William T., Artesia, N. Mex. Folding gate. No. 1,377,396; May 10; v. 286; p. 251.
- Castro, Guillermo P., New York, N. Y. Trouble-finder for internal-combustion engines. No. 1,378,937; May 24; v. 286; p. 671.
- Caswell, Herbert M., Kingman, Ariz. Wheelbarrow-handle. No. 1,392,114; Sept. 27; v. 290; p. 743.
- Caswell, Richard A. (See Caswell, Wallace and R. A. Caswell, Wallace and R. A., Cherokee, Iowa. Tandem hitch mechanism for harvesters, tractors, and the like. No. 1,365,376; Jan. 11; v. 282; p. 300.
- Catanzano, Gerolamo, Somerville, Mass. Propeller. No. 1,380,093; May 31; v. 286; p. 963.
- Cate, Petrus Ten B., Arnhem, Netherlands. Hydraulic plant. No. 1,396,994; Nov. 15.
- Catello, Patrick J., assignor of one-half to M. F. Schneible, Rome, N. Y. Clothes-drying cabinet. No. 1,395,797; Nov. 1.
- Caterson, Edward. (See Loons, J. E., and Robinson, assignors.)
- Cates, Calvin S., and W. Peters; said Peters assignor of one-half of his right to W. Elfert, St. James, Mo. Lock for valves. No. 1,377,668; May 10; v. 286; p. 302.



*Alphabetical list of patentees—Continued.*

- Cathcart, Charles W., Alexandria, Va. Coupling. No. 1,379,899; May 31; v. 286; p. 926.
- Cather, Charles E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Double envelop. No. 1,385,114; July 19; v. 288; p. 516.
- Cathroe, Harold J., Omaha, Nebr. Sewer construction. No. 1,367,511; Feb. 1; v. 283; p. 125.
- Catini, Asmo, Terni, Italy. Apparatus for polishing photographic pasteboard. No. 1,366,520; Jan. 25; v. 282; p. 607.
- Catlett, William C., Pritchett, Tex. Planter. No. 1,395,798; Nov. 1.
- Catlin, Hoyt, Fairfield, assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,393,612; Oct. 11.
- Catlin, Thomas S., Waveland, Ind. Jar-holder. No. 1,393,010; Oct. 11.
- Catlin, Thomas S., Waveland, Ind. Animal-trap. No. 1,396,810; Nov. 15.
- Catlin, William L., Chattanooga, Tenn. Lathe-tool holder. No. 1,383,981; July 5; v. 288; p. 150.
- Catlow, James N., *et al.* (See Viemeister, George A., assignor.)
- Caton, Robert H. (See Fowler, David M., assignor.)
- Cator, Richard G., assignor of one-half to F. J. Lawlor, Palmyra, N. Y. Automatic window-closing device. No. 1,396,252; Nov. 8.
- Catron, John J., Bonham, Tex. Vent device. No. 1,391,245; Sept. 20; v. 290; p. 494.
- Catron, John J., Bonham, Tex. Safety-razor. No. 1,394,886; Oct. 25.
- Catterson, Robert M., Los Angeles, Calif. Automobile-lock. No. 1,369,782; Mar. 1; v. 284; p. 6.
- Catucci, Pliny, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Spring-motor. No. 1,387,589; Aug. 16; v. 289; p. 447.
- Catucci Pliny and L. D. Nadel, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Device for bending tubes. No. 1,379,168; May 24; v. 286; p. 714.
- Caudron, René, Issy-les-Moulineaux, France. Tank. No. 1,367,460; Feb. 1; v. 283; p. 115.
- Caudron, René, Issy les Moulineaux, France. Detachable fuel-tank. No. 1,379,525; May 24; v. 286; p. 782.
- Caulk, L. D., Co., The. (See Smith, William C., assignor.)
- Caulk, L. D., Company, The. (See Zurbrigg, Daniel A., assignor.)
- Caumont, Leon F. (See Keogh, T. B., and Caumont.)
- Caumont, Leon F., New York, N. Y. Necktie-former. No. 1,367,461; Feb. 1; v. 283; p. 115.
- Cavalenes, John S. (See Soterios, L. C., and Cavalenes.)
- Cavanagh, James, Boston, Mass. Apparatus for supporting vehicle-axles. No. 1,364,248; Jan. 4; v. 282; p. 39.
- Cavanah, Howard E., and M. G. Scholl, Santa Barbara, Calif. Block-making machine. No. 1,383,526; July 5; v. 288; p. 55.
- Cavanaugh, Clarence W., Gloucester, Mass. Baby-swing. No. 1,379,082; May 24; v. 286; p. 697.
- Cavanaugh, James M., Big Oak Flat, Calif. Wrench. No. 1,382,761; June 28; v. 287; p. 628.
- Cave, Daniel B., assignor of one-fourth to H. M. George, one-fourth to E. A. Willner, one-eighth to C. P. Peterson, and one-eighth to R. W. Devore, Lincoln, Nebr. Placer-gold concentrator. No. 1,387,238; Aug. 9; v. 289; p. 323.
- Caverly, Ralph, Chicago, Ill. Drill. No. 1,395,091; Oct. 25.
- Cavin, Gustave. (See Casey, W. F. J., and Cavin.)
- Cawley, James and F. Hills, assignors to The Globe Pneumatic Engineering Company Limited, Westminster, London, England. Connecting-rod and crank-shaft. No. 1,399,713; Dec. 6.
- Cawthon, Samuel C. (See Ashbaugh, R. P., and Cawthon.)
- Cawthra, Ernest H., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Fuel supply and regulating system for aircraft-engines. No. 1,398,315; Nov. 29.
- Caylor, Jefferson, Indianapolis, assignor to Pioneer Box Company, Crawfordsville, Ind. Wire-bound package. No. 1,382,473; June 21; v. 287; p. 519.
- Caylor, Jefferson, Indianapolis, assignor to Pioneer Box Company, Crawfordsville, Ind. Wirebound package. No. 1,385,813; July 26; v. 288; p. 734.
- Cazel, Cassius E., and J. W. Le Craw, Cincinnati, Ohio. Brush. No. 1,374,820; Apr. 12; v. 285; p. 320.
- Cazell, Caesar. (See Jones, Edward F., assignor.)
- Cazenove, James O. H., New York, N. Y., assignor of one-third to R. B. Whitman, Bridgeport, Conn. Operating device for beaters. No. 1,385,605; July 26; v. 288; p. 691.
- Cazes, Victor L., Neuilly-sur-Seine, France. Gas-epurator. No. 1,364,832; Jan. 4; v. 282; p. 151.
- Cazes, Victor L., Neuilly-sur-Seine, France. Safety device for gas-producer adapted to act as gas filter, cooler, and drier. No. 1,364,833; Jan. 4; v. 282; p. 151.
- Cazes, Victor L., Neuilly-sur-Seine, France. Ash-pit for gas-producers mounted on automobiles. No. 1,391,877; Sept. 27; v. 290; p. 635.
- Cecka, Albert, Minneapolis, Minn. Automobile-fender. No. 1,378,322; May 17; v. 286; p. 480.
- Cedarberg, Ernest J., Caldwell, N. J. Toy. No. 1,364,711; Jan. 4; v. 282; p. 128.
- Cederberg, Ivar W., Lidingö-Brevik, assignor of seven-tenths to H. M. Bäckström, Djursholm, and G. A. Kyhlberger, Stockholm, Sweden. Producing ammonia. No. 1,396,557; Nov. 8.
- Cederblad, Harold, San Francisco, Calif. Toy. No. 1,378,765; May 17; v. 286; p. 565.
- Cedervall, Carl W., Gottenborg, Sweden. Stuffing-box for propeller-shafts. No. 1,399,421; Dec. 6.
- Ceever, Henry K., Hoboken, N. J. Automatic control of cinematograph or similar apparatus. No. 1,366,310; Jan. 18; v. 282; p. 522.
- Celeda, William, Newark, N. J. Smoking-pipe. No. 1,401,876; Dec. 27.
- Celite Products Company. (See Jordan, Walter L., assignor.)
- Celler, Arthur, assignor of one-half to T. B. O'Neill, Brooklyn, N. Y. Combined scraper and chopper. No. 1,388,481; Aug. 30; v. 289; p. 823.
- Celluloid Company, The. (See Lindsay, William G., assignor.)
- Cement-Gun Construction Company, *et al.* (See Beeby, Frank F., assignor.)
- Cement Products Company, *et al.* (See Beeby, Frank F., assignor.)
- Cement Products Company. (See Singers, E. H., and Loffland, assignors.)
- Cenerini, Leopoldo, Bristol, R. I. Ear-protector. No. 1,368,895; Feb. 15; v. 283; p. 498.
- Centervall, Hugo, Brooklyn, N. Y. Internal-combustion engine. No. 1,386,766; Aug. 9; v. 289; p. 231.
- Centervall, Hugo, Brooklyn, N. Y. Aerial torpedo. No. 1,388,932; Aug. 30; v. 289; p. 823.
- Central Commercial Company. (See Wardell, Henry R., assignor.)
- Central Manufacturing Company. (See Kintzele, Julius H., assignor.)
- Central Metal Products Corporation, The. (See Connell, Andrew J., assignor.)
- Central Oil & Gas Stove Company. (See White, Fred E., assignor.)
- Central Railway Signal Company. (See Dutcher, Frank, assignor.)
- Central Scientific Company. (See de Khotinsky, Archilles, assignor.)
- Central Scientific Company. (See Twardowsky, John, assignor.)
- Central Specialty Company. (See Collins, Clyde R., assignor.)
- Central Steel Company, The. (See McNally, T., and Orr, assignors.)
- Central Talking Machine Shop. (See Hadley, Walter C., assignor.)
- Cerf, Lester, Brooklyn, N. Y. Heel-fastener. No. 1,375,671; Apr. 26; v. 285; p. 578.
- Cesáro, Attilio, Genoa, Italy. Push-button switch for electric current. No. 1,383,527; July 5; v. 288; p. 55.
- Cesare, Castellari, Montreal, Quebec, Canada. Cigarette-making machine. No. 1,394,250; Oct. 18.
- Cessna, Charles L., Webster City, and J. V. Warden, Blairsburg, Iowa. Demountable-tube radiator. No. 1,370,186; Mar. 1; v. 284; p. 82.
- Cetwick, Emmet L., Bradford, assignor to The Leon Ferenbach Silk Co., Inc., Wilkes-Barre, Pa. Spool-holder. No. 1,364,249; Jan. 4; v. 282; p. 39.
- Chadbourne, Vaughn R., Beaumont, Tex. Oil-burner. No. 1,376,252; Apr. 26; v. 285; p. 688.
- Chadburn, William, Bournemouth, and W. R. Chadburn, Birkdale, England. Motion-transmission system. No. 1,390,092; Sept. 6; v. 290; p. 108.
- Chadburn, William R. (See Chadburn, William, and W. R.)
- Chadderdon, Ellis H., Cambridge, Nebr. Wheel attachment. No. 1,374,428; Apr. 12; v. 285; p. 244.
- Chadderdon, Ellis H., Cambridge, Nebr. Attachment for tractor-wheels. No. 1,374,429; Apr. 12; v. 285; p. 244.
- Chaddock, George A., Liverpool, England. Weight-controlled airship. No. 1,401,461; Dec. 27.
- Chadeloid Chemical Company. (See Brooks, Benjamin T., assignor.)
- Chadick, William H., Suffern, N. Y. Self-cleaning burner for fluid combustibles. No. 1,367,947; Feb. 8; v. 283; p. 266.
- Chadick, William H., Suffern, N. Y. Safety device for hydrocarbon-burners. No. 1,377,873; May 10; v. 286; p. 343.
- Chadwell, Samuel A., Sugar Grove, Ohio. Vapor-tension-measuring apparatus. No. 1,393,942; Oct. 18.
- Chadwick, Arthur B., South Whitley, Ind., assignor to Grip Nut Company, Chicago, Ill. Machine for compressing lock-nuts and the like. No. 1,391,170; Sept. 20; v. 290; p. 478.
- Chadwick, Fletcher, Rochdale, England. Frame for doubling yarns. No. 1,400,026; Dec. 13.
- Chadwick, Lee S., East Cleveland, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Drip-pan for stoves. No. 1,399,747; Dec. 13.
- Chadwick, Lee S., East Cleveland, and M. Resek, Cleveland Heights, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Treatment of iron or steel for the prevention of oxidation or rusting. No. 1,388,325; Aug. 23; v. 289; p. 650.



*Alphabetical list of patentees—Continued.*

- Chaffee, Edward F., assignor to O. M. Edwards Company, Inc., Syracuse, N. Y. Rack for windows. No. 1,370,948; Mar. 8; v. 284; p. 272.
- Chaffee, Edward F., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Spring-balance for window-sashes. No. 1,383,982; July 5; v. 288; p. 150.
- Chaffee, Emory L., Belmont, Mass. Means for changing the intensity of signals in radiodynamic receiving systems. No. 1,399,251; Dec. 6.
- Chaffin, Norman W., Brunwell, W. Va. Railway-switch. No. 1,383,188; June 28; v. 287; p. 709.
- Chaiken, Hyman F., Reading, Pa. Toothbrush. No. 1,391,459; Sept. 20; v. 290; p. 537.
- Chaikin, Morris J., Detroit, Mich. Tire-pump. No. 1,388,326; Aug. 23; v. 289; p. 650.
- Chain Belt Co. (See Follinger, Herbert C., assignor.)
- Chain Belt Company. (See Bethke, Leo, assignor.)
- Chain Belt Company. (See Singer, G. P., and Hickman, assignors.)
- Chain Roller Bearing Company. (See Brierley, Frank, assignor.)
- Chaitt, Jacob. (See Smiler, J. M., Segal, Chaitt, and Rudin.)
- Chaifant, William E., Glenside, assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Corrugating cylindrical bodies. No. 1,378,442; May 17; v. 286; p. 503.
- Chailer, Marc, Paris, France. Socket for tubular lamps. No. 1,389,740; Sept. 6; v. 290; p. 36.
- Challenge Cutlery Corporation. (See Primrose, William E., assignor.)
- Challenge Refrigerator Company. (See Hillman, Herbert H., assignor.)
- Challis, Philip, Kingswood, England. Piston-ring. No. 1,370,877; Mar. 8; v. 284; p. 259.
- Challis, Philip, London, England. Trunk-piston. No. 1,396,161; Nov. 8.
- Challis, Philip, London, England. Trunk-piston. No. 1,396,504; Nov. 8.
- Chalmers, John E., assignor to Union Special Machine Company, Chicago, Ill. Binder for sewing-machines. No. 1,393,498; Oct. 11.
- Chamberlain, Horace P., Buffalo, assignor to Standard Oil Company of New York, New York, N. Y. Obtaining motor-spirit and burning-oil from higher-boiling petroleum. No. 1,400,419; Dec. 13.
- Chamberlain, Perry, Troy, Pa. Canning-machine. No. 1,384,599; July 12; v. 288; p. 328.
- Chamberlain, Rowland L., Auburn, Calif. Ground-speed meter for aircraft. No. 1,385,776; July 26; v. 288; p. 726.
- Chamberlain, Rufus N., Chicago, Ill., assignor to Gould Storage Battery Co., Depew, N. Y. Acid-proof battery-container and making the same. No. 1,369,783; Mar. 1; v. 284; p. 6.
- Chamberlain, Rufus N., Chicago, Ill., assignor to Gould Storage Battery Company, Depew, N. Y. Plate for storage batteries and making same. No. 1,376,920; May 3; v. 286; p. 103.
- Chamberlain, Rufus N., Chicago, Ill., assignor to Gould Storage Battery Company. Storage-battery plate and making same. No. 1,379,900; May 31; v. 286; p. 926.
- Chamberlain, Rufus N., Chicago, Ill., assignor to Gould Storage Battery Co., Depew, N. Y. Safety device for storage batteries. No. 1,387,350; Aug. 9; v. 289; p. 348.
- Chamberlin, Frederick G., Norfolk, England. Legging. No. 1,367,860; Feb. 8; v. 283; p. 251.
- Chamberlin, Frederick G., Norfolk, England. Legging. No. 1,399,929; Dec. 13.
- Chamberlin, Guy B., Van Nuys, assignor of one-half to J. L. Hall, Hynes, Calif. Bean-harvester. No. 1,375,565; Apr. 19; v. 285; p. 525.
- Chamberlin, Lewis A., De Soto, Mo. Heel-fastening device. No. 1,375,897; Apr. 26; v. 285; p. 620.
- Chamberlin Metal Weather Strip. (See Glaser, Joseph P., assignor.)
- Chambers, Charles E., Asheville, N. C. Loom attachment. No. 1,395,904; Nov. 1.
- Chambers, Frank N., Davison, Mich. Cradle. No. 1,386,236; Aug. 2; v. 289; p. 55.
- Chambers, John A., Newburg, Mo. Mail-receiving device. No. 1,372,602; Mar. 22; v. 284; p. 710.
- Chambers, John E., assignor to Chambers Man'g Co., Shelbyville, Ind. Fireless cooker. No. 1,389,813; Sept. 6; v. 290; p. 51.
- Chambers Man'g Co. (See Chambers, John E., assignor.)
- Chambers, Samuel H. (See Wallace, Clyde K., assignor.)
- Chambless, James, assignor of one-half to A. Russell, Jasper, Ala. Steam-engine valve and reversing means therefor. No. 1,387,468; Aug. 16; v. 289; p. 421.
- Chambley, Alexander, Philadelphia, Pa. Combined socket and anchorage. No. 1,363,896; Feb. 15; v. 283; p. 498.
- Champagne, Thomas. (See MacIsaac, A. H., and Champagne.)
- Champeau, Lawrence X., Jersey City, N. J., assignor to Kirby, Champeau Co., Inc., New York, N. Y. Illuminating means. No. 1,364,866; Jan. 11; v. 282; p. 202.
- Champion, Albert, and A. Schmidt, assignors to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,375,079; Apr. 19; v. 285; p. 432.
- Champion Amusement Company, The. (See Strout, Noyes R., assignor.)
- Champion Blower & Forge Company. (See Keiper, Henry B., assignor.)
- Champion Engineering Co., The. (See Valls, Raphael W., assignor.)
- Champion Ignition Company. (See Champion, A., and Schmidt, assignors.)
- Champion Ignition Company. (See McDougal, Taine G., assignor.)
- Champion Ignition Company. (See Vessey, R. B., and Schmidt, assignors.)
- Champion Kerosene-Burner Company, The. (See Hill, Clarence A., assignor.)
- Champion Shoe Machinery Company. (See Bruninga, J. H., and Reiss, assignors.)
- Champion Shoe Machinery Company. (See Bruninga, John H., assignor.)
- Champion Shoe Machinery Company. (See Dobyne, George A. and S. A., assignors.)
- Champion Shoe Machinery Company. (See Dobyne, Stephen A., and J. C., assignors.)
- Champion Shoe Machinery Company. (See Dobyne, Stephen A., assignor.)
- Champlin, Alvin B., Tuckahoe, assignor of one-half to R. McWilliam, New York, N. Y. Air-blast sprayer. No. 1,396,319; Nov. 8.
- Champlin, Charles A., Hope, Ark. Valve. No. 1,375,566; Apr. 19; v. 285; p. 525.
- Champlin, Frank A. (See Moriarty, Daniel F., assignor.)
- Champlin, Ransom R., Candia, N. H. Carbon-remover. No. 1,372,639; Mar. 22; v. 284; p. 717.
- Champney, Ralph P., Worcester, assignor to Mitchell and Smith, Incorporated, Boston, Mass. Driving-belt. No. 1,394,967; Oct. 25.
- Champonnois, Paul L., Villiers-le-Sec, Creully, France. Motor-plow. No. 1,391,366; Sept. 20; v. 290; p. 518.
- Chance, Albert B., Centralia, Mo. Anchor-rod eye. No. 1,373,223; Mar. 29; v. 284; p. 875.
- Chance, Albert B., Centralia, Mo. Anchor. No. 1,384,825; July 19; v. 288; p. 455.
- Chance, Edwin M., Wilkes-Barre, and T. M. Chance, Philadelphia, Pa. Method and apparatus for the detection of combustible and vitiated atmospheres. No. 1,390,497; Sept. 13; v. 290; p. 279.
- Chance, Henry M., Philadelphia, Pa., and T. M. Chance, Baltimore, Md. Method and apparatus for classifying materials. No. 1,392,401; Oct. 4.
- Chance, Roy L., San Francisco, Calif. Lock-nut. No. 1,377,397; May 10; v. 286; p. 251.
- Chance, Thomas M. (See Chance, Edwin M. and T. M.)
- Chance, Thomas M. (See Chance, Henry M. and T. M.)
- Chance, Thomas M., Philadelphia, Pa. Method and apparatus for washing coal and concentrating ores and minerals. No. 1,392,399; Oct. 4.
- Chance, Thomas M., Philadelphia, Pa. Washing coal and concentrating ores and minerals. No. 1,392,400; Oct. 4.
- Chandlee, Franklin R., St. Joseph, Mo. Glazier's hammer. No. 1,390,498; Sept. 13; v. 290; p. 280.
- Chandler, Asa C., Houston, Tex. Treating wood. No. 1,388,513; Aug. 23; v. 289; p. 687.
- Chandler, Blida F., Chicago, Ill. Table-mat. No. 1,387,239; Aug. 9; v. 289; p. 323.
- Chandler, Charles H., Newport, R. I. Plating. No. 1,373,488; Apr. 5; v. 285; p. 22.
- Chandler, Daniel L., Fitchburg, assignor to Vend-Ads Co., Inc., Worcester, Mass. Soap tablet. No. 1,386,767; Aug. 9; v. 289; p. 231.
- Chandler, Edward F., Brooklyn, N. Y. Gyroscope. No. 1,370,285; Mar. 1; v. 284; p. 101.
- Chandler, Elbert E., Eagle Rock, Calif. Tractor or other automotive vehicle. No. 1,376,921; May 3; v. 286; p. 103.
- Chandler, Elbert G., Portland, Ore. Logging-truck. No. 1,380,315; May 31; v. 286; p. 1004.
- Chandler, Milford G., Chicago, assignor, by mesne assignments, to L. A. Williams, Evanston, and C. B. Camp, Chicago, Ill. Carbureter. No. 1,370,949; Mar. 8; v. 284; p. 272.
- Chandler, Milford G., Chicago, assignor, by mesne assignments, to L. A. Williams, Evanston, and C. B. Camp, Chicago, Ill., trustees. Carbureter. No. 1,372,740; Mar. 29; v. 284; p. 777.
- Chandler, Milford G., Chicago, assignor, by mesne assignments, to L. A. Williams, Evanston, and C. B. Camp, Chicago, Ill., trustees. Carbureter. No. 1,373,550; Apr. 5; v. 285; p. 33.
- Chandler, (Mrs.) Rebecca W. (See Blake, Archie, assignor.)
- Chandless, George E., Richmond Hill, N. Y. Christmas-tree holder. No. 1,364,864; Jan. 11; v. 282; p. 202.
- Chané, Maurice, Rouen, France. Method of and apparatus for the production of weft or cops on weft ring-spinning machines. No. 1,377,746; May 10; v. 286; p. 317.
- Chané, Maurice, Rouen, France. Apparatus for the production of weft spools or cops on weft ring-spinning machines. No. 1,377,747; May 10; v. 286; p. 317.
- Chaney, Benjamin F., Baltimore, Md. Transplanter. No. 1,368,486; Feb. 15; v. 283; p. 419.
- Chaney, Lee F., Springfield, Ohio, assignor to The Chaney Manufacturing Company. Scaling thermometer-tubes and the like. No. 1,391,878; Sept. 27; v. 290; p. 695.
- Chaney Manufacturing Company, The. (See Chaney, Lee F., assignor.)



*Alphabetical list of patentees—Continued.*

- Chaney, Reuben, Fort Worth, Tex. Valve-lifter. No. 1,375,627; Apr. 19; v. 285; p. 537.
- Chantler, Henry C. (See Hedrick, H. L., and Chantler.)
- Chapdelaine, Norbert, assignor, by mesne assignments, to A. A. Magee, Montreal, Quebec, Canada. Toy. (Re-issue.) No. 15,148; July 12; v. 288; p. 356.
- Chapdelaine, Norbert, assignor to A. A. Magee, Montreal, Quebec, Canada. Rocking tricycle. No. 1,396,505; Nov. 8.
- Chapel, Charles C. (See Rogers, E. W., and Chapel.)
- Chapel, Jesse J., Packwaukee, Wis. Fish-bait. No. 1,377,309; May 10; v. 286; p. 234.
- Chapin, Charles H. B., Englewood, N. J. Tray for electric heating appliances. No. 1,393,751; Oct. 18.
- Chapin, David S., Chicago, Ill. Apparatus for applying semifluid material. No. 1,399,849; Dec. 13.
- Chapin, John J., assignor, by mesne assignments, to Eli-Bac Screen Corporation, Rochester, N. Y. Rolling window-screen. No. 1,387,452; Aug. 16; v. 289; p. 418.
- Chapin & Hollister Co. (See Lewis, Frederick W., assignor.)
- Chapin, Roy D., *et al.* (See Hargreaves, Robert C., assignor.)
- Chapin, William A., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,380,039; May 31; v. 286; p. 953.
- Chapin, William R., Indianapolis, Ind. Welding compound. No. 1,387,351; Aug. 9; v. 289; p. 348.
- Chaplin-Fulton Manufacturing Company, The. (See Ralston, William S., assignor.)
- Chaplin, June L., Denver, Colo. Flexible joint for double switches. No. 1,373,802; Mar. 29; v. 284; p. 890.
- Chapman, Albert, assignor to The Eagle Claw Tire Boot Company, Kellogg, Idaho. Automobile-boot. No. 1,378,766; May 17; v. 286; p. 566.
- Chapman, Albert K., assignor to Eastman Kodak Company, Rochester, N. Y. Film-holder. No. 1,398,938; Nov. 29.
- Chapman, Charles E., assignor of one-half to J. Goodfellow, Fort Edward, N. Y. Method and apparatus for burning fuel-oils. No. 1,386,091; Aug. 2; v. 289; p. 26.
- Chapman Double Ball Bearing Company of Canada, The. (See Robinson, Harry W., assignor.)
- Chapman, Earle E., Los Angeles, Calif. assignor to Miller-Chapman Company. Weight-lifting device. No. 1,389,814; Sept. 6; v. 290; p. 51.
- Chapman, Edward H., Bethlehem, Pa. Automatic feed for an air-drill. No. 1,366,716; Jan. 25; v. 282; p. 643.
- Chapman Engineering Company. (See Climie, William, assignor. (Reissue.)
- Chapman, Frederick E., Middletown, Conn. Pipe-rest. No. 1,398,223; Nov. 29.
- Chapman, James. (See Isbister, J., and Chapman.)
- Chapman, John A., *et al.*, trustees. (See Sommer, William H., assignor.)
- Chapman, John W., *et al.* (See Spiker, Harry E., assignor.)
- Chapman Manufacturing Company. (See Andrews, Edward E., assignor.)
- Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Pumping apparatus. No. 1,385,069; July 19; v. 288; p. 506.
- Chapman, Nathan C., Detroit, Mich. Hydrocarbon-burner. No. 1,378,323; May 17; v. 286; p. 480.
- Chapman, Newman S., Eclectic, Ala. Spring-motor fan. No. 1,365,455; Jan. 11; v. 282; p. 316.
- Chapman, Penrose E., St. Louis, Mo. Unreeling and tension device. No. 1,396,728; Nov. 15.
- Chapman, William H., Portland, Me. Printing-press attachment. No. 1,394,064; Oct. 18.
- Chapman, William L., assignor to Merritt & Chapman Derrick & Wrecking Company, New York, N. Y. Pipe-laying apparatus. No. 1,393,943; Oct. 18.
- Chapman, William M., Hartford City, Ind. Mail-box. No. 1,393,944; Oct. 18.
- Chappell, Arthur E., Chicago, Ill. Surfacing-machine. No. 1,389,125; Aug. 30; v. 289; p. 862.
- Chappell, Frank L., Cleveland, Ohio. Roof-ladder fire-escape. No. 1,389,096; Aug. 30; v. 289; p. 856.
- Chappell, Fred B., assignor of one-half to Glens Falls Machine Works, Glens Falls, N. Y. Feeding device for sulfur-burners. No. 1,370,627; Mar. 8; v. 284; p. 211.
- Chappell, Fred B., assignor of one-half to Glens Falls Machine Works, Glens Falls, N. Y. Ventilating sleeve for sulfur-burners. No. 1,371,223; Mar. 15; v. 284; p. 387.
- Chappell, Fred B., assignor of one-half to Glens Falls Machine Works, Glens Falls, N. Y. Combustion-chamber for sulfur-burners. No. 1,382,343; June 21; v. 287; p. 494.
- Chappell, Howard F., New York, N. Y. Drying finely-divided materials. No. 1,375,080; Apr. 19; v. 285; p. 433.
- Chappell, Howard F., New York, N. Y. Calcining alunite. No. 1,401,136; Dec. 27.
- Chappell, Howard F., New York, N. Y. Calcining alunite. No. 1,401,137; Dec. 27.
- Chappell, Walter H. (See Lankford, W. J., and Chappell.)
- Chappelle, Charles C., New York, N. Y. Gas-heater. No. 1,388,238; Aug. 23; v. 289; p. 631.
- Chapple, Charles E., assignor to Doehler Die Casting Company, Brooklyn, N. Y. Casting apparatus. No. 1,385,201; July 19; v. 288; p. 533.
- Charbonneau, Arthur A., Montreal, Quebec, Canada. Cigar-mold. No. 1,393,087; Oct. 11.
- Chard, Lodge Y., Newcastle, Ind. Low-pressure signal for automobile-tires. No. 1,397,619; Nov. 22.
- Charen, Myer, Philadelphia, Pa. Apparatus for manufacturing pinless teeth. No. 1,364,480; Jan. 4; v. 282; p. 84.
- Charles, Edward S., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Lever mechanism for clutches. No. 1,373,410; Apr. 5; v. 285; p. 6.
- Charles, Henry L., New York, N. Y. Furnace. No. 1,394,470; Oct. 18.
- Charles, Henry L., New York, N. Y. Ore-smelting furnace. No. 1,394,471; Oct. 18.
- Charles, Henry L., New York, N. Y. Smelting of ores. No. 1,394,472; Oct. 18.
- Charles, Henry L., New York, N. Y. Ore-smelting furnace. No. 1,394,473; Oct. 18.
- Charles, Henry L., New York, N. Y. Ore-smelting furnace. No. 1,394,474; Oct. 18.
- Charles, Louis A., Levallois-Perret, France. Injector for internal-combustion engines. No. 1,400,264; Dec. 13.
- Charles, Manuel, Mexico, Mexico. Advertising device. No. 1,371,860; Mar. 15; v. 284; p. 511.
- Charles, Manuel, Mexico, Mex. Typewriter. No. 1,381,798; June 14; v. 287; p. 332.
- Charles, Seward, Washington, D. C. Reinforced concrete structure. No. 1,382,060; June 21; v. 287; p. 441.
- Charleson, Donald, Chicago, assignor to B. T. Roodhouse, Wilmette, and E. K. Lundy, Jr., Winnetka, Ill. Coin-controlled vending-machine. No. 1,365,377; Jan. 11; v. 282; p. 300.
- Charis, George H., Canton, Ohio. Rust-resisting alloy of iron. (Reissue.) No. 15,208; Oct. 18.
- Charlton, George, assignor of one-third to E. Carter and one-third to F. Ibbotson, Detroit, Mich. Stippler. No. 1,369,163; Feb. 22; v. 283; p. 589.
- Charlton, Harry W., Jones Point, N. Y., assignor to American Potash Corporation. Hydrate of lime. No. 1,381,106; June 14; v. 287; p. 202.
- Charlton, Harry W., New York, N. Y., assignor to American Potash Corporation. Reducing sludge to powder. No. 1,397,078; Nov. 15.
- Charlton, Robert W., Pineville, assignor of one-half to H. H. Jordan, Rapides parish, La. Sound-reproducer. No. 1,378,835; May 24; v. 286; p. 651.
- Charlton, Robert W., Pineville, assignor of one-half to H. Mairus, Rapides parish, La. Auger. No. 1,389,578; Sept. 6; v. 290; p. 4.
- Charlton, Thomas, Chicago, Ill. Apparatus for separating materials of different specific gravity. No. 1,365,815; Jan. 18; v. 282; p. 425.
- Charnoph, Charles, Omaha, Nebr. Fruit-picker. No. 1,390,760; Sept. 13; v. 290; p. 333.
- Charter, James A., Chicago, Ill. Gas-engine. No. 1,366,445; Jan. 25; v. 282; p. 592.
- Charter, James A., Chicago, Ill. Gas-engine. No. 1,396,506; Nov. 8.
- Charters, Ernest D., assignor to Charters Manufacturing Co., Santa Cruz, Calif. Temperature-regulating device for incubators and brooders. No. 1,386,990; Aug. 9; v. 289; p. 276.
- Charters, Ernest D., assignor to Charters Manufacturing Co., Santa Cruz, Calif. Incubator. (Reissue.) No. 15,247; Dec. 20.
- Charters Manufacturing Co. (See Charters, Ernest D., assignor.) (Reissue.)
- Charters Manufacturing Co. (See Weeks, Charles, assignor.)
- Chartier, Noel B., Providence, R. I. Comb-cleaning device. No. 1,377,310; May 10; v. 286; p. 284.
- Charushin, Vladimir, *et al.* (See Fickett, E. L., and Charushin.)
- Chase, Cassius S. (See McLaughlin, William H., assignor.)
- Chase, Clarence C., Buda, Ill. Engine-lifter. No. 1,401,138; Dec. 27.
- Chase Companies Inc., The. (See Crane, Arthur T., as signor.)
- Chase Companies, The. (See Grierson, William R., assignor.)
- Chase Companies, The. (See Recker, Adolph C., assignor.)
- Chase Companies, The. (See Wellington, Arthur W., assignor.)
- Chase, Edwin R., Sacramento, Calif. Umbrella. No. 1,397,794; Nov. 22.
- Chase, Elijah M., Cheyenne, Wyo. Releasing device for motion-picture-film reels. No. 1,386,839; Aug. 9; v. 289; p. 246.
- Chase, Elijah M., Cheyenne, Wyo. Retainer for motion-picture-film reels. No. 1,392,910; Oct. 11.
- Chase, Elroy A., Northfield, Vt. Chuck. No. 1,375,777; Apr. 26; v. 285; p. 597.
- Chase, Henry A., Boston, Mass. Grinding apparatus and clutch therefor. No. 1,372,277; Mar. 22; v. 284; p. 648.
- Chase, Herschel E., assignor to United States Hoffman Machinery Company, Syracuse, N. Y. Garment-press. No. 1,395,667; Nov. 1.
- Chase, J. M. (See Slater, Jasper P., assignor.)
- Chase, L. C., & Company. (See Vestine, Andrew O., as signor.)



*Alphabetical list of patentees—Continued.*

- Chase, Philip H., Cynwyd, Pa. Cable and making the same. No. 1,370,731; Mar. 8; v. 284; p. 231.
- Chase, Philip H., East Orange, N. J. Electric switch. No. 1,387,686; Aug. 16; v. 289; p. 466.
- Chase-Shawmut Company, The. (See Conant, Franklin N., assignor.)
- Chase, Sidney M., Minneapolis, Minn. Reinforcing-tube for boring-tools. No. 1,386,687; Aug. 9; v. 289; p. 215.
- Chase, Wilfred O., Detroit, Mich. Carbureter. No. 1,394,536; Oct. 25.
- Chase, William F., Peekskill, N. Y. Machine for making glass beads. No. 1,391,527; Sept. 20; v. 290; p. 551.
- Chase, William P. (See Steinkraus, Henry F., assignor.)
- Chason, Daniel H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Machine-stand. No. 1,364,350; Jan. 4; v. 282; p. 59.
- Chason, Daniel H., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Caster. No. 1,364,351; Jan. 4; v. 282; p. 59.
- Chat, Frank J., assignor to H. R. Gibbons, Chicago, Ill. Bed-elevating device. No. 1,378,096; May 17; v. 286; p. 437.
- Chatain, Henri G., assignor to General Electric Company, Erie, Pa. Combustion-chamber. No. 1,376,003; Apr. 26; v. 285; p. 640.
- Chateaufort, Frank, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Wax-thread sewing-machine. No. 1,377,311; May 10; v. 286; p. 234.
- Chateaufort, Frank, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,377,312; May 10; v. 286; p. 235.
- Chateaufort, Frank, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-sewing machine. No. 1,377,313; May 10; v. 286; p. 235.
- Chattfield, George R., Glen Ridge, N. J. Shortening composition and making same. No. 1,368,022; Feb. 8; v. 283; p. 280.
- Chattillon, John, & Sons. (See Stevens, Frederick M., assignor.)
- Chattstrom, E. Anders, Davenport, Iowa. Ditching-machine. No. 1,374,488; Apr. 12; v. 285; p. 256.
- Chaudet, Felix R., St. Louis, Mo. Vehicle-spring. No. 1,393,088; Oct. 11.
- Chaudière, Etienne, Paris, France. Vertical kiln. No. 1,390,884; Sept. 13; v. 290; p. 358.
- Chauncey, Albert B., Revere, Mass. Tie. No. 1,373,949; Apr. 5; v. 285; p. 111.
- Chaussinand, Paul L. F. H., St. Dizier, France. Massaging apparatus. No. 1,387,687; Aug. 16; v. 289; p. 466.
- Chauvette, Victor E. L., Paris, France. Printing-machine. No. 1,398,360; Nov. 29.
- Chaviara, John N. (See Gill, J. F., and Chaviara.)
- Chayes, Herman E. S., New York, N. Y. Dental bridge-work. No. 1,366,058; Jan. 18; v. 282; p. 473.
- Chayes, Herman E. S., New York, N. Y. Dental attachment. No. 1,380,040; May 31; v. 286; p. 953.
- Cheak, Amy L., Waddy, Ky. Soap-dish. No. 1,380,288; May 31; v. 286; p. 999.
- Ceatham, Raymond L., Richmond, Va. Automobile-brush. No. 1,392,623; Oct. 4.
- Chebotaief, Leo F., Wappingers Falls, N. Y., assignor, by mesne assignments, to National Aniline & Chemical Company, Inc. Manufacture of naphthols. No. 1,381,280; June 14; v. 287; p. 234.
- Cheesman, Mary J., New York, N. Y. Tea-cart. No. 1,370,517; Mar. 8; v. 284; p. 189.
- Cheevers, Thomas P., Detroit, Mich. Arm-fitting. No. 1,384,826; July 19; v. 288; p. 455.
- Chefer, John, Chester, Pa. Telephone-mouthpiece. No. 1,375,209; Apr. 19; v. 285; p. 457.
- Chekenian, Harootun. (See Ohanian, Garabed, assignor.)
- Chellberg, Walter F., Chicago, Ill. Portable boring-bar. No. 1,391,045; Sept. 20; v. 290; p. 453.
- Chelius, George B., Bayonne, N. J. Bottle-filling machine. No. 1,379,249; May 24; v. 286; p. 729.
- Chellis, Norman D., Erie, Pa. Machine and method for introducing tubes into tire-cases. No. 1,379,169; May 24; v. 286; p. 714.
- Chelstrom, Gust V., Minneapolis, Minn. Indicating caliper attachment. No. 1,382,061; June 21; v. 287; p. 441.
- Chemical Construction Company. (See Forbis, Rufus E., assignor.)
- Chemical Equipment Company. (See La Bour, Harry E., assignor.)
- Chemical Foundation, The. (See Bennett, Carl, assignor.)
- Chemical Foundation, The. (See Bergius, Friedrich, assignor.)
- Chemical Foundation, The. (See Bosch, C., Mittasch, and Beck, assignors.)
- Chemical Foundation, The. (See Bosch, C., Schmidt, and Mittasch, assignors.)
- Chemical Foundation, The. (See Bosch, Carl, assignor.)
- Chemical Foundation, The. (See Buchner, Max, assignor.)
- Chemical Foundation Inc., The. (See Daniel, Arnold, assignor.)
- Chemical Foundation, Inc., The. (See Faitelowitz, Arnold, assignor.)
- Chemical Foundation, The. (See Graf, Carl, assignor.)
- Chemical Foundation Inc. (See Graf de la Rosée, Friedrich, assignor.)
- Chemical Foundation, The. (See Herzfeld, Alexander, assignor.)
- Chemical Foundation, The. (See Jagenberg, Emil, assignor.)
- Chemical Foundation, The. (See Kanet, Emil, assignor.)
- Chemical Foundation, The. (See Lewenstein, K. Prinz Zu, and Hauff, assignors.)
- Chemical Foundation, The. (See Lilienfeld, Leon, assignor.)
- Chemical Foundation, The. (See Linz, Arthur, assignor.)
- Chemical Foundation, The. (See Lobeck, Oskar, assignor.)
- Chemical Foundation, The. (See Minck, Paul H., assignor.)
- Chemical Foundation, The. (See Mengelbier, Oscar, assignor.)
- Chemical Foundation, Inc., The. (See Moeller, Willy, assignor.)
- Chemical Foundation, The. (See Ostwald, Walter, assignor.)
- Chemical Foundation, The. (See Pfeumer, Fritz, and H., assignors.)
- Chemical Foundation, The. (See Pole, Joseph C., assignor.)
- Chemical Foundation, The. (See Pollak, Fritz, assignor.)
- Chemical Foundation, The. (See Priem, Friedrich P., assignor.)
- Chemical Foundation, The. (See Riesenfeld, Ernest H., assignor.)
- Chemical Foundation, The. (See Römer, Adolf, assignor.)
- Chemical Foundation, The. (See Schröder, Edmund, assignor.)
- Chemical Foundation, The. (See Talla, Heinrich, assignor.)
- Chemical Foundation, The. (See Tambach, Rudolf, assignor.)
- Chemical Foundation, The. (See Tscheike, Fritz, assignor.)
- Chemical Foundation, The. (See Ulrich, Georg, assignor.)
- Chemical Foundation, The. (See Wenzel, Max, assignor.)
- Chemical Foundation, The. (See Weyer, Fritz, assignor.)
- Chemical Foundation, The. (See Zimmer, Carl L. V., assignor.)
- Chemical Foundation, Inc., The. (See Buchner, Max, assignor.)
- Chemical Foundation, Inc., The. (See Kohnert, Alfred, assignor.)
- Chemical Foundation, Inc., The. (See Kuppers, Karl, assignor.)
- Chemical Foundation, Inc., The. (See Türk, Gustav, assignor.)
- Chemical Foundation, Inc., The. (See Walter, Richard, assignor.)
- Chemical Foundation, Inc., The. (See Wierusz-Kowalski, Mieczyslaw v., assignor.)
- Chemical Foundation, Inc., The. (See Zuelzer, Georg, assignor.)
- Chemical Fuel Company of America. (See Stevens, Elbridge W., assignor.)
- Chemical Machinery Corporation. (See Field, Crosby, assignor.)
- Chemical Works formerly Sandoz. (See Stoll, Arthur, assignor.)
- Chemische Fabrik Griesheim-Elektron. (See Pistor, G., Beielstein, and Beck, assignors.)
- Chenery, Charles R., Buffalo, N. Y. Refrigerator-door latch. No. 1,381,799; June 14; v. 287; p. 332.
- Chenery, William H., Montreal, Quebec, Canada. Detachable footwear-irrad. No. 1,399,542; Dec. 6.
- Chenette, Frank A., Worcester, Mass. Sharpening device. No. 1,368,218; Feb. 8; v. 283; p. 318.
- Chenette, Gene D., Ames, Iowa. Wrench. No. 1,369,784; Mar. 1; v. 284; p. 6.
- Cheney, Ansel J., Beverly, Mass. Dustproof connection for hot-air-furnace pipes. No. 1,399,748; Dec. 13.
- Cheney Brothers. (See Busby, Hibbard S., assignor.)
- Cheney, Forest, assignor to Cheney Talking Machine Co., Chicago, Ill. Lever-counterbalance. No. 1,387,833; Aug. 16; v. 289; p. 496.
- Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Needle-adjusting means. No. 1,390,499; Sept. 13; v. 290; p. 280.
- Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Sound-reproducing machine. No. 1,395,092; Oct. 25.
- Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Sound-reproducing machine. No. 1,395,093; Oct. 25.
- Cheney, Fred D., Gypsum, Kans. Storage-battery electrolyte. No. 1,385,305; July 19; v. 288; p. 553.
- Cheney, Fred D., Gypsum, Kans. Intensifier. No. 1,390,020; Sept. 6; v. 290; p. 93.
- Cheney, George V., North Kennebunkport, Me. Differential gearing for roving, spinning, or similar machines. No. 1,368,114; Feb. 8; v. 283; p. 298.
- Cheney, Herbert W., Milwaukee, Wis. Metering-motor. No. 1,392,115; Sept. 27; v. 290; p. 743.
- Cheney, Herbert W., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Motor-driven compressor. No. 1,374,906; Apr. 19; v. 285; p. 399.
- Cheney, Moses E. (See Blodgett, G. R., Cheney, and Hurley.)
- Cheney Talking Machine Company. (See Cheney, Forest, assignor.)



*Alphabetical list of patentees—Continued.*

- Cheney Talking Machine Company. (See Doerr, Fred H., assignor.)
- Chennells, William B. (See Burrell, W. C., and Bellingham, assignors.)
- Chenot, William E., Belleville, Ill. Motor-fuel supply and blending and engine-starting means. No. 1,364,712; Jan. 4; v. 282; p. 128.
- Chenot, William E., Belleville, Ill. Apparatus for making motor-fuels. No. 1,385,860; July 26; v. 288; p. 743.
- Cherba, George, Jeddo, Pa. Stone-picker. No. 1,374,489; Apr. 12; v. 285; p. 256.
- Cherington, George T., Waukegan, Ill. Drive for phonograph-governors. No. 1,365,378; Jan. 11; v. 282; p. 301.
- Cherington, George T., Waukegan, Ill. Frame for phonograph-motors. No. 1,391,717; Sept. 27; v. 290; p. 663.
- Chermak, Frank P., Minneapolis, Minn. Vegetable-topping machine. No. 1,364,713; Jan. 4; v. 282; p. 128.
- Chern, Jacob. (See Chern, Ralph and J.)
- Chern, Ralph and J., Philadelphia, Pa. Embroidery-needle. No. 1,364,352; Jan. 4; v. 282; p. 59.
- Cherniavsky, Abraham, Los Angeles, Calif. Attachment for stringed instruments. No. 1,394,407; Oct. 18.
- Cherry, Edward A., Brooklyn, N. Y. assignor, by mesne assignments, to Stanley Works, New Britain, Conn. Tool for forming round dowels and rods. No. 1,367,462; Feb. 1; v. 283; p. 115.
- Cherry, J. G., Company. (See Van Kuren, Stephen J., assignor.)
- Chertoff, George J., Cleveland, Ohio. Rubber-compounding mixture. No. 1,379,743; May 31; v. 286; p. 897.
- Chervin, Solomon, San Francisco, Calif. Combined wash-bub and sink. No. 1,370,088; Mar. 1; v. 284; p. 63.
- Chesney, John. (See Davidson, T. M., and Chesney.)
- Chesnutt, John L., Long Beach, Calif. Swivel-caster. No. 1,392,911; Oct. 11.
- Chesnutt, John L., Long Beach, Calif. Ball-bearing string-proof wheel. No. 1,392,912; Oct. 11.
- Chesnutt, John L., Long Beach, Calif. Swivel-caster. No. 1,392,913; Oct. 11.
- Chesnutt, John L., Long Beach, Calif. Swivel-caster. No. 1,392,914; Oct. 11.
- Chesnutt, John L., assignor to The Service Caster & Truck Company, Kansas City, Mo. Combination roller and ball bearing wheel. No. 1,386,160; Aug. 2; v. 289; p. 39.
- Chesnutt, Owen L., Atlanta, Ga. Safety-trolley. No. 1,390,885; Sept. 13; v. 290; p. 358.
- Chesnutt, Selbert W., Kansas City, Mo. Swivel-caster. No. 1,367,301; Feb. 1; v. 283; p. 83.
- Chester, Frank R., Ashbury Park, N. J. Amusement apparatus. No. 1,368,115; Feb. 8; v. 283; p. 298.
- Chester, Frank R., Ashbury Park, N. J. Amusement apparatus. No. 1,394,277; Oct. 18.
- Chester Novelty Company. (See Olsen, John C., assignor.)
- Chester, Oliver W. J., Glenmaggle, Gippsland, Victoria, Australia. Strap-holder, belt-fastener, and the like. No. 1,391,879; Sept. 27; v. 290; p. 695.
- Chestnut, Charles E., and W. A. Henderson, Calgary, Alberta, Canada. Tube-cleaner. No. 1,379,852; May 31; v. 286; p. 917.
- Chestnut, Victor K. (See Power, F. B., and Chestnut.)
- Cheston, Arthur S., London, England. Folding or collapsible head or hood of vehicles. No. 1,391,369; Sept. 20; v. 290; p. 519.
- Chevalier, Mary F., Baldwin Park, Calif. Bath-spray. No. 1,374,430; Apr. 12; v. 285; p. 245.
- Chewning, Eugene F., assignor of one-half to W. G. Fields, San Dimas, Calif. Implement for making irrigating-channels. No. 1,397,722; Nov. 22.
- Chicago Bearings Company. (See Winn, Charles A., assignor.)
- Chicago-Cleveland Car Roofing Company. (See Munro, Roy C., assignor.)
- Chicago-Cleveland Car Roofing Company. (See Russell, Thomas N., assignor.)
- Chicago Fuse Mfg. Co. (See McDonald, Clarence T., assignor.)
- Chicago Hardware Foundry Company. (See Cook, Fred W., assignor.)
- Chicago Lino-Tabler Company. (See Hollister, William C., assignor.)
- Chicago Machine & Motor Mfg. Co. (See Pearson, Carl F., assignor.)
- Chicago Malleable Castings Company. (See Osborn, Warren M., assignor.)
- Chicago Manufacturing Company. (See Radloff, E., and Stokes, assignors.)
- Chicago Novelty Co. (See Blessing, W., Howard, and Pexton, assignors.)
- Chicago Pneumatic Tool Company. (See Coates, Charles B., assignor.)
- Chicago Pneumatic Tool Company. (See Hoffman, Leon F., assignor.)
- Chicago Pneumatic Tool Company. (See Kimman, Henry J., assignor.)
- Chicago Pneumatic Tool Company. (See Noakes, Robert J., assignor.)
- Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)
- Chicago Railway Equipment Company. (See Hawkins, Arthur W., assignor.)
- Chicago Railway Equipment Company. (See Williams, Charles H., assignor.)
- Chicago Railway Signal and Supply Company. (See McCarthy, Daniel J., assignor.)
- Chicago Standard Metallic Packing Company. (See Badeker, John, assignor.)
- Chicago Surgical & Electrical Company. (See Lidberg, Tidolf, assignor.)
- Chicken, Christopher B., and G. Scott, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Variable-speed gearing. No. 1,398,417; Nov. 29.
- Chicoine, Louis P., Vaudreuil, Quebec, Canada. Track-liner bar. No. 1,387,688; Aug. 16; v. 289; p. 466.
- Chicoine, Louis P., Vaudreuil, Quebec, Canada. Track-spike. No. 1,387,689; Aug. 16; v. 289; p. 466.
- Chicoine, Louis P., Vaudreuil, Quebec, Canada. Track-clearing equipment. No. 1,396,355; Nov. 8.
- Child, Guy B., Chicago, Ill., assignor to American Stove Company, St. Louis, Mo. Combined gas and wood and coal-range. No. 1,396,623; Nov. 8.
- Childers, Henry H., Louisville, Ky. Screening device. No. 1,380,289; May 31; v. 286; p. 1000.
- Childers, Thomas, Zeigler, Ill. Self-latching gate. No. 1,374,878; Apr. 12; v. 285; p. 331.
- Childers, Walter M., assignor of one-half to H. S. McGinness, Pittsburgh, Pa. Bag-closure. No. 1,368,545; Feb. 15; v. 283; p. 431.
- Childress, Henderson P., Memphis, Tenn. Bale-buckle. No. 1,366,357; Jan. 25; v. 282; p. 574.
- Childs, Albert T., Pittsfield, Mass., assignor to General Electric Company. Temperature-indicator for transformers and the like. No. 1,379,526; May 24; v. 286; p. 782.
- Childs, Clarence E., San Diego, Calif. Mirrorscopes. No. 1,399,461; Dec. 6.
- Childs, Elmer N., Yale, Iowa. Adjustable tongue attachment for vehicle-hounds. No. 1,377,314; May 10; v. 286; p. 235.
- Childs, William. (See Bradley, Thomas, assignor.)
- Chile Exploration Company. (See Fink, Colin G., assignor.)
- Chiles, George J. (See Schuyler, W. H., and Chiles.)
- Chilowsky, Constantin, Paris, France. Projectile. No. 1,376,316; Apr. 26; v. 285; p. 701.
- Chilton, Roland, Freehold, N. J. Method and apparatus for testing universal joints. No. 1,379,961; May 31; v. 286; p. 938.
- Chilton, Roland, Keyport, N. J. Method and apparatus for forming spring-couplings. No. 1,379,963; May 31; v. 286; p. 938.
- Chilton, Roland, Keyport, N. J. Universal joint. No. 1,379,964; May 31; v. 286; p. 939.
- Chilton, Roland, Matawan, N. J. Universal joint. No. 1,379,965; May 31; v. 286; p. 939.
- Chilton, William, assignor of one-half to The Brush Electrical Engineering Company, Limited, Loughborough, England. Turbine. No. 1,400,799; Dec. 20.
- Chimlques de Thann et de Mulhouse, Rue de la Merzeau, Mulhausen, Alsace, France. Manufacture of potassium sulfate. No. 1,389,861; Sept. 6; v. 290; p. 61.
- Chinn, Joseph L., West Huntington, W. Va. Merry-go-round. No. 1,395,175; Oct. 25.
- Chipperfield, Walter, Romford, England. Drawer-locking mechanism. No. 1,370,089; Mar. 1; v. 284; p. 63.
- Chipperfield, Walter, Romford, England. Construction of metal cases for containing drawers, shelves, or the like. No. 1,401,041; Dec. 20.
- Chipperfield, Walter, Hornchurch, England, assignor to A. B. Dick Company, Chicago, Ill. Type-composing machine. No. 1,367,302; Feb. 1; v. 283; p. 83.
- Chipperfield, Walter, Hornchurch, England, assignor to A. B. Dick Company, Chicago, Ill. Manually-operated type-composing machine. No. 1,368,784; Feb. 15; v. 283; p. 477.
- Chipperfield, Walter, Hornchurch, England, assignor to A. B. Dick Company, Chicago, Ill. Type-composing machine. No. 1,369,914; Mar. 1; v. 284; p. 30.
- Chipperfield, Walter, Hornchurch, England, assignor to A. B. Dick Company, Chicago, Ill. Inking device for duplicating-machines. No. 1,387,764; Aug. 16; v. 289; p. 482.
- Chippewa Foundry and Machine Company. (See Johnson, Gustav W., assignor.)
- Chippindale, William E. G., Kincardine, Ontario, Canada. Combination-stove. No. 1,369,758; Feb. 22; v. 283; p. 706.
- Chippis, William A., Los Angeles, Calif. Dual-wheel remover. No. 1,378,582; May 17; v. 286; p. 529.
- Chirpe, William, and C. H. Lundgren, Chicago, Ill.; said Lundgren assignor to said Chirpe. Non-skid-chain device. No. 1,364,714; Jan. 4; v. 282; p. 129.
- Chisholm, Alexander E., Seattle, Wash. Diving apparatus. No. 1,367,587; Feb. 8; v. 283; p. 198.
- Chisholm, Charles, St. Cloud, Minn. Hook and eye. No. 1,391,613; Sept. 20; v. 290; p. 568.
- Chisholm, Daniel G., Seattle, Wash. Heating device for internal-combustion engines. No. 1,374,280; Apr. 12; v. 285; p. 215.
- Chisholm, Douglas W., Garmkirk, Scotland. Manufacture of welded iron and steel tubes. No. 1,370,187; Mar. 1; v. 284; p. 82.



## Alphabetical list of patentees—Continued.

- Chisholm, Douglas W., Woodhead, Garnkirk, Scotland. Apparatus for the manufacture of welded tubes. No. 1,380,356; June 7; v. 287; p. 6.
- Chisholm-Moore Manufacturing Company, The. (See Remsburg, Arthur S., assignor.)
- Chittenden, Foree. (See Wiet, E. and Chittenden.)
- Chitwood, R. H. (See Wood, John, assignor.)
- Chizek, George. (See Kapinos, F., and Chizek.)
- Chmielewski, Peter W., Chicago, Ill. Table. No. 1,375,488; Apr. 19; v. 285; p. 510.
- Chmurski, Anton J., assignor of one-half to Frank Regis, Milwaukee, Wis. Fare-box. No. 1,373,798; Apr. 5; v. 285; p. 81.
- Chmurski, Anton J., assignor to F. Rigas, Milwaukee, Wis. Automobile lighting device. No. 1,395,039; Oct. 25.
- Choate, William E., Hamilton, Mass., assignor, by mesne assignments, to Federal Finance Corporation. Work and material holder for stamping-machines. No. 1,395,555; Nov. 1.
- Chodsko, Adam E., San Francisco, Calif. Pneumatic pumping apparatus. No. 1,372,994; Mar. 29; v. 284; p. 829.
- Choinski, Walter, Milwaukee, Wis. Attachment for bowling-alley return-troughs. No. 1,388,239; Aug. 23; v. 289; p. 632.
- Choinski, Walter, Milwaukee, Wis. Toy. No. 1,388,240; Aug. 23; v. 289; p. 632.
- Chojmick, Joseph, Whiting, Ind. Gymnastic toy. No. 1,394,065; Oct. 18.
- Cholick, Joseph J., Rio Hondo, Tex. Attachment for tractors. No. 1,389,488; Aug. 30; v. 289; p. 934.
- Choniet, Louis, Paris, France. Sound signaling device. No. 1,391,367; Sept. 20; v. 290; p. 519.
- Chonkich, Michael. (See Goddard, James E., assignor.)
- Chopin, Alberic L., Paris, France. Universal coal-cutting machine. No. 1,384,236; July 12; v. 288; p. 250.
- Chopin, Marcel, assignor to himself and La Societa Anonyme des Grands Moulins de Vilgrain, Nancy, France. Automatic indicator of the proportion of moisture. No. 1,392,116; Sept. 27; v. 290; p. 743.
- Choquet, Arthur J., New York, N. Y., assignor, by mesne assignments, to A. M. Deutsch, Queens county, N. Y. Neckband-fastening means for collars. No. 1,379,527; May 24; v. 286; p. 782.
- Chowdrow, Jacob, Buffalo, N. Y. Bell-ringer resistance unit. No. 1,397,888; Nov. 22.
- Chrisman, Charles S., West Chester, Pa. Chamber-head. No. 1,374,490; Apr. 12; v. 285; p. 256.
- Chrisman, Charles S., West Chester, assignor to The U. G. I. Contracting Company, Philadelphia, Pa. Gas-apparatus valve or closure mechanism. No. 1,368,229; Feb. 8; v. 283; p. 321.
- Chrisman, Horace, Edgewood Park, assignor to Pittsburgh Meter Company, East Pittsburgh, Pa. Fluid-meter. No. 1,400,523; Dec. 20.
- Christen, Victor H., Toledo, Ohio. U-clip for windshield-wipers. No. 1,369,008; Feb. 22; v. 283; p. 559.
- Christensen, Assuld, Stockton, Calif. Device for saving precious metals. No. 1,371,409; Mar. 15; v. 284; p. 424.
- Christensen, Carl C. (See Mable, William, assignor.)
- Christensen, Carl V. J., et al., executors. (See Wardwell, Simon W.)
- Christensen, Christen, assignor to Electrical Engineers Equipment Co., Chicago, Ill. Disconnecting-switch. No. 1,394,968; Oct. 25.
- Christensen, Claus P., assignor of one-half to H. P. Vogensen, Petaluma, Calif. Electric driving pump-jack. No. 1,401,042; Dec. 20.
- Christensen, Edna M., Winner, S. D. Receptacle for crochet-thread and the like. No. 1,390,982; Sept. 20; v. 290; p. 440.
- Christensen, Hans, Spokane, Wash. Combined churn and butter worker. No. 1,367,732; Feb. 8; v. 283; p. 226.
- Christensen, Hans, Chicago, Ill. Earth-pulverizing machine. No. 1,391,614; Sept. 20; v. 290; p. 568.
- Christensen, Jens C., Penn Yan, N. Y. Implement-support. No. 1,388,799; Aug. 23; v. 289; p. 742.
- Christensen, Jens H., Holte, Denmark. Method and apparatus for producing colored photographic pictures. No. 1,373,053; Mar. 29; v. 284; p. 840.
- Christensen, John L., Chicago, Ill. Wrapper. No. 1,381,904; June 21; v. 287; p. 412.
- Christensen, Jørgen A. F., Odense, Denmark. Device for joining concrete blocks disposed in a pillar or in series. No. 1,385,606; July 26; v. 288; p. 692.
- Christensen Machine Co. (See Christensen, Martin, assignor.)
- Christensen, Martin, assignor to Christensen Machine Co., Racine, Wis. Signature-feeding mechanism for book-stitching machines. No. 1,400,725; Dec. 20.
- Christensen, Mogens C., assignor of one-half to Randolph F. Radebaugh, Tacoma, Wash. Gate-valve. No. 1,398,678; Nov. 29.
- Christensen, Niels A., Milwaukee, Wis. Propeller. No. 1,369,399; Feb. 22; v. 283; p. 635.
- Christensen, Niels A., Milwaukee, Wis. Motor-compressor. No. 1,369,618; Feb. 22; v. 283; p. 678.
- Christensen, Niels C., Salt Lake City, Utah. Treating lead-carbonate ores. No. 1,390,603; Sept. 13; v. 290; p. 302.
- Christensen, Nils, Boston, Mass. Headpiece for metallic piccolos. No. 1,376,004; Apr. 26; v. 285; p. 641.
- Christensen, Soren C., Magdalena, N. Mex. Pump-jack. No. 1,370,518; Mar. 8; v. 284; p. 189.
- Christensen, Thomas C. (See Smith, Alexander C., assignor.)
- Christenson, Edward. (See Miller, Andrew B., assignor.)
- Christenson, Ernst, Stockton, Kans. Gate-operating mechanism. No. 1,391,095; Sept. 20; v. 290; p. 463.
- Christenson, Oscar L., and K. I. M. Gisiko; said Gisiko assignor of his entire right to B. A. Hedman, Stockholm, Sweden. Producing ammonium chlorid. No. 1,397,264; Nov. 15.
- Christenson, Ralph L., Seattle, Wash. Securing means for window-stops. No. 1,377,748; May 10; v. 286; p. 318.
- Christern, Grover, New York, N. Y. Spark-plug. No. 1,400,525; Dec. 20.
- Christern, Grover, assignor to Eureka Spark Plug Corporation, New York, N. Y. Spark-plug. No. 1,400,524; Dec. 20.
- Christian, George L., Jr. (See Jenkins, Robert L., assignor.)
- Christian, Herbert W., Detroit, Mich. Electric water-heater. No. 1,367,463; Feb. 1; v. 283; p. 116.
- Christian, Herbert W., Detroit, Mich. Flexible water heater and dripper. No. 1,390,500; Sept. 13; v. 290; p. 280.
- Christian, Herbert W., Detroit, Mich. Electric water-heater. No. 1,400,526; Dec. 20.
- Christian, John, Cleveland, Ohio. Shoe-lace tip. No. 1,392,270; Sept. 27; v. 290; p. 774.
- Christian, John H. N., Montreal, Quebec, Canada. Support for bicycles. No. 1,371,736; Mar. 15; v. 284; p. 488.
- Christian, Walton G., Houston, Tex. Sample-taking device. No. 1,379,170; May 24; v. 286; p. 714.
- Christians, George W., Chattanooga, Tenn. Method of and means for agitating contents of receptacles. No. 1,366,874; Jan. 25; v. 282; p. 678.
- Christians, George W., Chattanooga, Tenn. Shock-absorber. No. 1,371,352; Mar. 15; v. 284; p. 412.
- Christian, Warren W. (See Miller, L. J., and Christian.)
- Christiansen, Christian, and E. Nording, Sioux Falls, S. D. Tractor-hitch. No. 1,382,062; June 21; v. 287; p. 441.
- Christiansen, Hersleb, Copenhagen, Denmark. Spring-suspension pivotal attachment for the wheels of motorcycle side cars. No. 1,364,715; Jan. 4; v. 282; p. 129.
- Christiansen, George, Omaha, Nebr. Buckle and wrist-strap. No. 1,390,761; Sept. 13; v. 290; p. 333.
- Christianson, Andrew, Butler, assignor to Standard Steel Car Company, Pittsburgh, Pa. Car-door-operating mechanism. No. 1,378,216; May 17; v. 286; p. 460.
- Christianson, Arnold, Detroit, Mich. Mill for rolling tapered disks. No. 1,399,333; Dec. 6.
- Christianson, Arnold, Detroit, Mich. Mill for rolling tapered disks. No. 1,399,334; Dec. 6.
- Christianson, Arnold, Detroit, Mich. Forming wheel-disks. No. 1,399,335; Dec. 6.
- Christianson, Christ T., Brooklyn, Md. Automobile-hood. No. 1,381,166; June 14; v. 287; p. 214.
- Christianson, Louis J. (See Schopf, M. F., and Christianson.)
- Christie, Alexander, Seattle, Wash. Pneumatic gun. No. 1,396,929; Nov. 15.
- Christie, Athelstan H., St. Louis, Mo. Handbags. No. 1,399,377; Dec. 6.
- Christie, Evi W., Seward, assignor to Wheeler Condenser and Engineering Company, Carteret, N. J. Condensing apparatus. No. 1,393,499; Oct. 11.
- Christie, Walter, Weehawken, N. J. Aerial-gun tractor. No. 1,394,066; Oct. 18.
- Christman, Charles. (See Moesmer, Frank O., assignor.)
- Christman, George L. (See Mahoney, J. N., and Christman.)
- Christman, Matthias, Springfield, Mo. Locking-valve. No. 1,365,379; Jan. 11; v. 282; p. 301.
- Christmas, Adolph F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Governor for steam-engines. No. 1,373,866; Apr. 5; v. 285; p. 95.
- Christmas, Adolph F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Vaporizer for internal-combustion engines. No. 1,384,686; July 12; v. 288; p. 346.
- Christoff, Jordan, Epsom, Auckland, New Zealand. Propeller for steamships. No. 1,372,402; Mar. 22; v. 284; p. 671.
- Christofferson, William. (See Samuelson, P. W., and Christofferson.)
- Christoph, Edward A. (See Christoph, Emil A., assignor.)
- Christoph, Edward A., Chicago, Ill. Lock. No. 1,384,179; July 12; v. 288; p. 240.
- Christoph, Emil A., assignor of one-half to E. A. Christoph, Chicago, Ill. Electric toaster. No. 1,393,427; Oct. 11.
- Christoph, George W., Warehousepoint, Conn. Exhauster. No. 1,401,583; Dec. 27.
- Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-feeding machine. No. 1,365,380; Jan. 11; v. 282; p. 301.
- Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-feeding machine. No. 1,382,952; June 28; v. 287; p. 664.
- Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-feeding machine. No. 1,385,666; July 26; v. 288; p. 704.



*Alphabetical list of patentees—Continued.*

- Christopher, Arthur B., St. Louis, Mo. Spark-intensifier. No. 1,380,947; June 7; v. 287; p. 119.
- Christopher, Calvin F., Canton, N. C. Churn-gearing. No. 1,369,164; Feb. 22; v. 283; p. 589.
- Christopher, Calvin F., Asheville, N. C. Combination computing and paper-roll machine. No. 1,381,541; June 14; v. 287; p. 283.
- Christopher, Calvin F., assignor to National Needle Company, Asheville, N. C. Turfing-needle. No. 1,368,605; Feb. 15; v. 283; p. 442.
- Christopher, George M. (See Spaulding, Franklin, assignor.)
- Christopher, Homer B., Henderson, Tenn. Continuous-rail crossing. No. 1,370,410; Mar. 1; v. 284; p. 124.
- Christopher, John E., Maryport, assignor to himself and T. H. Byrom, Brondesbury, England. Apparatus for the manufacture of gas. No. 1,367,512; Feb. 1; v. 283; p. 125.
- Christopher, William M., Tonawanda, N. Y. Clear-vision device for windshields. No. 1,396,729; Nov. 15.
- Christopherson, Alfred. (See Smith, K. D., and Christopherson.)
- Christopherson, Leo S., Spokane, Wash. Roller-bearing. No. 1,374,987; Apr. 19; v. 285; p. 414.
- Chrobak, Frank, Orient, Pa. Toilet article. No. 1,397,403; Nov. 15.
- Chrome Leather and Rubber Tire Company, The. (See Hahn, Samuel O., assignor.)
- Chronister, Frank L., Edmond, Okla. Taper grab. No. 1,389,859; Sept. 6; v. 290; p. 60.
- Chrysander, John A., New York, N. Y. Calendar. No. 1,375,567; Apr. 19; v. 285; p. 525.
- Chrysler, Edward E. (See Mariner, G. P., and Chrysler.)
- Chryst, William A. (See Kettering, C. F., and Chryst.)
- Chryst, William A., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Engine-starting system. No. 1,369,220; Feb. 22; v. 283; p. 600.
- Chryst, William A., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Engine-starting system. No. 1,386,316; Aug. 2; v. 289; p. 71.
- Chryst, William A., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,391,460; Sept. 20; v. 290; p. 537.
- Chryst, William A., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,401,313; Dec. 27.
- Chrzastek, Mike, Passaic, N. J. Cabbage-slicer. No. 1,398,257; Nov. 29.
- Chubb, Lewis W., Edgewood Park, and J. Slepian, Wilkesburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Constant-temperature device. No. 1,367,122; Feb. 1; v. 283; p. 48.
- Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting system. No. 1,370,004; Mar. 1; v. 284; p. 48.
- Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electro-percussive welding. No. 1,373,054; Mar. 29; v. 284; p. 240.
- Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,376,399; May 3; v. 286; p. 4.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for eliminating distorted harmonics from alternating-current generators. No. 1,376,400; May 3; v. 286; p. 5.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for suppressing harmonics. No. 1,387,469; Aug. 16; v. 289; p. 422.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical precipitating system. No. 1,389,126; Aug. 30; v. 289; p. 862.
- Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. No. 1,395,335; Nov. 1.
- Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical precipitating system. No. 1,396,811; Nov. 15.
- Chubb, Lewis W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical precipitating system. No. 1,399,422; Dec. 6.
- Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Emergency source of voltage. No. 1,401,671; Dec. 27.
- Chubb, Rowland N., Stockton, Calif. Radiant annunciator-sign. No. 1,371,470; Mar. 15; v. 284; p. 437.
- Church, Albert B., and J. P. Warren, San Francisco, Calif. Annotator. No. 1,377,749; May 10; v. 286; p. 318.
- Church, Clifford C., Boston, Mass. Child's vehicle. No. 1,364,612; Jan. 4; v. 282; p. 109.
- Church, Coleman A. (See Sieben, George S., assignor.)
- Church, Frederick B., Azusa, assignor to International Precipitation Company, Los Angeles, Calif. Process and apparatus for recovering metallic values from ores. No. 1,393,428; Oct. 11.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,369,915; Mar. 1; v. 284; p. 31.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,374,058; Apr. 5; v. 285; p. 132.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,374,059; Apr. 5; v. 285; p. 132.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,377,874; May 10; v. 286; p. 343.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,382,953; June 28; v. 287; p. 664.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,382,954; June 28; v. 287; p. 664.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,398,361; Nov. 29.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,401,043; Dec. 20.
- Church, Herbert E., Oneonta, N. Y. Combined shade-bracket and pole-support. No. 1,398,418; Nov. 29.
- Church, Louis M., Washington, D. C. Attachment for filing-cabinets. No. 1,369,884; Mar. 1; v. 284; p. 25.
- Church, Ralph D., Dallas, Tex. Cultivating-hoe. No. 1,387,127; Aug. 9; v. 289; p. 303.
- Church, Thomas L., Gilbert, Minn. Door-latch. No. 1,378,583; May 17; v. 286; p. 530.
- Church, Zala A., and W. E. Thomas, Jefferson, Iowa. Folding auto and camper's stove. No. 1,368,388; Feb. 15; v. 283; p. 399.
- Churchard, Alexander, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Electrical solenoid. No. 1,389,625; Sept. 6; v. 290; p. 13.
- Churchill, Adelbert E., Victoria, British Columbia, Canada. Manicure-tool. No. 1,364,075; Jan. 4; v. 282; p. 5.
- Churchill, Arthur L., et al. (See Carson, James, assignor.)
- Churchill, Harold E., Detroit, Mich. Temperature-controlling device. No. 1,377,750; May 10; v. 286; p. 318.
- Churchman, Henry W., and J. N. White, Guymon, Okla. Harvesting-machine. No. 1,367,861; Feb. 8; v. 283; p. 251.
- Churchward, Alexander, assignor to Wilson Welder & Metals Company, Inc., New York, N. Y. Electrical welding apparatus. No. 1,370,286; Mar. 1; v. 284; p. 101.
- Churchward, Alexander, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Pressure variable resistance. No. 1,397,361; Nov. 15.
- Churchward, Jack, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Welding cast iron. No. 1,389,476; Aug. 30; v. 289; p. 932.
- Churley, John C., Rankin, Pa. Skid. No. 1,374,550; Apr. 12; v. 285; p. 268.
- Churnside, Phillip J., Hudson, Pa. Valve-grinding tool. No. 1,371,967; Mar. 15; v. 284; p. 531.
- Chute, Levi, St. Joseph, Mo. Animal-trap. No. 1,389,626; Sept. 6; v. 290; p. 13.
- Chute, Rainford K., Everett, Mass. Ladder-clamp. No. 1,374,060; Apr. 5; v. 285; p. 132.
- Ciesla, John. (See Becker, B. H., and Ciesla.)
- Ciglia, Ernest F., and L. F. Pelletier, New York, N. Y., assignors, by mesne assignments, to E. & E. Carburetor Company, Inc. Carburetor. No. 1,375,898; Apr. 26; v. 285; p. 620.
- Cigol, Frank A., Paterson, N. J. Forming hollow rubber articles. No. 1,378,523; May 17; v. 286; p. 518.
- Cihak, Anton, Jr., Shelbyville, Mich. Onion-topping machine. No. 1,368,487; Feb. 15; v. 283; p. 419.
- Cimaglia, Nicholas F. (See Rose, R., and Cimaglia.)
- Cincinnati Aluminum Casting Company. (See Kaefler, John G., assignor.)
- Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)
- Cincinnati Butchers' Supply Company, The. (See Schmidt, Charles G., and O. C., assignors.)
- Cincinnati Butchers' Supply Company, The. (See Schmidt, Oscar C., assignor.)
- Cincinnati Car Company, The. (See Elliott, Thomas, assignor.)
- Cincinnati Ball Crank Company, The. (See Breeze, Alfred B., assignor.)
- Cincinnati Ball Crank Company, The. (See Kaps, Richard A., assignor.)
- Cincinnati Frog & Switch Company. (See Edelblute, Thomas H., assignor.)
- Cincinnati Frog & Switch Company, The. (See Parlington, Charles H., assignor.)
- Cincinnati Frog & Switch Company, The. (See Partington, Charles, assignor.)
- Cincinnati Milling Machine Company, The. (See Hazelton, Robert T., assignor.)
- Cinechrome Instruments, Limited. (See Hillman, Albert G., assignor.)
- Cinema Patents Company. (See Leitl, Albert, assignor.)
- Cinema Patents Company. (See Teitel, Albert, assignor.)
- Cinquemani, Angelo P., and P. DeCaprio, Natick, R. I. Smash-preventer. No. 1,372,217; Mar. 22; v. 284; p. 636.
- Cirac, Charles P., San Francisco, Calif. Reverse-stop for vehicles. No. 1,388,404; Aug. 23; v. 289; p. 666.
- Cirac, George C., Fallon, Nev. Door opening and closing device. No. 1,394,278; Oct. 18.



*Alphabetical list of patentees—Continued.*

- Clravola, Charles, *et al.* (See Biondo, Philip M., assignor.)  
 Cirbus, Stephen J., Buffalo, N. Y. Envelop sealer and stamper. No. 1,371,146; Mar. 8; v. 284; p. 309.  
 Circle, Everett, Coalton, Okla. Shower-bath nozzle. No. 1,401,462; Dec. 27.  
 Cison, John, Wausau, Wis. Hydroplane. No. 1,391,368; Sept. 20; v. 290; p. 519.  
 Cities Illuminating Company, The. (See Passano, Leonard, assignor.)  
 Citizens National Bank, The. (See Karge, Maxwell R., assignor.)  
 Citizen's Trust & Savings Bank, administrator. (See Heylman, Edward M., assignor.)  
 Cito, Clement C., Brussels, Belgium. The treatment of copper sweeps and scraps. No. 1,367,768; Feb. 8; v. 283; p. 232.  
 City Machine & Tool Works. (See Nockol, Frederick C., assignor.)  
 City National Bank, The. (See Hallwood, Henry S., assignor.)  
 Civil, Frederick, Auckland, New Zealand. Music and manuscript holder. No. 1,368,897; Feb. 15; v. 283; p. 499.  
 Cizek, Albert T., Seattle, Wash. Conduit device for tapping cans. No. 1,401,584; Dec. 27.  
 Claassen, William A., Fond du Lac, Wis. Adjustable caster. No. 1,386,317; Aug. 2; v. 289; p. 71.  
 Claessens, Frederick C. (See Winne, Charles H., assignor.)  
 Claffey, Thomas J., *et al.* (See Johnston, James A., assignor.)  
 Clafin, C. A., Company. (See Robbins, Charles H., assignor.)  
 Clatin, Harry C., Cleveland, Ohio. Manufacture of screw-cutting oil. No. 1,401,760; Dec. 27.  
 Claggett, Robert B., Louisville, Ky. Buckle. No. 1,364,544; Jan. 4; v. 282; p. 96.  
 Clair, Isidore, Brooklyn, N. Y. Safety-razor. No. 1,368,116; Feb. 8; v. 283; p. 298.  
 Clair, Isidore, Brooklyn, N. Y. Nail-buffer. No. 1,369,619; Feb. 22; v. 283; p. 678.  
 Claireaux, Félix M. J. A. (See Leroy, C. E. H., and Claireaux.)  
 Clairmont, Victor, San Francisco, Calif. Apparatus for preserving eggs. No. 1,369,323; Feb. 22; v. 283; p. 620.  
 Clairmont, Victor, San Francisco, Calif. Automatic egg-preserving apparatus. No. 1,369,324; Feb. 22; v. 283; p. 620.  
 Clairmont, Victor, San Francisco, Calif. Process of and apparatus for preserving eggs. No. 1,370,628; Mar. 8; v. 284; p. 212.  
 Clairmont, Victor, San Francisco, Calif. Egg-grader. No. 1,370,629; Mar. 8; v. 284; p. 212.  
 Clairmont, Victor, San Francisco, Calif. Egg-preserving apparatus. No. 1,370,630; Mar. 8; v. 284; p. 212.  
 Clairmont, Victor and C. T. Lehmann, San Francisco, Calif. Egg-preservative. No. 1,388,024; Aug. 16; v. 289; p. 532.  
 Clancy, John, Kenner, La. Rail. No. 1,401,139; Dec. 27.  
 Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Conversion of carbon monoxid into carbon dioxide. No. 1,376,514; May 3; v. 286; p. 25.  
 Clanin, Ross N., Whiting, Ind. Door-fastening. No. 1,385,814; July 26; v. 288; p. 734.  
 Clapier, Albert G., Chambon-Fengerolles, France. Automatically-operating mechanical handling apparatus. No. 1,376,317; Apr. 26; v. 285; p. 701.  
 Clapp, Albert L., Marblehead, Mass. Glass-treating packet. No. 1,376,743; May 3; v. 286; p. 68.  
 Clapp, Albert L., Marblehead, Mass. Transferring or embossing paper. No. 1,398,770; Nov. 29.  
 Clapp, Albert L., Marblehead, assignor to The Metalite Company, Amesbury, Mass. Dye substitute. No. 1,367,862; Feb. 8; v. 283; p. 251.  
 Clapp, Albert L., Marblehead, assignor to The Flintkote Company, Boston, Mass. Paper felt. No. 1,327,640; Mar. 22; v. 284; p. 717.  
 Clapp, Albert L., Marblehead, assignor to R. W. Bird, Framingham, Mass. Roofing-felt. No. 1,374,187; Apr. 12; v. 285; p. 197.  
 Clapp, Albert L., Marblehead, assignor, by mesne assignments, to Fibreboard Company, Boston, Mass. Boot and shoe and making same. No. 1,380,865; June 7; v. 287; p. 104.  
 Clapp, Albert L., Danvers, Mass. Making paper and fiber board. No. 1,389,936; Sept. 6; v. 290; p. 76.  
 Clapp, Albert L., Danvers, assignor to The Flintkote Company, Boston, Mass. Flexible plastic composition. No. 1,379,590; May 24; v. 286; p. 794.  
 Clapp, E. H., Rubber Company. (See Pratt, William B., assignor.)  
 Clapp, Franklin H., Melrose, Mass. Outsole. No. 1,364,250; Jan. 4; v. 282; p. 39.  
 Clapp, Herbert L., deceased, Checotah, Okla., M. A. Clapp, administrator. Auxiliary car-step. No. 1,373,995; Apr. 5; v. 285; p. 121.  
 Clapp, Myrtle A., administrator. (See Clapp, Herbert L.)  
 Clapp, Peter A., assignor of one-third to William L. Sherman, Kalamazoo, Mich. Control for airplanes. No. 1,365,090; Jan. 11; v. 282; p. 245.  
 Clapp, Stuart H., Pittsfield, Mass. Truck for vehicles. No. 1,388,405; Aug. 23; v. 289; p. 666.  
 Clapp, Theodore V., Springfield, Mass. Rat-trap. No. 1,371,070; Mar. 8; v. 284; p. 295.  
 Clapperton, Alexander, Yonkers, N. Y. Pile-cutter. No. 1,381,905; June 21; v. 287; p. 412.  
 Clare, Charles H., Lower Broughton, Salford, England. Chuck for holding tools and bars. No. 1,372,482; Mar. 22; v. 284; p. 687.  
 Clare, Edward G. S., Seattle, Wash. Saw-self-dressing tool. No. 1,368,698; Feb. 15; v. 283; p. 460.  
 Claremont Machine Co. (See Fumagalli, G., Surlico, and Cardone, assignors.)  
 Clarenbach, Louis, Passaic, N. J. Textile-fabric-treating machine. No. 1,389,627; Sept. 6; v. 290; p. 13.  
 Clarin, Werner E., Chicago, Ill., assignor to R. S. Conant, Yonkers, N. Y. Metallic door. No. 1,376,607; May 3; v. 286; p. 43.  
 Clark, Absalom T., Winchester, Ind. Gate opener and closer. No. 1,386,991; Aug. 9; v. 289; p. 276.  
 Clark, Alexander M., Knoxville borough, Pa. Blow-out closure device or patch for pneumatic tires. No. 1,366,358; Jan. 25; v. 282; p. 574.  
 Clark, Alfred C., assignor of one-half to J. Scott, Philadelphia, Pa. Elevator. No. 1,376,253; Apr. 26; v. 285; p. 688.  
 Clark, Alva B. (See Demarest, C. S., Clark, and Crisson.)  
 Clark, Alva B., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telephone and call signal system. No. 1,371,298; Mar. 15; v. 284; p. 402.  
 Clark, Alva B., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Grid-circuits for electron-tubes. No. 1,385,777; July 26; v. 288; p. 726.  
 Clark, Alva B., and C. S. Demarest, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Balancing equipment for four-wire circuits. No. 1,378,836; May 24; v. 286; p. 652.  
 Clark, Archer B., Seattle, Wash. Bolting-up machine. No. 1,371,861; Mar. 15; v. 284; p. 512.  
 Clark, Arthur I. (See King, Clifford G., assignor.)  
 Clark, Arthur J., Traverse City, Mich. Hose-coupling. No. 1,366,634; Jan. 25; v. 282; p. 630.  
 Clark, Bertha, Brooklyn, N. Y. Figure toy. No. 1,374,821; Apr. 12; v. 285; p. 320.  
 Clark-Cadle-Harmon Corporation. (See Couch, Forrest J., assignor.)  
 Clark, Charles A. and F. W. Blair, New York, N. Y. Electric heater. No. 1,378,324; May 17; v. 286; p. 480.  
 Clark, Charles H., Dormont, Pa. Controlling-valve. No. 1,373,599; Apr. 5; v. 285; p. 43.  
 Clark, Charles H., New York, N. Y. Bicycle. No. 1,381,281; June 14; v. 287; p. 234.  
 Clark, Charles H., Easton, Me. Caster-wheel. No. 1,395,257; Nov. 1.  
 Clark, Charles H., Berkeley, Calif., assignor to Clark Pedmobile Corporation, Brooklyn, N. Y. Skate. No. 1,379,250; May 24; v. 286; p. 729.  
 Clark, Charles J., Lakewood, Ohio. Tool-holder. No. 1,398,679; Nov. 29.  
 Clark, Charles O., assignor to W. G. Borland, Montreal, Quebec, Canada. Fuel-economizers. No. 1,399,689; Dec. 6.  
 Clark Cutter, Inc., *et al.* (See Clark, John W., assignor.)  
 Clark, Daniel, Edmonton, Alberta, Canada. Means for varying the temperature of cars. No. 1,368,898; Feb. 15; v. 283; p. 499.  
 Clark, Daniel N., Albia, Iowa. Rotary engine. No. 1,367,801; Feb. 8; v. 283; p. 239.  
 Clark, David A., Baltimore, Md. Forming tubular car-axles. No. 1,366,717; Jan. 25; v. 282; p. 647.  
 Clark, David H., Waynesville, N. C. Sawing-machine. No. 1,382,892; June 28; v. 287; p. 652.  
 Clark, Don A., and C. E. Lowe, assignor, by mesne assignments, to The Republic Tool and Manufacturing Company, Cleveland, Ohio. Making tire mandrels. No. 1,380,528; June 7; v. 287; p. 39.  
 Clark, Dudley B., Jamestown, N. Y., assignor to Clark, Osgood and Allison, Incorporated. Electric cigar-lighter. No. 1,370,631; Mar. 8; v. 284; p. 212.  
 Clark, Edgar M., Alton, Ill., assignor to Standard Oil Company, Whiting, Ind. Distillation of petroleum hydrocarbons. No. 1,388,514; Aug. 23; v. 289; p. 687.  
 Clark, Edward B., Golconda, Ill. Indicating device. No. 1,393,500; Oct. 11.  
 Clark, Edward W., Los Angeles, Calif., assignor of one-fourth to S. S. Turner, one-fourth to S. M. Clark, and one-fourth to V. E. Turner, Los Angeles, Calif. Core-box for pistons. No. 1,378,524; May 17; v. 286; p. 519.  
 Clark, Edwin S., Walla Walla, Wash. Profile-map machine. No. 1,379,528; May 24; v. 286; p. 782.  
 Clark, Edwin W., Chicago, Ill. Photography. No. 1,372,936; Mar. 29; v. 284; p. 818.  
 Clark, Elmer A., Joliet, Ill. Automatic trip mechanism. No. 1,397,857; Nov. 22.  
 Clark, Elmer A., Joliet, assignor to W. E. Pratt, Chicago, Ill. Lifting-jack. No. 1,401,761; Dec. 27.  
 Clark, Elmer O., Millersburg, Ohio. Phonograph-record-handling device. No. 1,365,227; Jan. 11; v. 282; p. 272.  
 Clark, Emma E., Hammond, Ind. Lingerie-clip. No. 1,383,906; July 5; v. 288; p. 134.  
 Clark Equipment Company. (See Williams, Alfred O., assignor.)  
 Clark, Ernest, *et al.* (See Stanley, E. S., and Gay, assignors.)



## Alphabetical list of patentees—Continued.

- Clark, Ernest G., De Kalb, Ill. Stencil-cutting apparatus. No. 1,377,979; May 10; v. 286; p. 363.
- Clark, Francisco, Durango, Mexico. Adjustable tumbler-lock. No. 1,366,161; Jan. 18; v. 282; p. 493.
- Clark, Francisco, Durango City, Mexico. Combination-key-barrel construction. No. 1,369,727; Feb. 22; v. 283; p. 699.
- Clark, Francisco, Durango, Mexico. Spring slide door-lamb or latch. No. 1,383,983; July 5; v. 288; p. 150.
- Clark, Francisco, Durango City, Mexico. Combination-lock. No. 1,401,044; Dec. 20.
- Clark, Frank. (See Lazenby, William R., assignor.)
- Clark, Frank H. (See Elvin, Fabnestock, and Clark.)
- Clark, Frank J., assignor to Clark Pneumatic Action Company, Milwaukee, Wis. Expression device for automatic players. No. 1,384,010; July 5; v. 288; p. 156.
- Clark, Frederick J., assignor to Eastman Machine Co., Buffalo, N. Y. Sharpening device for cloth-cutting machines. No. 1,368,321; Feb. 15; v. 283; p. 386.
- Clark, George F., Des Moines, Iowa. Combined intake and exhaust manifold. No. 1,399,930; Dec. 13.
- Clark, George H. (See Hooper, S. C., and Clark.)
- Clark, George H., Melrose, assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Safety-valve. No. 1,380,094; May 31; v. 286; p. 963.
- Clark, George S., Blackey, Ky. Blasting paper sheet. No. 1,376,676; May 3; v. 286; p. 55.
- Clark, Harry A., J. F. Hill, Douglas, and A. G. McGregor, Warren, Ariz. Ore roasting furnace. No. 1,380,529; June 7; v. 287; p. 39.
- Clark, Harry H. (See Rhodes, John, assignor.)
- Clark, Harry H., Detroit, Mich. Automobile-snowplow. No. 1,365,153; Jan. 11; v. 282; p. 257.
- Clark, Harry H. and L. Schaumburger, Terre Haute, Ind. Foot-pedal for pneumatic door-operating mechanism. No. 1,401,875; Dec. 27.
- Clark, Harry L., Norwood, and J. H. Sower, Cincinnati, assignors, by mesne assignments, to The Southern Ohio Tin Can Company, Winton Place, Ohio. Paraffining-machine. No. 1,395,258; Nov. 1.
- Clark, Henry F., assignor to Window Glass Machine Company, Pittsburgh, Pa. Flattening-oven furnace. No. 1,378,657; May 17; v. 286; p. 545.
- Clark, James C. H. (See Olson, E. H. Clark, Mealey, and Pelter.)
- Clark, James R., Sadler, Tex. Hoe. No. 1,387,883; Aug. 16; v. 289; p. 505.
- Clark, Jesse E., Mountainview, Wyo. Calipers. No. 1,369,964; Mar. 1; v. 284; p. 40.
- Clark, John D. (See Ireland, E. G., and Clark.)
- Clark, John E., Lillington, N. C. Mop-head. No. 1,377,464; May 10; v. 286; p. 264.
- Clark, John G., Paisley, Ontario, Canada. Safety-stop for motor-vehicles. No. 1,396,356; Nov. 8.
- Clark, John T., Provo, Utah. Necktie-holder. No. 1,393,262; Oct. 11.
- Clark, John W., Alhambra, Calif., assignor of one-half to H. Almond, and one-half to Clark Cutter, Inc., Newark, N. J. Meat-cutting machine. No. 1,384,742; July 19; v. 288; p. 433.
- Clark, Joseph, De Graff, Minn. Sprayer device. No. 1,387,352; Aug. 9; v. 289; p. 348.
- Clark, Joseph D. (See Black, A. C., and Clark.)
- Clark, Joseph M., Apollo, Pa. Wrench. No. 1,398,889; Nov. 29.
- Clark, Le Grand L., New York, N. Y., assignor of one-half to The Sheridan Iron Works and one-half to T. W. & C. B. Sheridan Company. Detector-controlled gluing mechanism. No. 1,392,117; Sept. 27; v. 290; p. 744.
- Clark, Le Roy G., Detroit, Mich. Electrolier. No. 1,393,945; Oct. 18.
- Clark, Mary A. L., Boston, Mass. Tone-guide for singers. No. 1,389,240; Aug. 30; v. 289; p. 885.
- Clark, Maurice C., Franklin, Mass. Mold for cushion-heels. No. 1,370,287; Mar. 1; v. 284; p. 101.
- Clark & Mesker Milling Machine Company, The. (See Shields, F. S., and Camm, assignors.)
- Clark & Mesker Milling Machine Company, The. (See Shields, Frank S., assignor.)
- Clark, Ohio C. B., Akron, Ohio. Spotlight. No. 1,378,997; May 24; v. 286; p. 682.
- Clark, Omar E., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drill. No. 1,388,406; Aug. 23; v. 289; p. 666.
- Clark, Osgood and Allison. (See Clark, Dudley B., assignor.)
- Clark, Otis R., and C. H. Franklin, Schenectady, N. Y., assignors to General Electric Company. Drop-hammer. No. 1,393,501; Oct. 11.
- Clark Pedmobile Corporation. (See Clark, Charles H., assignor.)
- Clark, Perley C., Montrose, Colo. Motor. No. 1,365,381; Jan. 11; v. 282; p. 301.
- Clark Pneumatic Action Company. (See Clark, Frank J., assignor.)
- Clark, Robert F., Salt Lake City, Utah. Washing-machine. No. 1,388,800; Aug. 23; v. 289; p. 743.
- Clark, Robert G., Brooklyn, N. Y. Internal-combustion engine. No. 1,383,075; June 28; v. 287; p. 687.
- Clark, Robert G., Brooklyn, N. Y. Ratchet-jack. No. 1,396,253; Nov. 8.
- Clark, Robert G., assignor to A. Johnson, Brooklyn, N. Y. Receptacle cap or closure applying apparatus. No. 1,375,364; Apr. 19; v. 285; p. 486.
- Clark, Roswell M., Chicago, Ill. Cushioning-tire. No. 1,369,728; Feb. 22; v. 283; p. 699.
- Clark, Roy E., Earlham, Iowa. Operating device for valve-grinders. No. 1,401,314; Dec. 27.
- Clark, Samuel A., Seattle, Wash. Sewing-cabinet. No. 1,396,624; Nov. 8.
- Clark, Sank. (See Wolff, Edwin H., assignor.)
- Clark, Solomon. (See Lyttle, J. D., and Clark.)
- Clark Son & Morland, Ltd. (See Williams, Charles A., assignor.)
- Clark, Susie M., et al. (See Clark, Edward W., assignor.)
- Clark, T. S. (See Henderson, George A., assignor.)
- Clark, Terrence J., Holyoke, Mass. Beater-bar. No. 1,378,167; May 17; v. 286; p. 451.
- Clark Thread Company, The. (See Clauss, Max O., assignor.)
- Clark, Victor E., Grand Rapids, Mich. Broom. No. 1,377,660; May 10; v. 286; p. 281.
- Clark, Walter C., Fort Worth, Tex. Fire-extinguisher for aeroplanes and the like. No. 1,383,788; July 5; v. 288; p. 110.
- Clark, Walter L., Boone, Iowa. Straight-edge. No. 1,375,649; Apr. 19; v. 285; p. 541.
- Clark, Walter R., assignor to Bridgeport Brass Company, Bridgeport, Conn. Means for melting brass and similar scrap. No. 1,370,090; Mar. 1; v. 284; p. 63.
- Clark, Walter R., assignor to Bridgeport Brass Company, Bridgeport, Conn. Electric furnace. No. 1,370,632; Mar. 8; v. 284; p. 212.
- Clark, Warren F., assignor to The Steam Electric Products Company, Cleveland, Ohio. Controlling device. No. 1,373,411; Apr. 5; v. 285; p. 6.
- Clark, Warren F., assignor to The Steam-Electric Products Company, Cleveland, Ohio. Generator unit. No. 1,375,365; Apr. 19; v. 285; p. 487.
- Clark, Warren F., Cleveland, Ohio, assignor to The Steam-Electric Products Company. Heating apparatus. No. 1,381,282; June 14; v. 287; p. 234.
- Clark, Warren F., Cleveland, Ohio, assignor, by mesne assignments, to Automatic Electric Heater Company, Warren, Pa. Beverage-urn. No. 1,389,628; Sept. 6; v. 290; p. 13.
- Clark, Warren F., Cleveland, Ohio, assignor, by mesne assignments, to Automatic Electric Heater Company, Warren, Pa. Multiple-urn construction. No. 1,397,620; Nov. 22.
- Clark, Wilbur T., Cleveland, Ohio, assignor, by mesne assignments, to The Hanna Furnace Company. Combined cleaning-door and chimney-valve. No. 1,390,669; Sept. 13; v. 290; p. 316.
- Clark, Wilbur T., assignor to The Hanna Furnace Company, Cleveland, Ohio. Cleaning-door and chimney-valve. No. 1,396,676; Nov. 8.
- Clark, Wilbur T., Cleveland, assignor of one-half to P. J. Moran, East Cleveland, Ohio. Gas-burner. No. 1,397,501; Nov. 22.
- Clark, William B., Lyons Farm, N. J. Safety-switch lock. No. 1,381,906; June 21; v. 287; p. 412.
- Clark, William C., Spokane, Wash. Railway-spike. No. 1,393,343; Oct. 11.
- Clark, William E., Brandon, Manitoba, Canada. Machine for eradicating quack-grass. No. 1,380,635; June 7; v. 287; p. 53.
- Clark, William F., Laurel, Miss. Shotgun feed mechanism for sawmills. No. 1,371,862; Mar. 15; v. 284; p. 512.
- Clark, William G., Chicago, Ill. Adjustable air-separator. No. 1,383,984; July 5; v. 288; p. 151.
- Clark, William M., Chicago, Ill. Talking-machine for moving-picture apparatus. No. 1,367,863; Feb. 8; v. 283; p. 251.
- Clark, William M., Chicago, Ill. Talking moving-picture apparatus. No. 1,388,515; Aug. 23; v. 289; p. 687.
- Clark, William M., Chicago, Ill. Phonographic apparatus and combined phonographic and moving-picture apparatus. No. 1,388,516; Aug. 23; v. 289; p. 687.
- Clark, William R., Seattle, Wash. Vehicle-brake. No. 1,380,772; June 7; v. 287; p. 85.
- Clark, William R., Seattle, Wash. Carbureter. No. 1,386,238; Aug. 2; v. 289; p. 55.
- Clark, William T., Philadelphia, Pa., assignor of one-half to E. W. Marshall, Yonkers, N. Y. Meter. No. 1,401,315; Dec. 27.
- Clarke, Albert E., Detroit, Mich. Cable connection. No. 1,392,480; Oct. 4.
- Clarke, Alex A., Dallas, Tex. Work-engaging support for surface-treating machines. No. 1,366,633; Jan. 25; v. 282; p. 630.
- Clarke, Alex A., Dallas, Tex. Motor-driven surface-treating machine. No. 1,390,501; Sept. 13; v. 290; p. 280.
- Clarke, Alfred D., Enfield, England. Fire-extinguishing sprinkler. No. 1,365,967; Jan. 18; v. 282; p. 455.
- Clarke, Algernon, Ed. Grand Rapids, Mich. Undergarment. No. 1,398,624; Nov. 29.
- Clarke, Bruce E., Kansas City, Mo. Food compound. No. 1,397,723; Nov. 22.
- Clarke-Bruff, Charles, Coalport, England. Covered hollow ware. No. 1,370,783; Mar. 8; v. 284; p. 241.
- Clarke-Bruff, Charles, Coalport, England. Covered hollow ware. No. 1,384,302; July 12; v. 288; p. 265.
- Clarke, Cecil M., Chicago, Ill. Dipping-vat for building-paper, &c. No. 1,381,967; June 21; v. 287; p. 424.



*Alphabetical list of patentees—Continued.*

- Clarke, Charles M., Sewickley, Pa. Support for telephone-receivers. No. 1,391,370; Sept. 20; v. 290; p. 519.
- Clarke, Charles W. E., Brookline, Mass. Soot-cleaning apparatus. No. 1,374,551; Apr. 12; v. 285; p. 268.
- Clarke, Charles W. E., Newton, Mass. Radiator for motor-vehicles. No. 1,390,274; Sept. 13; v. 290; p. 236.
- Clark, Charlie N., assignor to A. V. Olson, Minneapolis, Minn. Spark-plug. No. 1,374,431; Apr. 12; v. 285; p. 245.
- Clarke, Clem S., Shreveport, La. Casing-head. No. 1,400,940; Dec. 20.
- Clarke, Edward W., Kingston-upon-Hull, England. Support for boiler-flues. No. 1,388,025; Aug. 16; v. 289; p. 532.
- Clarke, Hans T., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose nitrate composition. No. 1,370,878; Mar. 8; v. 284; p. 259.
- Clarke, Hans T., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ester composition. No. 1,370,879; Mar. 8; v. 284; p. 259.
- Clarke, Hans T., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose ether composition. No. 1,395,905; Nov. 1.
- Clarke, Hans T., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ester composition. No. 1,398,939; Nov. 29.
- Clarke, Harold A. (See Ross, Harry B., assignor.)
- Clarke, Harry D. (See Zuhars, B. C., and Clarke.)
- Clarke, John A., Jr., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,396,812; Nov. 15.
- Clarke, John A., Jr., and S. B. Schenck, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. No. 1,371,603; Mar. 15; v. 284; p. 462.
- Clarke, John L., Montreal, Quebec, Canada. Electrical measuring apparatus. No. 1,381,968; June 21; v. 287; p. 424.
- Clarke, John S., Boone, Iowa. Rotary cultivator. No. 1,383,528; July 5; v. 288; p. 55.
- Clarke, Louis S. (See Brumbaugh, A. H., Redding, and Clarke.)
- Clarke, Louis S., Haverford, Pa. Bomb-magazine for aeroplanes. No. 1,368,322; Feb. 15; v. 283; p. 386.
- Clarke, Michael J. (See Clarke, Peter J. and M. J.)
- Clarke, Peter J. and M. J., Chicago, Ill. Lashing-cutter. No. 1,397,362; Nov. 15.
- Clarke, Thomas B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-feeding device for machines for operating on heels. No. 1,377,315; May 10; v. 286; p. 235.
- Clarke, William H., Sydney, New South Wales, Australia. Incubator-alarm. No. 1,398,537; Nov. 29.
- Clarke, William L., Jr., assignor of one-half to J. A. Grant, Tallahassee, Fla. Street-indicator. No. 1,398,771; Nov. 29.
- Clarkson, Charles H., Worcester, Mass. Household drying-rack. No. 1,391,718; Sept. 27; v. 290; p. 663.
- Clarkson, Charles S., Toledo, Ohio. Cooling apparatus. No. 1,387,834; Aug. 16; v. 289; p. 496.
- Clarkson, Thomas, Chelmsford, England. Pressure-controlled valve. No. 1,367,864; Feb. 8; v. 283; p. 251.
- Clarotto Mfg. Co. (See Pfeiffer, Otto G., assignor.)
- Clary, John, Oakland, Calif. Burner. No. 1,398,839; Nov. 29.
- Clary, Perry G., Mount Pulaski, Ill. Aerial bomb. No. 1,371,353; Mar. 15; v. 284; p. 413.
- Clatworthy, Cecil G. (See Harper, Eugene D., assignor.)
- Claude, George E., Sherburn, assignor of one-half to J. C. Caldwell, Lakefield, Minn. Clevis. No. 1,368,117; Feb. 8; v. 283; p. 298.
- Claude, Georges, assignor to Societe L'Air Liquide (Societe Anonyme Pour l'Etude Et l'Exploitation Des Procédes Georges Clark, Paris, France. Apparatus for effecting exothermic chemical syntheses at high temperature and pressure. No. 1,371,299; Mar. 15; v. 284; p. 402.
- Claude, Georges, assignor to L'Air Liquide Societe Anonyme Pour l'Etude et l'Exploitation Des Procédes Georges Claude, Paris, France. Extraction of hydrogen from gaseous mixtures. No. 1,395,389; Nov. 1.
- Claus, Carl, Philadelphia, Pa. Dining-room turntable. No. 1,393,202; Oct. 11.
- Claus, Emil L., Milwaukee, Wis. Combined burner structure for gas-stoves. No. 1,395,799; Nov. 1.
- Clausen, Henry P. (See Goodrum, C. L., and Clausen.)
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,378,938; May 24; v. 286; p. 671.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,387,353; Aug. 9; v. 289; p. 348.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,387,354; Aug. 9; v. 289; p. 348.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,393,429; Oct. 11.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,393,430; Oct. 11.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,393,502; Oct. 11.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical system. No. 1,393,503; Oct. 11.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,393,946; Oct. 18.
- Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,397,034; Nov. 15.
- Clausen, Henry P., and Charles L. Goodrum, Mount Vernon and New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,371,737; Mar. 15; v. 284; p. 488.
- Clausen, H. P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,374,188; Apr. 12; v. 285; p. 198.
- Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,375,276; Apr. 19; v. 285; p. 470.
- Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,375,277; Apr. 19; v. 285; p. 470.
- Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,380,357; June 7; v. 287; p. 6.
- Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,386,688; Aug. 9; v. 289; p. 215.
- Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,396,730; Nov. 15.
- Clausen, Julius C., and J. Buckley, Buckley Bay, British Columbia, Canada. Choker-line attachment. No. 1,381,616; June 14; v. 287; p. 296.
- Clausen, Leon R., Moline, Ill., assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Side-delivery rotary rake. No. 1,371,410; Mar. 15; v. 284; p. 425.
- Clausen, Paul F., *et al.* (See Stoetzel, Joseph J., assignor.)
- Clausing, George, assignor to The Vulcan Last Company, Portsmouth, Ohio. Last. No. 1,378,998; May 24; v. 286; p. 682.
- Clauss, Max O. (See Verran, H. E., and Clauss.)
- Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Winding skeins. No. 1,401,515; Dec. 27.
- Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Skein-winding mechanism. No. 1,401,516; Dec. 27.
- Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Skeining-machine. No. 1,401,517; Dec. 27.
- Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Skein-holder. No. 1,401,518; Dec. 27.
- Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Skein-binding mechanism. No. 1,401,519; Dec. 27.
- Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Article collecting and bundling mechanism. No. 1,401,520; Dec. 27.
- Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Skein. No. 1,401,521; Dec. 27.
- Clauss, Max O., New York, N. Y., assignor to The Clark Thread Company, Newark, N. J. Skein supporting and folding means. No. 1,401,522; Dec. 27.
- Claussen, Martin, San Francisco, and G. H. Bradt, Oakland, Calif., assignors, by mesne assignments, to Wizard Electric Lamp Company. Portable electric-lamp bracket. No. 1,401,672; Dec. 27.
- Clavel, René, Basel-Augst, Switzerland. Dyeing cellulose acetate. No. 1,378,443; May 17; v. 286; p. 503.
- Clavara, Raffaele, *et al.* (See Hemphill, Henry B., assignor.)
- Clawson, Leonard E., San Francisco, Calif. Cushioning device and support for vehicle-frames. No. 1,390,021; Sept. 6; v. 290; p. 93.
- Clawson, Leonard E. and William H., San Francisco, Calif. Deafening attachment for automobiles. No. 1,370,880; Mar. 8; v. 284; p. 259.
- Clawson, William H. (See Clawson, Leonard E., and W. H.)
- Clay, Anson E., deceased, Newton, Iowa; A. Perry, administratrix. Window-lock. No. 1,395,556; Nov. 1.
- Clay, Harry E. (See Simpson, J., and Clay.)



- Clay, Marcelan N., Morgan City, La. Spring-wheel. No. 1,372,641; Mar. 22; v. 284; p. 717.
- Clay, Sempel B., St. Louis, assignor of one-half to E. R. Fish, Webster Groves, Mo. Bolt-threading machine. No. 1,377,146; May 3; v. 286; p. 146.
- Clay, Samuel B. (See Fahmeyer, F. O., and Clay.)
- Clay, Samuel B., assignor of one-half to E. R. Fish, Webster Groves, Mo. Machine for threading bolts and pipes. No. 1,381,542; June 14; v. 287; p. 283.
- Clay, Wallace L., U. S. Army. Armor-piercing, spotlight, and incendiary bullet. No. 1,380,773; June 7; v. 287; p. 85.
- Clay, Wallace L., Bridesburg, and J. W. Taylor, Frankford, Pa. Fuse. No. 1,380,774; June 7; v. 287; p. 86.
- Clay, Wallace L., Bridesburg, Pa., J. C. Beatty, Washington, D. C., and D. G. Baker, Greenfield, Mass. Armor-piercing tracing-bullet. No. 1,384,011; July 5; v. 288; p. 156.
- Clay, Wellington S., Hutchinson, Minn. Fire-alarm-bell actuator. No. 1,374,432; Apr. 12; v. 285; p. 245.
- Clayback, Stephen G., Gardenville, N. Y. Air-brake-piston-leather-expanding ring. No. 1,393,664; Oct. 11.
- Claybourn, Leslie W., Menasha, Wis. Apparatus for curving printing-plates. No. 1,372,064; Mar. 22; v. 284; p. 607.
- Claydon, Henry, *et al.* (See Trainor, Devaney, C. E., assignor.)
- Clayton, George I. (See Blasses, Ernest, assignor.)
- Clayton, James, Coventry, England, assignor to The Viscose Company, Marcus Hook, Pa. Process of and apparatus for the spinning of artificial silk. No. 1,366,162; Jan. 18; v. 282; p. 493.
- Clayton, James, Coventry, England, assignor to The Viscose Company, Marcus Hook, Pa. Apparatus employed in the manufacture of artificial silk. No. 1,366,163; Jan. 18; v. 282; p. 493.
- Clayton, James, Coventry, assignor to Courtaulds, Ltd., London, England. Opening device for spinning-boxes. No. 1,373,169; Mar. 29; v. 284; p. 864.
- Clayton, James, Coventry, assignor to Courtaulds, Ltd., London, England. Spinning-box for artificial silk. No. 1,385,306; July 19; v. 288; p. 553.
- Clayton, James, Coventry, assignor to Courtaulds, Ltd., London, England. Artificial-silk spinning apparatus. No. 1,399,690; Dec. 6.
- Clayton, Joseph, New York, N. Y. Take-up mechanism for winding devices. No. 1,398,680; Nov. 29.
- Clayton & Lambert Manufacturing Company. (See Groehn, Otto J., assignor.)
- Clayton & Lambert Manufacturing Company. (See Lambert, Charles R., assignor.)
- Clayton, Martin M., Beaver, assignor to National Metal Molding Company, Pittsburgh, Pa. Sectional box structure. No. 1,369,083; Feb. 22; v. 283; p. 574.
- Clayton, Samuel B., Greensboro, N. C. Automobile-lock. No. 1,395,906; Nov. 1.
- Clayton, Thomas A., Paris, France. Apparatus for the manufacture of oxygen compounds of sulfur. No. 1,364,716; Jan. 4; v. 282; p. 129.
- Clayton, William, Liverpool, and G. Nodder, Wallasey, England. Cooler. No. 1,375,210; Apr. 19; v. 285; p. 457.
- Clayton, William, Liverpool, and G. Nodder, Wallasey, England. Manufacture of butter substitutes, edible fats, and the like. No. 1,398,003; Nov. 22.
- Clayton, William F., Cullman, Ala. Roller-fender. No. 1,377,115; May 3; v. 286; p. 140.
- Clayton, William S., Vancouver, British Columbia, Canada. Incline-indicator. No. 1,375,278; Apr. 19; v. 285; p. 470.
- Clayton-Wright Limited. (See Reynolds, James E., assignor.)
- Claytor, Edward M., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Connector. No. 1,376,401; May 3; v. 286; p. 5.
- Cleal, Joseph P., and R. E. Awde, Toronto, Ontario, Canada. Lock. No. 1,396,163; Nov. 8.
- Clear, Andrew R., Nashua, N. H. Envelop opener. No. 1,377,805; May 10; v. 286; p. 329.
- Clearwater, Earl C., Los Angeles, Calif. Sanitary ice-cream-cone protector. No. 1,375,778; Apr. 26; v. 285; p. 597.
- Cleary, Edwin, London, England. Burner for burning oil and other liquid fuel. No. 1,381,080; June 7; v. 287; p. 145.
- Cleaton, Lewis, Prairieville, Tex. Plow attachment. No. 1,401,877; Dec. 27.
- Clebo, Steve. (See Panik, J., and Clebo.)
- Cleifton, Claud J., assignor, by mesne assignments, of one-half to G. J. Cleifton, Owatonna, Minn. Cooker. No. 1,381,800; June 14; v. 287; p. 332.
- Cleifton, Claud J., assignor, by mesne assignments, of one-half to Guy J. Cleifton, Owatonna, Minn. Cooking utensil. No. 1,389,241; Aug. 30; v. 289; p. 885.
- Cleifton, Guy J. (See Cleifton, Claud J., assignor.)
- Clegg, George H., Cardiff, Wales. Treating tin-scuff produced in making tin andterne-plates. No. 1,365,456; Jan. 11; v. 282; p. 316.
- Clegg, James W., Oldham, England. Combing-machine. No. 1,382,893; June 28; v. 287; p. 653.
- Cleghorn, Charles A., Woburn Sands, England. Material or producing materials for coating substances to protect them or render them non-porous. No. 1,396,023; Nov. 8.
- Cleland, Andrew V., Minneapolis, Minn. Grain-cleaning machine. No. 1,365,303; Jan. 11; v. 282; p. 286.
- Cleland, Andrew V., Minneapolis, Minn. Grain-cleaner. No. 1,365,304; Jan. 11; v. 282; p. 287.
- Cleland, Charles W. and J. G. Baldwin Park, Calif. Cement-block mold. No. 1,379,965; May 31; v. 286; p. 939.
- Cleland, James E. (See Scott, T., and Cleland.)
- Cleland, James G. (See Cleland, Charles W. and J. G.)
- Clelland, Duncan. (See McFarlane, J., and Clelland.)
- Clemence, Walter. (See Randall, Victor E., assignor.)
- Clemens, Harry B., Port Orchard, Wash. Bolt-tightener. No. 1,386,455; Aug. 2; v. 289; p. 96.
- Clemens, John G., Buffalo, N. Y. Electrical resistance element and producing same. No. 1,372,642; Mar. 22; v. 284; p. 718.
- Clemens, John G., Buffalo, N. Y. Tube for fuses. No. 1,396,357; Nov. 8.
- Clement, Alvah W., East Cleveland, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Alloy. No. 1,365,091; Jan. 11; v. 282; p. 245.
- Clement, Alvah W., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Acid-resisting alloy. No. 1,375,081; Apr. 19; v. 285; p. 433.
- Clement, Alvah W., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Alloy. No. 1,375,082; Apr. 19; v. 285; p. 433.
- Clement, Alvah W., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Alloy. No. 1,375,083; Apr. 19; v. 285; p. 433.
- Clement, Alvah W., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Acid-resisting alloy. No. 1,375,672; Apr. 26; v. 285; p. 578.
- Clement, Alvah W., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Acid-resisting article and making same. No. 1,375,673; Apr. 26; v. 285; p. 578.
- Clement, Alvah W., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Alloy. No. 1,389,097; Aug. 30; v. 289; p. 856.
- Clement, Alvah W., East Cleveland, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Alloy. No. 1,400,527; Dec. 20.
- Clement, Benj. H., *et al.*, executors. (See Clement, Frank H.)
- Clement, Charles G., assignor to Highway Trailer Company, Edgerton, Wis. Steering and coupling connection for trailer-vehicles. No. 1,385,361; July 26; v. 288; p. 641.
- Clement, Frank H., deceased; L. S., M. G., and B. H. Clement, executors, assignors to American Woodworking Machinery Company, Rochester, N. Y. Feeding-chain. No. 1,371,968; Mar. 15; v. 284; p. 532.
- Clement, Frank H., deceased; L. S. Clement, M. G. Clement, and B. H. Clement, executors, assignors to American Woodworking Machinery Company, Rochester, N. Y. Lubricator for ball-bearings. No. 1,378,658; May 17; v. 286; p. 545.
- Clement, George A., Mount Vernon, N. Y., assignor to General Optical Company. Multifocal lens. No. 1,401,238; Dec. 27.
- Clement, Lewis M., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Oscillation-generating system. No. 1,395,390; Nov. 1.
- Clement, Louisa S., *et al.*, executors. (See Clement, Frank H.)
- Clement, Mary G., *et al.*, executors. (See Clement, Frank H.)
- Clements, Arthur E., South Jacksonville, Fla. Combined jack and puller. No. 1,395,945; Nov. 1.
- Clements, Carl A., Grand Rapids, Mich. Union-suit. No. 1,390,086; Sept. 6; v. 290; p. 107.
- Clements, George, assignor to Clements Mfg. Co., Chicago, Ill. Vacuum-cleaner. No. 1,392,624; Oct. 4.
- Clements Mfg. Co. (See Clements, George, assignor.)
- Clementson, Johan F. J., Malmö, Sweden. Outboard-motor for boats. No. 1,382,955; June 28; v. 287; p. 665.
- Clemons, Charles H., Weldon, Ill. Wrist-pin. No. 1,395,946; Nov. 1.
- Clemons, Harmon E., Pulaski, N. Y. Spark-plug. No. 1,398,175; Nov. 22.
- Clemons, T. A., *et al.* (See Renfro, Richard R., assignor.)
- Clemetson, Tobias, Duluth, Minn. Pack-sack. No. 1,397,161; Nov. 15.
- Clendenning, William L., Philadelphia, Pa., assignor of one-half to R. Kelly-Walker, Wildwood, N. J. Tire. No. 1,401,045; Dec. 20.
- Clendenon, James L., Ensley, Ala. Hub for gears, pulleys, and tools. No. 1,392,915; Oct. 11.
- Clepe, Louis, *et al.* (See Stoewesand, Charles F., assignor.)
- Clerke, Augustus B. H. (See Hadfield, R. A., Jack, and Clerke.)
- Clermont, John B., New York, N. Y. Apparatus and package for forming solutions by percolation. No. 1,377,316; May 10; v. 286; p. 235.
- Cleveland, Arthur J. and C. I., Salina, Kans. Automatic cut-off for gasoline-engines. No. 1,374,635; Apr. 12; v. 285; p. 284.
- Cleveland Brass Manufacturing Company, The. (See Clement, Alvah W., assignor.)



*Alphabetical list of patentees—Continued.*

- Cleveland Brass Manufacturing Company, The. (See Gledler, John T., assignor.)
- Cleveland, Cecil L. (See Cleveland, Arthur J. and C. I.)
- Cleveland Chain & Mfg. Company, The. (See Hughes, Hugh T., assignor.)
- Cleveland, David P., assignor to Ed. Wilkerson and J. A. Bergfeld, Dallas, Tex. Paint and varnish removing process. No. 1,370,188; Mar. 1; v. 284; p. 82.
- Cleveland Dental Manufacturing Company, The. (See Risley, Sheridan, assignor.)
- Cleveland Electric Machine and Manufacturing Company, The. (See Kidney, Willis E., assignor.)
- Cleveland Folding Machine Company, The. (See Olson, Andrew, assignor.)
- Cleveland Gas Burner & Appliance Co., The. (See Stine, Charles W., assignor.)
- Cleveland Metal Products Company, The. (See Chadwick, L. S., and Resek, assignors.)
- Cleveland Metal Products Company, The. (See Chadwick, Lee S., assignor.)
- Cleveland Osborn Manufacturing Company, The. (See Carman, E. S., and Oyster, assignors.)
- Cleveland Osborn Manufacturing Company. (See Frost, Clinton E., assignor.)
- Cleveland Osborn Manufacturing Company, The. (See Frost, Clinton E., assignor.)
- Cleveland Steel Tool Company, The. (See Doolittle, John E., assignor.)
- Cleveland Tractor Company, The. (See Greiner, Anton F., assignor.)
- Cleveland Tractor Company. (See Morgan, M. B., and Savage, assignors.)
- Cleveland Tractor Company, The. (See Morgan, Mathew B., assignor.)
- Cleveland Tractor Company, The. (See White, R. H., and Morgan, assignors.)
- Cleveland Tractor Company, The. (See White, Rollin H., assignor.)
- Clevenger, Galen H., Washington, D. C., assignor to Research Corporation, New York, N. Y. Apparatus for treating ores or the like. No. 1,379,083; May 24; v. 286; p. 698.
- Clews, Charles E., Paeroa, assignor of three-sixths to P. N. Kingswell, Auckland, New Zealand. Lifting-jack and hauler. No. 1,376,136; Apr. 26; v. 285; p. 666.
- Click, Walter E., assignor to The Godfrey Conveyor Company, Elkhart, Ind. Track-joint. No. 1,389,545; Aug. 30; v. 289; p. 946.
- Clickner, Earle, assignor to Shakespeare Company, Kalamazoo, Mich. Fishing-reel. No. 1,369,785; Mar. 1; v. 284; p. 6.
- Cliff Manufacturing Works. (See Frick, William, assignor.)
- Cliff, Ray Y. (See Howell, Delta B., assignor.)
- Cliff, Ray Y. (See Strobl, Frank P., assignor.)
- Clifford, Charles Edwin, and T. J. Mackie, Brampton, Ontario, Canada. Posting ledger-rack. No. 1,380,775; June 7; v. 287; p. 86.
- Clifford-Farrn, Walter T., Barnes, England. Rubber tire. No. 1,397,795; Nov. 22.
- Clifford, Ferdinand J., assignor to F. H. Cooper and W. Z. Pateros, Wash. Water-heater. No. 1,377,806; May 10; v. 286; p. 329.
- Clifford, John J., assignor to H. D. Lathrop, Chicago, Ill. Valve. No. 1,378,217; May 17; v. 286; p. 460.
- Clifford, William H., Ealing, London, England. Adjustable chuck. No. 1,384,237; July 12; v. 288; p. 252.
- Clifford, William H., Ealing, London, England. Flexible shaft-coupling. No. 1,386,161; Aug. 2; v. 289; p. 40.
- Clifford-Wood Co. (See Phillips, Byron B., assignor.)
- Clifton, Jesse A., Orangeburg, S. C. Wax-melting machine and seal-maker. No. 1,393,263; Oct. 11.
- Clifton, Lonnie N., Raleigh, N. C. Saddle for engines. No. 1,386,924; Aug. 9; v. 289; p. 263.
- Clifton, Sydney, assignor to S. T. Allen, Los Angeles, Calif. Tractor transmission. No. 1,392,865; Oct. 4.
- Clifton, Sydney, Los Angeles, assignor to L. M. Allen, Burbank, Calif. Self-cleaning tractor wheel and gears. No. 1,392,866; Oct. 4.
- Climax Cabinet Company. (See Miller, Fred W., assignor.)
- Climie, William, Bo'ness, Scotland, assignor of one-fifth to Chapman Engineering Company, Mount Vernon, Ohio. Gas-producer. (Reissue.) No. 15,057; Mar. 8; v. 284; p. 322.
- Cline, Robert W., assignor of one-half to F. S. Moore, San Jose, Calif. Artichoke-trimmer. No. 1,395,481; Nov. 1.
- Clinker, Reginald C., Rugby, England, assignor to General Electric Company. Radiosignaling system. No. 1,386,840; Aug. 9; v. 289; p. 246.
- Clinq-Mars, Legendre, San Francisco, Calif. Gas-heater. No. 1,392,479; Oct. 4.
- Clinton, Harry D., Whitney Point, N. Y. Textile spool or bobbin. No. 1,395,038; Oct. 25.
- Clinton Refrigerating Company. (See Wishart, William and J. D., assignors.)
- Clinton Refrigerator Company. (See Wishart, W., and Morrell, assignors.)
- Clipless Paper Fastener Company. (See Hawkins, J. C., assignor.)
- Clippinger, John E. (See Reed, B. E., and Clippinger.)
- Clock, Fred A. (See Kessler, C. C., and Clock.)
- Clodfelter, Charles W., Fall River, Mass. Shifting stage. No. 1,384,180; July 12; v. 288; p. 240.
- Cloetens, Georges, Brussels, Belgium. Mandolin attachment for pianos. No. 1,392,248; Sept. 27; v. 290; p. 270.
- Cloetens, Georges, Brussels, Belgium. Beating reed and beating-reed organ. No. 1,399,462; Dec. 6.
- Cloetens, Georges, Brussels, assignor of one-third to G. Laloux, Liege, and one-third to L. Van Der Heyden a Hauzeur, Brussels, Belgium. Harmonic damper for pianos. No. 1,392,244; Sept. 27; v. 290; p. 769.
- Cloetens, Georges, Brussels, assignor of one-third to G. Laloux, Liege, and one-third to L. Van Der Heyden a Hauzeur, Brussels, Belgium. Stringed musical instrument. No. 1,392,245; Sept. 27; v. 290; p. 769.
- Cloetens, Georges, Brussels, assignor of one-third to G. Laloux, Liege, and one-third to L. Van Der Heyden a Hauzeur, Brussels, Belgium. Stringed musical instrument. No. 1,392,246; Sept. 27; v. 290; p. 770.
- Cloetens, Georges, Brussels, assignor of one-third to G. Laloux, Liege, and one-third to L. Van Der Heyden a Hauzeur, Brussels, Belgium. Pianissimo device of the curtain type. No. 1,392,247; Sept. 27; v. 290; p. 770.
- Clore, Franklin H., Livingston, Tex. Well-drilling tool. No. 1,373,996; Apr. 5; v. 285; p. 121.
- Close, Jacob V., Norwalk, Conn. Hollow tile. No. 1,395,176; Oct. 25.
- Close, James T., Newkirk, Okla. Bridge and culvert form. No. 1,384,514; July 12; v. 288; p. 309.
- Close, Harry M., and H. G. Taylor, Cartersville, Mo. Adjustable bushing. No. 1,371,666; Mar. 15; v. 284; p. 475.
- Closs, Jacob, St. Ansgar, Iowa. Air-concentrator. No. 1,377,807; May 10; v. 286; p. 330.
- Closson, Clarence E., Potlatch, Idaho. Advertising-cabinet. No. 1,393,665; Oct. 11.
- Closz, Adolph, Webster City, Iowa. Wheel structure. No. 1,368,899; Feb. 15; v. 283; p. 499.
- Clothel Company, The. (See Farrar, Mercer G., assignor.)
- Cloud, James, Columbus, Ohio. Tank. No. 1,398,934; Nov. 29.
- Cloud, James E. and H. F. Stalter, Harpster, Ohio. Flue-stop. No. 1,401,316; Dec. 17.
- Clough, Alfred N., Sunnyvale, Calif. Water-heater. No. 1,399,192; Dec. 6.
- Clough, Fred, M., Bryant, S. D. Typewriter-desk. No. 1,392,744; Oct. 4.
- Clough, Frederick H. (See Taylor, H. W., and Clough.)
- Clough, Ora R., Ladysmith, Wis. Pencil-pointner. No. 1,376,254; Apr. 26; v. 285; p. 688.
- Clough, William E., Redondo Beach, Calif. Hand and foot accelerator for carbureters of automobile-engines. No. 1,398,625; Nov. 29.
- Clouser, Clarence J., Columbus, Ohio. Swing. No. 1,390,502; Sept. 13; v. 290; p. 281.
- Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Holder for heading-tools. No. 1,366,359; Jan. 25; v. 282; p. 574.
- Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Die-slide-operating mechanism. No. 1,366,360; Jan. 25; v. 282; p. 575.
- Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Crank connection for heading-slides of heading and forging machinery, presses, nut machinery, and the like. No. 1,366,361; Jan. 25; v. 282; p. 575.
- Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Automatic release mechanism for heading and forging machines. No. 1,382,625; June 28; v. 287; p. 601.
- Clouse, William L., assignor to The National Machinery Co., Tiffin, Ohio. Header for bolt-machines. No. 1,399,850; Dec. 13.
- Clouser, Harry E., and E. R. Thornton, assignors of one-fifth to N. Harrison, Stockton, Calif. Reinforced concrete construction. No. 1,374,356; Apr. 12; v. 285; p. 230.
- Clove, Jacob, Calgary, Alberta, Canada. Traveling threshing-machine. No. 1,380,636; June 7; v. 287; p. 59.
- Clover, Alphonso M., assignor to Parke Davis & Company, Detroit, Mich. Manufacturing glandular extractive product. No. 1,373,551; Apr. 5; v. 285; p. 34.
- Clover, Eliot K., Lohrville, Iowa. Checkrein-holder. No. 1,399,463; Dec. 6.
- Clow, Robert, Kansas City, Kans. Plumber's clean-out. No. 1,374,189; Apr. 12; v. 285; p. 198.
- Clower, Charles H., Philadelphia, Pa. Boat-propelling mechanism. No. 1,367,123; Feb. 1; v. 283; p. 48.
- Cludius, Charles F. (See Manning, J. T., and Cludius.)
- Cluett, Peabody & Co. Inc. (See Cluett, Sanford L., assignor.)
- Cluett, Peabody & Co. (See Connolly, Charles M., assignor.)
- Cluett, Peabody & Co. (See Hess, J. W., and Hodgins, assignors.)
- Cluett, Peabody & Co. (See Wright, Sheldon T., assignor.)
- Cluett, Sanford L., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Collar, &c. No. 1,397,921; Nov. 22.
- Cluff, Chester C., San Francisco, Calif. Embroidery-needle. No. 1,398,004; Nov. 22.



*Alphabetical list of patentees—Continued.*

- Cluff, Clarence B., Westfield, N. J., assignor to The American Cotton Oil Company, New York, N. Y. Production of catalysts. No. 1,381,969; June 21; v. 287; p. 424.
- Cluff, George A., Clifton, N. J. Warming-machine. No. 1,377,751; May 10; v. 286; p. 318.
- Cluff, George P., Jr., Sacramento, Calif. Chair. No. 1,364,181; Jan. 4; v. 282; p. 26.
- Clugg, Florence T., Spencer, Wis. Washing-machine. No. 1,376,255; Apr. 26; v. 285; p. 689.
- Clulee, Stephen J., Attleboro, Mass. Construction for eyeglasses. No. 1,366,768; Jan. 25; v. 282; p. 657.
- Clulee, Stephen J., Attleboro, Mass., assignor to Bay State Optical Company. Spectacle-frame. No. 1,384,303; July 12; v. 288; p. 266.
- Cluley, John P., Chicago, Ill. Headlight. No. 1,399,378; Dec. 6.
- Clum, Ira E., Lima, Ohio. Tamping-tool. No. 1,376,137; Apr. 26; v. 285; p. 667.
- Clutts, Joseph C., Fort Thomas, Ky. Electric-fan heater. No. 1,399,931; Dec. 13.
- Clymer, Albert A., Gowrie, Iowa. Tool for handling tiles. No. 1,401,046; Dec. 20.
- Coady, Matthew D., Auburn, assignor to J. N. Henry, Providence, R. I. Curtain-rod bracket. No. 1,400,726; Dec. 20.
- Coaker, Frederick F., Shaftesbury, England. Apparatus for opening air-tight tins. No. 1,376,515; May 3; v. 283; p. 26.
- Coakley, William E., assignor to The Ohio Body & Blower Company, Cleveland, Ohio. Apparatus for forming valve-seats. No. 1,367,238; Feb. 1; v. 283; p. 71.
- Coakley, William E., assignor to The Ohio Body & Blower Company, Cleveland, Ohio. Forming valve-seats. No. 1,390,022; Sept. 6; v. 290; p. 93.
- Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Cracking hydrocarbons. No. 1,370,881; Mar. 8; v. 284; p. 259.
- Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for cracking hydrocarbons. No. 1,372,937; Mar. 29; v. 284; p. 818.
- Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Apparatus for treating hydrocarbons. No. 1,374,357; Apr. 12; v. 285; p. 230.
- Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Cracking hydrocarbons. No. 1,379,333; May 24; v. 286; p. 746.
- Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Cracking hydrocarbons. No. 1,388,629; Aug. 23; v. 289; p. 709.
- Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Cracking hydrocarbons. No. 1,400,800; Dec. 20.
- Coatalen, Louis, and H. C. M. Stevens, assignors of one-half to Sunbeam Motor Car Company, Limited, Wolverhampton, England. Clutch for power transmission. No. 1,400,265; Dec. 13.
- Coates, Charles B., assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Power-hammer. No. 1,382,821; June 28; v. 287; p. 639.
- Coates, Daniel B., Payette, Idaho. Cattle-stanchion. No. 1,397,833; Nov. 22.
- Coates, Frederick, Wyoming, assignor to Federal Products Company, Cincinnati, Ohio. Paste-applying apparatus. No. 1,384,048; July 12; v. 288; p. 213.
- Coates, Frederick, Wyoming, assignor to Federal Products Company, Cincinnati, Ohio. Machine for securing end closures in vessels. No. 1,384,049; July 12; v. 288; p. 213.
- Coates, Frederick, Wyoming, assignor to Federal Products Company, Cincinnati, Ohio. Paste-applying machine. No. 1,393,505; Oct. 11.
- Coates, Frederick, Wyoming, assignor to The Federal Products Company, Cincinnati, Ohio. Machine for making flanged heads or ends for paper or pulp containers. No. 1,393,752; Oct. 18.
- Coates, John E., (See Williams, Harry M., assignor.)
- Coates, Ray G., Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpville, Pa. Reinforced ingot-mold. No. 1,376,402; May 3; v. 286; p. 5.
- Coates, Ray G., Pasadena, Calif., assignor to Valley Mould and Iron Corporation, Sharpville, Pa. Ingot-mold and making same. No. 1,376,403; May 3; v. 286; p. 5.
- Coates, Victor H., (See Dodson, S. M., and Coates.)
- Coates, William, Newark, N. J. Heat-exchange system. No. 1,401,523; Dec. 27.
- Coats, Allan, Newark, N. J., and W. Cameron, Paisley, Scotland. Internal-combustion engine. No. 1,364,481; Jan. 4; v. 282; p. 84.
- Coats, Allan, Newark, N. J., and W. Cameron, Paisley, Scotland. Internal-combustion engine. No. 1,364,482; Jan. 4; v. 282; p. 85.
- Coats, Edward O., Post oak, assignor of one-half to G. L. Hall, Leeton, Mo. Demountable rim for vehicle-wheels. No. 1,381,168; June 14; v. 287; p. 214.
- Coats, Fred R., and J. F. Hartwell, Springfield, Ill. Depth-adjuster for watch-escapements. No. 1,368,118; Feb. 8; v. 283; p. 299.
- Coatsworth, William, Highland Park, Mich. Truck-wheel shoe. No. 1,398,890; Nov. 29.
- Cobb, Albert C., Houston, Tex. Mail-delivery apparatus. No. 1,366,401; Jan. 25; v. 282; p. 583.
- Cobb, Albert C., Houston, Tex. Automobile-signal. No. 1,386,597; Aug. 9; v. 289; p. 196.
- Cobb, Albert R., assignor to Cobb Electric Appliance Co., Boston, Mass. Pressure-controlled electric switch. No. 1,377,317; May 10; v. 286; p. 236.
- Cobb, Bertram G., Independence, Kans. Check-protector. No. 1,369,400; Feb. 22; v. 283; p. 635.
- Cobb Electric Appliance Co. (See Cobb, Albert B., assignor.)
- Cobb, Ernest B., Jersey City, assignor to Standard Oil Company (of New Jersey), Bayonne, N. J. Purifying hydrocarbon oils. No. 1,387,835; Aug. 16; v. 289; p. 496.
- Cobb, Ernest B., Jersey City, assignor to Standard Oil Company, Bayonne, N. J. Manufacture of viscous water-white oils and other decolorized products of petroleum. No. 1,388,517; Aug. 23; v. 289; p. 688.
- Cobb, Ernest B., Jersey City, assignor to Standard Oil Company, Bayonne, N. J. Manufacture of medicinal oils and other viscous decolorized products of petroleum. No. 1,388,832; Aug. 23; v. 289; p. 748.
- Cobb, F. Gordon, Greenville, S. C. Dobby-loom. No. 1,383,076; June 28; v. 287; p. 687.
- Cobb, Lawrence, Richmond, Va. Filling-machine. No. 1,375,674; Apr. 26; v. 285; p. 579.
- Cobb, Ralph B., River Forest, Ill. Apparatus for handling brick. No. 1,380,776; June 7; v. 287; p. 86.
- Cobb, Windsor, San Francisco, Calif., assignor to R. Blackington & Co., North Attleboro, Mass. Combined cigarette holder and extinguisher. No. 1,385,964; July 26; v. 288; p. 763.
- Cobey, Albert R., (See Hall, C. G., Devereaux, and Cobey.)
- Coble, Ernest H., Jackson, Mich. Foot-rest. No. 1,396,000; Nov. 1.
- Coblentz, Chancie E., (See Whitcomb, J., and Gray, assignors.)
- Coburn Trolley Track Manufacturing Company, The. (See Ballard, Harry E., assignor.)
- Cochau, Henry G., New York, N. Y. Holder for hacksaw-blades. No. 1,374,822; Apr. 12; v. 285; p. 320.
- Cochet, Laurent, (See Camell, R., Cochet, and Gritte.)
- Cochran, Arthur J., Columbus, Ind. Dauber, polisher, &c. No. 1,384,827; July 19; v. 288; p. 456.
- Cochran, Charles R., Vale, Oreg. Nut-lock. No. 1,373,489; Apr. 5; v. 285; p. 22.
- Cochran, Clyde E., (See Towson, M. S., and Cochran.)
- Cochran, Clyde E., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Industrial truck. No. 1,399,543; Dec. 6.
- Cochran, Clyde E., and M. S. Towson, assignors to The Elwell-Parker Electric Company, Cleveland, Ohio. Industrial truck. No. 1,369,165; Feb. 22; v. 283; p. 590.
- Cochran, Edwin W., Catawba, N. C. Wrench. No. 1,368,900; Feb. 15; v. 283; p. 499.
- Cochran, Edwin W., Catawba, N. C. Wrench. No. 1,395,800; Nov. 1.
- Cochran, Frederic J., Mount Vernon, Ill. Ball-bearing axle. No. 1,382,064; June 21; v. 287; p. 441.
- Cochran, John W., (See Hill, S. F., and Cochran.)
- Cochran, Marshal L., Grand Rapids, Mich. Bench-stool. No. 1,385,903; July 26; v. 288; p. 751.
- Cochran, Merit L., and M. E. Wood, Kansas City, Kans. Rail-joint. No. 1,396,558; Nov. 8.
- Cochran, Ralf S., (See Marsh, H. S., and Cochran.) (Re-issue.)
- Cochrane, Arthur L., Toronto, Ontario, Canada. Clamp. No. 1,364,613; Jan. 4; v. 282; p. 109.
- Cochrane, Arthur L., Toronto, Ontario, Canada. Clamp. No. 1,398,126; Nov. 22.
- Cochrane, Manning W., (See Baker, Robert W., assignor.)
- Cochrane, William F., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Catalyzer apparatus. No. 1,396,358; Nov. 8.
- Cockburn, David and D. MacNicol Cardonald, near Glasgow, Scotland. Engine stop-gear. No. 1,401,239; Dec. 27.
- Cockcroft, Walter, Philadelphia, Pa. Tool-holder. No. 1,368,119; Feb. 8; v. 283; p. 299.
- Cockrill, James H., Oakland, Calif. Vehicle-wheel rim. No. 1,389,937; Sept. 6; v. 290; p. 76.
- Cocks, Frank L., (See Grimm, P. H., Cocks, and Duryea.)
- Cocks, George H., Adrian, Mich. Nut-lock. No. 1,379,394; May 24; v. 286; p. 757.
- Codd, Ambrose W., Spokane, Wash. Reserve supply-tank. No. 1,374,433; Apr. 12; v. 285; p. 245.
- Codd, Ambrose W., Spokane, Wash. Detachable reserve-supply tank. No. 1,400,727; Dec. 20.
- Coddington, Charles L., Sr., Perth, N. Y. Pump. No. 1,381,801; June 14; v. 287; p. 332.
- Coddington, Harry W., Natick, Mass. Valve-spring compressor. No. 1,400,027; Dec. 13.
- Codish, George, Brooklyn, N. Y. Armor for pneumatic tires. No. 1,382,474; June 21; v. 287; p. 519.
- Cody, George F., (See Floriot, E. C., and Cody.)
- Cody, James M., (See Cody, Margaret M., assignor.)
- Cody, Margaret M., assignor of one-half to J. M. Cody, Seattle, Wash. Can opening and protecting device. No. 1,383,600; July 5; v. 288; p. 71.
- Coe, Clyde G., Lawrence, Kans. Fly-swatter. No. 1,399,193; Dec. 6.
- Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Spelter-breaker. No. 1,364,717; Jan. 4; v. 282; p. 129.



## Alphabetical list of patentees—Continued.

- Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Apparatus for handling containers of liquid. No. 1,395,040; Oct. 25.
- Coe, James R., assignor to The American Brass Company, Waterbury, Conn. Scrap-bundling machine. No. 1,395,041; Oct. 25.
- Coen, Castleman, San Francisco, Calif. Controllable torch. No. 1,377,875; May 10; v. 286; p. 343.
- Coengen, Henry, Great Falls, Mont. Can-opener. No. 1,396,254; Nov. 8.
- Coes, Russel R., assignor of one-half to Coes Wrench Company, Worcester, Mass. Making wrench-handles. No. 1,395,222; Oct. 25.
- Coes Wrench Company. (See Coes, Russell R., assignor.)
- Coey, Stewart C., Newark, N. J., assignor to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Magnetic skelp-charging machine. (Reissue.) No. 57,175; Aug. 9; v. 289; p. 366.
- Coffee, James C., Webb City, Mo. Automatic oiler. No. 1,389,489; Aug. 30; v. 289; p. 934.
- Coffelder, Thomas N., Cincinnati, Ohio, assignor, by mesne assignments, to Liberty Radiator Company, Pittsburgh, Pa. Soldering-machine. No. 1,367,018; Feb. 1; v. 283; p. 27.
- Coffelder, Thomas N., Edgewood, assignor to Liberty Radiator Company, Pittsburgh, Pa. Constructing and assembling radiator-cores. No. 1,367,019; Feb. 1; v. 283; p. 27.
- Coffey, Barton H., assignor to Cooling Tower Company, Inc., New York, N. Y. Spray-nozzle. No. 1,367,769; Feb. 8; v. 283; p. 233.
- Coffey, Clifford. (See Dix, H. S., Pryor, and Coffey.)
- Coffey, John, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stitched buttonhole. No. 1,389,027; Aug. 30; v. 289; p. 843.
- Coffield, James L., Dayton, Ohio. Clothes-wringer. No. 1,378,325; May 17; v. 286; p. 480.
- Coffield, Peter T., La Mesa, Calif. Vehicle-tire repairing. No. 1,372,938; Mar. 29; v. 284; p. 818.
- Coffin, Joseph G., Garden City, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Method of and apparatus for making aerofoils and the like. No. 1,386,841; Aug. 9; v. 289; p. 246.
- Coffman, Samuel M., Kansas City, Mo., assignor to The Barbers Electric Specialty Company. Vibratory massaging device. No. 1,391,759; Sept. 27; v. 290; p. 671.
- Coffman, Samuel M., Kansas City, Mo., assignor to The Barbers Electric Specialty Company. Barber's appliance. No. 1,396,507; Nov. 8.
- Cofrode, Parker, Johnstown, Pa. Automobile-driver's armrest. No. 1,374,907; Apr. 19; v. 285; p. 399.
- Coggon, John E., Viola, Wis. Extricating device for motor-vehicles. No. 1,379,585; May 24; v. 286; p. 793.
- Cogsdill, Stuart A., Detroit, Mich. Forming cutting-tools. No. 1,379,853; May 31; v. 286; p. 917.
- Cogswell, Leander A., assignor to Lacene Manufacturing Company, Manchester, N. H. Automatic gate-controlling and marker-tripping mechanism. No. 1,366,889; Jan. 25; v. 282; p. 681.
- Cohagen, Donald E. (See Frohmuth, W. J., and Cohagen.)
- Cohagen, William, *et al.* (See Trembley, Lou J., assignor.)
- Cohan, Charles. (See Herschede, Walter J., and Cohan.)
- Cohan-Epner Co. (See Jaroll, Louis, assignor.)
- Cohane, Sylvester T., Hartford, Conn. Forceps. No. 1,376,005; Apr. 26; v. 285; p. 641.
- Cohen, Abraham, St. Louis, Mo. Shoe-heel. No. 1,394,712; Oct. 25.
- Cohen, Amelia B., administratrix. (See Cohen, Bernard.)
- Cohen, Antoinette A., Birmingham, Mich. Trolley-retriever. No. 1,375,034; Apr. 19; v. 285; p. 424.
- Cohen, Benjamin P., Augusta, Ga. Pneumatic and hydraulic clamp. No. 1,400,801; Dec. 20.
- Cohen, Bernard, deceased; A. B. Cohen, administratrix, New York, N. Y. Fur button. No. 1,364,718; Jan. 4; v. 282; p. 129.
- Cohen, Bertram S., Twickenham, assignor to The Relay Automatic Telephone Company, Limited, Strand, England. Telephone system. No. 1,381,703; June 14; v. 287; p. 314.
- Cohen, George, executors. (See Cohen, Mortimer J.)
- Cohen, Jacob, Philadelphia, Pa. Sewing-machine attachment. No. 1,385,904; July 26; v. 288; p. 751.
- Cohen, Joseph L., New York, N. Y. Vehicle-wheel. No. 1,389,629; Sept. 6; v. 290; p. 14.
- Cohen, Joseph L., New York, N. Y. Vehicle-wheel. No. 1,389,938; Sept. 6; v. 290; p. 77.
- Cohen, L. Louis. (See Gillies, William R., assignor.)
- Cohen, Leo, Mount Vernon, N. Y. Detachable indicator for merchandise. No. 1,397,079; Nov. 15.
- Cohen, Louis, Washington, D. C. Method and apparatus for duplex cable-signaling. No. 1,371,471; Mar. 15; v. 284; p. 437.
- Cohen, Milton, New York, N. Y. Dental instrument. No. 1,400,028; Dec. 13.
- Cohen, Max, assignor of one-half to J. Rosenstock, New York, N. Y. Gas-stove. No. 1,373,303; Mar. 29; v. 284; p. 890.
- Cohen, Max, assignor of one-half to J. Rosenstock, New York, N. Y. Refrigerator. No. 1,380,190; May 31; v. 286; p. 981.
- Cohen, Mortimer J. (See Ellis, C., and Cohen.)
- Cohen, Mortimer J., deceased; G. Cohen, A. Breslauer, and H. Asher, executors, assignors, by mesne assignments, to S. B. Hunt, trustee, New York, N. Y. Purifying alcoholic material. No. 1,365,047; Jan. 11; v. 282; p. 237.
- Cohen, Philip, Elizabeth, N. J. Blotting device. No. 1,365,457; Jan. 11; v. 282; p. 316.
- Cohen, Samuel. (See Keenan, Thomas, assignor.)
- Cohen, Samuel B., New York, N. Y. Switch. No. 1,370,189; Mar. 1; v. 284; p. 82.
- Cohen, William E. (See Krechmer, H. H., and Cohen.)
- Cohill, James A., Hancock, Md. Barrel-press. No. 1,373,055; Mar. 29; v. 284; p. 840.
- Cohn, Aaron, Toronto, Ontario, Canada. Thinning-machine. No. 1,367,656; Feb. 8; v. 283; p. 211.
- Cohn, Charles C., assignor to I. B. Kleinert Rubber Company, New York, N. Y. Display-card. No. 1,394,537; Oct. 25.
- Cohn, Irwin, Stroudsburg, assignor to Ekeloid Company of Pennsylvania, East Stroudsburg, Pa. Soap-bubble pipe. No. 1,389,098; Aug. 30; v. 289; p. 857.
- Conn, Jacob, Cleveland, Ohio. Universal thread-stand. No. 1,367,685; Feb. 8; v. 283; p. 216.
- Cohn, Max, Chicago, Ill. Toilet accessory. No. 1,370,950; Mar. 8; v. 284; p. 272.
- Cohn, Nathan L., Chicago, Ill. Electric-lamp hanger. No. 1,368,239; Feb. 15; v. 283; p. 370.
- Cohoes Envelope Co. (See Kleebauer, Charles P., assignor.)
- Cola, James, Ravenna, Ohio. Time-controlled mechanism for graphophones. No. 1,375,279; Apr. 19; v. 285; p. 471.
- Coil, Lucy S., Nevada, Mo. Mattress-holder for invalid-beds. No. 1,384,600; July 12; v. 288; p. 328.
- Coil, William D., Madisonville, Ky. Air-pump. No. 1,377,752; May 10; v. 286; p. 318.
- Coin Device and Signal Co. (See Drew, Harry A., assignor.)
- Cokely, George A., and M. D. Crawford, Garrett, Pa. Switch-lock. No. 1,396,095; Nov. 8.
- Colabrese, Francesco, Albert, W. Va. Trolley-wire protector. No. 1,398,005; Nov. 22.
- Colas, Joseph E., and E. L. M. Ragonot, Paris, France. Indicating, recording, and controlling device actuated by an electric current. No. 1,391,321; Sept. 20; v. 290; p. 510.
- Colbert, Clarence F., Hoopeston, assignor to Sprague Canning Machinery Company, Chicago, Ill. Can feeding and righting machine. No. 1,393,947; Oct. 18.
- Colbert, George F. and W. H., Pittsburgh, Pa. Mirror-support. No. 1,392,481; Oct. 4.
- Colbert, William H. (See Colbert, George F. and W. H.)
- Colburn, Albert L., New Haven, Conn. Direct-reading micrometer-caliper. No. 1,389,028; Aug. 30; v. 289; p. 843.
- Colburn, Irving W., Toledo, Ohio, assignor, by mesne assignments, to The Libbey-Owens Sheet Glass Company, Process and apparatus for drawing sheet-glass. No. 1,394,809; Oct. 25.
- Colburn, Jay C., Webster City, Iowa. Direction indicator or signal for motor-vehicles and the like. No. 1,375,628; Apr. 19; v. 285; p. 537.
- Colburn Machine Tool Company. (See Head, Ernest C., assignor.)
- Colby, Christian M., Minneapolis, Minn. Dish-washing tool. No. 1,401,878; Dec. 27.
- Colby, Clarence L., Omaha, Nebr. Hatchway-door-operating mechanism. No. 1,375,827; Apr. 26; v. 285; p. 606.
- Colby, Ernest L., Pueblo, Colo. Spark-plug. No. 1,374,281; Apr. 12; v. 285; p. 215.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. No. 1,367,124; Feb. 1; v. 283; p. 48.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Induction liquid-heater. No. 1,367,125; Feb. 1; v. 283; p. 48.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric air-heater. No. 1,396,813; Nov. 15.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Induction-heater. No. 1,401,673; Dec. 27.
- Colby, Ora A., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric glass-annealing furnace. No. 1,401,674; Dec. 27.
- Cold Light Manufacturing Company, The. (See Erdle, Reiner W., assignor.)
- Coldby, Alex V. (See Mayer, G. K., Andrews, and Coldby.)
- Cole, Albert E., London, England. Sliding seat for motor-cars and the like. No. 1,383,077; June 28; v. 287; p. 688.
- Cole, Albert L., Auburndale, Mass. Demountable rim. No. 1,376,404; May 3; v. 286; p. 5.
- Cole, Albert L., Auburndale, Mass. Demountable rim of motor-cars and the like. No. 1,377,058; May 3; v. 286; p. 129.
- Cole, Albion F., Brockton, Mass. Interior decoration. No. 1,388,518; Aug. 23; v. 289; p. 688.
- Cole, Albion F., Brockton, Mass. Interior decorative finish. No. 1,399,336; Dec. 6.
- Cole, Arthur D. (See Geiger, David F., assignor.)
- Cole, Arthur D., St. Paul, Minn., assignor, by mesne assignments, to E. R. Campbell, New York, N. Y. Tractor-engine. No. 1,372,338; Mar. 22; v. 284; p. 660.



- Cole, Arthur J., Saginaw, Mich. Knockdown crato. No. 1,368,606; Feb. 15; v. 283; p. 442.
- Cole, Charles A. (See Kopley, E. K., and Cole.)
- Cole, Charles L., Milford, Utah. Tie-straightener. No. 1,379,801; May 31; v. 286; p. 908.
- Cole, David, Morenci, Ariz., assignor to Minerals Separation North American Corporation, New York, N. Y. Apparatus for separating or concentrating ores. No. 1,375,211; Apr. 19; v. 285; p. 458.
- Cole, David, and J. Bergman, El Paso, Texas. Method and plant for storing and averaging materials. No. 1,389,184; Aug. 30; v. 289; p. 874.
- Cole, Don, assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureter. No. 1,384,429; July 12; v. 288; p. 292.
- Cole, Edward P., Chicago, Ill. Cooking-range. No. 1,392,482; Oct. 4.
- Cole, Elmathan, Los Angeles, Calif. Gas-burner. No. 1,368,120; Feb. 8; v. 283; p. 299.
- Cole, Eugene M., Charlotte, N. C. Twin planter. No. 1,388,171; Aug. 23; v. 289; p. 618.
- Cole, Eugene M., Charlotte, N. C. Duplex planter. No. 1,388,519; Aug. 23; v. 289; p. 688.
- Cole, Eugene M., Charlotte, N. C. Planter. No. 1,398,066; Nov. 22.
- Cole, George H., Wenona, Ill. Washer. No. 1,386,092; Aug. 2; v. 289; p. 26.
- Cole, Hugh A., assignor to Cole Manufacturing Company, Chicago, Ill. Stove. No. 1,387,453; Aug. 16; v. 289; p. 418.
- Cole, Ira L., assignor to Gisholt Machine Company, Madison, Wis. Universally-adjustable work or tool holder. No. 1,399,194; Dec. 6.
- Cole, Isidor M., and B. McKinney, Indianapolis, Ind. Signaling device. No. 1,378,584; May 17; v. 286; p. 530.
- Cole, John A., New York, N. Y. Truck-loader. No. 1,392,916; Oct. 11.
- Cole, John C. (See Brady, James T., assignor.)
- Cole, John W., Stratford, Conn., assignor to American Chain Company, Inc. Bottle-cap extractor. No. 1,379,171; May 24; v. 286; p. 715.
- Cole, Lovell B., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Insulating end plate. No. 1,397,363; Nov. 15.
- Cole Manufacturing Company. (See Cole, Hugh A., assignor.)
- Cole, Perino B., Cambridge, Nebr. Means for storing vehicles. No. 1,378,168; May 17; v. 286; p. 451.
- Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Cartridge-fuse. No. 1,396,731; Nov. 15.
- Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Renewable fuse. No. 1,400,660; Dec. 20.
- Cole, Robert C., assignor to The Johns-Pratt Company, Hartford, Conn. Inclosed fuse. No. 1,400,661; Dec. 20.
- Cole, Robert M., Sandusky, Ohio. Making thymol from nitrocymene. No. 1,378,939; May 24; v. 286; p. 671.
- Cole, Robert M., Sandusky, Ohio. Obtaining a sodium salt from a hydrocarbon monosulfonic acid. No. 1,396,320; Nov. 8.
- Cole, Warren W., Portland, Me. Metal screen. No. 1,396,164; Nov. 8.
- Cole, Warren W., assignor to The E. T. Burrowes Company, Portland, Me. Combined parting-bead and weather-strip. No. 1,393,264; Oct. 11.
- Cole, William H., Newark, N. J. Non-resonant phonograph-cabinet. No. 1,398,626; Nov. 29.
- Cole, William L., Mile End, East London, assignor to Quasi-Arc Company, Limited, London, England. Metal plate structure. No. 1,370,288; Mar. 1; v. 283; p. 101.
- Cole, William L., Mile End, East London, assignor to Quasi-Arc Company, Limited, London, England. Securing attachments to iron or steel plates having hardened surfaces. No. 1,392,300; Oct. 4.
- Coleburn, William J., Beaufort, N. C. Valve for irrigation projects. No. 1,374,358; Apr. 12; v. 285; p. 230.
- Coleman, Arthur B., Gosnells, near Perth, Western Australia, Australia. Shovel, spade, and the like. No. 1,374,061; Apr. 5; v. 285; p. 132.
- Coleman, Charles S., Los Angeles, Calif. Boiler-tube and end-plate connection. No. 1,397,080; Nov. 15.
- Coleman, Clyde J., New Rochelle, assignor to Stern-Coleman Diamond Machine Company, Inc., New York, N. Y. Method and means for holding diamonds during the polishing operation. No. 1,364,353; Jan. 4; v. 282; p. 60.
- Coleman, Edward J., Scranton, Pa. Safety device for screens. No. 1,375,828; Apr. 26; v. 285; p. 607.
- Coleman, Frank A., and J. J. Hoffmann, Denver, Colo. Separator-plate for storage batteries. No. 1,394,279; Oct. 18.
- Coleman, George L., assignor of one-half to R. C. Wilson, Blue Springs, Nebr. Pliers. No. 1,372,278; Mar. 22; v. 284; p. 648.
- Coleman, H. M. (See Brown, George W., assignor.)
- Coleman, Harry H., New York, N. Y., assignor, by mesne assignments, to L. F. Carey, Philadelphia, Pa. Walking doll. No. 1,396,321; Nov. 8.
- Coleman, Herman, assignor of one-half to S. M. Abramovitz, Kansas City, Mo. Air-mixing attachment for auto-engines. No. 1,372,939; Mar. 29; v. 284; p. 819.
- Coleman, James M., and K. F. Nystrom, Montreal, Quebec, Canada. Clasp-brake. No. 1,385,607; July 26; v. 288; p. 692.
- Coleman, Max, Melbourne, Victoria, Australia. Mechanism for automatically operating apparatus at a predetermined time. No. 1,381,543; June 14; v. 287; p. 284.
- Coleman, Patrick J., Bristol, Conn. Radiator heating system. No. 1,386,598; Aug. 9; v. 289; p. 196.
- Coleman, William H., Jackson, Mich. Footrest for registers. No. 1,387,454; Aug. 16; v. 289; p. 418.
- Coles, Harold D. (See Monlon, Basil, assignor.)
- Coles, Henry L., Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y. Composition for the treatment of cast-iron. No. 1,397,404; Nov. 15.
- Coles, Walter H., Troy, Ohio. Overhead irrigating device. No. 1,383,449; July 5; v. 288; p. 40.
- Coles, Wilfred G., assignor to Madison Kipp Corporation, Madison, Wis. Lubricator. No. 1,397,036; Nov. 15.
- Coles, Wilfred G., Madison, Wis. Lubricator. No. 1,397,037; Nov. 15.
- Colestock, Harry H., St. Paul, Minn. Heat retaining and transmitting device. No. 1,372,643; Mar. 22; v. 284; p. 718.
- Coley, Lemuel B. (See Sanford, Thomas H., assignor.)
- Coley, W. L., et al., trustees. (See Kerr, Augustus H., assignor.)
- Coley, William R. (See Schairer, O. S., and Coley.)
- Colgate, William A., Garden City, N. Y. Truck-supported knockdown circle swing. No. 1,400,802; Dec. 20.
- Colgin, Augustus R., New York, N. Y. Inking-roller. No. 1,375,629; Apr. 19; v. 285; p. 537.
- Colgrove, Nelson W., Providence, R. I. Hat. No. 1,378,444; May 17; v. 286; p. 503.
- Collet, Albert, assignor to Societe Maurice et Pierre Collet & Cie., Paris, France. Generating set movable upon rails. No. 1,387,431; Aug. 9; v. 289; p. 363.
- Collet, Mark W. (See Staley, S. S., and Collet.)
- Collett, Herbert E., Philadelphia, Pa. Vegetable-cleaner and the like. No. 1,388,630; Aug. 23; v. 289; p. 709.
- Collette, Clarence C., Amsterdam, N. Y. Paper-clip. No. 1,378,525; May 17; v. 286; p. 519.
- Colley, Thomas R., Bladell, N. Y. Rolls for hot-rolling sheet metal. No. 1,373,950; Apr. 5; v. 285; p. 112.
- Colley, Walter, Calgary, Alberta, Canada. Button. No. 1,400,420; Dec. 13.
- Collie, James H., Birkenhead, England. Multiple-cable gland for bulkheads and the like and plastic filling compound therefor. No. 1,393,089; Oct. 11.
- Collier, Arthur, Brixton, England. Bit and like boring-tools. No. 1,365,660; Jan. 18; v. 282; p. 394.
- Collier, Arthur T., St. Albans, England. Diaphragms for gramophones, phonographs, telephones, and the like. No. 1,385,243; July 19; v. 288; p. 541.
- Collier, Barron G., Incorporated. (See Johnston, Richard A., assignor.)
- Collier, Benjamin P., Albany, Ala. Cotton-chopper. No. 1,391,246; Sept. 20; v. 290; p. 494.
- Collier, David C., San Diego, Calif., assignor to W. M. Sheffield, New York, N. Y. Forming articles of impregnated fiber. No. 1,372,118; Mar. 22; v. 284; p. 617.
- Collier, David R., assignor to Collier-Keyworth Company, Gardner, Miss. Combined school desk and seat. No. 1,389,185; Aug. 30; v. 289; p. 874.
- Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Chair-iron. No. 1,389,186; Aug. 30; v. 289; p. 874.
- Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Chair-iron. No. 1,399,464; Dec. 6.
- Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Stool. No. 1,399,465; Dec. 6.
- Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Chair-iron. No. 1,399,466; Dec. 6.
- Collier, Guy B., Kinderhook, N. Y. Aeroplane-propeller. No. 1,393,753; Oct. 18.
- Collier, Hugh R., Beaumont, Tex. Marine vessel. No. 1,364,719; Jan. 4; v. 282; p. 129.
- Collier, Joseph W., assignor to Arcadia Trailer Corporation, Newark, N. J. Vehicle-train and vehicle. No. 1,391,760; Sept. 27; v. 290; p. 671.
- Collier-Keyworth Company. (See Collier, David R., assignor.)
- Collier, Lester E. (See Starr, N. S., and Collier.)
- Collier, Paul R., Philadelphia, Pa. Headlight for automobiles or other vehicles. No. 1,399,195; Dec. 6.
- Collier, William D., Marco, Fla. Clam-digger. No. 1,387,590; Aug. 16; v. 289; p. 447.
- Collier, William H., Sandusky, Ohio. Starter, lights, and alarm control device for automobiles, &c. No. 1,388,933; Aug. 30; v. 289; p. 824.
- Collier, William R., Mont Belvieu, Tex. Insulator. No. 1,372,940; Mar. 29; v. 284; p. 819.
- Collignon, Armand, assignor to Contenau & Collignon, Paris, France. Casting-machine. No. 1,366,875; Jan. 25; v. 282; p. 678.
- Colling, Alfred S. (See Edwards, C. K., and Colling.)
- Collins, Albert J., Amherst, Nova Scotia, Canada. Submarine rescue craft. No. 1,399,196; Dec. 6.
- Collins, Albert K., Charlotte, N. C. Coin-controlled operating device for vending-machines and the like. No. 1,382,475; June 21; v. 287; p. 519.
- Collins, Archie F. and V. D. Congers, N. Y. Spark-plug. No. 1,401,585; Dec. 27.



## Alphabetical list of patentees—Continued.

- Collins, Arthur L., Santa Cruz, Calif. Flow-indicating device. No. 1,374,359; Apr. 12; v. 285; p. 230.
- Collins, Caleb G., Woodmere, assignor to C. A. Stevens, New York, N. Y. Reduction of ores. No. 1,372,483; Mar. 22; v. 284; p. 687.
- Collins, Caleb G., Woodmere, assignor to C. A. Stevens, New York, N. Y. Treating ore. No. 1,374,434; Apr. 12; v. 285; p. 245.
- Collins, Charles H., West Albany, assignor to S. Sanford & Sons, Inc., Amsterdam, N. Y. Loom for weaving axminster carpets and rugs. No. 1,400,941; Dec. 20.
- Collins, Charles W., Seattle, Wash. Ventilating appliance for clothes-drying machines. No. 1,391,939; Sept. 27; v. 290; p. 707.
- Collins, Clyde R., assignor of one-half to Central Specialty Company, Los Angeles, Calif. Spray-nozzle. No. 1,382,822; June 28; v. 287; p. 639.
- Collins, Cornelius, Burlingame, Calif. Fireproof wall or partition construction. No. 1,368,699; Feb. 15; v. 283; p. 460.
- Collins, Daniel, New York, N. Y. Vehicle-wheel. No. 1,393,504; Oct. 11.
- Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Melting-furnace. No. 1,378,526; May 17; v. 286; p. 519.
- Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Control for electric furnaces and the like. No. 1,391,996; Sept. 27; v. 290; p. 720.
- Collins, Edward P., Chicago, Ill. Elevator. No. 1,371,354; Mar. 15; v. 284; p. 413.
- Collins, Elba O., Chillicothe, Ohio. Dust-cap and sleeve for inflating valve-tubes. No. 1,398,316; Nov. 29.
- Collins, Harry R. (See Barnhurst, H. R., Collins, and Barnhurst.)
- Collins, Harry R. (See Barnhurst, Henry R.)
- Collins, Harry R., Allentown, Pa., assignor to Fuller-Lehigh Company. Pulverizer-mill. No. 1,386,093; Aug. 2; v. 289; p. 27.
- Collins, Henry T. (See Tonkin, E. C., and Collins.)
- Collins, James F., Swissvale borough, Pa. Protective mechanism. No. 1,374,636; Apr. 12; v. 285; p. 285.
- Collins, James H., Harrisburg, Pa. Toy vehicle. No. 1,365,458; Jan. 11; v. 282; p. 316.
- Collins, James H., Harrisburg, Pa. Vehicle. No. 1,385,815; July 26; v. 288; p. 734.
- Collins, James R., Detroit, Mich. Ice-cream measure. No. 1,372,863; Mar. 29; v. 284; p. 803.
- Collins, John, Washington, D. C. Electric switch. No. 1,370,784; Mar. 8; v. 284; p. 241.
- Collins, John F., Philadelphia, Pa. Starter for automobile-engines. No. 1,400,266; Dec. 13.
- Collins, L. E., *et al.* (See Ellis, James H., assignor.)
- Collins, Latheop, Evanston, Ill. Motor-driven utensil. No. 1,372,279; Mar. 22; v. 284; p. 648.
- Collins, Lee A., Louisville, Ky. Method of and apparatus for the reproduction of sounds and motions. No. 1,366,446; Jan. 25; v. 282; p. 592.
- Collins, Nathaniel T., Sacramento, Calif. Internal-combustion engine. No. 1,372,644; Mar. 22; v. 284; p. 718.
- Collins, Ralph E., Indianapolis, Ind. Cylinder-head and manufacturing same. No. 1,386,162; Aug. 2; v. 289; p. 40.
- Collins, Roy V., West Newton, Mass. Switch-operating mechanism. No. 1,394,713; Oct. 25.
- Collins, Thomas E., Chicago, Ill. Door-closer. No. 1,398,317; Nov. 29.
- Collins, Virgil D. (See Collins, Archie F. and V. D.)
- Collins, Walter. (See Brinley, W., and Collins, assignors.)
- Collins, Walter H., Summit, N. J. Reminder. No. 1,395,094; Oct. 25.
- Collins, William H., Meriden, Conn. Broom-holder. No. 1,398,127; Nov. 22.
- Collins, William H., and F. R. Baukbage, Danville, Ill. Safety-signal for motor-vehicles. No. 1,387,355; Aug. 9; v. 289; p. 349.
- Collins, William T., deceased; J. W. De Milly, administrator, Tallahassee, Fla. Perforating and cutting device for multigraphs. No. 1,374,062; Apr. 5; v. 285; p. 132.
- Collinson, Stanley. (See Drevitson, Carl B., assignor.)
- Collis, Raymond E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Stroboscopic system. No. 1,387,240; Aug. 9; v. 289; p. 323.
- Collyer, Louis G. (See Dickinson, J. H., and Collyer.)
- Collier, William A., Marshfield, Oreg. Steam-escape valve for range-boilers, &c. No. 1,401,048; Dec. 20.
- Colman, Howard D., Rockford, assignor, by mesne assignments, to Edgar S. Nethercut, Evanston, Ill. Winders. No. 1,366,447; Jan. 25; v. 282; p. 593.
- Colmar Burner Co. (See Blanchard, George N., assignor.)
- Colmar, Clarence F., San Francisco, Calif. Hydrocarbon-burner. No. 1,365,816; Jan. 18; v. 282; p. 426.
- Colmar, Clarence F., San Francisco, Calif. Gas-generator. No. 1,372,280; Mar. 22; v. 284; p. 649.
- Colomb, Henri, Tavannes, Switzerland. Dial-fastener. No. 1,400,421; Dec. 13.
- Colombani, Colomban. (See Liarsou, J. B. M., and Colombani.)
- Colonial Chemical Corporation. (See Walker, George T., assignor.)
- Colonial Multiphone Corporation. (See Phillips, James J., assignor.)
- Colonna, Rudolph B., Hazleton, Pa. Display-stand. No. 1,387,765; Aug. 16; v. 289; p. 482.
- Colorado Vanadium Corporation. (See Carpenter, A. H., and Baumann, assignors.)
- Colorado Vanadium Corporation, The. (See Carpenter, Arthur H., assignor.)
- Colosimo, Thomas, Gary, Ind. Building-block. No. 1,397,035; Nov. 15.
- Colour Photography Limited. (See Friese-Greene, William, assignor.)
- Colpitts, Edwin H., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling method and system. No. 1,375,675; Apr. 26; v. 285; p. 579.
- Colpitts, Edwin H., East Orange, and H. D. Arnold, Maplewood, N. J., assignors, by mesne assignments, to Western Electric Company, Incorporated. Transmission of intelligence. No. 1,388,450; Aug. 23; v. 289; p. 676.
- Colstad, Charles N., Norfolk Downs, assignor to Masters Manufacturing Company, Boston, Mass. Automobile-lock. No. 1,393,754; Oct. 18.
- Colt, Samuel S., Orange, N. J. Door or window frame. No. 1,369,620; Feb. 22; v. 283; p. 678.
- Colt, Samuel S., Orange, N. J. Holding or tying means for molding apparatus. No. 1,387,766; Aug. 16; v. 289; p. 483.
- Colter, Robert L., Lakeland, Fla. Photographic camera. No. 1,366,876; Jan. 25; v. 282; p. 678.
- Colton, George E. (See Gonzalez, Alvin E., assignor.)
- Columbia Carburetor Company. (See Murphy, Clifford T., assignor.)
- Columbia Chemical Company. (See Dunham, William, assignor.)
- Columbia Chemical Company, *et al.* (See Hyde, Elbert L., assignor.)
- Columbia Fastener Company. (See Neukirchen, Peter, assignor.)
- Columbia Graphophone Manufacturing Company. (See Beadle, George W., assignor.)
- Columbia Graphophone Manufacturing Company. (See De Stubner, Emile, assignor.)
- Columbia Graphophone Manufacturing Company. (See Hinckley, Frank C., assignor.)
- Columbia Graphophone Manufacturing Company. (See Scully, John J., assignor.)
- Columbia Machine & Stopper Co. (See Kendall, Carl W., assignor.)
- Columbia Machine Works & Malleable Iron Co. (See Wensulius, Joseph T., assignor.)
- Columbia Postal Supply Company. (See Slack, John W., assignor.)
- Columbia Railway Signal Company. (See Schooley, E. A., and Wilson, assignors.)
- Columbus Climax Rubber Company, The. (See Card, George G., assignor.)
- Columbus Dental Manufacturing Company. (See Steele, Thomas, assignor.)
- Columbus McKinnon Chain Company, The. (See Stahl, Frank E., assignor.)
- Columbus Oil Engine Company, The. (See Bailly, Louis, assignor.)
- Colven, James M., Yonkers, N. Y., assignor to New York Engineering Company. Steam-boiler. No. 1,394,969; Oct. 25.
- Comas Cigarette Machine Company. (See Schofield, Frederick C., assignor.)
- Combecave, Edmond. (See Harribeay, A., and Combecave.)
- Combellick, William, Gettysburg, S. D. Float-valve. No. 1,379,529; May 24; v. 286; p. 733.
- Combest, Oliver P., Pomona, Calif. Beet-topping attachment for beet-harvesting machines. No. 1,379,530; May 24; v. 286; p. 733.
- Combination Folding Camp Stove Company. (See Higham, John, assignor.)
- Combination Machine Company. (See Peterson, Jonathan, assignor.)
- Combination Machine Company. (See Thom, James C., assignor.)
- Combine, Macklin K. (See Stewart, O. E., and Combine.)
- Comboni, Giuseppe, Milan, Italy. Electric switch. No. 1,383,695; July 5; v. 288; p. 91.
- Combs, Alfonso F., Wilkesboro, N. C. Meat-tendering machine. No. 1,384,991; July 19; v. 288; p. 490.
- Combs, Henry. (See Seel, P. C., Combs, and Kemp.)
- Combs, James M., Akron, assignor of one-half to V. R. Smithfield, Cleveland, Ohio. Resilient cushion for heels. No. 1,398,627; Nov. 29.
- Combs, James M., Akron, assignor of one-half to V. R. Smithfield, Cleveland, Ohio. Inner tube and making same. No. 1,398,940; Nov. 29.
- Combs, William J., Otterbein, Ind. Scoop-board. No. 1,389,860; Sept. 6; v. 290; p. 61.
- Combustion Control Company. (See Potter, Frederick D., assignor.)
- Combustion Engineering Corporation. (See Skelly, John S., assignor.)
- Combustion Engineering Corporation. (See Wagoner, Judson E., assignor.)
- Comeau, Téléphone, assignor of one-half to F. Mofette, Lawrence, Mass. Cushion-tire. No. 1,371,863; Mar. 15; v. 284; p. 512.



*Alphabetical list of patentees—Continued.*

- Comer, L. C., *et al.* (See Stevens, Ransom H., assignor.)  
 Comer, Reuben T., Comer, Ga. Stripping mechanism for traveling flats of carding-engines. No. 1,381,970; June 21; v. 287; p. 424.
- Comina, Peter, Aptos, Calif. Blower device. No. 1,365,459; Jan. 11; v. 282; p. 316.
- Comings, William R., Surrey, England. Valve, faucet, and the like. No. 1,401,879; Dec. 27.
- Comisky, William F., Middletown, Conn. Shuttle. No. 1,378,837; May 24; v. 286; p. 652.
- Comment, Paul, Mulhouse, France. Manufacture of zinc sulfid. No. 1,374,435; Apr. 12; v. 285; p. 246.
- Comment, Paul, assignor to Société de Produits Chimiques Thann et de Mulhouse, Rue de la Merzeau, Mülhausen, Alsace, France. Manufacture of potassium sulfate. No. 1,389,861; Sept. 6; v. 290; p. 61.
- Comment, Paul, assignor to Société de Produits Chimiques de Thann et de Mulhouse, Rue de la Merzeau, Mülhausen, Alsace, France. Manufacture of potassium sulfate. No. 1,389,862; Sept. 6; v. 290; p. 61.
- Commercial Research Company, The. (See Barab, Jacob, assignor.)
- Commercial Research Company, The. (See Eldred, Byron E., assignor.)
- Commercial Savings Bank and Trust Company, The. (See Edwards, George W., assignor.)
- Commons, A. J., *et al.* (See Campbell, W. L., and Straughan, assignors.)
- Commonwealth Company. (See Sheehan, William M., assignor.)
- Commonwealth Brass Corporation. (See Kellum, Charles S., assignor.)
- Commonwealth Chemical Corporation. (See Stockelbach, Frits E., assignor.)
- Commonwealth Steel Company. (See Harlow, Harry B., assignor.)
- Commonwealth Steel Company. (See Howard, Karl S., assignor.)
- Commonwealth Steel Company. (See Pfleger, Harry M., assignor.)
- Commonwealth Steel Company. (See Sheehan, William M., assignor.)
- Commonwealth Steel Company. (See Westlake, Charles T., assignor.)
- Commonwealth Steel Company. (See Woodard, William E., assignor.)
- Compagnie D'Applications Mecaniques. (See Rouanet, Louis, assignor.)
- Compagnie des Forges et Acieries De La Marine et D'Homecourt. (See Rimailho, Emile, assignor.)
- Compagnie Generale D'Electricite. (See Lecoultré, Ernest, assignor.)
- Compagnie Generale de Travaux d'Eclairage et de Force (Anciens Etablissements Clemacón.) (See Vernet, François E. B., assignor.)
- Company Bombrini Parodi-Delfino. (See Ferrari, Fabio, assignor.)
- Compe, Loui, Butte, Mont. Demountable spring-tire. No. 1,378,246; May 17; v. 286; p. 466.
- Composition Machinery Corporation. (See Burroughs, Charles F., assignor.)
- Composite Metal Lath Company, The. (See Le Blanc, Alexis, assignor.)
- Composite Metal Lath Company. (See Nossagk, Frederik, assignor.)
- Compton, James T., Pixley, Calif. Land scraping and leveling machine. No. 1,397,265; Nov. 15.
- Computing Cheese Cutter Company. (See Glassco, Robert C., assignor.)
- Computing Scale Company, The. (See Bryce, James W., assignor.)
- Computing Scale Company, The. (See Hopkinson, Joseph, assignor.)
- Computing Scale Company, The. (See Kepler, George W., assignor.)
- Comrie, Guy, Los Angeles, Calif. Wind-deflector. No. 1,385,485; July 26; v. 288; p. 667.
- Comrie, James Y. McL., Runciman, Auckland, New Zealand. Harrow. No. 1,385,861; July 26; v. 288; p. 743.
- Comstock, Archie R., Mount Kisco, N. Y. Electrical searching-coil. No. 1,401,586; Dec. 27.
- Comstock, Daniel F., Brookline, assignor, by mesne assignments to Technicolor Motion Picture Corporation, Boston, Mass. Method of and device for controlling electric arcs. No. 1,367,352; Feb. 1; v. 283; p. 93.
- Comstock, Daniel F., Brookline, assignor to Kalmus, Comstock & Westcott, Inc., Boston, Mass. Light projection. No. 1,377,184; May 10; v. 286; p. 209.
- Comstock, Daniel F., Brookline, assignor to Kalmus, Comstock & Westcott Incorporated, Boston, Mass. Color cinematography. No. 1,390,983; Sept. 20; v. 290; p. 440.
- Comstock, Francis M., assignor to W. S. Howell and C. D. Bradham, Newbern, N. C. Tobacco-looper. No. 1,376,318; Apr. 26; v. 285; p. 701.
- Comstock, Harry, Sunland, Calif. Pump-jack. No. 1,401,317; Dec. 27.
- Comstock, Ray H., Milwaukee, Wis. Faucet attachment. No. 1,369,621; Feb. 22; v. 283; p. 679.
- Comstock, Roger H., Milford, Conn. Flower-pot handle. No. 1,369,965; Mar. 1; v. 284; p. 40.
- Conant, Franklin N., Newburyport, Mass., assignor, by mesne assignments, to The Chase-Shawmut Company. Renewable fuse. No. 1,392,917; Oct. 11.
- Conant, Frederick W., Conway, Mass. Die. No. 1,399,932; Dec. 13.
- Conant, Roger S. (See Clarin, Werner E., assignor.)
- Conard, Frederick D., Philadelphia, Pa. Washer-securing device. No. 1,376,744; May 3; v. 286; p. 69.
- Conclin, David B., Newport, Ky. Windlass. No. 1,379,084; May 24; v. 286; p. 698.
- Concrete Piling Ltd. (See Leighton, John M., assignor.)
- Concrete Silo Company. (See Pearson, James H., assignor.)
- Condensite Company of America. (See Brown, Kirk, assignor.)
- Conder, Charles M., Camborne, England. Blower and exhaustor for moving air and gas. No. 1,390,237; Sept. 6; v. 290; p. 135.
- Conder, Charles M., and G. T. Vivian, Camborne, England. Crushing-mill of the roller and ring type. No. 1,374,823; Apr. 12; v. 285; p. 320.
- Conder, Charles M., & G. T. Vivian, Camborne, England. Roller-mill for crushing material such as stone or ores. No. 1,383,529; July 5; v. 288; p. 56.
- Conder, Charles M., and G. T. Vivian, Camborne, England. Vibratory-jaw crusher. No. 1,385,244; July 19; v. 288; p. 542.
- Condit, Arthur M., East Orange, N. J. Electric switch. No. 1,369,622; Feb. 22; v. 283; p. 679.
- Condit, Sears B., Jr. (See Burnham, George A., assignor.)
- Condit, Sears B., Jr. (See Schiffer, Daniel M., assignor.)
- Condon, David J., Kenwood Park, Iowa. Emergency vault and safe lock. No. 1,398,628; Nov. 29.
- Condon, Edward T., Jr., Morristown, N. J. Mechanical movement. No. 1,391,997; Sept. 27; v. 290; p. 720.
- Condon, Ernest L., Medway, assignor to United Soda Fountain Company, Boston, Mass. Pump. No. 1,385,307; July 19; v. 288; p. 553.
- Condon, Ernest L., Medway, assignor to United Soda Fountain Company, Boston, Mass. Combined cover and ladle. No. 1,391,371; Sept. 20; v. 290; p. 519.
- Condon, William A., Chatham, N. J. Motion-picture apparatus. No. 1,390,763; Sept. 13; v. 290; p. 334.
- Condry, Martin H., Detroit, Mich. Cushion-tire. No. 1,372,669; Mar. 29; v. 284; p. 764.
- Cone Bag Company, The. (See Goodell, William, assignor.)
- Cone, Joseph D., Montclair, assignor to Ingersoll-Rand Company, Jersey City, N. J. Centrifugal pump. No. 1,385,115; July 19; v. 288; p. 516.
- Coney, Joseph, Bath, assignor of one-half to The Lewis Trust Limited, London, England. Motor-tractor. No. 1,379,901; May 31; v. 286; p. 926.
- Conger, Hiram O., and C. W. McCue, Warren, Ohio. Rail. No. 1,378,767; May 17; v. 286; p. 566.
- Congleton, Osborn, deceased, by J. T. Lewis, Yonkers, N. Y., executor. Filter apparatus. No. 1,372,119; Mar. 22; v. 284; p. 617.
- Congoleum Company. (See Jackson, Ralph G., assignor.)
- Congreve, William, Cheltenham, England. Preparation for the teeth. No. 1,379,744; May 31; v. 286; p. 897.
- Conhaim, Fred, Cleveland, Ohio. Folding bed. No. 1,366,521; Jan. 25; v. 282; p. 607.
- Conill, Enrique J. (See Rogers, Clarence T., assignor.)
- Conklin, John E., Tuscarora, N. Y. Vine-lifting attachment for harvesting-machines. No. 1,388,407; Aug. 23; v. 289; p. 666.
- Conklin, Oliver E., Boston, Mass. Headlight-lens. No. 1,399,749; Dec. 13.
- Conklin, Oliver F., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Distributor device for ignition apparatus. No. 1,372,065; Mar. 22; v. 284; p. 607.
- Conklin, Oliver F., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Lock for switches and the like. No. 1,391,940; Sept. 27; v. 290; p. 708.
- Conklin, Oliver F., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Regulating system for dynamo-electric machines. No. 1,400,501; Dec. 13.
- Conklin, Oliver F., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Regulating device for dynamo-electric machines. No. 1,401,049; Dec. 20.
- Conklin Pen Manufacturing Company, The. (See Johnson, Clifford N., assignor.)
- Conklin Pen Manufacturing Company, The. (See Luck, Charles A., assignor.)
- Conklin, William F., Tarentum, Pa. Clamp. No. 1,390,087; Sept. 6; v. 290; p. 107.
- Conkling, Cloud C., Buffalo, deceased; L. C. Conkling, executrix, assignor to Lackawanna Steel Company, Lackawanna, N. Y. Reinforcing-bar for concrete. No. 1,364,182; Jan. 4; v. 282; p. 26.
- Conkling, De Witt C., New York, N. Y., assignor to Pioneer Engineering Corporation of New York. Portable electric lamp. No. 1,368,700; Feb. 15; v. 283; p. 461.
- Conkling, Lucile C., executrix. (See Conkling, Cloud C.)
- Conkling, Marion E. and E. E. Bushell, Lawton, Okla. Dispensing-machine. No. 1,384,687; July 12; v. 288; p. 347.
- Conlan, David, Jr., Brooklyn, N. Y. Electrical apparatus. No. 1,400,803; Dec. 20.



*Alphabetical list of patentees—Continued.*

- Conlan, George A., assignor of one-half to A. C. Thompson, Toronto, Ontario, Canada. Mattress and the like. No. 1,393,755; Oct. 18.
- Conley, Albert D., and E. C. Stillwell, assignors to J. P. Hooper, Baltimore, Md. Treating regenerated cellulose articles. No. 1,371,300; Mar. 15; v. 284; p. 402.
- Conley, Edwin J., New York, N. Y. Package and forming the same. No. 1,398,840; Nov. 29.
- Conley Roll Co., The. (See Sweeney, Bernard J., assignor.)
- Conley Roll Company, The. (See Blaetz, Harry M., assignor.)
- Conley, George B., Cleveland, Ohio. Baby-jumper. No. 1,384,181; July 12; v. 288; p. 240.
- Conley, John M., Stockton, Calif. Revolving self-dumping leveler. No. 1,373,799; Apr. 5; v. 285; p. 81.
- Conley, John M., Stockton, Calif. Scraper. No. 1,377,561; May 10; v. 286; p. 282.
- Conley, Lafayette H., Sault Ste. Marie, Mich. Heelless sock. No. 1,384,828; July 19; v. 288; p. 456.
- Conlon, John, Plattsburg, N. Y. Radiator for automobile cooling systems. No. 1,398,176; Nov. 22.
- Conlon, Walter J. (See Diener, John A., assignor.)
- Conlon, Walter J., Chicago, Ill. Clothes-wringer. No. 1,375,130; Apr. 19; v. 285; p. 442.
- Conn, C. G. Ltd. (See Gulick, Edward J., assignor.)
- Connecticut Aircraft Company. (See Smith, Charles F., assignor.)
- Connecticut Aircraft Company. (See Smith, Rexford M., assignor.)
- Connecticut Aircraft Company. (See Smyth, Charles F., assignor.)
- Connecticut Electric Clock Company, The. (See Greenleaf, William H., assignor.)
- Connecticut Electric Manufacturing Company, The. (See Slady, Frank W., assignor.)
- Connecticut Lock Company, The. (See Laski, Antony, assignor.)
- Connecticut Telephone & Electric Co., The. (See Donle, Harold P., assignor.)
- Connecticut Telephone & Electric Company, The. (See Livingston, Stanley D., assignor.)
- Connecticut Telephone & Electric Company. (See Stahl, Charles E., assignor.)
- Connecticut Tool and Engineering Company, The. (See Matthews, Frank E., assignor.)
- Connecticut Valley Manufacturing Company, The. (See Hayden, Louis S., assignor.)
- Connecticut Web and Buckle Company, The. (See Brannigan, George T., assignor.)
- Connell, Andrew J., College Point, N. Y., assignor, by mesne assignments, to The Central Metal Products Corporation. Film-reel. No. 1,391,372; Sept. 20; v. 290; p. 519.
- Connelly, Douglas L., Leonia, N. J., assignor to W. L. Fleisher & Co., Inc., New York, N. Y. Nozzle. No. 1,401,880; Dec. 27.
- Connelly, Morton B. (See Pelamorgue, Henri C., assignor.)
- Conner, Albert W., Falls City, Nebr. Key-ring. No. 1,373,867; Apr. 5; v. 285; p. 95.
- Conner, Charles E., Auburn, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J. Assembling-machine. No. 1,382,762; June 28; v. 287; p. 628.
- Conner, Charles E., Auburn, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,382,763; June 28; v. 287; p. 628.
- Conner, Edward A., Bridgeport, Conn., assignor to American Chain Company, Inc. Antislipping shoe for horses. No. 1,380,705; June 7; v. 287; p. 72.
- Conner, Eli T., administrator. (See Conner, Harry M.)
- Conner, Fayette M. (See Hoffman, Harry T., assignor.)
- Conner, George W., Roslindale, Mass. Fuse or cut-out. No. 1,396,255; Nov. 8.
- Conner, Harrison W., Boston, Mass., assignor to Tonneau Shield Co. Inc., New York, N. Y. Windshield for automobiles. No. 1,364,834; Jan. 4; v. 282; p. 151.
- Conner, Harry M., deceased, by E. T. Conner, administrator, Scranton, Pa. Rear-loading scoop. No. 1,394,067; Oct. 18.
- Conner, Joseph A., Santa Clara, Calif. Nut-huller. No. 1,388,026; Aug. 16; v. 289; p. 532.
- Connors, Edward R., assignor to The Precision Truing Machine & Tool Company, Cincinnati, Ohio. Grinding-wheel-truing tool. No. 1,383,601; July 5; v. 288; p. 71.
- Connors, Edward R., Covington, Ky., assignor to The Precision Truing Machine and Tool Company, Cincinnati, Ohio. Device for truing and dressing grinding-wheels. No. 1,395,391; Nov. 1.
- Connors, Edward R., assignor to The Precision Truing Machine and Tool Company, Cincinnati, Ohio. Device for truing and dressing grinding-wheels. No. 1,395,392; Nov. 1.
- Connors, Edward R., assignor to The Precision Truing Machine and Tool Company, Cincinnati, Ohio. Mechanism for truing and dressing grinding-wheels. No. 1,395,393; Nov. 1.
- Connors, Edward R., assignor to The Precision Truing Machine and Tool Company, Cincinnati, Ohio. Mechanism for truing and dressing grinding-wheels. No. 1,395,394; Nov. 1.
- Connors, Harry A., Cincinnati, Ohio. Exhaust-valve for radiators. No. 1,390,503; Sept. 13; v. 290; p. 281.
- Connolly, Arthur, and J. W. McCoy, Waterloo, Iowa. Antiskid-armor for pneumatic tires. No. 1,371,019; Mar. 8; v. 284; p. 285.
- Connolly, Charles M., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Collar-display form. No. 1,395,557; Nov. 1.
- Connolly, James J. (See Huff, William D., assignor.)
- Connolly, John R. (See Jepsen, J., and Connolly.)
- Connolly, John T., Billings, Mont. Rig or connection for stirrup leathers or straps. No. 1,371,020; Mar. 8; v. 284; p. 286.
- Connolly, Martin P., assignor of one-half to F. Bernhardt and one-fourth to E. M. Wood, Parkersburg, W. Va. Typewriter-cabinet. No. 1,364,917; Jan. 11; v. 282; p. 212.
- Connolly, Patrick, New York, N. Y. Snow-melting apparatus. No. 1,388,027; Aug. 16; v. 289; p. 533.
- Connolly, Peter F., Chicago, Ill. Combined insulated stem and joint. No. 1,377,318; May 10; v. 286; p. 236.
- Connor, George H., St. Louis, Mo. Portable piercing device. No. 1,398,419; Nov. 29.
- Connor, George J., Toronto, Ontario, Canada. Stocking. No. 1,388,098; Aug. 16; v. 289; p. 547.
- Connor, Herschel M. (See Craig, C. F., and Connor.)
- Connor, Robert D., Withington, Manchester, England. Method and apparatus for drawing wire. (Reissue.) No. 15,205; Oct. 11.
- Connor, Robert D., and R. P. Slinger, Manchester, England. Apparatus for setting the dies of wire-drawing machines. No. 1,367,686; Feb. 8; v. 283; p. 216.
- Connor, Thomas F., Decorah, Iowa. Wrench. No. 1,391,461; Sept. 20; v. 290; p. 538.
- Connors, Frederick P., Montreal, Quebec, Canada. Vehicle-jack. No. 1,399,691; Dec. 6.
- Connstein, Wilhelm, Berlin, and K. Lüdecke, Wilmersdorf, near Berlin, Germany. Manufacturing of propantrol from sugar. No. 1,368,023; Feb. 8; v. 283; p. 280.
- Conomos, Van, Blairsville, Pa., Telephone-mouthpiece. No. 1,385,862; July 26; v. 288; p. 743.
- Conord, Eugene L., assignor to Elizabeth Auto Parts Manufacturing Company, Elizabeth, N. J. Transmission device. No. 1,390,764; Sept. 13; v. 290; p. 334.
- Conover, Courtney, Philadelphia, Pa. Liquid-container. No. 1,398,841; Nov. 29.
- Conover, George W., Chicago, Ill. Dish-washing machine. No. 1,365,382; Jan. 11; v. 282; p. 801.
- Conover, Ralph, and L. Hull, Terre Haute, Ind. Circuit-closer for musical instruments. No. 1,390,984; Sept. 20; v. 290; p. 440.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting mechanism for gas-engines. No. 1,370,005; Mar. 1; v. 284; p. 48.
- Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting mechanism for automobiles. No. 1,385,983; Aug. 2; v. 289; p. 4.
- Conrad, George A., Detroit, Mich. Fuse-cartridge. No. 1,377,398; May 10; v. 286; p. 251.
- Conrad, George E., Stillwater, Minn. Fuse. No. 1,367,179; Feb. 1; v. 283; p. 59.
- Conrad, George E., Stillwater, Minn. Steering mechanism for trailers. No. 1,385,667; July 26; v. 288; p. 704.
- Conrad, Isiah, Columbus, Ohio. Direction-signal. No. 1,390,670; Sept. 13; v. 290; p. 316.
- Conrad, Leslie D., Olympia, Wash. Mailing-container. No. 1,364,918; Jan. 11; v. 282; p. 212.
- Conrad, Nicholas J., assignor to Schweitzer & Conrad, Chicago, Ill. Method of and means for switching. No. 1,393,344; Oct. 11.
- Conrad, Nicholas J., assignor to Schweitzer & Conrad, Chicago, Ill. Protecting device for electric circuits. No. 1,401,881; Dec. 27.
- Conrad, Winfield W., Norristown, Pa. Apparatus for burning pulverized fuel. No. 1,370,091; Mar. 1; v. 284; p. 64.
- Conrader, Rudolph, Erie, Pa. Electric controlling device. No. 1,368,323; Feb. 15; v. 283; p. 387.
- Conradson, Conrad M., Madison, Wis. Planer-platen guideway and bearing. No. 1,367,802; Feb. 8; v. 283; p. 239.
- Conradson, Conrad M. and P., Madison, Wis. Paper towel. No. 1,384,515; July 12; v. 288; p. 310.
- Conradson, Prentice. (See Conradson, Conrad M. and P.)
- Conroy, J. Stanley. (See Mayerson, Abi, assignor.)
- Conroy, Thomas. (See Vine, Jerry T., assignor.)
- Consolidated Car-Heating Company. (See Hynes, Lee P., assignor.)
- Consolidated Car-Heating Company. (See Oakley, George E., assignor.)
- Consolidated Dental Manufacturing Company. (See Bishop, Charles B., assignor.)
- Consolidated Expanded Metal Company. (See Herbest, Thomas R., Jr., assignor.)
- Consolidated Expanded Metal Companies. (See Quinn, Joseph J., assignor.)
- Consolidated Expanded Metal Company. (See Redding, Edward T., assignor.)
- Consolidated Mining & Smelting Company of Canada. (See Lee, F. E., McCallum, and Blaylock, assignors.)
- Consolidated Mining & Smelting Company of Canada, The. (See Thom, C., Diamond, and Blaylock, assignors.)



- Consolidated Paper and Box Manufacturing Company. (See Kusterer, Aloysius J., assignor.)
- Consolidated Press Company. (See Heath, L. W., and Cook, assignor.)
- Consolidated Wafer Company. (See Halset, Christ, assignor.)
- Constable, Frances M., Columbus, Ohio. Curtain-stretcher. No. 1,365,584; Jan. 11; v. 282; p. 341.
- Constant, Napoleon, Manchester, N. H. Bearing. No. 1,389,127; Aug. 30; v. 289; p. 862.
- Constantin, Antone, New York, N. Y. Insecticide. No. 1,390,088; Sept. 6; v. 290; p. 107.
- Constantine, Henry A., Niagara Falls, N. Y. Wet-machine. No. 1,380,637; June 7; v. 287; p. 59.
- Constantinesco, George, Weybridge, England. Actuating speed-indicating devices, governors, and other devices from rotating shafts. No. 1,386,925; Aug. 9; v. 289; p. 263.
- Constantinesco, George, Weybridge, assignor of one-half to W. Haddon, London, England. Power-driven reciprocating implement and means for driving the same. No. 1,372,941; Mar. 29; v. 284; p. 819.
- Constantinesco, Gogu, Weybridge, assignor of one-half to W. Haddon, London, England. Drill. No. 1,372,942; Mar. 29; v. 284; p. 819.
- Constantinesco, Gogu, Weybridge, assignor of one-half to W. Haddon, London, England. Pump. No. 1,372,943; Mar. 29; v. 284; p. 819.
- Constantinesco, Gogu, Weybridge, assignor of one-half to W. Haddon, London, England. Method and means for actuating gun-triggers. No. 1,372,944; Mar. 29; v. 284; p. 819.
- Container Club, The. (See Malcolmson, James D., assignor.)
- Contant, George C., New York, N. Y., assignor of one-half to J. Decker, Jr., Montclair, N. J. Desiccating-machine. No. 1,371,071; Mar. 8; v. 284; p. 295.
- Conte, Attilio, Buenos Aires, Argentina. Lock. No. 1,376,256; Apr. 26; v. 285; p. 689.
- Conte, Attilio, Buenos Aires, Argentina. Controlling device for locks. No. 1,376,405; May 3; v. 286; p. 5.
- Conte, Attilio, Buenos Aires, Argentina. Safety device for locks. No. 1,391,615; Sept. 20; v. 290; p. 569.
- Conte, James, Desplaines, Ill. Grading and sorting apparatus. No. 1,377,399; May 10; v. 286; p. 252.
- Conte, Omer A., Needham, Mass. Stop-motion for winding-machines. No. 1,364,354; Jan. 4; v. 282; p. 60.
- Contentau & Collignon. (See Collignon, Armand, assignor.)
- Contento, Joseph, Albany, N. Y. Non-slipping sole. No. 1,365,767; Jan. 18; v. 282; p. 416.
- Conti, Francisco, Buenos Aires, Argentina. Automatic balanced rudder for air, water, and submarine craft. No. 1,382,170; June 21; v. 287; p. 461.
- Conti, James T. F., *et al.* (See Cambay, Charles A., assignor.)
- Conti, James T. F. (See Tiranty, P. H. L., and Conti.)
- Conti, Oreste, Viareggio, Italy. Room-calling system for hotels. No. 1,384,182; July 12; v. 288; p. 241.
- Continental Air Craft & Transportation Company. (See Leinweber, Curtis H., W. H., and V. H., and Zemann, assignors.)
- Continental Bolt & Iron Works. (See Faessel, Albert, assignor.)
- Continental Can Company. (See Bratt, C. E., and Fluck, assignors.)
- Continental Can Company. (See Fink, Henry A., assignor.)
- Continental Can Company. (See Kronquest, Alfred L., assignor.)
- Continental Can Company. (See Myhrum, Thomas, assignor.)
- Continental Can Company. (See Robinson, D. P., Coyle, and Kronquest, assignors.)
- Continental Can Company. (See Robinson, Daniel P., assignor.)
- Continental Can Company. (See Taliaferro, John C., assignor.)
- Continental Can Company. (See White, Edwin, assignor.)
- Continental Furniture Manufacturing Company. (See Long, Emil J., assignor.)
- Continental Machinery Co. (See Howell, Claude F., assignor.)
- Continental Motors Corporation. (See Fors, Arthur R., assignor.)
- Continental Motors Corporation. (See Olson, Charles W., assignor.)
- Continental Rubber Works. (See Kelleher, Jeremiah, assignor.)
- Continental Scale Works. (See Weber, Mathias J., assignor.)
- Continental Tractor Company, The. (See Hartman, Noble W., assignor.)
- Continental Tractor Company, The. (See Plettner, O. L., and Lowe, assignors.)
- Contos, John A., assignor of one-half to Nick Jamson, Grand Island, Nebr. Table for automobile-radiators. No. 1,382,626; June 28; v. 287; p. 602.
- Contrado, Fred, Boston; H. R. Swanson, Somerville, and E. M. Schwartz, Cambridge, Mass. Mattress-filling machine. No. 1,370,411; Mar. 1; v. 284; p. 124.
- Controller Company, The. (See Blaustein, Joseph, assignor.)
- Converse, Atherton D., Winchendon, Mass. Collapsible drum. No. 1,377,003; May 3; v. 286; p. 119.
- Converse, Henry, Winona, Miss. Combined feeder and magnetic separator. No. 1,371,301; Mar. 15; v. 284; p. 402.
- Converse, Ray V., Kansas City, Mo. Radiator-drain-valve-operating device. No. 1,368,324; Feb. 15; v. 283; p. 387.
- Converse, Tommy J., Bellingham, Wash. Steam-whistle-operating mechanism. No. 1,396,096; Nov. 8.
- Convert, Linus M., Peoria, Ill. Form-lifter. No. 1,397,241; Nov. 15.
- Convertible Tractor Corporation. (See Day, Herbert O., assignor.)
- Convertible Tractor Corporation. (See Megow, E. J., Day, and Gehan, assignors.)
- Conway, Edward P., Waterbury, Conn. Propeller. No. 1,366,635; Jan. 25; v. 282; p. 631.
- Conway, Frank, Schenectady, N. Y. Combined primer and humidifier for automobile-engines. No. 1,374,436; Apr. 12; v. 285; p. 246.
- Conway, George E., Tenafly, N. J. Internal-combustion engine. No. 1,366,636; Jan. 25; v. 282; p. 631.
- Conway, Roy D., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,383,789; July 5; v. 288; p. 111.
- Conway, Roy D., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,386,689; Aug. 9; v. 289; p. 215.
- Conway, Thomas A. (See Hamilton, Louis D., assignor.)
- Conway, William, Soo, Ontario, Canada. Vehicle running-gear. No. 1,392,118; Sept. 27; v. 290; p. 744.
- Conway, William J., San Francisco, Calif. Truck-loading device. No. 1,393,345; Oct. 11.
- Conwell, Samuel H., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. Metal end structure for railway-cars. No. 1,388,849; Aug. 30; v. 289; p. 807.
- Conwell, Samuel H., and C. W. Court, Chicago, Ill., assignors to W. P. Murphy, New York, N. Y. Railway-car of the gondola type. No. 1,384,183; July 12; v. 288; p. 241.
- Conyngham, William B., Wilkes-Barre, Pa. Sectional gear-wheel. No. 1,391,719; Sept. 27; v. 290; p. 663.
- Conyngham, William B., Wilkes-Barre, Pa. Thread-spinning machine. No. 1,395,223; Oct. 25.
- Coo, Thomas J., Toronto, Ontario, Canada. System of locking automobiles. No. 1,397,484; Nov. 15.
- Cook, Adelbert F., and Lloyd R. Reed, assignors to The W. B. Marvin Manufacturing Company, Urbana, Ohio. Button-setting machine. No. 1,374,360; Apr. 12; v. 285; p. 230.
- Cook, Albert E., Evanston, Ill. Mower and harvesting-machine. No. 1,364,251; Jan. 4; v. 282; p. 39.
- Cook, Albert E., Evanston, Ill. Chain-cutter for reapers. No. 1,397,364; Nov. 15.
- Cook, Albert E., Evanston, Ill. Circular-disk reaper. No. 1,397,365; Nov. 15.
- Cook, Albert E., Chicago, Ill. Auto-marine vehicle. No. 1,364,545; Jan. 4; v. 282; p. 97.
- Cook, Albert E., Chicago, Ill. Mowing attachment for automobiles. No. 1,372,339; Mar. 22; v. 284; p. 660.
- Cook, Albert E., Evanston, and T. Van Tuyt, Kankakee, Ill.; said Van Tuyt assignor to said Cook. Roller-bearing. No. 1,364,252; Jan. 4; v. 282; p. 40.
- Cook, Albert E., Evanston, and T. Van Tuyt, Kankakee, Ill.; said Van Tuyt assignor to said Cook. Automobile tractor attachment. No. 1,386,842; Aug. 9; v. 289; p. 246.
- Cook, Albert E., Evanston, and T. Van Tuyt, Kankakee, Ill.; said Van Tuyt assignor to said Cook. Tractor-tread for pneumatic-tire wheels. No. 1,386,843; Aug. 9; v. 289; p. 247.
- Cook, Albert E., Evanston, and T. Van Tuyt, Kankakee, Ill.; said Van Tuyt assignor to said Cook. Speed-reduction wheel. No. 1,397,366; Nov. 15.
- Cook, Archibald, Mount Vernon, and C. Greenbaum, New York, N. Y. Bracket for display-counters. No. 1,378,400; May 17; v. 286; p. 495.
- Cook, Carson C., Stockton, Calif. Apparatus for tilling the soil. No. 1,390,089; Sept. 6; v. 290; p. 107.
- Cook, Clarence A., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. End clip. No. 1,379,966; May 31; v. 286; p. 939.
- Cook, David J., Tuscarora, Nev. Adjustable bed-rest. No. 1,371,196; Mar. 8; v. 284; p. 319.
- Cook, Edward J., Spokane, Wash. Shelf price-tag holder. No. 1,367,588; Feb. 8; v. 283; p. 198.
- Cook, Edward J., Brainerd, Minn. Merry-go-round. No. 1,386,553; Aug. 2; v. 289; p. 115.
- Cook, Eugene F., Richmond Heights, Mo. Piston. No. 1,389,099; Aug. 30; v. 289; p. 857.
- Cook, Frank, Council Bluffs, Iowa. Coating composition. No. 1,394,280; Oct. 18.
- Cook, Frank B., Company. (See Sands, Roy G., assignor.)
- Cook, Frank C., Washington, D. C. Spray. No. 1,384,304; July 12; v. 288; p. 266.
- Cook, Frank E., Amarillo, Tex. Self-locking grease-plug. No. 1,395,259; Nov. 1.
- Cook, Frank E., Newark, N. Y. Weeder and cutter. No. 1,364,720; Jan. 4; v. 282; p. 130.
- Cook, Frank J., Cleveland, Ohio. Insulating composition of matter. No. 1,393,346; Oct. 11.



*Alphabetical list of patentees—Continued.*

- Cook, Fred W., assignor to Chicago Hardware Foundry Company, North Chicago Ill. Floor-fastening for store-stools. No. 1,380,041; May 31; v. 286; p. 953.
- Cook, Fred W., assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Table or stand. No. 1,380,042; May 31; v. 286; p. 953.
- Cook, G. L., and J. F. Schmitter, assignors to Mack-Miller Candle Company, Syracuse, N. Y. Sanctuary-lamp. No. 1,389,490; Aug. 30; v. 289; p. 935.
- Cook, George R., assignor of one-half to Albert Hoag, Portland, Oreg. Broom. No. 1,372,654; Mar. 22; v. 284; p. 720.
- Cook, George R., assignor of one-half to A. O. Turner and one-half to J. B. F. Dial, Carrollton, Ga. Road scraping, grading, and ditching machine. No. 1,374,824; Apr. 12; v. 285; p. 320.
- Cook, Hubert D. (See Heath, L. W., and Cook.)
- Cook, James A., East Bridgewater, Mass. Street-traffic signal. No. 1,375,280; Apr. 19; v. 285; p. 471.
- Cook, James L., Springfield, Ill. Steering-gear-locking mechanism. No. 1,370,190; Mar. 1; v. 284; p. 82.
- Cook, Joel R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Adjustable mounting for electric motors. No. 1,370,006; Mar. 1; v. 284; p. 48.
- Cook, Joel R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arrangement of connections for dynamo-electric machines. No. 1,387,470; Aug. 16; v. 289; p. 422.
- Cook, Joel R., assignor to The Domestic Electric Company, Cleveland Ohio. Speed-controlling device for motors. No. 1,380,134; May 31; v. 286; p. 971.
- Cook, John P., London, Ontario, Canada. Cap. No. 1,400,528; Dec. 20.
- Cook, Joseph F., San Francisco, Calif. Attachment for farming implements. No. 1,386,456; Aug. 2; v. 289; p. 96.
- Cook, Joseph F., San Francisco, Calif. Trap-nest. No. 1,393,756; Oct. 18.
- Cook, Katherine B., Seattle, Wash. Detachable handle for bags. No. 1,371,548; Mar. 15; v. 284; p. 452.
- Cook, Owen C., King county, Wash. Direction-indicator for automobiles. No. 1,388,550; Aug. 23; v. 289; p. 694.
- Cook, Paul L., Chattanooga, Tenn. Umbrella. No. 1,394,408; Oct. 18.
- Cook, Richard W. (See Funk, Jacques S., assignor.)
- Cook, Robert N., Aspinwall, Pa. Explosive shell. No. 1,367,464; Feb. 1; v. 283; p. 116.
- Cook, Roy J., assignor to G. C. Murray, Chicago, Ill. Draft yoke. No. 1,377,004; May 3; v. 286; p. 119.
- Cook, Roy J., assignor to G. C. Murray, Chicago, Ill. Friction draft-gear. No. 1,379,967; May 31; v. 286; p. 939.
- Cook, Russell M., and B. Grotta, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del. Composition for detonators. No. 1,385,245; July 19; v. 288; p. 542.
- Cook, Samuel E., Spokane, Wash. Baker's oven. No. 1,401,392; Dec. 27.
- Cook, Stanley S. (See Parsons, C. A., and Cook.)
- Cook, Stanley S. (See Parsons, C. A., Cook, and Douglas.)
- Cook, Stanley S. (See Parsons, C. A., Stanley, and Douglas.)
- Cook, Stanley S. (See Parsons, C. A., Cook, Carnegie, Ford, and Bone.)
- Cook, Thomas E., Dallas, Tex. Oil-stove. No. 1,377,753; May 10; v. 286; p. 319.
- Cook, Thomas R., Pittsburgh, assignor to Westinghouse Union Battery Company, Swissvale, Pa. Terminal structure for electric batteries. No. 1,372,603; Mar. 22; v. 284; p. 710.
- Cook, Thomas R., Pittsburgh, assignor to Westinghouse Union Battery Company, Swissvale, Pa. Storage battery. No. 1,388,850; Aug. 30; v. 289; p. 807.
- Cook, Thomas R., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery. No. 1,376,257; Apr. 26; v. 285; p. 689.
- Cook, Thomas W., Berkeley, Calif. Dental-floss holder. No. 1,380,530; June 7; v. 287; p. 39.
- Cook, Ulysses E., Pomona, Calif. Plow. No. 1,388,142; Aug. 16; v. 289; p. 555.
- Cook, Wallace L., Chicago, Ill. Lightning-arrester. No. 1,391,046; Sept. 20; v. 290; p. 453.
- Cook, William A., Brooklyn, N. Y. Reed-organ. No. 1,383,289; July 5; v. 288; p. 6.
- Cook, William E., Minneapolis, Minn. Window-sash-holder. No. 1,364,721; Jan. 4; v. 282; p. 130.
- Cook, William H., Lee, Mass. Lock for cross-chains. No. 1,379,968; May 31; v. 286; p. 939.
- Cook, William H., Los Angeles, Calif. Lubricant-dispensing container. No. 1,387,356; Aug. 9; v. 289; p. 349.
- Cook, William H., Toledo, Ohio. Detonating alarm. No. 1,398,362; Nov. 29.
- Cook, William J., Denver, Colo. Track instrument. No. 1,372,281; Mar. 22; v. 284; p. 649.
- Cook, William J., Charlotte, N. C. Electric-circuit closer. No. 1,382,476; June 21; v. 287; p. 520.
- Cook, William P. (See Baker, H. O., and Cook.)
- Cooke, Charles J., Hong Kong, China. Non-recoil gun for aeroplanes. No. 1,373,381; Mar. 29; v. 284; p. 905.
- Cooke, Charles J., Washington, D. C. Repeating attachment for phonographs. No. 1,373,382; Mar. 29; v. 284; p. 906.
- Cooke, Charles J., Washington, D. C. Non-recoil gun. No. 1,380,358; June 7; v. 287; p. 7.
- Cooke, Frank V., Highland Park, Mich. Vehicle-spring. No. 1,369,009; Feb. 22; v. 283; p. 560.
- Cooke, Frank V., Highland Park, Mich. Nut-locking means. No. 1,398,681; Nov. 29.
- Cooke, George W., Jamaica, N. Y. Faucet. No. 1,378,218; May 17; v. 286; p. 460.
- Cooke, Maurice B., Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Blow-case. No. 1,376,188; Apr. 26; v. 285; p. 676.
- Cooke, Samuel H., and J. O. Miller, Greenville, S. C. Spring-support for looms. No. 1,393,347; Oct. 11.
- Cooke, T., & Sons Limited. (See Harman, Robert, assignor.)
- Cooke, Thomas S. (See Lewis, F. B., and Cooke.)
- Cookingham, Elmyna, Saginaw, Mich. Window safety-catch. No. 1,366,245; Jan. 18; v. 282; p. 509.
- Cookson, William S., Taiping, Perak, Straits Settlements, assignor to L. M. Smith, Manawai, Honolulu, Hawaii. Concentrated coconut-milk and making same. No. 1,374,879; Apr. 12; v. 285; p. 331.
- Cookson, William S., Taiping, Perak, Straits Settlements, assignor to L. M. Smith, Manawai, Honolulu, Hawaii. Coconut food product. No. 1,374,880; Apr. 12; v. 285; p. 332.
- Cooley, Daniel R., Smithers, British Columbia, Canada. Window, door, or porch screen. No. 1,388,801; Aug. 23; v. 289; p. 743.
- Cooley, Frank L., Brooklyn, N. Y. Commutator-brush. No. 1,396,948; Nov. 15.
- Cooley, Fred W., assignor to J. J. Gerber, Minneapolis, Minn. Distributing-spout. No. 1,395,947; Nov. 1.
- Cooley, Henry B., assignor to The American Paper Goods Company, Kensington, Conn. Dispensing apparatus. No. 1,396,995; Nov. 15.
- Cooley, Herbert E., West Bend, Wis. Nailing and tacking machine. No. 1,398,258; Nov. 29.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. X-ray apparatus. No. 1,365,638; Jan. 11; v. 282; p. 351.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. X-ray apparatus. No. 1,394,143; Oct. 18.
- Coolidge, William D., Schenectady, N. Y., and E. A. Wagner, Fort Wayne, Ind., assignors to General Electric Company. Incandescent-cathode apparatus. No. 1,394,144; Oct. 18.
- Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Thermionic discharge apparatus. No. 1,394,145; Oct. 18.
- Cooling, Francis R., Hawthorn, Victoria, Australia. Transposing apparatus for mechanical piano-players. No. 1,364,722; Jan. 4; v. 282; p. 130.
- Cooling Tower Company. (See Coffey, Barton H., assignor.)
- Coombs, Edgar L., assignor of one-half to W. E. Easterbrooks, Providence, R. I. Lacing. No. 1,385,362; July 26; v. 288; p. 641.
- Coombs, James W., assignor of one-half to T. H. Major, Seattle, Wash. Gate-hinge. No. 1,374,437; Apr. 12; v. 285; p. 246.
- Coomer, James J., Hoboken, N. J., assignor to Munson Supply Company, New York, N. Y. Pneumatic cushion for keys. No. 1,397,574; Nov. 22.
- Coon, Austin L., Aurora, Oreg. Safety-hook. No. 1,390,023; Sept. 6; v. 290; p. 94.
- Coon, Leslie E., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Switching system. No. 1,381,451; June 14; v. 287; p. 266.
- Cooney, Albert E., Detroit, Mich., assignor to Dodge Brothers, Automobile-support. No. 1,398,086; Nov. 22.
- Cooney, Charles A., assignor of one-half to R. A. Cooney, Erie, Pa. Method of and apparatus for saturating paper. No. 1,389,630; Sept. 6; v. 290; p. 14.
- Cooney, Richard A. (See Cooney, Charles A., assignor.)
- Coons, Jacob S., Taylorsville, N. C. Row-marker. No. 1,389,491; Aug. 30; v. 289; p. 935.
- Cooper, Abraham, Brooklyn, N. Y. Electric socket-box. No. 1,366,246; Jan. 18; v. 282; p. 510.
- Cooper, Arthur E., Beacon, N. Y. Billiard-cue holder. No. 1,393,265; Oct. 11.
- Cooper, C. A. (See Syfert, William W., assignor.)
- Cooper, Charles A., New York, N. Y. Umbrella-holder. No. 1,392,120; Sept. 27; v. 290; p. 744.
- Cooper, Claude H., Yonkers, N. Y. Kitchenette-cabinet. No. 1,394,146; Oct. 18.
- Cooper, Daniel R., Gore, New Zealand, assignor of one-half to C. W. Anderson and F. L. Howorth, Wellington, New Zealand. Douche. No. 1,401,675; Dec. 27.
- Cooper, David S. (See Croft, Charles L., assignor.)
- Cooper, Edward W., Bowling Green, Ky. Closure for pitchers. No. 1,376,406; May 3; v. 286; p. 6.
- Cooper, Elisha H., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-bearing. No. 1,374,988; Apr. 19; v. 285; p. 414.



*Alphabetical list of patentees—Continued.*

- Cooper, Ellis W., New York, N. Y., assignor to Planographic Equipment Company. Sheet-handling machine. No. 1,364,983; Jan. 11; v. 282; p. 225.
- Cooper, F. H., et al. (See Clifford, F. J., assignor.)
- Cooper, Francis W., and H. Steadworthy, Montreal, Quebec, Canada. Rail-anchor. No. 1,366,558; Jan. 25; v. 282; p. 615.
- Cooper, Francis W., and H. Steadworthy, Montreal, Quebec, Canada. Rail-anchor. No. 1,379,531; May 24; v. 286; p. 783.
- Cooper, Frank. (See Hill, G. C., and Cooper.)
- Cooper, Frank, and G. C. Hill, Seattle, Wash. Cotter-pin extractor. No. 1,382,477; June 21; v. 287; p. 520.
- Cooper, Frederick R. (See McKay, R. J., and Cooper.)
- Cooper, George B. (See Jacobson, Leo, assignor.)
- Cooper, George E., Nashville, Tenn. Baking-oven. No. 1,383,256; June 28; v. 287; p. 722.
- Cooper, George W., London, England. Diaphragm for photographic lenses. No. 1,372,645; Mar. 22; v. 284; p. 718.
- Cooper, Hamilton A., assignor of one-half to C. A. Briggs, Toledo Ohio. Saw-guard. No. 1,379,802; May 31; v. 286; p. 908.
- Cooper, Harry E. (See Faudree, H., and Cooper.)
- Cooper, Henry W., Wilmington, Calif. Corn-cutter. No. 1,367,126; Feb. 1; v. 283; p. 48.
- Cooper, Herbert, Brooklyn, N. Y. Universal joint. No. 1,368,607; Feb. 15; v. 283; p. 442.
- Cooper Hewitt Company. (See Keyes, Frederick G., assignor.)
- Cooper, Howard. (See Van Vleck, P., and Cooper.)
- Cooper, James C., Sr., assignor of one-half to H. M. Wharton, Altoona, Pa. Trolley-harp attachment. No. 1,400,476; Dec. 13.
- Cooper, John A., Callaway, Nebr. Stacker. No. 1,368,121; Feb. 8; v. 283; p. 299.
- Cooper, John J., Stamford, Conn. Exercising apparatus. No. 1,365,460; Jan. 11; v. 282; p. 317.
- Cooper, Joseph H., Chicago, Ill. Fuel-pulverizing apparatus. No. 1,388,551; Aug. 23; v. 289; p. 694.
- Cooper, Joseph H., Chicago, Ill. Apparatus for utilizing lump-fuel. No. 1,396,097; Nov. 8.
- Cooper, Joseph H., Chicago, Ill. Burning comminuted fuel. No. 1,397,266; Nov. 15.
- Cooper, Kenton, Monrovia, Calif. Paper-holder. No. 1,365,383; Jan. 11; v. 282; p. 302.
- Cooper, Lemuel T., Philadelphia, Pa. Piston-ring. No. 1,376,079; Apr. 26; v. 285; p. 656.
- Cooper, Leonard, assignor of one-fourth to T. O. Hickock and one-fourth to F. T. Miller, Syracuse, N. Y. Fuel indicator. No. 1,380,859; June 7; v. 287; p. 7.
- Cooper, Morris L., New York, N. Y. Garment-weight. No. 1,388,802; Aug. 23; v. 289; p. 743.
- Cooper Oven Thermometer Company. (See Whittier, Horace R., assignor.)
- Cooper, Richard B. (See Appleby, Harry D., assignor.)
- Cooper, Robert, London, England. Device for use in disinfecting telephone instruments. No. 1,381,081; June 7; v. 287; p. 146.
- Cooper, Simon. (See Baker, F., Jr., and Cooper.)
- Cooper, Thomas E., Erie, Pa. Game apparatus. No. 1,381,452; June 14; v. 287; p. 266.
- Cooper, Thomas S., Charleston, W. Va., assignor to Kooper Damper Co. Automatic damper. No. 1,370,785; Mar. 8; v. 284; p. 341.
- Cooper, W. Z., et al. (See Clifford, F. J., assignor.)
- Cooper, William F., Norwalk, Ohio. Pump governor mechanism. No. 1,394,887; Oct. 25.
- Cooper, William H. (See Kathcart, Samuel M., assignor.)
- Cooper, William J., Smethwick, England. Blowpipe-burner. No. 1,387,591; Aug. 16; v. 289; p. 447.
- Coopersmith, Rudolph, Montreal, Quebec, Canada, assignor of one-half to A. Ruche, Philadelphia, Pa. Spring-mattress. No. 1,369,325; Feb. 22; v. 283; p. 620.
- Coopersmith, Rudolph, Montreal, Quebec, Canada, assignor of one-half to A. Ruche, Philadelphia, Pa. Spring-mattress. No. 1,382,344; June 21; v. 287; p. 494.
- Coote, William G., East Katanning, Western Australia, Australia. Cream-separator. No. 1,379,532; May 24; v. 286; p. 783.
- Cope, Charles G., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Auxiliary gripper. No. 1,373,868; Apr. 5; v. 285; p. 95.
- Cope, Frank T. (See Baily, T. F., and Cope.)
- Cope, Willard C., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive composition. No. 1,390,671; Sept. 13; v. 290; p. 316.
- Cope, Willard C., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Detonating composition. No. 1,399,104; Dec. 6.
- Copeland, Harry L., Walla Walla, Wash. Moving form for concrete construction. No. 1,393,506; Oct. 11.
- Copeland, James P., Vinemont, assignor of one-half to W. L. Guthrie, Cullman, Ala. Fertilizer-depositor. No. 1,374,881; Apr. 12; v. 285; p. 332.
- Copeland, Joseph F., Drexel Hill, Pa. Drawing-board. No. 1,394,538; Oct. 25.
- Copeland, Percival W., assignor to The Hind & Harrison Plush Co., Clark Mills, N. Y. Pile-fabric frames. No. 1,400,529; Dec. 20.
- Copeland, Robert J. (See Bell, Richard T., assignor.)
- Copeland, Thomas M., Edendale, Auckland, New Zealand. Typewriting-machine. No. 1,376,922; May 3; v. 286; p. 103.
- Copelin, Isaiah W., Toledo, Ohio. Running-board carriers. No. 1,385,308; July 19; v. 288; p. 554.
- Copelin, Leonard S., Millers, Nev. Recovering vanadium. No. 1,381,802; June 14; v. 287; p. 333.
- Copelin, Leonard S., Millers, Nev. Recovering vanadium from solutions. No. 1,392,745; Oct. 4.
- Copelli, Alfred, and F. Albi, Spokane, Wash. Register for firearms. No. 1,397,313; Nov. 15.
- Copeman Development Company. (See Copeman, Lloyd G., assignor.)
- Copeman, Lloyd G., Flint, Mich. Refrigerating apparatus. No. 1,396,996; Nov. 15.
- Copeman, Lloyd G., assignor to Copeman Development Company, Flint, Mich. Grease-cup. No. 1,368,546; Feb. 15; v. 283; p. 431.
- Copeman, Lloyd G., assignor to Copeman Development Company, Flint, Mich. Grease-cup. No. 1,395,336; Nov. 1.
- Copen, Elza H., Akron, Ohio. Shaker. No. 1,391,096; Sept. 20; v. 290; p. 463.
- Copland, James P., assignor to The Metalcraft Company, Cleveland, Ohio. Metal door and partition. No. 1,366,060; Jan. 18; v. 282; p. 473.
- Copland, Peter, Portsmouth, England. Steering and propelling mechanism for boats. No. 1,386,237; Aug. 2; v. 289; p. 55.
- Coplay Cement Manufacturing Company. (See Breerwood, Charles H.)
- Copley, Almon W., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulating system. No. 1,381,283; June 14; v. 287; p. 235.
- Copp, Fred M., Kansas City, Mo. Automobile steering-gear. No. 1,381,402; June 14; v. 287; p. 257.
- Copp, Ralph, St. Louis, Mo. Piston-ring. No. 1,365,640; Jan. 11; v. 282; p. 351.
- Copper Products Company. (See Merritt, Matthew M., assignor.)
- Coppock, Lambert, Lebanon, Oreg. Draft appliance for wagons and the like. (Reissue.) No. 15,180; Aug. 23; v. 289; p. 750.
- Coppola, Francesco, Elmira, N. Y. Car-door. No. 1,401,762; Dec. 27.
- Coppus Engineering and Equipment Company. (See Coppus, Frans H. C., assignor.)
- Coppus, Frans H. C., assignor to Coppus Engineering and Equipment Company, Worcester, Mass. Blower. No. 1,377,400; May 10; v. 286; p. 252.
- Coray, George, Salt Lake City, Utah. Folding cot. No. 1,367,465; Feb. 1; v. 283; p. 116.
- Corbett, George W., assignor to N. A. Nelson and C. O. Wastun, Sioux Falls, S. D. Concrete-column form. No. 1,374,063; Apr. 5; v. 285; p. 133.
- Corbett, James C. (See Barley, W. B., and Corbett.)
- Corbett, James R., assignor to Gleason Board Company, Rochester, N. Y. Extensible supporting device. No. 1,370,732; Mar. 8; v. 284; p. 231.
- Corbett, William A., Winnipeg, Manitoba, Canada. Egg-boiler. No. 1,387,357; Aug. 9; v. 289; p. 349.
- Corbin, B. A., and Son Company. (See Groat, Joseph E., assignor.)
- Corbin, Edmund, Chicago, Ill. Drawing implement. No. 1,381,971; June 21; v. 287; p. 424.
- Corbin, Elbert A., Jr., Glenside, Pa. Heater. No. 1,380,135; May 31; v. 286; p. 971.
- Corbin, Elbert A., Jr., Swarthmore, Pa. Electric lamp and heater. No. 1,394,667; Oct. 25.
- Corbin, Herbert H., and P. Vellema, Grand Rapids, Mich. Clip. No. 1,392,119; Sept. 27; v. 290; p. 744.
- Corbin, John C., Seattle, Wash. Condenser. No. 1,397,621; Nov. 22.
- Corbino, Orso M., Rome, Italy. Transformation of polyphase currents into practically constant direct currents. No. 1,390,504; Sept. 13; v. 290; p. 281.
- Corby, Edward A., Brooklyn, assignor to Tiffany & Co., New York, N. Y. Printing-press gage. No. 1,399,291; Dec. 6.
- Corcoran, Alfred B., Hartford, Conn. Feeding-machine. No. 1,364,723; Jan. 4; v. 282; p. 130.
- Corcoran, Thos. J., Lamp Company, The. (See Kuen, Eugene A., assignor.)
- Corcoran Victor Company, The. (See Reyder, Charles D., assignor.)
- Corcoran-Victor Company, The. (See Smith, William B., assignor.)
- Corcos, Joseph. (See Evans, F., and Corcos.)
- Cordes, Frank, Pittsburgh, Pa. Chill-mold. No. 1,393,666; Oct. 11.
- Cordes, Henry F., Cincinnati, Ohio. Door-holder. No. 1,399,467; Dec. 6.
- Cordes, Henry G. (See Libby, Tyng M., assignor.)
- Cordes, Herman J., San Francisco, Calif. Stop for drawers. No. 1,388,851; Aug. 30; v. 289; p. 807.
- Cordes, Tobias J., San Francisco, Calif. Auto-lift. No. 1,401,463; Dec. 27.
- Cordin, Eric A., and E. C. Stanley, assignors to Black Cat Textiles Company, Kenosha, Wis., and Paramount Knitting Company, Chicago, Ill. Mock-seam-sewing apparatus. No. 1,367,239; Feb. 1; v. 283; p. 71.



## Alphabetical list of patentees—Continued.

- Corer, Charles, Forrest City, Ark. Adjustable bedstead. No. 1,383,907; July 5; v. 288; p. 134.
- Corey, Howard S. (See Boehm, W. Corey, and Lambing.)
- Corey, Matt M., Chicago, Ill. Resilient supporter. No. 1,364,427; Jan. 4; v. 282; p. 74.
- Corey, Walter. (See McLeod, Kenneth K., assignor.)
- Corfield, Herbert, Duncan, British Columbia, Canada. Accelerator connection. No. 1,373,600; Apr. 5; v. 285; p. 43.
- Corington, James W., Faucett, Mo. Breeding-crate. No. 1,396,256; Nov. 8.
- Corington, James W., Faucett, Mo. Automatic doser and self-feeder. No. 1,396,257; Nov. 8.
- Cork, Charles F. (See Remus, W. F., Macredie, and Cork.)
- Corless, Reuben F., College Park, Ga. Inner tube for tires. No. 1,389,815; Sept. 6; v. 290; p. 51.
- Corlett, Robert S., Evanston, assignor, by mesne assignments, to E. E. Berthold and G. W. Berthold, Chicago, Ill., doing business as Berthold Electrical Mfg. Co. Operating mechanism for wash-machines. No. 1,365,461; Jan. 11; v. 282; p. 316.
- Corley, Clifton, Greenville, S. C. Motor-support for spinning-machines. No. 1,364,076; Jan. 4; v. 282; p. 5.
- Corlis, Wilson S., Mount Vernon, N. Y. Sanitary milk-drip catch-basin. No. 1,374,825; Apr. 12; v. 285; p. 321.
- Cormany, Ralph B., and A. F. Herring, Rome, Ga. Combined recorder and register. No. 1,397,502; Nov. 22.
- Corn Products Refining Company. (See Brindle, R. G., and Flint, assignors.)
- Cornel, Henry A., Cochrane, Ontario, Canada. Spike. No. 1,390,275; Sept. 13; v. 290; p. 236.
- Cornelson, Floyd, Milwaukee, Wis. Transmission. No. 1,386,396; Aug. 2; v. 289; p. 85.
- Cornelson, Floyd, Milwaukee, Wis. Vehicle suspension means. No. 1,397,922; Nov. 22.
- Cornelson, Helen R., East Cleveland, Ohio. Cabinet. No. 1,391,462; Sept. 20; v. 290; p. 538.
- Cornelius, Cornelius E., Stockholm, Sweden. Electric rotating furnace. No. 1,396,677; Nov. 8.
- Cornelius, Cornelius E., Stockholm, Sweden. Production of zinc. No. 1,398,006; Nov. 22.
- Cornelius, Louis A., Grand Rapids, Mich. Stopper. No. 1,388,327; Aug. 23; v. 289; p. 650.
- Cornell, Fred, Los Angeles, Calif. Oil service-fountain. No. 1,393,507; Oct. 11.
- Cornell, John M., Seabright, N. J. Protective movable shutter and interlocking slat therefor. No. 1,367,240; Feb. 1; v. 283; p. 71.
- Cornell, John M., Seabright, N. J. Construction of rolling doors, shutters, and curtains. No. 1,392,918; Oct. 11.
- Cornell, Luella, Brooklyn, N. Y. Car-uncoupler. No. 1,367,020; Feb. 1; v. 283; p. 27.
- Cornell, Luella, Brooklyn, N. Y. Operating appliance for angle-cocks for air-hose. No. 1,393,882; Oct. 18.
- Cornell Wood Products Co. (See Morrison, Freeland J., assignor.)
- Corneloup, Joseph, Paris, France. Automatic excavating-bucket. No. 1,385,520; July 26; v. 288; p. 674.
- Corning Glass Works. (See Gage, Henry P., assignor.)
- Corning Glass Works. (See Gray, David E., assignor.)
- Corning Glass Works. (See Rolph, Thomas W., assignor.)
- Corning Glass Works, The. (See Sullivan, E. C., and Taylor, assignors.)
- Corning, Henry W., Cleveland, Ohio. Electric-motor-supporting attachment for sewing-machines. No. 1,383,602; July 5; v. 288; p. 71.
- Cornish, Alice F., Birkenhead, England. Toy aircraft. No. 1,366,164; Jan. 18; v. 282; p. 493.
- Cornish, Oscar B. (See Kinney, Benjamin L., assignor.)
- Cornish, Sidney E., Berkeley, assignor of one-half to H. H. Plummer, San Francisco, Calif. Drying-kiln. No. 1,376,319; Apr. 26; v. 285; p. 701.
- Cornu, Ami, La Chaux-de-Fonds, Switzerland. Clasp. No. 1,364,724; Jan. 4; v. 282; p. 130.
- Cornu, Marie J., Paris, France. Mercury-vapor lamp. No. 1,400,346; Dec. 13.
- Cornwall, Frederick R., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Side-closing plate for grinding-mills. No. 1,377,615; May 10; v. 286; p. 292.
- Cornwall, Frederick R., assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo. Electric switch. No. 1,401,587; Dec. 27.
- Cornwall, Robert W., Cleveland, Ohio. Beam or drum. No. 1,372,484; Mar. 22; v. 284; p. 687.
- Cornwell, Elmer E., and J. H. McCready, Okmulgee, Okla. Gas-burner. No. 1,382,894; June 28; v. 287; p. 653.
- Coron, J. Edouard. (See Lafleur, Sinal, assignor.)
- Corona Typewriter Company. (See Armstrong, Frank H., assignor.)
- Corona Typewriter Company. (See Bridges, L. B., assignor.)
- Corona Typewriter Company. (See de Clamecy, Philippe, assignor.)
- Corona Typewriter Company, Inc. (See Ely, Alonzo B., assignor.)
- Corona Typewriter Company. (See Harmon, Edwin L., assignor.)
- Corona Typewriter Company. (See Petermann, Otto, assignor.)
- Corporation said: Etablissements Jacob Holtzer. (See Vergniaud, Louis, assignor.)
- Corporon, George J., Amesbury, Mass. Method and apparatus for blanching peanuts. No. 1,381,082; June 7; v. 287; p. 146.
- Corrall, Herbert, Helensburgh, Scotland, assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,397,622; Nov. 22.
- Corrall, Herbert, Helensburgh, Scotland, assignor to The Singer Manufacturing Company. Lock-stitch sewing-machine. No. 1,400,141; Dec. 13.
- Corrall, Herbert Helensburgh, and B. A. Stevens, Clydebank, Scotland, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Shuttle-driving mechanism for sewing-machines. No. 1,385,363; July 26; v. 288; p. 641.
- Correia, João N., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,364,725; Jan. 4; v. 282; p. 130.
- Corrigan, Clyde S., Norwood, Ohio. Power-shovel for use in mines to load coal and ore into cars. No. 1,389,421; Aug. 30; v. 289; p. 921.
- Corrigan, Clyde S., Norwood, Ohio. Earth-boring machine. No. 1,396,625; Nov. 8.
- Corrigan, Hugh, Duncan, Okla. Back-up or go-around tong. No. 1,384,688; July 12; v. 288; p. 347.
- Corrigan, Michael J., Calipatria, Calif. Cantaliver-plow. No. 1,384,992; July 19; v. 288; p. 490.
- Corrosion Extraction Company. (See Rankin, Harry D., assignor.)
- Corrow, Thomas, Swampscott, Mass. Lawn-trimming device. No. 1,372,670; Mar. 29; v. 284; p. 764.
- Corry, James A., assignor to T. Birkett, Ottawa, Ontario, Canada. Railway water-closet. No. 1,377,185; May 10; v. 286; p. 209.
- Corsa, Dean, *et al.* (See Smith, Jesse R., assignor.)
- Corser, John W., Los Angeles, Calif. High-speed piston. No. 1,388,552; Aug. 23; v. 289; p. 694.
- Corson, Benjamin I., Minneapolis, Minn. Fire-extinguishing liquid. No. 1,401,240; Dec. 27.
- Corson, William F., Toronto, Ontario, Canada. Machine for printing tubes. No. 1,382,171; June 21; v. 287; p. 461.
- Cortese, Battista, New York, N. Y. Cloth-sponging machine. No. 1,387,836; Aug. 16; v. 289; p. 496.
- Cortese, Michael. (See Levy, W., and Cortese.)
- Cortese, Nicola A., Bovey, Minn. Railway-frog. No. 1,398,420; Nov. 29.
- Corum, Adolphus H., assignor of one-fourth to G. W. Dunlap, one-fourth to T. Boyce, and one-fourth to L. J. Dunlap, St. Louis, Mo. Fuel-agitator. No. 1,395,801; Nov. 1.
- Corvillain y Michel, Ferdinand J., Bilbao, Spain. Mounting for diamond-set tools. No. 1,370,662; Mar. 8; v. 284; p. 218.
- Cory, Charles, & Son. (See Wood, Frank W., assignor.)
- Cory, Marcus M., assignor to Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Machine-tool. No. 1,396,165; Nov. 8.
- Corvelli, Charles N., Mamaroneck, N. Y. Flask. No. 1,398,087; Nov. 22.
- Corvelli, Charles N., Mamaroneck, N. Y. Flask. No. 1,398,088; Nov. 22.
- Corvelli, John, Corvelli, Mich. Multiple-screw jack. No. 1,384,430; July 12; v. 288; p. 292.
- Corvelli, John, Detroit, Mich. Multiple-screw jack. No. 1,396,258; Nov. 8.
- Corvelli, John, Detroit, Mich. Multiple-screw jack. No. 1,396,259; Nov. 8.
- Cosens, Arthur, and T. R. Peden, Vancouver, British Columbia, Canada. Toothbrush. No. 1,369,966; Mar. 1; v. 284; p. 41.
- Cosgray, Mark C., assignor to The Matthews Engineering Company, Sandusky, Ohio. Electric-instrument contact. No. 1,368,785; Feb. 15; v. 283; p. 477.
- Cosgray, Mark C., assignor to Matthews Engineering Company, Sandusky, Ohio. Engine-controller. No. 1,397,503; Nov. 22.
- Cosgrove, A. R. (See Kraft, Edward L., assignor.)
- Cosgrove, Allen R. (See Kraft, Edward L., assignor.)
- Cosgrove, Augustus H. (See Blessington, S. G., and Cosgrove.)
- Cosgrove, John W., Medford, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-fitting machine. No. 1,375,676; Apr. 26; v. 285; p. 579.
- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cementing apparatus. No. 1,377,319; May 10; v. 286; p. 236.
- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating-machine. No. 1,380,360; June 7; v. 287; p. 7.
- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Coating apparatus. No. 1,380,361; June 7; v. 287; p. 7.
- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,388,852; Aug. 30; v. 289; p. 807.
- Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Applying device. No. 1,392,301; Oct. 4.
- Cosmophos-Werke A.-G. (See Boltshauser, Conrad, assignor.)
- Cosmos, George, St. Louis, Mo. Toilet-powder receptacle and brush. No. 1,380,884; June 7; v. 287; p. 107.



- Costello, Frank J., assignor to Federal Tin Company, Inc., Baltimore, Md. Hose-clamp. No. 1,397,943; Nov. 22.
- Costello, Joseph, New York, N. Y. Loss-preventing device. No. 1,387,358; Aug. 9; v. 289; p. 349.
- Costello, Joseph A., Cleveland, Ohio. Art of making hexagonal nut-blanks. No. 1,365,092; Jan. 11; v. 282; p. 245.
- Costello, Thomas J., Warren, Ohio. Pair-heating furnace and operating same. No. 1,378,326; May 17; v. 286; p. 481.
- Costello, Thomas J., Warren, Ohio. Continuous heating-furnace. No. 1,397,367; Nov. 15.
- Costello, Thomas W., San Francisco, Calif. Sponge-rubber cushion-tire. No. 1,371,472; Mar. 15; v. 284; p. 437.
- Costello, Thomas W., San Francisco, Calif. Tire-rim for use on automobiles and other vehicles. No. 1,394,252; Oct. 18.
- Costello, William, Jr., Philadelphia, Pa. Nozzle for cake-coating machines. No. 1,384,601; July 12; v. 288; p. 328.
- Costello, William, Jr., Philadelphia, Pa. Coating-machine. No. 1,394,281; Oct. 18.
- Coster, Helge G. (See Gontrum, H. H., and Coster.)
- Coster, Thomas J. (See Petersen, Peter, assignor.)
- Costmeter Company. (See Quigley, John T., assignor.)
- Cotbush, Nelson C., *et al.* (See Torossian, Gregory, assignor.)
- Cote, Thomas E., Winnipeg, Manitoba, Canada. Fuse-plug. No. 1,381,803; June 14; v. 287; p. 333.
- Cotera, Fernando, Central Feliz, Cuba. Double oil-burner. No. 1,391,047; Sept. 20; v. 290; p. 454.
- Cott-a-lap Co. (See Stirling, Charles, assignor.)
- Cotta Transmission Company. (See Asprooth, Axel H., assignor.)
- Cottard, Jean B., assignor to Société de Moteurs à Gaz et d'Industrie Mécanique, Paris, France. Semidiesel oil-engine. No. 1,392,556; Oct. 4.
- Cotter, John J., Philadelphia, Pa. Vulcanizing device. No. 1,372,799; Mar. 29; v. 284; p. 789.
- Cotterman, Frederick W., Dayton, Ohio, assignor to Spitt-dorf Electrical Company, Newark, N. J. Winding-machine. No. 1,377,808; May 10; v. 286; p. 330.
- Cottman, Richard C., Merced, Calif. Building-wall construction. No. 1,392,402; Oct. 4.
- Cottman, Richard C., assignor of one-half to C. J. Drosch, Merced, Calif. Picking-knife. No. 1,369,326; Feb. 22; v. 283; p. 620.
- Cotton, Alfred, assignor to Heine Safety Boiler Company, St. Louis, Mo. Stack-damper. No. 1,395,395; Nov. 1.
- Cotton, Arthur L., Sayre, Pa. Surgical splint. No. 1,389,741; Sept. 6; v. 290; p. 36.
- Cotton, Charles S., Crafton, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Passenger-car construction. No. 1,381,284; June 14; v. 287; p. 235.
- Cotton, James H. (See Burner, W. L., and Cotton.)
- Cotton, James H. (See Martin, C. C., and Cotton.)
- Cotton, Lee J., De Quincy, La. Safety switch lever and lock. No. 1,375,035; Apr. 10; v. 285; p. 424.
- Cotton, Walter H., Chicago, Ill. Stock-tank. No. 1,383,530; July 5; v. 288; p. 56.
- Cotton, Walter H., and C. H. Kehm, Chicago, Ill. Vent for steam-radiators. No. 1,365,768; Jan. 18; v. 282; p. 416.
- Cotton, Wiley D., Dardanelle, Ark. Means for curing sweet potatoes. No. 1,388,328; Aug. 23; v. 289; p. 650.
- Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)
- Cottrell, Edgar H., Westerly, R. I. Newspaper. No. 1,387,837; Aug. 16; v. 289; p. 497.
- Cottrell, Edgar H., Westerly, R. I. Newspaper. No. 1,387,838; Aug. 16; v. 289; p. 497.
- Cottrell, James W., Hammon, N. J. Traction-wheel. No. 1,383,078; June 28; v. 287; p. 688.
- Couaillet, Armand, St. Ouen, and P. Dussol, Paris, France. Mechanism for vending cards and cartridges for target-shooting. No. 1,371,604; Mar. 15; v. 284; p. 463.
- Couch, Buel, Sioux City, Iowa. Needle-threader. No. 1,386,239; Aug. 2; v. 289; p. 55.
- Couch, Everett G., Washington, D. C. Porch-swing. No. 1,371,197; Mar. 8; v. 284; p. 319.
- Couch, Forrest J., Spencerport, N. Y., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing-machine. No. 1,364,253; Jan. 4; v. 282; p. 40.
- Couch, Forrest J., assignor to Clark-Cadle-Harmon Corporation, Rochester, N. Y. Turnbutton. No. 1,368,240; Feb. 15; v. 283; p. 370.
- Couch, Joseph G., Bessemer, Mich. Mop clamp and head. No. 1,385,427; July 26; v. 288; p. 654.
- Couch, Loyal A., New York, N. Y. Fuel-heater for internal-combustion engines. No. 1,389,029; Aug. 30; v. 289; p. 843.
- Couch, Nichols, Los Angeles, Calif. Trouble-lamp for automobiles. No. 1,372,403; Mar. 22; v. 284; p. 672.
- Couch, Stephen E., assignor to H. J. Poole, Springfield, Mass. Device for testing armatures. No. 1,373,383; Mar. 29; v. 284; p. 906.
- Coufal, Joseph F., New York, N. Y. Lantern-slide. No. 1,376,677; May 3; v. 286; p. 55.
- Coughlin, Arthur, *et al.* (See Gable, Jacob W., assignor.)
- Coughlin, Felix J., Versailles, Ohio. Parachute. No. 1,387,455; Aug. 16; v. 289; p. 419.
- Coughlin, Francis R. (See Davis, Frank H., assignor.)
- Coughlin, James P., Hastings, Nebr. Game apparatus. No. 1,369,084; Feb. 22; v. 283; p. 574.
- Coughlin, James P., Hastings, Nebr. Game. No. 1,370,786; Mar. 8; v. 284; p. 242.
- Coughlin, James P., Hastings, Nebr. Vehicle. No. 1,379,745; May 31; v. 286; p. 897.
- Coughlin, John J., Chicago, Ill. Railway terminal station. No. 1,376,407; May 3; v. 286; p. 6.
- Coughlin, Michael, Tacony, Pa. Nut-lock. No. 1,372,485; Mar. 22; v. 284; p. 687.
- Coughran, Samuel J., Buena Park, Calif. Tractor-seat. No. 1,385,521; July 26; v. 288; p. 674.
- Couliard, Albert O., Milford, Mass. Game apparatus. No. 1,387,241; Aug. 9; v. 289; p. 324.
- Couillard, Henri, Los Angeles, Calif. Film-cement holder and spreader. No. 1,401,318; Dec. 27.
- Coulombe, Joseph C., Lowell, Mass. Fuel-feeding device for engines. No. 1,365,154; Jan. 11; v. 282; p. 258.
- Coulombe, Joseph C., Lowell, Mass. Suction-inducing and fuel-feeding device. No. 1,365,661; Jan. 18; v. 282; p. 394.
- Coulombe, Joseph C., Lowell, Mass. Fuel-feeding device. No. 1,395,224; Oct. 25.
- Coulombe, Joseph C., Dracut, Mass. Vacuum-operated liquid-feed device. No. 1,366,061; Jan. 18; v. 282; p. 473.
- Coulombe, Joseph C., Dracut, Mass. Suction-augmenting device for vacuum feeding systems. No. 1,374,491; Apr. 12; v. 285; p. 256.
- Couls, George R., Detroit, Mich. Tool-holder. No. 1,397,796; Nov. 22.
- Coulson, Albert N., Baltimore, Md. Dimming mechanism for automobile-lights. No. 1,395,907; Nov. 1.
- Coulson, Arthur R., San Quentin, Calif. Composition of dried modified cultured milk powder to be used in cooking and baking human foods. No. 1,374,138; Apr. 5; v. 285; p. 147.
- Coulson, Earl V., Rock Island, Ill. Heating-system. No. 1,366,165; Jan. 18; v. 282; p. 493.
- Coulson, John, Wilkingsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Pickling process. No. 1,374,552; Apr. 12; v. 285; p. 268.
- Coulson, John, Wilkingsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolyte. No. 1,387,471; Aug. 16; v. 289; p. 422.
- Coulson, John, Wilkingsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolyte. No. 1,390,505; Sept. 13; v. 290; p. 281.
- Coulston, Earl V., Rock Island, Ill. Heating-stove. No. 1,368,701; Feb. 15; v. 283; p. 461.
- Coulston, Herbert V. (See Bokum, W. F., and Coulston.)
- Coulter, Lemuel P., Tacoma, Wash. Burner. No. 1,385,905; July 26; v. 288; p. 752.
- Coulter, Robert S. (See Nelson, J. W., and Coulter.)
- Council, William, assignor of one-half to J. Roche, St. Louis, Mo. Water-tube boiler. No. 1,391,300; Sept. 20; v. 290; p. 505.
- Counselman, Theodore B. (See Swart, W. G., Jordan, Davis, and Counselman.)
- Coup, Charles R., McKeesport, Pa. Fly-swatter. No. 1,387,922; Aug. 16; v. 289; p. 513.
- Courchene, Henry B., Chicago, Ill. Toilet-seat cover. No. 1,398,318; Nov. 29.
- Courmettes, H. A., New York, and A. B. Cox, Cherry Valley, N. Y. Range-finder. No. 1,381,453; June 14; v. 287; p. 266.
- Courses, Walter L., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Manufacture of zinc oxid. No. 1,372,486; Mar. 22; v. 284; p. 688.
- Courson, John F., Pitcairn, Pa. Draft-gear. No. 1,368,988; Feb. 15; v. 283; p. 515.
- Court, Clarence W. (See Cowell, S. H., and Court.)
- Court, Clarence W., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. Gondola car of the drop-end-gate type. No. 1,366,362; Jan. 25; v. 282; p. 575.
- Courtaulds, Limited, *et al.* (See Crewdon, Henry, assignor.)
- Courtaulds Limited. (See Criggal, John E., assignor.)
- Courtaulds Limited. (See Stokes, William H., assignor.)
- Courtaulds, Ltd. (See Clayton, James, assignor.)
- Courtney, Daniel M. (See Whitehead, Hugh H., assignor.)
- Courtney, Frank J., Seattle, Wash. Can emptying and flattening machine. No. 1,376,798; May 3; v. 286; p. 79.
- Courvoisier, James H., Joplin, Mo. Pneumatic tire. No. 1,386,599; Aug. 9; v. 289; p. 196.
- Cousing, George, Oswego, N. Y. Staybolt-chuck. No. 1,393,267; Oct. 11.
- Cousins, Benjamin, Tulsa, Okla. Hoisting-hook. No. 1,394,068; Oct. 18.
- Cousins, George, Oswego, N. Y. Micrometer-caliper. No. 1,393,266; Oct. 11.
- Coutant, Melvin L., *et al.* (See Carson, Robert H., assignor.)
- Coutts, Cornelius M., Isaquah, Wash. Shelving. No. 1,388,154; Aug. 16; v. 289; p. 557.
- Couture, Josaphat, Hull, Quebec, Canada. Watch-repair box. No. 1,372,604; Mar. 22; v. 284; p. 710.
- Couturier, Ernest A., Laporte, Ind. Slide-trombone. No. 1,385,202; July 19; v. 288; p. 533.
- Covert, Adolphus F. (See Crutchfield, E. H., and Covert.)



## Alphabetical list of patentees—Continued.

- Covert, Edson C., New Kensington, assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Apparatus for feeding pulverized fuel. No. 1,365,662; Jan. 18; v. 282; p. 395.
- Covert, Edson C., Avalon, assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Apparatus for feeding pulverized fuel. No. 1,365,663; Jan. 18; v. 282; p. 395.
- Covert, Edson C., New Kensington, assignor to Heyl & Patterson, Inc., Pittsburgh, Pa. Indicator for storage-hoppers or other receptacles. No. 1,379,803; May 31; v. 286; p. 908.
- Coveyou, Elias E., Petoskey, Mich. Honey-uncapping machine. No. 1,378,371; May 17; v. 286; p. 489.
- Cowan, Arthur S., Boston, assignor, by mesne assignments, to The Stafford Company, Readville, Boston, Mass. Warp stop-motion for looms. No. 1,394,970; Oct. 25.
- Cowan, Henry, New York, N. Y. Coffee-percolator. No. 1,387,128; Aug. 9; v. 289; p. 303.
- Cowan, Herbert W., *et al.*, trustees. (See Hennessy, D. E., and McGeorge, assignors.)
- Cowan, Herbert W., *et al.*, trustees. (See Hennessy, Daniel E., assignor.)
- Cowan, Park W., Los Angeles, Calif. Paper-guiding device for printing-presses. No. 1,366,769; Jan. 25; v. 282; p. 657.
- Cowan, Richard, Climax, Minn. Universal welding-clamp. No. 1,386,318; Aug. 2; v. 289; p. 71.
- Cowan, Richard S., assignor of one-half to G. Tower, Jr., St. Louis, Mo. Nut-cracking machine. No. 1,401,588; Dec. 27.
- Cowan, William J., Russellville, Ark. Reserve gasolene-tank. No. 1,366,247; Jan. 18; v. 282; p. 510.
- Cowardin, Harry A. (See Cowardin, Samuel P. and H. A.)
- Cowardin, Samuel P. and H. A., Richmond, Va. Fuel-injector for internal-combustion engines. No. 1,393,090; Oct. 11.
- Cowdrick, Hiram O., Philadelphia, Pa. Artificial tooth. No. 1,389,030; Aug. 30; v. 289; p. 844.
- Covell, John W., Chicago, Ill. Oil-burner. No. 1,377,669; May 10; v. 286; p. 302.
- Cowen, Henry K., Milwaukee, Wis. Automatic operating means for internal-combustion engines. No. 1,386,844; Aug. 9; v. 289; p. 247.
- Coven Truck Company. (See Hennessy, Daniel E., assignor.)
- Cowey, Leonard E., Kew Gardens, England. Sound-warning horn. No. 1,370,787; Mar. 8; v. 284; p. 242.
- Cowey, Leonard E., Kew Gardens, England. Spring suspension of motor road-vehicles. No. 1,377,980; May 10; v. 286; p. 363.
- Cowgill, David E., West Newton, Pa. Trap-nest. No. 1,396,407; Nov. 8.
- Cowgill, Frank M., assignor to The Ralston Steel Car Company, Columbus, Ohio. Car-body. No. 1,397,081; Nov. 15.
- Cowles, C., & Co. (See Goodman, Joseph, assignor.)
- Cowles, C., & Co. (See Hart, Franklin H., assignor.)
- Cowles, C., & Company. (See Bulley, Louis T., assignor.)
- Cowles, Edward A., Cleveland, Ohio. Milling-cutter. No. 1,391,097; Sept. 20; v. 290; p. 464.
- Cowles, George C. (See Johnson, J., and Cowles.)
- Cowles, Thomas L., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Vehicle spring suspension. No. 1,372,120; Mar. 22; v. 284; p. 617.
- Cowley, Robert H., Salt Lake City, Utah. Display-form. No. 1,377,466; May 10; v. 286; p. 265.
- Cowmatic Corporation. (See Lewis, John M. B., assignor.)
- Cox, Abraham B. (See Courmettes, H. A., and Cox.)
- Cox, Abraham B., Cherry Valley, N. Y. Tractor. No. 1,397,314; Nov. 15.
- Cox, Abram, Stove Company. (See Mott, A. C., Jr., and Meyer, assignors.)
- Cox, Abram, Stove Company. (See Mott, Abram C., Jr., assignor.)
- Cox Brass Manufacturing Company. (See Cox, Theodore M., assignor.)
- Cox Brass Manufacturing Company. (See Cox, William G., assignor.)
- Cox, Charles F., Bridgeton, N. J. Machine for making glass bottles. No. 1,385,428; July 26; v. 288; p. 654.
- Cox, Clare C., and G. W. Lentz, Indianapolis, Ind.; said Cox assignor of one-tenth to said Lentz. Storage-battery indicating device. No. 1,373,951; Apr. 5; v. 285; p. 112.
- Cox, Claude E., Detroit, Mich. Liquid-level gage. No. 1,375,131; Apr. 19; v. 285; p. 442.
- Cox, Claude E., Detroit, Mich. Liquid-level gage. No. 1,375,132; Apr. 19; v. 285; p. 442.
- Cox, Claude E., Chicago, Ill. Liquid-level gage. No. 1,378,327; May 17; v. 286; p. 481.
- Cox, Claude E., Detroit, Mich. Liquid-level indicator. No. 1,381,285; June 14; v. 287; p. 235.
- Cox, Claude E., Detroit, Mich. Automatic Oil-Cup. No. 1,382,823; June 28; v. 287; p. 640.
- Cox, Claude E., Detroit, Mich. Liquid-level indicator. No. 1,397,267; Nov. 15.
- Cox, Claude E., Detroit, Mich. Oil-cup. No. 1,400,804; Dec. 20.
- Cox, Cyril C., Denver, Colo. Transportation system. No. 1,397,242; Nov. 15.
- Cox, Dalmar L., Greenville, N. C. Clutch-releasing mechanism for tractors. No. 1,382,478; June 21; v. 287; p. 520.
- Cox, David H., Roselle, N. J. Cap for valve-tubes. No. 1,392,746; Oct. 4.
- Cox, Dillard H., Seaside, Oreg. Logging-hook. No. 1,376,258; Apr. 26; v. 285; p. 689.
- Cox, Earl W., Seattle, Wash. Apparatus for salvaging sunken ships. No. 1,379,533; May 24; v. 286; p. 784.
- Cox, Edward E. (See Beckwith, H. H., and Cox.)
- Cox, Edwin G., Oakland, Calif. Toy vehicle. No. 1,381,403; June 14; v. 287; p. 257.
- Cox, George, Black Earth, Wis. Dirigible headlight. No. 1,397,754; Nov. 22.
- Cox, George E., Wilmington, Del. Replaceable facing and pins therefor. No. 1,397,082; Nov. 15.
- Cox, Harold N., Glen Ridge, assignor to New Jersey Patent Company, West Orange, N. J. Production of electrodes for galvanic batteries. No. 1,366,559; Jan. 25; v. 282; p. 615.
- Cox, Harold N., Glen Ridge, assignor to New Jersey Patent Company, West Orange, N. J. Galvanic battery. No. 1,390,765; Sept. 13; v. 290; p. 334.
- Cox, Harry B., Los Olivos, Calif. Riveting and apparatus therefor. No. 1,365,664; Jan. 18; v. 282; p. 395.
- Cox, John E., East San Pedro, Calif. Fish-trimming machine. No. 1,377,465; May 10; v. 286; p. 264.
- Cox, John H., Hot Springs, Ark. Railway-wheel replacing and derailing device. No. 1,372,646; Mar. 22; v. 284; p. 718.
- Cox, John L., San Diego, Calif. Towel-table. No. 1,374,361; Apr. 12; v. 285; p. 231.
- Cox, John T., assignor to Brown Company, Berlin, N. H. Food fat and finishing the same. No. 1,380,777; June 7; v. 287; p. 86.
- Cox, John W., assignor of one-fourth to G. R. Metcalf and one-fourth to E. E. Walker, Erie, Pa. Heating and charging system for explosive-engines. No. 1,372,864; Mar. 29; v. 284; p. 803.
- Cox, John W., assignor of one-fourth to G. R. Metcalf and one-fourth to E. E. Walker, Erie, Pa. Electric heating element and making the same. No. 1,375,084; Apr. 19; v. 285; p. 433.
- Cox, Kenwick C., Norfolk Island, South Pacific. Telegraphy. No. 1,392,303; Oct. 4.
- Cox Manufacturing Company. (See Cox, William G., assignor.)
- Cox, Millard F., Louisville, Ky. Firing apparatus for furnaces. No. 1,370,633; Mar. 8; v. 284; p. 212.
- Cox, Nathan G., Livengood, Alaska. Flying-cruiser. No. 1,380,191; May 31; v. 286; p. 981.
- Cox, Paul E., Chicago, Ill. Addressing apparatus. No. 1,387,592; Aug. 16; v. 289; p. 447.
- Cox, Robert G., Savannah, Ga. Locomotive attachment. No. 1,400,267; Dec. 13.
- Cox, Robert J., Des Moines, N. Mex. Vegetable-slicer. No. 1,371,865; Mar. 15; v. 284; p. 512.
- Cox, Robert N., Waukegan, Ill. Magazine-pistol. No. 1,369,401; Feb. 22; v. 283; p. 635.
- Cox, Samuel J. (See Workman, H., and Cox.)
- Cox, Theodore M., Albany, N. Y. Attaching device for automobile-buffers. No. 1,381,169; June 14; v. 287; p. 214.
- Cox, Theodore M., assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-buffer. No. 1,371,605; Mar. 15; v. 284; p. 463.
- Cox, Theodore M., assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-buffer. No. 1,381,170; June 14; v. 287; p. 215.
- Cox, Victor L., Mount Sterling, Ohio. Cores. No. 1,371,775; Mar. 15; v. 284; p. 495.
- Cox, Walter, Philadelphia, Pa. Water-cooled glass-roller. No. 1,392,626; Oct. 4.
- Cox, Walter, Provo, Utah. Casement-window adjuster. No. 1,398,629; Nov. 29.
- Cox, Warren R., Cleveland, Ohio. Safeguard for electric circuits. No. 1,378,659; May 17; v. 286; p. 545.
- Cox, William, Toronto, Ontario, Canada. Fare-box holder. No. 1,365,817; Jan. 18; v. 282; p. 426.
- Cox, William, Toronto, Ontario, Canada. Fare-box. No. 1,365,818; Jan. 18; v. 282; p. 436.
- Cox, William E., *et al.* (See Mullins, John C., Jr., assignor.)
- Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Bracket for automobile-bumpers. No. 1,386,845; Aug. 9; v. 289; p. 247.
- Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-bumper. No. 1,387,456; Aug. 16; v. 289; p. 419.
- Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-bumper. No. 1,387,767; Aug. 16; v. 289; p. 483.
- Cox, William G., Cleveland, Ohio. Bracket for spring-bar bumpers. No. 1,391,373; Sept. 20; v. 290; p. 520.
- Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Bumper. No. 1,395,908; Nov. 1.
- Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-bumper. No. 1,397,315; Nov. 15.
- Cox, William G., Cleveland, Ohio, assignor to Cox Manufacturing Company, Albany, N. Y. Attaching device for automobile-buffers. No. 1,398,089; Nov. 22.



- Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Spring-bumper for automobiles. No. 1,398,177; Nov. 22.
- Cox, William H., Collegeville, Pa. Mop-cloth. No. 1,387,472; Aug. 16; v. 289; p. 422.
- Cox, William J., Bolivar, Mo. Nut-lock. No. 1,364,077; Jan. 4; v. 282; p. 5.
- Coxe Traveling Grate Company, The. (See Klein, Louis W., assignor.)
- Coxe Traveling Grate Company. (See Lloyd, William, assignor.)
- Coxey, Jasper S., Spokane, Wash. Mechanical toy. No. 1,387,923; Aug. 16; v. 289; p. 513.
- Coy, Donald W. (See Williams, T. F., Coy, and Pruden.)
- Coy, Herbert C., assignor to Vulcan Mfg. Co., Chicago, Ill. Shoe-polishing device. No. 1,383,189; June 28; v. 287; p. 709.
- Coyle, James S., St. Louis, Mo. Spark-plug. No. 1,386,457; Aug. 2; v. 289; p. 96.
- Coyle, John. (See Robinson, D. P., Coyle, and Kronquest.)
- Cozatt, Walter R., assignor of one-half to J. H. Brady, San Francisco, Calif. Space-liner for matrices. No. 1,400,728; Dec. 20.
- Cozens, George H., Hamilton, assignor of one-fourth to J. Hagey, Brantford, one-fourth to H. H. Blythe, and one-fourth to F. H. Secord, Hamilton, Ontario, Canada. Sash-fastener. No. 1,399,105; Dec. 6.
- Cozzo, Lorenzo, Chicago, Ill. Door-opener. No. 1,401,882; Dec. 27.
- Crabb, George W. J., Newark, and E. J. Rennie, Bloomfield, N. J. Dirigible headlight. No. 1,392,747; Oct. 4.
- Crabb, Victor, London, England. Dynamo-electric generator. No. 1,401,883; Dec. 27.
- Crabtree, John I., assignor to Eastman Kodak Company, Rochester, N. Y. Colored image and producing the same. No. 1,389,742; Sept. 6; v. 290; p. 37.
- Crabtree, Walter A. (See Crabtree, Wesley and W. A.)
- Crabtree, Wesley and W. A., Portsmouth, Ohio. Twine-holder. No. 1,389,863; Sept. 6; v. 290; p. 61.
- Craddick, Joel E., Denver, Colo. Electrothermal garment. No. 1,394,810; Oct. 25.
- Craddock, Simon M., Roosevelt, Okla. Veterinary surgical appliance. No. 1,388,172; Aug. 23; v. 289; p. 618.
- Craft, Chauncey, Rochester, N. Y. Attachment for containers. No. 1,384,120; July 12; v. 288; p. 228.
- Craft, Michael L., *et al.* (See Dillenger, Robert J., assignor.)
- Crago, Felix H., Hot Springs, Mont. Rotary water-motor or pump. No. 1,382,065; June 21; v. 287; p. 441.
- Craig, Alvin M., New Haven, Conn. Testing-machine. No. 1,367,353; Feb. 1; v. 283; p. 94.
- Craig, Alvin M., New Haven, Conn. Shock-diffuser for firearms. No. 1,367,354; Feb. 1; v. 283; p. 94.
- Craig, Alvin M., New Haven, Conn. Accuracy attachment for firearms. No. 1,369,085; Feb. 22; v. 283; p. 574.
- Craig, Alvin M., New Haven, Conn. Shock-absorber. No. 1,384,238; July 12; v. 288; p. 252.
- Craig, Charles F., and H. M. Connor, San Francisco, Calif., assignor to Craig Golfmeter Co. Captive-ball practice device. No. 1,399,292; Dec. 6.
- Craig, Charles F., and H. M. Connor, San Francisco, Calif., assignor to Craig Golfmeter Co. Playing-ball. No. 1,399,293; Dec. 6.
- Craig, Claude R., Wymore, Neb. Railway-lantern. No. 1,370,092; Mar. 1; v. 284; p. 64.
- Craig, Edgar H., Rockdale, Tenn. Automatic weighing-machine. No. 1,386,319; Aug. 2; v. 289; p. 71.
- Craig, Edward, St. Joseph, Mich. Multiple-head stapling-machine. No. 1,381,617; June 14; v. 287; p. 297.
- Craig, Edward, St. Joseph, Mich. Printing-press and blanking-machine. No. 1,383,531; July 5; v. 288; p. 56.
- Craig, Edward, St. Joseph, Mich. Box-blank machine. No. 1,384,239; July 12; v. 288; p. 252.
- Craig, Ernest A. (See Nicholson, H. A., and Craig.)
- Craig Golfmeter Co. (See Craig, C. F., and Connor, assignors.)
- Craig, Harold B., Springfield, Mass. Teaspoon and table-spoon leveler. No. 1,383,603; July 5; v. 288; p. 71.
- Craig, Homer C. (See Weaver, P., and Craig.)
- Craig, James, and C. C. Thomson, Butler, Pa. Nut and bolt assembling machine. No. 1,375,829; Apr. 26; v. 285; p. 607.
- Craig, John P. (See Friar, Edward, assignor.)
- Craig, Joseph E., Gary, Ind. Guide and gage for dental drills. No. 1,366,877; Jan. 25; v. 282; p. 679.
- Craig, Louis B., Davenport, Iowa. Fastening device. No. 1,400,662; Dec. 20.
- Craig, Richard M., San Antonio, Tex. Advertising-sign. No. 1,374,282; Apr. 12; v. 285; p. 216.
- Craig, Robert, Berkeley, Calif. Portable crane. No. 1,380,779; June 7; v. 287; p. 87.
- Craig, Robert M., Wilkinsburg, Pa. Press for metallic denture-backings. No. 1,373,170; Mar. 29; v. 284; p. 864.
- Craig, Robert M., Wilkinsburg, Pa. Metallic-denture-drawing die. No. 1,392,919; Oct. 11.
- Craig, St. George, Henderson, Ky. Pecan-nutcracker. No. 1,371,072; Mar. 8; v. 284; p. 296.
- Craig, Thomas J. I., assignor of one-half to Whipp Bros. & Tod Limited, Manchester, England. Fireproofing of textile fabrics and other porous articles. No. 1,397,858; Nov. 22.
- Craig, Walter L., Washington, D. C. Attachment for motorcycles. No. 1,388,803; Aug. 23; v. 289; p. 743.
- Crain, Henry N., Denver, Colo. Automobile direction-signal. No. 1,367,355; Feb. 1; v. 283; p. 94.
- Cramer, Carl, assignor to Schweizerische Sodafabrik, Zurich, Switzerland. Manufacture of caustic soda. No. 1,392,814; Oct. 4.
- Cramer, Fred C. (See Hughes, Charles H., assignor.)
- Cramer, Herman, Pine Lawn, Mo. Sausage-linking machine. No. 1,384,050; July 12; v. 288; p. 214.
- Cramer, Hiram C., Lexington, Ky. Dancing toy. No. 1,383,532; July 5; v. 288; p. 56.
- Cramer, Louis W., St. Joseph, Mo. Flashing. No. 1,396,732; Nov. 15.
- Cramer, Morris, Cleveland, Ohio. Diestock. No. 1,397,243; Nov. 15.
- Cramer, Stuart W., and W. B. Hodge, Charlotte, N. C., assignors to Parks-Cramer Company, Fitchburg, Mass. Apparatus for regulating humidity. No. 1,382,956; June 28; v. 287; p. 665.
- Cramer, William. (See Jacobs, I. M., and Cramer.)
- Crampton, Arthur F., West Hartford, Conn. Means for refining small grinding-wheels. No. 1,393,667; Oct. 11.
- Crampton, Basil R. (See Winters, A. F., and Crampton.)
- Cranage, Harry B., assignor of four-tenths to L. Fox, Leeds, England. Feeding motion for pressing and other machines. No. 1,401,884; Dec. 27.
- Crandall, Arthur J., Olean, N. Y. Ironing-table. No. 1,368,488; Feb. 15; v. 283; p. 419.
- Crandall, Edward R., Coldwater, Mich. Piano-key-repair clamp. No. 1,371,073; Mar. 8; v. 284; p. 296.
- Crandall, Leonard A., McCook, Nebr. Metal-cutting apparatus. No. 1,370,882; Mar. 8; v. 284; p. 259.
- Crandall, Milton S. (See Benson, E. R., and Crandall.)
- Crandon, J. B., Company. (See Crandon, Joseph B., assignor.)
- Crandon, Joseph B., assignor to J. B. Crandon Company, Portland, Me. Attachment for sulfur-burners. No. 1,397,724; Nov. 22.
- Crane, Adam L., Fort Mill, S. C. Cement tie and rail-fastener. No. 1,373,601; Apr. 5; v. 285; p. 43.
- Crane, Arthur T., assignor to The Chase Companies Inc., Waterbury, Conn. Spark-plug. No. 1,367,303; Feb. 1; v. 283; p. 83.
- Crane, Arthur T., assignor to The Chase Companies Inc., Waterbury, Conn. Spark-plug. No. 1,378,838; May 24; v. 286; p. 652.
- Crane, Calvin D., Dayton, Ohio. Still. No. 1,372,865; Mar. 29; v. 284; p. 803.
- Crane, Calvin D., Dayton, Ohio. Liquid cooling and aerating device. No. 1,384,938; July 19; v. 288; p. 478.
- Crane Co. (See Olson, Charles A., assignor.)
- Crane Company. (See Link, Maximilian W., assignor.)
- Crane, Frederick D., Montclair, N. J. Electrolytic refining of metals. No. 1,394,147; Oct. 18.
- Crane, Frederick G., *et al.* (See Hammond, Grant, assignor.)
- Crane, George A., Chicago, Ill. Auxiliary tire for vehicle-wheels. No. 1,384,240; July 12; v. 288; p. 253.
- Crane, Glen E., *et al.* (See Curtis, O. D., assignor.)
- Crane, Joshua, *et al.*, trustees. (See Waterhouse, Harold D., assignor.)
- Crane, Joshua, Westwood, Mass. Tire. No. 1,387,242; Aug. 9; v. 289; p. 324.
- Crane, Scott S., *et al.* (See Showalter, Roy C., assignor.)
- Crane, Thomas W., Imperial, Calif. Automatic fuel control. No. 1,400,868; Dec. 20.
- Crane, Walter S., *et al.*, trustees. (See Waterhouse, Harold D., assignor.)
- Crane, William H., Davenport, Iowa. Antiskid device for vehicle-wheels. No. 1,398,538; Nov. 29.
- Cranford, Rufus C., De Land, Fla. Window-shade bracket. No. 1,391,528; Sept. 20; v. 290; p. 552.
- Crank, Margaret B., Los Angeles, Calif. House-garment. No. 1,379,902; May 31; v. 286; p. 926.
- Crank, Nathaniel, Hill City, Kans. Door-stop. No. 1,371,473; Mar. 15; v. 284; p. 437.
- Cranmer, Frank B. (See Hampshire, H. F., and Cranmer.)
- Cranmer, John J., assignor of one-fourth to L. Payton, Pine Grove, and one-fourth to J. W. Preston, Jr., San Francisco, Calif. Ore-milling machine. No. 1,391,301; Sept. 20; v. 290; p. 505.
- Cranshaw, Harold B., Boston, Mass. Receptacle. No. 1,367,356; Feb. 1; v. 283; p. 94.
- Cranston, Albert E., Spokane, Wash. Knotter. No. 1,374,283; Apr. 12; v. 285; p. 216.
- Cranston, Albert E., Spokane, Wash. Binding-machine. No. 1,376,006; Apr. 26; v. 285; p. 641.
- Cranston, Albert E., Spokane, Wash. Knotter. No. 1,388,553; Aug. 23; v. 289; p. 694.
- Cranston, John T., and W. D. Le Bar, Wyandotte, Mich. Electrolytic cell. No. 1,398,784; Nov. 29.
- Crass, George H., assignor of one-half to J. Sabin, Ithaca, N. Y. Auto-wheel. No. 1,375,830; Apr. 26; v. 285; p. 607.
- Crate, Walter W., Camden, N. J. Mold for making artificial teeth. No. 1,370,191; Mar. 1; v. 284; p. 83.
- Crate, Walter W., Camden, N. J. Making artificial teeth. No. 1,370,192; Mar. 1; v. 284; p. 83.
- Craun, William H. (See Gregory, Benjamin F., and Craun.)



## Alphabetical list of patentees—Continued.

- Cravelone, Tony, and C. Martello, Anaconda, Mont. Automatic train-pipe connector. No. 1,392,121; Sept. 27; v. 290; p. 745.
- Craven, Henry L., Delton, Mich. Drive for trucks and the like. No. 1,399,933; Dec. 13.
- Craven, James F., Pittsburgh, Pa. Making weldless chains. No. 1,368,122; Feb. 8; v. 283; p. 299.
- Craven, James F., Pittsburgh, Pa. Receptacle for containing and discharging semisolid and pasty substances. No. 1,387,473; Aug. 16; v. 289; p. 422.
- Craver, Augustus E. (See Bailey, G. C., and Craver.)
- Craver, Augustus E., Cliffside, N. J. Adhesive waterproofing and sizing composition. No. 1,373,412; Apr. 5; v. 285; p. 6.
- Craver, Howard S., assignor of one-half to H. S. Judd, Chicago, Ill. Reversing-ratchet. No. 1,365,892; Jan. 18; v. 282; p. 441.
- Crawford, A. O., Co. (See Scotcher, Charles A., assignor.)
- Crawford, Albert G., Iroquois, S. D. Steering device for tractors. No. 1,380,638; June 7; v. 287; p. 59.
- Crawford, Albert G., Chicago, Ill., assignor to H. W. Seaman, Clinton, Iowa. Refrigeration process. No. 1,396,024; Nov. 8.
- Crawford, Beatty M., Santa Ana, assignor to V. V. Kunkel, Los Angeles, Calif. Honey-extractor. No. 1,392,679; Oct. 4.
- Crawford, Charles C. (See Maddox, Robert A., assignor.)
- Crawford, Charles E., Liberty, N. Y. Vehicle-brake. No. 1,400,869; Dec. 20.
- Crawford, Charles S., assignor to Premier Motor Corporation, Indianapolis, Ind. Vehicle-wheel. No. 1,381,859; June 14; v. 287; p. 342.
- Crawford, Charlotte E. (See Crawford, William H., assignor.)
- Crawford, Edgar J., Seattle, Wash. Valve. No. 1,376,745; May 3; v. 286; p. 69.
- Crawford, Edgar J., assignor to J. E. Jordan, Seattle, Wash. Speed control for motor-vehicles. No. 1,384,730; July 12; v. 288; p. 355.
- Crawford, Edgar J., assignor to J. E. Jordan, Seattle, Wash. Automatic speed control. No. 1,398,539; Nov. 29.
- Crawford, Edward E., Bremerton, Wash. Window-stop. No. 1,381,083; June 7; v. 287; p. 146.
- Crawford, Frank. (See Grafton, E. H., and Crawford.)
- Crawford, Frank, assignor of one-half to C. C. Burnett, Los Angeles, Calif. Friction-top can-sealer. No. 1,392,867; Oct. 4.
- Crawford, Fred, Prosser, Wash. Guard-finger. No. 1,396,997; Nov. 15.
- Crawford-Frost, William A., Baltimore, Md. Torpedo-obstructing projectile. No. 1,377,467; May 10; v. 286; p. 265.
- Crawford, George N., assignor to F. C. Austin, Chicago, Ill. Lifting apparatus. No. 1,384,051; July 12; v. 288; p. 214.
- Crawford, Gustavus C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,386,690; Aug. 9; v. 289; p. 215.
- Crawford, Harry H., Chicago, Ill. Hanger for use in concrete ceilings. No. 1,390,985; Sept. 20; v. 290; p. 441.
- Crawford, John A., Philadelphia, Pa. Washing-machine and pump mechanism therefor. No. 1,382,479; June 21; v. 287; p. 520.
- Crawford, John F., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Machine for making rings. No. 1,390,507; Sept. 13; v. 290; p. 282.
- Crawford, John S., New London, Conn. Train-control apparatus. No. 1,391,941; Sept. 27; v. 290; p. 708.
- Crawford, Joseph B. (See Locker, John B., assignor.)
- Crawford, McGregor, and Canby Co., The. (See Keys, William J., assignor.)
- Crawford, McGregor and Canby Co., The. (See Long, C. L., and Schmaus, assignors.)
- Crawford, McGregor and Canby Co., The. (See Risser, Charles E., assignor.)
- Crawford, McGregor and Candy Company, The. (See Long, Claud L., assignor.)
- Crawford, McGregor and Canby Company, The. (See Mattern, George W., assignor.)
- Crawford, Michael D. (See Cokely, G. A., and Crawford.)
- Crawford, Miner. (See Northcutt, J. G., and Crawford.)
- Crawford, Neil D., Milford, Conn., assignor to The Mechanical Rubber Company. Method and apparatus for manufacturing inflated rubber articles. No. 1,365,462; Jan. 11; v. 282; p. 317.
- Crawford, Ralph F., Salina, Kans. Power-transmission device. No. 1,379,534; May 24; v. 286; p. 784.
- Crawford, Ralph F., Salina, Kans. Cooling system for automobile-engines. No. 1,400,805; Dec. 20.
- Crawford, Samuel T., Washington, D. C. Comb. No. 1,381,804; June 14; v. 287; p. 333.
- Crawford, Thomas D., Hammond, Ind. Fixture for self-serving stores. No. 1,390,673; Sept. 13; v. 290; p. 316.
- Crawford, Walter G., assignor to Western Electric Company, Inc., New York, N. Y. Telephone set. No. 1,368,241; Feb. 15; v. 283; p. 371.
- Crawford, Walter W., Kew Gardens, Surrey, England. Manufacture of bricks. No. 1,395,990; Nov. 1.
- Crawford, William E., Devils Lake, N. D. Wheel. No. 1,376,259; Apr. 26; v. 285; p. 689.
- Crawford, William G., Tarentum, Pa. Roll-polisher. No. 1,369,086; Feb. 22; v. 283; p. 574.
- Crawford, William H., assignor to C. E. Crawford, Los Angeles, Calif. Boom-drag-line excavator. No. 1,401,319; Dec. 27.
- Crawford, William W., Philadelphia, Pa., assignor to Victor Electric Corporation, Chicago, Ill. Apparatus for producing high vacuum. No. 1,367,865; Feb. 8; v. 283; p. 251.
- Crawley, Joseph, Erie, Pa. Universal joint. No. 1,372,404; Mar. 22; v. 284; p. 672.
- Creamer, Edgar R. (See Bolender, J. D., and Creamer.)
- Creamery Package Manufacturing Company, The. (See Penn, William E., assignor.)
- Crease, Walter E., East Greenwich, R. I. Beehive. No. 1,393,757; Oct. 18.
- Creasey, Percy J., Cabin Creek, W. Va. Injector. No. 1,383,985; July 5; v. 288; p. 151.
- Creasey, Samuel E., Sanford, Me. Convertible vehicle. No. 1,388,928; Aug. 16; v. 289; p. 533.
- Creech, David E., Jackson, Mich. Piston-ring. No. 1,388,631; Aug. 23; v. 289; p. 709.
- Creed, William T., Irving, Tex. Shoe-heel holder. No. 1,390,886; Sept. 13; v. 290; p. 358.
- Creed, William T., Irving, Tex. Meat-cutting machine. No. 1,391,616; Sept. 20; v. 290; p. 569.
- Creedy, Edward F., Chicago, Ill. Automatic-feed memorandum device. No. 1,400,029; Dec. 13.
- Crehore, Albert C., Yonkers, N. Y. Telegraphic alphabet or code. No. 1,364,078; Jan. 4; v. 282; p. 6.
- Crehore, Austen B., Westfield, N. J. Automobile card-index system. No. 1,373,171; Mar. 29; v. 284; p. 864.
- Cregier, Nathaniel B., Chicago, Ill. Telegraph register receiving apparatus. No. 1,378,011; May 17; v. 286; p. 421.
- Cregier, Nathaniel B., Los Angeles, Calif. Signal for dining-tables. No. 1,378,839; May 24; v. 286; p. 652.
- Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,374,826; Apr. 12; v. 285; p. 321.
- Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Resistor. No. 1,394,187; Oct. 18.
- Creighton, Elmer E. F., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,396,559; Nov. 8.
- Creighton, Elmer E. F., and F. R. Shavor, Schenectady, N. Y., assignors to General Electric Company. Protective device. No. 1,394,971; Oct. 25.
- Crescent Belt Fastener Company. (See Voss, Clara S. E., assignor.)
- Cresci, Anthony L., Vineland, N. J. Door-operating mechanism. No. 1,371,074; Mar. 8; v. 284; p. 296.
- Cresco Manufacturing Co. (See Thomas, Adelbert A., assignor.)
- Crespo, Joaquin, Mexico, Mexico. Resilient wheel. No. 1,368,242; Feb. 15; v. 283; p. 371.
- Crespo, Joaquin, Mexico, Mexico. Composition of matter for impregnating articles made of paper, pasteboard, pulp, and similar material. No. 1,401,524; Dec. 27.
- Cressall, Frederick, Newport, Isle of Wight, England. Burglar or thief alarm. No. 1,372,671; Mar. 29; v. 284; p. 764.
- Cressall, Frederick, Newport, Isle of Wight. Contact for thief-alarms or other electrically-operated devices. No. 1,383,079; June 28; v. 287; p. 688.
- Cresse, Everett, Omaha, Nebr. Window-frame. No. 1,384,516; July 12; v. 288; p. 310.
- Cressey, John A., Dallas, Tex. Confection. No. 1,382,601; June 21; v. 287; p. 543.
- Cressey, John A., Dallas, Tex. Producing confections. No. 1,383,290; July 5; v. 288; p. 7.
- Cressler, Will T., Cincinnati, Ohio. Hand-stamp. No. 1,398,363; Nov. 29.
- Crevasse, H., et al. (See Dunbar, Thomas E., assignor.)
- Creveling, John L., Auburn, N. Y. Electric regulation. No. 1,394,148; Oct. 18.
- Creveling, John L., Auburn, N. Y. Electric regulation. No. 1,394,972; Oct. 25.
- Creveling, John L., New York, N. Y., assignor to Safety Car Heating and Lighting Company. Electric regulation. No. 1,380,885; June 7; v. 287; p. 108.
- Creveling, John L., White Plains, N. Y., assignor to Gould Coupler Company. Electric regulation. No. 1,400,729; Dec. 20.
- Credwood, Henry, Roanoke, Va., assignor of one-half to Courtaulds, Limited, London, England, and one-half to The Viscose Company, Roanoke, Va. Spinning-box mounting. No. 1,381,805; June 14; v. 287; p. 338.
- Crews, Charles M. (See Heap, William A., assignor.)
- Crews, Henry R., Totowa borough, N. J. Overbox-cover. No. 1,384,517; July 12; v. 288; p. 310.
- Crosson, Earl S., Kansas City, Mo. Brake mechanism. No. 1,380,013; May 31; v. 286; p. 953.
- Cribari, Angelo G., San Bruno, Calif. Tractor. No. 1,391,761; Sept. 27; v. 290; p. 671.
- Cribben & Sexton Company. (See Harter, Augustus F., assignor.)



- Crichton, Leslie N., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc extinguishing device. No. 1,368,325; Feb. 15; v. 283; p. 387.
- Crickmore, Leonard A. (See Grant, S., and Crickmore.)
- Criggall, John E., Coventry, assignor to Courtaulds Limited, London, England. Squirting-nozzle for use in the manufacture of strips and the like from viscose and analogous matter and for similar purposes. No. 1,366,166; Jan. 18; v. 282; p. 494.
- Criner, Harry J., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Washing-machine. No. 1,364,079; Jan. 4; v. 282; p. 6.
- Criner, Harry J., assignor of one-half to J. M. Robinson and one-half to J. W. Bybee, Moline, Ill. Piston-ring. No. 1,381,544; June 14; v. 287; p. 284.
- Crippen, Arthur J., Rochester, N. Y., assignor to Crippen Record File Corporation. Disk-record cabinet. No. 1,375,085; Apr. 19; v. 285; p. 433.
- Crippen Record File Corporation. (See Crippen, Arthur J., assignor.)
- Crippen, Roy D., San Diego, assignor of one-half to G. B. Sheldon, La Mesa, Calif. Hose-coupling. No. 1,370,289; Mar. 1; v. 284; p. 101.
- Crippen, Walter R., Pelham, N. Y. Phonograph attachment. No. 1,377,186; May 10; v. 286; p. 210.
- Crispin, Clarence G., East Berwick, Pa. Light-weight piston of skeleton construction. No. 1,387,593; Aug. 16; v. 289; p. 447.
- Crisson, George. (See Demarest, C. S., Clark, and Crisson.)
- Crisson, George, Hoboken, N. J., assignor to American Telephone and Telegraph Company. Method of and means for detecting irregularities in transmission-lines. No. 1,392,815; Oct. 4.
- Crist, John F., Cleveland, Ohio. Toy. No. 1,375,677; Apr. 26; v. 285; p. 579.
- Crist, Raymond T. (See Berels, J. A., and Crist.)
- Criswell, Richard L., Lakewood, Ohio. Valve-lifter. No. 1,348,518; July 12; v. 288; p. 310.
- Criswell, Walter H., Merlin, Oreg. Combined bumper and locking device. No. 1,376,189; Apr. 26; v. 285; p. 676.
- Critchfield, Kenneth N., Detroit, Mich. Heel for boots or shoes. No. 1,369,166; Feb. 22; v. 283; p. 590.
- Crites, Virgil C., Chicago, Ill. Photometric device. No. 1,379,172; May 24; v. 286; p. 715.
- Crittall, Casement Window Co. (See Walker, Thomas E., assignor.)
- Crnoev, Jan, Los Angeles, Calif. Tie-holder. No. 1,400,663; Dec. 20.
- Crochat, Henry, Paris, France. Electrical driving. No. 1,391,529; Sept. 20; v. 290; p. 552.
- Crocker, Ernest B. (See Graesser, C. H., and Crocker.)
- Crocker, Ernest B., assignor to The Ashcroft Manufacturing Company, Bridgeport, Conn. Hydrostatic circuit-closer. No. 1,370,193; Mar. 1; v. 284; p. 83.
- Crocker, Ernest B., Stratford, Conn., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y. Stop-pin for gage-dials. No. 1,374,438; Apr. 12; v. 285; p. 246.
- Crocker, Ernest B., assignor to The Ashcroft Manufacturing Company, Bridgeport, Conn. Pressure-gage. No. 1,375,366; Apr. 19; v. 285; p. 487.
- Crocker, Ernest B., Stratford, Conn., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y. Gage-socket. No. 1,376,860; May 3; v. 286; p. 92.
- Crocker, Fred W., Los Angeles, Calif. Clasp. No. 1,392,816; Oct. 4.
- Crocker Pen Company. (See Mackenzie, Roderick J., assignor.)
- Crocker, Ralph W., Chicago, Ill. Food product and preparing same. No. 1,385,246; July 19; v. 288; p. 542.
- Crocker, Ralph W., Chicago, Ill. Food product and preparing same. No. 1,388,699; Aug. 23; v. 289; p. 722.
- Crocker, William G., Lisbon, N. D. Addressing attachment for typewriters. No. 1,388,099; Aug. 16; v. 289; p. 547.
- Crocker, William W., Junction City, Kans. Clothes-stick. No. 1,386,992; Aug. 9; v. 289; p. 277.
- Crocket, Percy M., Norristown, L. J. Ehlinger, Conshohocken, and J. J. Powers, West Conshohocken, Pa. Automatic condensation-pump. No. 1,373,304; Mar. 29; v. 284; p. 890.
- Crockett, Charles H. (See Crockett, Charles W. and C. H.)
- Crockett, Charles W. and C. H., Troy, N. Y. Searchlight-reflector. No. 1,385,429; July 26; v. 288; p. 655.
- Crockett, William P., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Presser-foot for skiving-machines. No. 1,372,647; Mar. 22; v. 284; p. 718.
- Crofford, Ada C., Bennett county, S. D. Sealing preserving-jars. No. 1,372,672; Mar. 29; v. 284; p. 764.
- Croft, Charles L., Balham, London, assignor of one-half to D. S. Cooper, London, England. Catch for stands for motorcycles and the like. No. 1,393,508; Oct. 11.
- Crofton, Wilfred B., Yeoville, Johannesburg, Transvaal, South Africa. Hydraulic change-speed gear. No. 1,370,290; Mar. 1; v. 284; p. 101.
- Croft & Knapp Company, The. (See Josephs, Julius, assignor.)
- Croghan, Charles W., Bangor, Me. Drum-handle for tape-line reels. No. 1,375,630; Apr. 19; v. 285; p. 537.
- Croghan, Jacob R., Shaunavon, Saskatchewan, Canada. Clutch for grain-separators. No. 1,392,403; Oct. 4.
- Crompton, Edward D., Charlevoix, Mich. Spotlight. No. 1,372,066; Mar. 22; v. 284; p. 607.
- Crompton, George, Jr., Worcester, Mass. Recoil picking mechanism for looms. No. 1,393,758; Oct. 18.
- Crompton & Knowles Loom Works. (See Bardsley, Henry, assignor.)
- Crompton & Knowles Loom Works. (See Crossland, George, assignor.)
- Crompton & Knowles Loom Works. (See Gagnon, Joseph A., assignor.)
- Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
- Crompton & Knowles Loom Works. (See Marshall, Robert A., assignor.)
- Crompton & Knowles Loom Works. (See Needham, W. H., and Vile, assignors.)
- Crompton & Knowles Loom Works. (See Regan, John, assignor.)
- Crompton & Knowles Loom Works. (See Richardson, Oscar W., assignor.)
- Crompton & Knowles Loom Works. (See Ryon, E. H., and Welsh, assignors.)
- Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignor.)
- Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)
- Crompton, Lionel W., and W. J. Graham, Tampa, Fla. Switch. No. 1,364,355; Jan. 4; v. 282; p. 60.
- Crompton, Thomas A., Jr., London, England. Relief-valve. No. 1,371,866; Mar. 15; v. 284; p. 512.
- Cromwell, Charles H., Georgetown, Ill. Bed-hinge for automobile-trucks. No. 1,396,678; Nov. 8.
- Cronan, William. (See Harris, W. S., Cronan, and Jackson.)
- Crone, Leonard S., New York, N. Y. Hinge. No. 1,375,212; Apr. 19; v. 285; p. 458.
- Crone, Leonard S., New York, N. Y. Delineating apparatus. No. 1,395,260; Nov. 1.
- Crone, Leonard S., New York, N. Y. Sliding-top desk. No. 1,395,558; Nov. 1.
- Crone, Seth A., East Orange, N. J. Brake-beam. No. 1,387,768; Aug. 16; v. 289; p. 483.
- Croner, Marlin, Klemme, Iowa. Fountain floor and furniture polisher. No. 1,389,743; Sept. 6; v. 290; p. 37.
- Cronholm, Frederick N., Denver, Colo. Measuring-turn-out for irrigating systems. No. 1,366,062; Jan. 18; v. 282; p. 474.
- Cronin, John J., Dallas, Tex. Ice-carrier. No. 1,375,213; Apr. 19; v. 285; p. 458.
- Croninger, Lorenzo D., Dayton, Ohio. Automatic cut-out. No. 1,400,870; Dec. 20.
- Crook, Alfred I., assignor to Philadelphia Roll and Machine Company, Philadelphia, Pa. Rolling-mill. No. 1,370,291; Mar. 1; v. 284; p. 102.
- Crook, Charles M., Chicago, Ill. Automatic time-indicating and signaling device. No. 1,383,533; July 5; v. 288; p. 56.
- Crook, Charles M., Chicago, Ill., and J. R. Gammeter, Akron, Ohio, assignors to Stromberg Electric Company, Chicago, Ill. Automatic time-indicating and signaling instrument. No. 1,383,534; July 5; v. 288; p. 57.
- Crook, Edwin E. (See Little, I. C., and Crook.)
- Crook, John E. (See Crook, Julia H. and J. E.)
- Crook, Julia H. and J. E., Remuera, Auckland, New Zealand. Window construction. No. 1,396,359; Nov. 8.
- Crook, Lord & Lawhon, et al. (See Spencer, Elmer H., assignor.)
- Crook, Richard, Victoria, British Columbia, Canada. Logging system. No. 1,365,155; Jan. 11; v. 282; p. 258.
- Crooks, James W., Pelham, N. Y. Dish-washing machine. No. 1,382,172; June 21; v. 287; p. 461.
- Crooks, James W., Pelham, N. Y. Dish-washing machine. No. 1,385,203; July 19; v. 288; p. 534.
- Crosbie, Robert G., Hawthorn, Victoria, assignor to The Case Making Machine Company, Limited, Melbourne, Australia. Apparatus for use in making boxes, crates, and the like. No. 1,388,408; Aug. 23; v. 289; p. 667.
- Crosby, Alfred D., Attleboro, Mass. Collar-holder. No. 1,370,883; Mar. 8; v. 284; p. 259.
- Crosby, Alphonzo S., et al. (See Huber, William E., assignor.)
- Crosby, Edward H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Counter for locks. No. 1,394,475; Oct. 18.
- Crosby, Edwin L., and O. J. Marshick, Detroit, Mich. Electrode-adjusting mechanism. No. 1,367,021; Feb. 1; v. 283; p. 28.
- Crosby, John P., St. Louis, Mo. Window-sash fastener. No. 1,397,923; Nov. 22.
- Crosby, Oliver, assignor to American Hoist & Derrick Co., St. Paul, Minn. Rope-clamp. No. 1,373,800; Apr. 5; v. 285; p. 81.
- Crosby, Phillip A., Alton, R. R. Matthews, Wood River, Ill., and R. B. High, Oakland, Calif., assignors to Roxana Petroleum Company of Oklahoma, St. Louis, Mo. Fire-extinguishing composition. No. 1,375,779; Apr. 26; v. 285; p. 597.
- Crosby Steam Gage & Valve Company. (See Clark, George H., assignor.)
- Crosby Steam Gage & Valve Company. (See Clark, George H., assignor.)
- Crosby, Vernon E., Minneapolis, Minn. Rear-seat windshield. No. 1,386,600; Aug. 9; v. 289; p. 197.



## Alphabetical list of patentees—Continued.

- Crosby, William H., Corning, N. Y. Washing device for autos. No. 1,394,282; Oct. 18.
- Crossetti, Gerónimo, Buenos Aires, Argentina. Lamp. No. 1,385,430; July 26; v. 288; p. 655.
- Crosier, Fred D., Brockton, Mass. Steamer. No. 1,377,809; May 10; v. 286; p. 330.
- Crosland, Percy F. (See Hawley, A. E., Crosland and Dixon.)
- Crosley, Powel, Jr., Cincinnati, Ohio. Vulcanizer. No. 1,393,091; Oct. 11.
- Cross, Anson K., Ashland, Mass. Drawing and painting glass. No. 1,387,439; Aug. 9; v. 289; p. 365.
- Cross, Harry, Woodstock, Ill. Shock-absorber. (Reissue.) No. 15,197; Sept. 20; v. 290; p. 577.
- Cross, Harry J., *et al.* (See Welch, James G., assignor.)
- Cross, Jay E., Takoma Park, Md. Apparatus for cleaning book-covers and the like. No. 1,387,884; Aug. 16; v. 289; p. 505.
- Cross, Silas H., Sacramento, Calif. Sheep-holding device. No. 1,401,393; Dec. 27.
- Crossen, Edgar H., Franklin, Pa. Cylinder and piston for internal-combustion motors. No. 1,371,225; Mar. 15; v. 284; p. 387.
- Crossett, Thomas, Brooklyn, N. Y. Making U-packing. No. 1,386,601; Aug. 9; v. 289; p. 197.
- Crossett, Thomas, New York, N. Y. Mold and apparatus for making U-packing. No. 1,386,602; Aug. 9; v. 289; p. 197.
- Crossland, George, Jessups, Md., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Carpet-weave. No. 1,367,022; Feb. 1; v. 283; p. 28.
- Crossley, Austin A., Luther, Okla. Locking-valve for internal-combustion engines. No. 1,382,480; June 21; v. 287; p. 520.
- Crossley, Elijah R., Chicago, Ill. Apparatus for use in surgical operations on the eye. No. 1,375,445; Apr. 19; v. 285; p. 502.
- Crossley, Jesse D., Redford, Mich. Feeding device for screw-machines. No. 1,367,589; Feb. 8; v. 283; p. 198.
- Crossley, Percy B., Calcutta, India. Manufacture of a glass using natural silicates, such as micaceous minerals, asbestos, and the like. No. 1,394,973; Oct. 25.
- Crossley, Thomas, Manchester, England. Split collar and pulley. No. 1,382,481; June 21; v. 287; p. 521.
- Crossley, William, West Haven, Conn. Automobile-signal. No. 1,367,304; Feb. 1; v. 283; p. 84.
- Crossman, Alvin A., Vernon, Tex. Pipe and like stem. No. 1,369,624; Feb. 22; v. 283; p. 679.
- Crossno, Charley M., Sallisaw, Okla. Phonograph-reproducer. No. 1,379,535; May 24; v. 286; p. 784.
- Croswhite, Estel L., Kansas City, Mo. Wire-reel. No. 1,385,522; July 26; v. 288; p. 674.
- Croswhite, Estel L., Kansas City, Mo. Wire-reel. No. 1,399,934; Dec. 13.
- Crotto, Frank E., Dallas, Tex. Well-cleaning device. No. 1,400,030; Dec. 13.
- Crotto, Frank E., Dallas, Tex., assignor to Reclamation Oil Producing Association. Well-washing device. No. 1,401,464; Dec. 27.
- Crotto, Frank E., assignor to R. T. Meador, trustee. Dallas, Tex. Well-washer. No. 1,384,305; July 12; v. 288; p. 266.
- Crotty, Andrew J., Knocklong, Ireland. Oil-cap for vehicle-wheels. No. 1,400,871; Dec. 20.
- Crouch, Alva E., Cloverport, Ky. Rail-joint. No. 1,366,248; Jan. 18; v. 282; p. 510.
- Crouch, Marion L., assignor to The Procter & Gamble Company, Cincinnati, Ohio. Forming cakes of soap. No. 1,401,050; Dec. 20.
- Crouch, Thomas E., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Keeper for night-latches. No. 1,365,156; Jan. 11; v. 282; p. 258.
- Crouse, Emory, Wichita, Kans. Gasolene-dispenser. No. 1,379,442; May 24; v. 286; p. 766.
- Crouse, G. B., and I. H. Mills, assignors to The Sperry Gyroscope Company, Brooklyn, N. Y. Receiving-panel. No. 1,370,093; Mar. 1; v. 284; p. 64.
- Crouse, George B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Spark-gap. No. 1,399,005; Dec. 6.
- Crouse, Henry M., Chicago, and G. G. Newell, Congress Park, Ill. Combined autographic register and recording machine. No. 1,366,718; Jan. 25; v. 282; p. 647.
- Crouse Hinds Company. (See Bissell, Carl H., assignor.)
- Crouse-Hinds Company. (See Mantel, Florian J., assignor.)
- Crow, Waller, and J. C. Schaffer, Tiffin, Ohio. Fuel-injector. No. 1,368,702; Feb. 15; v. 283; p. 461.
- Crow, Waller, and J. C. Schaffer, Tiffin, Ohio. Quicklime production. No. 1,377,401; May 10; v. 286; p. 252.
- Crowder, Havy Q. R., Chicago, Ill. Ellipsograph. No. 1,373,056; Mar. 29; v. 284; p. 841.
- Crowder, Raymond, Raleigh, N. C. Oil-dispensing apparatus. No. 1,390,508; Sept. 13; v. 290; p. 282.
- Crowe, Henry, Saltburn-by-the-Sea, assignor to Galloways Limited, Manchester, England. Valve for engines. No. 1,367,357; Feb. 1; v. 283; p. 94.
- Crowe, Joseph N., Washington, D. C., assignor to C. C. Williams, trustee, acting chief of ordnance, U. S. Army. Rifle-grenade. No. 1,376,320; Apr. 26; v. 285; p. 702.
- Crowe, Robert L., Memphis, Tenn. Quinin silver phosphate composition and making same. No. 1,399,604; Dec. 6.
- Crowe, Thomas B. (See Mills, L. D., and Crowe.)
- Crowell, Charles H., Brooklyn, N. Y. Cloth dyeing and finishing process and product. No. 1,370,412; Mar. 1; v. 284; p. 124.
- Crowell, Charles H., Brooklyn, N. Y. Composite fabric strip. No. 1,370,413; Mar. 1; v. 284; p. 124.
- Crowell, La Vaughan. (See Crowell, Mary E. and L.)
- Crowell, Mary E. and L., Culbertson, Nebr. Knitting-needle holder. No. 1,372,648; Mar. 22; v. 284; p. 718.
- Crowell, W. R., *et al.* (See Stevens, Ransom H., assignor.)
- Crowell, William de F., St. Louis, Mo. Windshield for vehicles and conveyances. No. 1,385,204; July 19; v. 288; p. 534.
- Crowell, William J., Jr., Wyncote, Pa. Flow-meter. No. 1,366,522; Jan. 25; v. 282; p. 608.
- Crowell, Windom H., Detroit, Mich. Crochet cotton or wool holding device. No. 1,384,602; July 12; v. 288; p. 328.
- Crowley, Joseph P., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method of and apparatus for cutting sheet-glass. No. 1,377,320; May 10; v. 286; p. 236.
- Crowley, Joseph P., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for drawing sheet-glass. No. 1,394,283; Oct. 18.
- Crowley and Smith Patents Company, The. (See Barry, C. R., and McClelland, assignors.)
- Crown Cork and Seal Company of Baltimore City, The. (See Belden, Clements G., assignor.)
- Crown Cork and Seal Company of Baltimore City. (See Goebel, George, assignor.)
- Crown Cork & Seal Company of Baltimore City, The. (See Huntley, George J., assignor.)
- Crown Cork and Seal Company of Baltimore City, The. (See Kryzanowsky, Constant J., assignor.)
- Crown Cork and Seal Company of Baltimore City, The. (See Lloyd, Frank L., assignor.)
- Crown Cork and Seal Company of Baltimore City, The. (See Swinscoe, John, assignor.)
- Crown Cork and Seal Company of Baltimore City, The. (See Taylor, Samuel W., assignor.)
- Crown Die and Tool Company. (See Beck, Edward E., assignor.)
- Crown, Earl T., St. Petersburg, Fla. Easy-starting device for automobiles. No. 1,393,268; Oct. 11.
- Croyle, William I., Hellwood, Pa. Trap. No. 1,387,129; Aug. 9; v. 289; p. 303.
- Crozet, François, Condrieu, France. Embroidery. No. 1,375,951; Apr. 26; v. 285; p. 631.
- Crozet, François, Condrieu, France. Sewing-machine. No. 1,383,604; July 5; v. 288; p. 71.
- Crozier, Alfred O., New York, N. Y. Making faced cementitious products. No. 1,376,321; Apr. 26; v. 285; p. 702.
- Crozier, Alfred O., New York, N. Y. Method and machine for making cementitious products. No. 1,385,863; July 26; v. 288; p. 744.
- Crozier, Alfred O., New York, N. Y. Machine and making cementitious products. No. 1,385,864; July 26; v. 288; p. 744.
- Crozier, Michael A., New York, N. Y. Wrench. No. 1,370,733; Mar. 8; v. 284; p. 231.
- Cru Patents Corporation. (See Wenderhold, W., and Uebelmesser, assignors.)
- Cru Patents Corporation. (See Wenderhold, William, assignor.)
- Cruickshank, Arthur B., London, England. Heat-distributor. No. 1,392,868; Oct. 4.
- Cruise, Edgar L., Keystone, W. Va. Exhaust-whistle for motor-vehicles. No. 1,378,840; May 24; v. 286; p. 652.
- Cruise, James P., Carpenter, Miss. Cotton-picker. No. 1,374,827; Apr. 12; v. 285; p. 321.
- Cruise, Joseph P., Chicago, Ill. Razor-blade holder. No. 1,392,122; Sept. 27; v. 290; p. 745.
- Crum, Hollis B., assignor to Bucyrus Machine and Tool Co., Bucyrus, Ohio. Hydraulic steering-gear. No. 1,375,678; Apr. 26; v. 285; p. 579.
- Crumbaugh, Henry M., Louisville, Ky. Shipping-receptacle. No. 1,373,305; Mar. 29; v. 284; p. 891.
- Crumley, Julius A., Rossville, Ga. Hole-detector for knitting-machines. No. 1,369,489; Feb. 15; v. 283; p. 419.
- Crumlich, Robert H., Erie, Pa. Vulcanizing-press. No. 1,386,603; Aug. 9; v. 289; p. 197.
- Crumph, Frank H., Los Angeles, Calif. Magazine-binder. No. 1,376,799; May 3; v. 286; p. 79.
- Crumph, John B., Ballarat, Victoria, Australia. Apparatus for planting seed-potatoes. No. 1,401,885; Dec. 27.
- Crumph, Robert B. (See Muskin, J. N., and Crump.)
- Crupe, George W., Buffalo, assignor to Somet-Solvay Company, Solvay, N. Y. Distilling-column. No. 1,372,649; Mar. 22; v. 284; p. 719.
- Cruse, George M., Stockton, Calif. Skull-cap frame and guide. No. 1,398,842; Nov. 29.
- Crutchfield, Edward H., and A. F. Covert, Detroit, Mich. Bearing. No. 1,385,906; July 26; v. 288; p. 752.
- Cryer, Henry M., Goldthwaite, Tex. Windmill. No. 1,368,024; Feb. 8; v. 283; p. 280.
- Crysler, George P., Chicago, Ill. Grate structure. No. 1,369,883; Mar. 1; v. 284; p. 25.
- Csanyi, Henry, New York, N. Y. Carbureter. No. 1,398,067; Nov. 22.



- Csanyi, Henry, New York, N. Y. Storage battery. No. 1,401,676; Dec. 27.
- Cua, Domenick M., Sandusky, Ohio. Cue-straightener. No. 1,376,678; May 3; v. 286; p. 56.
- Cubbison, Paul J., New Castle, Pa. Shock-absorber. No. 1,367,866; Feb. 8; v. 283; p. 252.
- Cucinotta, Frank, New York, N. Y. Safety attachment for pocketbooks. No. 1,380,778; June 7; v. 287; p. 86.
- Cucullu, Henry, New Orleans, La. Water-toboggan. No. 1,399,469; Dec. 6.
- Cucumel, Joseph, Lyon, France. Apparatus for finishing velvet and other nap fabrics. No. 1,390,093; Sept. 6; v. 290; p. 108.
- Cudlipp, George R., assignor to Sunshine Amusement and Properties Co., Los Angeles, Calif. Amusement device. No. 1,400,497; Dec. 13.
- Culbertson, Charles B., Pasadena, Calif. Reversible plow. No. 1,367,127; Feb. 1; v. 283; p. 49.
- Culbertson, Moses, Kelfield, Saskatchewan, Canada. Train stop-signal. No. 1,383,908; July 5; v. 288; p. 134.
- Culhane, Patrick J., Jr., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Severing bars. No. 1,366,063; Jan. 18; v. 282; p. 474.
- Cullen, Andrew, Massillon, Ohio. Guide-box for rolling-mills. No. 1,398,843; Nov. 29.
- Cullen, Harry S., assignor of one-half to G. L. Fulton, Wellington, New Zealand. Food preparation and making same. No. 1,373,651; Apr. 5; v. 285; p. 52.
- Cullen, William B., Westfield, Mass. Trolley-wheel. No. 1,376,408; May 3; v. 286; p. 6.
- Cullen, Henrietta. (See Johnson, F. D., and Cullen.)
- Culley, Alfred E., Stapenhill, Burton-on-Trent, England. Loading device. No. 1,379,746; May 31; v. 286; p. 897.
- Culley, Walter E., assignor to Simond's Manufacturing Company, Fitchburg, Mass. Separable-tooth saw. (Re-issue.) No. 15,038; Feb. 15; v. 283; p. 516.
- Cullin, Jasper F., assignor to W. J. Hartwig, Detroit, Mich. Commutator-insulation-testing device. No. 1,372,945; Mar. 29; v. 284; p. 820.
- Cullin, Jasper F., assignor to W. J. Hartwig, Detroit, Mich. Armature insulation. No. 1,375,133; Apr. 19; v. 285; p. 442.
- Cullin, Jasper F., assignor to W. J. Hartwig, Detroit, Mich. Wrapping-machine. No. 1,380,531; June 7; v. 287; p. 39.
- Cullin, Jasper F., assignor, by mesne assignments, to W. J. Hartwig, Detroit, Mich. Insulation for armatures. No. 1,392,557; Oct. 4.
- Cullin, Jasper F., assignor to W. J. Hartwig, Detroit, Mich. Coil-winder. No. 1,397,316; Nov. 15.
- Cullinan, Arthur P. (See Jones, H. S., and Cullinan.)
- Cullinan, John J., Bradford, Pa. Amusement device. No. 1,395,261; Nov. 1.
- Cullinan, Thomas F., Providence, R. I. Stake-holding device. No. 1,383,986; July 5; v. 288; p. 151.
- Cully, Marle J., Chicago, Ill. Electrically-heated hair-waving device. No. 1,378,012; May 17; v. 286; p. 421.
- Cully, William L., New York, N. Y., assignor to The Cutter-Hammer Mfg. Co., Milwaukee, Wis. Battery-charging system. No. 1,400,268; Dec. 13.
- Culman, Carl, Maplewood, Mo. Calipers for pivot testing, truing, and poising of balance shafts and wheels. No. 1,393,203; Oct. 11.
- Culp, Arthur J., Clanton, Ala. Engine. No. 1,376,516; May 3; v. 286; p. 26.
- Culp, Jay S., Cleveland, assignor to The Reliance Wheel Co., Youngstown, Ohio. Pressed-steel wheel. No. 1,375,899; Apr. 26; v. 285; p. 621.
- Culp, Jay S., Cleveland, assignor to The Reliance Wheel Co., Youngstown, Ohio. Pressed-steel vehicle-wheel. No. 1,375,900; Apr. 26; v. 285; p. 621.
- Culshaw, Thomas, Malvern, Victoria, Australia. Construction of ceilings. No. 1,394,714; Oct. 25.
- Culter & Proctor Stove Co. (See Sass, Fred J., assignor.)
- Culver, Clarence C., U. S. Army. Localizer. No. 1,393,431; Oct. 11.
- Culver, Fred A. (See Stearns, J. C., and Culver.)
- Culver, John F., Los Angeles, Calif. Scoring device. No. 1,394,715; Oct. 25.
- Culver, Lagar R., Portland, Oreg. Keyhole-guard. No. 1,392,404; Oct. 4.
- Culwell, Vinson S., and O. A. Bibb, Warrior, Ala. Float-controlled oil-gage. No. 1,401,140; Dec. 27.
- Cumfer, Harry, Chicago, Ill., and O. D. McFarland, Mishawaka, Ind., assignors of one-fourth to C. F. Hofmann and one-fourth to G. P. Heppes, Chicago, Ill. Making prepared roofing. No. 1,394,149; Oct. 18.
- Cumming, Thomas, Los Angeles, Calif. Jewelry-setting. No. 1,389,031; Aug. 30; v. 289; p. 844.
- Cummings, Andrew S., Tacoma, Wash. Combined burglar lock and alarm. No. 1,387,594; Aug. 16; v. 289; p. 448.
- Cummings, Arthur M., Aberdeen, Md. Locking device for automobile-wheels. No. 1,390,674; Sept. 13; v. 290; p. 317.
- Cummings, Charles J., Tully, N. Y. Plow for potato-harvesters. No. 1,371,226; Mar. 15; v. 284; p. 387.
- Cummings, Elmer D., Washington, D. C. Ammunition hoist. No. 1,381,084; June 7; v. 287; p. 146.
- Cummings, George C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraphy. No. 1,367,305; Feb. 1; v. 283; p. 84.
- Cummings, George C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,367,733; Feb. 8; v. 283; p. 226.
- Cummings, George C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,375,281; Apr. 19; v. 285; p. 471.
- Cummings, Henry H., Boston, Mass., assignor of one-half to H. R. Gary, Alexandria, Va. Torsion-meter. No. 1,369,087; Feb. 22; v. 283; p. 575.
- Cummings, Howard B. (See Gausewitz, W. H., and Cummings.)
- Cummings, Jay H., Elmira, N. Y. Automatic rough-grinding mechanism for piston-rings. No. 1,393,668; Oct. 11.
- Cummings, John E., Wyoming, R. I. Cultivator-hoe. No. 1,396,733; Nov. 15.
- Cummings, Matthew, Boston, Mass. Smoke-consuming furnace. No. 1,368,389; Feb. 15; v. 283; p. 399.
- Cummins, Norman W., assignor to The Bassick Company, Bridgeport, Conn. Lubricant-nipple. No. 1,391,942; Sept. 27; v. 290; p. 708.
- Cummins, Norman W., assignor to The Bassick Company, Bridgeport, Conn. Hood-catch. No. 1,398,319; Nov. 29.
- Cunmer, Matthew S., New York, N. Y. Vise. No. 1,370,747; May 31; v. 286; p. 897.
- Cundall, Robert N. (See Wright, K. K., and Cundall.)
- Cunerty, Terence J., Toronto, Ontario, Canada. Atomizing oil-burner. No. 1,399,006; Dec. 6.
- Cunha, Anthony M., Providence, R. I. Wrench. No. 1,370,194; Mar. 1; v. 284; p. 83.
- Cunningham, George T. (See Possinger, W. E., and Cunningham.)
- Cunniff, Edward A., Fall River, assignor to Draper Corporation, Hopedale, Mass. Spindle. No. 1,394,668; Oct. 25.
- Cunniff, Edward A., New Bedford, and J. V. Cunniff, Fall River, assignors to J. K. Lanning, Boston, Mass. Replenishing-loom. No. 1,375,036; Apr. 19; v. 285; p. 424.
- Cunniff, Edward A. and J. V., Fall River, assignors to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,392,817; Oct. 4.
- Cunniff, Edward A. and J. V., Fall River, assignors to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,392,818; Oct. 4.
- Cunniff, John V. (See Cunniff, Edward A. and J. V.)
- Cunniff, John V., assignor of one-half to Patten Bros., Inc., Fall River, Mass. Winding-machine. No. 1,375,568; Apr. 19; v. 285; p. 525.
- Cunningham, Albert P. (See Reece, F. S., and Cunningham.)
- Cunningham, Albina J., Bridgewater, Mass. Lid-holder. No. 1,390,766; Sept. 13; v. 290; p. 334.
- Cunningham, Auren A., assignor of one-half to G. P. Wieg, Omaha, Nebr. Mop-bucket. No. 1,392,483; Oct. 4.
- Cunningham, Charles G., New York, N. Y., assignor to Elevator Supplies Co., Inc. Lubricating device. No. 1,386,604; Aug. 9; v. 289; p. 197.
- Cunningham, Cleveland-Pittsburg, Kans. Plowing-tractor. No. 1,385,668; July 26; v. 288; p. 704.
- Cunningham, Earl K., et al. (See Franklin, Clarence E., assignor.)
- Cunningham, Edgar W., New Brunswick, N. J. Universal templet for structural-steel work. No. 1,382,271; June 21; v. 287; p. 480.
- Cunningham, Frank L., Calgary, Alberta, Canada. Mop. No. 1,384,555; July 12; v. 288; p. 318.
- Cunningham, Harry G., Los Angeles, Calif. Expanding-claw for moving-picture machines. No. 1,380,532; June 7; v. 287; p. 39.
- Cunningham, James, St. Louis, Mo., assignor to Demountable Spring Tire Company, New York, N. Y. Resilient wheel. No. 1,373,652; Apr. 5; v. 285; p. 52.
- Cunningham, James, Bathgate, assignor of one-half to Dickson and Mann Limited, Armadale, Linlithgowshire, Scotland. Handbrake for railway-vehicles. No. 1,397,797; Nov. 22.
- Cunningham, James O., Indianapolis, Ind. Carbureter. No. 1,382,063; June 21; v. 287; p. 441.
- Cunningham, John H., San Francisco, Calif. Printing-press attachment. No. 1,381,806; June 14; v. 287; p. 333.
- Cunningham, John J., Manchester, N. H. Covered metal roll. No. 1,381,286; June 14; v. 287; p. 235.
- Cunningham, John W., Manor, Pa. Multiple lathe tool-post. No. 1,366,249; Jan. 18; v. 282; p. 510.
- Cunningham Piano Company, The. (See Kennedy, Otis M., assignor.)
- Cunningham, Robert M., Louisville, Ky. Fastening means for flooring and the like. No. 1,380,362; June 7; v. 287; p. 7.
- Cunningham, Thomas, Philadelphia, Pa. Method and apparatus for stretching and pressing knit tubular fabrics. No. 1,401,589; Dec. 27.
- Cunningham, William B., Kansas City, Mo. Airplane-indicator. No. 1,399,423; Dec. 6.
- Cunningham, William C., assignor to Adams-Williams Mfg. Corporation, New York, N. Y. Automobile-body construction. No. 1,377,167; May 3; v. 286; p. 150.
- Cunningham, William P., Norristown, Pa. Apparatus for casting. No. 1,372,673; Mar. 29; v. 284; p. 764.
- Cunningham, William S., Shreveport, La. Transmission-gearing. No. 1,380,192; May 31; v. 286; p. 981.



## Alphabetical list of patentees—Continued.

- Cunningham, Charles A., assignor of one-half to H. H. Goldstone, Atlantic City, N. J. Hose-supporter. No. 1,373,306; Mar. 29; v. 284; p. 891.
- Cuno, Charles F., Meriden, Conn. Cigar-lighter. No. 1,378,013; May 17; v. 286; p. 421.
- Cuno, Charles F., Meriden, Conn. Switch. No. 1,378,660; May 17; v. 286; p. 545.
- Cuno, Charles F., Meriden, Conn. Automatic electric switch for cable-carrying drums. No. 1,388,452; Aug. 23; v. 289; p. 676.
- Cuntz, Hermann F., Hartford, Conn. Armored car. No. 1,370,951; Mar. 8; v. 284; p. 273.
- Cuomo, Angelo, Astoria, N. Y. Milk-bottle top. No. 1,374,719; Apr. 12; v. 285; p. 300.
- Cuper, John, Neffs, Ohio. Direction-indicator. No. 1,398,715; Nov. 29.
- Cureton, David D., Jr., Tallahassee, Fla. Automatic-stop oil-gage. No. 1,395,095; Oct. 25.
- Cureton, Horace A., Los Angeles, Calif. Radiator. No. 1,381,618; June 14; v. 287; p. 297.
- Curless, James M. (See Benjamin, R. B., and Curless.)
- Curley, Robert S., Lowell, assignor to Saco-Lowell Shops, Boston, Mass. Angular driving mechanism. No. 1,397,244; Nov. 15.
- Curly, John E., *et al.* (See Trova, Oswald, assignor.)
- Curnutt, Elmer, Garnett, Kans. Telephone system. No. 1,378,585; May 17; v. 286; p. 530.
- Curran, Edward T., Detroit, Mich. Radiator. No. 1,367,023; Feb. 1; v. 283; p. 28.
- Curran, Edward T., Detroit, Mich. Airplane-radiator. No. 1,374,190; Apr. 12; v. 285; p. 198.
- Curran, Edward T., Detroit, Mich. Radiator. No. 1,389,631; Sept. 6; v. 290; p. 14.
- Curran, Edward T., Detroit, Mich. Radiator. No. 1,389,744; Sept. 6; v. 290; p. 37.
- Curran, Edward T., Detroit, Mich. Airplane-radiator. No. 1,389,745; Sept. 6; v. 290; p. 37.
- Curran, Edward T., Detroit, Mich. Water-heater. No. 1,397,268; Nov. 15.
- Curran, Frank J. M., Grand Rapids, Mich. Refrigerator. No. 1,380,533; June 7; v. 287; p. 39.
- Curran, James R., Shenandoah, Iowa. Hog-oiler. No. 1,382,066; June 21; v. 287; p. 442.
- Curran, John J., West Haven, assignor to The American Agricultural Chemical Co., New Haven, Conn. Bag-handling apparatus. No. 1,383,790; July 5; v. 288; p. 111.
- Curran, John W., Newport, Ky. Arch-bar truck. No. 1,370,519; Mar. 8; v. 284; p. 190.
- Curran, Louis J., and G. F. Donnelly, South Meriden, Conn. Electrically-controlled weighing-scale. No. 1,376,138; Apr. 26; v. 285; p. 667.
- Curran, Richard L., West Caldwell, N. J. Photographic diaphragm. No. 1,368,608; Feb. 15; v. 283; p. 442.
- Curran, Thomas, Chillicothe, Ill. Automatic valve control. No. 1,387,130; Aug. 9; v. 289; p. 303.
- Curran, William, assignor of one-half to P. F. Tremblay, Lewiston, Me. Loom attachment. No. 1,372,605; Mar. 22; v. 284; p. 710.
- Curran, Harold S. (See Hughes, A. H., and Curran.)
- Currie, Alexander, Yonkers, N. Y. Dust-guard for car axle boxes. No. 1,391,998; Sept. 27; v. 290; p. 721.
- Currie, Alexander L., Sorel, Quebec, Canada. Track-signal. No. 1,371,227; Mar. 15; v. 284; p. 387.
- Currie, Neil. (See Perry, C., Jr., and Currie.)
- Currie, Otis C., Detroit, assignor to W. O. Albig, Adrian, Mich. Feeding device for sheets, envelopes, and the like. No. 1,373,869; Apr. 5; v. 285; p. 95.
- Currier, Andrew E., Millis, assignor to Safepack Mills, Boston, Mass. Manufacture of moistureproof craped paper. No. 1,390,276; Sept. 13; v. 290; p. 236.
- Currier, Andrew E., East Walpole, and A. F. Schenkelberger, Quincy, assignors to Safepack Paper Mills, Boston, Mass. Treating paper. No. 1,368,547; Feb. 15; v. 283; p. 431.
- Currier, Earl J., Ottumwa, Iowa. Safety foot-throttle for automobiles. No. 1,397,798; Nov. 22.
- Currier, Ernest E., Ipswich, Mass. Auxiliary subduing reflector for headlights. No. 1,381,404; June 14; v. 287; p. 257.
- Currier, Henry, Rose Hill, Iowa, deceased; H. Wymore, administrator. Fishing tool. No. 1,364,254; Jan. 4; v. 282; p. 40.
- Currier, Hiram D., Chicago, Ill. Connection terminal. No. 1,369,221; Feb. 22; v. 283; p. 601.
- Currier, Howard S., assignor to General Motors Corporation, Detroit, Mich. Motor-vehicle. No. 1,399,379; Dec. 6.
- Currier, James S., Newport, R. I., assignor to the Government of the United States. Torpedo. No. 1,394,284; Oct. 18.
- Curry, Benjamin F., Pomona, Calif. Adjustable square and bevel. No. 1,366,878; Jan. 25; v. 282; p. 679.
- Curry, Evan M., Altus, Okla. Spring-tire. No. 1,390,024; Sept. 6; v. 290; p. 94.
- Curry, Frederick H., Detroit, Mich. Shipping-standard for automobiles. No. 1,396,360; Nov. 8.
- Curry, Frederick H., assignor to Young Brothers Company, Detroit, Mich. Conveying apparatus for ovens, drying-rooms, and the like. No. 1,382,957; June 28; v. 287; p. 665.
- Curry, George A. (See Rasmussen, John P., assignor.)
- Curry, J. P., Mfg. Co. (See Foulder, Henry B., assignor.)
- Curry, John W., Cincinnati, Ohio. Traffic-directing apparatus. No. 1,382,482; June 21; v. 287; p. 521.
- Curry, Patrick, Chicago, Ill. Combined door-joint protector and name-plate for automobiles. No. 1,398,586; Nov. 29.
- Curth, Ralph C., Columbus, Ohio. Electric iron. No. 1,389,032; Aug. 30; v. 289; p. 844.
- Curtin, David F., Chicago, Ill. Container-dispenser. No. 1,367,948; Feb. 8; v. 283; p. 266.
- Curtin, David F., Chicago, Ill. Sanitary cup. No. 1,381,619; June 14; v. 287; p. 297.
- Curtin, Henry, Gloversville, N. Y. Tool-holder. No. 1,395,262; Nov. 1.
- Curtiss Aeroplane and Motor Corporation. (See Kirkham, Charles B., assignor.)
- Curtis, Arthur R. (See Monto, J., and Curtis.)
- Curtis, Arthur R., and C. E. Oathout, assignor to The Kaynee Company, Cleveland, Ohio. Printing-machine. No. 1,377,754; May 10; v. 286; p. 319.
- Curtis, Austen M., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Construction of reactance-coils. No. 1,367,734; Feb. 8; v. 283; p. 226.
- Curtis, Austen M., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Reduction of static interference in radioreceiving stations. No. 1,371,228; Mar. 15; v. 284; p. 387.
- Curtis, Austen M., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Radio-receiving system. No. 1,376,679; May 3; v. 286; p. 56.
- Curtis, Benjamin F., Poteau, Okla. Double-acting duplex pump. No. 1,400,477; Dec. 13.
- Curtis, Benjamin F., Poteau, Okla., assignor to Curtis Porcelain Pump Company. Twin-cylinder single-acting vertical-plunger pump. No. 1,400,422; Dec. 13.
- Curtis & Co., Mfg. Co. (See Steedman, Edwin H., assignor.)
- Curtis, Edma H., Jr., Norwood, Ohio. Glassware-machine. No. 1,386,240; Aug. 2; v. 289; p. 56.
- Curtis, Frank C., Troy, N. Y. Metallurgical furnace. No. 1,376,680; May 3; v. 286; p. 56.
- Curtis, George V., West Springfield, Mass. Clip. No. 1,374,882; Apr. 12; v. 285; p. 332.
- Curtis, George V., West Springfield, Mass. Universal joint. No. 1,389,422; Aug. 30; v. 289; p. 921.
- Curtis, Henry E., San Jose, Calif. Evaporator. No. 1,399,692; Dec. 6.
- Curtis, Homer P., assignor of one-half to The Plains Iron Works Company, Denver, Colo. Pipe-bending machine. No. 1,401,394; Dec. 27.
- Curtis, Horace K., and L. T. Hunter, assignors of one-third to J. I. D. Bristol, Chappaqua, N. Y. Bottle-capping machine. No. 1,391,647; Sept. 20; v. 290; p. 575.
- Curtis, James C., Newcastle, Calif. Egg-opener. No. 1,369,625; Feb. 22; v. 283; p. 670.
- Curtis, Lewis B., Bridgeport, Conn. Cutting-off machine. No. 1,386,163; Aug. 2; v. 289; p. 40.
- Curtis, Lula P., Los Angeles, Calif. Adjustable copy-holder. No. 1,400,730; Dec. 20.
- Curtis & Mfg. Co. (See Ackermann, F., and Frees, assignors.)
- Curtis, O. D., assignor of one-half to R. H. Prignall, two-fifths to G. E. Crane, Kalamazoo, and one-tenth to R. Myers, Breedsville, Mich. Hook or coupling for tow-lines. No. 1,396,098; Nov. 8.
- Curtis Porcelain Pump Company. (See Curtis, Benjamin F., assignor.)
- Curtis, Theron S., assignor to T. I. Smith Company, North Attleboro, Mass. Pin for holding soft collars. No. 1,398,483; Nov. 29.
- Curtis, Van V., Follansbee, W. Va. Automobile-jack. No. 1,390,090; Sept. 6; v. 290; p. 107.
- Curtiss Aeroplane and Motor Corporation. (See Bedell, Clayton E., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Burgess, William S., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Cawthra, Ernest H., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Coffin, Joseph G., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Curtiss, G. H., and Kleckler, assignors.)
- Curtiss Aeroplane and Motor Corporation. (See Curtiss, Glenn H., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Freund, Carl E., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Gilmore, W. L., and Meade, assignors.)
- Curtiss Aeroplane and Motor Corporation. (See Gilmore, William L., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Kemble, Thomas S., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Kirkham, C. B., and Thurston, assignors.)
- Curtiss Aeroplane and Motor Corporation. (See Kirkham, Charles B., assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Kleckler, Henry, assignor.)
- Curtiss Aeroplane and Motor Corporation. (See Roloson, Clayton L., assignor.)
- Curtiss, Arthur F., Portland, Oreg., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Ledger-posting-machine cabinet. No. 1,376,608; May 3; v. 286; p. 43.



- Curtiss, Charles E., Clinton, Wis. Friction-driven automobile power-jack. No. 1,383,450; July 5; v. 288; p. 40.
- Curtiss, Edward T., Los Angeles, Calif. Timer. No. 1,380,316; May 31; v. 286; p. 1005.
- Curtiss, George L., Plantsville, assignor to The Southington Hardware Co., Southington, Conn. Metal handle for trowels. No. 1,369,762; Feb. 22; v. 283; p. 706.
- Curtiss, Glenn H., assignor to Curtiss Aeroplane and Motor Corporation, Garden City, N. Y. Airplane Wing Construction. No. 1,364,614; Jan. 4; v. 282; p. 109.
- Curtiss, Glenn H., Hammondsport, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Aileron braking system. No. 1,368,548; Feb. 15; v. 283; p. 431.
- Curtiss, Glenn H., Garden City, assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Airplane construction. No. 1,368,549; Feb. 15; v. 283; p. 431.
- Curtiss, Glenn H., Garden City, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Triplane. No. 1,368,550; Feb. 15; v. 283; p. 431.
- Curtiss, Glenn H., Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Streamline wiring for airplanes. No. 1,392,271; Sept. 27; v. 290; p. 774.
- Curtiss, Glenn H., Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Airplane landing-gear. No. 1,392,272; Sept. 27; v. 290; p. 775.
- Curtiss, Glenn H., Garden City, and H. Kleckler, Hammondsport, assignors to Curtiss Aeroplane and Motor Corporation, Garden City, N. Y. Fuel-supply system for aircraft and similar apparatus. No. 1,386,846; Aug. 4; v. 289; p. 247.
- Curts, Milo L., Bloomington, Ind. Adjustable blackboard T-square. No. 1,399,935; Dec. 13.
- Cusack, Thomas, assignor to The Thos. Cusack Company, Chicago, Ill. Headplate for signboards. No. 1,384,743; July 19; v. 288; p. 438.
- Cusack, Thos., Co., The. (See Cusack, Thomas, assignor.)
- Cushing, Erwin H. (See Offutt, Thomas M., assignor.)
- Cushing, William H., assignor of one-third to J. H. Mercer and one-sixth to P. J. McBride, Topeka, Kans. Storing and curing ensilage. No. 1,390,341; Sept. 13; v. 290; p. 248.
- Cushman, Allerton S., Washington, D. C. Metal-coatings tester. No. 1,372,405; Mar. 22; v. 284; p. 672.
- Cushman, Allerton S., Washington, D. C. Antiseptic solution. No. 1,399,007; Dec. 6.
- Cushman, Everett B., assignor to The Pierson Manufacturing Company, Topeka, Kans. Oil-feeder. No. 1,369,327; Feb. 22; v. 283; p. 620.
- Cushman, Everett B., assignor to The Pierson Manufacturing Company, Topeka, Kans. Automatic oil-feed. No. 1,375,748; Apr. 26; v. 285; p. 592.
- Cushman, Everett B., assignor to The Pierson Manufacturing Company, Topeka, Kans. Clutch. No. 1,391,668; Sept. 27; v. 290; p. 652.
- Cushman, Fred, assignor of one-half to C. J. Stephanus, Seattle, Wash. Ore-separator. No. 1,368,901; Feb. 15; v. 283; p. 499.
- Cusi, Lorenzo, New York, N. Y. Flytrap. No. 1,370,414; Mar. 1; v. 284; p. 124.
- Cusick, Hyland L., Pittsburgh, Pa. Combination-holder. No. 1,375,569; Apr. 19; v. 285; p. 526.
- Custer, Bessie, Satanta, Kans. Union-garment. No. 1,392,303; Oct. 4.
- Custer, Levitt L., Dayton, Ohio. Driving mechanism for automobiles. No. 1,391,098; Sept. 20; v. 290; p. 464.
- Cuthbert, John, Company. (See Cuthbert, J., and Nielsen, assignors.)
- Cuthbert, John, and J. J. Nielsen, said Cuthbert assignor of his right to John Cuthbert Company, Chicago, Ill. Panel-board structure and branch-block units. No. 1,389,343; Aug. 30; v. 289; p. 906.
- Cuthbertson, Earl L., Alton, Ill. Vehicle direction-signal. No. 1,382,627; June 28; v. 287; p. 602.
- Cutler-Hammer Mfg. Co., The. (See Barnum, Thomas E.)
- Cutler-Hammer Mfg. Co., The. (See Carpenter, Charles E., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Cully, William L., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Dicks, Henry, assignor.)
- Cutler-Hammer Mfg. Co., The. (See Evans, C. T., and Hunter, assignors.)
- Cutler-Hammer Mfg. Co., The. (See Hadaway, William S., Jr., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Klein, Charles J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Lightfoot, Edwin N., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Meyer, Friedrich W., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Peoples, John S., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Re Qua, Frederick L., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Simon, Arthur, assignor.)
- Cutler-Hammer Mfg. Co., The. (See Stevens, William C., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Stoekle, Erwin R., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Van Vleet, Roy M., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Wiegand, Henry J., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Yerger, Charles W., assignor.)
- Cutler, William C., North Glendale, Calif. Information displaying device. No. 1,380,200; May 31; v. 286; p. 1000.
- Cutler, William C., North Glendale, Calif. Information device. No. 1,381,860; June 14; v. 287; p. 342.
- Cutler, William C., North Glendale, Calif. Automatic information device. No. 1,384,306; July 12; v. 288; p. 266.
- Cutler, William C., North Glendale, Calif. Information storing and displaying device. No. 1,385,116; July 19; v. 288; p. 516.
- Cutler, Willis L., LeGrand, Iowa. Plastic block structure. No. 1,382,824; June 28; v. 287; p. 640.
- Cutright, Ishmael G. (See Sharps, J. A., and Cutright.)
- Cutright, Ishmael G., and J. A. Sharps, assignors to The Cutright Sharps Company, Inc., Buckhannon, W. Va. Shade-roller. No. 1,389,579; Sept. 6; v. 290; p. 4.
- Cutright Sharps Company, Inc., The. (See Cutright, I. G., and Sharps, assignors.)
- Cutright Sharps Company, The. (See Sharps, J. A., and Cutright, assignors.)
- Cutshaw, Howard M., Greeneville, Tenn. Typewriter-eraser. No. 1,376,322; Apr. 26; v. 285; p. 702.
- Cutten, Elisha B., Minneapolis, Minn. Electrolytic cell. No. 1,397,799; Nov. 22.
- Cutter, George, Company. (See Larkins, Ernest M., assignor.)
- Cutter, Solomon M., assignor to Capewell Horse Nail Company, Hartford, Conn. Nail-string machine. No. 1,397,204; Nov. 15.
- Cutting, Fulton, Tuxedo Park, N. Y., and B. Washington, Cambridge, Mass. Production of high-frequency oscillations. No. 1,366,311; Jan. 18; v. 282; p. 522.
- Cutting, Fulton, Tuxedo Park, N. Y., and B. Washington, Cambridge, Mass. Production of electrical-current pulses. No. 1,377,059; May 3; v. 286; p. 130.
- Cuttitta, Vincent, New York, N. Y. Tire-filler. No. 1,369,626; Feb. 22; v. 283; p. 680.
- Cutts, Richard, Swampscott, assignor of one-half to Renton Heel Company, Lynn, Mass. Unattached heel. No. 1,395,263; Nov. 1.
- Cuvellier, Louis, Halifax, Nova Scotia, Canada. Shoe-heel. No. 1,368,902; Feb. 15; v. 283; p. 499.
- Cwik, Adam. (See Fraccascia, F., and Ercolani, assignors.)
- Cwirk, Kazimir, New York, N. Y. Dish-washing machine. No. 1,381,107; June 14; v. 287; p. 203.
- Cwojna, Albert, Carnegie, Pa. Railway-switch. No. 1,388,700; Aug. 23; v. 289; p. 722.
- Cyclomotor Corporation. (See Evans, Leigh R., assignor.)
- Cyclomotor Corporation. (See Madden, Bert L., assignor.)
- Cyclomotor Corporation. (See Merkel, Joseph F., assignor.)
- Cyclone Fence Company. (See Slomer, Joseph, assignor.)
- Cypert, Joseph A., Kansas City, Mo. Hair-cutter's comb. No. 1,372,800; Mar. 29; v. 284; p. 790.
- Cyr, Alexandre, Iberville, Quebec, Canada. Pulley. No. 1,400,142; Dec. 13.
- Cyrt, John, Beatty, Nev. Air-inlet valve for internal-combustion engines. No. 1,369,627; Feb. 22; v. 283; p. 680.
- Czaran, Otto, Long Island City, N. Y. Making belting. No. 1,391,302; Sept. 20; v. 290; p. 506.
- Czarev, John J., West Allis, Wis. Attrition-mill plate. No. 1,368,609; Feb. 15; v. 283; p. 443.
- Czarniecki, Andrew J., Plymouth, Pa. Mechanical brake. No. 1,366,523; Jan. 25; v. 282; p. 608.
- Czarnowsky, Herbert F., et al. (See Stenner, Edgar J., assignor.)
- Czerny, Stanislaus, San Francisco, Calif. Bottle-closure. No. 1,368,703; Feb. 15; v. 283; p. 461.
- Czerwinski, Joseph, Chicago, Ill. Belt-buckle. No. 1,385,865; July 26; v. 288; p. 744.
- Czerwonka, Joseph, Chicago, Ill. Roundabout. No. 1,382,173; June 21; v. 287; p. 461.
- Czieslik, Frank H. (See Smith, Arthur D., assignor.)
- Czyz, Michal, Toledo, Ohio. Combination-lock. No. 1,391,999; Sept. 27; v. 290; p. 721.
- Czyzowicz, Michal, and J. Szumilas, Chicago, Ill. Red-beet gatherer. No. 1,377,468; May 10; v. 286; p. 265.
- D-G Storage Battery Co. (See Gardiner, William, assignor.)
- D & L Mfg. Co. (See Dorn, H. C., and Luedke, assignors.)
- D & L Slade Company. (See Esselen, Gustavus J., Jr., assignor.)
- D & M. Autoparts Co. (See Doan, H. C., and Marson, assignors.)
- D. O. T. Societe Anonyme pour l'Exploitation des brevets Descalles. (See Descalles, Eugene M. O., assignor.)
- Daab, John A., New York, N. Y. Automobile-top closure. No. 1,401,395; Dec. 27.
- Dabbs, Albert E. (See Hindle, A. H., Savage, Dabbs, and Little.)
- Dace, Wilbur M., Rushville, Ill. Rim and tire carrier. No. 1,381,972; June 21; v. 287; p. 424.
- Da Costa, Arthur V., Providence, R. I. Toy. No. 1,394,669; Oct. 25.



*Alphabetical list of patents--Continued.*

- Da Costa, Arthur V., Providence, R. I. Swinging figure toy. No. 1,394,670; Oct. 25.
- Da Cruz, Julio L. V., Lisbon, Portugal. Electrical firing of explosive mines. No. 1,364,615; Jan. 4; v. 282; p. 109.
- Dacus, J. A., *et al.*, trustees. (See Kerr, Augustus H., assignor.)
- Dade, Jesse E., Littlefork, assignor to Universal Safety Suit Co., Inc., Minneapolis, Minn. Protective suit. No. 1,401,677; Dec. 27.
- Dade, Thomas G., South Fort Smith, Ark. Wheel. No. 1,386,164; Aug. 2; v. 289; p. 40.
- Daffron, Hencel, and C. C. Pullem, Detroit, Mich. Trolley-head. No. 1,381,807; June 14; v. 287; p. 334.
- Daggett, George W., North Girard, Pa. Automatic pressure-regulated air-valve. No. 1,393,204; Oct. 11.
- Dagory, Alain E. A., Bois Colombes, France. A compound for the automatic removal of copper from ordnance. No. 1,366,167; Jan. 18; v. 282; p. 494.
- D'Agostino, Giuseppe, Niagara Falls, N. Y. Steering-wheel lock. No. 1,366,719; Jan. 25; v. 282; p. 647.
- Dahl, Charles M., Charlottesville, Va. Mechanical horse. No. 1,369,628; Feb. 22; v. 283; p. 680.
- Dahl, Conrad, Chicago, Ill. Vehicle-propelling device. No. 1,368,610; Feb. 15; v. 283; p. 443.
- Dahl, Conrad, Chicago, Ill. Vehicle steering mechanism. No. 1,368,611; Feb. 15; v. 283; p. 443.
- Dahl, Conrad, Chicago, Ill. Occupant-propelled sliding vehicle. No. 1,377,402; May 10; v. 286; p. 252.
- Dahl, John L., Teaneck, N. J. Stake-pocket. No. 1,397,725; Nov. 22.
- Dahl, Nekolai, Trondhjem, Norway. Freezing of fish and other articles of food. No. 1,367,024; Feb. 1; v. 283; p. 28.
- Dahl, Ole, Muskegon, Mich. Packing-box. No. 1,387,690; Aug. 16; v. 289; p. 466.
- Dahlberg, Arthur O., Ann Arbor, Mich., assignor of one-third to W. Zeiss, Chicago, Ill. Fountain-pen indicator. No. 1,365,463; Jan. 11; v. 282; p. 317.
- Dahlberg, B. G. (See Shaw, John K., assignor.)
- Dahlburg, John M., Atlantic, Iowa. Doubletree. No. 1,369,222; Feb. 22; v. 283; p. 601.
- Dahlgren, Fred, Strandburg, S. D. Fishhook. No. 1,390,767; Sept. 13; v. 290; p. 334.
- Dahlgren, Leonard, assignor to Filikwik Company, Attleboro, Mass. Cigarette-case. No. 1,366,560; Jan. 25; v. 282; p. 615.
- Dahlgren, Matts, Falköping-Ranten, Sweden. Window-catch. No. 1,394,253; Oct. 18.
- Dahlke, Fredrick J., Damascus, Ohio. Refrigerator. No. 1,370,584; Mar. 8; v. 284; p. 202.
- Dahlke, Rudolph. (See Pfahlf, Robert, assignor.)
- Dahlquist, Charles S., assignor to The Standard Parts Company, Cleveland, Ohio. Axle. No. 1,396,025; Nov. 8.
- Dahlstrom, John. (See Thomas, H., and Dahlstrom.)
- Dahlstrom, John, Pittsburgh, Pa. Shock-absorber. No. 1,380,780; June 7; v. 287; p. 87.
- Dahlstrom, John, Pittsburgh, Pa. Shock-absorber. No. 1,380,781; June 7; v. 287; p. 87.
- Dailey, Edward J., Jr., New York, N. Y. Lamp. No. 1,393,432; Oct. 11.
- Dailey, Edward J., Jr., New York, N. Y., assignor to Holophane Glass Co., Inc. Shade-holder. No. 1,387,474; Aug. 16; v. 289; p. 423.
- Dailing, John A., Quincy, Ill., assignor of one-half to A. Badamo. Head-block for hay-balers. No. 1,380,639; June 7; v. 287; p. 69.
- Daily, William T., Mount Calm, Tex. Oil-burner. No. 1,370,520; Mar. 8; v. 284; p. 190.
- Dain, Joseph, assignor to Deere and Company, Moline, Ill. Tractor. No. 1,390,986; Sept. 20; v. 290; p. 441.
- Dain, Joseph, deceased, by J. Dain, Jr., administrator, Moline, Ill., assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Side-delivery rotary rake. No. 1,371,411; Mar. 15; v. 284; p. 425.
- Dain, Joseph, deceased, by Joseph Dain, Jr., administrator, Moline, Ill., assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Side-delivery rake. No. 1,399,197; Dec. 6.
- Dain, Joseph, Jr., administrator. (See Dain, Joseph.)
- Dain, Joseph D., Jr., administrator. (See Dain, Joseph.)
- Dain Manufacturing Company of Iowa, The. (See Bowers, Robert R., assignor.)
- Dain Manufacturing Company of Iowa, The. (See Clausen, Leon R., assignor.)
- Dain Manufacturing Company of Iowa, The. (See Dain, Joseph, assignor.)
- Dain Manufacturing Company of Iowa, The. (See Moschel, Herman, assignor.)
- Daisy Manufacturing Co. (See Lefever, Charles F., assignor.)
- Dake, Charles W., Chicago, Ill. Adjustable hub-plate. No. 1,393,883; Oct. 18.
- Dake, Charles W., Chicago, Ill. Adjustable hub-plate. No. 1,393,884; Oct. 18.
- Dake, Charles W., Chicago, Ill., assignor of one-half to C. W. Rice, Grand Rapids, Mich. Paneled Structure. No. 1,371,667; Mar. 15; v. 284; p. 175.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Steam-turbine. No. 1,377,755; May 10; v. 286; p. 319.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Nozzle guide-passage. No. 1,397,085; Nov. 15.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Steam-turbine and governor. No. 1,397,086; Nov. 15.
- Dake, Charles W., assignor to Smith Locomotive Adjustable Hub Company, Chicago, Ill. Adjustable hub-plate. No. 1,397,083; Nov. 15.
- Dake, Charles W., assignor to Smith Locomotive Adjustable Hub Company, Chicago, Ill. Adjustable hub-plate. No. 1,397,084; Nov. 15.
- Dakin, Herbert E., Limited. (See Dakin, Herbert E., assignor.)
- Dakin, Herbert Ernst, assignor to H. E. Dakin, Limited, London, England. Permutation-lock for automobiles. No. 1,385,343; July 19; v. 288; p. 561.
- Dalbey, Ross M., *et al.* (See Packwood, Charles W., assignor.)
- Dalbey, William C., Du Quoin, Ill., assignor by mesne assignments, to Dentists' Supply Company. Gage for selecting artificial teeth. No. 1,378,527; May 17; v. 286; p. 519.
- Dalboni, Carlo. (See Glisconi, E., and von Beck, assignors.)
- Dalby, William J., Magill, South Australia, Australia. Apparatus for facilitating the supply of oil to engines of motor-cars or other engines. No. 1,364,726; Jan. 4; v. 282; p. 131.
- Dalcher, John T., Jersey City, N. J. Oil-burner for stoves, furnaces, &c. No. 1,396,166; Nov. 8.
- Dale, Charles O., assignor of one-half to A. Peterson, Seattle, Wash. Log-bunk. No. 1,374,284; Apr. 12; v. 285; p. 216.
- Dale, Clifford, assignor of one-fourth to L. Dale, Wabash, Ind. Silo-stave. No. 1,370,415; Mar. 1; v. 284; p. 125.
- Dale, Harry T., New York, N. Y. Amplifier for telephonic transmitters. No. 1,378,940; May 24; v. 286; p. 671.
- Dale, Lena. (See Dale, Clifford, assignor.)
- Dalén, Gustaf, Lidingö, Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Rotating gas-lighting apparatus. No. 1,385,816; July 26; v. 288; p. 734.
- Dales, John P., *et al.* (See Bruner, Rudolph, assignor.)
- D'Alessandro, Pietro, trustee. (See D'Alessandro, Pietro, assignor.)
- D'Alessandro, Pietro, Syracuse, N. Y., assignor to P. D'Alessandro, trustee. Powder-distributing brush. No. 1,401,508; Dec. 27.
- Dalglish, John E., Somerville, Mass. Wall-board. No. 1,386,554; Aug. 2; v. 289; p. 115.
- Daliet, Casper O. (See Wallace, William S., assignor.)
- Dallimore, George W., Oakland, Calif. Roller-bearing cage for railway journal-boxes. No. 1,377,670; May 10; v. 286; p. 303.
- Dallimore, Henry B., Brooklyn, N. Y. Gas-heater. No. 1,373,307; Mar. 29; v. 284; p. 891.
- Dallman, Frank R. (See Boyle, W. J., Sr., and Dallman.)
- Dalmas, Victor P. (See Gatewood, W. B., and Dalmas.)
- Daloz, Gaston J., Courbevoie, France. Compressor. No. 1,394,811; Oct. 25.
- Dalrymple, Burton W., Glasco, Kans. Conveyer-slat splice. No. 1,383,451; July 5; v. 288; p. 40.
- Dalton Adding Machine Company, The. (See Landsiedel, Harry, assignor.)
- Dalton, Charles. (See Dalton, John T. and C.)
- Dalton, James, Los Angeles, and B. C. De Meulle, Long Beach, Calif., assignors to Dalton Oven Co., Long Beach, Calif. Reel-oven. No. 1,399,750; Dec. 13.
- Dalton, John T. and C., Berry Brow, near Huddersfield, England. Clutch for the engagement and disengagement of shafts. No. 1,376,007; Apr. 26; v. 285; p. 641.
- Dalton, Lena F., Portland, Oreg. Automobile stop-signal. No. 1,376,746; May 3; v. 286; p. 69.
- Dalton, Lloyd H., Coffeyville, Kans. Display-holder. No. 1,380,534; June 7; v. 287; p. 40.
- Dalton Oven Co. (See Dalton J., and De Meulle, assignors.)
- Dalton, Thomas, Chicago, Ill. Mop-holder. No. 1,401,051; Dec. 20.
- Dalzell, Thomas J., Wakefield, Mass. Calculating device. No. 1,397,944; Nov. 22.
- Dam, Henry R., assignor of one-half to J. Block, Brooklyn, N. Y. Rechargeable electric battery. No. 1,377,060; May 3; v. 286; p. 130.
- Daman, Arthur C. (See Gordon, R. W., and Daman.)
- Damascus Brake Beam Company, The. (See Maher, P. L., Schmidt, and Kennedy, assignors.)
- Damiani, Godfrey R., Chicago, Ill. Door-silencer. No. 1,396,167; Nov. 8.
- Damm, Edward J. (See Eichelberger, John D., assignor.)
- Damon, George N., assignor to The Lorain Rubber Heel Company, Lorain, Ohio. Rubber heel and insert therefor. No. 1,387,243; Aug. 9; v. 289; p. 324.
- Damon, William H., Los Angeles, Calif. Sun and rain shield for automobiles. No. 1,394,254; Oct. 18.
- Damon, William H., Los Angeles, Calif. Dispensing vessel. No. 1,401,763; Dec. 27.
- Damon, William H., Chicago, Ill. Polish and making the same. No. 1,398,891; Nov. 29.
- Dana Cotton Harvester Company. (See Gabriel, G. A., and Skillins, assignors.)



*Alphabetical list of patentees—Continued.*

- Dana, Earl E., Stockport, Iowa. Chain-clasp. No. 1,377,187; May 10; v. 286; p. 210.
- Danberg, Fred W., Toledo, Ohio. Article-delivery mechanism. No. 1,381,287; June 14; v. 287; p. 235.
- Danciewicz, Antoni, and W. R. Whitaker, Ludington, Mich. Combination furniture. No. 1,375,570; Apr. 19; v. 285; p. 526.
- Danckwardt, Paul, Denver, Colo. Production of gasoline from crude oil. No. 1,373,653; Apr. 5; v. 285; p. 52.
- Danckwardt, Paul, Denver, Colo. The production of hydrocarbons of low boiling-points from hydrocarbons of high boiling-points. No. 1,373,654; Apr. 5; v. 285; p. 53.
- Danckwardt, Paul, assignor to The Danckwardt Process Company, Denver, Colo. Production of anhydrous zinc chlorid. No. 1,369,729; Feb. 22; v. 283; p. 700.
- Danckwardt, Paul, assignor to The Danckwardt Process Company, Denver, Colo. Producing zinc chlorid. No. 1,378,219; May 17; v. 286; p. 461.
- Danckwardt Process Company, The. (See Danckwardt, Paul, assignor.)
- Dandeville, Leontine. (See Levè, M. S., and de Laitte, assignor.)
- Dandridge, Edward P., Philadelphia, Pa. Conveying means. No. 1,380,886; June 7; v. 287; p. 108.
- Dane, Clayton A., and A. A. Kraemer, Philadelphia, Pa., assignor to The Hess-Bright Manufacturing Company. Cage for antifriction-bearings. No. 1,392,920; Oct. 11.
- Danforth, George L., Jr., Chicago, Ill. Ingot-stripping mechanism. No. 1,398,844; Nov. 29.
- Danger, Hans H. F., Hamburg, Germany. Change-speed belt-drive. No. 1,396,168; Nov. 8.
- Dangl, Adolf, Vienna, Austria. Machine for covering rings with threads, especially for making thread-buttons. No. 1,396,626; Nov. 8.
- Danheiser, Theodore, New York, and F. F. Fecher, Brooklyn, N. Y., assignors to The Beck Duplicator Company. Duplicator. No. 1,372,674; Mar. 29; v. 284; p. 765.
- Daniel, Albert L. (See Kost, S. A., and Daniel.)
- Daniel, Allan P., Aurora, Ill., assignor to Bituminized Road Company, Kansas City, Mo. Machine for preparing paving materials. No. 1,369,730; Feb. 22; v. 283; p. 700.
- Daniel, Arnold, Charlottenburg, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Purifying juices containing inuline and laevulose. No. 1,399,544; Dec. 6.
- Daniel, C., Huntington Park, and Edward A. Juhnke, Los Angeles, Calif. Safety device for preventing motor-cars from overturning. No. 1,373,655; Apr. 5; v. 285; p. 53.
- Daniel, Henry, assignor to Kiel Machine Co., Kiel, Wis. Steering device for drawing-vehicles. No. 1,391,171; Sept. 20; v. 290; p. 479.
- Daniel, William A., Earl, Ark. Paste-dispensing device. No. 1,384,307; July 12; v. 288; p. 266.
- Daniels, Arthur L., Burlington, Vt. Measuring instrument. No. 1,382,628; June 28; v. 287; p. 602.
- Daniels, Dan, assignor to L. H. Harriman, trustee, Haverhill, Mass. Shoe-upper and finishing the edges thereof. No. 1,400,806; Dec. 20.
- Daniels, Edmund, Lahaina, Maui, Hawaii. Discharger for sugar-centrifugals. No. 1,388,173; Aug. 23; v. 289; p. 618.
- Daniels, Frank H., Philadelphia, Pa., assignor to John M. Rogers Works, Inc., Gloucester City, N. J. Adjustable limit-gage. No. 1,367,537; Feb. 8; v. 283; p. 188.
- Daniels, Frank H., Philadelphia, Pa., assignor to The John M. Rogers Works, Inc., Gloucester City, N. J. Screw-cutting lathe. No. 1,371,606; Mar. 15; v. 284; p. 463.
- Daniels, Felix F., Jersey City, N. J. Snow-remover. No. 1,398,454; Nov. 29.
- Daniels, Harry H., Winthrop, Mass. Attacher for button-fasteners. No. 1,394,476; Oct. 18.
- Daniels, John T., assignor to The Hanson & Van Winkle Co., Newark, N. J. Rheostat. No. 1,364,835; Jan. 4; v. 282; p. 152.
- Daniels, Lee G., Rockford, Ill. Universal joint. No. 1,382,958; June 28; v. 287; p. 665.
- Daniels, Lee G., Rockford, Ill. Automatic lathe. No. 1,393,205; Oct. 11.
- Daniels, Lee G., Rockford, Ill. Lathe. No. 1,393,206; Oct. 11.
- Daniels, Lloyd C., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Purifying benzanthrone. No. 1,365,024; Jan. 11; v. 282; p. 233.
- Daniels, Louis, New York, N. Y. Strainer. No. 1,370,292; Mar. 1; v. 284; p. 102.
- Daniels, Marshall M., et al. (See Hansen, William A., assignor.)
- Daniels, Verin B. (See Thomson, A. and Daniels.)
- Danielson, Arvid A., assignor to Dultmeier Manufacturing Company, Manning, Iowa. Hitch. No. 1,401,764; Dec. 27.
- Danielsson, Axel, Gottenborg, Sweden, assignor to Nordiska Kullager Aktiebolaget, Sweden. Limit-gage. No. 1,394,974; Oct. 25. (See Harrington, Eugene B., assignor.)
- Danielson, C. Fred. (See Harrington, Eugene B., assignor.)
- Danielson, Carl E. (See Good, F. H., Danielson, and Pelling.)
- Danielson, Edward C., Sturgeon Lake, Minn. Draining device. No. 1,366,250; Jan. 18; v. 282; p. 510.
- Danielson, Frank, Chicago, Ill. Universal burning-in and running-in machine. No. 1,369,223; Feb. 22; v. 283; p. 601.
- Danielson, Frank, Chicago, Ill. Wrench. No. 1,394,539; Oct. 25.
- Danielson, Frank R., Fairfield, Iowa. Ice-lug. No. 1,399,198; Dec. 6.
- Danielson, Gottfried, Weehawken, N. J. Musical instrument. No. 1,375,952; Apr. 26; v. 285; p. 631.
- Danielson, Gustaf C., Minneapolis, Minn. Table with attached chairs. No. 1,370,952; Mar. 8; v. 284; p. 273.
- Danielson, Jacob, Butte, Mont. Awl. No. 1,386,320; Aug. 2; v. 289; p. 71.
- Danielsson, Axel, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Parted cage for ball or roller bearings. No. 1,366,312; Jan. 18; v. 282; p. 522.
- Danielsson, Axel, Stockholm, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Journal-box for railway-cars and similar vehicles. No. 1,401,141; Dec. 27.
- Daninburg, William J., Windsor, Ontario, Canada. Electric sheet-drier. No. 1,393,759; Oct. 18.
- Danisi, Vito, New York, N. Y. Embroidery-frame. No. 1,392,123; Sept. 27; v. 290; p. 745.
- Danks, Alfred C., Pittsburgh, Pa. Dust-catcher valve and valve-operating mechanism. No. 1,401,052; Dec. 20.
- Danks, Frank, Detroit, Mich. Process and apparatus for degreasing garbage. No. 1,386,165; Aug. 2; v. 289; p. 40.
- Danly, Robert C., assignor to Ludwig & Ludwig, Chicago, Ill. Drum and cymbal beater. No. 1,386,605; Aug. 9; v. 289; p. 198.
- Dann, James E., Brooklyn, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio. Washer-timing device. No. 1,397,726; Nov. 22.
- Dann, Walter M., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Transformer-tank. No. 1,374,553; Apr. 12; v. 285; p. 263.
- Danne, Harold A., New York, N. Y. Aircraft bombing apparatus. No. 1,383,257; June 28; v. 287; p. 722.
- Danner, Emil C., Westmont borough, Pa. Heating-furnace. No. 1,375,679; Apr. 26; v. 285; p. 580.
- Dantsizen, Christian, Schenectady, N. Y., assignor to General Electric Company. Coating metals. No. 1,381,085; June 7; v. 287; p. 146.
- Danylchuk, John J., Saskatoon, Saskatchewan, Canada. Temperature-regulator. No. 1,380,291; May 31; v. 286; p. 1000.
- Daoust, Jean-J., St. Boniface, Manitoba, Canada. Baking-oven. No. 1,364,255; Jan. 4; v. 282; p. 40.
- Dapron, Joseph M., St. Louis, Mo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control device. No. 1,390,604; Sept. 13; v. 290; p. 302.
- Daquino, Nunzio, Turtle Creek, Pa. Shoe-heel lift. No. 1,378,220; May 17; v. 286; p. 461.
- Daraban, Charles J., assignor of one-half to H. Allen, Chicago, Ill. Shaving-mug attachment. No. 1,378,661; May 17; v. 286; p. 546.
- Darby, John, assignor of one-half to E. F. Flindell, Summit, N. J. Motion-picture-projecting machine. No. 1,366,363; Jan. 25; v. 282; p. 575.
- Darby, John, assignor of one-half to E. F. Flindell, Summit, N. J. Intermittent drive and framing device for motion-picture machines. No. 1,398,128; Nov. 22.
- Darby, Robert F., Yonkers, N. Y., assignor to American Steel Foundries, Chicago, Ill. Draft mechanism. No. 1,390,675; Sept. 13; v. 290; p. 317.
- Darby, William F., Jacksonville, Mo. Locking device. No. 1,374,554; Apr. 12; v. 285; p. 268.
- Darco Corporation. (See Mumford, Russell W., assignor.)
- D'Arcy, Frank P., Kalamazoo, Mich. Portable support. No. 1,365,093; Jan. 11; v. 282; p. 245.
- D'Arcy, Nicholas A. (See McGalliard, Joseph W., assignor.)
- Darden, Louis W., et al. (See Francisco, Marshall E., assignor.)
- Dargento, Louis, Rochester, N. Y. Building-wall. No. 1,379,251; May 24; v. 286; p. 730.
- Darling, Jay, Williamsport, Ind. Wire-bending machine. No. 1,388,409; Aug. 23; v. 289; p. 667.
- Darling, Lewis A., assignor to Electric Service Supplies Company, Philadelphia, Pa. Turbine wheel and bucket mounting. No. 1,366,119; Jan. 18; v. 282; p. 484.
- Darling, Lewis A., assignor to Electric Service Supplies Company, Philadelphia, Pa. Speed-governor for engines or motor devices. No. 1,401,320; Dec. 27.
- Darling, Lewis A., assignor to Electric Service Supplies Company, Philadelphia, Pa. Turbine and turbine-wheel. No. 1,401,321; Dec. 27.
- Darling, Philip G., Brookline, Mass., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y. Lubricating apparatus for steam-engines, &c. No. 1,370,953; Mar. 8; v. 284; p. 273.
- Darling, Samuel M., Washington, D. C. Preparing lignite for fuel. No. 1,382,629; June 28; v. 287; p. 602.
- Darling, Samuel M., Washington, D. C. Process of and apparatus for distilling ocotillo and the like. No. 1,384,939; July 19; v. 288; p. 478.
- Darlington, Frederick, New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Apparatus for nitrogen fixation. No. 1,401,678; Dec. 27.



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- Darlington, Philip J., Greenfield, Mass. Valve mechanism for liquid straining or filtering apparatus. No. 1,389,939; Sept. 6; v. 290; p. 77.
- Darnall, Lycurgus V., *et al.* (See Dyer, Nelson M., assignor.)
- Darr, Harry W., Johnstown, Pa. Lock-protector. No. 1,372,008; Mar. 22; v. 284; p. 596.
- Darrah, William A., Mansfield, Ohio. Crucible and manufacture. No. 1,381,171; June 14; v. 287; p. 215.
- Darrah, William A., Swissvale, Pa. Incandescent lamp. No. 1,355,608; July 26; v. 288; p. 692.
- Darrah, William A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing company. System of electrical distribution. No. 1,365,305; Jan. 11; v. 282; p. 287.
- Darrah, William A., assignor to The Ekco Engineering Company, Chicago, Ill. Dough-mixing apparatus. No. 1,396,408; Nov. 8.
- Darrah, William A., and R. Averill, assignors to The Ohio Brass Company, Mansfield, Ohio. Electric coupling. No. 1,392,558; Oct. 4.
- Darrin, Marc, Wilkinsburg, Pa., assignor to Koppers Products company. Linseed-oil substitute. No. 1,382,345; June 21; v. 287; p. 494.
- Darrin, Marc, Wilkinsburg, assignor to The Koppers Company, Pittsburgh, Pa. Paint or varnish and making the same. No. 1,370,195; Mar. 1; v. 284; p. 83.
- Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Manufacturing pneumatic-tire treads. No. 1,367,180; Feb. 1; v. 283; p. 59.
- Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Expandable core and mold therefor. No. 1,375,214; Apr. 19; v. 285; p. 458.
- Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Breaker strip for tires. No. 1,400,269; Dec. 13.
- Dart, John N., Richmond, Va. Pipe-shield. No. 1,399,851; Dec. 13.
- Dasenbrock, Ferdinand F., Teutopolis, Ill. Draft mechanism. No. 1,376,008; Apr. 26; v. 285; p. 641.
- Dathan, Frank, Oakland, Calif. Pneumatic player-piano action. No. 1,390,430; Sept. 13; v. 290; p. 266.
- Daubenspeck, Peter E., Butler, Pa. Fastening device for traction-chains. No. 1,367,241; Feb. 1; v. 283; p. 71.
- Daubenspeck, Peter E., Butler, Pa. Link connection for traction-chains. No. 1,373,172; Mar. 29; v. 284; p. 865.
- Daubenspeck, Peter E., Butler, Pa. Chain-link. No. 1,390,509; Sept. 13; v. 290; p. 282.
- Daudelin, Jean B., Fall River, Mass. Shuttle. No. 1,370,416; Mar. 1; v. 284; p. 125.
- Daughdrill, Kenneth W., Austin, Tex. Electric sign. No. 1,401,886; Dec. 27.
- Daugherty, Harry L., Carson City, Nev. Bit. No. 1,384,242; July 12; v. 288; p. 253.
- Daughtry, Willie L., Orlando, Fla. Guardrail chair. No. 1,378,328; May 17; v. 286; p. 481.
- Daughtry, Willie L., Orlando, Fla. Guard-rail chair. No. 1,381,454; June 14; v. 287; p. 267.
- Daum, Albert F., Pittsburgh, Pa. Fuse-plug. No. 1,367,803; Feb. 8; v. 283; p. 239.
- Daum, Albert F., Pittsburgh, Pa. Fuse. No. 1,378,329; May 17; v. 286; p. 481.
- Daum, Albert F., Pittsburgh, Pa. Fuse. No. 1,378,330; May 17; v. 286; p. 481.
- Daum, Conrad, Scranton, Pa. Auto roller-sleigh and express-wagon. No. 1,371,198; Mar. 8; v. 284; p. 319.
- Dauter, Ella A. (See McLeod, J. A., and Dauter.)
- Dautrey, Andrew L., Chicago, Ill. Perforating-machine. No. 1,375,680; Apr. 26; v. 285; p. 380.
- Daval Rubber Company. (See Raiche, Paul A., assignor.)
- Davenport, Alpha L., and A. J. James, Vancouver, British Columbia, Canada. Door-locking device. No. 1,374,908; Apr. 19; v. 285; p. 399.
- Davenport, Edgar R., Granite City, Ill. Torpedo-placing device. No. 1,383,535; July 5; v. 288; p. 57.
- Davenport, George R., Detroit, Mich., assignor to The Studebaker Corporation. Valve attachment. No. 1,393,348; Oct. 11.
- Davenport, Herman A., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Insole. No. 1,387,691; Aug. 16; v. 289; p. 467.
- Davenport, Hudson A., assignor of one-third to F. P. Sprague, Wyandotte, and one-third to H. G. Morrison, Trenton, Mich. Safety device for presses. No. 1,399,049; Dec. 6.
- Davenport, Isaac L., assignor of one-half to W. W. Armstrong, Camden, N. J. Talking-machine stop. No. 1,376,261; Apr. 26; v. 285; p. 690.
- Davenport Locomotive Works. (See Backer, Elmer F., assignor.)
- Davenport, Thomas C., New Haven, Conn. Grease-cup. No. 1,389,437; Aug. 30; v. 289; p. 924.
- Davenport, Thomas L., Everett, Wash. Oil-burner. No. 1,394,188; Oct. 18.
- Davern, Stephen A., assignor of one-half to F. E. Buchser, Cleveland, Ohio. Tool. No. 1,394,608; Oct. 25.
- Davey, Frederick W., Brooklyn, N. Y. Electric hammer. No. 1,377,562; May 10; v. 286; p. 282.
- Davey, John. (See Hansen, Thomas H., assignor.)
- Davey, John F., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fasteners. No. 1,373,490; Apr. 5; v. 285; p. 22.
- Davey Tree Expert Company, The. (See Amon, Glenn R., assignor.)
- David, Bruce W., Cleveland Heights, assignor to The Lincoln Electric Company, Cleveland, Ohio. Lubricating device for vertical-spindle bearings. No. 1,372,801; Mar. 29; v. 284; p. 790.
- David, Ernest, Maywood, Ill., assignor of one-third to H. Kraus, Chicago, Ill. Power-operated air-pump for automobiles. No. 1,377,403; May 10; v. 286; p. 252.
- David, James O., *et al.* (See Bair, Joseph H., assignor.)
- Davidena, Terentie, Detroit, Mich. Combination-lock for pocket-books. No. 1,364,836; Jan. 4; v. 282; p. 152.
- Davidena, Terentie, Detroit, Mich. Railway-station indicator. No. 1,386,606; Aug. 9; v. 289; p. 198.
- Davidowski, Joseph A., Brooklyn, N. Y. Phonograph. No. 1,372,167; Mar. 22; v. 284; p. 626.
- Dauids, Ernest M. (See Lindsay, L., and Dauids, assignors.)
- Dauids, William J., Amsterdam, Netherlands. Apparatus for making dops to hold precious stones during grinding or polishing. No. 1,400,423; Dec. 13.
- Davidson, Charles J., Milwaukee, Wis., and W. J. Kenney, Chicago, Ill., assignors, by mesne assignments, to Moloch Company, Kaukauna, Wis. Grinder mechanism and process for boiler-furnaces and the like. No. 1,372,652; Mar. 22; v. 284; p. 719.
- Davidson, Clarence B., San Francisco, Calif. Manifolding-books and manifolding. No. 1,392,748; Oct. 4.
- Davidson, Elias E., Akron, Ohio., assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for making sheets of plastic composition. No. 1,397,087; Nov. 15.
- Davidson, Ernest G., assignor of one-half to J. H. Brown, Elyria, Ohio. Automobile-bumper. No. 1,396,026; Nov. 8.
- Davidson, Frank B., Marseilles, Ill., assignor to National Biscuit Company, New York, N. Y. Container. No. 1,372,218; Mar. 22; v. 284; p. 637.
- Davidson, George A., Ada, Minn. Potato-seed-cutting machine. No. 1,395,482; Nov. 1.
- Davidson, George N., assignor to Thomas Dunham Company, Aurora, Ill. Cabinet. No. 1,367,358; Feb. 1; v. 283; p. 95.
- Davidson, Gordon S., Sydney, Australia. Bite-taking device. No. 1,385,070; July 19; v. 288; p. 507.
- Davidson, Harry O., Cleveland Heights, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Concrete pipe. No. 1,376,609; May 3; v. 286; p. 44.
- Davidson, Hoyt B., Tacoma, Wash. Reflecting device for automobiles. No. 1,372,606; Mar. 22; v. 284; p. 711.
- Davidson, Jacob, New York, N. Y. Sample-display device. No. 1,398,364; Nov. 29.
- Davidson, James L., Los Angeles, Calif. Cash and currency container. No. 1,396,361; Nov. 8.
- Davidson, John. (See Parkinson, G., and Davidson.)
- Davidson, John, Providence, R. I. Sprinkler-head shut-off. No. 1,379,617; May 31; v. 286; p. 874.
- Davidson, John, Jr. (See Demarest, C. S., and Davidson.)
- Davidson, Joseph, Greenville, S. C., assignor of one-half to American Machine & Manufacturing Company. Hulling-machine. No. 1,365,228; Jan. 11; v. 282; p. 272.
- Davidson, Joshua E. (See Penney, H. D., and Davidson.)
- Davidson, Ira M., Santa Paula, assignor of one-third to R. I. Moses, Los Angeles, Calif. Composite cylinder and rotary sleeve-valve motor. No. 1,401,322; Dec. 27.
- Davidson, Lester, Fisher, Ill. Railway-crossing gate. No. 1,374,828; Apr. 12; v. 285; p. 321.
- Davidson, Samuel C., Belfast, Ireland. Centrifugal fan and pump. No. 1,365,893; Jan. 18; v. 282; p. 441.
- Davidson, Samuel C., Belfast, Ireland. Manufacture of rubber. No. 1,380,640; June 7; v. 287; p. 59.
- Davidson, Samuel C., Belfast, Ireland. Treatment of rubber latex. No. 1,381,455; June 14; v. 287; p. 267.
- Davidson, Samuel C., Belfast, Ireland. Peat fuel. No. 1,384,012; July 5; v. 288; p. 157.
- Davidson, Samuel C., Belfast, Ireland. Treatment of raw rubber when freshly coagulated from the latex. No. 1,388,453; Aug. 23; v. 289; p. 676.
- Davidson, Sydney J. W., Auckland, New Zealand. Gas ring or burner. No. 1,375,572; Apr. 19; v. 285; p. 526.
- Davidson, Taylor J., *et al.* (See Erler, Bruno G., assignor.)
- Davidson, Thomas M., Wilmington, Del., and J. Chesney, Gibbstown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Tamping-machine. No. 1,372,009; Mar. 22; v. 284; p. 597.
- Davidson, William J., New York, N. Y. Safety-razor. No. 1,390,277; Sept. 13; v. 290; p. 236.
- Davie, John M., Cleveland, Ohio. Adjustable reamer and boring-tool. No. 1,389,492; Aug. 30; v. 289; p. 935.
- Davies, Albert J., Kenogami, Quebec, Canada. Four-drainer machine. No. 1,399,008; Dec. 6.
- Davies, Arthur S., Santa Cruz, Calif. Fish-cooker. No. 1,391,821; Sept. 27; v. 290; p. 683.
- Davies, David P., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Tractor. No. 1,388,410; Aug. 23; v. 289; p. 667.
- Davies, Evan M., North Tonawanda, N. Y. Folding table. No. 1,366,637; Jan. 25; v. 282; p. 631.
- Davies, Evan W., Dowllais, Wales. Apparatus for the automatic manipulation of metal ingots at rolling-mills. No. 1,394,671; Oct. 25.
- Davies, George E. (See Palmer, W. H., and Davies.)



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- Davies, Henry R., assignor to Industrial Research Corporation, Toledo, Ohio. Ignition system. No. 1,372,650; Mar. 22; v. 284; p. 719.
- Davies, John H., Melbourne, Victoria, Australia. Teat-cup of milking-machines. No. 1,365,665; Jan. 18; v. 282; p. 395.
- Davies, John J., Jr. (See Zubler, Camp M., assignor.)
- Davies, John W., Barnesboro, Pa. Wrench. No. 1,379,536; May 24; v. 286; p. 784.
- Davies, Joseph B., Melbourne, Victoria, Australia. Machine for spirally threading or grooving wire. No. 1,394,716; Oct. 25.
- Davies, Llewelyn J., Cincinnati, Ohio. Valve-spring lifter. No. 1,393,669; Oct. 11.
- Davies, Nelson E., Redwood City, Calif. Reversing propeller. No. 1,378,401; May 17; v. 286; p. 495.
- Davies, Nelson E., Redwood City, Calif. Internal-combustion engine. No. 1,383,536; July 5; v. 288; p. 57.
- Davies, Rhys, Fort Wayne, Ind. Electric regulator. No. 1,374,285; Apr. 12; v. 285; p. 216.
- Davies, Thomas M., Llanelly, Wales. Tire-inflating pump. No. 1,377,563; May 10; v. 286; p. 282.
- Davies, William. (See Stafford, Wilfred, assignor.)
- Davies, William B. (See Lazarus, M., and Davies.)
- Davies, William R. (See Thomas, H. S., Davies, and Thomas.)
- Davies, Joseph T., Battle Creek, Mich. Washing-machine. No. 1,384,241; July 12; v. 288; p. 253.
- Davis, Abbott B., Saugatuck, Mich. Toy duck. No. 1,392,385; Oct. 4.
- Davis, Abbott B., Saugatuck, Mich. Toy boat. No. 1,392,485; Oct. 4.
- Davis, Abraham, and N. B. Helfman, Minneapolis, Minn. Davenport-bed. No. 1,381,172; June 14; v. 287; p. 215.
- Davis, Albert C., Bootle, England. Refrigerator-door. No. 1,389,423; Aug. 30; v. 289; p. 921.
- Davis, Albert L., Norwalk, Ohio. Vault-lock. No. 1,375,134; Apr. 19; v. 285; p. 443.
- Davis, Alex B., Cincinnati, Ohio, assignor to The Eli Lilly and Company, Indianapolis, Ind. Compounds of cinchona alkaloids and 2-phenyl-quinolin-4-carboxylic acid. (Reissue.) No. 15,127; June 21; v. 287; p. 545.
- Davis, Alfred U., assignor to Davis Instrument Manufacturing Company, Baltimore, Md. Magneto. No. 1,383,605; July 5; v. 288; p. 72.
- Davis, Alva G., Center, Ky. Radius-rod brace. No. 1,374,829; Apr. 12; v. 285; p. 321.
- Davis, Anthony E. (See Geiger, F. J., and Davis.)
- Davis, Arthur, Livingston, Ill. Tractor. No. 1,375,571; Apr. 19; v. 285; p. 526.
- Davis, Arthur L., Liberty, Mo., and K. D. Jacob, Helena, Ark., assignors to United States of America. Making a catalyst. No. 1,386,555; Aug. 2; v. 289; p. 115.
- Davis, Arthur N., New York, N. Y. Artificial tooth. No. 1,383,696; July 5; v. 288; p. 91.
- Davis, Augustine, Jr. (See Betts, A. L., and Shield, assignors.)
- Davis, Augustine, Jr., Cincinnati, Ohio. Milk-can. No. 1,370,007; Mar. 1; v. 284; p. 48.
- Davis, Augustine, Jr., Covington, Ky. Tank closure and vent. No. 1,383,389; July 5; v. 288; p. 27.
- Davis Automatic Equipment Corporation. (See Buzzard, Raleigh B., assignor.)
- Davis, Bethuel M., Chicago, Ill. Speedometer. No. 1,401,396; Dec. 27.
- Davis-Bournonville Company. (See Anderson, James L., assignor.)
- Davis-Bournonville Company. (See Bucknam, Worthy C., assignor.)
- Davis, Charles, Blair, Nebr. Conveyer. No. 1,370,417; Mar. 1; v. 284; p. 125.
- Davis, Charles A., and H. L. Wolfe, San Jose, Calif. Shoe-fitting stool. No. 1,396,100; Nov. 8.
- Davis, Charles C., Contoocook, N. H., assignor to Kingsbury & Davis Machine Company, South Coventry, Conn. Paper-box machine. No. 1,383,697; July 5; v. 288; p. 91.
- Davis, Charles D., et al. (See Fox, Frederick L., assignor.)
- Davis, Charles E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine. No. 1,399,380; Dec. 6.
- Davis, Charles H., Valley City, N. D. Fuel-press. No. 1,400,212; Dec. 13.
- Davis, Charles T., Brooklyn, N. Y. Suture-package. No. 1,371,668; Mar. 15; v. 284; p. 475.
- Davis, Charles T., New York, N. Y. Surgical suture. No. 1,382,715; June 28; v. 287; p. 619.
- Davis, Charles T., New York, N. Y. Package. No. 1,387,839; Aug. 16; v. 289; p. 497.
- Davis, Charles W., Edgeworth, and W. S. Brown, assignors to Standard Underground Cable Company, Pittsburgh, Pa. Filling porous material with liquid. No. 1,374,362; Apr. 12; v. 285; p. 231.
- Davis, Claude B., Richmond, Va. Clothes-wringing attachment for washtubs. No. 1,379,618; May 31; v. 286; p. 874.
- Davis, Cleland, Englewood Cliffs, N. J. Non-recoil gun. No. 1,395,630; Nov. 1.
- Davis, Cornelius S., assignor of one-half to M. C. Ernsberger, Rochester, N. Y. Apparatus for treating material in the gaseous phase. No. 1,369,787; Mar. 1; v. 284; p. 7.
- Davis, Cornelius S., assignor of one-half to M. C. Ernsberger, Rochester, N. Y. Treating material in the gaseous phase. No. 1,369,788; Mar. 1; v. 284; p. 7.
- Davis, Cortland W., assignor to The Mantle Lamp Company of America, Incorporated, Chicago, Ill. Manufacturing thorium nitrate. No. 1,368,243; Feb. 15; v. 283; p. 371.
- Davis, Cortland W., Oak Park, assignor to The Mantle Lamp Company of America, Chicago, Ill. Support for shades. No. 1,385,984; Aug. 2; v. 289; p. 4.
- Davis, Cortland W., assignor to The Mantle Lamp Company of America, Chicago, Ill. Fastener for covers. No. 1,394,672; Oct. 25.
- Davis, David J., Seymour, Conn. Line-casting device. No. 1,376,260; Apr. 26; v. 285; p. 690.
- Davis, David J. and W. C.; said W. C. Davis assignor of forty per cent. to G. Davis, Columbus, Ohio. Collapsible bed-spring. No. 1,394,609; Oct. 25.
- Davis, De Leon, Richmond, Va., assignor to Unity Tire & Mfg. Co. Tire. No. 1,374,637; Apr. 12; v. 285; p. 285.
- Davis, Donald C., Buffalo, N. Y. Machine for testing the hardness of materials. No. 1,381,288; June 14; v. 287; p. 236.
- Davis, Donald C., Buffalo, assignor to Gould Coupler Company, New York, N. Y. Draft and buffing mechanism. No. 1,369,224; Feb. 22; v. 283; p. 601.
- Davis, E. Milton. (See Calkins, Edwin S., assignor.)
- Davis, Eddie E., Vendor, Ark. Resilient wheel. No. 1,365,384; Jan. 11; v. 282; p. 302.
- Davis, Edna, Philadelphia, Pa. Bed. No. 1,372,802; Mar. 29; v. 284; p. 790.
- Davis, Edward H. (See Gleason, William D., assignor.)
- Davis, Edward W. (See Swart, W. G., Jordan, Davis, and Counselman.)
- Davis, Edwin G., New York, and D. L. Lindquist, Hartsdale, N. Y., assignors to Otis Elevator Company. Dual system of electrical control embodying the use of main auxiliary source of current-supply. No. 1,399,605; Dec. 6.
- Davis, Elmer W., Newton Center, Mass., assignor to Shaw-Walker Company, Muskegon, Mich. Index. No. 1,391,720; Sept. 27; v. 290; p. 663.
- Davis, Ernest F., Elmira, N. Y., assignor to F. J. Lesh and C. G. Wood, Muncie, Ind. Steering-wheel mounting. No. 1,374,830; Apr. 12; v. 285; p. 321.
- Davis, Ernest W., Oak Park, assignor to Burke & James Inc., Chicago, Ill. Moving-picture camera. No. 1,372,675; Mar. 29; v. 284; p. 765.
- Davis, Ernest W., assignor to Burke & James, Inc., Chicago, Ill. Turntable-support for cameras. No. 1,378,999; May 24; v. 286; p. 682.
- Davis, Ernest W., Oak Park, Ill., assignor to The Bassick Manufacturing Co. Lubricating system. No. 1,401,765; Dec. 27.
- Davis, Euell H., and R. D. Baker, Chicago, Ill. Lathe-center. No. 1,400,731; Dec. 20.
- Davis, Evan J., Yakima, Wash. Heat-stove. No. 1,387,359; Aug. 9; v. 289; p. 349.
- Davis, Francis G., assignor to H. H. Babcock Company, Watertown, N. Y. Vehicle-body. No. 1,366,168; Jan. 18; v. 282; p. 494.
- Davis, Francis W., Buffalo, N. Y. Differential gear. No. 1,389,580; Sept. 6; v. 290; p. 4.
- Davis, Frank B., Erie, Pa. Molding apparatus. No. 1,387,769; Aug. 16; v. 289; p. 483.
- Davis, Frank C., Tucson, Ariz. Retaining-latch for handles. No. 1,379,085; May 24; v. 286; p. 698.
- Davis, Frank E., Bremerton, Wash. Latch. No. 1,379,537; May 24; v. 286; p. 784.
- Davis, Frank F., Chester, Pa. Piston-wrist-pin construction. No. 1,392,819; Oct. 4.
- Davis, Frank H., assignor of one-half to F. R. Coughlin, New York, N. Y. Fusible adherent and making the same. No. 1,374,492; Apr. 12; v. 285; p. 257.
- Davis, Frank M., Milwaukee, Wis. Gearing. No. 1,366,770; Jan. 25; v. 282; p. 658.
- Davis, Frank M., Milwaukee, Wis. Universal duplex milling-machine. No. 1,376,861; May 3; v. 286; p. 92.
- Davis, Franklin E., Van Norman, Mont. Wrench. No. 1,380,044; May 31; v. 286; p. 954.
- Davis, Fred M., assignor to Pullman Couch Company, Chicago, Ill. Convertible furniture. No. 1,386,397; Aug. 2; v. 289; p. 85.
- Davis, Frederick A. W., Pelham, N. Y. Railway-flagman's carriage. No. 1,395,559; Nov. 1.
- Davis, George. (See Davis, David J. and W. C., assignors.)
- Davis, George E., Hamburg, N. Y. Automobile-signal. No. 1,390,094; Sept. 6; v. 290; p. 108.
- Davis, George H., and C. H. Mitchell, West Orange, N. J.; said Mitchell assignor to said Davis. Press for moldable compounds. No. 1,375,831; Apr. 26; v. 285; p. 607.
- Davis, George H. E., Lynn, Mass. Drawing apparatus. No. 1,374,363; Apr. 12; v. 285; p. 231.
- Davis, George H. E., Lynn, Mass. Liquid-cooling apparatus. No. 1,380,535; June 7; v. 287; p. 40.
- Davis, Harold S. (See Bacon, R. F., and Davis.)
- Davis, Harold S., Pittsburgh, and W. A. Hamor, New Kensington, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex. Distillation of sulfur. No. 1,398,960; Dec. 6.
- Davis, Harry W., Danville, Ill. Headlight for automobiles. No. 1,369,885; Mar. 1; v. 284; p. 25.
- Davis, Haskell C. (See Keator, Frank Y., assignor.)



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- Davis, Helen L., Arlington, N. J. Brush-cleaner for carpet-sweepers. No. 1,381,973; June 21; v. 287; p. 425.
- Davis, Helen M., Washington, D. C. Testing-mold. No. 1,394,255; Oct. 18.
- Davis, Henry F. (See Poole, R. M., and Davis.)
- Davis, Henry F., Walter, Okla. Well-bucket sinker. No. 1,366,524; Jan. 25; v. 282; p. 608.
- Davis, Henry P., New York, N. Y. Auto-window frame. No. 1,389,033; Aug. 30; v. 289; p. 844.
- Davis, Howard C., Elizabeth, N. J., assignor to American Marine Equipment Corporation, New York, N. Y. Feed-water heater, evaporator, and the like. No. 1,372,010; Mar. 22; v. 284; p. 597.
- Davis, Howard C., Elizabeth, N. J., assignor to American Marine Equipment Corporation. Feed-water heater, condenser, and the like. No. 1,400,347; Dec. 13.
- Davis, Ida, San Antonio, Tex. Milk-bottle cap. No. 1,394,409; Oct. 18.
- Davis Instrument Manufacturing Company. (See Davis, Alfred U., assignor.)
- Davis, Irwin, Kirksville, Mo. Feed-trough. No. 1,367,524; Feb. 1; v. 283; p. 128.
- Davis, James C., Hinsdale, assignor to American Steel Foundries, Chicago, Ill. Method of and means for reclaiming molding-sand. No. 1,393,092; Oct. 11.
- Davis, John, Detroit, Mich. Spring-tire. No. 1,387,360; Aug. 9; v. 289; p. 349.
- Davis, John C., Ottumwa, Iowa. Radiator cooling-cap. No. 1,371,669; Mar. 15; v. 284; p. 175.
- Davis, John D. (See Dunlop, D., and Davis.) (Reissue.)
- Davis, John E. (See Du Brul, Davila S., assignor.)
- Davis, John E., assignor of one-half to C. Eisen, Cincinnati, Ohio. Candy-packing table. No. 1,366,169; Jan. 18; v. 282; p. 494.
- Davis, John H., New York, N. Y. Adjusting device for belts. No. 1,385,309; July 19; v. 288; p. 554.
- Davis, John H., Chicago, Ill. Evaporator. No. 1,387,840; Aug. 16; v. 289; p. 497.
- Davis, John N., Three Rivers, Mich., assignor to O. B. Andrews Company, Chattanooga, Tenn. Folding box. No. 1,375,489; Apr. 19; v. 285; p. 510.
- Davis, John P. T., Elk City, Kans. Bit-recovering means. No. 1,396,260; Nov. 8.
- Davis, John P. T., Elk City, Kans. Pump. No. 1,396,261; Nov. 8.
- Davis, John P. T., Elk City, Kans. Bailer. No. 1,396,262; Nov. 8.
- Davis, John S., Seattle, Wash., assignor to The California Sprayer Company, Los Angeles, Calif. Portable spraying-machine. No. 1,371,412; Mar. 15; v. 284; p. 425.
- Davis, John T. (See Rhorer, Homer M., and Davis.)
- Davis, John T., Alameda, assignor to J. Burmeister, San Francisco, Calif. Combined steam-generator and oil-vaporizer. No. 1,372,651; Mar. 22; v. 284; p. 719.
- Davis, John W., Dallas, Tex. Lineman's safety-chair. No. 1,392,820; Oct. 4.
- Davis, John W., and J. W. Osborne, Winchester, assignors of four-twelfths to said Davis, three-twelfths to said Osborne, and five-twelfths to C. L. Williams, Chapin, Ill. Radiator-heater. No. 1,390,887; Sept. 13; v. 290; p. 359.
- Davis, Joseph, assignor to The Insel Company, Newark, N. J. Signal-light for vehicles. No. 1,383,606; July 5; v. 288; p. 72.
- Davis, Laurence R., Providence, R. I., assignor to Revere Rubber Company. Truck-tire. No. 1,381,108; June 14; v. 287; p. 203.
- Davis, Laurence R., Providence, R. I., assignor to Revere Rubber Company. Resilient tire. No. 1,382,630; June 28; v. 287; p. 602.
- Davis, Lawrence C., Chicago, Ill. Sanitary wrapper for toothbrush-bodies. No. 1,386,398; Aug. 2; v. 289; p. 85.
- Davis, Luckey C., Boley, Okla. Combination-stand. No. 1,390,605; Sept. 13; v. 290; p. 302.
- Davis, Mansell A., Lapeer, Mich. Vehicle-train. No. 1,381,861; June 14; v. 287; p. 344.
- Davis, Marion A., Sherman, Tex. Automobile-windlass. No. 1,393,349; Oct. 11.
- Davis, Martin D., Daleville, Ind. T-square. No. 1,381,808; June 14; v. 287; p. 334.
- Davis, Merrill, Detroit, Mich., assignor to Morgan and Wright. Control for fire-stripping machines. No. 1,384,431; July 12; v. 288; p. 293.
- Davis, Mitchell E., et al. (See Fruitticher, William H., assignor.)
- Davis, Mollie, Spokane, Wash. Signature roll. No. 1,369,519; Feb. 22; v. 283; p. 658.
- Davis, Monroe, Enid, Okla., assignor of one-half to A. R. Arceneaux, Welsh, La. Grain drier and cooler. No. 1,384,689; July 12; v. 288; p. 347.
- Davis, Moses J., Pueblo, Colo. Headlight. No. 1,369,967; Mar. 1; v. 284; p. 41.
- Davis Motor Corporation. (See Davis, Theodore E., assignor.)
- Davis, Patrick H., New York, N. Y., assignor to The Hamilton-Low Company, Jersey City, N. J. Valve. No. 1,375,215; Apr. 19; v. 285; p. 458.
- Davis, Raymond, Washington, D. C. Sensitometer for testing with accuracy the speed, latitude, and color sensitivity of photographic plates and films. No. 1,382,272; June 21; v. 287; p. 480.
- Davis, Richard H., Davenport, Iowa. Attachment for planer or similar machines. No. 1,388,853; Aug. 30; v. 289; p. 807.
- Davis, Robert A. (See Dunston, J. H., and Davis.)
- Davis, Robert E. (See Marshall, John L., and Davis.)
- Davis, Robert E., El Paso, Tex. Dirigible headlight. No. 1,389,493; Aug. 30; v. 289; p. 935.
- Davis, Robert H., London, England. Valve for controlling flow of gases. No. 1,398,845; Nov. 29.
- Davis, Robert H., London, England. Flow-meter for gases. No. 1,401,887; Dec. 27.
- Davis, Robert L., Lincoln, Nebr. Infant's toilet-bed. No. 1,366,064; Jan. 18; v. 282; p. 474.
- Davis, Robert R., Tool Company. (See Davis, Robert R., assignor.)
- Davis, Robert R., assignor to Robert R. Davis Tool Company, St. Louis, Mo. Boring-tool. No. 1,392,304; Oct. 4.
- Davis, Robert W., Hiltonia, N. J. Aeronautical propeller. No. 1,386,458; Aug. 2; v. 289; p. 96.
- Davis, Rucker E., Chicago, Ill. Pressure-generator. No. 1,372,121; Mar. 22; v. 284; p. 617.
- Davis, Sam H., Tioga, La. Table. No. 1,372,607; Mar. 22; v. 284; p. 711.
- Davis, Samuel S., Sidney, Ohio. Boiler. No. 1,380,536; June 7; v. 287; p. 40.
- Davis, Samuel S., Kentland, Ind. Drain. No. 1,398,007; Nov. 22.
- Davis Sewing Machine Company, The. (See Lewis, Elmer M., assignor.)
- Davis Sewing Machine Company, The. (See Meyer, William H., assignor.)
- Davis, Sidney, Lankershim, Calif. Mail-box indicator. No. 1,370,196; Mar. 1; v. 283; p. 83.
- Davis, Theodore E., Brigham, Utah, assignor to Davis Motor Corporation. Internal-combustion engine. No. 1,393,670; Oct. 11.
- Davis, Theodore H., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricator-nipple. No. 1,366,065; Jan. 18; v. 282; p. 474.
- Davis, Theron. (See Eggers, W. A., and Davis.)
- Davis, Thomas, Okmulgee county, Okla. Tightening device. No. 1,366,904; Feb. 1; v. 283; p. 4.
- Davis, Thomas A., Grandview, Wash. Tail-holder. No. 1,374,364; Apr. 12; v. 285; p. 231.
- Davis, Tommie, Fort Lyon, Colo. Folding car-step. No. 1,392,821; Oct. 4.
- Davis, Virginia, New York, N. Y. Key-ring. No. 1,388,100; Aug. 16; v. 289; p. 547.
- Davis-Walkins Dairymen's Manufacturing Company. (See Peacock, Edward M., assignor.)
- Davis, Walter, Tulsa, Okla. Rotary switch. No. 1,387,361; Aug. 9; v. 289; p. 350.
- Davis, Walter G., Miami, Fla. Safety automobile-lock. No. 1,380,887; June 7; v. 287; p. 108.
- Davis, William A., Malden, assignor to Babcock-Davis Corporation, Boston, Mass. Stairway. No. 1,388,329; Aug. 23; v. 289; p. 650.
- Davis, William C. (See Davis, David J. and W. C.)
- Davis, William H. (See Rollins, William T., assignor.)
- Davis, William H., Bronxville, and Fredrick E. Joss, Brooklyn, N. Y., assignors to Lektophone Corporation. Acoustic diaphragm. No. 1,389,632; Sept. 6; v. 290; p. 14.
- Davis, William J. (See Hiatt, C. E., and Davis.)
- Davis, William J. (See Hughes, T. B., Davis, and Hughes.)
- Davis, William J., and J. Hammell, Tipton, Ind. Automobile-tire. No. 1,378,331; May 17; v. 286; p. 482.
- Davis, William L., Chicago, Ill. Cinch-buckle. No. 1,368,903; Feb. 15; v. 283; p. 500.
- Davis, William L., and H. Ensminger, Portland, Oreg. Camera attachment. No. 1,379,086; May 24; v. 286; p. 698.
- Davis, William R., assignor to The William Hood Dunwoody Industrial Institute, Minneapolis, Minn. Radio-signaling apparatus. No. 1,387,885; Aug. 16; v. 289; p. 506.
- Davis, William W., and W. W. MacDonald, San Francisco, Calif. Grease-cup. No. 1,381,809; June 14; v. 287; p. 334.
- Davis, Willie H., Accoville, W. Va. Miner's breastplate. No. 1,383,909; July 5; v. 288; p. 134.
- Davison, Andrew, Vancouver, British Columbia, Canada. Saw-setting machine. No. 1,373,308; Mar. 29; v. 284; p. 891.
- Davison, Charles, Jr., Glouster, Ohio. Electric hair-clippers. No. 1,369,731; Feb. 22; v. 283; p. 700.
- Davison, Daniel O. (See Trusty, J. F., and Davison.)
- Davison, Guy S., Holderness, N. H., assignor, by mesne assignments, to The Longford Company of America, Cambridge, Mass. Motor-vehicle extension drive-shaft. (Reissue.) No. 1,514,9; July 12; v. 288; p. 356.
- Davison, Hugh, New York, N. Y. Car-fender. No. 1,375,446; Apr. 19; v. 285; p. 503.
- Davison, W. C. (See Kell, Frank A., assignor.)
- Davisson, Clinton J., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Ballasting device. No. 1,364,080; Jan. 4; v. 282; p. 6.
- Davisson, Ora. (See Boyer, A. B., and Davisson.)
- Davy Brothers. (See Hand, Thomas W., assignor.)
- D'Arry, Yves, Opelousas, La. Erick-machine. No. 1,394,285; Oct. 18.



*Alphabetical list of patentees—Continued.*

- Dawe, Philip H., London, England. Electrical resistance apparatus. No. 1,398,630; Nov. 29.
- Dawer, Antonio, Philadelphia, Pa. Street or station indicator. No. 1,368,904; Feb. 15; v. 283; p. 500.
- Dawkins, William V., Whitstable, England. Mixing and aerating machine. No. 1,384,383; July 12; v. 288; p. 282.
- Dawley, James C. (See Ripsch, C. W., and Dawley.)
- Dawley, James C. (See Ripsch, C. W., Dawley, and Derby.)
- Dawson, Albert J., Portsmouth, N. H. Davit. No. 1,364,727; Jan. 4; v. 282; p. 131.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance. No. 1,364,546; Jan. 4; v. 282; p. 97.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance. No. 1,364,728; Jan. 4; v. 282; p. 131.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance-sighting apparatus. No. 1,364,729; Jan. 4; v. 282; p. 131.
- Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors to Vickers Limited, Westminster, England. Ordnance. No. 1,371,075; Mar. 8; v. 284; p. 296.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Gun-mounting. No. 1,371,738; Mar. 15; v. 284; p. 488.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Gun-mounting. No. 1,382,174; June 21; v. 287; p. 461.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance. No. 1,386,459; Aug. 2; v. 289; p. 97.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance. No. 1,386,460; Aug. 2; v. 289; p. 97.
- Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, England, assignors to Vickers Limited, Westminster, London, England. Shell-bogies for use with ammunition-hoisting apparatus for ordnance. No. 1,401,114; Dec. 20.
- Dawson, Arthur T., Westminster, London, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, London, England. Ordnance. No. 1,401,241; Dec. 27.
- Dawson, Charles, Tacoma, Wash. Grain-washing machines. No. 1,400,664; Dec. 20.
- Dawson, Edward B., *et al.* (See Jennings, Albert G., assignor.)
- Dawson, Fred, assignor to Lawrence & Hill, Inc., Watertown, N. Y. Wheel-dresser. No. 1,369,789; Mar. 1; v. 284; p. 7.
- Dawson, George C. (See Gaskell, W. H., Dawson, and Lewis.)
- Dawson, James B. (See Gerrie, W. W., and Dawson.)
- Dawson, James C., Webster Groves, Mo. Bookbinding. No. 1,371,739; Mar. 15; v. 284; p. 488.
- Dawson, James C., Webster Groves, Mo. Ledger. No. 1,383,537; July 5; v. 288; p. 57.
- Dawson, John N., assignor, by mesne assignments, to Deep Water Salvage and Drydock Company, Seattle, Wash. Submarine dredge. No. 1,370,096; Mar. 1; v. 284; p. 64.
- Dawson, Joseph L., Farmer City, Ill. Automatic train stop. No. 1,372,122; Mar. 22; v. 284; p. 618.
- Dawson, Richard T. (See Scribner, William L., assignor.)
- Dawson, Robert K., Guelph, Ontario, Canada. Center hub for revolving chairs. No. 1,379,969; May 31; v. 286; p. 939.
- Dawson Manufacturing Company. (See Dawson, Sidney, assignor.)
- Dawson Manufacturing Company. (See Stinger, Joseph E., assignor.)
- Dawson, Millard. (See Ike, M., Owings, Butcher, and Dawson.)
- Dawson, Sidney, assignor to Dawson Manufacturing Company, Chicago, Ill. Detector-signal. No. 1,375,367; Apr. 19; v. 285; p. 487.
- Dawson, William, & Sons (Othy) Limited, *et al.* (See Payne, Sydney, and Stoff, assignors.)
- Dawson, William F., Lynn, Mass., assignor to General Electric Company. Apparatus for protecting the field structure and windings of dynamo-electric machines. No. 1,381,086; June 7; v. 287; p. 146.
- Day, Albert V. T., New Rochelle, N. Y., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,393,011; Oct. 11.
- Day, Alfred B., Oliver Springs, Tenn. Mining-car wheel. No. 1,364,616; Jan. 4; v. 282; p. 110.
- Day, Alfred L., Brookline, Mass., assignor to Day Perforator Company, Perforating-machine. No. 1,391,099; Sept. 20; v. 290; p. 464.
- Day, Arthur A., assignor to Buffalo Forge Company, Buffalo, N. Y. Door structure for air-washers and the like. No. 1,392,305; Oct. 4.
- Day, Charles B., L. E., and J. F. Baker, Lamar, Colo. Control apparatus for transmission and brakes of automobiles. No. 1,389,816; Sept. 6; v. 290; p. 51.
- Day, David T., Washington, D. C. Purifying oils. No. 1,365,894; Jan. 18; v. 282; p. 441.
- Day, David T., Washington, D. C. Treating hydrocarbon oil. No. 1,373,391; Mar. 29; v. 284; p. 907.
- Day, David E., Santa Maria, Calif. Oil-cracking process and apparatus therefor. No. 1,386,768; Aug. 9; v. 289; p. 231.
- Day, Fieldin A. (See Day, Grover C. and F. A.)
- Day, Frank S., *et al.* (See Shapiro, Herman, assignor.)
- Day, George W., Glenellyn, Ill. Display-stand. No. 1,396,027; Nov. 8.
- Day, Grover C. and F. A., Straight Creek, Ky. Switch. No. 1,373,309; Mar. 29; v. 284; p. 891.
- Day, Harvey J., and G. J. Finn, Eau Claire, Wis. Train-sheet. No. 1,395,177; Oct. 25.
- Day, Henry B., Los Angeles, Calif. Automobile-surfacing. No. 1,392,889; Oct. 4.
- Day, Herbert O. (See Megow, E. J., Day, and Gehan.)
- Day, Herbert O., assignor, by mesne assignments, to Convertible Tractor Corporation, St. Paul, Minn. Transmitting traction-wheel. No. 1,372,866; Mar. 29; v. 284; p. 803.
- Day, Herbert O., assignor to Convertible Tractor Corporation, St. Paul, Minn. Transmission traction-wheel. No. 1,372,867; Mar. 29; v. 284; p. 804.
- Day, Herbert O., assignor, by mesne assignments, to Wood-Craft Company, St. Paul, Minn. Coupling for rigidly connecting rear-axle and frame structures of automobiles. No. 1,382,716; June 28; v. 287; p. 619.
- Day, Herbert W., Wollaston, assignor to Spray Engineering Company, Boston, Mass. Method of and apparatus for applying coating. No. 1,368,612; Feb. 15; v. 283; p. 443.
- Day, Herbert W., Wollaston, assignor to Spray Engineering Company, Boston, Mass. Coating and tool or appliance for applying coating. No. 1,369,520; Feb. 22; v. 283; p. 658.
- Day, Herbert W., Wollaston, assignor to Spray Engineering Company, Boston, Mass. Tool for applying coating. No. 1,380,866; June 7; v. 287; p. 104.
- Day, Herbert W., Wollaston, assignor to Spray Engineering Company, Boston, Mass. Tool for applying coating. No. 1,401,397; Dec. 27.
- Day, Hugh P., Knoxville, Tenn. Screen. No. 1,369,629; Feb. 22; v. 283; p. 680.
- Day, James A., Oilfields, Calif. Rod socket or coupling. No. 1,379,903; May 31; v. 286; p. 926.
- Day, Joseph P., Milburn, N. J. Advertising-chart. No. 1,374,365; Apr. 12; v. 285; p. 231.
- Day, Leonard. (See Winter, W. A., and Day.)
- Day, Luther F. (See Day, Charles B. and L. F., and Baker.)
- Day Perforator Company. (See Day, Alfred L., assignor.)
- Day, Schuyler E., New York, N. Y. Loose-leaf binder. No. 1,398,540; Nov. 29.
- Day, William L., Williamsport, Pa. Lifting-jack. No. 1,374,831; Apr. 12; v. 285; p. 322.
- Day, William L., Williamsport, Pa. Lifting-jack. No. 1,399,693; Dec. 6.
- Daynix, John C., Philadelphia, Pa. Hydrokinetic mechanism. No. 1,364,617; Jan. 4; v. 282; p. 110.
- Dayton Engineering Laboratories Company, The. (See Chryst, William A., assignor.)
- Dayton Engineering Laboratories Company, The. (See Haas, Nelson R., assignor.)
- Dayton Engineering Laboratories Company, The. (See Hunt, John H., assignor.)
- Dayton Engineering Laboratories Company, The. (See Kettering, C. F., and Chryst, assignors.)
- Dayton Engineering Laboratories Company. (See Kettering, Charles F., assignor.)
- Dayton Engineering Laboratories Company, The. (See Mooney, William H., assignor.)
- Dayton Engineering Laboratories Company, The. (See Schwarz, Elmer H., assignor.)
- Dayton Engineering Laboratories Company, The. (See Walter, Frank L., assignor.)
- Dayton, James M., administrator. (See Dayton, William H.)
- Dayton Steel Foundry Company, The. (See Walther, G., and Klinger, assignors.)
- Dayton Steel Foundry Company, The. (See Walther, George, assignor.)
- Dayton, William H., deceased; by J. M. Dayton, administrator, assignor to The Torrington Company, Torrington, Conn. Latch-needle-making machine. No. 1,381,810; June 14; v. 287; p. 334.
- Daywitt, Albert N., Frankfort, Ind. Road-grading machine. No. 1,379,748; May 31; v. 286; p. 897.
- Daywitt, Albert N., Frankfort, Ind. Dumping mechanism for road-graders. No. 1,379,749; May 31; v. 286; p. 897.
- Dazinsklene, Marjona O., St. Louis, Mo. Combination-board. No. 1,373,173; Mar. 29; v. 284; p. 865.
- Deacon, Ernest J. (See Wyles, William H., assignor.)
- Degan, J. C., Inc. (See Little, Frederick B., assignor.)
- Degan, John C., Chicago, Ill. Percussion musical instrument. No. 1,369,268; Feb. 22; v. 283; p. 610.
- Deakin, Gerald, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone-exchange system. No. 1,381,456; June 14; v. 287; p. 267.
- Deakins, Grover C. (See McAlvay, B. D., Hamer, and Deakins.)
- Deal, Isaiah E., Quilcene, Wash. Concrete-molding form. No. 1,389,817; Sept. 6; v. 290; p. 52.



*Alphabetical list of patentees—Continued.*

- Deal, Orval T. (See Doman, John P., assignor.)
- Deal, Ralph B., Flint, Mich. Film-pack kit. No. 1,399,694; Dec. 6.
- Deam, Henry D., Benton Harbor, Mich. Tongs. No. 1,376,323; Apr. 26; v. 285; p. 702.
- Deam, Henry D., Benton Harbor, Mich. Ship-salvaging apparatus. No. 1,377,404; May 10; v. 286; p. 253.
- Deam, Henry D., Benton Harbor, Mich., assignor of one-half to F. J. Petrovics, Chicago, Ill. Cofferdam. No. 1,395,631; Nov. 1.
- Deam, Henry D., Benton Harbor, Mich., assignor of one-half to F. J. Petrovics, Chicago, Ill. Ship-salvaging apparatus. No. 1,398,541; Nov. 29.
- Dean, Clark A., assignor, by mesne assignments, to Stark-Inland Machine Works, St. Louis, Mo. Register adapted to be applied to the floors or footboards of automobiles. No. 1,387,131; Aug. 9; v. 289; p. 303.
- Dean, Daniel A., Enid, Okla. Oil-distilling apparatus. No. 1,398,587; Nov. 29.
- Dean, Harry B., assignor of one-half to J. D. Howe, Up-land, Calif. Artificial honeycomb. No. 1,389,294; Aug. 30; v. 289; p. 896.
- Dean, Herbert, Clifton Junction, near Manchester, England. Non-spillable battery jar or container. No. 1,376,923; May 3; v. 286; p. 104.
- Dean, James H., Chicago, Ill. Sifter for flour-bins. No. 1,369,790; Mar. 1; v. 284; p. 7.
- Dean, James H., Chicago, Ill. Flour-sifter. No. 1,395,096; Oct. 25.
- Dean, James H., Chicago, Ill. Flour-sifter. No. 1,401,142; Dec. 27.
- Dean, John, Racine, Wis. Collar-fastener. No. 1,393,760; Oct. 18.
- Dean, John H., Grand Rapids, Mich. Tobacco stemming and booking machine. No. 1,387,244; Aug. 9; v. 289; p. 324.
- Dean, John S., Edgewood Park, Pa., assignor to Westing-house Electric & Manufacturing Company. Spring tension means for brush-holders. No. 1,381,289; June 14; v. 287; p. 236.
- Dean, John W. E., Yonkers, N. Y. Amusement and exercise apparatus. No. 1,371,867; Mar. 15; v. 284; p. 512.
- Dean, Marion E., Taunton, Mass. Tatting-shuttle. No. 1,401,053; Dec. 20.
- Dean, Merrell A., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Material-separator. No. 1,376,190; Apr. 26; v. 285; p. 676.
- Dean, Peter P., New York, N. Y. Means for regulating the flow of fluids. No. 1,388,632; Aug. 23; v. 289; p. 709.
- Dean, Peter P., New York, N. Y. Recording device for signal systems. No. 1,400,270; Dec. 13.
- Dean, Robert A., Tyler, Tex. Pump-actuating mechanism. No. 1,375,135; Apr. 19; v. 285; p. 443.
- Dean, Thomas, Indianapolis, Ind. Pasting device. No. 1,397,086; Nov. 15.
- Dean, William W., Rochester, N. Y., assignor to Splitdorf Electrical Company, Newark, N. J. Core structure for dynamos. No. 1,366,525; Jan. 25; v. 282; p. 608.
- Dean, William W., Stamford, Conn., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition-generator. No. 1,379,334; May 24; v. 286; p. 746.
- Dean, William W., Stamford, Conn., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition-generator. No. 1,389,034; Aug. 30; v. 289; p. 844.
- Dean, William W., assignor to Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Combined transmitter and receiver. No. 1,382,273; June 21; v. 287; p. 480.
- Dean, William W., Wilmette, Ill., assignor to Efficiency Electric Corporation, New York, N. Y. Motor-governing device. No. 1,393,433; Oct. 11.
- Deane, Maude B. (See Mcully, Thomas A., assignor.)
- Dear, William Y., Jersey City, N. J. Calendar-pad and mount therefor. No. 1,396,814; Nov. 15.
- Dearborn, Richard J., Plandome, N. Y., assignor to A. Kingsbury, Pittsburgh, Pa. Bearing. No. 1,391,463; Sept. 20; v. 290; p. 530.
- Dearing, Harold W., New York, N. Y. Preserve-jar opener. No. 1,389,818; Sept. 6; v. 290; p. 52.
- Deas, Coon A., assignor to Rock Hill Buggy Company, Rock Hill, S. C. Convertible roadster-body. No. 1,383,262; June 28; v. 287; p. 723.
- Deater, Willard F., assignor to McCroskey Tool Corporation, Meadville, Pa. Clamping device. No. 1,370,683; Mar. 8; v. 284; p. 222.
- Deaton, George H., Chicago, Ill. Record-calendar. No. 1,368,905; Feb. 15; v. 283; p. 500.
- Debaecker, Georges H. L., Sas-de-Gand, Netherlands, assignor to Société Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Apparatus for turning over sheets of glass to facilitate working on both sides of the sheets. No. 1,371,868; Mar. 15; v. 284; p. 513.
- Debaecker, Georges H. L., Sas-de-Gand, Netherlands, assignor to Société Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Apparatus for lifting and transporting glass and other plane-surface articles. No. 1,373,997; Apr. 5; v. 285; p. 121.
- De Bas, Willem J., The Hague, Netherlands. Producing artificial stone. No. 1,390,244; Sept. 6; v. 290; p. 137.
- De Bats, Jean H. L., Zellenople, assignor, by mesne assignments, to Lava Crucible Company of Pittsburgh, Pittsburgh, Pa. Crucible-furnace. No. 1,372,676; Mar. 29; v. 284; p. 765.
- De Bats, Jean H. L., Zellenople, assignor, by mesne assignments, to Lava Crucible Company of Pittsburgh, Pittsburgh, Pa. Making graphite crucible. No. 1,374,909; Apr. 19; v. 285; p. 399.
- De Bats, Jean H. L., Zellenople, assignor, by mesne assignments, to Lava Crucible Company of Pittsburgh, Pittsburgh, Pa. Making clay and graphite crucibles. No. 1,374,910; Apr. 19; v. 285; p. 399.
- De Baufre, William L., Highland Park, Mich. Gas-analysis apparatus. No. 1,384,603; July 12; v. 288; p. 329.
- De Baufre, William L., Annapolis, Md. Evaporator control. No. 1,387,475; Aug. 16; v. 289; p. 423.
- De Baufre, William L., Annapolis, Md. System for evaporating water. No. 1,387,476; Aug. 16; v. 289; p. 423.
- De Baufre, William L., Annapolis, Md. Apparatus for evaporating liquids. No. 1,390,676; Sept. 13; v. 290; p. 317.
- De Baufre, William L., Annapolis, Md. Evaporating apparatus. No. 1,390,677; Sept. 13; v. 290; p. 317.
- De Baun, Earl A., Minneapolis, Minn. Vehicle wheel and tire. No. 1,375,832; Apr. 26; v. 285; p. 607.
- De Beer, Jacob, Rotterdam, Netherlands. Keel-support with clamps for lifeboats. No. 1,364,730; Jan. 4; v. 282; p. 132.
- De Beers, Franklin M., Glencoe, assignor to Swenson Evaporator Company, Chicago, Ill. Fountain. No. 1,382,274; June 21; v. 287; p. 480.
- De Bellis, Gennaro, Philadelphia, Pa. Shower-bath device. No. 1,383,987; July 5; v. 288; p. 151.
- De Bergue & Company, Limited. (See Shaw, Richard, assignor.)
- De Bolotoff, Serge V., Sevenoaks, England. Silencer for internal-combustion engines. No. 1,370,197; Mar. 1; v. 284; p. 83.
- De Bolotoff, Serge V., Roehampton, London, England. Valve. No. 1,380,867; June 7; v. 287; p. 104.
- De Bouzek, Jean A., Salt Lake City, Utah. Automatic focusing device for cameras. No. 1,387,457; Aug. 16; v. 289; p. 419.
- De Brandt, William F., assignor to The Fogarty Patent Interchangeable Harvester Corporation Limited, Perth, Western Australia, Australia. Harvesting-machine. No. 1,372,282; Mar. 22; v. 284; p. 649.
- De Brandt, William F., Melbourne, Victoria, assignor to The Fogarty Patent Interchangeable Harvester Corporation Limited, Perth, Western Australia, Australia. Harvesting-machine. No. 1,372,283; Mar. 22; v. 284; p. 649.
- De Bruin, Frederik J., Rotterdam, Netherlands. Sugar-cane mill. No. 1,372,006; Mar. 22; v. 284; p. 596.
- De Brun, Frank H., assignor to Mudge & Company, Chicago, Ill. Automatic engine control. No. 1,367,806; Feb. 1; v. 283; p. 84.
- De Brun, Frank H., Chicago, Ill., assignor to The Necedah Manufacturing Corporation, Necedah, Wis. Power-plant mounting. No. 1,389,424; Aug. 30; v. 289; p. 922.
- De Camp, Ray E. (See James, H. D., and De Camp.)
- De Camp, Ray E., Wilkinsburg, Pa., assignor to Westing-house Electric and Manufacturing Company. Relay. No. 1,368,326; Feb. 15; v. 283; p. 387.
- DeCamp, Ray E., Wilkinsburg, Pa., assignor to Westing-house Electric & Manufacturing Company. Control system. No. 1,387,595; Aug. 16; v. 289; p. 448.
- De Camp, Ray E., Wilkinsburg, Pa., assignor to Westing-house Electric & Manufacturing Company. Current-limit relay. No. 1,392,249; Sept. 27; v. 290; p. 770.
- De Camp, Ray E., Wilkinsburg, Pa., assignor to Westing-house Electric & Manufacturing Company. Control system. No. 1,392,250; Sept. 27; v. 290; p. 771.
- De Camp, Ray E., Wilkinsburg, Pa., assignor to Westing-house Electric & Manufacturing Company. Relay. No. 1,392,251; Sept. 27; v. 290; p. 771.
- De-Caprio, Pasquale. (See Cinquegrana, A. P., and De-Caprio.)
- De Cárdenas, Ambrose. (See Ramos, R., and De Cárdenas.)
- De Caudemberg, Charles A. C., Nice-Gare, France. Paving composition and making the same. No. 1,395,396; Nov. 1.
- De Cew, Charles A., and W. F. Hirst, Cedar Rapids Iowa. Hand-power-driven band-saw. No. 1,374,638; Apr. 12; v. 285; p. 285.
- De Cew, Judson A., Mount Vernon, assignor to Process Engineers, Incorporated, New York, N. Y. Making emulsions. No. 1,370,884; Mar. 8; v. 284; p. 260.
- De Cew, Judson A., assignor to Process Engineers, Incorporated, New York, N. Y. Cook-tank. No. 1,372,123; Mar. 22; v. 284; p. 618.
- De Cew, Judson A., assignor to Process Engineers, Incorporated, New York, N. Y. Attachment to beating-engines. No. 1,377,616; May 10; v. 286; p. 292.
- De Cew, Judson A., New York, N. Y., assignor to Process Engineers, Inc. Rosin size solution. No. 1,382,346; June 21; v. 287; p. 494.
- De Cew, Judson A., Mount Vernon, assignor to Process Engineers, Incorporated, New York, N. Y. Rosin product. No. 1,394,610; Oct. 25.
- De Cew, Judson A., Mount Vernon, assignor to Process Engineers Incorporated, New York, N. Y. Engine-sizing for paper. No. 1,401,525; Dec. 27.



*Alphabetical list of patentees—Continued.*

- Déchelle, Benoit L., Lyon, France. Electric lighter. No. 1,371,869; Mar. 15; v. 284; p. 513.
- Decherd, Constant K., Middletown, Conn. assignor to International Silver Co., Meriden, Conn. Packing silverware. No. 1,387,132; Aug. 9; v. 289; p. 304.
- De Ciciliani, Antony, Los Angeles, Calif. Concrete-block-making machine. No. 1,375,953; Apr. 26; v. 285; p. 681.
- De Ciciliani, Antony, Los Angeles, Calif. Waterproofing composition and making same. No. 1,390,236; Sept. 6; v. 290; p. 135.
- Deck, Frank O., Milwaukee, Wis. Luminous attachment for electric-switch controllers. No. 1,386,241; Aug. 2; v. 289; p. 56.
- Deckebach, Henry E., Cincinnati, Ohio. Mashing process. No. 1,374,191; Apr. 12; v. 285; p. 193.
- Decker, Alfred, & Cohn. (See Serak, George E., assignor.)
- Decker, Frank A., New York, N. Y. Sanitary device. No. 1,385,985; Aug. 2; v. 289; p. 4.
- Decker, John, and A. C. Van Sluys, assignors to Nashua Gummed & Coated Paper Company, Nashua, N. H. Method of and apparatus for waxing paper. No. 1,385,042; July 19; v. 288; p. 500.
- Decker, John G., Stroudsburg, Pa. Electric-line-wire insulator. No. 1,382,483; June 21; v. 287; p. 521.
- Decker, Josiah, Jr. (See Contant, George C., assignor.)
- Decker, Lemuel E., Kenosha, Quebec, Canada. Stuff-regulator. No. 1,374,286; Apr. 12; v. 285; p. 216.
- Decker, Otto F. (See Starkey, Lucilla, assignor.)
- Deckert, Virgil F., Minneapolis, Minn. Tractor. No. 1,397,755; Nov. 22.
- De Clairmont, Adolfo, Toledo, Ohio. Transmission-lock for motor-vehicles. No. 1,398,455; Nov. 29.
- De Clairmont, Adolfo, assignor to The Carbo-Gas Company, Toledo, Ohio. Spark-plug. No. 1,381,167; June 14; v. 287; p. 214.
- De Clamecy, Philippe, New York, assignor to Corona Typewriter Company, Groton, N. Y. Folding typewriting-machine. No. 1,387,362; Aug. 9; v. 289; p. 350.
- De Clamecy, Philippe, Boston, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Oscillating fan. No. 1,390,762; Sept. 13; v. 290; p. 333.
- De Clamecy, Philippe, Boston, assignor to B. F. Sturtevant Company, Hyde Park, Mass. Oscillating fan. No. 1,394,975; Oct. 25.
- De Clerque, Alvin W. (See Payne, H. D., De Clerque, and Sjoberg.)
- De Coster, Lester H., Jackson, Mich. Washing-machine. No. 1,385,205; July 19; v. 288; p. 534.
- Decrow, David A., Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation. Pump-valve. No. 1,379,173; May 24; v. 286; p. 715.
- Decrow, David A., Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation. Pump-plunger. No. 1,380,363; June 7; v. 287; p. 8.
- Decrow, David A., Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation. Pump. No. 1,380,364; June 7; v. 287; p. 8.
- Decrow, David A., Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation. Steam pumping-engine. No. 1,380,365; June 7; v. 287; p. 8.
- De Curtis, Frank, Medford, Mass. Permutation-lock. No. 1,369,521; Feb. 22; v. 283; p. 658.
- Dacey, Richard J., Jersey City, N. J. Shipping-package. No. 1,388,804; Aug. 23; v. 289; p. 743.
- Dederer, Carleton, Los Angeles, Calif. Fluid-mixing device. No. 1,366,120; Jan. 18; v. 282; p. 485.
- Dederich, Joseph S., Racine, Wis. Device for loosening compressed material. No. 1,398,129; Nov. 22.
- Dedik, Yuraj, Boswell, Pa. Ship-protector. No. 1,397,405; Nov. 15.
- De Dragic, Theodore, and Albert Schwarz, assignors to U. S. Armor Corporation, New York, N. Y. Bullet-proof armor. No. 1,398,682; Nov. 29.
- Dee, John. (See Grable, Guy E., assignor.)
- Dee, William C., Cleveland, Ohio. Switch mechanism for X-ray machines. No. 1,396,815; Nov. 15.
- De Echevarria, Ramon, Santa Cruz, Philippine Islands. Ink-content-indicating fountain-pen. No. 1,372,608; Mar. 22; v. 284; p. 711.
- De Echevarria, Ramon, Santa Cruz, Philippine Islands. Combined toilet article. No. 1,372,609; Mar. 22; v. 284; p. 711.
- Deeg, Gustav, Newark, N. J. Electric door-lock. No. 1,377,061; May 3; v. 286; p. 130.
- Deeks, Hugh A., Moose Jaw, Saskatchewan, Canada. Gasolene-purifier. No. 1,376,681; May 3; v. 286; p. 56.
- Deely, Harold P., Waterbury, Conn. Swivel-block for heading-machines. No. 1,377,005; May 3; v. 286; p. 119.
- Deems Edward M., Forest Hills, N. Y., and L. W. Willis, Hoboken, N. J., assignors to Eastern Signal & Supply Company, Inc., New York, N. Y. Battery. No. 1,373,801; Apr. 5; v. 285; p. 82.
- Deems, Edward M., Forest Hills, N. Y., and L. W. Willis, Montville, N. J., assignors to Eastern Signal & Supply Company, Inc., New York, N. Y. Battery. No. 1,373,802; Apr. 5; v. 285; p. 82.
- Deen, James S. (See McGrother, J. F., and Deen.)
- Deep Water Salvage and Drydock Company. (See Dawson, John N., assignor.)
- Deere & Company. (See Baxter, Philip H., assignor.)
- Deere & Company. (See Carlson, Oscar F. H., assignor.)
- Deere and Company. (See Dain, Joseph, assignor.)
- Deere & Company. (See Huddle, Edwin F., assignor.)
- Deere & Company. (See Knappenberger, Jacob R., assignor.)
- Deere & Company. (See Raisbeck, Frank, assignor.)
- Deere & Company. (See Strandlund, Carl G., assignor.)
- Deere & Company. (See Vanderbilt, Farley D., assignor.)
- Deere & Company. (See White, Charles E., assignor.)
- Deere & Company. (See Wilson, Frederick D., assignor.)
- De Escobales, Hilarion, New York, N. Y. Blank-feeding mechanism. No. 1,377,810; May 10; v. 286; p. 330.
- De Escobales, Hilarion, Staten Island, assignor to H. Escobales Co., Inc., New York, N. Y. Production of packages. No. 1,381,087; June 7; v. 287; p. 147.
- De Escobales, Hilarion, assignor to H. Escobales Co., Inc., New York, N. Y. Paper-feeding mechanism. No. 1,383,267; June 28; v. 287; p. 724.
- De Escobales, Hilarion, assignor to H. Escobales Co., Inc., New York, N. Y. Method of and apparatus for packaging articles. No. 1,391,173; Sept. 20; v. 290; p. 479.
- De Escobales, Hilarion, assignor to H. Escobales Co., Inc., New York, N. Y. Apparatus for producing packages. No. 1,391,174; Sept. 20; v. 290; p. 479.
- De Feo, Albert, Boston, Mass., assignor to American Can Company, New York, N. Y. Rectangular-can-end-feed device and feeding can ends. No. 1,365,819; Jan. 18; v. 282; p. 426.
- Defance Machine Works. (See McCarty, William F., assignor.)
- De Fore, Thomas M., assignor of one-half to W. T. Olson, Minneapolis, Minn. Support for liquid-soap containers. No. 1,387,363; Aug. 9; v. 289; p. 350.
- De Forest, Lee, New York, N. Y. Endless-film arrangement. No. 1,365,237; Jan. 11; v. 282; p. 273.
- De Forest, Lee, assignor to De Forest Telephone and Telegraph Company, New York, N. Y. Apparatus for use in telegraphy or telephony. No. 1,365,157; Jan. 11; v. 282; p. 258.
- De Forest, Lee, New York, N. Y., assignor, by mesne assignments, to De Forest Radio Telephone and Telegraph Company. Means for amplifying currents. No. 1,375,447; Apr. 19; v. 285; p. 503.
- De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Audion-circuit. No. 1,377,405; May 10; v. 286; p. 253.
- De Forest, Lee, assignor to De Forest Radio Telephone and Telegraph Company, New York, N. Y. Selective audion amplifier. No. 1,397,575; Nov. 22.
- De Forest Radio Telephone and Telegraph Company. (See De Forest, Lee, assignor.)
- De Forest Radio Telephone and Telegraph Company. (See Gowen, Robert F., assignor.)
- De Forest Telephone and Telegraph Company. (See De Forest, Lee, assignor.)
- De Forest, Winthrop A., Toledo, Ohio. Door-operating mechanism. No. 1,371,229; Mar. 15; v. 284; p. 388.
- De Forrest, George R., Uhrichsville, Ohio. Wall construction. No. 1,377,062; May 3; v. 286; p. 130.
- De Fortuny y de Carpi, Teotimo, Barcelona, Spain. Construction of portable houses and buildings. No. 1,380,641; June 7; v. 287; p. 60.
- Degener, Edward K., Lewistown, Mont. Rail-spike lock. No. 1,364,483; Jan. 4; v. 282; p. 85.
- Degener, Gustave O., Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Computing-machine. No. 1,390,278; Sept. 13; v. 290; p. 236.
- Degenhart, George J., Springfield, Ohio. Drainage-tube. No. 1,391,464; Sept. 20; v. 290; p. 538.
- De Giers, Clarence A., Keyport, N. J., assignor to W. H. Barker, New Brighton, N. Y. Airplane-screw. No. 1,384,308; Jan. 12; v. 288; p. 266.
- De Gloppe, John L. (See Olinger, T., and De Gloppe.)
- Degner, Charles F., et al. (See Stephens, Richard M., assignor.)
- De Graff, Jan, Detroit, Mich. Furnace-cleaner. No. 1,388,560; Aug. 23; v. 289; p. 695.
- De Graff, Rudi, assignor to Atalanta Engineering Corporation, New York, N. Y. Diving-suit. No. 1,368,786; Feb. 15; v. 283; p. 477.
- De Graff, Rudi, assignor to Atalanta Engineering Corporation, New York, N. Y. Recovering sunken vessels. No. 1,368,787; Feb. 15; v. 283; p. 477.
- De Graff, Tracy, Pasadena, Calif. Safety hand-rail for street-cars and the like. No. 1,367,538; Feb. 8; v. 283; p. 188.
- De Grasse, George F., Los Angeles, Calif. Tilting bed. No. 1,393,885; Oct. 18.
- De Grazia, Ferdinand, Washington, D. C. Safety-razor. No. 1,400,031; Dec. 13.
- De Grazia, Samuel, Washington, D. C. Rubber heel. No. 1,398,631; Nov. 29.
- Degree Incubator Company 103. (See Kaiser, Peter, assignor.)
- De Groussau, Edouard, and A. Vicongne, Clichy, France. Treatment of cocoa waste. No. 1,386,166; Aug. 2; v. 289; p. 41.
- De Guardia-Calmètes, Paul, Cayeux-sur-Mer, France. Apparatus for the transformation of reeds into woven fabrics suitable for the manufacture of ceiling lath-work, baskets, receptacles, and the like. No. 1,373,721; Apr. 5; v. 285; p. 66.
- De Haas, Percy, Rock Ferry, England. Disk talking-machine. No. 1,369,269; Feb. 22; v. 283; p. 610.



## Alphabetical list of patentees—Continued.

- De Haven, Benjamin H., Pittsburgh, Pa. Shaving-brush. No. 1,382,347; June 21; v. 287; p. 494.
- De Haven, Harvey, Red Lodge, Mont. Cabinet. No. 1,369,303; Feb. 22; v. 283; p. 615.
- De Haven, Hugh, Jr. (See Drew, C. L., and De Haven.)
- Dehaven, Joseph P. (See Forkner, R. F., and Dehaven.)
- De Haven, William L., Wichita, assignor to J. W. Moyle, Augusta, Kans. Toy. No. 1,400,942; Dec. 20.
- Dehle, Otto T., Columbus, Ohio. Hatband. No. 1,366,890; Jan. 25; v. 282; p. 681.
- De Hymel, Leo B., Denver, Colo. Non-skid and traction band for lawn-mower wheels. No. 1,382,067; June 21; v. 287; p. 442.
- Deichmann, Albert. (See Wenschow, Karl, assignor.)
- Deichmann, Otto A., Willows, Calif. Building construction. No. 1,400,144; Dec. 13.
- Deisch, William E., Portland, Oreg. Gas-engine. No. 1,376,800; May 3; v. 286; p. 79.
- De Isles, Leonard H., Chicago, Ill. Cable for thermoelectric circuits of grain-tanks. No. 1,365,465; Jan. 11; v. 282; p. 318.
- Deister, Emil, assignor to Deister Machine Company, Fort Wayne, Ind. Ore-concentrator. No. 1,381,862; June 14; v. 287; p. 344.
- Deister, Emil, assignor to Deister Machine Company, Fort Wayne, Ind. Ore-concentrator. No. 1,382,275; June 21; v. 287; p. 481.
- Deister, Emil and W. F., assignors to Deister Machine Company, Fort Wayne, Ind. Supporting mechanism for ore-concentrators. No. 1,382,276; June 21; v. 287; p. 481.
- Deister Machine Company. (See Deister, Emil, assignor.)
- Deister Machine Company. (See Deister, Emil and W. F., assignors.)
- Deister, William F. (See Deister, Emil and W. F.)
- Deitz, Abraham, *et al.* (See Franklin, Jacob M., assignor.)
- Deitz, Emanuel, *et al.* (See Franklin, Jacob M., assignor.)
- Deitz, Henry, Denver, Colo. Support for holding open the side members of automobile-hoods. No. 1,371,740; Mar. 15; v. 284; p. 488.
- De Jahn, Frederick W., assignor to General Chemical Company, New York, N. Y. Outlet for acid-receptacles. No. 1,366,170; Jan. 18; v. 282; p. 494.
- De Jong, Jan C., Lancing, England. Greenhouse and horticultural frame. No. 1,368,613; Feb. 15; v. 283; p. 443.
- De Khotinsky, Achilles, assignor to Central Scientific Company, Chicago, Ill. Thermosensitive circuit-controller. No. 1,375,780; Apr. 26; v. 285; p. 597.
- De Khotinsky, Achilles, assignor to Central Scientific Company, Chicago, Ill. Electrically-heated incubator. No. 1,381,109; June 14; v. 287; p. 203.
- De Koning, Arthur E., Portland, Oreg. Sawing-machine. No. 1,364,356; Jan. 4; v. 282; p. 60.
- De La Barre, Alfred J., Minneapolis, Minn. Device for securing demountable wheels. No. 1,375,037; Apr. 19; v. 285; p. 424.
- De la Chevardiere de la Grandville, Henri J. L. M. (See Filippi, Antoine P., assignor.)
- Delacourt, Alberto F., assignor to Società Anonima Italiana Gio. Ansaldo & C., Genoa, Italy. Heating-furnace with removable hearth. No. 1,401,054; Dec. 20.
- Delafond, Elie, Habana, Cuba. Manufacture of sugar direct from the juice. No. 1,371,997; Mar. 15; v. 284; p. 537.
- Delage, Gustave, assignor to Societe Anonyme Des Etablissements Nieuport, Issy-les-Moulineaux, France. Aeroplane. No. 1,364,731; Jan. 4; v. 282; p. 132.
- De Laitte, Leopold B. (See Levé, M. S., and de Laitte.)
- Delamare, René L. J., Bois-Colombes, France. Apparatus for cutting toothed gear-wheels. No. 1,401,323; Dec. 27.
- De La Mare, Thomas, Tooele, Utah. Concrete mold or form. No. 1,389,128; Aug. 30; v. 289; p. 863.
- De La Monte, Cascius H., assignor to International Motor Company, New York, N. Y. Drag-link. No. 1,376,383; Apr. 26; v. 285; p. 713.
- De La Monte, Cascius H., assignor to International Motor Company, New York, N. Y. Drag-link. No. 1,382,175; June 21; v. 287; p. 462.
- De la Mota, Francisco E., La Vega, Dominican Republic. Bit. No. 1,368,704; Feb. 15; v. 283; p. 462.
- Delaney, James T., assignor to The Emca Manufacturing Company, Bridgeport, Conn. Fire-alarm. No. 1,368,230; Feb. 8; v. 283; p. 321.
- De Laney, Jeremiah L., assignor to Vortex Washer Corporation, Syracuse, N. Y. Washing and drying machine. No. 1,390,678; Sept. 13; v. 290; p. 317.
- Delaney, Paul J., New York, N. Y. Bake-oven. No. 1,370,008; Mar. 1; v. 284; p. 48.
- De Lange, Pieter, and Robert A. B. van Lynden, Utrecht, Netherlands, assignors, by mesne assignments, to American Thermophone Company, Boston, Mass. Earpiece for thermic telephones. No. 1,366,567; Jan. 25; v. 282; p. 617.
- De Lange, Pieter, and R. A. B. van Lynden, Utrecht, Netherlands, assignors, by mesne assignments, to American Thermophone Company, Boston, Mass. Thermic telephone. No. 1,367,949; Feb. 8; v. 283; p. 266.
- De Lange, P., and R. A. Baron van Lynden, Utrecht, Netherlands, assignors, by mesne assignments, to American Thermophone Company, Boston, Mass. Thermic telephone-transmitter. No. 1,389,242; Aug. 30; v. 289; p. 885.
- De Langie, Godfrey A. (See Oca-Balda, J. A., and De Langie.)
- Delano, Carl S., Baltimore, assignor of one-half to R. Macgill, Catonsville, Md. Spark-plug. No. 1,370,789; Mar. 8; v. 284; p. 242.
- De Lano, Charles F., Spokane, Wash. Manifold-shield. No. 1,377,811; May 10; v. 286; p. 331.
- Delano, James K., New York, N. Y. Automatic cut-out apparatus. No. 1,371,990; Mar. 15; v. 284; p. 536.
- Delano, James K., New York, N. Y. Electrical system for motor-vehicles. No. 1,391,880; Sept. 27; v. 290; p. 695.
- Delano, James K., New York, N. Y. System of electrical distribution. No. 1,392,252; Sept. 27; v. 290; p. 771.
- De Lany, Edwin H., and S. H. Payne, New York, N. Y. Apparatus for determining the amount of certain constituents in gases. No. 1,395,560; Nov. 1.
- Delany, Patrick B., South Orange, N. J. Sound-box diaphragm. No. 1,401,143; Dec. 27.
- Delas, Albert, Paris, France, assignor to Delas Condenser Corporation, New York, N. Y. Steam-ejector. No. 1,374,990; Apr. 19; v. 285; p. 414.
- Delas Condenser Corporation. (See Delas, Albert, assignor.)
- Delaunay, Jules E. (See Dimitri, G. L., and Delaunay.)
- De Laval Separator Company, The. (See Alexander, Wallace, assignor.)
- De Laval Separator Company, The. (See Hall, Selden H., assignor.)
- De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)
- De Laval Separator Company, The. (See Hulbert, John L., assignor.)
- De Laval Separator Company, The. (See Leitch, Meredith, assignor.)
- De Laval Separator Company, The. (See Wright, Bert R., assignor.)
- De Lavandeyra, Alberto, Springfield, Mass. Aluminum alloy and making same. No. 1,365,178; Jan. 11; v. 282; p. 262.
- De Lavaud, Dimitri S., New York, N. Y. Rotary casting. No. 1,377,406; May 10; v. 286; p. 253.
- De Lavaud, Dimitri S., New York, N. Y. Rotary casting. No. 1,398,008; Nov. 22.
- De Lavaud, Dimitri S., New York, N. Y. Topographical recorder. No. 1,401,242; Dec. 27.
- Delaware Chair Company, The. (See Derbyshire, Philo O., assignor.)
- Delaware Chemical Engineering Company. (See Du Pont, Francis I., assignor.)
- Delay, Eugene, Geneva, Switzerland. Cattle-mark. No. 1,390,342; Sept. 13; v. 290; p. 249.
- De Laye, Hiram R., St. Louis, Mo. Folding crate. No. 1,369,402; Feb. 22; v. 283; p. 635.
- Delco-Light Company. (See Dickey, Ernest, assignor.)
- Delco-Light Company. (See Grant, Ralph H., assignor.)
- Delco-Light Company. (See Kettering, C. F., and Chryst, assignors.)
- Delco-Light Company. (See Kettering, Charles F., assignor.)
- Delco-Light Company. (See Midgley, Thomas, Jr., assignor.)
- Delcourt, Charles. (See Cartier, J., and Delcourt.)
- Delcourt, Joseph F., New Bedford, Mass. Clasp. No. 1,377,116; May 3; v. 286; p. 141.
- Delcourt, Joseph F., New Bedford, Mass. Clasp. No. 1,382,484; June 21; v. 287; p. 521.
- De Leysat, Adelin G. A. S., Etterbeek-Brussels, and C. D. Discry, Ixelles-Brussels, Belgium. Apparatus for insuring the correct position of the fingers and hand in writing. No. 1,379,804; May 31; v. 286; p. 908.
- Delino, José, Buenos Aires, Argentina. Axle-box or wheel-hub box and lubricating-cup for plow-wheels. No. 1,364,484; Jan. 4; v. 282; p. 85.
- Delich, Petar, Duluth, Minn. Pump. No. 1,394,611; Oct. 25.
- Delille, Edmond, Lyon, France. Electric heater. No. 1,373,117; Mar. 29; v. 284; p. 853.
- Delion Tire and Rubber Company. (See Kennedy, John F., assignor.)
- De Lisle, Harold L., Chicago, Ill. Filing-cabinet. No. 1,381,907; June 21; v. 287; p. 413.
- Delissio, Guy A., Delmont, Pa. Rail-joint. No. 1,386,847; Aug. 9; v. 289; p. 247.
- Delkeskamp, Henry D. (See Mulherin, James A., assignor.)
- Delkin, Anton, Seattle, Wash. Drying apparatus. No. 1,371,199; Mar. 8; v. 284; p. 319.
- Dell, Albert, assignor of one-half to T. C. Ulmer, Philadelphia, Pa. Windshield-cleaner. No. 1,389,129; Aug. 30; v. 289; p. 863.
- Dell, Bradford A., Detroit, Mich. Speed-control device. No. 1,371,147; Mar. 8; v. 284; p. 310.
- Dell, Mary E., Glendale, Calif. Hygienic garter and supporter. No. 1,391,100; Sept. 20; v. 290; p. 464.
- Dell, Phillip J., Jr., Waycross, Ga., assignor to W. J. Gassett, Ware county, Ga. Engine-timer. No. 1,385,907; July 26; v. 288; p. 752.
- Dellamaria, Luigi, Tulare, Calif. Lock-alarm. No. 1,391,176; Sept. 20; v. 290; p. 479.
- Dellarowe, A. K., *et al.* (See Martin, Charles H., assignor.)
- Dellenbarger, Charles E., Chicago, Ill. Display apparatus. No. 1,395,397; Nov. 1.



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- Dellenbarger, Charles E., Chicago, Ill. Sheet-handling machine. No. 1,395,909; Nov. 1.
- Dellert, William J. (See Hines, R. E., Dellert, and Stachle.)
- Delleff, Louis A., and T. E. Gough, Rush Center, Kans. Tractor steering-hitch. No. 1,372,677; Mar. 29; v. 284; p. 765.
- Dellinger, Abraham M., Lancaster, Pa. Sheaf-elevator. No. 1,395,561; Nov. 1.
- Dellinger, David P., *et al.* (See Dellinger, Robert J., assignor.)
- Dellinger, Robert J., assignor of one-third to D. P. Dellinger and one-third to M. L. Craft, Cherryville, N. C. Yardage-register for cloth folding and measuring machines. No. 1,364,081; Jan. 4; v. 282; p. 6.
- DelMarmol, Charles J., Frankford, Pa. Pile-cutter for looms. No. 1,368,551; Feb. 15; v. 283; p. 432.
- Delmore Manufacturing Co. (See Billings, Cecil M., assignor.)
- De Long, Carl R., Washington, D. C., and W. N. Watson, Auburn, Me. Vulcanization of natural or artificial rubber or rubber-like substances. No. 1,364,732; Jan. 4; v. 282; p. 132.
- De Long, George R., Harriman, Pa. Nut. No. 1,375,781; Apr. 26; v. 285; p. 597.
- De Long, George R., Harriman, Pa. Nut. No. 1,375,782; Apr. 26; v. 285; p. 597.
- DeLong, Susan E., Fellows, Calif. Receptacle. No. 1,392,559; Oct. 4.
- De Long, Willard W., and J. A. Rook, Berkeley, Calif. Vehicle-wheel. No. 1,394,286; Oct. 18.
- Del Porto, Rinaldo, Vallejo, Calif. Drill extension. No. 1,376,139; Apr. 26; v. 285; p. 667.
- Del Turco, Louis, Newark, N. J. Dividing-strip for cementitious floors. No. 1,368,374; Feb. 15; v. 283; p. 397.
- Del Turco, Louis, Newark, N. J. Divider for cementitious floors. No. 1,401,590; Dec. 27.
- De Luca, Frank, Bowdens, N. C. Pen or pencil attachment. No. 1,373,310; Mar. 29; v. 284; p. 892.
- De Luiz, Edward R., Detroit, Mich., assignor to Kelvinator Corporation, Wilmington, Del. Compressor. No. 1,364,082; Jan. 4; v. 282; p. 6.
- De Lukacsevics, Charles, New York, N. Y. Internal-combustion engine. No. 1,377,897; May 10; v. 286; p. 348.
- De Lukacsevics, Charles, New York, N. Y. Internal-combustion engine. No. 1,377,898; May 10; v. 286; p. 348.
- De Lukacsevics, Charles, New York, N. Y. Internal-combustion engine. No. 1,382,485; June 21; v. 287; p. 521.
- De Lukacsevics, Charles, Newark, N. J., assignor to E. Loffler, New York, N. Y. Internal-combustion engine. No. 1,390,888; Sept. 13; v. 290; p. 359.
- De Lukacsevics, Charles, and E. Loffler, New York, N. Y. Internal-combustion engine. No. 1,377,899; May 10; v. 286; p. 348.
- De Lukacsevics, Charles, and E. Loffler, New York, N. Y. Annular valve construction. No. 1,390,967; Sept. 13; v. 290; p. 375.
- De Lukacsevics, Charles, and E. Loffler, New York, N. Y. Piston. No. 1,398,778; Nov. 22.
- De Luxe Brush Company, The. (See Shalkop, Isaac C., assignor.)
- Demand, Joseph, New York, N. Y. Windshield-cleaner. No. 1,370,684; Mar. 8; v. 284; p. 222.
- Demarest, Charles F. (See Toomey, J. F., and Demarest.)
- Demarest, Charles S. (See Clark, A. B., and Demarest.)
- Demarest, Charles S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Transmission-circuits. No. 1,367,590; Feb. 8; v. 283; p. 198.
- Demarest, Charles S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Network-selecting circuits. No. 1,377,242; May 10; v. 286; p. 221.
- Demarest, Charles S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Repeater controlling system for four-wire telephone-circuits. No. 1,381,545; June 14; v. 287; p. 284.
- Demarest, Charles S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telephone repeater equipment. No. 1,386,321; Aug. 2; v. 289; p. 72.
- Demarest, Charles S., New York, N. Y., assignor to American Telephone and Telegraph Company. Repeater-controlling system for four-wire circuits. No. 1,394,189; Oct. 18.
- Demarest, Charles S., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Testing system for four-wire circuits. No. 1,394,190; Oct. 18.
- Demarest, Charles S., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical testing-circuits. No. 1,399,695; Dec. 6.
- Demarest, Charles S., and H. F. Shoffstall, assignors to American Telephone and Telegraph Company, Brooklyn, N. Y. Testing apparatus. No. 1,369,403; Feb. 22; v. 283; p. 636.
- Demarest, Charles S., Brooklyn, and S. P. Shackleton, New York, N. Y., assignors to American Telephone and Telegraph Company. Repeater-circuits. No. 1,382,631; June 28; v. 287; p. 603.
- Demarest, Charles S., New York, A. B. Clark, Brooklyn, N. Y., and G. Crisson, Hoboken, N. J., assignors to American Telephone and Telegraph Company. Telephone repeater equipment. No. 1,384,994; July 19; v. 288; p. 491.
- Demarest, Charles S., Brooklyn, N. Y., and John Davidson, Jr., Montclair, N. J., assignors to American Telephone and Telegraph Company. Signaling system. No. 1,400,732; Dec. 20.
- Demarest, Thomas W., Pittsburgh, Pa. Journal-box lubricator. No. 1,396,734; Nov. 15.
- De Maria, John L., assignor, by mesne assignments, to Settles Pen Company, Chicago, Ill. Fountain-pen attachment. No. 1,372,011; Mar. 22; v. 284; p. 597.
- Demarne, Désiré P., Issy-les-Moulineaux, France. Mechanical transmission. No. 1,385,247; July 19; v. 288; p. 542.
- De Martin, Charles L., assignor to Indiana Lamp Company, Connersville, Ind. Lamp-door construction. No. 1,369,732; Feb. 22; v. 283; p. 700.
- De Martin, Charles L., and W. M. Matteoli, assignors to Indiana Lamp Company, Connersville, Ind. Lamp construction. No. 1,366,905; Feb. 1; v. 283; p. 5.
- De Martin, Charles L., W. M. Matteoli, Connersville, and S. F. Arbuckle, Indianapolis, assignors, by mesne assignments, to United States Automotive Corporation, Connersville, Ind. Lamp construction. No. 1,376,191; Apr. 26; v. 285; p. 676.
- De Martino, Joseph, assignor to Simplex Corporation, Chicago, Ill. Steering-wheel lock. No. 1,366,066; Jan. 18; v. 282; p. 474.
- Demas, Demetrios J., Pittsburgh, Pa. Tire. No. 1,383,190; June 28; v. 287; p. 709.
- De Mattia, Barthold, Clifton, N. J. Collapsible core. No. 1,389,440; Aug. 30; v. 289; p. 925.
- De Mattia, Barthold, Clifton, N. J. Collapsible core. No. 1,389,441; Aug. 30; v. 289; p. 925.
- De Mattia, Barthold, Clifton, N. J. Apparatus for making pneumatic tires. No. 1,389,442; Aug. 30; v. 289; p. 925.
- De Mattia, Constant, assignor to Wolverine Truck-Trailer Co., Detroit, Mich. Trailer attachment for motor-vehicles. No. 1,368,705; Feb. 15; v. 283; p. 462.
- De Mattia, Peter, Clifton, N. J. Collapsible core and chuck. No. 1,389,438; Aug. 30; v. 289; p. 925.
- De Mattia, Peter, Clifton, N. J. Collapsible core. No. 1,389,439; Aug. 30; v. 289; p. 925.
- DeMattos, Walter, Ottawa, Ontario, Canada. Means for supplying temporary table-covers. No. 1,397,800; Nov. 22.
- Dembowski, Stephen, assignor of one-third to S. Rutkowski and one-third to J. Barnikowski, Hamtramck, Mich. Receptacle. No. 1,367,242; Feb. 1; v. 283; p. 72.
- Dement, John M., Indian Head, Md. Automobile-lock. No. 1,369,886; Mar. 1; v. 284; p. 25.
- Demerath, Joseph M., assignor to Roblin-Demerath Co., Inc., Rochester, N. Y. Machine for blanching nuts. No. 1,364,083; Jan. 4; v. 282; p. 7.
- Demers, Arthur E., assignor to American Optical Company, Southbridge, Mass. Pitch-pot. No. 1,178,528; May 17; v. 286; p. 519.
- Demers, Charles L., Claremont, N. H. Container-fastener. No. 1,366,638; Jan. 25; v. 282; p. 631.
- Demeter, John, Stratton, Ontario, Canada. Railway-rail joint. No. 1,391,465; Sept. 20; v. 290; p. 538.
- Demetropoulos, George D., New York, N. Y. Amusement device. No. 1,369,887; Mar. 1; v. 284; p. 25.
- De Meulle, Bernard C. (See Dalton, J., and De Meulle.)
- De Mentter, Leopold, San Francisco, Calif. Gas-plate. No. 1,395,097; Oct. 25.
- De Milly, John W., administrator. (See Collins, William T.)
- Deming, Charles M., Dayton, Ohio. Indicator. No. 1,377,006; May 3; v. 286; p. 119.
- Deming & Gould Company. (See Malmquist, Adolph K., assignor.)
- Deming, William L., Salem, Ohio. Cash-recording device. No. 1,375,490; Apr. 19; v. 285; p. 511.
- Demko, Michal, Conshohocken, Pa. Fly-catcher. No. 1,371,870; Mar. 15; v. 284; p. 513.
- De Montmolin, Guillaume, and H. J. Spieler, assignors to "Society of Chemical Industry in Basle," Basel, Switzerland. Dyestuffs and making the same. No. 1,387,596; Aug. 16; v. 289; p. 448.
- De Mooy, Charles W., assignor to The De Mooy Electric Co., Cleveland, Ohio. High-frequency machine. No. 1,376,080; Apr. 26; v. 285; p. 656.
- De Mooy, Charles W., assignor to The De Mooy Electric Co., Cleveland, Ohio. High-frequency generator of the transformer type. No. 1,376,081; Apr. 26; v. 285; p. 656.
- De Mooy Electric Co., The. (See De Mooy, Charles W., assignor.)
- Demountable Spring Tire Company. (See Cunningham, James, assignor.)
- Demountable Spring Tire Company. (See Neimeyer, Charles, assignor.)
- De More, Leonel A., Oak Park, assignor to Mercury Manufacturing Company, Chicago, Ill. Driving mechanism for motor-vehicles. No. 1,387,477; Aug. 16; v. 289; p. 423.
- Demorest, Edmund L., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Tractor-cleat. No. 1,380,366; June 7; v. 287; p. 8.
- Demoville, James L. (See Liggett, John C., assignor.)
- Dempler, George P., assignor by mesne assignments, to Protected Seal Valve Company, Pittsburgh, Pa. Valve. No. 1,384,432; July 12; v. 288; p. 293.



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- Dempster, George P., assignor to Protected Seat Valve Company, Pittsburgh, Pa. Valve. No. 1,387,841; Aug. 16; v. 289; p. 497.
- Dempster, Harry V., Minneapolis, Minn. Sanitary mouth-piece-cover. No. 1,369,630; Feb. 22; v. 283; p. 680.
- Demulung, Edward, *et al.* (See Brock, Joseph, assignor.)
- De Mund, Frank B., East Stroudsburg, Pa. Air-coupling. No. 1,370,790; Mar. 8; v. 284; p. 242.
- Demuth, Alfred M., Chicago, Ill. Individual work-holder for slicing-machines. No. 1,372,487; Mar. 22; v. 284; p. 688.
- Demuth, Alfred M., assignor to J. A. Kelly, Chicago, Ill. Individual work-holder attachment for slicing-machines. No. 1,373,952; Apr. 5; v. 285; p. 112.
- Demuth, Alfred M., assignor to Demuth Manufacturing Company, Chicago, Ill. Cooking apparatus. No. 1,393,761; Oct. 18.
- Demuth, Alfred M., assignor to Demuth Manufacturing Company, Chicago, Ill. Cooking apparatus. No. 1,393,762; Oct. 18.
- Demuth, Alfred M., assignor to Demuth Manufacturing Company, Chicago, Ill. Cooking apparatus. No. 1,393,763; Oct. 18.
- Demuth Manufacturing Company. (See Demuth, Alfred M., assignor.)
- Den Besten, Gerrit. (See Hulsebos, A. B., and Den Besten.)
- Denham, Charles T., Massa, Italy. Haulage apparatus. No. 1,396,627; Nov. 8.
- Denham, William L., Birmingham, assignor of one-half to H. H. McNeill, Demopolis, Ala. Aeroplane. No. 1,366,067; Jan. 18; v. 282; p. 474.
- Den-Hart Manufacturing Company. (See Denis, William E., assignor.)
- Denis, Albert D., *et al.* (See Trudel, Joseph H., assignor.)
- Denis, Louis, Liege, Belgium. Refractory material. No. 1,365,230; Jan. 11; v. 282; p. 272.
- Denis, Luc L. B., Paris, France. Dynamic system adapted to impart to a mechanical system a rapid movement of oscillation. No. 1,393,671; Oct. 11.
- Denis, William E., assignor to Den-Hart Manufacturing Company, New Haven, Conn. Washing-machine. No. 1,395,178; Oct. 25.
- Denison, Frederick S., assignor to Minneapolis Heat Regulator Company, Minneapolis, Minn. Thermostatic switch. No. 1,390,987; Sept. 20; v. 290; p. 441.
- Denison, Henry A., Waterville, Me. Detachable tread for traction-wheels. No. 1,377,321; May 10; v. 286; p. 236.
- Denison, Howard P., Syracuse, N. Y. Apparatus for coloring or printing thread. No. 1,384,940; July 19; v. 288; p. 478.
- Denk, Franz J., Crafton, Pa. Surface-combustion furnace. No. 1,365,769; Jan. 18; v. 282; p. 416.
- Denker, Charles T., and H. R. Winton, Chicago, Ill. Strainer and fish-trap for water-lines. No. 1,370,685; Mar. 8; v. 284; p. 222.
- Denman-Jones, Adrian, Holloway, London, England. Heating device for automobiles. No. 1,393,093; Oct. 11.
- Denman, Walter R., Cleveland, Ohio. Core for use in curing pneumatic tires. No. 1,380,537; June 7; v. 287; p. 40.
- Denmire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Pipe or hose coupling. No. 1,375,136; Apr. 19; v. 285; p. 443.
- Denmire, Harold A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Thread-guide for ball-winders. No. 1,391,247; Sept. 20; v. 290; p. 494.
- Denmire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Box-making machine. No. 1,391,669; Sept. 27; v. 290; p. 653.
- Denmire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Collapsible tire-core. No. 1,399,936; Dec. 13.
- Denne, Mark T., Rushden, England. Wire-feed mechanism of screwing-machines. No. 1,380,538; June 7; v. 287; p. 41.
- Denne, Mark T., Rushden, England. Work-feed mechanism of sewing-machines. No. 1,380,888; June 7; v. 287; p. 108.
- Dennedy, James H., assignor to Kelvinator Corporation, Detroit, Mich. Compressor for refrigerating apparatus. No. 1,366,879; Jan. 25; v. 282; p. 679.
- Denneen, Francis S., Cleveland, Ohio. Manufacturing shells. No. 1,387,924; Aug. 16; v. 289; p. 513.
- Denney, Charles A., Portland, Ind. Pallet. No. 1,395,483; Nov. 1.
- Dennin, Edward A., Troy, N. Y. Brush. No. 1,375,681; Apr. 26; v. 285; p. 580.
- Denning, Ansel C., Johnson City, N. Y. Felted material and making same. No. 1,377,007; May 3; v. 286; p. 120.
- Denning, Ansel C., Johnson City, N. Y. Substitute material for making box-toes for shoes. (Reissue.) No. 15,235; Nov. 29.
- Denning, Ansel C., Johnson City, N. Y. Cutting-block. No. 1,399,937; Dec. 13.
- Denning, Patrick F., Cleveland, Ohio. Automobile robe-rail. No. 1,394,287; Oct. 18.
- Dennis, Adolphus S., Oakland, Calif. Calculating-machine. No. 1,383,607; July 5; v. 288; p. 72.
- Dennis, Adolphus S., San Francisco, Calif., assignor to Merchant Calculating Machine Company. Transfer mechanism for calculating machines. No. 1,364,618; Jan. 4; v. 282; p. 110.
- Dennis, Alfred A., Grand Rapids, Mich. Vehicle-signal. No. 1,364,485; Jan. 4; v. 282; p. 85.
- Dennis, Alfred A., Grand Rapids, Mich. Tire-valve. No. 1,365,820; Jan. 18; v. 282; p. 427.
- Dennis, Alfred A., Grand Rapids, Mich. Phonograph sound-box. No. 1,393,434; Oct. 11.
- Dennis, Arthur C., Seattle, Wash. Material-loading machine. No. 1,398,365; Nov. 29.
- Dennis, Basil W., Detroit, Mich. Window-ventilating stop. No. 1,395,910; Nov. 1.
- Dennis, Clark M., Philadelphia, Pa., assignor to The Barrett Company. Cleansing material. No. 1,365,464; Jan. 11; v. 282; p. 317.
- Dennis, John T., Detroit, Mich. Mica-light frame. No. 1,367,770; Feb. 8; v. 283; p. 233.
- Dennis, Leonard J. (See Abraham, M., and Dennis.)
- Dennis, Lewis T., *et al.* (See Harsen, William N., assignor.)
- Dennis, Little D., Philadelphia, Pa. Chair attachment. No. 1,375,573; Apr. 19; v. 285; p. 526.
- Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Trench-guide-relistig plow. No. 1,366,561; Jan. 25; v. 282; p. 616.
- Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Lister-plow. No. 1,373,413; Apr. 5; v. 285; p. 6.
- Dennis, Samuel K., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Cultivator. No. 1,382,764; June 28; v. 287; p. 628.
- Dennis, Samuel K., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Straddle-row cultivator. No. 1,388,934; Aug. 30; v. 289; p. 824.
- Dennis, Samuel K., Chicago, Ill., assignor to International Harvester Company. Cultivator. No. 1,397,945; Nov. 22.
- Dennis, Thomas L., assignor to G. F. Parker, New York, N. Y. Curling-iron. No. 1,388,805; Aug. 23; v. 289; p. 744.
- Dennis, Walter L. (See Ruebsamen, A., and Dennis.)
- Denniss, William J., Chicago, Ill. Squeegee. No. 1,375,682; Apr. 26; v. 285; p. 580.
- Dennison Manufacturing Company. (See Mix, Wellington S., assignor.)
- Denniss, George L. T., London, England. Revolving chess-board and the like. No. 1,374,139; Apr. 5; v. 285; p. 147.
- Denniston, Albert H., Fergus Falls, Minn. Concrete-wall form. No. 1,399,751; Dec. 13.
- Denny, Columbus F., Wilson, N. C. Reel for eyeglass-chains. No. 1,376,262; Apr. 26; v. 285; p. 690.
- Denny, Henry W., Evanston, Ill. Composition of matter and making same. No. 1,388,174; Aug. 23; v. 289; p. 618.
- Deno, Fred J., and J. Martin, Fowler, Ind. Hog-chute. No. 1,383,080; June 28; v. 287; p. 688.
- De Normanville, Edgar J., London, England. Variable velocity-ratio gearing. No. 1,383,988; July 5; v. 288; p. 151.
- De Normanville, Samuel A., London, England. Visual weather-screen. No. 1,379,750; May 31; v. 286; p. 898.
- Denson, Heard D., assignor to M. C. Weaver, Miami, Fla. Dirigible headlight. No. 1,387,478; Aug. 16; v. 289; p. 424.
- Dentists' Supply Company. (See Dalbey, William C., assignor.)
- Dentists' Supply Company, The. (See House, Milus M., assignor.)
- Dentists' Supply Company. (See Wavrin, John A., assignor.)
- Dentists' Supply Company, The. (See Williams, James L., assignor.)
- Denton, George W., South Bend, Ind. Journal-bearing. No. 1,381,811; June 14; v. 287; p. 334.
- Denton, Dr., Sleeping Garment Mills. (See Herron, W. S., and Thomas, assignors.)
- Denton, William L., Southwick, England. Combined brush and polishing-pad. No. 1,369,404; Feb. 22; v. 283; p. 636.
- Denver Fire Clay Company, The. (See Lindsay, George W., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Clark, Omar E., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Nell, Gustave M., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Oldham, E. L., and Barra, assignors.)
- Denver Rock Drill Manufacturing Company, The. (See Oldham, Edward L., assignor.)
- Denver Rock Drill Manufacturing Company, The. (See Smith, William A., assignor.)
- Denzel, William, *et al.* (See Raymond, Le Roy, assignor.)
- De Olaneta, Harold, assignor to The Winchester Repeating Arms Company, New Haven, Conn. Making paper centering-cups or the like. No. 1,385,431; July 26; v. 288; p. 655.



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- De Olaneta, Harold, assignor to Winchester Repeating Arms Company, New Haven, Conn. Dry cell. No. 1,388,990; Aug. 30; v. 289; p. 835.
- De Olaneta, Harold, assignor to Winchester Repeating Arms Company, New Haven, Conn. Dry cell. No. 1,398,366; Nov. 29.
- De Paoli, Bruno O. A., Palisade, N. J. Terrazzo flooring. No. 1,397,678; Nov. 22.
- Depew, Paul C., Chicago, Ill. Spark-plug. No. 1,377,407; May 10; v. 286; p. 253.
- De Procoudine-Gorsky, Serge, Granstad, Konnerud, near Drammen, Norway. Apparatus for the treatment of photographic negatives or the like with liquids. No. 1,373,311; Mar. 29; v. 284; p. 892.
- De Procoudine-Gorsky, Serge, Grandstad, Konnerud, near Drammen, Norway. Photographic camera for taking up part-negatives for naturally-colored pictures. No. 1,375,175; Apr. 19; v. 285; p. 451.
- Depue, Harold T., Kensington, Md. Key-coupler for organs. No. 1,376,682; May 3; v. 286; p. 56.
- Dequer, John H., Kansas City, Mo. Thermomagnetic therapeutic appliance. No. 1,391,762; Sept. 27; v. 290; p. 671.
- Deragon, Ernest J., Worcester, Mass. Clothes-hanger. No. 1,366,526; Jan. 25; v. 282; p. 608.
- De Raignau, Adrien F., Montreal, Quebec, Canada. Electric water-heater. No. 1,386,607; Aug. 9; v. 289; p. 198.
- De Ram, Georges, Paris, France. Photographic apparatus. No. 1,382,486; June 21; v. 287; p. 522.
- Derby, Charles D. (See Ripsch, C. W., Dawley, and Derby.)
- Derby, Charles D., assignor to The Joyce-Cridland Company, Dayton, Ohio. Operating mechanism for lifting-jacks. No. 1,372,868; Mar. 29; v. 284; p. 804.
- Derby, John H., New York, N. Y. Pressure-reducing valve. No. 1,379,904; May 31; v. 286; p. 926.
- Derby, P., & Company. (See Bancroft, Frank H., assignor.)
- Derby, Samuel E., assignor to Schutte & Koerting Company, Philadelphia, Pa. Valve structure. No. 1,400,424; Dec. 13.
- Derby Textile Co., The. (See Gager, Edwin B., Jr., assignor.)
- Derbyshire, Philo O., Chicago, Ill., assignor to The Delaware Chair Company, Delaware, Ohio. Combined school desk and chair. No. 1,385,432; July 26; v. 288; p. 655.
- De Reamer, Frank C., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,393,509; Oct. 11.
- De Reamer, Frank C., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,394,976; Oct. 25.
- De Remer, Jay G., Washington, D. C. Refrigerating apparatus. No. 1,373,174; Mar. 29; v. 284; p. 865.
- De Remer, Jay G., San Francisco, Calif. Compressor. No. 1,373,175; Mar. 29; v. 284; p. 865.
- Deri, Bruno, New York, N. Y. Swimming appliance. No. 1,398,130; Nov. 22.
- Dericco, Oscar A., San Francisco, Calif. Automobile windshield wiper. No. 1,400,665; Dec. 20.
- Derichsweller, Walram, Zurich, assignor, by mesne assignments, to Fabrique d'Horlogerie Recta, S. A., Biel, Switzerland. Photographic exposure-meter. No. 1,377,564; May 10; v. 286; p. 282.
- Derrick, Clarence G., W. M. Ralph, and L. H. Flett, Buffalo, assignors to National Aniline & Chemical Co., Inc., New York, N. Y. Production of m-nitro-p-cresol. No. 1,394,150; Oct. 18.
- Derkson, Jacob F., Chinook, Mont. Disk harrow. No. 1,368,706 Feb. 15; v. 283; p. 462.
- Dermatological Research Laboratories. (See Schamberg, J. E. Raiziss, and Kolmer, assignors.)
- Derneden, Felix, Charleroi, Belgium. Rotary furnace. No. 1,372,406; Mar. 22; v. 284; p. 673.
- Dernell Potato Products Co. (See Dernell, William, assignor.)
- Dernell, William, assignor to Dernell Potato Products Co., Chicago, Ill. Apparatus for dipping vegetables. No. 1,394,612; Oct. 25.
- De Roo, Cornelius P., Flint, Mich. Moisture-tester. No. 1,399,696; Dec. 6.
- De Rooij, Antonius L., Watergraafsmeer, Netherlands. Transfer process. No. 1,396,409; Nov. 8.
- De Ros, Dudley, Greenhithe, England. Production of tin oxide and zinc oxide. No. 1,372,407; Mar. 22; v. 284; p. 673.
- De Rosa, Ralph J. (See Koenig, William J., assignor.)
- Derowitsch, Fred. (See Reynolds, J. W., and Derowitsch.)
- Derr, Charles E., Detroit, Mich., assignor, by mesne assignments, to J. E. Gleason, trustee, Rochester, N. Y. Gear-cutting machine. No. 1,372,340; Mar. 22; v. 284; p. 660.
- Derr, Charles E., assignor to Packard Motor Car Company, Detroit, Mich. Machine for cutting teeth. No. 1,374,064; Apr. 5; v. 285; p. 133.
- Derrick, Horace M., Malheur, Oreg. Plow. No. 1,396,816; Nov. 15.
- Derringer, Maurice H., Philadelphia, Pa. Tool-holder. No. 1,381,457; June 14; v. 287; p. 267.
- Darrow, Philip, Chicago, Ill. Automobile-support. No. 1,384,798; July 19; v. 288; p. 450.
- Deruiseaux, Dolphis, and F. S. Capron, Taunton, Mass. Auto traction-chain. No. 1,398,009; Nov. 22.
- Derungs, Alphonse, assignor to Societe Anonyme Ateliers Otis-Pifre, Paris, France. Rope conveyer. No. 1,397,368; Nov. 15.
- De Sanno & Hoskins. (See Bixler, William H. H., assignor.)
- De Saussure, Frank M., Jr., Greenville, S. C. Ladder. No. 1,383,341; July 5; v. 288; p. 17.
- De Saussure, Frank M., Jr., Greenville, S. C. Ladder. No. 1,401,526; Dec. 27.
- De Saussure, William P., Jr., Englewood Cliffs, N. J. Card-positioning attachment for typewriters. No. 1,376,683; May 3; v. 286; p. 56.
- De Save, Arthur E., Mobile, Ala. Oil-tank. No. 1,393,719; Oct. 11.
- Descalles, Eugene M. O., Paris, France, assignor to D. O. T. Societe Anonyme pour l'Exploitation des brevets Descalles, Liege, Belgium. Permutation-lock. No. 1,393,269; Oct. 11.
- Deschamps, Joseph, Chesterfield, Va. Skid for motor-vehicles. No. 1,400,478; Dec. 13.
- De Schepper, Victor, New York, N. Y. Window-refrigerator. No. 1,379,879; May 31; v. 286; p. 922.
- Des Enfants, Ernest C., and F. A. Hummel, Chicago, Ill. Rotary internal-combustion engine. No. 1,364,256; Jan. 4; v. 282; p. 41.
- De Silva, Dwight M., Washington, D. C. Burner for gaseous fuel. No. 1,379,538; May 24; v. 286; p. 785.
- De Simone, Michele G., Staten Island, assignor to V. Lambert, Brooklyn, N. Y. Coring-machine. No. 1,382,632; June 28; v. 287; p. 603.
- De Simone, Ross, Hilton, N. Y. Pneumatic railway-gate. No. 1,388,101; Aug. 16; v. 289; p. 547.
- Des Jardins, Benjamin M., West Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Computing-machine. No. 1,369,791; Mar. 1; v. 284; p. 7.
- Des Jardins, Clarence B., assignor to Industrial Research Corporation, Toledo, Ohio. Liquid-feeding device. No. 1,364,486; Jan. 4; v. 282; p. 86.
- Desmarais, Oscar H., Hackensack, N. J., assignor of one-fourth to H. W. Youngling, New York, N. Y. Flatiron. No. 1,364,868; Jan. 11; v. 282; p. 202.
- Desmarteau, Joseph A., Montreal, Quebec, Canada. Tap-washer. No. 1,370,521; Mar. 8; v. 284; p. 190.
- Des Moineaux, Alfred V., Denver, Colo. Milk-bottle carrier. No. 1,375,783; Apr. 26; v. 285; p. 598.
- Desmond, John E., Detroit, Mich. Atomizing-nozzle. No. 1,377,756; May 10; v. 286; p. 319.
- Desmond, Joseph J., Corry, Pa. Penholder-support. No. 1,388,175; Aug. 23; v. 289; p. 618.
- Desobry, Charles W., Indianapolis, Ind. Apparatus for heating and cooling liquids. No. 1,373,953; Apr. 5; v. 285; p. 112.
- Despard, Victor R., Hinsdale, Ill., assignor, by mesne assignments, to McGill Manufacturing Company, Valparaiso, Ind. Locking means for shells. No. 1,369,167; Feb. 22; v. 283; p. 590.
- Despard, Victor R., Hinsdale, Ill., assignor, by mesne assignments, to McGill Manufacturing Company, Valparaiso, Ind. Locking means for shells. No. 1,369,168; Feb. 22; v. 283; p. 590.
- Desrochers, George H., Lowell, Mass. Plaster-of-Paris cutter. No. 1,368,244; Feb. 15; v. 283; p. 371.
- Dessart, Franklin M., Brooklyn, N. Y. Mask. No. 1,391,617; Sept. 20; v. 290; p. 569.
- Dessauer, Friedrich, Frankfurt-on-the-Main, Germany. Electrical transformer system. No. 1,372,653; Mar. 22; v. 284; p. 719.
- De Stoutz, Robert. (See Juvet, R., and de Stoutz.)
- De Stubner, Emile, New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Composition for sound-records. No. 1,379,729; May 31; v. 286; p. 894.
- Detachable Plow Share Edge Manufacturing Company. (See Nordquist, Peter A., assignor.)
- De Tamble, Edward S., Chicago, Ill., assignor to Racine Accessories Manufacturing Co., Racine, Wis. Pedal-cap. No. 1,388,935; Aug. 30; v. 289; p. 824.
- Detancourt, Leopoldo S., Habana, Cuba. Cleansing device for water-tube boilers. No. 1,369,774; Mar. 1; v. 284; p. 4.
- De Tartas, Augustus R. (See Mladinich, F., and de Tartas.)
- De Tartas, Augustus R., Rockville Center, and F. Mladinich, New York, N. Y. Motion-picture camera. No. 1,377,322; May 10; v. 286; p. 237.
- Determann, August P., Lyons, Iowa. Pneumatic-stacker hood. No. 1,394,812; Oct. 25.
- Detloff, John C., Saginaw, Mich. Combined tie and rail-fastener. No. 1,372,610; Mar. 22; v. 284; p. 711.
- Det Norske Aktieselskab for Elektrokemisk Industri. (See Ravner, Oystein, assignor.)
- Det Norske Aktieselskab for Elektrokemisk Industri. (See Sem, Mathias O., assignor.)
- Det Norske Aktieselskab for Elektrokemisk Industri, Norsk Industri-Hypotekbank. (See Goldschmidt, Victor M., assignor.)
- De Tolna, Rudolf F., New York, N. Y. Charting apparatus for ships. No. 1,389,295; Aug. 30; v. 289; p. 896.
- Detroit Accessories Corporation. (See Strickland, Silas A., assignor.)
- Detroit Automatic Scale Company. (See Riedel, Charles E., assignor.)



*Alphabetical list of patentees—Continued.*

- Detroit Battery Company. (See Bundy, Glenn J., assignor.)
- Detroit Cadillac Motor Car Company. (See Mertens, Eugene R., assignor.)
- Detroit Carrier & Manufacturing Company. (See Taylor, Huston, assignor.)
- Detroit Fuse & Manufacturing Company. (See Horton, B. D., Ball, and Zenker, assignors.)
- Detroit Lubricator Company. (See Kirby, Charles H., assignor.)
- Detroit Mechanical Engineering Company. (See Murnane, D. J., and Lavigne, assignors.)
- Detroit Pneumatic Chuck Company. (See Buhr, Joseph F., assignor.)
- Detroit Pressed Steel Company. (See Flintermann, Gerhard, G. C., assignor.)
- Detroit Pressed Steel Company. (See Putnam, Alden L., assignor.)
- Detroit Stove Works. (See Mersfelder, William L., assignor.)
- Detroit Tire Carrier Co. (See Wasserfallen, Charles F., assignor.)
- Detroit Twist Drill Company. (See Wineman, Charles P., assignor.)
- Det Tekniske Forsogsaktieselskab. (See Goldschmidt, Rudolf, assignor.)
- Dettinger, Martin L., J. A. Wesper, and C. Shewell, Philadelphia, Pa. Exercising apparatus. No. 1,390,095; Sept. 6; v. 290; p. 109.
- Detwiler, Frank J., and M. H. Burkholder, Parkersburg, W. Va. Picture-projector. No. 1,373,491; Apr. 5; v. 285; p. 22.
- Deuchler, John C., Tiffin, Ohio. Nut-lock. No. 1,382,959; June 28; v. 287; p. 666.
- Deuel, Harry A. (See Van Fossen, Isaiah C., assignor.)
- Denel, Pliny W., Chicago, Ill. Traction device. No. 1,391,721; Sept. 27; v. 290; p. 664.
- De Urrela, Francisco, Madrid, Spain. Means for absorbing the reactions of the suspension in motor-cars and engines of all kinds. No. 1,381,621; June 14; v. 287; p. 297.
- Deutsch, Adolph M. (See Choquet, Arthur J., assignor.)
- Deutsch, Frank, Cudahy, Wis. Scrubbing-brush clamp-handle. No. 1,376,862; May 3; v. 286; p. 92.
- Deutschein, Harry J. (See Brown, L. L., and Deutschein.)
- Deutsche Kraftspflug-Gesellschaft M. B. H. (See Wendeler, Ernst, assignor.)
- Deutsche Lichtbild-Gesellschaft. (See Schulze, Arthur, assignor.)
- Deutsche Lichtbild-Gesellschaft E. V. (See Schulze, Arthur, assignor.)
- Deutsche Werke Aktiengesellschaft. (See Bräuning, Wilhelm, assignor.)
- De Vane, William G., Trilby, Fla. Grip-shoe for vehicle-tires. No. 1,397,406; Nov. 15.
- De Vaughn, Jerrold P., Buffalo, N. Y. Envelop. No. 1,385,248; July 19; v. 288; p. 542.
- De Ved, George C. (See De Ved, Smith B. and G. C.)
- De Ved, Smith B. and G. C., Baltimore, Md. Core-box. No. 1,387,531; Aug. 16; v. 289; p. 435.
- Devencenzi, Tony, San Francisco, Calif. Truck extension. No. 1,366,771; Jan. 25; v. 282; p. 658.
- Devney, Raymond S., Owensboro, Ky. Motor for churns and the like. No. 1,369,888; Mar. 1; v. 284; p. 25.
- Devenish, Christopher, Bossburg, Wash. Miner's drill-holder. No. 1,385,523; July 26; v. 288; p. 674.
- Deyer, Christy J., Clinton, Okla. Pump-jack. No. 1,387,364; Aug. 9; v. 289; p. 350.
- Devereaux, Francis A. (See Hall, C. G., Devereaux, and Cobey.)
- Devereaux, William C., Detroit, Mich. Door-handle. No. 1,367,539; Feb. 8; v. 283; p. 189.
- Devereux, Robert C. (See Thornton, Alexander F., assignor.)
- Deveson, William E. (See Manz, Jakob, assignor.)
- De Veulle, Frederick H., Birmingham, England. Carbureter for internal-combustion engines. No. 1,365,158; Jan. 11; v. 282; p. 258.
- Devienne, Fernand, Paris, France. Apparatus for the rapid application of cupping-glasses, suction-cups, &c. No. 1,397,038; Nov. 15.
- De Vigan, André F., Detroit, Mich. Headlight attachment. No. 1,389,243; Aug. 30; v. 289; p. 885.
- De Vilbiss Endless Film Machine Company. (See McCullough, Paul J., assignor.)
- De Vilbiss Manufacturing Company, The. (See De Vilbiss, Thomas A., assignor.)
- De Vilbiss, Thomas A., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Nasal guard. No. 1,369,631; Feb. 22; v. 283; p. 680.
- Devine, William P., Boston, Mass. Spectacles. No. 1,371,413; Mar. 15; v. 284; p. 425.
- De Vito, John A., West Medford, Mass. Cleaning device. No. 1,382,633; June 28; v. 287; p. 603.
- De Vito, Joseph M., Torrance, assignor of two-fifths to W. L. Groves, Los Angeles, Calif. Creel-frame. No. 1,386,556; Aug. 2; v. 289; p. 115.
- Devlin, Francis D., assignor to National Folding Box Company, New Haven, Conn. Counter display folding box. No. 1,379,395; May 24; v. 286; p. 758.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Needle-thread-controlling mechanism for sewing-machines. No. 1,366,364; Jan. 25; v. 282; p. 575.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Feeding mechanism for sewing-machines. No. 1,368,245; Feb. 15; v. 283; p. 371.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Thread-tension support. No. 1,368,246; Feb. 15; v. 283; p. 372.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,369,405; Feb. 22; v. 283; p. 636.
- De Voe, Albert H., assignor to The Singer Manufacturing Company, Westfield, N. J. Attachment for sewing-machines. No. 1,369,406; Feb. 22; v. 283; p. 636.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Shaft-hanger. No. 1,378,402; May 17; v. 286; p. 495.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Fabric cutting and stitching machine. No. 1,384,519; July 12; v. 288; p. 311.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Feed-off-the-arm sewing-machine. No. 1,384,829; July 19; v. 288; p. 456.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Tubular-arm sewing-machine. No. 1,385,364; July 26; v. 288; p. 641.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Looper mechanism for sewing-machines. No. 1,386,322; Aug. 2; v. 289; p. 72.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Needle-bar-operating mechanism. No. 1,386,323; Aug. 2; v. 289; p. 72.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Universal joint-coupling. No. 1,387,043; Aug. 9; v. 289; p. 287.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Trimming mechanism for sewing-machines. No. 1,388,411; Aug. 23; v. 289; p. 667.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Clutch mechanism. No. 1,388,412; Aug. 23; v. 289; p. 667.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Adjustable binder. No. 1,390,195; Sept. 6; v. 290; p. 128.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Bearing and oiling means therefor. No. 1,392,306; Oct. 4.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Power-transmitter. No. 1,397,088; Nov. 15.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Strip-folder for sewing-machines. No. 1,400,530; Dec. 20.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Thread-severing mechanism for sewing-machines. No. 1,401,465; Dec. 27.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Needle-clamp. No. 1,401,466; Dec. 27.
- Devoe, Robert W., *et al.* (See Cave, Daniel B., assignor.)
- De Voe, William E. (See Blackburn, A. H., and De Voe.)
- De Voe, William E., Chicago Heights, assignor to The Under-Feed Stoker Company of America, Chicago, Ill. Underfeed stoker. No. 1,385,433; July 26; v. 288; p. 656.
- De Voe, William E., assignor to The Underfeed Stoker Company of America, Detroit, Mich. Underfeed furnace. No. 1,401,888; Dec. 27.
- De Vriendt, Louis. (See De Vriendt, Leon and L.)
- De Vriendt, Leon, and L. De Vriendt, Blankenberghe, Belgium. Liquid-level gage. No. 1,378,768; May 17; v. 286; p. 566.
- Devrin, Arthur, Jemeppe-Liège, Belgium. Crossbar for tramway-tracks. No. 1,399,050; Dec. 6.
- De Vry Corporation, The. (See De Vry, Herman A., assignor.)
- De Vry, Herman A., assignor to The De Vry Corporation, Chicago, Ill. Motion-picture machine. No. 1,382,277; June 21; v. 287; p. 481.
- De Vry, Herman A., assignor to The De Vry Corporation, Chicago, Ill. Stereopticon. No. 1,395,398; Nov. 1.
- Dewar, James, Los Angeles, Calif. Auto direction-signal. No. 1,380,546; June 7; v. 287; p. 42.
- Dewberry, Everett R. (See Ricks, W. S., and Dewberry.)
- Deweese, James R., Bancroft, W. Va. Beehive. No. 1,382,068; June 21; v. 287; p. 442.
- Dewey, Haywood G. (See Knapp, F. H., and Dewey.)
- Dewey, Haywood G., and F. H. Knapp, assignors to Fred H. Knapp Company, Westminster, Md. Labeling-machine. No. 1,398,421; Nov. 29.
- Dewey, Josiah A., assignor by mesne assignments, to Murphy Door Bed Company, San Francisco, Calif. Sofa-bed. No. 1,379,805; May 31; v. 286; p. 908.
- Dewey, Will E., Rockford, Ill. Carbureter. No. 1,384,799; July 19; v. 288; p. 450.



- De Woern, Bror A., Lysekil, Sweden. Method of and means for distilling water. No. 1,379,502; May 24; v. 286; p. 777.
- Dexter, Allen T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Cast-steel chain. No. 1,365,770; Jan. 18; v. 282; p. 416.
- Dexter, Allen T., assignor to The National Malleable Castings Company, Cleveland, Ohio. Manufacture of cast-steel chain. No. 1,365,771; Jan. 18; v. 282; p. 417.
- Dexter, Allen T., assignor to Malleable Castings Company, Cleveland, Ohio. Manufacture of cast-steel chain links. No. 1,365,772; Jan. 18; v. 282; p. 417.
- Dexter Company, The. (See George, William H., assignor.)
- Dexter Folder Company. (See Breen, Thomas E., assignor.)
- Dexter Folder Company. (See Christophal, Carl E., assignor.)
- Dexter, I. H., Co. (See Dexter, Irven H., assignor.)
- Dexter, Irven H., Pearl River, assignor to I. H. Dexter Co., Inc., New York, N. Y. Flexible coupling. No. 1,387,532; Aug. 16; v. 289; p. 435.
- Dey, Donald M., Syracuse, N. Y. Autographic camera. No. 1,368,614; Feb. 15; v. 283; p. 444.
- Dey, Harry E., Jersey City, N. J. Control for electric motors. No. 1,383,081; June 28; v. 287; p. 688.
- Dezendorf, Richard L., Richmond Hill, N. Y. Means for clearing service-pipes or ejecting liquids. No. 1,388,854; Aug. 30; v. 289; p. 808.
- Dezendorf, Richard L., Richmond Hill, N. Y. Means for and method of testing gas-meters. No. 1,396,817; Nov. 15.
- De Zeng, Henry L., Moorestown, N. J. Diagnostic instrument. No. 1,395,264; Nov. 1.
- D'Humy, Fernand E., Englewood, N. J., assignor to Ramp Buildings Corporation, New York, N. Y. Storage-building. No. 1,379,970; May 31; v. 286; p. 940.
- Diack, Alexander S., Detroit, Mich. Mixing-bowl. No. 1,394,540; Oct. 25.
- Diadul, Richard A., Jr., Chicago, Ill. Orthopedic appliance. No. 1,381,290; June 14; v. 287; p. 236.
- Dial, Frank, Washington, D. C. Shoe construction. No. 1,400,143; Dec. 13.
- Dial, James B. F., *et al.* (See Cook, George R., assignor.)
- Diamond, Adolph, Boston, Mass. Collar-attaching device. No. 1,368,615; Feb. 15; v. 283; p. 444.
- Diamond Electric Specialties Corp. (See Rosenfeld, Francis M., assignor.)
- Diamond Electric Specialties Corp. (See Shaw, L. E., and Rosenfeld, assignors.)
- Diamond Expansion Bolt Company. (See Goewey, James E., assignor.)
- Diamond Expansion Bolt Company. (See Hiss, William J., assignor.)
- Diamond, Harry I., Atlanta, Ga. Electrically-insulating tape. No. 1,368,025; Feb. 8; v. 283; p. 281.
- Diamond, Hymen A. (See Fagen, Abraham A., assignor.)
- Diamond, Louis, New York, N. Y. Wardrobe-trunk. No. 1,399,752; Dec. 13.
- Diamond Match Company, The. (See Donnelly, Joseph C., assignor.)
- Diamond Match Company, The. (See Elder, W. J., and Morehouse, assignors.)
- Diamond Match Company, The. (See Fairburn, William A., assignor.)
- Diamond Match Company, The. (See Linebaugh, Edward R., assignor.)
- Diamond Match Company, The. (See Rudd, Henry A., assignor.)
- Diamond Match Company, The. (See Schumacher, Henry C., assignor.)
- Diamond Match Company, The. (See Wright, Jacob P., assignor.)
- Diamond Match Company, The. (See Wright, Jacob P. and C. F., assignors.)
- Diamond, Morris, Caldwell, N. J. Handbag. No. 1,397,569; Nov. 15.
- Diamond, Ralph W. (See Thom, C., Diamond, and Blaylock.)
- Diamond Toy Corporation, The. (See Newell, Peter S. H., assignor.)
- Diana, Alexander, San Francisco, Calif. Wheel-protector. No. 1,374,065; Apr. 5; v. 285; p. 133.
- Dibert, Lloyd N., San Francisco, Calif. Grain-bearder. No. 1,384,071; July 19; v. 288; p. 507.
- Dibert, Louis D., and R. C. Winter, Philadelphia, Pa. Transposing device for pneumatic musical instruments. No. 1,394,541; Oct. 25.
- Di Carlo, Donato, Philadelphia, Pa. Needle-changing device for talking-machines. No. 1,364,428; Jan. 4; v. 282; p. 74.
- Dice, Charles W., Danville, Ill. Traveling kit. No. 1,371,148; Mar. 8; v. 284; p. 310.
- Dice, John L. (See Doyle, S. T., and Dice.)
- Dice, Robert E., Indianapolis, Ind. Folding stand. No. 1,392,486; Oct. 4.
- Dick, A. B., Company. (See Brasseur, Ernest J., assignor.)
- Dick, A. B., Company. (See Chipperfield, Walter, assignor.)
- Dick, A. B., Company. (See Hill, Edward W., assignor.)
- Dick, George, *et al.* (See Mattivi, Vigilio, assignor.)
- Dick, Harvey H., Lincoln, Ill. Boiler-cleaner. No. 1,392,307; Oct. 4.
- Dick, Joseph Manufacturing Company, The. (See Dick, Joseph, assignor.)
- Dick, Joseph, assignor to The Joseph Dick Manufacturing Company, Canton, Ohio. Knife-grinding machine. No. 1,390,098; Sept. 6; v. 290; p. 109.
- Dick, Samuel M., assignor to International Dry Milk Company, Minneapolis, Minn. Dehydrated milk and producing the same. No. 1,374,555; Apr. 12; v. 285; p. 269.
- Dicken, Isham S., St. Louis, Mo. Advertising device. No. 1,371,076; Mar. 8; v. 284; p. 296.
- Dicken, Isham S., assignor of one-half to W. T. Miles, St. Louis, Mo. Hinge. No. 1,392,049; Sept. 27; v. 290; p. 730.
- Dickens, Benjamin F., Vancouver, British Columbia, Canada. Window-wedge. No. 1,397,859; Nov. 22.
- Dickens, James C. (See Thomas, W. C., Dickens, and Fowler.)
- Dickerson, F. G., Company, The. (See Dickerson, Fred G., assignor.)
- Dickerson, Fred G., Chicago, Ill., assignor to The F. G. Dickerson Company, Portland, Me. Can-filling machine. No. 1,365,773; Jan. 18; v. 282; p. 417.
- Dickerson, Fred G., Chicago, Ill., assignor to The F. G. Dickerson Company, Portland, Me. Can-tipping machine. No. 1,365,774; Jan. 18; v. 282; p. 417.
- Dickerson, George W., assignor to The North Electric Manufacturing Company, Galion, Ohio. Telephone-switch. No. 1,374,366; Apr. 12; v. 285; p. 232.
- Dickerson, Harry P., Salem, Ohio. Heel-removing device. No. 1,371,474; Mar. 15; v. 284; p. 437.
- Dickerson, Horace P., assignor of one-half to F. D. Fisk, Memphis, Tenn. Sheet-paper dispenser. No. 1,377,565; May 10; v. 286; p. 282.
- Dickerson, Valentine, Stapleton, N. Y. Game. No. 1,373,312; Mar. 29; v. 284; p. 892.
- Dickerson, Walter H., New York, N. Y. Recovering the solids of waste pulp liquors. No. 1,396,028; Nov. 8.
- Dickerson, Walter H., Muskegon, Mich., assignor, by mesne assignments, to E. J. Koehler. Treating waste sulfite liquor and compound obtained therefrom. No. 1,394,151; Oct. 18.
- Dickerson, Walter H., Muskegon, Mich., assignor, by mesne assignments, to E. J. Koehler, New York, N. Y. Treating waste sulfite liquors and product obtained therefrom. No. 1,397,039; Nov. 15.
- Dickey, Daniel A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Self-tightening propeller-hub. No. 1,400,032; Dec. 13.
- Dickey, Daniel A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Propeller. No. 1,400,033; Dec. 13.
- Dickey, Edward P., Harvey, Ill. Wheel. No. 1,394,477; Oct. 18.
- Dickey, Ernest, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Portable power unit. No. 1,383,391; July 5; v. 288; p. 28.
- Dickie, Brockway, assignor to The Union Steel Products Company, Ltd., Albion, Mich. Canning-rack. No. 1,379,000; May 24; v. 286; p. 682.
- Dickie, Thomas F., Walkerville, Ontario, Canada. Lock. No. 1,364,733; Jan. 4; v. 282; p. 132.
- Dickinson, Boyd T., Billings, Mont. Felling implement. No. 1,388,633; Aug. 23; v. 289; p. 710.
- Dickinson, Clarence W., assignor to The Youngstown Pressed Steel Company, Youngstown, Ohio. Expanded-metal bath. No. 1,372,741; Mar. 29; v. 284; p. 778.
- Dickinson, Cloyd C., Chicago, Ill. Sharpener for cutting instruments. No. 1,391,763; Sept. 27; v. 290; p. 671.
- Dickinson, Dwight M., Atlanta, Ga. Check. No. 1,383,792; July 5; v. 288; p. 111.
- Dickinson, Fredrick S., New York, N. Y., and J. Springer, Bradley Beach, N. J., assignors to said Dickinson. Constructing pneumatic tires. No. 1,394,069; Oct. 18.
- Dickinson, Herbert, Norwood, and G. A. W. Hepburn, Maida Hill, England. Stereoscopic projecting apparatus. No. 1,383,538; July 5; v. 288; p. 57.
- Dickinson, J. Q. (See Dickinson, Lewis, assignor.)
- Dickinson, Joseph H., Montclair, N. J., assignor to Lidgerwood Manufacturing Company, New York, N. Y. Sheave-block. No. 1,363,390; Feb. 15; v. 283; p. 400.
- Dickinson, Joseph H., Cranford, and L. G. Collier, Upper Montclair, N. J., assignors to The Aeolian Company. Rewind device for phonographs. No. 1,395,802; Nov. 1.
- Dickinson, Lewis, assignor of one-half to J. Q. Dickinson, Jacksonville, Fla. Hammer. No. 1,383,452; July 5; v. 288; p. 41.
- Dickinson, Thomas A., Youngstown, Ohio. Metering device. No. 1,396,560; Nov. 8.
- Dickinson, Tom, Accrington, England. Carpet-sweeper. No. 1,390,099; Sept. 6; v. 290; p. 109.
- Dickinson, William, Detroit, Mich. Detachable inclosure for motor-vehicles. No. 1,400,271; Dec. 13.
- Dickinson, William M., San Francisco, Calif. Flexible conduit. No. 1,365,306; Jan. 11; v. 282; p. 287.
- Dickopf, Hubert T. A., Montclair, N. J. Photographic-spotting-brush moistener. No. 1,371,341; Mar. 22; v. 284; p. 660.
- Dickow, Fred C., Chicago, Ill. Index-center or the like. No. 1,383,698; July 5; v. 288; p. 92.
- Dicks, Henry, New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,374,639; Apr. 12; v. 285; p. 285.



*Alphabetical list of patentees—Continued.*

- Dicks Stamping Co. (See Dicks, William, assignor.)  
 Dicks, Thomas A., Wilkinsburg, and J. B. Luttrell, Pittsburgh, Pa. Propeller. No. 1,365,159; Jan. 11; v. 282; p. 259.  
 Dicks, Thomas A., assignor to Standard Steel Propeller Company, Pittsburgh, Pa. Propeller. No. 1,383,791; July 5; v. 288; p. 111.  
 Dicks, William, assignor to Dicks Stamping Co., Inc., Buffalo, N. Y. Holder for Christmas-trees and the like. No. 1,401,144; Dec. 27.  
 Dickson, H. H., *et al.* (See Taft, John A., assignor.)  
 Dickson, Harry N., Orlando, Fla. Typewriter attachment. No. 1,364,734; Jan. 4; v. 282; p. 132.  
 Dickson, Lawrence E., Strawn, Tex. Adjustable friction-grab for fishing-tools. No. 1,378,841; May 24; v. 286; p. 553.  
 Dickson and Mann Limited. (See Cunningham, James, assignor.)  
 Dickson, William P., Maplewood, N. J., assignor to Westinghouse Lamp Company. Apparatus for manufacturing incandescent-lamp parts. No. 1,368,552; Feb. 15; v. 283; p. 432.  
 Dictograph Products Corporation. (See Koch, Henry, assignor.)  
 Di Domenica, Antonio, Philadelphia, Pa. Machine for making macaroni. No. 1,378,662; May 17; v. 286; p. 546.  
 Diebold Safe & Lock Company, The. (See Scott, Alexander N., assignor.)  
 Dieckmann, Adolf, Cincinnati, Ohio. Sheet-metal joint and producing same. No. 1,368,490; Feb. 15; v. 283; p. 420.  
 Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Chicago, Ill. Fastening non-metallic elements to metal. No. 1,377,671; May 10; v. 286; p. 303.  
 Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Chicago, Ill. Vertical file. No. 1,385,524; July 26; v. 288; p. 675.  
 Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Chicago, Ill. Attachment for drawing-boards. No. 1,398,090; Nov. 22.  
 Dieckmann, John P., Oakfield, Wis. Bed. No. 1,372,219; Mar. 22; v. 284; p. 637.  
 Diedrich, Eugene J. (See Burstall, William H., assignor.)  
 Diederich, William C., Huron, S. D. Circuit-closer for burglar-alarms. No. 1,369,889; Mar. 1; v. 284; p. 26.  
 Dietsenburgh, William, assignor to one-half to F. Hedges, Montpelier, Ind. Locking device for motor-cars. No. 1,384,026; July 5; v. 288; p. 159.  
 Diegel, William, Manitowoc, Wis. Saw-filing machine. No. 1,379,252; May 24; v. 286; p. 730.  
 Dieges, Charles J., assignor to Dieges & Clust, New York, N. Y. Badge. No. 1,394,977; Oct. 25.  
 Dieges & Clust. (See Dieges, Charles J., assignor.)  
 Diehl, Ambrose N., Duquesne, and F. E. Leahy, McKeesport, Pa. Apparatus for burning gases. No. 1,392,921; Oct. 11.  
 Diehl, Frederick. (See Zabriskie, H. L., and Diehl.)  
 Diehl, Frederick, assignor to Diehl Manufacturing Co., Elizabeth, N. J. Rheostat. No. 1,369,407; Feb. 22; v. 283; p. 636.  
 Diehl, Frederick, assignor to Diehl Manufacturing Co., Elizabeth, N. J. Commutator and commutator-bar. No. 1,369,408; Feb. 22; v. 283; p. 637.  
 Diehl, Frederick, assignor to Diehl Manufacturing Company, Elizabeth, N. J. Winding-machine. No. 1,370,744; Mar. 8; v. 284; p. 233.  
 Diehl Manufacturing Co. (See Diehl, Frederick, assignor.)  
 Diehl Manufacturing Co. (See Marx, Gustave C., assignor.)  
 Diehl Manufacturing Co. (See Zabriskie, H. L., and Diehl, assignors.)  
 Diehl, Otto J., *et al.* (See Wrozina, Ignatius, assignor.)  
 Diehl, Walter J., St. Louis, Mo. Auxiliary seat. No. 1,397,089; Nov. 15.  
 Diehl, Joseph J., assignor to one-half to F. G. Neal, St. Louis, Mo. Reamer-chuck. No. 1,369,632; Feb. 22; v. 283; p. 681.  
 Diemand, Irma. (See Bollier, W., and Diemand.)  
 Diener, Frank A. (See Schylander, John F., assignor.)  
 Dienner, John A., assignor to W. J. Conlon, Chicago, Ill. Gearing for washing machines and the like. No. 1,387,365; Aug. 9; v. 289; p. 350.  
 Diephouse, Jacob W., Chicago, Ill. Vacuum-cleaner. No. 1,396,263; Nov. 8.  
 Diercks, Henry F., Algonquin, Ill. Stucco foundation for building walls. No. 1,370,095; Mar. 1; v. 284; p. 64.  
 Dierkes, Henry H., New York, N. Y. Curtain-support. No. 1,393,672; Oct. 11.  
 Dierking, August. (See Maley, J. A., and Dierking.)  
 Dierking, Leslie H., Elgin, Ill. Clasp. No. 1,388,241; Aug. 23; v. 289; p. 632.  
 Dierks, John, Shreveport, La. Stock-feeder. No. 1,365,385; Jan. 11; v. 282; p. 302.  
 Dierks, John, Sulphur Springs, Tex. Stock-feeder. No. 1,398,179; Nov. 22.  
 Dies, Charles A., Chicago, Ill. Hairpin. No. 1,377,408; May 10; v. 286; p. 253.  
 Dies, Charles A., assignor to J. V. Larson, Chicago, Ill. Wrench. No. 1,389,581; Sept. 6; v. 290; p. 4.  
 Diescher, August P., Pittsburgh, Pa. Mold-separating device. No. 1,383,608; July 5; v. 288; p. 73.  
 Dieteman, Charles J., Olean, N. Y. Clothes-boiler. No. 1,366,772; Jan. 25; v. 282; p. 658.  
 Dieter, Louis F., Buffalo, N. Y. Car-wheel or similar body. No. 1,377,617; May 10; v. 286; p. 292.  
 Dieter, Louis F., Buffalo, N. Y. Dish car-wheel or similar body. No. 1,377,618; May 10; v. 286; p. 292.  
 Dieter, William, Brooklyn, N. Y. Torpedo depth-gear. No. 1,369,169; Feb. 22; v. 283; p. 590.  
 Dieter, William, Brooklyn, N. Y. Pressure-reducing valve. No. 1,386,051; Aug. 2; v. 289; p. 18.  
 Diethelm, Kaspar I., New York, N. Y. Wire fabric. No. 1,385,434; July 26; v. 288; p. 656.  
 Dietrich, Edward, Henryville, Ind. Socket-wrench. No. 1,398,180; Nov. 22.  
 Dietrich, Jerome C., Galt, Ontario, Canada. Handsaw. No. 1,399,009; Dec. 6.  
 Dietrich, Raymond H., and T. L. Hibbard, New York, N. Y. Auxiliary automobile-seat. No. 1,369,633; Feb. 22; v. 283; p. 681.  
 Dietrich, Sebastian, Cudahy, Wis. Take-off mechanism for rubber-mixing mills. No. 1,364,183; Jan. 4; v. 282; p. 27.  
 Dietsche, Otto, Berlin-Lichtenberg, assignor to Gebrueder Siemens & Co., Berlin, Germany. Manufacturing compounds of metals of the rare earths. No. 1,371,741; Mar. 15; v. 284; p. 489.  
 Dietz, Louis E., Cincinnati, Ohio. Operating device for washing-machines. No. 1,384,121; July 12; v. 288; p. 228.  
 Dietz, Paul, Philadelphia, Pa. Automatic projection apparatus for lantern-slides. No. 1,371,871; Mar. 15; v. 284; p. 513.  
 Dietz, Paul, Philadelphia, Pa. Photographic camera. No. 1,372,803; Mar. 29; v. 284; p. 791.  
 Dietz, William. (See Ryder, Charles W., assignor.)  
 Dietzgen, Eugene, Company. (See Dieckmann, Carl F., assignor.)  
 Diez, Conrad J. (See Menshaw, T. H., and Diez.)  
 Diffany, Henry, Newark, N. J. Shaving mirror and stand. No. 1,394,070; Oct. 18.  
 Diffenderfer, John K. E., Baltimore, Md. Bottle-capping tool. No. 1,381,622; June 14; v. 287; p. 297.  
 Di Filippo, Silvio, Toledo, Ohio. Fireproofing composition. No. 1,396,264; Nov. 8.  
 Di Giacom, Michael J., Wilmington, Del. Spark-plug. No. 1,401,151; Dec. 27.  
 Di Girolamo, Giuseppe. (See Parrino, Joseph, assignor.)  
 Digby, Emmet B., Atlanta, Ga. Washing-machine. No. 1,392,275; Sept. 27; v. 290; p. 775.  
 Dihlmann, Eugen G., Leipzig-Reudnitz, Germany. Multiple press for the manufacture of shoes and boots. No. 1,388,838; Aug. 23; v. 289; p. 749.  
 Dike, Theodore W. (See Hood, A. N., Nightingale, Leland, and Dike.)  
 Dilg, Charles H. J., New York, N. Y. Shelf-support. No. 1,393,012; Oct. 11.  
 Dill, Louis M., Avoca, La. Implement-holder. No. 1,372,611; Mar. 22; v. 284; p. 711.  
 Dillard, William J., and J. D. Taylor, Portland, Oreg. Automatic weather-strip. No. 1,398,181; Nov. 22.  
 Dillet, William H., assignor to one-third to J. M. Harp and one-third to W. T. Harp, Ralston, Okla. End-gate-fastening device. No. 1,389,819; Sept. 6; v. 290; p. 52.  
 Dilley, Arzeno J., Muir, Mich. Grease-gun. No. 1,384,941; July 19; v. 288; p. 479.  
 Dilley, Arzeno J., Muir, Mich. Grease-gun. No. 1,400,034; Dec. 13.  
 Dillig, George F., Pittsburgh, Pa. Internal-combustion engine. No. 1,387,438; Aug. 9; v. 289; p. 355.  
 Dillin, Dudley F., North Canton, assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Brush-holder. No. 1,401,679; Dec. 27.  
 Dillingham, Earle S., Rochester, N. Y. Bolt-lock. No. 1,370,198; Mar. 1; v. 284; p. 84.  
 Dillingham, Frederick A., assignor to The Troy Carriage Sun Shade Company, Troy, Ohio. Windshield. No. 1,383,191; June 28; v. 287; p. 709.  
 Dillman, Joseph, assignor to Homan & Company, Cincinnati, Ohio. Candle-molding machine. No. 1,390,257; Sept. 6; v. 290; p. 139.  
 Dillon, Charles. (See Peets, Clifford S., assignor.)  
 Dillon, Edward L., assignor to L. Norvell, trustee, St. Louis, Mo. Well-drilling machine. No. 1,393,350; Oct. 11.  
 Dillon, G. A. (See Ferguson, William H., assignor.)  
 Dillon, George F., Kansas City, Mo. Jack. No. 1,377,147; May 3; v. 286; p. 146.  
 Dillon, George F., McLouth, Kans. Package-tie. No. 1,388,176; Aug. 23; v. 289; p. 619.  
 Dillon, Guy, Indianapolis, Ind., assignor, by mesne assignments, to Simmons Company, Kenosha, Wis. Mattress-tuffing machine. (Reissue.) No. 15,253; Dec. 27.  
 Dillon, James F., Crown City, Ohio, assignor to The American Mine Door Company. Cable-splice. No. 1,397,040; Nov. 15.  
 Dillon, James W., Mount Vernon, N. Y. Sound-deadener for building structures. No. 1,385,741; July 26; v. 288; p. 719.  
 Dillon, Michael C., Williston, N. D. Wrench. No. 1,371,873; Mar. 15; v. 284; p. 514.  
 Dillon, Nelson D., Seattle, Wash. Game. No. 1,373,998; Apr. 5; v. 285; p. 121.  
 Dillon, William C., Fort Dodge, Iowa. Auxiliary air device. No. 1,392,922; Oct. 11.



*Alphabetical list of patentees—Continued.*

- Dills, Henry S., Garrett, Ind., assignor of one-half to James Heddon's Sons, Incorporated, Dowagiac, Mich. Fish-bait manufacture. No. 1,391,670; Sept. 27; v. 290; p. 653.
- Dilts Machine Works. (See Rust, Mortimer R., assignor.)
- Dilworth, Otto L., Hartford, Conn. Artificial limb. No. 1,385,669; July 20; v. 288; p. 705.
- Dilworth, Otto L., Hartford, Conn. Artificial arm and hand. No. 1,385,817; July 26; v. 288; p. 734.
- Dimas, Frederick M., Baltimore, Md. Device for adjustable mouth-mirrors. No. 1,397,090; Nov. 15.
- Dimick, Lillie C., Fort Wayne, Ind. Cabinet. No. 1,380,539; June 7; v. 287; p. 41.
- Dimin, Morris B., Brooklyn, N. Y. Vehicle-fender. No. 1,293,625; Oct. 4.
- Dimitri, Georges L., and Jules E. Delaunay, Paris, France. Manufacture of refractory and insulating products. No. 1,374,493; Apr. 12; v. 285; p. 257.
- Dimler, Ernest H., assignor to Bethlehem Foundry & Machine Co., South Bethlehem, Pa. Pulverizer-mill-yoke. No. 1,390,431; Sept. 13; v. 290; p. 266.
- Dimock, Richard H., J. Shearer, and G. Wyskocil, Cedar Rapids, Iowa. No. 1,388,029; Aug. 16; v. 289; p. 533.
- Dimond, Emil, Providence, R. I. Freight-car. No. 1,385,266; July 19; v. 288; p. 534.
- Diner, Jacob, New York, N. Y., assignor to Manila Sterilizing Corporation, Manila, Philippine Islands. Sterilizing process. No. 1,397,504; Nov. 22.
- Dinesen, Laurits, assignor to Perfection Manufacturing Company, Minneapolis, Minn. Milking apparatus. No. 1,371,355; Mar. 15; v. 284; p. 413.
- Dingee, Marian P., Philadelphia, Pa. Silencer for communion-cup racks. No. 1,393,673; Oct. 11.
- Dinger, August, assignor of one-half to I. P. Dinger, and one-half to H. W. Dinger, Upland, Calif. Railway-crossing. No. 1,371,872; Mar. 15; v. 284; p. 513.
- Dinger, Harry W., et al. (See Dinger, August, assignor.)
- Dinger, Ira P., et al. (See Dinger, August, assignor.)
- Dingfeld, Oscar, Brooklyn, N. Y. Hand-case for ladies. No. 1,386,848; Aug. 9; v. 289; p. 248.
- Dingle, William G., Los Angeles, Calif., assignor to Owl Fumigating Corporation, New York, N. Y. Fumigating and spraying apparatus. (Reissue.) No. 15,248; Dec. 20.
- Dinhofer, Julius, New York, N. Y. Safety-clasp. No. 1,385,117; July 19; v. 288; p. 517.
- Dinin, Alfred, Nanterre, France. Liquid-tight joint for preventing leakage between the terminal rods and covers of electric accumulators. No. 1,379,854; May 31; v. 286; p. 918.
- Dinkelspiel, Lawrence, West New York, N. J. Lace. No. 1,391,943; Sept. 27; v. 290; p. 708.
- Dinsmoor, John L., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Snap-seal. No. 1,365,307; Jan. 11; v. 282; p. 287.
- Dinsmoor, John L., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Shackle-seal. No. 1,369,010; Feb. 22; v. 283; p. 560.
- Dinsmore, Paul R. (See Bogart, John C., assignor.)
- Dinwiddie, William, Metuchen, N. J. Internal-combustion engine. No. 1,365,666; Jan. 18; v. 282; p. 396.
- Dion, Amedee and B. Ste. Therese de Blainville, Quebec, Canada. Band-cutter and feeder. No. 1,377,323; May 10; v. 286; p. 237.
- Dion Amedee, and D. Ste-Therese de Blainville, Quebec, Canada. Threshing-machine. No. 1,397,727; Nov. 22.
- Dion, Bruno. (See Dion, Amedee and B.)
- Dionne, Arthur A., Brockton, assignor to Boston Last Company, Boston, Mass. Electrically-heated shoe-cabinet and using same. No. 1,372,488; Mar. 22; v. 284; p. 688.
- D'Iorio, Vincenzo, New York, and N. D. Manoilovich, Astoria, N. Y. Barber's hair-clipper. No. 1,366,721; Jan. 25; v. 282; p. 647.
- Dir, Joseph, Stuart, Iowa. Fly-swatter. No. 1,368,247; Feb. 15; v. 283; p. 372.
- Dirizio, Lorenzo. (See Magnani, George, assignor.)
- Di Salvo, Joseph, Chicago, Ill. Bumper-bar and support therefor. No. 1,389,344; Aug. 30; v. 289; p. 906.
- Di Sante, Vito, Wichita, Kans. Air-filter. No. 1,390,096; Sept. 6; v. 290; p. 109.
- Disbrow, Clarkson A., New Rochelle, N. Y. Insulated rail-joint. No. 1,369,226; Feb. 22; v. 283; p. 602.
- Disbrow, Clarkson A., New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Insulated rail-joint. No. 1,369,225; Feb. 22; v. 283; p. 602.
- Disbrow, Reuben B., St. Paul, Minn. Puncture-proof-tire insert. No. 1,384,243; July 12; v. 288; p. 253.
- Disbrow, Reuben B., St. Paul, Minn. Inner tube. No. 1,384,244; July 12; v. 288; p. 253.
- Disbrow, Reuben B., Owatonna, Minn. Combined churn and butter-worker. No. 1,390,343; Sept. 13; v. 290; p. 249.
- Dischinger, Joseph A., Tonawanda, N. Y. Support for bunks of silk, yarn, and the like in treating-machines. No. 1,384,052; July 12; v. 288; p. 214.
- Disc-O-Tag Company, The. (See Gray, Ishmael H., assignor.)
- Disc-O-Tag Company, The. (See Smith, Lynn B., assignor.)
- Discry, Charles D. (See de Leysat, A. G. A. S., and Discry.)
- Diskin, Moses B., New York, N. Y. Slotting-machine. No. 1,376,410; May 3; v. 286; p. 6.
- Diskin, Moses B., New York, N. Y. Tape-applying machine. No. 1,380,540; June 7; v. 287; p. 41.
- Diskin, Moses B., New York, N. Y. Corrugated-board-making machine. No. 1,396,818; Nov. 15.
- Displawel Case Co. (See Kirsch, Edwin B., assignor.)
- Diss, Daniel B., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Top-bearing caster. No. 1,395,484; Nov. 1.
- Diss, Louis P., assignor to Remington Typewriter Company, Ithaca, N. Y. Typewriting-machine. No. 1,383,699; July 5; v. 288; p. 92.
- Disy, Emile, Lyon, France. Safety apparatus for presses or other machines. No. 1,368,788; Feb. 15; v. 283; p. 478.
- Ditch, John H., and W. T. Burns, Altoona, Pa. Telephone switching-cabinet. No. 1,371,874; Mar. 15; v. 284; p. 514.
- Ditcham, William T. (See Round, Henry J., and Ditcham.)
- Ditson, Jesse, assignor, by mesne assignments, to Ingersoll-Rand Company, Littleton, Colo. Centering device. No. 1,367,360; Feb. 1; v. 283; p. 95.
- Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Capstan. No. 1,368,248; Feb. 15; v. 283; p. 372.
- Ditson, Jesse, Littleton, Colo., assignor, by mesne assignments, to Ingersoll-Rand Company. Adjustable stop member for gaging-blocks. No. 1,376,409; May 3; v. 286; p. 6.
- Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Adapter for saddle-clamps. No. 1,384,526; July 12; v. 288; p. 311.
- Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Dolly-return device. No. 1,386,769; Aug. 9; v. 289; p. 231.
- Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pin-puller. No. 1,393,094; Oct. 11.
- Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Shank and bit punch. No. 1,395,702; Nov. 1.
- Dittbrenner, John C., Indianapolis, Ind., assignor to Holton Tractor Company, Dover, Del. Tractor-plow. No. 1,378,842; May 24; v. 286; p. 653.
- Dittman, Samuel E., Brooklyn, N. Y. Correcting printing-plates. No. 1,370,418; Mar. 1; v. 284; p. 125.
- Dittman, Svend A. (See Dittmann, Halfdan and S. A., and Simonsen.)
- Dittmann, Halfdan and S. A., and R. C. Simonsen, Copenhagen, Denmark. Locking device for automobiles and the like. No. 1,377,757; May 10; v. 286; p. 320.
- Dittmer, Ernst G. W., Charlottenlund, near Copenhagen, Denmark. Apparatus for perforation of cinematographic films. No. 1,379,396; May 24; v. 286; p. 758.
- Dittrich, August C., Chicago, Ill. Time-controlling means for sound-reproducing mechanism. No. 1,373,176; Mar. 29; v. 284; p. 865.
- Dittrick, John, Sr., Perth, Ontario, Canada. Scooter-car. No. 1,389,633; Sept. 6; v. 290; p. 15.
- Dinguid, Harris A., Brooklyn, N. Y. Holder for mirrors and other articles. No. 1,380,193; May 31; v. 286; p. 982.
- Diven, Vernon L., Ogden, Utah. Door and window screen. No. 1,379,001; May 24; v. 286; p. 682.
- Diver, Bertice M., Indianapolis, Ind. License holder and illuminator. No. 1,368,026; Feb. 8; v. 283; p. 281.
- Divine, Harry V., Columbus, Ohio. Cranking or starting device for explosive-engines. No. 1,367,359; Feb. 1; v. 283; p. 95.
- Diviriglio, Ignazio, Pitcairn, Pa. Fire-tube cleaner. No. 1,383,291; July 5; v. 288; p. 7.
- Dix, Harry S., East Melbourne, J. T. Pryor, Malvern, and C. Coffey, East Malvern, Victoria, Australia. Excess-speed alarm. No. 1,377,243; May 10; v. 286; p. 221.
- Dixon, Allen, assignor of one-half to W. N. Sanders, Nashville, Tenn. Trap. No. 1,384,942; July 19; v. 288; p. 479.
- Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing-telegraph system. No. 1,365,231; Jan. 11; v. 282; p. 270.
- Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing-telegraph system. No. 1,367,735; Feb. 8; v. 283; p. 226.
- Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective system. No. 1,374,192; Apr. 12; v. 285; p. 198.
- Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,386,993; Aug. 9; v. 289; p. 277.
- Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,400,035; Dec. 13.
- Dixon, Charles W., Turkey Ford, Okla. Wrench. No. 1,391,764; Sept. 27; v. 290; p. 672.
- Dixon, Francis G. (See Hawley, A. E., Crosland, and Dixon.)
- Dixon, Israel K., Johnstown, Pa. Spring-switch. No. 1,382,960; June 28; v. 287; p. 666.
- Dixon, Marie, Neutral Bay, near Sydney, New South Wales, Australia. Self-cooling safe for viands. No. 1,381,064; June 7; v. 287; p. 142.
- Dixon, Robert E., St. Louis, Mo. Automatic brake. No. 1,386,242; Aug. 2; v. 289; p. 56.



*Alphabetical list of patentees—Continued.*

- Dixon, Thomas B., New York, N. Y. Telegraphy. No. 1,397,576; Nov. 22.
- Dixon, Thomas J., Madison, Wis. Multiple expander. No. 1,379,087; May 24; v. 286; p. 698.
- Dixon, Thomas J., Madison, Wis. Pen or pencil holding device. No. 1,382,487; June 21; v. 287; p. 522.
- Dixon, Thomas K., Houston, Tex. Automatic locking device. No. 1,365,895; Jan. 18; v. 282; p. 441.
- Dixon, Walter, Kimball, Minn. Strainer. No. 1,392,000; Sept. 27; v. 290; p. 721.
- Dixon, Walter C., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switching device. No. 1,365,308; Jan. 11; v. 282; p. 287.
- Dixon, Walter G., assignor to The Sharples Separator Co., West Chester, Pa. Emulsifier. No. 1,382,765; June 28; v. 287; p. 629.
- Dixon, Albert P., Bronson, Kans. Scaffold. No. 1,376,924; May 3; v. 286; p. 104.
- Djidijs, Alexander, New York, N. Y. Nurling device. No. 1,365,386; Jan. 11; v. 282; p. 302.
- Djidijs, Alexander, New York, N. Y. Nurling-tool. No. 1,369,792; Mar. 1; v. 284; p. 8.
- Diesl, John, Berwyn, assignor to U. S. Ball Bearing Mfg. Co., Chicago, Ill. Machine for filling ball-retainers. No. 1,401,680; Dec. 27.
- Dlugach, Harry, Memphis, Tenn. Shopping-card for use in retailing goods by samples. No. 1,377,812; May 10; v. 286; p. 331.
- Dlugach, Harry, Memphis, Tenn. Means for retailing goods by samples. No. 1,377,813; May 10; v. 286; p. 331.
- Doak, Edward C., Oakland, Calif. Flume. No. 1,364,487; Jan. 4; v. 282; p. 86.
- Doak John H., Los Angeles, Calif. Safety-clip for cuff-buttons. No. 1,367,687; Feb. 8; v. 283; p. 216.
- Doan, Harry C., and C. J. Marson, assignors to D. & M. Autoparts Co., Richmond, Ind. Piston-ring finishing assembly. No. 1,360,136; May 31; v. 286; p. 971.
- Doane, Frank R., Vandalia, Mich. Stone-gatherer. No. 1,366,068; Jan. 18; v. 282; p. 475.
- Doane, John C., East Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,384,122; July 12; v. 288; p. 228.
- Doane, John C., East Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,384,123; July 12; v. 288; p. 228.
- Dobazenecki, Bronislaw, Roslyn, N. Y. Wrench. No. 1,377,758; May 10; v. 286; p. 320.
- Dobbertin, Frederick J., assignor of one-half to A. D. Hunt, Chicago, Ill. Dampening-regulator for lithographic presses. No. 1,364,257; Jan. 4; v. 282; p. 41.
- Dobbertson, Fred C., Sturgis, Mich. Gluing-machine. No. 1,387,641; Aug. 16; v. 289; p. 457.
- Dobbin, Henry F., and E. W. Gent, assignors to Western Electric Company, Incorporated, New York, N. Y. Impulse-transmitter. No. 1,390,679; Sept. 13; v. 290; p. 318.
- Dobbins Manufacturing Company. (See Brandt, Henry E., assignor.)
- Dobbins, Michael G., Philadelphia, Pa. Soap-bubble device. No. 1,397,162; Nov. 15.
- Dobbins, Michael G., Philadelphia, assignor of one-half to F. H. Shaw, Narbeth, Pa. Emery-wheel dresser. No. 1,395,098; Oct. 25.
- Dobbins, Timothy C., Los Angeles, Calif., assignor to The Dobbins Wheel Company. Resilient vehicle-wheel. No. 1,369,328; Feb. 22; v. 283; p. 621.
- Dobbins, Timothy C., Los Angeles, Calif., assignor to The Dobbins Wheel Company, Denver, Colo. Resilient wheel for motor-vehicles. No. 1,369,329; Feb. 22; v. 283; p. 621.
- Dobbins, Timothy C., Los Angeles, Calif., assignor of one-half to D. H. Roby, Denver, Colo. Shock-absorbing mechanism. No. 1,379,443; May 24; v. 286; p. 766.
- Dobbins Wheel Company, The. (See Dobbins, Timothy C., assignor.)
- Dobelin, Charles W., Madison, Wis. Fastening device for container-covers. No. 1,365,466; Jan. 11; v. 282; p. 318.
- Doble, Abner, Detroit, Mich. Means for atomizing and igniting liquid fuel. No. 1,399,010; Dec. 6.
- Doble, John A. (See Doble, William A. and J. A.)
- Doble, John A. (See Doble, W. A., W. A., Jr., and J. A.)
- Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Steam-propelled vehicle. No. 1,364,488; Jan. 4; v. 282; p. 86.
- Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Steam-boiler. No. 1,373,177; Mar. 29; v. 284; p. 866.
- Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Fuel-control system for burners. No. 1,399,938; Dec. 13.
- Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Liquid-fuel burner. No. 1,399,939; Dec. 13.
- Doble Laboratories. (See Doble, John A., assignor.)
- Doble Laboratories. (See Doble, William A., assignor.)
- Doble Laboratories. (See Doble, William A., and J. A., assignors.)
- Doble Laboratories. (See Doble, William A., W. A., Jr., and J. A., assignors.)
- Doble, William A., assignor to Doble Laboratories, San Francisco, Calif. Liquid-fuel burner. No. 1,373,178; Mar. 29; v. 284; p. 866.
- Doble, William A., assignor to The Pelton Water Wheel Company, San Francisco, Calif. Speed-governor. No. 1,377,672; May 10; v. 286; p. 303.
- Doble, William A., assignor to The Pelton Water Wheel Company, San Francisco, Calif. System of vertical-transmission-shaft construction and means for lubricating the same. No. 1,383,989; July 5; v. 288; p. 152.
- Doble, William A. and J. A., assignors to Doble Laboratories, San Francisco, Calif. Fluid-heater. No. 1,395,399; Nov. 1.
- Doble, William A., W. A., Jr., and J. A., assignors to Doble Laboratories, San Francisco, Calif. Liquid-fuel burner. No. 1,386,994; Aug. 9; v. 289; p. 277.
- Doble, William A., Jr. (See Doble, W. A., W. A., Jr., and J. A.)
- Dobrick, August C., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Cover for priming-cups. No. 1,372,220; Mar. 22; v. 284; p. 637.
- Dobrick, Frank, Cleveland, Ohio. Container-opener. No. 1,400,425; Dec. 13.
- Dobrowski, Alfons, Racine, Wis. Auxiliary seat for tricycles. No. 1,374,911; Apr. 19; v. 285; p. 399.
- Dobson, Earl S., Stipek, Mont. Tractor-guiding mechanism. No. 1,364,735; Jan. 4; v. 282; p. 133.
- Dobson, Ernest, Wimbledon, England. Automatic safety-crane. No. 1,370,791; Mar. 8; v. 284; p. 243.
- Dobson, Frederick, Bell Center, Wis. Coin-controlled liquid-dispensing apparatus. No. 1,400,348; Dec. 13.
- Dobson, James M. (See Canfield, George E., assignor.)
- Dobyne, John C. (See Dobyne, Stephen A., and J. C.)
- Dobson, Joseph, Sheffield, England. Grinding-wheel dresser. No. 1,382,176; June 21; v. 287; p. 462.
- Dobyne, George A. and S. A., assignors to Champion Shoe Machinery Company, St. Louis, Mo. Fastener-forming mechanism for fastener-inserting machines. No. 1,377,759; May 10; v. 286; p. 320.
- Dobyne, Stephen A. (See Dobyne, George A. and S. A.)
- Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Heating system for wax-thread sewing-machines. No. 1,391,048; Sept. 20; v. 290; p. 454.
- Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Fastener and slug inserting machine. No. 1,394,478; Oct. 18.
- Dobyne, Stephen A. and J. C., assignors to Champion Shoe Machinery Company, St. Louis, Mo. Fastener-inserting machine. No. 1,369,088; Feb. 22; v. 283; p. 575.
- Dochnal, Frank, St. Louis, Mo. Manufacture of hollow tile and the like. No. 1,369,522; Feb. 22; v. 283; p. 658.
- Dochnal, Mathias, St. Louis, Mo. Tile block. No. 1,396,265; Nov. 8.
- Dock, Herman, Pleasantville, assignor to L. O. Bucklin, trustee, Little Falls, N. Y. Internal-combustion engine. No. 1,374,140; Apr. 5; v. 285; p. 147.
- Docker, Edward. (See Docker, William M. and E.)
- Docker, William M. and E., Kamloops, British Columbia, Canada. Display-stand. No. 1,385,670; July 26; v. 288; p. 705.
- Dodd, Alvin H., Chicago, Ill. Audible signal. No. 1,374,367; Apr. 12; v. 285; p. 232.
- Dodd, Henry S., assignor of one-half to J. O'Neill, Toronto, Ontario, Canada. Heater. No. 1,375,137; Apr. 19; v. 285; p. 443.
- Dodd, James H. (See Harris, Walter A., assignor.)
- Dodd, Percy W., Stafford, England. Spring-grip exerciser. No. 1,367,243; Feb. 1; v. 283; p. 72.
- Dodds, Edgar H., Crouch Hill, London, England. Pneumatic action. No. 1,388,413; Aug. 23; v. 289; p. 668.
- Dodds, Ethan I. (See Flannery, J. R., and Dodds.)
- Dodds, Ethan I. (See Flannery, John R., and Dodds.)
- Dodds, Ethan I. (See Flannery, John R., Dodds, and Hyland.)
- Dodds, Ethan I. (See Flannery, John R., Stafford, and Dodds.)
- Dodds, Ethan I. (See Stafford, B. E. D., and Dodds.)
- Dodds, Ethan I. (See Stafford, Benjamin E. D., and Dodds.)
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,364,185; Jan. 4; v. 282; p. 27.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,364,186; Jan. 4; v. 282; p. 27.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,366,722; Jan. 25; v. 282; p. 648.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,366,723; Jan. 25; v. 282; p. 648.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,373,057; Mar. 29; v. 284; p. 841.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Welding. No. 1,374,640; Apr. 12; v. 285; p. 286.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,380,541; June 7; v. 287; p. 41.



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- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Means for displaying illuminated words or characters. No. 1,383,082; June 28; v. 287; p. 689.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Illuminating means. No. 1,385,778; July 26; v. 288; p. 726.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,385,779; July 26; v. 288; p. 727.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,385,780; July 26; v. 288; p. 727.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,390,279; Sept. 13; v. 290; p. 237.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,390,988; Sept. 20; v. 290; p. 441.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,393,351; Oct. 11.
- Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Rail-fastening means. No. 1,399,011; Dec. 6.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,399,697; Dec. 6.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,399,698; Dec. 6.
- Dodds, Ethan I., Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,400,531; Dec. 20.
- Dodds, Ethan I., and F. K. Landgraf, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure for boilers. No. 1,364,184; Jan. 4; v. 282; p. 27.
- Dodds, Ethan I., and J. R. Flannery, assignor to Flannery Bolt Company, Pittsburgh, Pa. Making and installing staybolt structures in boilers. No. 1,373,058; Mar. 29; v. 284; p. 841.
- Dodds, Ethan I., and B. E. D. Stafford, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure for boilers. No. 1,383,033; June 28; v. 287; p. 689.
- Dodds, Ethan I., and F. K. Landgraf, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,383,084; June 28; v. 287; p. 689.
- Dodds, Redus D., Houston, Tex. Sample-taking device. No. 1,364,084; Jan. 4; v. 282; p. 7.
- Dodds, Redus D., Houston, Tex. Sample-taking device. No. 1,373,492; Apr. 5; v. 285; p. 22.
- Dodds, Rowan T. F., Stratford, Ontario, Canada. Preventing explosions. No. 1,376,082; Apr. 26; v. 285; p. 656.
- Dodds, Samuel R., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electromagnetic switch. No. 1,384,451; July 12; v. 288; p. 296.
- Dodds, Samuel R., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,384,452; July 12; v. 288; p. 297.
- Dodds, Thomas, Thessalon, Ontario, Canada. Invalid-bed. No. 1,388,242; Aug. 23; v. 289; p. 632.
- Dodds, Thomas, Thessalon, Ontario, Canada. Invalid-bed. No. 1,397,041; Nov. 15.
- Dodenhof, John M., St. Louis, Mo. Plane. No. 1,393,991; Oct. 18.
- Dodge Brothers. (See Berdon, Albert E., assignor.)
- Dodge Brothers. (See Cooney, Albert E., assignor.)
- Dodge Brothers. (See Dodge, J. F., and Goddard, assignors.)
- Dodge Brothers. (See Macdermid, James H., assignor.)
- Dodge, Elbert S., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,371,230; Mar. 15; v. 284; p. 388.
- Dodge, Herbert K., Palisades, N. J., assignor to Norton Company. Antislipping tile. No. 1,377,960; May 10; v. 286; p. 360.
- Dodge, J. W. (See Little, Bert A., assignor.)
- Dodge, John F., and G. E. Goddard, assignors to Dodge Brothers, Detroit, Mich. Window-runway. No. 1,387,366; Aug. 9; v. 289; p. 351.
- Dodge Manufacturing Company. (See Suplee, Henry H., assignor.)
- Dodge Manufacturing Company of Canada. (See Grass, George L., assignor.)
- Dodge, Martin L., assignor of one-half to A. E. Paye, Lake Kushaqua, N. Y. Bookrest for hospital-beds and chairs. No. 1,384,744; July 19; v. 288; p. 438.
- Dodge, Parker, Washington, D. C., assignor to The Johnson Service Co., Milwaukee, Wis. Thermostat and similar control device. No. 1,397,407; Nov. 15.
- Dodge, Paul H., Chicago, Ill. Resilient steel vehicle-wheel. No. 1,364,187; Jan. 4; v. 282; p. 27.
- Dodge Tool Company. (See Larson, Arvid G., assignor.)
- Dodge, William L., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,393,352; Oct. 11.
- Dodge, William L., and H. D. MacPherson, Maplewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,387,367; Aug. 9; v. 289; p. 351.
- Dodge, William W., Washington, D. C. Jar-closure. No. 1,401,467; Dec. 27.
- Dodge, Zenas U., New York, N. Y. Knockdown refrigerating-box. No. 1,397,269; Nov. 15.
- Dodgson, Frank L., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Absolute permissive block-signaling system. No. 1,384,521; July 12; v. 288; p. 311.
- Dodgson, Frank L., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Relay. No. 1,391,944; Sept. 27; v. 290; p. 708.
- Dodson, David W., Wichita, Kans. Wall construction. No. 1,370,686; Mar. 8; v. 284; p. 222.
- Dodson, Edwin L., Covington, Ky. Automatic coin-controlled device for permutation safe-locks or the like. No. 1,379,333; May 24; v. 286; p. 746.
- Dodson, George W., Automobile-fender. No. 1,375,574; Apr. 19; v. 285; p. 527.
- Dodson, Shelby M., and V. H. Coates, San Jose, Calif. Signaling device. No. 1,368,391; Feb. 15; v. 283; p. 400.
- Doe, Loring B., San Francisco, Calif. Draft means. No. 1,391,101; Sept. 20; v. 290; p. 464.
- Doe, Walter S., Kent, Ohio. Battery-connector. No. 1,393,674; Oct. 11.
- Doe, Walter S., Kent, Ohio. Flashlight. No. 1,393,675; Oct. 11.
- Doehler, Augustine. (See Matthews, George S., assignor.)
- Doehler Die Casting Company. (See Chapple, Charles E., assignor.)
- Doehler Die Casting Company. (See Gutmueller, Robert, assignor.)
- Doehler Die Casting Company. (See Rau, Herman, assignor.)
- Doelckner, Max A., Louisville, Ky. Clamp. No. 1,398,091; Nov. 22.
- Doell, Anthony P., Minneapolis, Minn. Draft-producing device. No. 1,390,889; Sept. 13; v. 290; p. 359.
- Doell, Theodore W., and L. A. F. Maes, Corona, Calif. Extracting pectin. No. 1,385,525; July 26; v. 288; p. 675.
- Doellinger, Louis F., Waterloo, Iowa. Wringer attachment. No. 1,375,784; Apr. 26; v. 285; p. 598.
- Doering, Charles. (See Doering, Henry H., and C.)
- Doering, Charles J. (See Doering, William M., and C. J.)
- Doering, George, St. Louis, Mo. High-arch-repair last. No. 1,375,282; Apr. 19; v. 285; p. 471.
- Doering, Henry H., and C., Chicago, Ill. Butter-print machine. No. 1,384,245; July 12; v. 288; p. 254.
- Doering, William M. and C. J., Cincinnati, Ohio. Container and display carton. No. 1,390,196; Sept. 6; v. 290; p. 128.
- Doerner, John M., St. Cloud, Minn. Plow. No. 1,395,179; Oct. 25.
- Doerr, Fred H., Grand Rapids, Mich., assignor to Cheney Talking Machine Company, Chicago, Ill. Swaging needle-arms and fulcrum-bars. No. 1,394,717; Oct. 25.
- Doerr, Fred H., Grand Rapids, Mich., assignor, by mesne assignments, to W. D. Bleick, Newark, N. J. Computing-machine. No. 1,398,068; Nov. 22.
- Doerr, George A., Peoria, Ill. Water-cooler. No. 1,390,280; Sept. 13; v. 290; p. 113.
- Doerr, Harry E., assignor to Scullin Steel Co., St. Louis, Mo. Railway side-frame and journal-box connection. No. 1,376,684; May 3; v. 286; p. 57.
- Doerr, Harry E., assignor to Scullin Steel Company, St. Louis, Mo. Side frame. No. 1,378,221; May 17; v. 286; p. 461.
- Doerr, Harry E., assignor to Scullin Steel Co., St. Louis, Mo. Truck side frame. No. 1,380,782; June 7; v. 287; p. 87.
- Doerr, Harry E., assignor to Scullin Steel Co., St. Louis, Mo. Railway-car track. No. 1,390,344; Sept. 13; v. 290; p. 249.
- Doerr, Harry E., assignor to Scullin Steel Co., St. Louis, Mo. Rail-joint. No. 1,393,764; Oct. 18.
- Doersom, John, Columbus, Ohio. Furnace. No. 1,378,529; May 17; v. 286; p. 520.
- Doggett, Allen B., Brooklyn, N. Y. Drawing instrument. No. 1,401,591; Dec. 27.
- Doherty, Henry L. (See Laird, Wilbur G., assignor.)
- Doherty, Henry L., New York, N. Y. Ventilation. No. 1,382,961; June 28; v. 287; p. 666.
- Doherty, John, New York, assignor to M. I. Kopple, Far Rockaway, N. Y. Variable-speed device. No. 1,374,439; Apr. 12; v. 285; p. 246.
- Doherty Research Company. (See Fisher, James P., assignor.)
- Doht, John, and H. H. Bartelt, Quincy, Ill. Toy vehicle. No. 1,367,771; Feb. 8; v. 283; p. 233.
- Dolan, John J., Sr., Duquesne, Pa. Tool-holder. No. 1,379,539; May 24; v. 286; p. 785.
- Dolbear, Clinton E., assignor of three-fourths to D. C. Norcross and one-fourth to J. H. Miller and G. J. Henry, San Francisco, Calif. Recovering potassium salts from solutions carrying borates or carbonates or both. No. 1,373,179; Mar. 29; v. 284; p. 866.
- Dolbear, Clinton E., assignor to Industrial Research Co., San Francisco, Calif. Separation of borax from potassium salts. No. 1,382,825; June 28; v. 287; p. 640.



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- Dolbear, Clinton E., Los Angeles, assignor of three-fourths to D. C. Norcross, and one-fourth to J. H. Miller and G. J. Henry, San Francisco, Calif. Recovering potassium compounds from brines containing the same in association with other chemical compounds. No. 1,394,978; Oct. 25.
- Dolbey, Harry S., Providence, R. I. Dental mirror. No. 1,387,770; Aug. 16; v. 289; p. 483.
- Dolder, Edward H., Serena, Ill. Washing-machine. No. 1,397,270; Nov. 15.
- Dolensky, Eugen, Frankfort-on-the-Main, Germany. Producing gas of bituminous fuel mixed by the gas of the distillation of coal. No. 1,384,453; July 12; v. 288; p. 297.
- Dolezal, John, Guernsey, Iowa. Non-leak cap for gasoline-tanks. No. 1,380,045; May 31; v. 286; p. 954.
- Dollnar, Thomas, Piney Fork, Ohio. Churn. No. 1,373,313; Mar. 29; v. 284; p. 892.
- Doll, Henry. (See Lengyel, J., and Doll.)
- Doll, Henry, J. Lengyel, and J. Doll, New York, N. Y. Spool-shifting mechanism. No. 1,370,522; Mar. 8; v. 284; p. 190.
- Doll, John. (See Doll, H. and J., and Lengyel.)
- Doll, Louis, Los Angeles, Calif. Automobile-seat cushion. No. 1,382,596; June 21; v. 287; p. 543.
- Dolling, Thomas H., La Junta, Colo. Beet-harvester. No. 1,388,991; Aug. 30; v. 289; p. 836.
- Dolliver, Pillsbury C., Medford, Mass. Tide-power apparatus. No. 1,364,619; Jan. 4; v. 282; p. 110.
- Dolomite Products Company. (See Mollen, J. F., and Patnee, assignors.)
- Dolph, Otto W., Los Angeles, Calif. Vulcanizing air-bag. No. 1,379,397; May 24; v. 286; p. 758.
- Domain, John P., assignor of one-half to O. T. Deal, Los Angeles, Calif. Tool-handle. No. 1,392,627; Oct. 4.
- Domanski, Louis, New York, N. Y., assignor of one-half to Steve Mihalkevich, Middletown, Pa. Lock. No. 1,364,736; Jan. 4; v. 282; p. 133.
- Domanski, Stanislaw, Elyria, Ohio. Plow. No. 1,383,609; July 5; v. 288; p. 73.
- Domenico, Deiana, San Francisco, Calif. Power-generating apparatus. No. 1,385,526; July 26; v. 288; p. 675.
- Domestic Electric Company, The. (See Cook, Joel R., assignor.)
- Domestic Electric Company, The. (See Mace, Arthur T., assignor.)
- Domestic Electric Company, The. (See Spielman, Milton H., assignor.)
- Domestic Refrigerating Co. (See Raddant, Walter C., assignor.)
- Domestic Sewing Machine Co. (See Riddell, George H., assignor.)
- Domestic Utility Corporation, The. (See Warren, Frank D., assignor.)
- Domhoff, John F., and R. M. Sabo, East St. Louis, Ill. Gas-stove. No. 1,385,810; July 19; v. 288; p. 554.
- Domine, Hans P., Rochester, N. Y. Tile-forming machine. No. 1,377,188; May 10; v. 286; p. 210.
- Dominguez, Manuel D., New Orleans, La. Trolley. No. 1,392,560; Oct. 4.
- Dominguez, Salvador, Mexico, Mexico. Automobile-wheel. No. 1,383,085; June 28; v. 287; p. 689.
- Domnick, Charles, Bath, Me. Cigarette-case. No. 1,384,690; July 12; v. 288; p. 847.
- Domizi, David F., Cleveland, Ohio. Drying-oven. No. 1,381,974; June 21; v. 287; p. 425.
- Domscheit, Frederick E., Bridgeport, Conn. Sash-holder. No. 1,377,619; May 10; v. 286; p. 293.
- Don, Jack, Detroit, Mich. Drinking-cup. No. 1,369,634; Feb. 22; v. 283; p. 681.
- Donada, Benito J., Refugio, assignor of one-third to J. R. Dougherty, Beeville, and one-third to B. Shelton, Refugio, Tex. Priming device. No. 1,367,025; Feb. 1; v. 283; p. 28.
- Donahue, Christopher C., Bridgeport, Conn. Hose-supporter. No. 1,378,663; May 17; v. 286; p. 546.
- Donahue, John J., Centerville, Mass. Valve-reseating tool. No. 1,366,639; Jan. 25; v. 282; p. 631.
- Donaire, Pedro, Habana, Cuba. Construction for raising sunken vessels. No. 1,390,097; Sept. 6; v. 290; p. 109.
- Donaldson, Charles W., Akron, Ohio. Concrete ship construction. No. 1,377,153; May 3; v. 286; p. 147.
- Donaldson, David, Leith, Scotland. Device for electrically heating hand-irons. No. 1,401,592; Dec. 27.
- Donaldson & Fisher Company, The. (See Fisher, Harvey L., assignor.)
- Donaldson & Fisher Company, The. (See Fisher, Milan H., assignor.)
- Donaldson, James O., Stockton, Calif. Ditching-machine. No. 1,391,765; Sept. 27; v. 290; p. 672.
- Donaldson, James P. (See Barger, N. L., and Donaldson. (Reissue.)
- Donaldson, Lillian D., New Washington, Ohio. Stock-feeder. No. 1,373,602; Apr. 5; v. 285; p. 43.
- Donaldson, Samuel A., Phil Campbell, Ala. Swingletree. No. 1,368,123; Feb. 8; v. 283; p. 300.
- Donaldson, William H. (See Brouhard, R. W., and Donaldson.)
- Donati, Adolph, Brooklyn, N. Y. Bicycle stand or support. No. 1,392,749; Oct. 4.
- Donauer, Max, Elyria, Ohio. Liquid-agitating mechanism. No. 1,399,699; Dec. 6.
- Donavan, Paul J., Denver, Colo. Non-fouling spark-plug. No. 1,372,489; Mar. 22; v. 284; p. 688.
- Dondo, Mathurin M., New York, N. Y. Marionette. No. 1,400,532; Dec. 20.
- Donegan, Joseph J., Kansas City, Mo. Lawn-sprinkler. No. 1,377,409; May 10; v. 286; p. 254.
- Donelan, Dermot, London, England. Remembrancer. No. 1,378,769; May 17; v. 286; p. 566.
- Donisthorpe, Horace St. J. de A., London, England. Radio telegraphic and telephonic apparatus. No. 1,388,936; Aug. 30; v. 289; p. 824.
- Donisthorpe, Horace S. de A., London, England. Thermionic valve for use in wireless telegraphy and telephony. No. 1,391,671; Sept. 27; v. 290; p. 653.
- Donkel, Lloyd H., assignor of one-half to S. G. Pate, Macon, Ga. Combined follower and expander for packing-rings. No. 1,391,124; Sept. 27; v. 290; p. 745.
- Donle, Harold P., assignor to The Connecticut Telephone & Electric Co., Inc., Meriden, Conn. Vacuum-tube base. No. 1,374,832; Apr. 12; v. 285; p. 322.
- Donnellan, Edward P., assignor to Standard Coin Counter, Inc., Brooklyn, N. Y. Coin-counting machine. No. 1,389,634; Sept. 6; v. 290; p. 15.
- Donnellan, Frank B., San Francisco, Calif. Cooking-retort. No. 1,396,266; Nov. 8.
- Donnelley, R. R., & Sons Company. (See Kately, S. E., and Alger, assignors.)
- Donnelly, Daniel B. (See Donnelly, John R. and D. B., assignors.)
- Donnelly, George F. (See Curran, L. J., and Donnelly.)
- Donnelly, Jacob E., Pittsburgh, Pa. Valve-cleaner. No. 1,378,586; May 17; v. 286; p. 530.
- Donnelly, James A., Brooklyn, N. Y. Check-valve. No. 1,366,171; Jan. 18; v. 282; p. 495.
- Donnelly, John E., Branford, and A. J. Grieser, New Haven, Conn. Pipe-cutter. No. 1,380,948; June 7; v. 287; p. 119.
- Donnelly, John J., Denver, Colo. Windmill. No. 1,387,692; Aug. 16; v. 289; p. 467.
- Donnelly, John R., assignor of one-half to D. B. Donnelly, Fairfield, Me. Attachment for oil-stoves. No. 1,366,365; Jan. 25; v. 282; p. 576.
- Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Box-filling machine. No. 1,386,243; Aug. 2; v. 289; p. 56.
- Donnelly, William J., Stockton, Calif. Folding shipping-crate. No. 1,382,488; June 21; v. 287; p. 522.
- Donnelly, William T., Brooklyn, N. Y. Wooden ship. No. 1,401,889; Dec. 27.
- Donner, Joseph, Chicago, Ill. Cream-depilatory. No. 1,379,855; May 31; v. 286; p. 918.
- Donner, Stephen, assignor of one-fourth to C. W. Felgner, and three-fourths to F. C. Balk, Toledo, Ohio. Beet-blocker. No. 1,394,152; Oct. 18.
- Donohoe, Philip J., New York, N. Y. Gripping attachment for tires. No. 1,380,137; May 31; v. 286; p. 971.
- Donohoe, Thomas, Edgewood, Pa. Coal-mining machine. No. 1,387,886; Aug. 16; v. 289; p. 506.
- Donohue, John M., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-ether solvent and composition. No. 1,394,505; Oct. 18.
- Donovan, Dennis. (See Zirwas, A. C., and Donovan.)
- Donovan, Jerome J., Oakland, Calif. Bath-spray. No. 1,391,766; Sept. 27; v. 290; p. 672.
- Dooley, John J. (See Howley, T. H. A., and Dooley.)
- Dooley, William D., assignor, by mesne assignments, to L. D. Bowser, Dallas, Tex. Electrically-controlled puller for oil-well casings. No. 1,374,833; Apr. 12; v. 285; p. 322.
- Dooley, William D., assignor, by mesne assignments, to L. D. Bowser, Dallas, Tex. Magnetically-operated oil-well fishing-tool. No. 1,374,834; Apr. 12; v. 285; p. 322.
- Doolittle, John F., Falfurrias, Tex., assignor to The Cleveland Steel Tool Company, Cleveland, Ohio. Punch. No. 1,368,327; Feb. 15; v. 283; p. 387.
- Doose, Gabriel H. W., New Orleans, La. Bicycle propulsion-gearing. No. 1,388,102; Aug. 16; v. 289; p. 548.
- Doran, Charles A., assignor to Bauer & Black, Chicago, Ill. Washer-saturating machine. No. 1,394,153; Oct. 18.
- Dorau, John P., North Fond du Lac, Wis. Jack. No. 1,388,103; Aug. 16; v. 289; p. 548.
- Doray, Leon L., Hamilton, Ontario, Canada. Headlight for automobiles. No. 1,389,035; Aug. 30; v. 289; p. 844.
- Dorel, Félix, Paris, France. Manufacture of gelatinous compositions for use in the reproduction of line documents. No. 1,386,995; Aug. 9; v. 289; p. 277.
- Dorel, Jean, Ville d'Avray, France. Hand inking-roller for inking clichés. No. 1,380,467; June 7; v. 287; p. 27.
- Doremus, Andrew J., *et al.* (See Treneer, J. M., and Benjamin, assignors.)
- Doremus, Charles A., New York, N. Y. Production of aluminum salts. No. 1,391,172; Sept. 20; v. 290; p. 479.
- Doremus, Isaac W., West Englewood, N. J. Game. No. 1,383,610; July 5; v. 288; p. 73.
- Dorer, Primus O., assignor to S. Smith & Sons (Motor Accessories), Limited, London, England. Electric lamp for vehicles. No. 1,399,940; Dec. 13.
- Dorey, Sylvester, Gloversville, N. Y. Shaving-cup. No. 1,396,561; Nov. 8.



*Alphabetical list of patentees—Continued.*

- Dority, Ralph, Washington, D. C., G. E. Ijams, Baltimore, Md., and H. W. Breining, Washington, D. C. Combined statement and return envelop. No. 1,371,670; Mar. 15; v. 284; p. 475.
- Dority, Ralph, Washington, D. C., and H. W. Breining, Brooklyn, N. Y., assignors of one-third to G. E. Ijams. Combined statement and return envelop. No. 1,401,324; Dec. 27.
- Dorman, Arkley M., Campo, Colo. Power conveyance. No. 1,364,085; Jan. 4; v. 282; p. 7.
- Dorman, De Witt C., Great Falls, Mont. Propeller. No. 1,372,742; Mar. 29; v. 284; p. 778.
- Dorman, Edward A., assignor to J. H. Dorman, New York, N. Y. Jack. No. 1,367,307; Feb. 1; v. 283; p. 84.
- Dorman, Frank C., Charleston, W. Va. Portable house. No. 1,364,357; Jan. 4; v. 282; p. 60.
- Dorman, John H. (See Dorman, Edward A., assignor.)
- Dorman, Richard B., Middlesborough, England. Superheater for locomotive, marine, and other boilers. No. 1,372,491; Mar. 22; v. 284; p. 688.
- Dormandy, Garry J., assignor of one-half to United Shirt & Collar Company, Troy, N. Y. Shade or reflector and support therefor. No. 1,371,549; Mar. 15; v. 284; p. 452.
- Dorment, Frank C., Cleveland, Ohio. Inhaler. No. 1,369,916; Mar. 1; v. 284; p. 31.
- Dormont, Frank C., Cleveland, Ohio. Eye massaging and medicating apparatus. No. 1,377,760; May 10; v. 286; p. 320.
- Dorn, Henry C., and H. A. Luedke, assignors to D & L Mfg. Co., Milwaukee, Wis. Reinforcing-corner for receptacles. No. 1,397,623; Nov. 22.
- Dorban, James. (See Portham, R. S., and Dornan.)
- Dornan, William, assignor of one-half to Hazard & Miller, Los Angeles, Calif. Anvil. No. 1,396,679; Nov. 8.
- Dorney, John P., Watervliet, N. Y. Combination-gage. No. 1,379,253; May 24; v. 286; p. 730.
- Dorr Company, The. (See Bascom, Percy H., assignor.)
- Dorr Company, The. (See Morgan, Howard W., assignor.)
- Dorr Company, The. (See Peck, Charles L., assignor.)
- Dorr Company, The. (See Shafor, Ralph W., assignor.)
- Dorr, Harry A., assignor to Hahne & Company, Newark, N. J. Store-service check. No. 1,379,002; May 24; v. 286; p. 683.
- Dorr, Willard L., Rockford, Ill. Device for cutting sheet materials. No. 1,376,747; May 3; v. 286; p. 69.
- Dorrance, Charles J., Chicago, Ill. Trolley-harp carrier. No. 1,394,507; Oct. 18.
- Dorrance, David W., San Jose, Calif. Artificial limb. No. 1,387,133; Aug. 9; v. 289; p. 304.
- Dorrance, David W., San Jose, Calif. Artificial-limb joint. (Reissue.) No. 15,198; Sept. 20; v. 290; p. 577.
- Dorrada, William F., assignor of one-half to C. S. Sutherland, Baltimore, Md. Direction-indicator. No. 1,383,192; June 28; v. 287; p. 709.
- Dorris, John E., Buffalo, N. Y. Bubble-pipe. No. 1,381,458; June 14; v. 287; p. 267.
- Dorsey, Charles F., Iroquois Falls, Ontario, Canada. Tourniquet. No. 1,366,121; Jan. 18; v. 282; p. 485.
- Dorsey, Farnum F., assignor to North East Electric Company, Rochester, N. Y. Ignition system. No. 1,382,414; June 21; v. 287; p. 507.
- Dorsey, Frank H., Kansas City, Mo. Switch-point filler-block. No. 1,370,792; Mar. 8; v. 284; p. 243.
- Dorsey, Henry A., Enterprise, Ala. Stump-pulling and skidder attachment for tractors. No. 1,374,835; Apr. 12; v. 285; p. 322.
- Dorsey, Herbert G., Dayton, Ohio. Submarine mine. No. 1,390,768; Sept. 13; v. 290; p. 335.
- Dorsey, Herbert G., Granville, Ohio. Telegraphy. No. 1,398,892; Nov. 29.
- Dorsey, Herbert G., Gloucester, Mass. Device for applying chains to wheels in motion. No. 1,399,700; Dec. 6.
- Dorsey, Herbert G., Gloucester, Mass., and A. C. Kirshner, assignors to The National Cash Register Company, Dayton, Ohio. Credit-slip-authorizing apparatus. No. 1,372,804; Mar. 29; v. 284; p. 791.
- Dorsey, Ishum B., Eminence, Ky. Washtub-protector. No. 1,400,733; Dec. 20.
- Dorsey, John W., Winnipeg, Manitoba, Canada. Party-line lockout for telephone systems. No. 1,382,766; June 28; v. 287; p. 629.
- Dorsey, Oren M., Pollock, La. Fly or other insect trap. No. 1,371,200; Mar. 8; v. 284; p. 319.
- Dorsk, Frank L., Baltimore, Md., assignor to Maryland Toy Manufacturing Company, Inc. Toy. No. 1,365,467; Jan. 11; v. 282; p. 318.
- Dorso, Gennaro, San Francisco, Calif. Making ornamental articles. No. 1,396,267; Nov. 8.
- Dorton, William, Leadwood, Mo. Jig. No. 1,391,531; Sept. 20; v. 290; p. 552.
- D'Orville, Theodore L. R., Sewickley, assignor to Standard Steel Spring Company, Coraopolis, Pa. Machine for making leaf-springs. No. 1,375,038; Apr. 19; v. 285; p. 425.
- D'Orville, Theodore L. R., Sewickley, assignor to Standard Steel Spring Company, Coraopolis, Pa. Leaf-spring and making the same. No. 1,381,014; June 7; v. 287; p. 133.
- Dory, Joseph, St. Maurice, La. Saw-clamp. No. 1,396,818; Nov. 15.
- Dosenbach, Benjamin H., deceased; E. M. Dosenbach, executrix, Butte, Mont. Ore concentration. No. 1,377,189; May 10; v. 286; p. 210.
- Dosenbach, Benjamin H., deceased, Butte, Mont., and W. A. Scott, Chicago, Ill., said Scott assignor to Minerals Separation North American Corporation; E. M. Dosenbach, distribute by order of court in the estate. Concentrating ore. No. 1,401,055; Dec. 20.
- Dosenbach, Edna M., distribute by order of court. (See Dosenbach, B. H., and Scott.)
- Dosenbach, Edna M., executrix. (See Dosenbach, Benjamin H.)
- Doss, Freeman C., Atlanta, Ga. Tire. No. 1,372,284; Mar. 22; v. 284; p. 649.
- Doss, John L., Albany, Ala. Cotton-chopper. No. 1,390,100; Sept. 6; v. 270; p. 110.
- Dossett, Clifford B., Janesville, Minn. Radiator-cap. No. 1,394,288; Oct. 18.
- Dossin, Charles G., Meriden, Conn. Tobacco-pipe. No. 1,397,946; Nov. 22.
- Dotterweich, George, Richmond Hill, N. Y. Automobile-engine support. No. 1,388,104; Aug. 16; v. 289; p. 548.
- Dottl, Joseph, and H. G. Hart, Madison, Wis. Support. No. 1,373,716; Apr. 5; v. 285; p. 65.
- Doty, Boyd A., assignor to Hard Manufacturing Co., Buffalo, N. Y. Crib or bed. No. 1,371,607; Mar. 15; v. 284; p. 463.
- Doty, Lillian F., La Grange, Ill. Undergarment. No. 1,391,618; Sept. 20; v. 290; p. 569.
- Doty, Walter G., assignor to The Wagner Engineering Company, Dayton, Ohio. Machine element. No. 1,393,886; Oct. 18.
- Dotzer, Hugo. (See Barnard, Samuel G., assignor.)
- Dotzer, Hugo, and S. G. Barnard, Seattle, Wash. Piston. No. 1,382,895; June 28; v. 287; p. 653.
- Dotzer, Hugo, and S. G. Barnard, Seattle, Wash. Bumper. No. 1,386,452; Aug. 2; v. 289; p. 95.
- Double, Alice, administratrix. (See Double, Edward.)
- Double, Edward, deceased, Los Angeles, Calif.; A. Double, administratrix. Underreamer. No. 1,388,105; Aug. 16; v. 289; p. 548.
- Doud, Charles A., Underwood, Wyo. Excavating-machine. No. 1,391,532; Sept. 20; v. 290; p. 552.
- Dougall, John C., South Melbourne, Victoria, Australia. Keyless locking mechanism. No. 1,372,490; Mar. 22; v. 284; p. 688.
- Dougan, Bruce, St. Louis, Mo. Receptacle for bottles and the like. No. 1,383,453; July 5; v. 288; p. 41.
- Dougan, Kennedy, Minneapolis, Minn. Heavy artillery. No. 1,375,491; Apr. 19; v. 285; p. 511.
- Dougan, Kennedy, Minneapolis, Minn. Steering mechanism for dirigible bodies. No. 1,384,745; July 19; v. 288; p. 439.
- Dougan, Kennedy, Minneapolis, Minn. Apparel-belt buckle. No. 1,398,632; Nov. 29.
- Dougan, Kennedy, Minneapolis, Minn. Apparel-belt buckle. No. 1,398,633; Nov. 29.
- Dougherty, James R., et al. (See Donada, Benito J., assignor.)
- Dougherty, John L., assignor of one-half to F. C. Moran, Anaconda, Mont. Filler-cap for tanks. No. 1,368,616; Feb. 15; v. 283; p. 444.
- Dougherty, Stephen O., Toronto, Jefferson county, Ohio. Shade and curtain hanger. No. 1,392,405; Oct. 4.
- Dougherty, Thomas, Minneapolis, Minn. Rail-joint. No. 1,383,086; June 28; v. 287; p. 689.
- Doughtie, John E., et al. (See Howell, Henry M., assignor.)
- Doughty, George E. (See Liebman, M., and Doughty.)
- Douglas, Beverly, Baltimore, Md. Device for supplying heated vapor to internal-combustion engines. No. 1,373,603; Apr. 5; v. 285; p. 43.
- Douglas, Harry A., Bronson, Mich. Electrical connector. No. 1,369,635; Feb. 22; v. 283; p. 681.
- Douglas, Harry A., Bronson, Mich. Lamp. No. 1,377,412; May 10; v. 286; p. 254.
- Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Circuit-extending plug. No. 1,377,410; May 10; v. 286; p. 354.
- Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Circuit-connector. No. 1,377,411; May 10; v. 286; p. 254.
- Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Connector. No. 1,391,303; Sept. 20; v. 290; p. 506.
- Douglas, James W., et al. (See Jackson, Richard, Jr., assignor.)
- Douglas, John D., Burkburnett, Tex. Calk attachment for horseshoes. No. 1,373,118; Mar. 29; v. 284; p. 853.
- Douglas, John J. (See Payne, L. M., Miller, and Douglas.)
- Douglas, Louis M. (See Parsons, C. A., Cook, and Douglas.)
- Douglas, Louis M. (See Parsons, C. A., Stanley, and Douglas.)
- Douglas, Raymond I., Attleboro, Mass. Buckle. No. 1,400,666; Dec. 20.
- Douglas & Rudd Mfg. Co. (See Douglas, Harry A., assignor.)
- Douglas, Theodore, Scarborough, and W. T. Tabb, assignors to Duplex Engine-Governor Company, Inc., Brooklyn, N. Y. Electrically-operated speed-regulator. No. 1,390,510; Sept. 13; v. 290; p. 282.
- Douglas, William, Kingswood, Bristol, England. Roller-bearing. No. 1,383,292; July 5; v. 288; p. 7.



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- Douglas, William W., and S. L. Bailey, Bristol, England. Valve-operating mechanism for internal-combustion engines. No. 1,399,941; Dec. 13.
- Douglass, Andrew C., Sonoma, Calif. Turbine-pump. No. 1,396,820; Nov. 15.
- Douglass, Gibson L., Duluth, Minn. Recording apparatus. No. 1,387,642; Aug. 16; v. 289; p. 457.
- Douglass-Hamilton, Edith A. H., *et al.*, executors. (See Aveline, Georges, assignor.)
- Douglass, Harry B., Detroit, Mich. Gage. No. 1,390,432; Sept. 13; v. 290; p. 266.
- Douglass, Ray, Deer Park, N. Y. Bobbin-winding apparatus for sewing-machines. No. 1,387,368; Aug. 9; v. 289; p. 351.
- Douglass, Richard W., West New Brighton, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Heat-exchanger. No. 1,397,091; Nov. 15.
- Douros, Peter, St. Louis, Mo. Shoe-shining apparatus. No. 1,371,875; Mar. 15; v. 284; p. 514.
- Douthat, John F., *et al.*, trustee. (See Fischer, Henry F., assignor.)
- Douthitt, F. W., *et al.* (See Krotzer, Charles, assignor.)
- Douthitt, L. B., *et al.* (See Krotzer, Charles, assignor.)
- Doutney, George, Brooklyn, N. Y. Lock for envelopes and other containers. No. 1,384,604; July 12; v. 288; p. 329.
- Dove, Bascom A., Dallas, Tex. Lock and key. No. 1,382,826; June 28; v. 287; p. 640.
- Dover, George W., Cranston, R. I. Lathe-tool. No. 1,366,866; Jan. 25; v. 282; p. 576.
- Dover, George W., Cranston, R. I. Lathe-tool. No. 1,366,867; Jan. 25; v. 282; p. 576.
- Dover, George W., Cranston, R. I. Tool-holder. No. 1,366,640; Jan. 25; v. 282; p. 632.
- Dover, Horace W., St. James, England. Hand-wheel. No. 1,388,806; Aug. 23; v. 289; p. 744.
- Dover, Horace W., St. James, England. Hand-wheel. No. 1,398,069; Nov. 22.
- Dover, Oscar A., Gastonia, N. C. Lubricating means for spinning-rings. No. 1,375,833; Apr. 26; v. 285; p. 608.
- Dover Stamping & Manufacturing Company. (See Hanson, Thure, assignor.)
- Dow, Andrew, Seattle, Wash. Stump-puller. No. 1,384,384; July 12; v. 288; p. 283.
- Dow, Charles H., Boston, Mass., assignor of one-half to R. T. Green, Quincy, Mass. Grease-cup. No. 1,370,523; Mar. 8; v. 284; p. 190.
- Dow Chemical Company, The. (See Barstow, E. O., and Jones, assignor.)
- Dow Chemical Company, The. (See Dow, Herbert H., assignor.)
- Dow Chemical Company, The. (See Harlow, Ivan F., assignor.)
- Dow Chemical Company, The. (See Jones, Coulter W., assignor.)
- Dow Chemical Company, The. (See Kirst, William E., assignor.)
- Dow Chemical Company, The. (See Putnam, Mark E., assignor.)
- Dow Chemical Company, The. (See Seaton, Max Y., assignor.)
- Dow Chemical Company, The. (See Veazey, William R., assignor.)
- Dow Chemical Company, The. (See Ward, Louis E., assignor.)
- Dow, Fred T., Bangor, Me. Treating peat and similar substances. No. 1,393,435; Oct. 11.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Extracting bromin and apparatus for use therein. No. 1,376,610; May 3; v. 286; p. 44.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Fusion process. No. 1,379,619; May 31; v. 286; p. 874.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Electrolytic apparatus. No. 1,386,094; Aug. 2; v. 289; p. 27.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Treating brine. No. 1,386,244; Aug. 2; v. 289; p. 56.
- Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Removing water of crystallization from magnesium chlorid. No. 1,389,546; Aug. 30; v. 289; p. 946.
- Dow, Leander A., assignor to Pacific Car & Foundry Co., Seattle, Wash. Trailer. No. 1,400,349; Dec. 13.
- Dow, Louis F., Company. (See Groh, Robert C., assignor.)
- Dow, Sam., Boston, Mass. Detachable rubber heel for shoes. No. 1,397,834; Nov. 22.
- Dow Wire and Iron Works. (See Ratterman, Ray G., assignor.)
- Dowd, Andrew D. (See Rainey, P. M., and Dowd.)
- Dowd, Andrew D., Hoboken, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,364,086; Jan. 4; v. 282; p. 7.
- Dowd, John A., Fall River, Mass. Boiler staybolt construction. No. 1,399,942; Dec. 13.
- Dowd, John C., Merchantville, N. J. Vehicle-spring. No. 1,392,680; Oct. 4.
- Dowd, Thomas J., New York, N. Y. Portable water-heater. No. 1,371,876; Mar. 15; v. 284; p. 514.
- Dowdell, William A., *et al.* (See Willis, Frank H., assignor.)
- Dowden, John E., Lake Preston, S. D. Loading-machine. No. 1,383,910; July 5; v. 288; p. 135.
- Dowdy, Morton T., East Bakersfield, Calif. Combination-lock for automobiles. No. 1,393,676; Oct. 11.
- Dowe, George M., New York, N. Y. Signal-controlling device. No. 1,395,562; Nov. 1.
- Dowell, Albert T. (See Hecht, J. S., and Dowell.)
- Dowell, Chester M., Huntingburg, Ind. Supplemental tractor device. No. 1,370,293; Mar. 1; v. 284; p. 102.
- Dower, George G., assignor of one-half to G. I. Alden, Worcester, Mass. Self-lubricating metal bearing and the like. No. 1,390,197; Sept. 6; v. 290; p. 128.
- Dowling, Francis J., New York, N. Y. Lock. No. 1,387,245; Aug. 9; v. 289; p. 325.
- Dowling, Francis J., New York, N. Y. Locking hinge or connector. No. 1,391,304; Sept. 20; v. 290; p. 506.
- Down, Sidney G., and C. D. Stewart, Berkeley, Calif. Pulverized-fuel-burning apparatus. No. 1,388,030; Aug. 16; v. 289; p. 533.
- Down, Sidney G., Berkeley, assignor to Associated Engineering and Supply Company, San Francisco, Calif. Liquid-fuel-control system. No. 1,375,492; Apr. 19; v. 285; p. 511.
- Down, Sidney G., Berkeley, assignor to Associated Engineering and Supply Company, San Francisco, Calif. Liquid-fuel control system. No. 1,400,667; Dec. 20.
- Down, Thomas M., Kew Gardens, England. Analyzing, transmitting, and reconstructing pictures or the like. No. 1,379,905; May 31; v. 286; p. 927.
- Downard, James S., Ardmore, Okla. Block-molding machine. No. 1,393,270; Oct. 11.
- Downer, Fred O., Battle Creek, Mich., assignor to Shirley Brothers Company, Incorporated, Indianapolis, Ind. Burial-casket. No. 1,381,908; June 21; v. 287; p. 413.
- Downes, George H., Wolverhampton, England. Fastening device for lids of pots or vessels. No. 1,376,801; May 3; v. 286; p. 80.
- Downey, Andrew, assignor of one-half to F. Martin, Columbus, Ohio. Wrecking-tool. No. 1,389,820; Sept. 6; v. 290; p. 52.
- Downey, Clement L., Cincinnati, Ohio. Coin-wrapper. No. 1,379,751; May 31; v. 286; p. 898.
- Downey, Clement L., Cincinnati, Ohio. Coin-tube. No. 1,386,770; Aug. 9; v. 289; p. 231.
- Downey, John B., and A. C. Edgcomb, Topsham, Me. Threadless nut. No. 1,378,770; May 17; v. 286; p. 566.
- Downey, John F., assignor to Universal Ash Tray Company, Inc., Providence, R. I. Ash-tray. No. 1,372,124; Mar. 22; v. 284; p. 618.
- Downey, Millard J., Chicago, Ill. Attachment for billing-machines. No. 1,373,870; Apr. 5; v. 285; p. 96.
- Downey, Millard J., Chicago, Ill. Theft-signal for motor-vehicles. No. 1,392,869; Oct. 4.
- Downey, Richard F., assignor to Automatic Auto Jack Company, Milwaukee, Wis. Automobile-jack. No. 1,394,888; Oct. 25.
- Downey, Richard F., assignor of one-third to A. Leich and one-third to J. S. Berner, Milwaukee, Wis. Time-recorder. No. 1,395,400; Nov. 1.
- Downie, James H., San Antonio, Tex. Truss. No. 1,375,448; Apr. 19; v. 285; p. 503.
- Downie, Robert R., assignor to Keystone Driller Co., Beaver Falls, Pa. Tooth for steam-shovels. No. 1,399,337; Dec. 6.
- Downie, Robert M., assignor to Keystone Driller Company, Beaver Falls, Pa. Deep-well pump. No. 1,401,681; Dec. 27.
- Downing, Charles H., Evans, Colo. Articulator. No. 1,372,012; Mar. 22; v. 284; p. 597.
- Downing, Harold L. (See Kinkead, R. S., Willits, and Downing.)
- Downing, Hiram, Spokane, Wash. Self-feeder for grain-separators. No. 1,371,021; Mar. 8; v. 284; p. 286.
- Downing, Ira S., and E. S. Pearce, Indianapolis, Ind. Journal-lubricating device. No. 1,398,502; Nov. 20.
- Downing, Ira S., Indianapolis, Ind., assignor to Camel Company. Car-door. No. 1,374,494; Apr. 12; v. 285; p. 257.
- Downs, Charles R. (See Weiss, J. M., and Downs.)
- Downs, Charles R., Cliffside, N. J., assignor to The Barrett Company. Producing maleic acid. No. 1,374,720; Apr. 12; v. 285; p. 301.
- Downs, Charles R., Cliffside, N. J., assignor to The Barrett Company. Producing anthraquinone. No. 1,374,721; Apr. 12; v. 285; p. 301.
- Downs, Charles R., Cliffside, N. Y., assignor to The Barrett Company. Catalytic oxidation of naphthalene. No. 1,374,722; Apr. 12; v. 285; p. 301.
- Downs, Charles R., Cliffside, and R. S. Potter, Grantwood, N. J., assignor to The Barrett Company. Separation of meta and para cresols. No. 1,364,547; Jan. 4; v. 282; p. 97.
- Downs, George F., Buffalo, N. Y. Rotary furnace or kiln. No. 1,381,096; June 7; v. 287; p. 148.
- Downs, Michael H., Birmingham, Wash. Chimney-protector. No. 1,370,199; Mar. 1; v. 284; p. 84.
- Downs, Richard, *et al.* (See Howell, Henry M., assignor.)
- Downse, Richard, Chicago, Ill. Clothes-wringer attachment for bathtubs. No. 1,382,415; June 21; v. 287; p. 508.
- Dowsett, Charles E., Derby, England. Spring-mattress. No. 1,367,950; Feb. 8; v. 283; p. 267.



## Alphabetical list of patentees—Continued.

- Dowson, Joseph, Honolulu, Territory of Hawaii, assignor to Libby, McNeill & Libby of Honolulu, Limited. Fine-apple-fleshing machine. No. 1,370,634; Mar. 8; v. 284; p. 213.
- Doxford, Robert P. (See Keller, Karl O., assignor.)
- Doxsee, George W. (See Hamilton, A. M., and Doxsee.)
- Doyle, Albert E. (See Wallace, Frank W., assignor.)
- Doyle, Ashton H., Johnson City, Tenn. Trousers-stretcher. No. 1,396,735; Nov. 15.
- Doyle, Carrie, *et al.* (See Hale, R. J., and Doyle, assignors.)
- Doyle, Charles, San Francisco, Calif. Dentifrice-dispensing device. No. 1,375,954; Apr. 26; v. 285; p. 631.
- Doyle, Francis J., Chicago, Ill., assignor to N. V. Hayward. Engine. No. 1,390,281; Sept. 13; v. 290; p. 237.
- Doyle, Frank A., assignor to The Sharples Separator Co., West Chester, Pa. Forming bakers' mix. No. 1,387,693; Aug. 16; v. 289; p. 467.
- Doyle, Henry J., Lyndhurst, N. J. Sun-shield for automobiles. No. 1,372,492; Mar. 22; v. 284; p. 689.
- Doyle, James B., Cleveland, Ohio. Means for preventing offset in printing. No. 1,366,069; Jan. 18; v. 282; p. 475.
- Doyle, James S. (See Hedley, F., and Doyle.)
- Doyle, Joseph H., Auburn, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-channeling-machine. No. 1,399,753; Dec. 13.
- Doyle, Louis S., Austin, Tex. Orthopedic appliance. No. 1,401,056; Dec. 20.
- Doyle, Merrill W., St. Louis, Mo. Connecting device. No. 1,394,673; Oct. 25.
- Doyle, Silas T., and J. L. Dice, Caledonia, Ohio. Piston-ring assemblage. No. 1,392,308; Oct. 4.
- Doyle, Thomas G., Fall River, Mass. Adjustable bit. No. 1,398,070; Nov. 22.
- Doyle, William F., assignor of one-half to F. P. Stolte, Reedsburg, Wis. Gearing. No. 1,396,029; Nov. 8.
- Doyle, William T. (See Hale, R. J., and Doyle.)
- Doyle, William T., assignor to Sturtevant Mill Company, Boston, Mass. Apparatus for manufacturing acid phosphate or superphosphate. No. 1,383,911; July 5; v. 288; p. 135.
- Doyle, William T., assignor to Sturtevant Mill Company, Boston, Mass. Manufacturing acid phosphate or superphosphate. No. 1,383,912; July 5; v. 288; p. 135.
- Doyle, William T., assignor to Sturtevant Mill Company, Boston, Mass. Manufacturing acid phosphate or superphosphate. No. 1,401,527; Dec. 27.
- Doyne, Simon, and S. Kaval, New York, N. Y. Sweatband. No. 1,372,342; Mar. 22; v. 284; p. 660.
- Draback, John C. (See Welling, Matthew J., assignor.)
- Drabek, Charles, Cleveland, Ohio. Combined spring and lever suspension for vehicles. No. 1,393,095; Oct. 11.
- Drabenstott, Glenn H., Wooster, Ohio. Sawing and boring device. No. 1,377,961; May 10; v. 286; p. 360.
- Draenert, Johannes, Ellenburg, Germany, assignor to Robert Pariser, New York, N. Y. Toothbrush. No. 1,364,188; Jan. 4; v. 282; p. 28.
- Drachenberg, August T., Gulf, Tex. Mining sulfur. No. 1,401,593; Dec. 27.
- Dräger, Alexander B., Lübeck, Germany. Helmet and mask for use with respiratory apparatus. No. 1,395,948; Nov. 1.
- Dragner, Henry, and L. J. Harris, New York, N. Y. Phonograph-table. No. 1,388,243; Aug. 23; v. 289; p. 632.
- Dragon, Jess, assignor of one-half to W. A. Boro, Enaville, Idaho. Saw-handle. No. 1,385,671; July 26; v. 288; p. 705.
- Dragon, Louis, assignor of one-third to S. Reh and one-third to J. Reible, Philadelphia, Pa. Saw. No. 1,392,050; Sept. 27; v. 290; p. 730.
- Dragoris, Charles A., Cincinnati, Ohio. Radiator. No. 1,393,765; Oct. 18.
- Drachonovsky, Eugene, Milwaukee, Wis. Carbureter. No. 1,371,302; Mar. 15; v. 284; p. 402.
- Drake, A. W., Manufacturing Co. (See Gomber, George W., assignor.)
- Drake, Charles E., New York, N. Y. Ship-salvaging apparatus. No. 1,378,843; May 24; v. 286; p. 653.
- Drake, Charles W., Burkburnett, Tex. Gripping-tool. No. 1,366,122; Jan. 18; v. 282; p. 485.
- Drake, Elmer C., assignor of one-half to J. P. Teter, Indianapolis, Ind. Well-drilling apparatus. No. 1,390,025; Sept. 6; v. 290; p. 94.
- Drake, James C., Rochester, Minn., assignor to Sears, Roebuck and Company, New York, N. Y. Sound-box coupling for talking-machines. No. 1,369,793; Mar. 1; v. 284; p. 8.
- Drake, James C., Rochester, Minn., assignor to Sears, Roebuck and Company, Chicago, Ill. Sound-box mounting for talking-machines. No. 1,385,118; July 19; v. 288; p. 517.
- Drake, James L., Bangor, Mich. Spark-plug. No. 1,367,361; Feb. 1; v. 283; p. 95.
- Drake, Le Roy, Chicago, Ill. Fuse-wire reel. No. 1,374,368; Apr. 12; v. 285; p. 232.
- Drake, Lewis R. (See Smith, Walter S., assignor.)
- Drake, Tom, Broadheath, assignor to Linotype and Machinery Limited, London, England. Keyboard mechanism of typographical composing and other key-controlled machines. No. 1,398,092; Nov. 22.
- Drake, W. L. (See Shevlin, Miles, assignor.)
- Drake, Warren C., *et al.* (See Schmidt, Herman, assignor.)
- Drake, Warren C., Inwood, N. Y. Fuel-burning method and furnace. No. 1,391,767; Sept. 27; v. 290; p. 672.
- Drake, Warren C., Inwood, N. Y. Furnace. No. 1,400,036; Dec. 13.
- Drake, Whittlesey A., Petroleum, Ohio. Tank-band saddle. No. 1,390,511; Sept. 13; v. 290; p. 282.
- Drakes Limited. (See Walker, Alexander, assignor.)
- Drane, Merritt, and H. W. Stone, Louisville, Ky. Petcock-operating device. No. 1,367,867; Feb. 8; v. 283; p. 252.
- Draney, Joseph R., Ridgewood, N. J., assignor, by mesne assignments, to Bitoslag Paving Company, New York, N. Y. Pavement. No. 1,364,620; Jan. 4; v. 282; p. 111.
- Draney, Joseph R., Ridgewood, N. J., assignor, by mesne assignments, to Bitoslag Paving Company, New York, N. Y. Paving mixture and making the same. No. 1,364,621; Jan. 4; v. 282; p. 111.
- Draney, Joseph R., New York, N. Y., and L. M. Law, Baltimore, Md., assignors, by mesne assignments, to Bitoslag Paving Company, New York, N. Y. Paving composition. No. 1,364,622; Jan. 4; v. 282; p. 111.
- Drange, Carl E., Plainfield, N. J., assignor to I. Scott and D. J. Scott, executors of the estate of Walter Scott, deceased. Means for attaching printing-plates to cylinders. No. 1,373,656; Apr. 5; v. 285; p. 53.
- Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Removable closure for metallic containers. No. 1,381,704; June 14; v. 287; p. 314.
- Draper Corporation. (See Abbott, Harry T., assignor.)
- Draper Corporation. (See Cunniff, Edward A., assignor.)
- Draper Corporation. (See Cunniff, Edward A. and J. V., assignors.)
- Draper Corporation. (See Johnston, Samuel C., assignor.)
- Draper Corporation. (See Nichols, Herbert, assignor.)
- Draper Corporation. (See Nutting, Charles E., assignor.)
- Draper Corporation. (See Osgood, Dana, assignor.)
- Draper Corporation. (See Rhoades, Alonzo E., assignor.)
- Draper Corporation. (See Snow, Isaac, assignor.)
- Draper Corporation. (See Stafford, Alfred E., assignor.)
- Draper Corporation. (See Stimpson, Edward S., assignor.)
- Draper Corporation. (See Stone, Melvin L., assignor.)
- Draper Corporation. (See Taranto, John, assignor.)
- Draper Corporation. (See Tinkham, Eugene L., assignor.)
- Draper Corporation. (See Trembley, Ulysse N., assignor.)
- Draper Corporation. (See Youngquist, Henry W., assignor.)
- Draper, George E., Pittsburg, Kans. Tire-valve. No. 1,392,923; Oct. 11.
- Draper, John. (See Freeze, Green, assignor.)
- Draper Manufacturing Company, The. See Draper, Charles T., assignor.)
- Draper, Talbert A., Richlands, Va. Card-holder for freight-cars. No. 1,370,635; Mar. 8; v. 284; p. 213.
- Draper, Thomas B., Detroit, Mich. Combination desk and bed. No. 1,366,368; Jan. 25; v. 282; p. 576.
- Draper, Thomas B., Detroit, Mich. Combined couch and crib. No. 1,366,906; Feb. 1; v. 283; p. 5.
- Draper, Thomas B., Oakland, Calif. Combination table and bed. No. 1,375,449; Apr. 19; v. 285; p. 503.
- Dratschke, Hans, Brooklyn, N. Y. Game apparatus. No. 1,374,991; Apr. 19; v. 285; p. 414.
- Draver, Emil R., Richmond, Ind. Liquid-feed regulator. No. 1,364,869; Jan. 11; v. 282; p. 203.
- Draver, Emil R., Richmond, Ind. Feed-regulator. No. 1,369,968; Mar. 1; v. 284; p. 41.
- Draver, Emil R., Richmond, Ind. Disk wheel. No. 1,371,077; Mar. 8; v. 284; p. 296.
- Draver, Emil R., Richmond, Minn. Feed-regulator. No. 1,372,869; Mar. 29; v. 284; p. 804.
- Draver, Emil R., Richmond, Ind. Disk wheel. No. 1,378,332; May 17; v. 286; p. 482.
- Draver, Emil R., Richmond, Ind. Tire-carrier. No. 1,379,297; May 24; v. 286; p. 738.
- Draver, Emil R., Richmond, Ind. Exhaust cut-out. No. 1,396,410; Nov. 8.
- Draver, Emil R., Richmond, Ind. Feeding device. No. 1,400,668; Dec. 20.
- Dray, Howard T. R., Boulac, Cairo, Egypt. Anchoring means. No. 1,388,031; Aug. 16; v. 289; p. 534.
- Dreber, Ernest A., Newark, N. J. Box. No. 1,371,776; Mar. 15; v. 284; p. 495.
- Drechsel, Emil A., assignor to Firm of Albin Drechsel Sohne, Gornsdorf, Germany. Framework knitted fabric. No. 1,375,575; Apr. 19; v. 285; p. 527.
- Drechsel, George H. (See Stoll, G. W., and Drechsel.)
- Drechsler, John A., Hillsdale, Mich. Shoe-retainer. No. 1,392,628; Oct. 4.
- Dredde, Alexander, *et al.* (See Threet, Preston E., assignor.)
- Drefs, Edward, Milwaukie, Oreg. Folding bed. No. 1,400,734; Dec. 20.
- Dreher, Albert J., assignor to The American Laundry Machinery Company, Norwood, Ohio. Safety device for pressing-machines. No. 1,392,051; Sept. 27; v. 290; p. 730.
- Dreher, John, and L. A. Olmschenk, Mizpah, Minn. Combination lifting-jack and tire expander and contractor. No. 1,393,271; Oct. 11.
- Dreier, Dominick, Livingston, Mont. Valve. No. 1,372,125; Mar. 22; v. 284; p. 618.



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- Dreiling, Herman J. (See Brungardt, John J., A. J., G. H., and Dreiling.)
- Dresbach, Mary, New Haven, Conn. Brassière. No. 1,385,672; July 26; v. 288; p. 705.
- Dresner, Samuel, Chicago, Ill. Frame for traveling-bags. No. 1,384,433; July 12; v. 288; p. 293.
- Dresser, Frank G., Providence, R. I. Rat-trap. No. 1,382,416; June 21; v. 287; p. 508.
- Dressler, Philip, Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln. No. 1,384,434; July 12; v. 288; p. 293.
- Dressler, Philip d'H., London, England. Method of and means for supporting tiles, more especially while subject to heat treatment. No. 1,368,219; Feb. 8; v. 283; p. 319.
- Dressler, Philip d'H., Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln. No. 1,366,369; Jan. 25; v. 282; p. 576.
- Dressler, Philip d'H., Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln and operating same. No. 1,369,330; Feb. 22; v. 283; p. 621.
- Dressler, Philip d'H., Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln with sectional combustion-chambers. No. 1,384,435; July 12; v. 288; p. 294.
- Dressler, Philip d'H., Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Burner for tunnel-kilns. No. 1,385,986; Aug. 2; v. 289; p. 4.
- Dreux, Alexander H., Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada. Press. No. 1,364,919; Jan. 11; v. 282; p. 212.
- Drevet, Emile, Montreal, Quebec, Canada. Internal-combustion engine. No. 1,378,333; May 17; v. 286; p. 482.
- Drevitson, Carl B., Somerville, assignor of one-half to S. Collinson, Boston, Mass. Skate. No. 1,371,608; Mar. 15; v. 284; p. 463.
- Drevitson, Carl B., Somerville, assignor of one-half to S. Collinson, Boston, Mass. Skate. No. 1,371,609; Mar. 15; v. 284; p. 464.
- Drew, Clayton L., and H. De Haven, Jr., San Francisco, Calif., assignors, by mesne assignments, to Twisted Wire & Steel Co. Wire-stretching device. No. 1,369,409; Feb. 22; v. 283; p. 637.
- Drew Electric and Manufacturing Company. (See Schwarz, Paul G., assignor.)
- Drew, Fred, *et al.* (See Poole, John H., assignor.)
- Drew, Harold L., Trinidad, Colo. Medicine-cabinet. No. 1,375,901; Apr. 26; v. 285; p. 621.
- Drew, Harry A., West New York, N. J., assignor, by mesne assignments, to Coin Device and Signal Co. Inc., New York, N. Y. Coin collecting, registering, and change-delivering apparatus. No. 1,384,436; July 12; v. 288; p. 294.
- Drew, Herbert H., Waterloo, Wis. Coupling. No. 1,380,468; June 7; v. 287; p. 27.
- Drew, John W., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo. Pump-valve. No. 1,376,863; May 3; v. 286; p. 92.
- Drew, John W., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo. Lubricating device for pump-pistons. No. 1,390,680; Sept. 13; v. 290; p. 318.
- Drew, Joseph A., Cascade, Iowa. Silo-truing device. No. 1,399,717; Dec. 6.
- Drew, William F., San Francisco, Calif. Selective roller filing-cabinet. No. 1,375,493; Apr. 19; v. 285; p. 511.
- Drew, William F., and B. V. Korvin-Kroukovsky, San Francisco, Calif. Planetary transmission. No. 1,396,821; Nov. 15.
- Drewes, Johannes, Gideon, Netherlands. Punching-machine. No. 1,380,542; June 7; v. 287; p. 41.
- Drews, Julius O., London, England. Nut-cracking machine. No. 1,379,540; May 24; v. 286; p. 785.
- Drewsen, Viggo, Brooklyn, N. Y. Production of acetone by distillation of sodium acetate, &c. No. 1,385,866; July 26; v. 288; p. 744.
- Drexel, William R. (See Henderson, Daniel D., assignor.)
- Dreyer, Alfred J., assignor to Pawling & Harnischfeger Co., Milwaukee, Wis. Electric system. No. 1,396,101; Nov. 8.
- Dreyfoos, Alexander W., Mount Vernon, N. Y. Photographic drying-machine. No. 1,385,365; July 26; v. 288; p. 642.
- Dreyfus, Henry, Basel, Switzerland. Making acetic anhydrid. No. 1,368,789; Feb. 15; v. 283; p. 478.
- Dreyfus, Henry, London, England. Manufacture of solutions, preparations, or compositions having a basis of cellulose acetate. No. 1,395,401; Nov. 1.
- Dreyfus, Max D., New York, N. Y. Clinical thermometer. No. 1,391,881; Sept. 27; v. 290; p. 696.
- Orgac, Charles, Port Lavaca, Tex. Sorghum-cutter. No. 1,381,065; June 7; v. 287; p. 143.
- Driggers, Henry A. (See Gilbert, John H., assignor.)
- Driggs, Louis L., New York, N. Y. Semi-automatic gun. No. 1,393,353; Oct. 11.
- Drill, Charles, St. Louis, Mo. Internal-combustion engine. No. 1,375,902; Apr. 26; v. 285; p. 621.
- Drill, Daniel C., Greenville, Ohio. Transmission and steering mechanism for farm-tractors. No. 1,395,668; Nov. 1.
- Dringman, Daniel, Portland, Oreg. Nut-lock. No. 1,371,742; Mar. 15; v. 284; p. 489.
- Drinker, Philip. (See Gault, Henry, assignor.)
- Drinker, Richard C., Barnstable, Mass. Pyrometric method and apparatus. No. 1,367,026; Feb. 1; v. 283; p. 29.
- Driscoll, Dennis L., Coalinga, assignor of one-half to Bunting Iron Works, San Francisco, Calif. Fishing-tool and support. No. 1,371,078; Mar. 8; v. 284; p. 297.
- Driscoll, Dennis L., Coalinga, assignor of one-half to Bunting Iron Works, San Francisco, Calif. Fishing appliance for use in drilling operations. No. 1,393,096; Oct. 11.
- Driscoll, Dennis L., Coalinga, assignor of one-half to Bunting Iron Works, San Francisco, Calif. Fishing-tool for use in drilling operations. No. 1,394,071; Oct. 18.
- Driscoll, Robert E., Omaha, Nebr., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-crossing signal. (Reissue.) No. 15,023; Jan. 11; v. 282; p. 352.
- Drissler, Frederick, New York, N. Y. Safety-clasp for pins, buttons, and the like. No. 1,368,124; Feb. 8; v. 283; p. 300.
- Driver-Harris Company. (See Callomon, Clarence B., assignor.)
- Driver-Harris Company. (See Henderson, John C., assignor.)
- Driver-Harris Company. (See Hunter, Matthew A., assignor.)
- Driver-Harris Company. (See Major, Ralph M., assignor.)
- Driver, William D., Baltimore, Md. Headrest for barber-chairs. No. 1,371,201; Mar. 8; v. 284; p. 319.
- Driver, William J., Chicago, Ill. Burglar and fire alarm. No. 1,377,324; May 10; v. 286; p. 237.
- Dry, John A., assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo. Short-circuiting segments for electric motors. No. 1,373,314; Mar. 29; v. 284; p. 893.
- Droesch, C. J. (See Cottoman, Richard C., assignor.)
- Droitcour, Michael A., Delphos, Ohio. Printing-press. No. 1,380,469; June 7; v. 287; p. 27.
- Droll, Joseph W., Oakland, Calif. Work-supporting table. No. 1,372,870; Mar. 29; v. 284; p. 804.
- Droll, Joseph W., Oakland, Calif. Automatic variable-speed mechanism. No. 1,372,871; Mar. 29; v. 284; p. 805.
- Droll, Joseph W., Oakland, Calif. Intermittent-movement mechanism for mattress-sewing machines. No. 1,376,517; May 3; v. 283; p. 26.
- Drolshammer, Gustav, Hamar, assignor of one-half to I. Drolshammer, Drammen, Norway. Adjustable brake arrangement operated by compressed fluid adapted to be used in railway-trains or the like. No. 1,401,325; Dec. 27.
- Drolshammer, Ivar. (See Drolshammer Gustav, assignor.)
- Dronsfield, James, Oldham, England. Means for applying garnett or like wire to rollers or cylindrical surfaces. No. 1,398,716; Nov. 29.
- Droppelman, William J., McWhorter, W. Va. Gas casing head. No. 1,398,093; Nov. 22.
- Dros, Cornelius P., Amsterdam, Netherlands. Trawling and like fishing apparatus. No. 1,388,414; Aug. 23; v. 289; p. 668.
- Droin, Alfred, G. J., and H. B., New York, N. Y. Display device. No. 1,371,079; Mar. 8; v. 284; p. 297.
- Drosin, George J. (See Drosin, Alfred, G. J., and H. B.)
- Drosin, Henry B. (See Drosin, Alfred, G. J., and H. B.)
- Drotar, John, Washington, D. C. Direction-indicator for automobiles. No. 1,397,801; Nov. 22.
- Drown, Alfred E., Westminster, London, England. Glazing system. No. 1,377,673; May 10; v. 286; p. 303.
- Drowns, Edmond E., assignor to The National Acme Company, Cleveland, Ohio. Reversible tap and die holder. No. 1,401,594; Dec. 27.
- Drowns, Irvin, assignor to The Timken Roller Bearing Company, Canton, Ohio. Tool-holder. No. 1,375,785; Apr. 26; v. 285; p. 598.
- Drozd, Wicenty, assignor of one-half to E. Borowski, Cleveland, Ohio. Floor scrubbing and mopping machine. No. 1,384,124; July 12; v. 288; p. 229.
- Drozdynski, Stanislaus T., Toledo, Ohio. Flexible ladder-support. No. 1,395,563; Nov. 1.
- Drozeski, Julius R., Erie, Pa. Bathtub-fixture. No. 1,364,920; Jan. 11; v. 282; p. 212.
- Druar, Frank J., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,374,066; Apr. 5; v. 285; p. 133.
- Druar, Frank J., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,384,309; July 12; v. 288; p. 269.
- Drucker, Samuel and W. Sleck, Jr., Chicago, Ill. Making catalytic material. No. 1,375,368; Apr. 19; v. 285; p. 487.
- Drucker, William J., Woodhaven, assignor, by mesne assignments, to National Mayonnaise Machine Company, Inc., Brooklyn, N. Y. Coupling. No. 1,397,370; Nov. 15.
- Druva, John T., Longmeadow, Mass., assignor to Henry Hyman & Co., Inc., New York, N. Y. Portable electric light. (Reissue.) No. 15,176; Aug. 9; v. 289; p. 366.
- Druva, John T., Longmeadow, Mass., assignor to Henry Hyman & Co., Inc., New York, N. Y. Portable electric light. (Reissue.) No. 15,249; Dec. 20.



*Alphabetical list of patentees—Continued.*

- Drumb, John, assignor to McKinnon Dash Company, Buffalo, N. Y. Bumper for automobiles. No. 1,377,814; May 10; v. 286; p. 331.
- Drumb, John, assignor to McKinnon Dash Company, Buffalo, N. Y. Bumper for automobiles. No. 1,377,815; May 10; v. 286; p. 331.
- Drumb, John, assignor to McKinnon Dash Company, Buffalo, N. Y. Automobile-bumper. No. 1,377,816; May 10; v. 286; p. 332.
- Drumman, Jasper R. and C. Gladly, Rosemont, W. Va. Switch stand and lock. No. 1,371,202; Mar. 8; v. 284; p. 320.
- Drumman, Jasper R., and T. Mieczeski, Rosemont, W. Va. Aeroplane safety device. No. 1,371,203; Mar. 8; v. 284; p. 320.
- Drummond, Alexander C., Ilion, N. Y. Gun-cleaner. No. 1,373,999; Apr. 5; v. 285; p. 121.
- Drury, Frederick A., Jersey City, N. J., assignor to P. Lorrillard Company, New York, N. Y. Sheet-feeding apparatus. No. 1,394,613; Oct. 25.
- Dry, Paul K., *et al.* (See Johnson, Charles H., assignor.)
- Drybrough, Thomas B., Kensington, London, England. Coin-freed apparatus. No. 1,400,037; Dec. 13.
- Dryen, Archille, Londerzeel, Belgium. Spinning nitrocellulose solutions. No. 1,377,761; May 10; v. 286; p. 320.
- Dryer, George W., Gardiner, N. Y., assignor, by mesne assignments, to American Motor Body Company, Detroit, Mich. Car-seat. No. 1,389,130; Aug. 30; v. 289; p. 863.
- Drysdale, Henry, London, England. Paper container. No. 1,397,756; Nov. 22.
- Drysdale, Robert, Greenock, Scotland. Necktie-holder. No. 1,372,493; Mar. 22; v. 284; p. 689.
- Dual Auto Visor Shield Company. (See Roberts, Frank W., assignor.)
- Dubben, Harry F., and F. B. Easton, New York, N. Y. Muffler. No. 1,388,554; Aug. 23; v. 289; p. 694.
- Dubbs, Carbon P., Wilmette, Ill. Converting hydrocarbons. No. 1,392,629; Oct. 4.
- Dube, Harry S., New York, N. Y. Tire-cover. No. 1,398,259; Nov. 29.
- Dube, Peter C., Escanaba, Mich. Mechanical massaging device. No. 1,364,623; Jan. 4; v. 282; p. 111.
- Dubee, Adelard J., Glens Falls, N. Y. Sash-tightener. No. 1,374,067; Apr. 5; v. 285; p. 134.
- Dubicki, Kapetan S., and P. J. Miller, Battle Creek, Mich. Brushing and scrubbing machine. No. 1,379,806; May 31; v. 286; p. 908.
- Dubilier Condenser Co. (See Dubilier, William, assignor.)
- Dubilier, Philip. (See Dubilier, William and P.)
- Dubilier, William, New York, N. Y. Electrical condenser. No. 1,391,672; Sept. 27; v. 290; p. 653.
- Dubilier, William, New York, N. Y. Variable condenser. No. 1,396,030; Nov. 8.
- Dubilier, William, New York, N. Y., assignor, by mesne assignments, to Dubilier Condenser Co., Inc. Antenna-shortening device. No. 1,391,673; Sept. 27; v. 290; p. 653.
- Dubilier, William and P., New York, N. Y., assignors to Sperry Gyroscope Company. Radiosignaling apparatus. No. 1,382,177; June 21; v. 287; p. 462.
- Dubin, Charles, Philadelphia, Pa. Hand-tool for forming ornamental loops. No. 1,373,059; Mar. 29; v. 284; p. 841.
- Dubisky, Michael J., Rockford, Ill. Guard for punch-presses. No. 1,393,510; Oct. 11.
- Du Bois, Daniel S., Portland, Oreg. Manifold for internal-combustion motors. No. 1,393,887; Oct. 18.
- Du Bois, John T., and F. B. Harter, Detroit, Mich. Paper-clip. No. 1,395,803; Nov. 1.
- Dubois, Joseph N. (See Bourgeois, Victor L. J., assignor.)
- Dubois, Louis L., Asnières, France. Tractor. No. 1,398,683; Nov. 29.
- Du Bois Rubber & Tube Company. (See Lightfoot, Liles H., assignor.)
- Du Bois, Thomas R., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Starting and lighting system. No. 1,367,804; Feb. 8; v. 283; p. 239.
- Dubreucq, Fénelon. (See Heryngel, S., and Dubreucq.)
- Du Brie, Stanley R., assignor to E. H. Kramer, Detroit, Mich. Tractor. No. 1,385,249; July 19; v. 288; p. 542.
- Dubrow, Frederick, Sausalito, Calif. Artificial fish-bait. (Reissue.) No. 15,204; Oct. 11.
- Du Brul, Davila S., Cincinnati, assignor to J. E. Davis, Columbus, Ohio. Wrapper-sealing machine. No. 1,380,543; June 7; v. 287; p. 42.
- Duby, John F., Boston, Mass. Valve-spring lifter. No. 1,365,468; Jan. 11; v. 282; p. 318.
- Duca, Luigi. (See Bonomini, B., and Duca.)
- Duca, Luigi, Turin, assignor to Società Anonima Manifattura Luigi Duca, Busta Arsizio, Italy. Automatic clutch. No. 1,375,576; Apr. 19; v. 285; p. 527.
- Duca, Sante. (See Blando, F., and Duca.)
- Du Charmé, William S., Cleveland, Ohio. Portable pipe-vice stand. No. 1,393,766; Oct. 18.
- Duchesne, Ernest, Schenectady, N. Y. Piston toggle mechanism. No. 1,365,667; Jan. 18; v. 282; p. 396.
- Duchesne, Ernest, Montreal, Quebec, Canada. Staybolt-fastening. No. 1,386,691; Aug. 9; v. 289; p. 215.
- Duck, Louis F., De Kalb, Ill. Exploding toy bomb. No. 1,388,807; Aug. 23; v. 289; p. 744.
- Ducker Sectional Building Corporation. (See Ducker, William M., assignor.)
- Ducker, William M., assignor to Ducker Sectional Building Corporation, New York, N. Y. Retaining device for window-sash. No. 1,374,556; July 12; v. 288; p. 318.
- Duckstine, Julius, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,368,491; Feb. 15; v. 283; p. 420.
- Duckstine, Julius, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,368,492; Feb. 15; v. 283; p. 420.
- Duckstine, Julius, assignor to Underwood Computing Machine Company, New York, N. Y. Computing machine. No. 1,376,518; May 3; v. 283; p. 26.
- Duckwall, Herbert R., Indianapolis, Ind. Molding. No. 1,378,664; May 17; v. 286; p. 546.
- Duckworth, John T., assignor to F. M. Rapp, Philadelphia, Pa. Heater. No. 1,374,836; Apr. 12; v. 285; p. 323.
- Ducommon, Paul U., Kansas City, Mo. Fertilizer composition. No. 1,368,249; Feb. 15; v. 283; p. 372.
- Ducondu, Paul, Montreal, Quebec, Canada. Device for loading and unloading vehicles. No. 1,369,011; Feb. 22; v. 283; p. 560.
- Duda, Oswald, Houston, Tex., assignor to Reed Roller Bit Company. Wrench. No. 1,384,800; July 19; v. 288; p. 450.
- Dudas, Andrew. (See Szucs, Stephen, assignor.)
- Dudas, Andrew, Homestead, Pa. Life-buoy. No. 1,375,494; Apr. 19; v. 285; p. 511.
- Dudash, Isidore. (See Dudash, Jacob and I.)
- Dudash, Jacob and I., Lawrence, Mass. Gage for looms. No. 1,392,125; Sept. 27; v. 290; p. 745.
- Dudek, Franciszek, Johnstown, Pa. Combination-bed. No. 1,377,190; May 10; v. 286; p. 210.
- Dudek, Mark, Ralphton, Pa. Flexible-wall construction. No. 1,371,149; Mar. 8; v. 284; p. 310.
- Duden, George A. (See Grubman, L. L., and Duden.)
- Dudley, Arthur J., Jersey City, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,394,614; Oct. 25.
- Dudley, Edward F., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Bed-motion. No. 1,367,466; Feb. 1; v. 283; p. 116.
- Dudley, George M., Tacoma, Wash. Kindling-chopper. No. 1,364,737; Jan. 4; v. 282; p. 133.
- Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,390,512; Sept. 13; v. 290; p. 283.
- Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,395,669; Nov. 1.
- Dudley, Howard M., Philadelphia, Pa. Dyeing-machine. No. 1,397,860; Nov. 22.
- Dudley, James R., Bessemer, Ala. Railway-switch-operating mechanism. No. 1,397,408; Nov. 15.
- Dudley, Samuel W., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control device. No. 1,400,669; Dec. 20.
- Dudley, Samuel W., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake device. No. 1,400,670; Dec. 20.
- Dudley, Walter J. (See Price, T. H., White, and Dudley.)
- Dudley, Walter J., Brooklyn, assignor of one-half to H. S. Blackmore, Mount Vernon, N. Y. Safety device for fluid-fuel outlets. No. 1,368,707; Feb. 15; v. 283; p. 462.
- Dudynsky, Antony, New York, N. Y. Joint for structures. No. 1,395,402; Nov. 1.
- Duelks, Jacob E., Boston, Mass. Loom. No. 1,388,808; Aug. 23; v. 289; p. 744.
- Dueker, Carl, Cooper township, Webster county, Iowa. Land-vehicle. No. 1,368,027; Feb. 8; v. 283; p. 281.
- Dueker, Carl, Cooper township, Webster county, Iowa. Gathering mechanism for corn-harvesting machines. No. 1,368,028; Feb. 8; v. 283; p. 281.
- Duer, Solon, St. Paris, Ohio. Hand warm or grip for steering-wheels. No. 1,385,527; July 26; v. 288; p. 675.
- Duerst, William B., Pine Lawn, assignor of one-half to F. Wodicka, St. Louis, Mo. Dirigible headlight. No. 1,375,138; Apr. 19; v. 285; p. 444.
- Dufaux, Charles F., Geneva, Switzerland. Magneto-electric generator for lighting vehicles. No. 1,385,119; July 19; v. 288; p. 517.
- Dufek, Louis, Rainier, Oreg. Headlight-lens. No. 1,372,872; Mar. 29; v. 284; p. 805.
- Dufek, Louis, Chehalis, Wash. Approachway for platforms of cars. No. 1,387,134; Aug. 9; v. 289; p. 304.
- Duff, Frank C. (See Toll, H. H., and Duff.)
- Duff, John G. (See Dodge, H. D., and Duff.)
- Duff, John H., Kansas City, Mo. Car-brake. No. 1,384,454; July 12; v. 288; p. 297.
- Duff Manufacturing Company, The. (See Kopf, John C., assignor.)
- Duff Manufacturing Company, The. (See Schwerlin, Frank H., assignor.)
- Duff, Thomas P., Jersey City, N. J. Floral-display rack. No. 1,369,089; Feb. 22; v. 283; p. 575.
- Duffee, Rebecca J., Pittsburgh, Pa. Wire hair-frame. No. 1,371,991; Mar. 15; v. 284; p. 536.
- Duffek, Josef, assignor to Firm of Oesterreichische Waffen-fabrikgesellschaft, Steyr, Upper Austria, Austria. Gun-lock for automatic firearms. No. 1,387,369; Aug. 9; v. 289; p. 351.
- Duffey, Homer N., Jr. (See Thompson, George H., assignor.)



## Alphabetical list of patentees—Continued.

- Dufford, Walter, Bartlesville, Okla. Strap-wrench. No. 1,396,411; Nov. 8.
- Duffy, Charles H., Chevy Chase, Md. Clevis-antirattling and pin-retaining attachment. No. 1,392,561; Oct. 4.
- Duffy, James P. B. (See Murphy, Thomas J., assignor.)
- Duffy, James U., Cleveland, Ohio. Car-stop. No. 1,379,393; May 24; v. 286; p. 758.
- Duffy, James U., assignor to The Friction Car Stop Company, Cleveland, Ohio. Car-stop shoe. No. 1,385,523; July 26; v. 288; p. 675.
- Duffy, Jesse A., Dallas, Tex. Abrading element for tire-patch containers. No. 1,364,429; Jan. 4; v. 282; p. 74.
- Duffy, Thomas I., assignor to Nels Gross, Chicago, Ill. Disk wheel for vehicles. No. 1,365,896; Jan. 18; v. 282; p. 441.
- Duffy, Thomas I., Oak Park, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,373,954; Apr. 5; v. 285; p. 112.
- Duffy, Thomas I., assignor to W. S. Burgess, Chicago, Ill. Spring suspension for vehicles. No. 1,381,623; June 14; v. 287; p. 298.
- Dufeld, Henry W. (See Barber, Constance L., assignor.)
- Du Ford, Peter, Ontario, Oreg. Shock-absorber. No. 1,378,665; May 17; v. 286; p. 546.
- Du Frane, John L., Oakland, Calif. Vehicle-signal. No. 1,382,767; June 28; v. 287; p. 629.
- Duggan, John A., Battle Creek, Mich. Sanitary tooth-brush-holder. No. 1,370,793; Mar. 8; v. 284; p. 243.
- Duggan, Joseph, Detroit, Mich. Tow-line. No. 1,386,052; Aug. 2; v. 289; p. 18.
- Duhon, Jules, Goss, assignor of one-half to E. H. White, De Soto parish, La. Deep-well pump. No. 1,377,762; May 10; v. 286; p. 320.
- Duhon, Jules, Goss, assignor of one-half to E. H. White, De Soto parish, La. Deep-well pump. No. 1,377,763; May 10; v. 286; p. 321.
- Duke, Joseph E., Birmingham, Ala. Coupling for mine-cars. No. 1,401,890; Dec. 27.
- Dukes, Sandy, Beaumont, Tex. Grain-car. No. 1,371,877; Mar. 15; v. 284; p. 514.
- Dula, Caleb C., assignor to Liggett & Myers Tobacco Company, New York, N. Y. Plug-tobacco. No. 1,365,969; Jan. 18; v. 282; p. 456.
- Du Lac, E., *et al.* (See Auger, Joseph T., assignor.)
- Du Lane, James A., assignor of one-half to C. R. Nelson, Seattle, Wash. Electrically-operated float-governed liquid control. No. 1,376,519; May 3; v. 286; p. 26.
- Dulaney, Paul L., St. Louis, Mo. Oil-burner. No. 1,376,864; May 3; v. 286; p. 93.
- Dull, Raymond W., La Grange, assignor to Link Belt Company, Chicago, Ill. Link for chain-belts. No. 1,394,979; Oct. 25.
- Dull, Raymond W., La Grange, assignor to Link Belt Company, Chicago, Ill. Link for chain-belts. No. 1,394,980; Oct. 25.
- Dull, Raymond W., La Grange, assignor to Link Belt Company, Chicago, Ill. Link for chain-belts. No. 1,396,031; Nov. 8.
- Dultmeier, Frank J., Manning, Iowa. Collapsible ship-ping-crate. No. 1,382,178; June 21; v. 287; p. 462.
- Dultmeier Manufacturing Company. (See Danielson, Arvid A., assignor.)
- Dumaine, Louis J., Montreal, Quebec, Canada. Electric hair-singer. No. 1,370,524; Mar. 8; v. 284; p. 190.
- Dumais, McKenzie, Hull, Quebec, Canada. Identifying means. No. 1,381,975; June 21; v. 287; p. 425.
- Dumanois, Emile P., Levallois-Perret, Seine, France. Carbureted-air distributor for explosion-engine starters. No. 1,396,322; Nov. 8.
- Dumas, William H., assignor of one-half to J. Moore, Lebanon, N. H. Loom attachment. No. 1,392,126; Sept. 27; v. 290; p. 745.
- Dumler, George. (See Albers, C. C., and Dumler.)
- Dumons, Jean A. L., Paris, France. Box for articles of perfumery. No. 1,370,294; Mar. 1; v. 284; p. 102.
- Dunajeff, Leonid, Moscow, Russia. Method and apparatus for transferring liquids from spaces of lower pressure to spaces of higher pressure. No. 1,367,308; Feb. 1; v. 283; p. 84.
- Dunand, Jean, Paris, France. Military helmet. No. 1,366,907; Feb. 1; v. 283; p. 5.
- Dunbar, Ernest W., assignor to Apsley Rubber Company, Hudson, Mass. Welt-strip and making same. No. 1,375,283; Apr. 19; v. 285; p. 472.
- Dunbar, Mahlon L., Norwalk, Ohio. Intensifier for spark-plugs. No. 1,366,251; Jan. 18; v. 282; p. 511.
- Dunbar, Thomas E., assignor of one-half to H. Crevasse and J. L. Hogan, Lakeland, Fla. Demountable rim. No. 1,389,345; Aug. 30; v. 289; p. 906.
- Duncan, Arthur L. (See Forry, Charles E., assignor.)
- Duncan, Blain, *et al.* (See Gable, Jacob W., assignor.)
- Duncan, Broughan G. (See Duncan, Curlaw and B. G.)
- Duncan, Charles, Montreal, Quebec, Canada. Electric switch construction. No. 1,401,891; Dec. 27.
- Duncan, Curlaw and B. G., Minneapolis, Minn. Tire-pressure device and gage for vulcanizing-molds. No. 1,391,374; Sept. 20; v. 290; p. 520.
- Duncan, David C. and R. C., Duluth, Minn. Cozy for portable gas-generators. No. 1,395,485; Nov. 1.
- Duncan, Hayes H., and C. C. Willoughby, Philadelphia, Pa. Lock and seal for car-doors. No. 1,398,094; Nov. 22.
- Duncan, J., Company. (See Judd, Charles T., assignor.)
- Duncan, James N., Detroit, Mich. Shipping-support for automobiles. No. 1,388,244; Aug. 23; v. 289; p. 633.
- Duncan, John N., assignor to himself, A. F. Brannberg, and J. C. Flannery, Boone, Iowa. Sleet-hammer. No. 1,380,544; June 7; v. 287; p. 42.
- Duncan, Joseph S., Chicago, Ill. Index-tab. No. 1,390,026; Sept. 6; v. 290; p. 94.
- Duncan, Joseph S., assignor to Addressograph Company, Chicago, Ill. Printing device. No. 1,375,683; Apr. 26; v. 285; p. 580.
- Duncan, Joseph T., Long Beach, Calif. Steering device for automobiles. No. 1,401,398; Dec. 27.
- Duncan, Robert H., Epping, near Sydney, New South Wales, Australia. Security box or case. No. 1,394,981; Oct. 25.
- Duncan, Russell C. (See Duncan David C. and R. C.)
- Duncan, Thomas C., Kansas City, Mo. Agricultural-implement frame. No. 1,389,296; Aug. 30; v. 289; p. 896.
- Duncan, Thomas S. (See Pierson, R. K., and Duncan.)
- Duncan, Thomas S. (See Pierson, Reginald K., and Duncan.)
- Duncan, Wayne A., Chicago, Ill. Kitchen-cabinet. No. 1,400,145; Dec. 13.
- Duncan, William M., Alton, Ill. Furnace. No. 1,365,668; Jan. 18; v. 282; p. 396.
- Duncan, William M., Alton, Ill. Chain grate. No. 1,365,669; Jan. 18; v. 282; p. 396.
- Duncan, William M., Alton, Ill. Furnace. No. 1,365,968; Jan. 18; v. 282; p. 456.
- Duncan, William M., Alton, Ill. Traveling-grate stoker. No. 1,395,486; Nov. 1.
- Duncanson, George, Jr., Jersey City, N. J. Printer's quoin. No. 1,375,495; Apr. 19; v. 285; p. 512.
- Duncanson, Vincent E., Lynchburg, Ohio. Spectacle-holder. No. 1,391,674; Sept. 27; v. 290; p. 654.
- Duncanson, Vincent E., Lynchburg, Ohio. Eyeglass-holder. No. 1,393,511; Oct. 11.
- Duncombe, Tyrrell H., Romeo, Mich. Rotary explosive-engine. No. 1,367,591; Feb. 8; v. 283; p. 198.
- Dundee, Fred, Portland, Oreg. Hoist. No. 1,369,331; Feb. 22; v. 283; p. 621.
- Dundon, Jess W. (See Throop, G. W., and Dundon.)
- Dundore, William H., Reading, Pa. Vehicle-wheel. No. 1,400,807; Dec. 20.
- Dunford and Elliott (Sheffield) Limited. (See Lloyd, Frederic, assignor.)
- Dungan, John E., Canton, Ohio, assignor of seven-sixteenths to W. S. Bryson, one-sixteenth to B. F. Bone, one-sixteenth to F. M. Howard, one-sixteenth to J. A. Schaub, one-sixteenth to A. C. Scroggins, Jr., one-sixteenth to H. J. Zink, and one-sixteenth to E. E. Koontz, Moundsville, W. Va. Machine for dispensing semisolid substances. No. 1,384,310; July 12; v. 288; p. 267.
- Dungan, Robert M., Santa Ana, Calif., assignor, by mesne assignments, of one-half to S. M. Dungan and one-half to M. E. Moore. Screw-propeller. No. 1,371,610; Mar. 15; v. 284; p. 464.
- Dungan, Samuel M., *et al.* (See Dungan, Robert M., as signor.)
- Dunham, Andrew A., Bainbridge, N. Y., assignor to The Casein Manufacturing Company. Dry alkali-metal silicate. No. 1,373,224; Mar. 29; v. 284; p. 875.
- Dunham, Andrew A., Bainbridge, N. Y., assignor to The Casein Manufacturing Company. Producing glues or cements. No. 1,391,768; Sept. 27; v. 290; p. 672.
- Dunham, Andrew A., Bainbridge, N. Y., assignor to The Casein Manufacturing Company. Preparing casein glues. No. 1,391,769; Sept. 27; v. 290; p. 672.
- Dunham, Andrew A., Bainbridge, N. Y., assignor to The Casein Manufacturing Company. Preparing casein glues. No. 1,391,770; Sept. 27; v. 290; p. 673.
- Dunham, Arthur L., New York, N. Y. Apparatus for and method of sterilizing milk-cans and other containers. No. 1,398,503; Nov. 29.
- Dunham, Charles A., St. Paul, Minn. Adjustable detector-bar support. No. 1,390,989; Sept. 20; v. 290; p. 441.
- Dunham, Charles W., Fairmont, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,380,783; June 7; v. 287; p. 88.
- Dunham, Charles W., Fairmont, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,380,784; June 7; v. 287; p. 88.
- Dunham, Charles W., Fairmont, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for the control of railway-switches. No. 1,396,562; Nov. 8.
- Dunham, Clayton A., Glencoe, Ill. Steam-trap. No. 1,373,225; Mar. 29; v. 284; p. 875.
- Dunham Company, The. (See Dunham, John R., assignor.)
- Dunham Company. (See Dunham, Ray E., assignor.)
- Dunham Company The. (See Hunter Robert M., assignor.)
- Dunham, Forrest T., Hoquiam, Wash. Shackle-hook. No. 1,381,405; June 14; v. 287; p. 257.
- Dunham, George W., Detroit, Mich. Declutching mechanism. No. 1,367,309; Feb. 1; v. 283; p. 85.
- Dunham, George W., assignor to The Millitor Corporation, New York, N. Y. Lubricating system. No. 1,399,943; Dec. 13.
- Dunham, George W., and L. C. Freeman, assignors to The Millitor Corporation, New York, N. Y. Axle construction for motor-vehicles. No. 1,396,102; Nov. 8.



*Alphabetical list of patentees—Continued.*

- Dunham, James W., Burnaby, British Columbia, Canada. Ground-sluicing apparatus. No. 1,380,642; June 7; v. 287; p. 60.
- Dunham, John C., Greenville, Ohio. Safety-razor. No. 1,384,691; July 12; v. 288; p. 348.
- Dunham, John R., assignor to The Dunham Company, Berea, Ohio. Implement scraper mechanism. No. 1,367,736; Feb. 8; v. 283; p. 226.
- Dunham, Milbourne K., assignor of one-third to C. Berg, and two-thirds to W. Klingberg, New York, N. Y. Heater. No. 1,384,746; July 19; v. 288; p. 439.
- Dunham, Ray E., assignor to Dunham Company, Berea, Ohio. Metallic wheel. No. 1,386,167; Aug. 2; v. 289; p. 41.
- Dunham, Thomas, Company. (See Davidson, George N., assignor.)
- Dunham, William, *et al.* (See Hyde, Elbert L., assignor.)
- Dunham, William, assignor of one-half to Columbia Chemical Company, Barborton, Ohio. Hand-truck. No. 1,365,232; Jan. 11; v. 282; p. 273.
- Dunham, William G., New Britain, Conn., assignor of one-half to W. J. Keith, Providence, R. I. Head for dispensing vessels. No. 1,391,771; Sept. 27; v. 290; p. 673.
- Dunham, William G., Maple Hill, Conn., assignor of one-half to W. J. Keith, Providence, R. I. Head for dispensing vessels. No. 1,391,772; Sept. 27; v. 290; p. 673.
- Dunham, William R., Jr. (See Lundie, John, assignor.)
- Dunham, William R., Jr., New Haven, Conn. Tie-plate. No. 1,372,126; Mar. 22; v. 284; p. 618.
- Dunhill, Alfred, London, England. Apparatus for seasoning and finishing tobacco-pipes. No. 1,383,193; June 28; v. 287; p. 710.
- Dunk, T. W. (See Macy, Barnett W., assignor.)
- Dunkelsberg, Louis, Brooklyn, N. Y. Spectacles. No. 1,374,287; Apr. 12; v. 285; p. 216.
- Dunkelberger, Milton S., Dayton, Ohio. Wind-clutch. No. 1,377,008; May 3; v. 286; p. 120.
- Dunkelberger, Milton S., Dayton, Ohio. Collapsible slip-on. No. 1,385,043; July 19; v. 288; p. 500.
- Dunkle, Wesley E., Contact, Nev. Diaphragm-pump. No. 1,389,635; Sept. 6; v. 290; p. 15.
- Dunkley Company. (See Dunkley, Samuel J., assignor.)
- Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Pitter-knife. No. 1,370,097; Mar. 1; v. 284; p. 64.
- Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Pitting-knife. No. 1,370,098; Mar. 1; v. 284; p. 65.
- Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Pitting-knife for pitting peaches or similar fruits. No. 1,370,099; Mar. 1; v. 284; p. 65.
- Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Peach-pitting tool. No. 1,374,288; Apr. 12; v. 285; p. 217.
- Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Paring and pitting knife. No. 1,374,289; Apr. 12; v. 285; p. 217.
- Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Pitter-knife. No. 1,374,290; Apr. 12; v. 285; p. 217.
- Dunkley, Samuel J., assignor to Dunkley Company, Kalamazoo, Mich. Mixing-tank. No. 1,374,291; Apr. 12; v. 285; p. 217.
- Dunkley, Samuel J., Oakland, Calif., assignor to Dunkley Company, Kalamazoo, Mich. Apparatus and process for peeling fruit and vegetables. No. 1,396,268; Nov. 8.
- Dunlap, Elon, Diamond Springs, Calif. Mount for plows and other tools. No. 1,375,577; Apr. 19; v. 285; p. 527.
- Dunlap, Guy W., *et al.* (See Corum, Adolphus H., assignor.)
- Dunlap, Harley M. (See Putnam, D. M., and Dunlap.)
- Dunlap, Harley M., Battle Creek, Mich. Pump. No. 1,390,513; Sept. 13; v. 290; p. 283.
- Dunlap, Lester G., Stockton, Calif. Digger-chain for ditch-digging machines. No. 1,397,679; Nov. 22.
- Dunlap, Lilburn J., *et al.* (See Corum, Adolphus H., assignor.)
- Dunlop, David, and J. D. Davis, Petersburg, Va. Auxiliary air-intake for internal-combustion engines. (Reissue.) No. 15,163; July 26; v. 288; p. 766.
- Dunlop Rubber Company, The. (See Heales, William H., assignor.)
- Dunlop Rubber Company, The. (See Macbeth, C., and Fellowes, assignors.)
- Dunlop Rubber Company, The. (See Macbeth, Colin, assignor.)
- Dunlop Tire & Rubber Corporation of America. (See Hardeman, William E., assignor.)
- Dunlop Tire and Rubber Goods Company. (See Burns, T. A., and Huether, assignors.)
- Dunn, Alfred J., Birmingham, England. Concrete and like structure. No. 1,375,903; Apr. 26; v. 285; p. 621.
- Dunn, Calvin R. (See Shults, H., and Dunn.)
- Dunn, Christopher W., Milwaukee, Wis. Locking device for automobiles. No. 1,382,179; June 21; v. 287; p. 462.
- Dunn, Clement E., Burlingame, Calif. Process of and apparatus for applying liquid to surfaces. No. 1,377,009; May 3; v. 286; p. 120.
- Dunn, David, Philadelphia, Pa. Milk-bottle support. No. 1,378,403; May 17; v. 286; p. 495.
- Dunn, Edmund L., assignor of one-third to J. P. Salmon and one-third to E. D. Fitzpatrick, Philadelphia, Pa. Bolt-reclaiming machine. No. 1,374,723; Apr. 12; v. 285; p. 301.
- Dunn, Edward L., Worcester, Mass. Chain-carrying attachment for motor-vehicles. No. 1,374,556; Apr. 12; v. 285; p. 269.
- Dunn, Edward T., San Francisco, Calif. Cover-support. No. 1,368,207; Feb. 8; v. 283; p. 316.
- Dunn, Emanuel W., Los Angeles, Calif. Oil-burner. No. 1,388,451; Aug. 23; v. 289; p. 676.
- Dunn, Felix E., Nanton, assignor of one-half to J. A. Nesbitt, Calgary, and one-half to S. B. Mitchell, Nanton, Alberta, Canada. Attachment for engines. No. 1,383,087; June 28; v. 287; p. 690.
- Dunn, Frank B., Conneaut, Ohio. Paving-brick. No. 1,397,505; Nov. 22.
- Dunn, Henry F., Indianapolis, Ind., assignor to Toledo Scale Company, Toledo, Ohio. Spring-scale. No. 1,369,090; Feb. 22; v. 283; p. 575.
- Dunn, John J., assignor of one-half to O. M. Fasano, Rochester, N. Y. Collar-band. No. 1,367,737; Feb. 8; v. 282; p. 227.
- Dunn, Joseph E., Providence, R. I. Cushioning device. No. 1,373,315; Mar. 29; v. 284; p. 893.
- Dunn, Louis, Minneapolis, Minn. Syringe attachment. No. 1,373,803; Apr. 5; v. 285; p. 82.
- Dunn Manufacturing Company. (See Dunn, William L., assignor.)
- Dunn Manufacturing Company. (See McKissick, William H., assignor.) (Reissue.)
- Dunn, Noble C., Little Rock, Ark. Sand-unloading device. No. 1,374,068; Apr. 5; v. 285; p. 134.
- Dunn, William B., Detroit, Mich. Brake-band construction. No. 1,381,976; June 21; v. 287; p. 425.
- Dunn, William H., Chicago, Ill. Toy aeroplane. No. 1,374,000; Apr. 5; v. 285; p. 121.
- Dunn, William H., Chicago, Ill. Removable refuse-catcher. No. 1,390,345; Sept. 13; v. 290; p. 249.
- Dunn, William H., Anderson, Ind. Automobile-steering-column lock. No. 1,396,508; Nov. 8.
- Dunn, William J., Montreal, Quebec, Canada. Internal-combustion engine. No. 1,377,877; May 10; v. 286; p. 343.
- Dunn, William L., assignor to Dunn Manufacturing Company, Oxnard, Calif. Well apparatus. No. 1,376,009; Apr. 26; v. 285; p. 642.
- Dunn, William L., assignor to Dunn Manufacturing Company, Oxnard, Calif. Well-elevator. No. 1,385,435; July 26; v. 288; p. 636.
- Dunn, William P., and J. W. Beresford, Paterson, N. J. Game apparatus. No. 1,372,873; Mar. 29; v. 284; p. 805.
- Dunne, Patrick, San Francisco, Calif. Arch-support. No. 1,396,323; Nov. 8.
- Dunnebie, Max. (See Winkler, A., and Dunnebie.)
- Dunnett, Harry L., assignor to Regal Manufacturing Company, Kansas City, Mo. Powder-dispensing box. No. 1,371,356; Mar. 15; v. 284; p. 414.
- Dunning, Hiram F., Turtleford, Saskatchewan, Canada. Toy. No. 1,393,512; Oct. 11.
- Dunning, William F., Washington, D. C. Loose-leaf binder. No. 1,398,422; Nov. 29.
- Dunstan, John H., and R. A. Davis, Slidell, La. Condenser and separator for wood-impregnating retorts. No. 1,374,069; Apr. 5; v. 285; p. 134.
- Dunstan, William E., Modesto, Calif. Valve-lifter. No. 1,398,456; Nov. 29.
- Dunsworth, George W., Houston, Tex. Pipe-perforator. No. 1,398,320; Nov. 29.
- Dunwoody, Thomas E. (See Geiger, C. H., and Dunwoody.)
- Dunwoody, Henry H. C., Washington, D. C. Cycloid propeller. No. 1,385,908; July 26; v. 288; p. 752.
- Duodisk Steel Wheel Corporation. (See Loughed, Victor, assignor.)
- Duparc, Louis, and C. Urfer, Geneva, Switzerland. Manufacture of peroxid of nitrogen. No. 1,366,773; Jan. 25; v. 282; p. 658.
- Dupaul, Young Optical Co. (See Bellair, Edward, assignor.)
- Duplessie, Joseph, Providence, R. I. Measuring device. No. 1,382,717; June 28; v. 287; p. 620.
- Duplessie, Joseph, assignor of one-half to George F. Rooke, Providence, R. I. Grinding-fixture. No. 1,384,726; July 12; v. 288; p. 354.
- Duplessis, René E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,399,754; Dec. 13.
- Duplex Engine-Governor Company. (See Baumgartner, Walter J., assignor.)
- Duplex Engine-Governor Company. (See Douglas, T., and Tabb, assignors.)
- Duplex Printing Press Company. (See Bechman, Louis H., assignor.)
- Duplexalite Corporation. (See Amiguet, Charles, assignor.)
- Duplexalite Corporation. (See White, Ernest C., assignor.)
- Du Pont, E. I., de Nemours and Co. (See Woodbury, Clifford A., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Albert, Talbot J., Jr., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Andreau, Roland L., assignor.)



*Alphabetical list of patentees—Continued.*

- Du Pont, E. I., de Nemours & Company. (See Bartleson, Thomas L., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Burke, C. E., and Barnhart, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Cooke, Maurice B., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Cope, Wilard C., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Davidson, T. M., and Chesney, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Emhardt, John C., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Gillespie, Kingsley A., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Haon, Harry J., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Haon, Harry J., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Henning, Clarence I. B., assignor.)
- Du Pont, E. I., de Nemours and Company. (See Holzschuh, Simon P., assignor.)
- Du Pont, E. I., de Nemours and Company. (See Houlehan, Arthur E., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Jacobs, Charles B., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Kessler, Johannes M., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Kraft, Frederick G., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Lednum, Edmund T., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Moran, Robert C., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Priest, George W., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Ritter, Frank O., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Schulte, Louis, assignor.)
- Du Pont, E. I., de Nemours & Company. (See Sparre, F. and Masland, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Stetson, F. W., and Essex, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Stine, C. M. A., and Gilson, assignors.)
- Du Pont, E. I., de Nemours and Company. (See Stine, Charles M., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Swint, Wendell R., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Woodbridge, Richard G., Jr., assignor.)
- Du Pont, Eleuthere P., Wilmington, Del. Combined lubrication guard and feeder. No. 1,368,250; Feb. 15; v. 283; p. 372.
- Du Pont, Eleuthere P., Montchanin, Del. Engine-support. No. 1,376,520; May 3; v. 286; p. 27.
- Du Pont, Eleuthere P., Montchanin, Del. Machine for packing fuses. No. 1,381,909; June 21; v. 287; p. 413.
- Du Pont, Eleuthere P., Montchanin, Del. Lubricating system for internal-combustion engines. No. 1,391,722; Sept. 27; v. 290; p. 664.
- Du Pont, Francis I., Wilmington, Del. Process of and apparatus for obtaining oxides of nitrogen from atmospheric air. No. 1,370,295; Mar. 1; v. 284; p. 102.
- Du Pont, Francis I., Wilmington, Del. Oil-burning apparatus. No. 1,393,207; Oct. 11.
- Du Pont, Francis I., Wilmington, Del. Smokeless shotgun-powder. No. 1,397,042; Nov. 15.
- Du Pont, Francis I., assignor to Delaware Chemical Engineering Company, Wilmington, Del. Burner for steam-automobiles. No. 1,385,366; July 26; v. 288; p. 642.
- Du Pont, Francis I., assignor to Delaware Chemical Engineering Company, Wilmington, Del. System for steam-driven motor-vehicles. No. 1,386,608; Aug. 9; v. 289; p. 198.
- Du Pont, Francis I., assignor to Delaware Chemical Engineering Company, Wilmington, Del. Water-level regulator for steam-boilers. No. 1,401,892; Dec. 27.
- Du Pont, Francis I., assignor to Delaware Chemical Engineering Company, Wilmington, Del. Means for preventing the formation of scale in steam-boilers. No. 1,401,893; Dec. 27.
- Du Pont, Francis I., assignor to Delaware Chemical Engineering Company, Wilmington, Del. Water-level regulator for steam-boilers. No. 1,401,894; Dec. 27.
- Dupont, George C., South Croydon, assignor to Philip and Tracey, Limited, Fulham, London, England. Fastener, support, and the like. No. 1,385,311; July 19; v. 288; p. 554.
- Dupont, Jean G., Chicago, Ill. Bonnet. No. 1,386,692; Aug. 9; v. 289; p. 216.
- Dupont, Lucien, Vincennes, assignor to himself and Société Darrasse Freres, Paris, France. The utilization of marine algae for the manufacture of acetic and butyric acids. No. 1,371,611; Mar. 15; v. 284; p. 464.
- Dupont, Lucien, Vincennes, assignor to himself and Société Darrasse Freres, Paris, France. Process for the manufacture of valerianic acid and of alkaline valerianates. No. 1,389,187; Aug. 30; v. 289; p. 875.
- Dupont, Martin S., Chicago, Ill. Fan. No. 1,384,053; July 12; v. 288; p. 214.
- Duprat, Frank A., Akron, Ohio. Shade-bracket. No. 1,371,878; Mar. 15; v. 284; p. 515.
- Dupré, Wilfred, Worcester, Mass. Dustpan. No. 1,392,406; Oct. 4.
- Dupré, Wilfred, Worcester, assignor of one-half to F. A. Moore, Foxboro, Mass. Automatic tracking device. No. 1,383,390; July 5; v. 288; p. 28.
- Dupré, William H., Vicksburg, Miss. Grease-cup. No. 1,393,097; Oct. 11.
- Du Puy, John W., Beaver Falls borough, Pa. Stove. No. 1,394,508; Oct. 18.
- Dupuy, Robert E., Summer Lake, Oreg. Quick-acting wrench. No. 1,371,080; Mar. 8; v. 284; p. 297.
- Duquette, William, assignor to Johnson-Randall Co., Traverse City, Mich. Closure holding and securing means. No. 1,376,802; May 3; v. 286; p. 80.
- Dura Construction Company. (See Hoenemann, Theodor E., assignor.)
- Dura Mechanical Hardware Company. (See Lawrence, John D., assignor.)
- Dura Mechanical Hardware Company. (See Nicholson, Stanley W., assignor.)
- Durand, Marc. (See Roudil, G., and Durand.)
- Durand Steel Locker Company. (See Vance, Walter N., assignor.)
- Durant, Charles. (See Wells, Fred B., assignor.)
- Durborow, Harry J., and B. L. Winders, Philadelphia, Pa. Sound-reproducing machine. No. 1,370,794; Mar. 8; v. 284; p. 243.
- Durborow, Harry J., assignor of one-half to B. L. Winders, Philadelphia, Pa. Stylus-bar mounting. No. 1,378,097; May 17; v. 286; p. 438.
- Dure, Miller O. (See Emery, Harry S., assignor.)
- Durett, Coral G., Pittsfield, Mass. Vision-lens for automobile-drivers. No. 1,368,125; Feb. 8; v. 283; p. 300.
- Durgan, George, and H. Myers, Lubec, Me. Wrench. No. 1,373,180; Mar. 29; v. 284; p. 866.
- Durham, Charles L., Kansas City, Mo. Blowout-patch and holder therefor. No. 1,369,410; Feb. 22; v. 283; p. 637.
- Durham, Howe, Shellman, Ga. Gasolene-dispensing apparatus. No. 1,365,160; Jan. 11; v. 282; p. 259.
- Durham, John W., Wichita, Kans. Fuel-heating apparatus for intake-manifolds. No. 1,390,101; Sept. 6; v. 290; p. 110.
- Durham, Robert P., Chicago, Ill. Tower. No. 1,390,102; Sept. 6; v. 290; p. 110.
- Durham, William R., Detroit, Mich. Nut-keeper for milling-machines. No. 1,392,681; Oct. 4.
- Durhan, George, New York, N. Y. Apparatus for ornamenting lead. No. 1,376,083; Apr. 26; v. 285; p. 656.
- Durieux, Joseph, New Eagle, Pa. Double ring for glass factories. No. 1,367,027; Feb. 1; v. 283; p. 29.
- Durio, Erberto, Turin, Italy. Machine for stretching tanned skins and leathers. No. 1,367,028; Feb. 1; v. 283; p. 29.
- Duriron Company Inc., The. (See Schenck, Pierce D., assignor.)
- Durkee, Chauncey H., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Automatic control for processing apparatus. No. 1,385,609; July 26; v. 288; p. 692.
- Durkee, Dwight M., assignor to Free Sewing Machine Company, Rockford, Ill. Electric sewing-machine. No. 1,367,244; Feb. 1; v. 283; p. 72.
- Durkee, Ernest E., Deer River, Minn. Bag-holder for trucks. No. 1,390,346; Sept. 13; v. 290; p. 250.
- Durnell, Cecil M., Daytona Beach, assignor to J. F. Phillips, Wilson, Fla. Shade and curtain bracket. No. 1,384,246; July 12; v. 288; p. 254.
- Durner, Augustus E., Evansville, Wis. Punch and shear. No. 1,368,906; Feb. 15; v. 283; p. 500.
- Durner, Urban F., Milwaukee, Wis. Door attachment. No. 1,369,270; Feb. 22; v. 283; p. 610.
- Durnford, Charles W., West Ealing, assignor to Submersible & J-L Motors, Limited, Southall, England. Electric motor. No. 1,377,323; May 10; v. 286; p. 237.
- Durnford, Charles W., West Ealing, assignor to Submersible & J-L Motors, Limited, Southall, England. Combined pump and electric motor. No. 1,377,326; May 10; v. 286; p. 238.
- Durning, Charles, Philadelphia, Pa. Automobile-signal. No. 1,397,947; Nov. 22.
- Durrans, Thomas H., Oxford, assignor to A. Boake Roberts & Co. Limited, London, England. Manufacture or preparation of sulfulryl chloride. No. 1,364,738; Jan. 4; v. 282; p. 133.
- Duryea, Maynard A., Nunda, N. Y. Vein-expander and drain-tube. No. 1,365,387; Jan. 11; v. 282; p. 302.
- Duryea, Oscar C. (See Grimm, P. H., Cocks, and Duryea.)
- Duryea, Oscar. (See Searle, A. H., and Duryea.)
- Duryea, Otho C., Waterbury, Conn., and M. C. White, Oakland, Calif., assignors to American Briquet Machine Company, Chicago, Ill. Briquetting. No. 1,371,671; Mar. 15; v. 284; p. 476.
- Dusek, Stanley. (See Marzak, F., and Dusek.)
- Du Sell, Giles H., assignor to Independent Pneumatic Tool Company, Chicago, Ill. Chuck. No. 1,391,177; Sept. 20; v. 290; p. 480.
- Du Sell, Giles H., assignor to Independent Pneumatic Tool Company, Chicago, Ill. Tool - holding device. No. 1,391,723; Sept. 27; v. 290; p. 664.



*Alphabetical list of patentees—Continued.*

- Dusha, Paul F., New York, and A. Feyk, Bohemia, assignors to Holub-Dusha Co., New York, N. Y. Color-sorting machine. No. 1,401,895; Dec. 27.
- Dusinberre, George B., Cleveland, Ohio. Spring-clip. No. 1,367,805; Feb. 8; v. 283; p. 240.
- Dusseau, Maurice G. (See Dusseau, Silas V. and M. G.)
- Dusseau, Maurice G., assignor of one-twentieth to D. A. McDaniel, Los Angeles, Calif. Universal joint. No. 1,389,297; Aug. 30; v. 289; p. 897.
- Dusseau, Silas V., Erie, and M. G. Dusseau, Detroit, Mich. Drive-wheel assembly. No. 1,387,967; Aug. 16; v. 289; p. 521.
- Dussol, Pierre. (See Couailliet, A., and Dussol.)
- Dutcher, Frank, Philadelphia, Pa. Window construction. No. 1,387,479; Aug. 16; v. 289; p. 424.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,385,312; July 19; v. 288; p. 555.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,385,313; July 19; v. 288; p. 555.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,385,314; July 19; v. 288; p. 555.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,385,315; July 19; v. 288; p. 555.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,385,316; July 19; v. 288; p. 555.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,389,494; Aug. 30; v. 289; p. 935.
- Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,398,846; Nov. 29.
- Dutcher, Pierpont E., Upper Montclair, N. J. Excavating apparatus. No. 1,383,913; July 5; v. 288; p. 135.
- Dutcher, Robert O., assignor of 40 per cent. to V. Russell, Morocco, Ind. Emergency-tire. No. 1,371,150; Mar. 8; v. 284; p. 310.
- Dutcher, Robert O., and G. Hope; said Hope assignor to said Dutcher, Morocco, Ind. Running-board brace. No. 1,380,046; May 31; v. 286; p. 954.
- Duten, Maurice, assignor to La Societe Dutén, Doublet & Cie., Levallois-Perret, Seine, France. Magneto-armature. No. 1,394,289; Oct. 18.
- Dutho Rubber Company. (See Sitzler, Guy A., assignor.)
- Dutreux, Auguste, Paris, assignor to Societe Anonyme pour L'Equiment Electrique des Vehicules, Issy les Moulineaux, France. Ignition apparatus for internal-combustion engines. No. 1,397,861; Nov. 22.
- Dutro, Orville V., and A. S. Burroughs, Spokane, Wash. Reciprocating cutter for printing-presses. No. 1,372,221; Mar. 22; v. 284; p. 637.
- Dutter, Hugh T., Albuquerque, N. Mex. Rotary valve. No. 1,371,081; Mar. 8; v. 284; p. 297.
- Dutton, Clarence B. (See Rittman, W. F., and Dutton.)
- Dutton, Clarence B., New York, N. Y. Apparatus for cleaning stirring-rods. No. 1,373,871; Apr. 5; v. 285; p. 96.
- Dutton, Oscar B., Baxter Springs, Kans. Fishing-tool. No. 1,388,992; Aug. 30; v. 289; p. 836.
- Dutton, William H., and C. E. Stone, Cedar Rapids, Iowa, assignors to The Tokheim Oil Tank & Pump Company. Liquid measuring and dispensing apparatus. No. 1,393,272; Oct. 11.
- Dutton, William M. (See Bagley, J. N., and Dutton.)
- Duyal, Ernest H., Monroe, Mich., assignor to George W. Swift, Jr., Incorporated, Bordentown, N. J. Stamping-machine. No. 1,393,513; Oct. 11.
- Duveau, Gaston. (See Trouilhet, L., and Duveau.)
- Duvelius, Walter S., Cincinnati, Ohio. Equalizing attachment for vise-jaws. No. 1,397,409; Nov. 15.
- Dvorak, Emil, Ochedan, Iowa. Hand-operated lever. No. 1,377,817; May 10; v. 286; p. 332.
- Dvorak, Rudolph, Carter, assignor of one-half to F. Hurlburt and R. H. Molitor, Winner, S. D. Grass-mower. No. 1,365,229; Jan. 11; v. 282; p. 272.
- Dwelle, Clarence W., Sandusky, Ohio. Lever-locking device. No. 1,377,413; May 10; v. 286; p. 254.
- Dwiggins Wire Fence Company. (See Swank, L., and Van Deventer, assignors.)
- Dwight & Lloyd Metallurgical Company. (See Lloyd, Richard L., assignor.)
- Dwork, Joseph H., Newark, N. J. Combined automobile bumper and tool-carrier. No. 1,369,636; Feb. 22; v. 283; p. 681.
- Dwork, Joseph H., Newark, N. J. Inlaid-tread tire. No. 1,381,173; June 14; v. 287; p. 215.
- Dworniczak, John, Chester, Pa. Brush. No. 1,391,882; Sept. 27; v. 290; p. 696.
- Dworski, Bill. (See Hawresch, S., Rock, and Dworski.)
- Dwyer, Frank P., assignor to Travelight Mfg. Co., Philadelphia, Pa. Satchel or the like. No. 1,370,636; Mar. 8; v. 284; p. 213.
- Dwyer, Leo T., assignor to Sexton Mfg. Co., Fairfield, Ill. Union-garment. No. 1,381,066; June 7; v. 287; p. 143.
- Dwyer, Martin J., Sturgis, Mich. Automobile direction-signal. No. 1,371,743; Mar. 15; v. 284; p. 489.
- Dwyer, Walter M., Hillsdale, N. J. Check-protector. No. 1,376,611; May 3; v. 286; p. 44.
- Dwyer, William, assignor to Four-In-One Safety Razor Company, Pittsburgh, Pa. Safety-razor. No. 1,398,182; Nov. 22.
- Dwyer, William O., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,386,849; Aug. 9; v. 289; p. 248.
- Dwyer, William P., West Flamboro, Ontario, Canada. Safety device for automobiles. No. 1,397,043; Nov. 15.
- D'Yarmett, Edward C., Muskogee, Okla. Producing fuel. No. 1,376,925; May 3; v. 286; p. 104.
- Dyblie, Julius A., Joliet, Ill. Slotting-machine for splice-bars. No. 1,381,110; June 14; v. 287; p. 203.
- Dyblie, Julius A., Joliet, Ill. Signaling device. No. 1,396,169; Nov. 8.
- Dybowski, Stanley, deceased, by J. Nawacka, administratrix, Rockford, Ill. Animal-trap. No. 1,380,785; June 7; v. 287; p. 88.
- Dye, Garnett J., Dothan, Ala. Radio aerial torpedo. No. 1,376,192; Apr. 26; v. 285; p. 676.
- Dye, Glen M., Minneapolis, Minn. Film-clip. No. 1,373,493; Apr. 5; v. 285; p. 23.
- Dye, Glen M., Minneapolis, Minn. Film-clip and order-tab holder. No. 1,398,423; Nov. 29.
- Dye, Glen M., assignor to Photographic Appliances Corporation, Minneapolis, Minn. Conveyor-apron. No. 1,384,125; July 12; v. 288; p. 229.
- Dyer, Cecil M., Kew, Melbourne, Victoria, Australia. Auxiliary air-valve for internal-combustion engines. No. 1,373,119; Mar. 29; v. 284; p. 853.
- Dyer, Cecil M., Kew, Melbourne, Victoria, Australia. Starter for internal-combustion engines. No. 1,396,736; Nov. 15.
- Dyer, Frank L. (See Hopkins, Marcus C., assignor.)
- Dyer, Frank L. (See Tunison, Harold L., assignor.)
- Dyer, Gon Z., Williamson, W. Va. Convertible vehicle-body. No. 1,385,317; July 19; v. 288; p. 555.
- Dyer, Harry W., East Orange, N. J. Automobile-bracket. No. 1,375,834; Apr. 26; v. 285; p. 608.
- Dyer, Harry W., East Orange, N. J. Spring-bumper. No. 1,393,354; Oct. 11.
- Dyer, John, assignor of one-half to N. C. Mather, Chicago, Ill. Loading and unloading device. No. 1,386,053; Aug. 2; v. 289; p. 19.
- Dyer, Leonard H., Greenwich, Conn. Concrete. No. 1,369,794; Mar. 1; v. 284; p. 8.
- Dyer, Nelson M., Waterloo, assignor of one-fourth to W. H. Payne, Des Moines, and one-half to L. V. Darnall, Burlington, Iowa. Automobile-signal. No. 1,378,372; May 17; v. 286; p. 489.
- Dyer, Norman M., New York, N. Y. Tie press and holder. No. 1,371,879; Mar. 15; v. 284; p. 515.
- Dyer, Ralph H., Providence, R. I. Apparatus for inverting bottles. No. 1,373,604; Apr. 5; v. 285; p. 44.
- Dyer, Walter C., Chicago, Ill., assignor to Buda Company. Elevating mechanism for shop-trucks. No. 1,373,552; Apr. 5; v. 285; p. 34.
- Dyer, Walter C., assignor to The Buda Company, Chicago, Ill. Drilling-machine. No. 1,376,084; Apr. 26; v. 285; p. 656.
- Dyer, Warren, Mangum, Okla. Attachment for mowing-machines. No. 1,390,890; Sept. 13; v. 290; p. 359.
- Dygart, Charles B., Ilion, assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Firearm. No. 1,381,291; June 14; v. 287; p. 236.
- Dykes, James, Marinette, Wis. Portable crane. No. 1,374,837; Apr. 12; v. 285; p. 323.
- Dykes, John L. G., Chicago, Ill., assignor to E. Hopkinson, New York, N. Y. Tire-band-making machine. No. 1,370,100; Mar. 1; v. 284; p. 65.
- Dykes, John L. G., Chicago, Ill., assignor to E. Hopkinson, New York, N. Y. Tire-band-stretching machine. No. 1,370,101; Mar. 1; v. 284; p. 65.
- Dykes, John L. G., Chicago, Ill., assignor to E. Hopkinson, New York, N. Y. Tire-band stretching and vulcanizing machine. No. 1,370,102; Mar. 1; v. 284; p. 65.
- Dymock, Raymond, Hamburg, N. J. Stake-lock. No. 1,368,907; Feb. 15; v. 283; p. 501.
- Dymond, Bartholdia, Charlottesville, Va. Bearing-fitting tool. No. 1,383,454; July 5; v. 288; p. 41.
- Dynamidon G. m. b. H. (See Meyerhofer, Albert F., assignor.)
- Dynowsky, Peter, Newark, N. J. Combination shaving set. No. 1,369,012; Feb. 22; v. 283; p. 560.
- Dyrssen, Waldemar, New York, N. Y. Regulator for furnace-electrodes. No. 1,399,852; Dec. 13.
- Dyson, Alfred H., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Selective telephone system. No. 1,400,590; Dec. 20.
- Dyson, Herbert K., Westminster, London, England. Twisted metal bar for reinforced concrete construction. No. 1,399,701; Dec. 6.
- Dyson, John, Dracut, assignor to G. M. Arragg, Lawrence, Mass. Traverse-motion. No. 1,372,408; Mar. 22; v. 284; p. 673.
- Dyte, Norman V., Highgate, London, England. Trousers and like press. No. 1,394,290; Oct. 18.
- Dziambor, Wilhelm G. H., assignor to Firm Simplo Fullfeder Gesellschaft Voss, Lausen & Dziambor Fabrik fur Fullfederhalter und Goldfedern, Hamburg, Germany. Filling-bottle for fountain-pens. No. 1,381,546; June 14; v. 287; p. 546.
- Dzikoski, Józef, Warrior Run, Pa. Nut-lock. No. 1,388,957; Aug. 30; v. 289; p. 825.



## Alphabetical list of patentees—Continued.

- Dzurko, George, Pleasant City, Ohio. Trolley-wheel guard. No. 1,364,258; Jan. 4; v. 282; p. 41.
- E. & E. Carburetor Company. (See Ciglia, E. F., and Pelletier, assignors.)
- E-Z Fit Artificial Limb Co. (See Egli, Herman, assignor. (Reissue.)
- Eaddy, Bertrand I., Remuera, Auckland, New Zealand. Hat and fastener for same. No. 1,387,694; Aug. 16; v. 289; p. 467.
- Eader, John B. (See Cashman, Clarence G., assignor.)
- Eades, Herbert S., Philadelphia, Pa. Dynamo-electric machine. No. 1,388,555; Aug. 23; v. 289; p. 694.
- Eades, Herbert S., Philadelphia, Pa. Lathe. No. 1,399,199; Dec. 6.
- Eagan, John J., San Francisco, Calif. Concrete ship construction. No. 1,373,804; Apr. 5; v. 285; p. 82.
- Eager, Frank L., Waterbury, Conn. Artificial denture. No. 1,401,243; Dec. 27.
- Eagle Claw Tire Boot Company, The. (See Chapman, Albert, assignor.)
- Eagle Engineering Company, The. (See Pfeifer, Ferdinand A., assignor.)
- Eagle Engineering Company. (See Sykes, George, assignor.)
- Eagle Laundry, The. (See Keller, Nardo C., assignor.)
- Eagle, Samuel, Gilbert Plains, Manitoba, Canada. Wrench. No. 1,380,643; June 7; v. 287; p. 60.
- Eagles, John E., New Westminster, British Columbia, Canada. Automobile-headlight control. No. 1,374,912; Apr. 19; v. 285; p. 400.
- Eakin, John P., Jollytown, Pa. Adjustable seat. No. 1,385,742; July 26; v. 288; p. 719.
- Eakins, James M., Indianapolis, Ind. Sectionalized curtain-stretcher. No. 1,377,764; May 10; v. 286; p. 321.
- Eanes, Hugh P., assignor to Automatic Machine Company, Inc., Ridgeway, Va. Thread-knotter. No. 1,390,103; Sept. 6; v. 290; p. 110.
- Earhart, Walter M., Hope, Ind. Lid-operating device. No. 1,377,818; May 10; v. 286; p. 332.
- Earl, Geo. G., *et al.* (See Brown, Charles A., assignor.)
- Earl, Harley J., Los Angeles, Calif. Windshield. No. 1,400,479; Dec. 13.
- Earl, Luther D., Shelby, Ohio. Tool for piercing billets. No. 1,374,369; Apr. 12; v. 285; p. 232.
- Earl, Schuyler H. (See Bullock, E. W., Earl, and Bryan.)
- Earl, Schuyler H. (See Stewart, A. L., Bullock, and Earl.)
- Earle, H. S., Mfg. Co. (See Earle, Horatio S., assignor.)
- Earle Hardware Manufacturing Co. (See Earle, William K., assignor.)
- Earle, Harry J., Rapid City, S. D. Aero-inclinometer. No. 1,365,233; Jan. 11; v. 282; p. 273.
- Earle, Horatio S., assignor to H. S. Earle Mfg. Co., Detroit, Mich. Grass-hook. No. 1,387,246; Aug. 9; v. 289; p. 325.
- Earle, Howard M., A. Vaugeois, and F. Carston, Druid, Saskatchewan, Canada. Light-director. No. 1,370,795; Mar. 8; v. 284; p. 243.
- Earle, Richard T., Portland, Oreg. Flour-sifter. No. 1,393,367; Nov. 29.
- Earle, Stanley B., Hornchurch, England. Stropping or sharpening apparatus for razor-blades. No. 1,392,309; Oct. 4.
- Earle, William K., Ocean Park, Calif. Casement-adjuster. No. 1,378,373; May 17; v. 286; p. 489.
- Earle, William K., Ocean Park, Calif. assignor to Earle Hardware Manufacturing Co. Handle and latch operating device. No. 1,383,088; June 28; v. 287; p. 690.
- Earley, John J., Washington, D. C. Producing a predetermined color effect in concrete and stucco. No. 1,376,748; May 3; v. 286; p. 69.
- Earnhart, Arthur, Pondercreek, Okla. Pliers. No. 1,367,362; Feb. 1; v. 283; p. 95.
- Earnshaw, Margaret W., Glencoe, Ill. Flexible garment-fastener. No. 1,389,131; Aug. 30; v. 289; p. 863.
- Earp, Jhue R., Chattanooga, Tenn. Tire-mold. No. 1,392,487; Oct. 4.
- Eason, Clarence M. (See Funk, T. B., and Eason.)
- East, James L., Denver, Colo. Beet-topper. No. 1,373,872; Apr. 5; v. 285; p. 96.
- Easter, W. Frank, assignor to J. A. McMillan, Marshalltown, Iowa. Feeder. No. 1,368,708; Feb. 15; v. 283; p. 462.
- Easter, W. Frank, assignor to J. A. McMillan, Marshalltown, Iowa. Poultry-feeder. No. 1,376,685; May 3; v. 286; p. 57.
- Easterberg, Robert N. and H. J. Volkwein, Pittsburgh, Pa. Plumb-bob. No. 1,369,523; Feb. 22; v. 283; p. 658.
- Easterbrooks, Walter E. (See Coombs, Edgar L., assignor.)
- Easterday, Van Emery, Urbana, Ill. Building-block. No. 1,395,632; Nov. 1.
- Eastern Manufacturing Company. (See Hanson, H. H., and Walker, assignors.)
- Eastern Manufacturing Company. (See Howe, Henry P., assignor.)
- Eastern Manufacturing Company. (See Little, A. L., and Verow, assignors.)
- Eastern Signal & Supply Company. (See Deems, E. M., and Willis, assignors.)
- Eastern States Package Co. (See Holland, Lyle H., assignor.)
- Eastern Tube and Tool Co. (See Hansen, Haas, assignor.)
- Eastlund, Frank, Omaha, Nebr. Bedclothes-support. No. 1,401,244; Dec. 27.
- Eastly, Henry D., Kennebec, S. D. Trace-carrier. No. 1,381,812; June 14; v. 287; p. 335.
- Eastman, Carrie J., *et al.* (See Eastman, H. N., assignor.)
- Eastman, Harry L., and F. B. Rae, Cleveland, Ohio, assignors of four-tenths to said Rae and six-tenths to said Eastman. Calculating device. No. 1,378,666; May 17; v. 286; p. 546.
- Eastman, Harry N., assignor of one-third to T. F. McDonald, one-third to A. A. McDonald, Dayton, and one-third to C. J. Eastman, Portsmouth, Ohio. Gas-mixer for internal-combustion engines. No. 1,384,184; July 12; v. 288; p. 241.
- Eastman, Henry P., Livingston Manor, N. Y. Collapsible box. No. 1,394,154; Oct. 18.
- Eastman, Joseph, Manitowoc, Wis. Nozzle-holder. No. 1,393,098; Oct. 11.
- Eastman, Joseph P., assignor to Eastman Manufacturing Company, Manitowoc, Wis. Means and method for connecting tubing of dissimilar materials. No. 1,398,634; Nov. 29.
- Eastman Kodak Company. (See Capstaff, John G., assignor.)
- Eastman Kodak Company. (See Chapman, Albert K., assignor.)
- Eastman Kodak Company. (See Clarke, Hans T., assignor.)
- Eastman Kodak Company. (See Crabtree, John I., assignor.)
- Eastman Kodak Company. (See Donohue, John M., assignor.)
- Eastman Kodak Company. (See Flynn, Edward P., assignor.)
- Eastman Kodak Company. (See Folmer, William F., assignor.)
- Eastman Kodak Company. (See Frederick, C. W., and Hopkins, assignors.)
- Eastman Kodak Company. (See Frederick, Charles W., assignor.)
- Eastman Kodak Company. (See Gaisman, Henry J., assignor.)
- Eastman Kodak Company. (See Gordon, John, Jr., assignor.)
- Eastman Kodak Company. (See Hastings, H. E., Farley, and Sulzer, assignors.)
- Eastman Kodak Company. (See Hurlburt, David M., assignor.)
- Eastman Kodak Company. (See Hutchings, Charles E., assignor.)
- Eastman Kodak Company. (See Jones, John G., assignor.)
- Eastman Kodak Company. (See Kroedel, Robert, assignor.)
- Eastman Kodak Company. (See Lubashez, Nahum E., assignor.)
- Eastman Kodak Company. (See Malone, Lester J., assignor.)
- Eastman Kodak Company. (See McDaniel, A. S., and Nietz, assignors.)
- Eastman Kodak Company. (See Mees, Charles E. K., assignor.)
- Eastman Kodak Company. (See Parkinson, William J., assignor.)
- Eastman Kodak Company. (See Seel, Paul C., assignor.)
- Eastman Kodak Company. (See Punnett, M. B., and Whitaker, assignors.)
- Eastman Kodak Company. (See Ruttan, A. A., and Hutchings, assignors.)
- Eastman Kodak Company. (See Seel, P. C., Combs, and Kemp, assignors.)
- Eastman Kodak Company. (See Seel, Paul C., assignor.)
- Eastman Kodak Company. (See Stinchfield, Ray L., assignor.)
- Eastman Kodak Company. (See Sulzer, Albert F., assignor.)
- Eastman Kodak Company. (See Swann, Sydney C., assignor.)
- Eastman Kodak Company. (See Tessier, Julien, assignor.)
- Eastman Kodak Company. (See Underwood, Ernest E., assignor.)
- Eastman Kodak Company. (See Vaeth, William C., assignor.)
- Eastman, Lyman H. (See Bartlett, C. A., and Eastman.)
- Eastman Machine Co. (See Clark, Frederick J., assignor.)
- Eastman Machine Company. (See Williams, James E., assignor.)
- Eastman Manufacturing Company. (See Eastman, Joseph P., assignor.)
- Eastman, Oliver D., and W. M. Gregg, Muskegon, Mich. Dirigible lighting mechanism. No. 1,380,367; June 7; v. 287; p. 8.
- Easton Car Construction Co. (See Farrier, Albert M., assignor.)
- Easton, Frank B. (See Dubben, Harry F., assignor.)
- Eastridge, John R., Washington, D. C. Animal-trap. No. 1,389,636; Sept. 6; v. 290; p. 15.
- Eaton, Albert N., Omaha, Nebr. Stock-watering tank. No. 1,375,039; Apr. 19; v. 285; p. 425.
- Eaton, Albert N., Omaha, Nebr. Barrel-hoop machine. No. 1,390,282; Sept. 13; v. 290; p. 237.



*Alphabetical list of patentees—Continued.*

- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Cooling system for dynamo-electric machines. No. 1,365,309; Jan. 11; v. 282; p. 288.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric locomotive. No. 1,365,310; Jan. 11; v. 282; p. 288.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic pumping system. No. 1,376,411; May 3; v. 286; p. 6.
- Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power-transmission system. No. 1,385,987; Aug. 2; v. 289; p. 5.
- Eaton, George M., assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Flexible coupling. No. 1,390,514; Sept. 13; v. 290; p. 283.
- Eaton, George M., assignor of one-third to H. G. Bell, Bainbridge, Ga. Battery-box. No. 1,399,702; Dec. 6.
- Eaton, Harrison H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting device. No. 1,371,357; Mar. 15; v. 284; p. 414.
- Eaton, Harrison H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-support for cutting-machines. No. 1,387,695; Aug. 16; v. 289; p. 467.
- Eaton, James A., Milwaukee, Wis. Truck conveyer and unloader. No. 1,388,245; Aug. 23; v. 289; p. 633.
- Eaton, Joseph D., Northampton, Mass. Tension device. No. 1,364,259; Jan. 4; v. 282; p. 41.
- Eaton, Malvern A., Littleton, assignor to Pike Manufacturing Company, Pike, N. H. Machine for grinding articles with plane surfaces. No. 1,377,117; May 3; v. 286; p. 141.
- Eaton, Malvern A., Littleton, assignor to Pike Manufacturing Company, Pike, N. H. Machine for shaping articles by grinding. No. 1,377,118; May 3; v. 286; p. 141.
- Eaton, Malvern A., Littleton, assignor to Pike Manufacturing Company, Pike, N. H. Machine for shaping sharpening-stones. No. 1,377,119; May 3; v. 286; p. 141.
- Eaton, Orrin O., Watsonville, Calif. Berry-tray. No. 1,400,426; Dec. 13.
- Eaton, Richard M., Niagara Falls, N. Y. Electric heating device. No. 1,368,328; Feb. 15; v. 283; p. 388.
- Eaton, Richard M., Niagara Falls, N. Y. Flashlight. No. 1,399,545; Dec. 6.
- Eaton, William S., Sag Harbor, N. Y. Priming-cup. No. 1,372,494; Mar. 22; v. 284; p. 689.
- Ebaugh, Thomas A., Kansas City, Mo. Confection apparatus. No. 1,397,757; Nov. 22.
- Ebeling, Charles W., Buffalo, N. Y. Synchronized recording and reproducing apparatus for visual and audible actions. No. 1,374,913; Apr. 19; v. 285; p. 400.
- Eberhard Faber Pencil Company. (See Faber, Lothar W., assignor.)
- Ebert, Earnest R. (See Ebert, George H. and E. R.)
- Eberhardt, George O., Kelliher, assignor of one-half to J. Jerome, Battle River, Minn. Oil strainer and sediment trap. No. 1,378,334; May 17; v. 286; p. 482.
- Eberhardt, Ulrich S., Maplewood, assignor to Newark Gear Cutting Machine Co., Newark, N. J. Scraping means for use with rotating members. No. 1,369,637; Feb. 22; v. 283; p. 682.
- Eberhardt, Walter. (See Herschede, W. J., and Eberhardt.)
- Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Preparing sanitary can ends. No. 1,373,060; Mar. 29; v. 284; p. 841.
- Eberle, Herman J., St. Louis, Mo. Removable floor-form section for use in connection with column-forms used in slab construction. No. 1,379,003; May 24; v. 286; p. 683.
- Eberle, John A., St. Louis, Mo. Child's swing. No. 1,401,595; Dec. 27.
- Eberly, Edgar, and W. G. Fetrow, Mechanicsburg, Pa. Sheaf-hoist. No. 1,371,777; Mar. 15; v. 284; p. 495.
- Eberly, Sylvester, assignor to D. A. Yoder, Toledo, Ohio. Can-handling mechanism. No. 1,373,605; Apr. 5; v. 285; p. 44.
- Ebersold, Ralph R., Cedar Falls, Iowa. Concrete-mixer. No. 1,370,954; Mar. 8; v. 284; p. 273.
- Ebert, Alfred O. H. (See Pruszyński, A. J., and Ebert.)
- Ebert, Frederick J., Mount Vernon, Wash. Card game. No. 1,377,327; May 10; v. 286; p. 238.
- Ebert, George H. and E. R., Burlington, Iowa. Attaching means for antikidding-chains. No. 1,393,099; Oct. 11.
- Ebin, David. (See Altwegg, J., and Ebin.)
- Ebrezn, Joseph E., Pittsburgh, Pa. Adjustable compressor for card-index drawer. No. 1,367,245; Feb. 1; v. 283; p. 72.
- Ecaubert, Frederic, New York, N. Y. Arbor-bearing for timepiece-movements. No. 1,371,022; Mar. 8; v. 284; p. 286.
- Eccard, John F., assignor to The Troy Wagon Works Company, Troy, Ohio. Steering device for vehicles. No. 1,365,897; Jan. 18; v. 282; p. 442.
- Eccard, John F., assignor to The Troy Wagon Works Company, Troy, Ohio. Steering device for vehicles. No. 1,398,588; Nov. 29.
- Eck, Earl, Robbinsdale, Minn. Portable windlass. No. 1,386,693; Aug. 9; v. 289; p. 216.
- Eckard, James W. (See Sheehan, W. H., and Eckard.)
- Eckart, Charles F., Olaa, Hawaii. Mulsh. No. 1,372,995; Mar. 29; v. 284; p. 830.
- Eckart, Charles F., Olaa, Hawaii. Mulsh. No. 1,372,996; Mar. 29; v. 284; p. 830.
- Eckart, Charles F., Olaa, Hawaii. Enhancing growth of plants. No. 1,372,997; Mar. 29; v. 284; p. 830.
- Eckart, Charles F., Olaa, Hawaii. Method and means for enhancing the growth of plants. No. 1,372,998; Mar. 29; v. 284; p. 830.
- Eckart, Charles F., Olaa, Hawaii. Mulsh. No. 1,372,999; Mar. 29; v. 284; p. 830.
- Eckart, Charles F., Olaa, Hawaii. Mulsh and making the same. No. 1,396,269; Nov. 8.
- Eckart, Charles F., Honolulu, Hawaii. Enhancing the growth of plants. No. 1,377,566; May 10; v. 286; p. 282.
- Eckart, Charles F., Honolulu, Hawaii. Method and means for enhancing the growth of plants. No. 1,382,069; June 21; v. 287; p. 442.
- Eckart, Charles F., Honolulu, Hawaii. Method and means for enhancing the growth of plants. (Reissue.) No. 15,231; Nov. 22.
- Eckart, George F., Cincinnati, Ohio. Worm-gear drive. No. 1,397,317; Nov. 15.
- Eckberg, Gustaf E. (See Lundell, V. S., and Eckberg.)
- Eckel, Henry K., Milwaukee, Wis. Composition body for shoe-soles and the like. No. 1,383,793; July 5; v. 288; p. 111.
- Eckelmann, Luis E., and G. E. Ferguson, New York, N. Y., assignors to Pyrene Manufacturing Company. Chemical heater. No. 1,384,747; July 19; v. 288; p. 439.
- Eckenroth, John P., deceased, Chester, Pa.; M. A. Eckenroth, executrix. Rolling-mill for bending angle or channel iron into different angles. No. 1,397,271; Nov. 15.
- Eckenroth, Mary A., executrix. (See Eckenroth, John P.)
- Eckler, Charles E., Birmingham, Ala. Vaporizer for oil-burners. No. 1,384,522; July 12; v. 288; p. 311.
- Eckersley, Arthur J. L., South Melbourne, Victoria, Australia. Appliance for delivering effervescent liquids. No. 1,370,796; Mar. 8; v. 284; p. 243.
- Eckert, Adolph, assignor to Liquid Carbonic Company, Chicago, Ill. Drink cooling and dispensing fountain. No. 1,398,961; Dec. 6.
- Eckert, Grandon E., assignor to The R. Thomas & Sons Co., East Liverpool, Ohio. Cable-clamp. No. 1,378,667; May 17; v. 286; p. 547.
- Eckert, John, Milwaukee, Wis. Ring-rolling machine. No. 1,367,540; Feb. 8; v. 283; p. 189.
- Eckfeld, Charles B. (See Beker, Steven, assignor.)
- Eckhard, William K. (See White, Joseph, and Eckhard.)
- Eckhardt, Adolph W., New York, N. Y. Pneumatic vehicle-wheel. No. 1,393,514; Oct. 11.
- Eckhardt, Chester C., Rochester, N. Y. Primer and humidifer for internal-combustion engines. No. 1,375,496; Apr. 19; v. 285; p. 512.
- Eckhart, Marvin L., Attica, Ind., assignor to National Car Coupler Co., Chicago, Ill. Car-coupling. No. 1,378,098; May 17; v. 286; p. 438.
- Eckman, Walter H., Mankato, Minn. Electrically-heated oil-strainer. No. 1,395,949; Nov. 1.
- Eckstein, Reuben J., Kitchener, Ontario, Canada. Key-holder. No. 1,391,533; Sept. 20; v. 290; p. 553.
- Eclipse Interchangeable Counterbore Company. (See Smith, John H., assignor.)
- Eclipse Machine Company. (See McGrath, William L., assignor.)
- Eclipse Machine Company, The. (See Mentzer, Claude E., assignor.)
- Eclipse Machine Company. (See Richards, Julius H., assignor.)
- Eclipse Manufacturing Company. (See Thomas, Herbert, assignor.)
- Eclipse Machine Company. (See Van Ness, Henry E., assignor.)
- Eclipse Machine Company. (See Whitney, Maurice P., assignor.)
- Eclipse Musical Company, The. (See Bennett, Charles K., assignor.)
- Eclipse Specialty Manufacturing Company. (See Meyer, John F., assignor.)
- Ecob, Robert G., New York, N. Y. Aeroplane. No. 1,377,414; May 10; v. 286; p. 255.
- Economy Sales Company. (See Simpson, John T., assignor.)
- Economy Shoe Machinery Company. (See Terry, George O., assignor.)
- Eddington, A. T. (See Pokorny, James T., assignor.)
- Eddins, Sextus A., Brockton, and W. H. Baynard, Boston, Mass. Making low-cut shoes. No. 1,386,850; Aug. 9; v. 289; p. 248.
- Eddy, Harold C. (See Alden, S. F., and Eddy.)
- Eddy, John S., Los Angeles, Calif. Fountain shaving-brush. No. 1,374,724; Apr. 12; v. 285; p. 301.
- Eddy, Lawrence R., Elizabeth, N. J. Sifting-top. No. 1,373,120; Mar. 29; v. 284; p. 853.
- Eddy, Lawrence R., Elizabeth, N. J. Aeroplane-kite. No. 1,400,735; Dec. 20.
- Eddy, Ray L., assignor of one-half to W. H. Washburne, Chicago, Ill. Self-cleaning filter for carburetor-intakes. No. 1,377,191; May 10; v. 286; p. 211.
- Ede, Allsworth S., Dubuque, Iowa. Filing system. No. 1,365,388; Jan. 11; v. 282; p. 303.
- Edeborg, Albert W., Jamestown, N. Y. Tire-chain fastener. No. 1,396,103; Nov. 8.



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- Edeburn, Alfred N., Cleveland, Ohio. Centrifugal switch. No. 1,380,706; June 7; v. 287; p. 72.
- Edel, Max, Nuremberg, assignor to the Firm of Maschinenfabrik Worzeldorf H. A. Paulus & Franck, Worzeldorf-Nuremberg, Germany. Rake with exchangeable prongs. No. 1,385,965; July 26; v. 288; p. 763.
- Edelblut, Louis C., Augusta, Ga. Implement for displacing bushings in tubular holders. No. 1,364,489; Jan. 4; v. 282; p. 86.
- Edelblute, Thomas H., Pittsburgh, Pa., assignor to Cincinnati Frog & Switch Company, Cincinnati, Ohio. Parallel ground-throw switch-stand. No. 1,393,677; Oct. 11.
- Edell, Joseph W., assignor of one-half to M. J. Maruna, Cleveland, Ohio. Detachable lining for brake-bands. No. 1,395,670; Nov. 1.
- Edelman, Philip B., New York, N. Y. Control of reactions. No. 1,399,200; Dec. 6.
- Edelmann, Erich, Chicago, Ill. Grease and oil gun. No. 1,379,004; May 24; v. 286; p. 683.
- Edelmann, Erich, Chicago, Ill. Automatic hose-coupling. No. 1,390,283; Sept. 13; v. 290; p. 237.
- Edelmann, Otto, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Bracket for suspending cables and the like. No. 1,384,437; July 12; v. 288; p. 294.
- Eden, Harold W., Alton, Ill., assignor, by mesne assignments, to Gillespie-Eden Corporation. Washing-machine drive. No. 1,387,696; Aug. 16; v. 289; p. 467.
- Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Machine for threading stay-bolts. No. 1,367,951; Feb. 8; v. 283; p. 267.
- Eden, James A., Jr., Springfield, Mass., assignor to W. H. Foster, New York, N. Y. Bolt-making machine. No. 1,380,047; May 31; v. 286; p. 954.
- Edgar, Andrew C., Newton Square, Pa. Baffle construction in boiler-furnaces. No. 1,373,226; Mar. 29; v. 284; p. 875.
- Edgar, Arthur J., Humboldt, Ill. Tractor-guide. No. 1,376,412; May 3; v. 286; p. 7.
- Edgar, John R., Ava, Ill. Mower-guard. No. 1,374,001; Apr. 5; v. 285; p. 122.
- Edgar Steel Seal & Mfg. Co. (See Edgar, William K., assignor.)
- Edgar, William K., assignor to Edgar Steel Seal & Mfg. Co., Lawrence, Kans. Seal. No. 1,401,326; Dec. 27.
- Edgecomb, Arthur C. (See Downey, J. B., and Edgecomb.)
- Edgecombe, Edward F., Jr., Indianapolis, Ind., assignor to Meier-Gaynor Mfg. Co., Indianapolis, Ind. Cap-feeder for bottle-cappers. No. 1,391,648; Sept. 20; v. 290; p. 575.
- Edgerly, John A., Boston, assignor of one-half to M. Edgerly, Brookline, Mass. Latch for doors. No. 1,380,545; June 7; v. 287; p. 42.
- Edgerly, Matthew. (See Edgerly, John A., assignor.)
- Edgerton, John A., and H. F. Calkins, Newark, N. J. Keyless lock for automobiles. No. 1,378,335; May 17; v. 286; p. 482.
- Edgewater Steel Company. (See Bell, Frank B., assignor.)
- Edginton, Theodore, Cutler, Calif. Scraper. No. 1,388,809; Aug. 23; v. 289; p. 744.
- Edinger, Urban G. (See Anderson, W. R., and Edinger.)
- Edison, Karl, assignor to H. E. Bloch, Spring Valley, N. Y. Toy. No. 1,376,749; May 3; v. 286; p. 70.
- Edison Storage Battery Company. (See Edison, Thomas A., assignor.)
- Edison Storage Battery Company. (See Lyndon, Lamar, assignor.)
- Edison, Thomas A., Incorporated. (See Edison, Thomas A., assignor.)
- Edison, Thomas A., Incorporated. (See Shelly, Samuel, assignor.)
- Edison, Thomas A., Llewellyn Park, N. J. Protecting-varnish for electrodes of electrolytic cells. No. 1,364,359; Jan. 4; v. 282; p. 61.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Cleaning of metallic surfaces. No. 1,369,271; Feb. 22; v. 283; p. 610.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Nickel-plating. No. 1,371,414; Mar. 15; v. 284; p. 426.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Storage battery. No. 1,379,088; May 24; v. 286; p. 699.
- Edison, Thomas A., West Orange, N. J. Storage battery. No. 1,377,194; May 10; v. 286; p. 211.
- Edison, Thomas A., Llewellyn Park, West Orange, N. J. Production of thin metallic sheets or foils. No. 1,379,089; May 24; v. 286; p. 699.
- Edison, Thomas A., Llewellyn Park, assignor to Edison Storage Battery Company, West Orange, N. J. Battery-tray. No. 1,364,358; Jan. 4; v. 282; p. 60.
- Edison, Thomas A., Llewellyn Park, West Orange, assignor to New Jersey Patent Company, West Orange, N. J. Molding. No. 1,369,272; Feb. 22; v. 283; p. 610.
- Edison, Thomas A., assignor to New Jersey Patent Company, West Orange, N. J. Production of molded articles. No. 1,377,192; May 10; v. 286; p. 211.
- Edison, Thomas A., assignor to New Jersey Patent Company, West Orange, N. J. Production of molded articles. No. 1,377,193; May 10; v. 286; p. 211.
- Edison, Thomas A., assignor to Thomas A. Edison, Incorporated, Llewellyn Park, West Orange, N. J. Electrode element for galvanic batteries and producing same. No. 1,386,095; Aug. 2; v. 289; p. 27.
- Edison, Thomas A., Jr., Burlington, N. J. Suction-feed. No. 1,389,425; Aug. 30; v. 289; p. 922.
- Edlund, Ernst T., New York, N. Y. Bedclothes-holder. No. 1,371,880; Mar. 15; v. 284; p. 515.
- Edmonds, Bradford C., Newton, Mass., assignor to American Piano Company, New York, N. Y. Grand-piano construction. No. 1,401,115; Dec. 20.
- Edmonds, Herbert R. (See Moore, K. B., and Edmonds.)
- Edmonds, Harriet A., and F. H. Joels, Denver, Colo. Bath-hammock. No. 1,369,638; Feb. 22; v. 283; p. 682.
- Edmund, John C., Shanghai, China. Oil-burner. No. 1,367,467; Feb. 1; v. 283; p. 116.
- Edmunds & Jones Corporation. (See Godley, Charles E., assignor.)
- Edmunds, William H., Baltimore, Md. Lubricating attachment. No. 1,371,151; Mar. 8; v. 284; p. 310.
- Edmundson, Millard, San Francisco, Calif. Typewriter device. No. 1,382,417; June 21; v. 287; p. 508.
- Edson, John T., New York, N. Y. Whirling toy. No. 1,374,002; Apr. 5; v. 285; p. 122.
- Edstrom, Earnest E., Whitefish, Mont. Sheave-block. No. 1,378,844; May 24; v. 286; p. 653.
- Edstrom Machinery Company, et al. (See Edstrom, Otto E., assignor.)
- Edstrom, Otto E., San Francisco, Calif., assignor of one-third to A. B. Olston, Barrington, and two-thirds to Edstrom Machinery Company, Gary Station, Ill. Wrapping-machine. No. 1,375,369; Apr. 19; v. 285; p. 487.
- Edward Valve and Manufacturing Company. (See Spreitzer, Lawrence, assignor.)
- Edwards, Arthur, St. Louis, Mo. Turning device for auto-headlights. No. 1,369,917; Mar. 1; v. 284; p. 31.
- Edwards, August O., El Centro, Calif. Sliding gate. No. 1,370,296; Mar. 1; v. 284; p. 102.
- Edwards, Bernard C. (Tunstall, Walter E., assignor.)
- Edwards, Calvin H., Spirit Lake, and G. W. Emery, Arnolds Park, Iowa. Toy. No. 1,364,984; Jan. 11; v. 282; p. 225.
- Edwards, Charles F., Ottawa, Ontario, Canada. Toy railway. No. 1,390,891; Sept. 13; v. 290; p. 359.
- Edwards, Charles K., Chingford, and A. S. Colling, Finchley, London, England. Automobile vehicle. No. 1,386,557; Aug. 2; v. 289; p. 115.
- Edwards, Christopher B., deceased; S. B. Edwards, executrix, assignor to Moesch-Edwards Corrugating Company, Covington, Ky. Cleat for sheet-metal roofing. No. 1,376,751; May 3; v. 286; p. 70.
- Edwards, Daniel G., Hopkinsville, Ky. Dusting-machine. No. 1,373,317; Mar. 29; v. 284; p. 893.
- Edwards, Daniel G., Hopkinsville, Ky. Powder-distributor. No. 1,373,318; Mar. 29; v. 284; p. 893.
- Edwards, Ernest W., Carshalton, England. Body for motor-cars and other motor and railway vehicles. No. 1,396,737; Nov. 15.
- Edwards, George W., assignor to The Commercial Savings Bank and Trust Company, Toledo, Ohio. Automatic train-stopping device. No. 1,397,123; Nov. 15.
- Edwards, Harry T., assignor of one-half to Ajax Foundry Company, San Francisco, Calif. Casting-core. No. 1,384,438; July 12; v. 288; p. 294.
- Edwards, James M., Cedar Heights, assignor to Associated Manufacturers Company, Waterloo, Iowa. Impulse-starter. No. 1,371,023; Mar. 8; v. 284; p. 286.
- Edwards, James N., Skiatook, Okla. Pump-jack. No. 1,392,310; Oct. 4.
- Edwards, Lewis E. (See Olsen, J. J., and Edwards.)
- Edwards, Lorin. (See Van Brunt, C. W., and Edwards.)
- Edwards, Louis C., Ellington, Conn. Vest-pocket check-protector. No. 1,399,703; Dec. 6.
- Edwards, Louis F., Noble, La. Wire-stretcher. No. 1,374,838; Apr. 12; v. 285; p. 323.
- Edwards Manufacturing Company, The. (See Brown, Silas B., assignor.)
- Edwards, O. M., Company. (See Chaffee, Edward F., assignor.)
- Edwards, Robert, Martins Ferry, Ohio. Mechanism for opening sheets. No. 1,372,013; Mar. 22; v. 284; p. 597.
- Edwards, Sadie B., executrix. (See Edwards, Christopher B.)
- Edwards, Thomas, Milton, Mass. Adhesive cement and making same. No. 1,374,992; Apr. 19; v. 285; p. 415.
- Edwards, Vernon B., Middletown, Ind. Washing-machine tub. No. 1,386,245; Aug. 2; v. 289; p. 57.
- Edwards, Victor E., assignor to Morgan Construction Company, Worcester, Mass. Reversing apparatus for heating-furnaces. No. 1,367,657; Feb. 8; v. 283; p. 211.
- Edwards, William A., assignor, by mesne assignments, to W. Reid, Chicago, Ill. Carbureter. No. 1,375,684; Apr. 26; v. 285; p. 580.
- Edwards, William A., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Carbureter. No. 1,390,681; Sept. 13; v. 290; p. 318.
- Edwards, William D., Monte Vista, Colo. Apparatus for dehydrating or drying food products and other materials. No. 1,369,411; Feb. 22; v. 283; p. 637.
- Edwards, William E., Johnson City, and H. O. Stalker, Binghamton, N. Y. Size and style stamp for insoles and outsoles of shoes. No. 1,391,175; Sept. 20; v. 290; p. 479.



*Alphabetical list of patentees—Continued.*

- Edwards, William H., Grand Rapids, Mich. Covering for books. No. 1,375,040; Apr. 19; v. 285; p. 425.
- Edwards, William H., Grand Rapids, Mich. Typewriter. No. 1,387,842; Aug. 16; v. 289; p. 498.
- Edwards, William H., Annandale, near Sydney, New South Wales, Australia. Game-scoring device. No. 1,386,996; Aug. 9; v. 289; p. 277.
- Edwards, William R., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Sizing-machine. No. 1,389,036; Aug. 30; v. 289; p. 845.
- Edwards, William T., San Diego, Calif. Mechanism for imparting an oscillatory movement to a driven element. No. 1,387,697; Aug. 16; v. 289; p. 468.
- Edwinson, Louis A., Topeka, Kans. Ratchet-wrench. No. 1,391,619; Sept. 20; v. 290; p. 569.
- Eells, Frank B., Chicago, Ill., assignor to International Time Recording Company of New York. Three-ribbon recorder. No. 1,388,177; Aug. 23; v. 289; p. 619.
- Een, Johannes B., Voss, Norway. Building structure. No. 1,371,744; Mar. 15; v. 284; p. 489.
- Een, Johannes B., Voss, Norway. Joint-closure. No. 1,389,557; Aug. 30; v. 289; p. 848.
- Efficiency Electric Corporation. (See Dean, William W., assignor.)
- Efficient Gas Power Company, The. (See Franklin, Joseph, assignor.)
- Efficient Gas Power Company, Limited, The. (See Phillips, Stanley, assignor.)
- Efratiades, Eustace D., Newark, N. J. T-square. No. 1,389,864; Sept. 6; v. 290; p. 61.
- Egan, Charles E. (See Canova, P. J., Jr., and Egan.)
- Eger, Ernst, Detroit, Mich., assignor to Morgan & Wright. Liquid-measuring pump. No. 1,389,547; Aug. 30; v. 289; p. 946.
- Eger, Ernst, Detroit, Mich., assignor to Morgan & Wright. Pump and similar apparatus. No. 1,389,548. Aug. 30; v. 289; p. 946.
- Egan, George F. (See Stern, C., and Egan.)
- Egan, James, Chicago, Ill. Spring-relief device for vehicles. No. 1,369,918; Mar. 1; v. 284; p. 31.
- Egan, James H., Philadelphia, Pa. Vending-machine. No. 1,365,469; Jan. 11; v. 282; p. 318.
- Egan, John, Memphis, Tenn. Tire-rim. No. 1,368,493; Feb. 15; v. 283; p. 420.
- Egar, Lorentz E., and N. C. L. Wilhjelm, Brooklyn, N. Y., assignor to Automatic Temperature Control Co. Automatic valve-regulators. No. 1,397,680; Nov. 22.
- Egbert, Charles C., Niagara Falls, N. Y. Pressure-relief device. No. 1,394,072; Oct. 18.
- Ege, Alfred, Sioux Falls, S. D. Controlling device for windmills. No. 1,397,802; Nov. 22.
- Egeland, Oscar, McVillie, N. D. Time-controlled feeding device. No. 1,392,311; Oct. 4.
- Eger, Louis, assignor of one-half to J. L. Martin, Brooklyn, N. Y. Loading device. No. 1,378,014; May 17; v. 286; p. 421.
- Egerton, Clifford W., and J. W. Hanf, Brooklyn, N. Y. Hose-supporter. No. 1,376,750; May 3; v. 286; p. 70.
- Egerton, Henry C., Ridgewood, N. J. Reinforced gripping rubber shoe-sole. No. 1,370,798; Mar. 8; v. 284; p. 244.
- Egerton, Henry C., Ridgewood, N. J. Arch-supporting insole. No. 1,370,799; Mar. 8; v. 284; p. 244.
- Egerton, Henry C., Ridgewood, N. J. Making extruded fibrous shapes. No. 1,370,800; Mar. 8; v. 284; p. 244.
- Egerton, Henry C., Ridgewood, N. J. Automobile-tire. No. 1,382,718; June 28; v. 287; p. 620.
- Egerton, Henry C., Ridgewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,400,039; Dec. 13.
- Egerton, Henry C., Ridgewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic device. No. 1,383,700; July 5; v. 288; p. 92.
- Egerton, Henry C., Passaic, N. J. Shoe. No. 1,370,797; Mar. 8; v. 284; p. 244.
- Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wave distribution. No. 1,365,470; Jan. 11; v. 282; p. 319.
- Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone apparatus. No. 1,365,898; Jan. 18; v. 282; p. 442.
- Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Diaphragm and making such diaphragm. No. 1,393,515; Oct. 11.
- Egerton, Henry C., Passaic, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Coll terminal. No. 1,400,038; Dec. 13.
- Eggenweiler, Charles W., assignor to General Aluminum & Brass Mfg. Company, Detroit, Mich. Lining bearing-backs. No. 1,399,252; Dec. 6.
- Eggers, John H., Company. (See Steele, Herbert H., assignor.)
- Eggers, Walter A., Brooklyn, and T. Davis, New York, N. Y.; said Eggers assignor to said Davis. Making hollow rubber articles. No. 1,400,146; Dec. 13.
- Eggers, William P., Fond du Lac, Wis. Collapsible window. No. 1,376,193; Apr. 26; v. 285; p. 677.
- Eggerth, Henry E., Minneapolis, Minn. Windmill-fan. No. 1,377,328; May 10; v. 286; p. 238.
- Egler, Nickolas F., assignor to Blair Engineering Company, Chicago, Ill. Furnace. No. 1,372,613; Mar. 22; v. 284; p. 712.
- Egler, Nickolas F., Chicago, Ill. Heating-furnace. No. 1,380,095; May 31; v. 286; p. 963.
- Egli, Herman, West Hoboken, N. J., assignor to E-Z Fit Artificial Limb Co. Inc., New York, N. Y. Artificial limb. (Reissue.) No. 15,034; Jan. 25; v. 282; p. 683.
- Egloff, Hermann, Los Angeles, Calif. Valve-lifting device. No. 1,385,436; July 26; v. 288; p. 656.
- Egnell, Axel, Paris, France. Interlocking device. No. 1,392,630; Oct. 4.
- Egry Register Company, The. (See Malm, Axel C. V., assignor.)
- Egry Register Company, The. (See Neth, George J., assignor.)
- Egry Register Company, The. (See Stern, Milton C., assignor.)
- Egry Register Company, The. (See Stern, Milton C., and Tinnerman, assignors.)
- Eguchi, Iwao, Tokyo, Japan. Water-pillow. No. 1,381,067; June 7; v. 287; p. 143.
- Ehehalt, Frederick M. (See Bernard, Theis F., assignor.)
- Ehle, Rex, Council Bluffs, Iowa. Cord tire. No. 1,364,870; Jan. 11; v. 282; p. 203.
- Ehlinger, Louis J. (See Crockett, P. M., Ehlinger, and Powers.)
- Elhne, Arthur J. (See Elhne, John, assignor.)
- Elhne, John, assignor to A. J. Elhne, Milwaukee, Wis. Lawn-edge trimmer. No. 1,374,641; Apr. 12; v. 285; p. 286.
- Ehrenberg, Florence, Spokane, Wash. Sleeping-garment. No. 1,370,008; Mar. 1; v. 284; p. 49.
- Ehrenfeld, Ralph, and N. Hansen, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Controller. No. 1,390,515; Sept. 13; v. 290; p. 283.
- Ehrenfeld, William C., Flemington, N. J. Tube connecting and vulcanizing means. No. 1,364,985; Jan. 11; v. 282; p. 225.
- Ehret, Cornelius D. (See Appleby, T., and Knoll, assignors.)
- Ehret, Cornelius D. (See McCaa, David G., assignor.)
- Ehret, Cornelius D., Philadelphia, Pa. Electrical wave transmission. No. 1,400,591; Dec. 20.
- Ehrhart, Anthony, Blue Island, Ill. Grease-cup. No. 1,399,944; Dec. 13.
- Ehrhart, George L., Titusville, Pa. Handle. No. 1,401,896; Dec. 27.
- Ehrhart, Raymond N., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser. No. 1,364,921; Jan. 11; v. 282; p. 212.
- Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Valve mechanism. No. 1,368,251; Feb. 15; v. 283; p. 372.
- Ehrhart, Raymond N., Edgewood Park, N. J., assignor to Westinghouse Electric & Manufacturing Co. Condenser. No. 1,372,409; Mar. 22; v. 284; p. 673.
- Ehrhart, Raymond N., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Co. Surface condenser. No. 1,372,410; Mar. 22; v. 284; p. 673.
- Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heat-conserving apparatus. No. 1,390,516; Sept. 13; v. 290; p. 283.
- Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Co. Multiple-stage ejector. No. 1,397,924; Nov. 22.
- Ehrhart, Raymond N., assignor to Elliott Company, Pittsburgh, Pa. System for removing air and gases from water. No. 1,401,100; Dec. 20.
- Ehrhart, Raymond N., assignor to Elliott Company, Pittsburgh, Pa. System for removing air and gases from water. No. 1,401,101; Dec. 20.
- Ehrhart, Raymond N., assignor to Elliott Company, Pittsburgh, Pa. System for removing air and gases from water. No. 1,401,116; Dec. 20.
- Ehrhart, Raymond N., and J. A. Powell, Edgewood Park, Pa., assignors to Westinghouse Electric & Manufacturing Company. Automatic shut-off valve for jet-condensers. No. 1,395,265; Nov. 1.
- Ehrlich, Albert H., St. Joseph, Mo. Hinge. No. 1,382,962; June 28; v. 287; p. 666.
- Ehrlich, Charles, deceased; M. Ehrlich, administrator, Brooklyn, N. Y. Wire fabric. No. 1,384,748; July 19; v. 288; p. 439.
- Ehrlich, Leo. (See Peebles, Frank W. L., assignor.)
- Ehrlich, Leo, assignor of one-half to A. S. Partridge and one-half to A. Blair, St. Louis, Mo. Fabric-measuring and cost-computing machine. No. 1,388,454; Aug. 23; v. 289; p. 676.
- Ehrlich, Max, administrator. (See Ehrlich, Charles.)
- Ehrlich, William, Chicago, Ill. Apple paring, coring, and slicing machine. No. 1,384,013; July 5; v. 288; p. 157.
- Ehrlich, William, assignor to Case & Martin Company, Chicago, Ill. Pie-making machine. No. 1,397,272; Nov. 15.
- Ehrmann, George B., Troy, N. Y. Ironing neckbands. No. 1,384,605; July 12; v. 288; p. 329.
- Eibetz, Max. (See Lubet, S., and Eibetz, assignor.)
- Eichberg, Simon, Chicago, Ill. Hose-supporter. No. 1,390,769; Sept. 13; v. 290; p. 335.



## Alphabetical list of patentees—Continued.

- Eichelberger, John D., assignor of one-fourth to E. J. Damm, St. Louis, Mo. Ironing-board. No. 1,381,068; June 7; v. 287; p. 143.
- Eichelberger, Lewis H., Plainfield, N. J., assignor to Ransome Concrete Machinery Company, New York, N. Y. Concrete mixing and distributing apparatus. No. 1,379,174; May 24; v. 286; p. 715.
- Eichengreen Sales Corporation, *et al.* (See Case, William A., assignor.)
- Eichenhofer, Walter F. (See Brown, Jacob S., assignor.)
- Eichensehr, George C., and J. E. Niesner, Johnstown, Pa. Rail-fastener. No. 1,383,089; June 28; v. 287; p. 690.
- Eichens, William R., Johnstown, Pa. Safety device for engines. No. 1,391,724; Sept. 27; v. 290; p. 664.
- Eickhoff, Theodore H. (See Braden, William A., assignor.)
- Eickhoff, Theodore H., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Magazine construction. No. 1,365,234; Jan. 11; v. 282; p. 273.
- Eickhoff, Theodore H., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Automatic gun. No. 1,396,949; Nov. 15.
- Eickman, Elmer H., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Valve. No. 1,375,497; Apr. 19; v. 285; p. 512.
- Eida, Jacob, South Boston, Mass. Cooking-stove. No. 1,399,704; Dec. 6.
- Eidam, Adam, assignor of one-half to G. W. Wilmot, Hazleton, Pa. Carbureter attachment. No. 1,367,772; Feb. 8; v. 283; p. 233.
- Eidmann, Frank L., assignor to E. N. White, J. L. Wyckoff, and G. F. Jenks, trustees, Holyoke, Mass. Coupling device for trucks. No. 1,382,896; June 28; v. 287; p. 653.
- Eiermann, Charles M., New York, N. Y. Automobile attachment. No. 1,390,433; Sept. 13; v. 290; p. 266.
- Eiffert, William. (See Cates, C. S., and Peters, assignors.)
- Eiffaender, Ludwig. (See Luttringhaus, A., and Eiffaender.)
- Elghmy, Elmer C. (See Lake, George L., assignor.)
- Eikler, Charles, Chicago, Ill., assignor, by mesne assignments, to Wirebounds Patents Company, New York, N. Y. Box-making machine. No. 1,365,471; Jan. 11; v. 282; p. 319.
- Eilers, Frank B., Fort Wayne, Ind., assignor to Tokheim Oil Tank and Pump Company. Measure for dispensing liquids. No. 1,401,897; Dec. 27.
- Eilers, Herman D., Ireton, Iowa. Automobile-lock. No. 1,377,819; May 10; v. 286; p. 332.
- Eimke, Charles, Brooklyn, N. Y. Valve-control float. No. 1,390,892; Sept. 13; v. 290; p. 360.
- Einhellig, Peter T. (See Mann, Charles A., assignor.)
- Einsele, George N., Cedar Lake, Ind. String-truing machine. No. 1,385,367; July 26; v. 288; p. 642.
- Eischeid, Joseph F., Oelwein, Iowa. Adjustable crosshead. No. 1,371,745; Mar. 15; v. 284; p. 489.
- Eisele, Henry, Decatur, Ill. Device for quartering driving-wheels of locomotives. No. 1,387,533; Aug. 16; v. 289; p. 435.
- Eisele, Herman. (See Mueller, C. B., and Eisele.)
- Eisele, Otto J., New York, N. Y. Vehicle-tire. No. 1,380,786; June 7; v. 287; p. 88.
- Eisele, Otto J., assignor of one-half to John B. Kaiser, New York, N. Y. Bolt and nut lock. No. 1,365,775; Jan. 18; v. 282; p. 418.
- Eisemann Magneto Corporation. (See Andrew, Frederick W., assignor.)
- Eisen, Charles. (See Davis, John E., assignor.)
- Eisenbach, Ernest E., Philadelphia, Pa. Oil-burner. No. 1,368,908; Feb. 15; v. 283; p. 501.
- Eisenhand, Henry G., Denver, Colo. Photoprinting device. No. 1,392,312; Oct. 4.
- Eisenbauer, Charles J., Lebanon, Pa. Knife-sharpener. No. 1,365,161; Jan. 11; v. 282; p. 259.
- Eisenkraft, Emil, assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Paper box or carton. No. 1,370,525; Mar. 8; v. 284; p. 191.
- Eisenmann, Carl W., Nebraska City, Nebr. Magnetic compass. No. 1,380,949; June 7; v. 287; p. 120.
- Eisenstadt Manufacturing Company. (See Sabourin, Jean B., assignor.)
- Eisenstadt Manufacturing Company. (See Wallenthin, Walfrid, assignor.)
- Eisenschmid, William, Etna, Pa., assignor to Pittsburgh Taximeter Company. Printing-taximeter. No. 1,392,631; Oct. 4.
- Eisler, Joseph M., Detroit, Mich. Internal-combustion engine. No. 1,371,550; Mar. 15; v. 284; p. 453.
- Eisman, Adam J., Buffalo, N. Y. Door-check. No. 1,398,010; Nov. 22.
- Eisner, Samuel M., Newark, N. J. Alarm device. No. 1,372,678; Mar. 29; v. 284; p. 765.
- Eisner, Sigmund, Company. (See Winch, Francis W., assignor.)
- Elititis, John A., Chicago, Ill. Automatic stopping and starting device for phonographs. No. 1,390,682; Sept. 13; v. 290; p. 318.
- Ek, Amanda, Gwinner, N. D. Skirt-holder. No. 1,365,472; Jan. 11; v. 282; p. 319.
- Ek, Emil, Portland, Me., assignor to Adde & Company. Brake for lineal-measuring registers. No. 1,392,572; Oct. 4.
- Ek, Emil, Portland, Me., assignor to Adde & Company. Register for lineal-measuring. No. 1,392,573; Oct. 4.
- Ekas, Levi B., Williamstown, W. Va. Well-drilling machine. No. 1,397,758; Nov. 22.
- Ekberg, Nels, St. Paul, Minn. Dump-car. No. 1,387,968; Aug. 16; v. 289; p. 521.
- Ekberg, Nels, St. Paul, Minn. Rail-spiking device for railways. No. 1,395,703; Nov. 1.
- Ekely, John B., and W. B. Stoddard, Boulder, Colo. Obtaining pure tungstates. No. 1,399,705; Dec. 6.
- Ekern, Alfred, Minneapolis, and R. A. Tanner, St. Paul, Minn. Portable milking-machine. No. 1,377,244; May 10; v. 286; p. 221.
- Ekco Engineering Company. (See Darrah, William A., assignor.)
- Eklöf, John H. (See Hawksworth, F. G., and Eklöf.)
- Eklund, Georg, Berkeley, Calif. Child's velocipede. No. 1,387,771; Aug. 16; v. 289; p. 484.
- Eklund, Torgny A., Stockholm, and C. G. Löfveberg, Visby, Sweden. Insulating and building material and producing same. No. 1,392,127; Sept. 27; v. 290; p. 746.
- Eklundh, John G. G., Columbus, Ohio, assignor to Universal Milking Machine Company. Pulsator for milking-machines. No. 1,386,246; Aug. 2; v. 289; p. 57.
- Ekman, Fred, Honolulu, Hawaii. Turret tool-holder. No. 1,392,128; Sept. 27; v. 290; p. 746.
- Ekman, Gunner A., Winchester, Mass. Multiple-gun-firing apparatus or bomb. No. 1,385,120; July 19; v. 288; p. 517.
- Ekstrand, Charles, deceased, Brooklyn, N. Y.; Mabel Ekstrand, executrix. Apparatus for treating oil. No. 1,388,415; Aug. 23; v. 289; p. 668.
- Ekstrand, Mabel, executrix. (See Ekstrand, Charles.)
- Ekström, Gunnar C., B. A. Johnson, and G. Orström, assignors to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden. Machine for making cartons. No. 1,379,254; May 24; v. 286; p. 730.
- Ekstrom, Eric S., *et al.* (See Swenson, Carl E., assignor.)
- Elchinko, Michael, Cloverdale, British Columbia, Canada. Well-drill. No. 1,368,126; Feb. 8; v. 283; p. 300.
- Elden, Alf L., Alvarado, Minn. Direct-current electric motor. No. 1,386,609; Aug. 9; v. 289; p. 199.
- Elder, Fredrick L., Dayton, Wash. Vehicle-signal. No. 1,366,724; Jan. 25; v. 282; p. 648.
- Elder, George W. (See Elder, John R. and G. W.)
- Elder, James R., Oakland, Calif. Collapsible bed. No. 1,372,659; Mar. 22; v. 284; p. 721.
- Elder, John, New York, N. Y. Pipe-coupling. No. 1,365,025; Jan. 11; v. 282; p. 234.
- Elder, John, Raymond, Alberta, Canada. Railway-switch. No. 1,369,733; Feb. 22; v. 283; p. 700.
- Elder, John R., Sioux City, and G. W. Elder, Forest City, Iowa. Animal-trap. No. 1,393,516; Oct. 11.
- Elder, Matthew L., Pittsfield, Mass., assignor to General Electric Company. Casing for electrical apparatus. No. 1,394,982; Oct. 25.
- Elder, William J., Oswego, N. Y. Feed mechanism for wood-reworking machines. No. 1,378,845; May 24; v. 286; p. 653.
- Elder, William J., and C. N. Morehouse, Oswego, N. Y., assignors to The Diamond Match Company, Chicago, Ill. Apparatus for applying adhesive to wrapping-paper. No. 1,399,051; Dec. 6.
- Eldred, Byron E., New York, N. Y., assignor to The Commercial Research Company. Making styli and products thereof. No. 1,396,412; Nov. 8.
- Eldredge, Elmer E. (See Carpenter, L. E., and Eldredge.)
- Eldredge, Elmer E., Sidney, N. Y. Sterilizing cheese. No. 1,374,141; Apr. 5; v. 285; p. 148.
- Eldridge, Leonard L., Dallas, Tex. Building construction. No. 1,375,955; Apr. 26; v. 285; p. 632.
- Eldridge, Robert A., Herne Bay, England. Navigational instrument. No. 1,391,305; Sept. 20; v. 290; p. 506.
- Electric Auto-Lite Corporation. (See Buchenberg, Alvin E., assignor.)
- Electric Auto-Lite Corporation. (See Wollenweber, Paul F., assignor.)
- Electric Boat Company. (See Grieshaber, Hugo E., assignor.)
- Electric Boat Company. (See Gunn, Thomas M., assignor.)
- Electric Boiler Corporation. (See Nicholl, John S., assignor.)
- Electric Controller & Manufacturing Company, The. (See Rippl, Charles H., assignor.)
- Electric Controller & Manufacturing Company, The. (See Stratton, Harry E., assignor.)
- Electric Flasher Company. (See Wood, Hubert K., assignor.)
- Electric Fruit Marking Co. (See Neuenschwander, Lewis, assignor.)
- Electric Furnace Company, The. (See Baily, T. F., and Cope, assignors.)
- Electric Gun Corporation. (See MacLaren, Frederick B., assignor.)
- Electric Hose and Rubber Company, The. (See Griffin, Alvah M., assignor.)
- Electric Outlet Company. (See White, Ernest C., assignor.)
- Electric Phonograph Corporation. (See Thorpe, Walter W., assignor.)
- Electric Railway Improvement Company, The. (See Cadwell, Charles A., assignor.)
- Electric Railway Improvement Company. (See Stanton, Mark T., assignor.)



- Electric Service Supplies Company. (See Darling, Lewis A., assignor.)  
 Electric Service Supplies Company. (See Lewis, H. G., and Mayer, assignors.)  
 Electric Service Supplies Company. (See Mayer, Walter S., assignor.)  
 Electric Storage Battery Company, The. (See Flanders, Louis, H., assignor.)  
 Electric Storage Battery Company. (See Palmer, William H., Jr., assignor.)  
 Electric Twin Water Purification Corporation. (See Roche, J. and Parker, assignors.)  
 Electric Vacuum Cleaner Company. (See Brintzenhofe, Otto, assignor.)  
 Electric Vacuum Cleaner Company. (See Rosenfield, William W., assignor.)  
 Electric Vaporizing Nozzle Company, The. (See Griffin, Archibald W., assignor.)  
 Electric Vulcanizing Rubber Company, The. (See Burke, Wilber B., assignor.)  
 Electric Water Sterilizer and Ozone Company. (See Hartman, Harry B., assignor.)  
 Electric Water Sterilizer and Ozone Company. (See Hartman, Harry B. and F. E., assignors.)  
 Electric Wheel Co., Associates. (See Knudsen, Karsten, assignor.)  
 Electrical Engineers Equipment Co. (See Christensen, Christen, assignor.)  
 Electrical Engineers Equipment Company. (See Calloway, Russell T., assignor.)  
 Electrical Engineers Equipment Company. See Getts, Frank E., assignor.)  
 Electrical Engineers Equipment Company. (See Jacobs, Ernest H., assignor.)  
 Electrical Improvements Limited. (See Gregory, Richard W., assignor.)  
 Electrical Improvements Limited. (See Hunter, P. V., and Beard, assignors.)  
 Electro Chemical Company, The. (See Gerstle, John, assignor.)  
 Electro Chemical Products Company. (See Hoofnagle, William T., assignor.)  
 Electro Dynamic Company. (See Arendt, Morton, assignor.)  
 Electro Dynamic Company. (See Balderston, David N., assignor.)  
 Electro Metallurgical Company. (See Becket, Frederick M., assignor.)  
 Electrolthermal Company. (See Homan, John G., assignor.)  
 Electro-Thermophore Company. (See Lidberg, Tiodolf, assignor.)  
 Electrolytic Oxy-Hydrogen Laboratories. (See Levin, Isaac H., assignor.)  
 Electrolytic Zinc Company of Australasia Proprietary Limited. (See Gepp, Herbert W., assignor.)  
 Electrostop Manufacturing Company. (See Kalteyer, Frederick J., assignor.)  
 Elektrizitätswerk Lonza. (See Lichtenhahn, Theodor, assignor.)  
 Electron Chemical Company. (See Allen, H. I., and Fox, assignors.)  
 Electron Chemical Company. (See Allen, Herbert I., assignor.)  
 Electron Chemical Company. (See Allen, Edward A. and H. I., assignors.)  
 Elenga, Lammert, Sterling, Nebr. Window-frame. No. 1,382,348; June 21; v. 287; p. 495.  
 Elevator Company of America. (See Schakel, Jacob D., assignor.)  
 Elevator Safety Appliance Company. (See Brush, Frederick F., assignor.)  
 Elevator Safety Appliance Company. (See Groat, L. E., and Brush, assignors.)  
 Elevator Supplies Co., Inc. (See Cunningham, Charles G., assignor.)  
 Eli Lilly and Company, The. (See Davis, Alex B., assignor.) (Reissue.)  
 Eli Lilly and Company, The. (See Rhodehamel, Harley W., assignor.)  
 Elias, Amish J., New York, N. Y. Dolly-bar. No. 1,373,606; Apr. 5; v. 285; p. 44.  
 Elias, Otto, Rochester, Pa. Plane. No. 1,387,969; Aug. 16; v. 289; p. 622.  
 Eliaser, Ralph, San Francisco, Calif. Game. No. 1,391,306; Sept. 20; v. 290; p. 506.  
 Eliasoff, Abraham L., New York, and C. Birnbaum, Brooklyn, N. Y. Stone-mounting. No. 1,368,909; Feb. 15; v. 283; p. 501.  
 Eliel, Oscar H., La Salle, Ill. Hermetically-sealed casket. No. 1,369,919; Mar. 1; v. 284; p. 31.  
 Eligh, Charles A., assignor to Long Manufacturing Company, Detroit, Mich. Edging machine for automatically perforating and cutting off strips of metal. No. 1,379,005; May 24; v. 286; p. 685.  
 Eligh, Charles A., assignor to Long Manufacturing Company, Detroit, Mich. Method and machine for making radiator-tubes. No. 1,379,006; May 24; v. 286; p. 684.  
 Elikor, James W. (See Bearfield, Thomas N., assignor.)  
 Elin, Nathaniel. (See Reich, Valdemar F., assignor.)  
 Elliott-Nichols Manufacturing Company. (See Severance, H. W., and Hemphill, assignors.)  
 Elisberg, Benjamin, New York, and W. Sheff, Brooklyn, N. Y. False-teeth attachment. No. 1,384,717; July 12; v. 288; p. 353.  
 Elisée de Loisy, Marie C. J., Paris, France. Process and plant for industrially carrying out chemical reactions in an artificial atmosphere. No. 1,366,720; Jan. 25; v. 282; p. 647.  
 Elite Manufacturing Company. (See Burkholder, John H., assignor.)  
 Elloxman Paper Core Co. (See Reagles, Annie L., assignor.)  
 Elizabeth Auto Parts Manufacturing Company. (See Conord, Eugene L., assignor.)  
 Elkin, Margaret R. (See Knorr, Frederick J., assignor.)  
 Elkin, Margaret R. (See Lloyd, Lemuel, assignor.)  
 Elledge, Robert B., Tampa, Fla. Desk. No. 1,374,070; Apr. 5; v. 285; p. 134.  
 Eller, Otto H., New York, N. Y. Flying toy. No. 1,385,073; July 19; v. 288; p. 507.  
 Ellerbeck, Ben B., Washington, D. C. Convertible automobile-top. No. 1,379,906; May 31; v. 286; p. 927.  
 Ellerman, Edward, assignor of fifty-one one-hundredths to J. E. Mitchell, Littleton, Colo. Automobile-trailer. No. 1,385,437; July 26; v. 288; p. 656.  
 Ellert, Charles O., Brooklyn, N. Y. Safety-pin. No. 1,385,743; July 26; v. 288; p. 719.  
 Ellett, Stephen A., Elmira, N. Y. Starter for engines. No. 1,400,040; Dec. 13.  
 Ellicott, Valcoulon L., Baltimore, Md. Method of and apparatus for determining photographic exposures. No. 1,385,940; July 26; v. 288; p. 758.  
 Elling, Jens W. A., assignor to A/S Myrens Verksted, Christiania, Norway. Revolving suction-strainer. No. 1,377,765; May 10; v. 286; p. 321.  
 Elling, Jens W. A., assignor to A/S Myrens Verksted, Christiania, Norway. Wet centrifugal compressor. No. 1,385,318; July 19; v. 288; p. 556.  
 Ellinger, William H., Wichita Falls, Tex. Well-drill wrench. No. 1,396,099; Nov. 8.  
 Ellinger, William H., Wichita Falls, Tex. Well-drill wrench. No. 1,397,044; Nov. 15.  
 Ellings, Soren A., New York, N. Y. Deviascope. No. 1,374,142; Apr. 5; v. 285; p. 148.  
 Ellington, Aaron D., Springfield, Ill. Pulsator for milking-machines. No. 1,381,111; June 14; v. 287; p. 203.  
 Elliot, Walter, Bicknell, Calif. Bailer. No. 1,365,899; Jan. 18; v. 282; p. 442.  
 Elliott, Bamford, Worcester, Mass. Suitcase. No. 1,393,273; Oct. 11.  
 Elliott Company. (See Ehrhart, Raymond N., assignor.)  
 Elliott, Dargan P., Rimini, S. C. Fence-wire clamp. No. 1,388,701; Aug. 23; v. 289; p. 723.  
 Elliott, Edison R., Champaign, Ill. Crank-shaft-lapping tool. No. 1,375,284; Apr. 19; v. 285; p. 472.  
 Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)  
 Elliott, Harold F., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Arc-radio-oscillation generator. No. 1,385,121; July 19; v. 288; p. 518.  
 Elliott, Harold F., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Radiotelegraphy. No. 1,399,945; Dec. 13.  
 Elliott, Harold W., assignor to Packard Motor Car Company, Detroit, Mich. Fine-graded positive lock for nuts. No. 1,369,332; Feb. 22; v. 283; p. 622.  
 Elliott, Harry D., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,366,527; Jan. 25; v. 282; p. 609.  
 Elliott, Horace W., assignor of one-half to W. A. Gray, Greenfield, Ohio. Display-rack. No. 1,401,057; Dec. 20.  
 Elliott, Irving H., New York, assignor to H. E. Campbell, Mount Vernon, N. Y. Metal window-frame. No. 1,375,139; Apr. 19; v. 285; p. 444.  
 Elliott, Irving H., New York, assignor to H. E. Campbell, Mount Vernon, N. Y. Sill for metal window-frames. No. 1,382,719; June 28; v. 287; p. 620.  
 Elliott, Lyman M., Indianapolis, Ind. Saw-filing-machine attachment. No. 1,400,427; Dec. 13.  
 Elliott, Norman, Cleveland, Ohio. Lamp for vehicles. No. 1,389,037; Aug. 30; v. 289; p. 845.  
 Elliott, Otto A. (See Fetzer, W. Freres, and Elliott.)  
 Elliott, Per V., Norwood, Ohio. Vertical collision-bumper. No. 1,392,001; Sept. 27; v. 290; p. 721.  
 Elliott, Richard P., Lexington, Mass. Manufacturing piston-rings. No. 1,386,997; Aug. 9; v. 289; p. 277.  
 Elliott, Richard P., Lexington, Mass. Piston-ring. No. 1,386,998; Aug. 9; v. 289; p. 278.  
 Elliott, Sterling, Newton, Mass. Controlling means for centrifugal oil-burners. No. 1,371,231; Mar. 15; v. 284; p. 388.  
 Elliott, Stuart R., et al. (See Mayne, John, assignor.)  
 Elliott, Sterling, Newton, Mass. Machine for impressing characters on stencil-blanks. No. 1,378,771; May 17; v. 286; p. 567.  
 Elliott, Thaddious V., New York, N. Y. Anti-skidding device. No. 1,390,893; Sept. 13; v. 290; p. 360.  
 Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Car-truck. No. 1,365,900; Jan. 18; v. 282; p. 442.  
 Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Steel car construction. No. 1,375,786; Apr. 26; v. 285; p. 598.



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- Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Steel car construction. No. 1,375,787; Apr. 26; v. 285; p. 599.
- Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Railway-car. No. 1,386,851; Aug. 9; v. 289; p. 248.
- Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Railway-car. No. 1,386,852; Aug. 9; v. 289; p. 248.
- Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Railway-car truck. No. 1,386,853; Aug. 9; v. 289; p. 248.
- Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Double-ended railway-car. No. 1,388,416; Aug. 23; v. 289; p. 668.
- Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Railway-car. No. 1,399,755; Dec. 13.
- Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Company. Package of buttons. No. 1,389,188; Aug. 30; v. 289; p. 875.
- Elliott, William F., De Kalb, Ill. Fork for handling fodder. No. 1,378,772; May 17; v. 286; p. 567.
- Elliott, William H., assignor of one-fourth to W. F. Walter, Washington, D. C. Composite railway-tie. No. 1,371,358; Mar. 15; v. 284; p. 414.
- Elliott, William H., assignor of one-fourth to W. F. Walter, Washington, D. C. Check-valve. No. 1,388,246; Aug. 23; v. 289; p. 633.
- Elliott, William S., Pittsburgh, Pa. Strainer. No. 1,380,114; May 31; v. 286; p. 967.
- Elliott, William S., Pittsburgh, Pa. Cutter for tube-cleaners and other purposes. No. 1,393,613; Oct. 11.
- Elliott, William Y., Deer Lodge, Mont. Harrow. No. 1,388,993; Aug. 30; v. 289; p. 836.
- Ellis, Allan B., Appleton, Wis. Blackboard or slate. No. 1,387,534; Aug. 16; v. 289; p. 435.
- Ellis, Axel E., Boston, Mass. Vehicle-wheel. No. 1,395,099; Oct. 25.
- Ellis, Carl O. and Clyde, Tacoma, Wash. Color medium. No. 1,364,189; Jan. 4; v. 282; p. 28.
- Ellis, Carleton, Montclair, N. J. Preparation of hydrogenating catalysts. No. 1,369,013; Feb. 22; v. 283; p. 560.
- Ellis, Carleton, Montclair, N. J. Culinary product. No. 1,372,614; Mar. 22; v. 284; p. 712.
- Ellis, Carleton, Montclair, N. J. Edible-oil material and producing same. No. 1,372,615; Mar. 22; v. 284; p. 712.
- Ellis, Carleton, Montclair, N. J. Esterified edible product. No. 1,372,616; Mar. 22; v. 284; p. 712.
- Ellis, Carleton, Montclair, N. J. Making catalysts. No. 1,378,336; May 17; v. 286; p. 482.
- Ellis, Carleton, Montclair, N. J. Catalyst and producing same. No. 1,378,337; May 17; v. 286; p. 483.
- Ellis, Carleton, Montclair, N. J. Catalyst for oil-hardening and making. No. 1,378,338; May 17; v. 286; p. 483.
- Ellis, Carleton, Montclair, N. J. Cereal food and making same. No. 1,382,963; June 28; v. 287; p. 666.
- Ellis, Carleton, Montclair, N. J. Making catalysts. No. 1,390,683; Sept. 13; v. 290; p. 319.
- Ellis, Carleton, Montclair, N. J. Regenerating catalytic material. No. 1,390,684; Sept. 13; v. 290; p. 319.
- Ellis, Carleton, Montclair, N. J. Making catalysts. No. 1,390,685; Sept. 13; v. 290; p. 319.
- Ellis, Carleton, Montclair, N. J. Nickel formo-carbonate and making same. No. 1,390,686; Sept. 13; v. 290; p. 319.
- Ellis, Carleton, Montclair, N. J. Adding hydrogen to unsaturated fatty material. No. 1,390,687; Sept. 13; v. 290; p. 319.
- Ellis, Carleton, Montclair, N. J. Removing catalyst from oil. No. 1,390,688; Sept. 13; v. 290; p. 319.
- Ellis, Carleton, Montclair, N. J. Food product containing hydrogenated oil. No. 1,390,689; Sept. 13; v. 290; p. 319.
- Ellis, Carleton, Montclair, N. J. Edible fat and making same. No. 1,390,690; Sept. 13; v. 290; p. 319.
- Ellis, Carleton, Montclair, N. J. Polishing or finishing composition. No. 1,390,691; Sept. 13; v. 290; p. 320.
- Ellis, Carleton, Montclair, N. J. Making gasoline substitute. No. 1,396,999; Nov. 15.
- Ellis, Carleton, Montclair, N. J., assignor, by mesne assignments, to S. B. Hunt, trustee, Mount Kisco, N. Y. Acid liquor and producing same. No. 1,365,044; Jan. 11; v. 282; p. 237.
- Ellis, Carleton, Montclair, N. J., assignor, by mesne assignments, to S. B. Hunt, trustee, New York, N. Y. Separation process of making alcohols. No. 1,365,046; Jan. 11; v. 282; p. 237.
- Ellis, Carleton, Montclair, N. J., assignor, by mesne assignments, to S. B. Hunt, trustee, New York, N. Y. Solvent. No. 1,365,049; Jan. 11; v. 282; p. 237.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Co. Non-dusting cement concrete floor or like article. No. 1,383,268; June 28; v. 287; p. 724.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Co. Oil-proofed container and making same. No. 1,385,941; July 26; v. 288; p. 758.
- Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Company. Concrete coating and the like. No. 1,400,041; Dec. 13.
- Ellis, Carleton, Montclair, N. J., and M. J. Cohen, New York, N. Y., assignors, by mesne assignments, to S. B. Hunt, trustee, Mount Kisco, N. Y. Separating alcohols and hydrocarbons. No. 1,365,048; Jan. 11; v. 282; p. 237.
- Ellis, Carleton, Montclair, N. J., and M. J. Cohen, New York, N. Y., assignors, by mesne assignments, to S. B. Hunt, trustee, Mount Kisco, N. Y. Direct production of ester bodies from unsaturated hydrocarbons. No. 1,365,050; Jan. 11; v. 282; p. 237.
- Ellis, Carleton, Montclair, N. J., and M. J. Cohen, New York, N. Y., assignors, by mesne assignments, to S. B. Hunt, trustee, Mount Kisco, N. Y. Ester bodies from unsaturated hydrocarbons. No. 1,365,051; Jan. 11; v. 282; p. 237.
- Ellis, Carleton, Montclair, N. J., and M. J. Cohen, New York, N. Y., assignors, by mesne assignments, to S. B. Hunt, trustee, Mount Kisco, N. Y. Directly esterifying olefins and product thereof. No. 1,365,052; Jan. 11; v. 282; p. 238.
- Ellis, Carleton, and A. A. Wells, Montclair, N. J., assignors, by mesne assignments, to S. B. Hunt, trustee, Mount Kisco, N. Y. Making ketone bodies. No. 1,365,053; Jan. 11; v. 282; p. 238.
- Ellis, Carleton, and A. A. Wells, Montclair, N. J., assignors, by mesne assignments, to National Carbon Company, Inc., New York, N. Y. Reclaiming dry batteries. No. 1,374,003; Apr. 5; v. 285; p. 122.
- Ellis, Carleton, Montclair, and H. M. Weber, Bloomfield, N. J., assignors to Ellis-Foster Company. Making artificial resins. No. 1,381,863; June 14; v. 287; p. 344.
- Ellis, Charles S., Chicago, Ill. Band-dating stamp. No. 1,371,232; Mar. 15; v. 284; p. 388.
- Ellis, Clyde. (See Ellis, Carl O. and C.)
- Ellis, Edward E., and H. A. Thomas, Alhambra, Calif. Tire-carrier. No. 1,387,772; Aug. 16; v. 289; p. 484.
- Ellis-Foster Company. (See Ellis, C., and Weber, assignors.)
- Ellis-Foster Company. (See Ellis, Carleton, assignor.)
- Ellis-Foster Company. (See Weber, Harry M., assignor.)
- Ellis, Frank, Benton Harbor, Mich. Fastener-applying device. No. 1,367,363; Feb. 1; v. 283; p. 96.
- Ellis, Frank, Ames, Iowa. Automobile-bumper. No. 1,396,628; Nov. 8.
- Ellis, George D., & Sons. (See Ellis, John D., assignor.)
- Ellis, Harry E., Leesburg, Fla. Pulp-bleaching apparatus. No. 1,375,285; Apr. 19; v. 285; p. 472.
- Ellis, Herbert, Singapore, Straits Settlements, assignor to Linotype and Machinery Limited, London, England. Means for composing tabular matter in typographical composing and casting machines. No. 1,377,820; May 10; v. 286; p. 332.
- Ellis, James, London, England. Collapsible crate, box, and the like. No. 1,374,993; Apr. 19; v. 285; p. 415.
- Ellis, James H., assignor of one-half to J. Schuster, Milwaukee, Wis., and one-half to L. E. Collins, Kings Mills, Ohio. Sound-box. No. 1,369,795; Mar. 1; v. 284; p. 8.
- Ellis, John D., assignor, by mesne assignments, to G. D. Ellis & Sons, Incorporated, Philadelphia, Pa. Can-fastening. No. 1,383,701; July 5; v. 288; p. 92.
- Ellis, Lewis M., assignor to Winslow Safety High Pressure Boiler Company, Chicago, Ill. Heating system. No. 1,399,052; Dec. 6.
- Ellis Resilient Wheel Corporation. (See Romney, Richard R., assignor.)
- Ellis, Roy J., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Cutting and finishing machine. No. 1,372,679; Mar. 29; v. 284; p. 765.
- Ellis, Russell E., assignor to Hannifin Manufacturing Company, Chicago, Ill. Chuck for machine-tools. No. 1,400,272; Dec. 13.
- Ellis, Theodore F., Lena, Ill. Silo. No. 1,399,546; Dec. 6.
- Ellis, Willard H., Cheyenne, Wyo. Guard-rail for railway-bridges. No. 1,366,641; Jan. 25; v. 282; p. 632.
- Ellis, William F., assignor to The Standard Manufacturing Company, Baltimore, Md. Paste-receptacle. No. 1,377,567; May 10; v. 286; p. 283.
- Ellis, William F., Baltimore, Md., and A. J. Garland, Washington, D. C., assignors to The Standard Manufacturing Company, Baltimore, Md. Dispensing-bottle closure. No. 1,377,568; May 10; v. 286; p. 283.
- Ellis, William M., Kenton, Ohio. Spark-plug. No. 1,385,529; July 26; v. 288; p. 676.
- Ellison, Earl J., Maywood, assignor to Ellison Engineering & Furnace Co., Chicago, Ill. Air-heater. No. 1,399,756; Dec. 13.
- Ellison, Edward H., assignor to International Casement Company, Jamestown, N. Y. Window-hinge. No. 1,368,127; Feb. 8; v. 283; p. 300.
- Ellison, Edward H., assignor to Monarch Refillable Fuse Co., Jamestown, N. Y. Electric fuse. No. 1,391,534; Sept. 20; v. 290; p. 553.
- Ellison Engineering & Furnace Co. (See Ellison, Earl J., assignor.)
- Ellison, John D., Union City, Tenn. Garment-fastener. No. 1,365,670; Jan. 18; v. 282; p. 396.
- Ellison, Lenard P., Cullman, Ala. Lamp-housing. No. 1,366,370; Jan. 25; v. 282; p. 577.
- Ellison, Otis, deceased, Albuquerque, N. Mex.; R. J. Ellison, administrator. Furniture. No. 1,399,706; Dec. 6.
- Ellison, R. J., administrator. (See Ellison, Otis.)



- Elliston, James L., Clinton, Mo. Hot-air register. No. 1,390,347; Sept. 13; v. 290; p. 250.
- Ellmann, Ernest E., F. A. Kell, and L. L. Zacharias, St. Louis, Mo.; said Kell and Zacharias assignors to said Ellmann. Washer. No. 1,373,061; Mar. 29; v. 284; p. 842.
- Ellmauer, Josef, assignor, by mesne assignments, to Refrigo Corporation, Milwaukee, Wis. Refrigerating apparatus. No. 1,369,734; Feb. 22; v. 283; p. 701.
- Ellmauer, Josef, assignor to Refrigo Corporation, Milwaukee, Wis. Automatic expansion-valve for refrigerating systems. No. 1,380,787; June 7; v. 287; p. 88.
- Ells, Hallett D., Kansas City, Mo. Dump-body. No. 1,371,152; Mar. 8; v. 284; p. 311.
- Ellsworth, William, assignor of one-half to R. E. MacKellar, Ashland, Ohio. Adjustable deflector for automobile-headlights. No. 1,369,227; Feb. 22; v. 283; p. 602.
- Ellsworth, William, and R. E. MacKellar, Ashland, Ohio. Light-deflector. No. 1,383,702; July 5; v. 288; p. 92.
- Elmen, Gustaf W., Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating metal particles. No. 1,383,703; July 5; v. 288; p. 92.
- Elmen, Samuel, Bundy, Mont. Automatic air-brake coupling. No. 1,365,776; Jan. 18; v. 282; p. 418.
- Elmendorf, Armin, Madison, Wis., assignor to Haskelite Manufacturing Corporation. Forming sheets by gluing pieces edge to edge. No. 1,366,172; Jan. 18; v. 282; p. 495.
- Elmendorf, Armin, Madison, Wis., assignor to Haskelite Manufacturing Corporation. Gluing-machine. No. 1,400,943; Dec. 20.
- Elmes, Charles F., Engineering Works. (See Slater, Harvey, assignor.)
- Elmer, Martin, Hastings, Mich. Stylus-holder for phonograph-reproducers. No. 1,397,835; Nov. 22.
- Elmore, Guy H., Swarthmore, Pa. Jig. No. 1,387,370; Aug. 9; v. 289; p. 352.
- Elphinstone, Alexander C., West Orange, N. J. Adjustable flagstaff-holder. No. 1,373,414; Apr. 5; v. 285; p. 6.
- Elsen, Hubert, Antwerp, Belgium. Device for launching lifeboats. No. 1,380,194; May 31; v. 286; p. 982.
- Elten, Alfred, Jr., Rauxel, Germany. Vehicle-wheel. No. 1,371,551; Mar. 15; v. 284; p. 453.
- Elten, Alfred, Jr., Bremen, Germany. Vehicle-wheel. No. 1,371,552; Mar. 15; v. 284; p. 453.
- Elvers, Hans C., assignor to Gisholt Machine Company, Madison, Wis. Adjusting and locking device for chuck-jaws. No. 1,384,557; July 12; v. 288; p. 319.
- Elvidge, Morris H., New York, N. Y. Roofing. No. 1,365,970; Jan. 18; v. 282; p. 456.
- Elvin, Albert G., Plandome, A. B. Fahnestock, Great Neck, and F. H. Clark, assignors to Elvin Mechanical Stoker Company, New York, N. Y. Fuel-feeding mechanism. No. 1,376,521; May 3; v. 286; p. 27.
- Elvin, Albert G., Plandome, and A. B. Fahnestock, Great Neck, N. Y., assignors to Elvin Mechanical Stoker Company, Dover, Del. Mechanical stoker. No. 1,381,977; June 21; v. 287; p. 425.
- Elvin Mechanical Stoker Company. (See Elvin, A. G., and Fahnestock, assignors.)
- Elvin Mechanical Stoker Company. (See Elvin, A. G., Fahnestock, and Clark, assignors.)
- Elvin, Robert F., et al. (See Hansen, William A., assignor.)
- Elvy, Frank J., Catford, London, England. Boat and the like. No. 1,383,392; July 5; v. 288; p. 28.
- Elvyn, Jacob W., Chicago, Ill. Indicator. No. 1,364,986; Jan. 11; v. 282; p. 225.
- Elwell, Cyril F. (See Lane, Charles J., assignor.)
- Elwell, Norris M., Phoenixville, Pa. Combined priming and auxiliary air-supply apparatus. No. 1,370,801; Mar. 8; v. 284; p. 244.
- Elwell-Parker Electric Company, The. (See Cochran, C. E., and Towson, assignors.)
- Elwell-Parker Electric Company, The. (See Cochran, Clyde E., assignor.)
- Elwell Parker Electric Company, The. (See Muth, John H., assignor.)
- Elwell-Parker Electric Company, The. (See Towson, M. S., and Cochran, assignors.)
- Ely, Alonzo B., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,398,321; Nov. 29.
- Ely, Alonzo B., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,398,322; Nov. 29.
- Ely, Hanson E., Jr., U. S. Navy. Apparatus for measuring distance. No. 1,386,610; Aug. 9; v. 289; p. 199.
- Ely, Hanson E., Jr., U. S. Navy. Telescope. No. 1,386,611; Aug. 9; v. 289; p. 199.
- Elyria Enameled Products, The. (See Gray, William E., assignor.)
- Elyria Iron and Steel Company, The. (See Ferrier, Walter, assignor.)
- Elzl, Peter F., Denver, Colo. Marking-tag. No. 1,385,530; July 26; v. 288; p. 676.
- Embossing Company, The. (See Rutherford, J., and Baker, assignors.)
- Embree, Herbert, Hamilton, Ontario, Canada. Mantle-sewing machine. No. 1,376,324; Apr. 26; v. 285; p. 702.
- Emca Manufacturing Company, The. (See Delaney, James T., assignor.)
- Emeloid Company, The. (See Madan, E. K., and Levine, assignors.)
- Emeno, William H., Chelsea, assignor to Simplex Pneumatic Tire Company, Boston, Mass. Pneumatic tire. No. 1,396,170; Nov. 8.
- Emerson Apparatus Company. (See Emerson, C. J., and Bridgman, assignors.)
- Emerson-Brantingham Company. (See Krieg, Alfred, assignor.)
- Emerson-Brantingham Company. (See Larson, Martin S., assignor.)
- Emerson-Brantingham Company. (See Traphagen, Harry R., assignor.)
- Emerson-Brantingham Company. (See Waterman, L. E., Traphagen, and Waterman, assignors.)
- Emerson-Brantingham Company. (See Waterman, Lewis E., assignor.)
- Emerson, Charles J., Providence, R. I., and P. W. Bridgman, Cambridge, assignors to Emerson Apparatus Company, Boston, Mass. Method of and apparatus for rapid weighing in analytical balance. No. 1,377,569; May 10; v. 286; p. 283.
- Emerson, Edwin L., Braintree, Mass. Heater. No. 1,367,952; Feb. 8; v. 283; p. 267.
- Emerson Electric Manufacturing Company. (See Cornwall, Frederick R., assignor.)
- Emerson Electric Manufacturing Company, The. (See Driy, John A., assignor.)
- Emerson, John H., Syracuse, N. Y. Fruit-picker. No. 1,388,106; Aug. 16; v. 289; p. 549.
- Emerson, Moses M., Ellensburg, Wash. Tamping-roller. No. 1,371,303; Mar. 15; v. 284; p. 403.
- Emerson, Paul S., Tottenville, N. Y. Garment-hanger. No. 1,399,707; Dec. 6.
- Emerson, Victor H., New York, N. Y. Phonographic tablet. No. 1,399,757; Dec. 13.
- Emerson, Victor L., Philadelphia, Pa. Boiler or still. No. 1,365,777; Jan. 18; v. 282; p. 418.
- Emerson, Victor L., Philadelphia, Pa. Apparatus for the conversion of hydrocarbon-oils. No. 1,367,806; Feb. 8; v. 283; p. 240.
- Emerson, Victor L., Philadelphia, Pa. Conversion of hydrocarbon-oils. No. 1,367,807; Feb. 8; v. 283; p. 240.
- Emerson, Victor L., Philadelphia, Pa. Muffler for exhaust-pipes. No. 1,376,263; Apr. 26; v. 285; p. 690.
- Emerson, William F., assignor to Buffalo Metal Goods Company, Buffalo, N. Y. Grease-cup. No. 1,373,805; Apr. 5; v. 285; p. 82.
- Emery, Albert H., Stamford, Conn. Producing hollow castings. No. 1,391,675; Sept. 27; v. 290; p. 654.
- Emery, Charles W., Philadelphia, Pa. Blower. No. 1,364,360; Jan. 4; v. 282; p. 61.
- Emery, Elias J., Lynn, Mass. Sole-tap for boots and shoes. No. 1,382,180; June 21; v. 287; p. 462.
- Emery, Elias J., Lynn, Mass. Resilient heel. No. 1,390,348; Sept. 13; v. 290; p. 350.
- Emery, Frank A. (See Adams, A. A., and Emery.)
- Emery, Frank A., Quincy, and A. A. Adams, Brookline, assignors, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass. Weighing-machine. No. 1,365,094; Jan. 11; v. 282; p. 246.
- Emery, George W. (See Edwards, C. H., and Emery.)
- Emery, Harry T., assignor of one-half to M. O. Dure, Norwood, Ohio. Ash-separator. No. 1,391,178; Sept. 20; v. 290; p. 480.
- Emery, James H., Morsemere, N. J. Hollow casting and producing same. No. 1,373,121; Mar. 29; v. 284; p. 853.
- Emery, James H., New York, N. Y. Gyration machine. No. 1,382,181; June 21; v. 287; p. 463.
- Emery, James H., New York, N. Y. Artificial grapes and producing same. No. 1,390,349; Sept. 13; v. 290; p. 250.
- Emery, Walter E., Peoria, Ill. Sealing shafts or wells. No. 1,394,718; Oct. 25.
- Emhardt, John C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coated article. No. 1,393,355; Oct. 11.
- Emig, Walter R., assignor of one-half to H. S. Bergen, Toledo, Ohio. Rust-proofing composition. No. 1,381,112; June 14; v. 287; p. 204.
- Emiliani, August, Dunmore, and J. Rossini, Olyphant, Pa. Ticket-holder. No. 1,368,910; Feb. 15; v. 283; p. 501.
- Emley, Warren E., Washington, D. C. Making plastic calcined gypsum. No. 1,392,574; Oct. 4.
- Emmenegger, Frank, St. Louis, Mo. Combination automobile-tire tool. No. 1,384,385; July 12; v. 288; p. 283.
- Emmerling, Rudolph C., West Hoboken, N. J. Pantograph. No. 1,383,914; July 5; v. 288; p. 135.
- Emmert, Gus. (See Tischer, Edward R., assignor.)
- Emmert, William H., and E. Minge, Chicago, Ill. Valve-grinder. No. 1,373,181; Mar. 29; v. 284; p. 866.
- Emmet, William L. E., Schenectady, N. Y., assignor to General Electric Company. Flywheel. No. 1,365,473; Jan. 11; v. 282; p. 319.
- Emmet, William L. R., Schenectady, N. Y., assignor to General Electric Company. Ship propulsion. No. 1,373,873; Apr. 5; v. 285; p. 96.



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- Emmons, Charles L., Cranford, N. J., assignor to The Aeolian Company. Tracking device. No. 1,387,371; Aug. 9; v. 289; p. 352.
- Emmons, Eugene E. (See Emmons, Howard C. and E. E.)
- Emmons, Howard C. and E. E., Syracuse, N. Y. Muffler. No. 1,400,350; Dec. 13.
- Emmrich, Fritz, Freiberg, Germany. Mold-core for concrete bodies. No. 1,390,104; Sept. 6; v. 290; p. 110.
- Emond, James E., Belen, N. Mex. Heel-filler block. No. 1,395,804; Nov. 1.
- Emond, William H., assignor to H. H. Franklin Mfg. Company, Syracuse, N. Y. Vehicle-body-door construction. No. 1,387,773; Aug. 16; v. 289; p. 484.
- Emory, Robert J., Newark, N. J. Reamer. No. 1,378,339; May 17; v. 286; p. 483.
- Empire (Alloy) Steel Corporation, Limited, The. (See Ballantine, William B., assignor.)
- Empire Cream Separator Company. (See McCornack, Herbert, assignor.)
- Empire Cream Separator Company. (See Warnock, Robert, assignor.)
- Empire Transformer Company. (See Mendels, Irwin J., assignor.)
- Empston, Alfred W., London, England. Water-heater. No. 1,367,502; Feb. 1; v. 283; p. 123.
- Emrick, Bert R., and J. K. Porter, Chauk, Upper Burma, India. Deep-well pump. No. 1,380,048; May 31; v. 286; p. 954.
- Emrick, George W., Brooklyn, N. Y. Drill-chuck. No. 1,364,361; Jan. 4; v. 282; p. 61.
- Emtage, Nathaniel C., assignor to C. J. Everett, New Orleans, La. Addition compound for coffee. No. 1,384,692; July 12; v. 288; p. 348.
- Enache, Cociu, Dallas, Tex. Door closer and check. No. 1,398,504; Nov. 29.
- Enache, Cociu, assignor to one-tenth to G. P. Riza, Dallas, Tex. Automatic safety-gate for railway-crossings. No. 1,394,813; Oct. 25.
- Enamelled Steel Sign Company. (See Bacon, William M., assignor.)
- Enard, Hans, assignor of one-half to W. J. Heyl, Pittsburgh, Pa. Variable-speed power-transmitting mechanism. No. 1,380,868; June 7; v. 287; p. 104.
- Enders, Frederick B., De Quincy, La. Forming grain-shocks. No. 1,391,248; Sept. 20; v. 290; p. 495.
- Enders, Hugo, Lehighton, Pa., assignor to The Lehigh Corporation, New York, N. Y. Calculating-machine. No. 1,364,624; Jan. 4; v. 282; p. 111.
- Enders, Hugo, Lehighton, Pa. Dissolving-shutter for cameras. No. 1,388,938; Aug. 30; v. 289; p. 825.
- Endicott, Claude H., Bayard, Nebr. Box-car-door hanger. No. 1,397,410; Nov. 15.
- Endler, Joseph, Rochester, Pa. Making potash. No. 1,380,195; May 31; v. 286; p. 982.
- Endless Belt Corporation. (See Grupe, William F., assignor.)
- Endorf, Charles, Jr., assignor to The Burton Page Company, Chicago, Ill. Milking-machine. No. 1,398,368; Nov. 29.
- En Earl, William J., assignor to The Vacuum Carburetor Company, Monte Vista, Colo. Vacuum-carburetor. No. 1,395,950; Nov. 1.
- Enfield Cycle Company Limited, The. (See Smith, Frank W., assignor.)
- Enfield Cycle Company, Limited, The. (See Smith, Robert W., assignor.)
- Engelbretsen, Alf, assignor to J. Rose, Chicago, Ill. Carrier-selecting device for pneumatic-despatch-tube apparatus. No. 1,383,194; June 28; v. 287; p. 710.
- Engel, Albert W., Chicago, Ill. Picture-mounting device. No. 1,386,771; Aug. 9; v. 289; p. 231.
- Engel, Albert W., Chicago, Ill. Loose-leaf envelop-album. No. 1,397,000; Nov. 15.
- Engel, Charles R., Yoman, Wash. Riveting machinery. No. 1,383,915; July 5; v. 288; p. 136.
- Engel, Frank, assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Pole structure. No. 1,366,562; Jan. 25; v. 282; p. 616.
- Engel, Frank, assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Dash-pot. No. 1,374,914; Apr. 19; v. 285; p. 400.
- Engel, Frank, assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery cell. No. 1,398,847; Nov. 29.
- Engl, Fred A., Johnstown, Pa. Fluid-pressure motor. No. 1,373,415; Apr. 5; v. 285; p. 7.
- Engel, Fred J., assignor to American Platinum Works, Newark, N. J. Safety-catch for pins. No. 1,397,092; Nov. 15.
- Engel, George J., New York, N. Y. Manufacturing ornamentations and finished article derived therefrom. No. 1,395,911; Nov. 1.
- Engel, Godfrey, Sr., Brooklyn, N. Y. Cap construction for sugar-mills. No. 1,383,539; July 5; v. 288; p. 58.
- Engel, Godfrey, Sr., Brooklyn, N. Y. Turning-plate. No. 1,386,999; Aug. 9; v. 289; p. 278.
- Engel, Godfrey, Sr., Brooklyn, assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y. Condenser. No. 1,399,294; Dec. 6.
- Engel, Karl, Arlington, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,377,320; May 10; v. 286; p. 238.
- Engel, Lewis A., *et al.* (See Stenner, Edgar J., assignor.)
- Engel, Oscar F., Hartford, Conn. Sprinkler. No. 1,400,533; Dec. 20.
- Engel, William C., assignor of one-third to E. L. Hohenstein and one-third to F. Schott, St. Louis, Mo. Lifting-jack. No. 1,397,925; Nov. 22.
- Engelbrecht, Reinhold, Essen-Ruhr, Germany. Button. No. 1,386,772; Aug. 9; v. 289; p. 232.
- Engelland, Julius, St. Louis, Mo. Loose-leaf binder. No. 1,397,577; Nov. 22.
- Enger, Martin A., assignor of one-half to R. Spicer, Willmar, Minn. Boiler check shut-off valve. No. 1,399,470; Dec. 6.
- Engvik, Bessie K., Tacoma, Wash. Mattress-turner. No. 1,381,813; June 14; v. 287; p. 335.
- Engineering Corporation, N. C. L. (See Noble, Warren.)
- England, Annie E., Calvert, Md. Oven and warming-closet. No. 1,392,129; Sept. 27; v. 290; p. 746.
- England, Chester H., Kansas City, Mo. Valve mechanism. No. 1,372,874; Mar. 29; v. 284; p. 805.
- England, Frank W. (See Olson, C. G., and England.)
- England, Harry A. (See Stouffer, F. A., and England.)
- England, James F., Lebanon, Mo. Expanding device for wheel-rims. No. 1,399,012; Dec. 6.
- Englander Spring Bed Company, The. (See Bebry, Percival B., assignor.)
- Englander Spring Bed Company. (See Kreuzkamp, August J., assignor.)
- Engle, Chester E., Kansas City, Mo. Thermo control for fire-doors. No. 1,392,002; Sept. 27; v. 290; p. 721.
- Engle, Elmer L. (See Hurley, W. T., and Engle.)
- Engle, Isaiah G. (See Stayman, David F., assignor.)
- Engelhardt, Curt, Butte, Mont. Cloth-holder. No. 1,395,633; Nov. 1.
- Engler, Gustav, New York, N. Y. Feed-bag. No. 1,368,911; Feb. 15; v. 283; p. 501.
- Engler, Richard A., Evanston, Ill. Flying-machine. No. 1,394,814; Oct. 25.
- Engler, Richard A., Evanston, Ill. Flying-machine. No. 1,394,816; Oct. 25.
- Engler, Richard A., Dubuque, Iowa. Electromagnetic rectifier and current-redresser. No. 1,394,815; Oct. 25.
- Englert, Joseph J., Chicago, Ill. Tie device. No. 1,367,029; Feb. 1; v. 283; p. 29.
- Englert, Peter, Lock Haven, Pa. Adjustable shade-roller. No. 1,374,839; Apr. 12; v. 285; p. 323.
- English, Arthur, Kankakee, Ill. Stovepipe-holder. No. 1,368,709; Feb. 15; v. 283; p. 463.
- English, Fred S., New London, Conn. Printing-press. No. 1,375,450; Apr. 19; v. 285; p. 503.
- English, Fred S., assignor to The Babcock Printing Press Manufacturing Company, New London, Conn. Device for holding printing-press cutter-shafts. No. 1,380,644; June 7; v. 287; p. 60.
- Englund, Axel A., Oakland, assignor to American Can Company, San Francisco, Calif. Can-end chuck. No. 1,367,953; Feb. 8; v. 283; p. 267.
- Englund, Axel A., Oakland, assignor to American Can Company, San Francisco, Calif. Can-end seal. No. 1,370,802; Mar. 8; v. 284; p. 245.
- Englund, Carl R., East Orange, N. J., assignor to American Telephone and Telegraph Company. Radiotelephony. (Reissue.) No. 15,089; Apr. 19; v. 285; p. 544.
- Englund, Edwin H. L., Muskegon, Mich. Toy vehicle. No. 1,387,535; Aug. 16; v. 289; p. 436.
- Englund, Ernst E., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Planter. No. 1,377,766; May 10; v. 286; p. 321.
- Englund, Gustaf A., assignor to The Jacobs Manufacturing Company, Hartford, Conn. Drill-chuck. No. 1,369,412; Feb. 22; v. 283; p. 637.
- Englund, Louis J., Oakland, Calif. Combination ship-bevel, miter-square, calipers, and rule. No. 1,379,090; May 24; v. 286; p. 699.
- Engstrand, Gunnar C., Brooklyn, N. Y. Floating dry-dock. No. 1,376,325; Apr. 26; v. 285; p. 703.
- Engstrom, Carl O., Sacramento, Calif. Safety-razor. No. 1,373,874; Apr. 5; v. 285; p. 97.
- Engstrom, Otto L., and H. C. Nelson, South Bend, Ind. Vise. No. 1,392,130; Sept. 27; v. 290; p. 746.
- Enholm, Hilmer N., Bushnell, Ill. Water-elevator. No. 1,365,901; Jan. 18; v. 282; p. 442.
- Enke, Martin F., Oakland, Calif. Ladder. No. 1,385,319; July 19; v. 288; p. 556.
- Enlind, Kanute A., Washington, D. C. Airship. No. 1,365,474; Jan. 11; v. 282; p. 319.
- Enlind, Kanute A., South Nyack, N. Y. Airship. No. 1,387,247; Aug. 9; v. 289; p. 325.
- Enlund, Henning, Syracuse, N. Y. Reamer. No. 1,373,717; Apr. 5; v. 285; p. 65.
- Ennes, Charles E., Chicago, Ill. Can-closing machine. No. 1,369,920; Mar. 1; v. 284; p. 31.
- Ennis, Amelia J., Columbus, Ga. Sadiron-holder for fire-places. No. 1,374,004; Apr. 5; v. 285; p. 122.
- Enos, Ernest, Tampa, Fla. Resilient metal tire. No. 1,381,069; June 7; v. 287; p. 143.
- Enright, Barney P., Perry, Okla. Print-drier. No. 1,400,273; Dec. 13.
- Enright, John W., New Orleans, La. Stationary chemical-mixing fire-extinguisher system. No. 1,397,411; Nov. 15.
- Enriquez, Magdalena de los S., New York, N. Y. Retainer for ladies' cape-collars. No. 1,395,564; Nov. 1.
- Ensign, Emory S., Rockford, assignor to Spengler Loomis Mfg. Co., Chicago, Ill. Chip-receptacle and producing same. No. 1,390,517; Sept. 13; v. 290; p. 284.



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- Ensign, Orville H., Pasadena, Calif. Internal-combustion engine. No. 1,369,639; Feb. 22; v. 283; p. 682.
- Ensign, Roy F., Pasadena, Calif. Means for and method of igniting fuel. No. 1,376,194; Apr. 26; v. 285; p. 677.
- Ensign, William B. (See Wadsworth, H. E., and Ensign.)
- Ensink, Klaas, Hilversum, Netherlands. Locking device for autoclaves. No. 1,382,489; June 21; v. 287; p. 522.
- Ensminger, George C., Cutler, Calif. Combined key and bolt lock. No. 1,381,547; June 14; v. 287; p. 284.
- Ensminger, Howard. (See Davis, W. L., and Ensminger, assignors.)
- Ensor, C. Frank. (See Stansbury, Harry S., assignor.)
- Ensor, Harold E., Canterbury, and J. Sampson, Sydenham, Christchurch, New Zealand. Headlight. No. 1,397,803; Nov. 22.
- Enter, Fred F., Cuyahoga Falls, assignor of one-half to W. Martin, Cleveland, Ohio. Wheel-rim-fastening device. No. 1,379,856; May 31; v. 286; p. 918.
- Enterprise Foundry Company. (See Lougheed, Victor, assignor.)
- Enterprise Manufacturing Company, The. (See Adams, Walter L., assignor.)
- Enterprise Manufacturing Company. (See Pfueger, Charles T., assignor.)
- Enterprise Manufacturing Company of Pennsylvania, The. (See Asbury, Harry E., assignor.)
- Enterprise Manufacturing Company of Pennsylvania, The. (See Brown, John W., Jr., assignor.)
- Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)
- Entekin, George, Pittsburgh, Pa. Washing-machine. No. 1,386,399; Aug. 2; v. 289; p. 86.
- Entwistle, Edward B. (See Brown, W. M., Entwistle, and Stiff.)
- Entwistle, George, Jersey City, N. J. Bridle for brooms or brushes. No. 1,372,014; Mar. 22; v. 284; p. 598.
- Enz, Ezra. (See Abbott, H. E., and Enz.)
- Eoff, John R., Jr. (See Smith, B. H., and Eoff.)
- Epling, Giles T., Welch, W. Va. Hand-guard. No. 1,397,624; Nov. 22.
- Eppl, Herbert J. (See Studebaker, W. M., and Eppl.)
- Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,392,822; Oct. 4.
- Epps, Clinton C., Bristow, Okla. Locking device for vehicles. No. 1,376,085; Apr. 26; v. 285; p. 657.
- Epps, Frank A. (See Patterson, Duncan W., and Epps.)
- Epstein, Albert M., Elmira, N. Y. Dental impression-tray. No. 1,391,535; Sept. 20; v. 290; p. 553.
- Epworth, Charles E., Brooklyn, N. Y. Gas-heater. No. 1,390,518; Sept. 13; v. 290; p. 284.
- Equipment and Engineering Company, The. (See Blaney, T., and Williams, assignors.)
- Equitable Trust Company, The, administrator. (See Roon, Leo, assignor.)
- Erat, Adolph, Easthampton, Mass. Non-skid device for automobiles. No. 1,401,245; Dec. 27.
- Erb, Arthur A., Denver, Colo. Artificial limb. No. 1,400,042; Dec. 13.
- Erb, Lanious P., assignor of one-half to H. G. Anderson, Seattle, Wash. Resilient wheel. No. 1,400,274; Dec. 13.
- Erbeau, Lisa E., Camden, N. J. Convertible chair. No. 1,389,940; Sept. 6; v. 290; p. 77.
- Ercolani, John. (See Fraccascia, F., and Ercolani.)
- Erdle, Reiner W., Weehawken, N. J., assignor to The Cold Light Manufacturing Company. Self-luminous marker for wall-stitches and like objects. No. 1,389,941; Sept. 6; v. 290; p. 77.
- Erhard, Robert P., Juniata, Pa. Eyeglasses or spectacles. No. 1,401,327; Dec. 27.
- Erhard, William, Jersey City, N. J. Automatic feeder for tube-presses. No. 1,369,921; Mar. 1; v. 284; p. 32.
- Erich, Reuben, R., San Jose, Calif. Canning-machine. No. 1,391,307; Sept. 20; v. 290; p. 507.
- Erichsen, Abraham M., Porsgrund, Norway. Electric furnace. No. 1,367,364; Feb. 1; v. 283; p. 96.
- Erickson, Albert, Chicago, Ill., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition apparatus. No. 1,401,058; Dec. 20.
- Erickson, Albert W., Boston, Mass. Machine for grooving type-bars. No. 1,366,313; Jan. 18; v. 282; p. 522.
- Erickson, Axel F., assignor to All-Steel-Equip Company, Aurora, Ill. Metal shelving. No. 1,386,168; Aug. 2; v. 289; p. 41.
- Erickson, Axel F., and D. W. Shiek, assignors to All-Steel-Equip Company, Aurora, Ill. Latch and lock. No. 1,387,643; Aug. 16; v. 289; p. 457.
- Erickson, Axel F., and D. W. Shiek, assignors to All-Steel-Equip Company, Aurora, Ill. Door structure. No. 1,395,671; Nov. 1.
- Erickson, Charles F., Wetmore, Kans. Windmill. No. 1,388,994; Aug. 30; v. 289; p. 886.
- Erickson, Claus E., Des Moines, Iowa. Towel-holder. No. 1,364,190; Jan. 4; v. 282; p. 28.
- Erickson, Claus E., Des Moines, Iowa. Watering device for baby-chicks and the like. No. 1,372,946; Mar. 29; v. 284; p. 820.
- Erickson, Claus E., Des Moines, Iowa. Thermometer protector and shipping-guard. No. 1,397,412; Nov. 15.
- Erickson, Daniel E., Mamaroneck, assignor to Todd Shipyards Corporation, New York, N. Y. Liquid-fuel burner. No. 1,381,459; June 14; v. 287; p. 267.
- Erickson, Eduard S., De Lamere, N. D. Grain-binder attachment. No. 1,390,894; Sept. 13; v. 290; p. 360.
- Erickson, Edward, Fresno, Calif. Toy. No. 1,395,565; Nov. 1.
- Erickson, Edward, assignor to Victor Shoe Machinery Company, Lynn, Mass. Needle and needle-guide actuating mechanism for sewing-machines. No. 1,364,260; Jan. 4; v. 282; p. 42.
- Erickson, Edward, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoe-bottoms. No. 1,373,553; Apr. 5; v. 285; p. 34.
- Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Channel-flap-turning machine. No. 1,381,174; June 14; v. 287; p. 215.
- Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Compressing-machine. No. 1,384,185; July 12; v. 288; p. 241.
- Erickson, Edward M., Ray, Ariz. Miner's lamp. No. 1,366,371; Jan. 25; v. 282; p. 577.
- Erickson, Erik G., Baker, Oreg. Window-counterbalance. No. 1,373,955; Apr. 5; v. 285; p. 113.
- Erickson, Ernest R., Des Moines, Iowa. Machine for applying liquid coating material to articles. No. 1,371,082; Mar. 8; v. 284; p. 297.
- Erickson, Frederic W., East Greenwich, R. I. Conduit-pipe coupling. No. 1,378,015; May 17; v. 286; p. 422.
- Erickson, Frederic W., New York, N. Y. Connecting link or shackle. No. 1,399,946; Dec. 13.
- Erickson, Gustaf A., Detroit, Mich. Signal for automobiles. No. 1,371,304; Mar. 15; v. 284; p. 403.
- Erickson, Henry. (See Bartlett, C. A., and Eastman, assignors.)
- Erickson, Ingvald E., Osakis, Minn., assignor of one-half to F. S. Blochwick. Building structure. No. 1,387,698; Aug. 16; v. 289; p. 468.
- Erickson, J. H. (See Evans, Richard C., assignor.)
- Erickson, James. (See St. John, Miles C., assignor.)
- Erickson, John, assignor to Automatic Electric Company, Chicago, Ill. Substation telephone set. No. 1,373,607; Apr. 5; v. 285; p. 44.
- Erickson, John, assignor to Madison Kipp Corporation, Madison, Wis. Lubricator. No. 1,382,490; June 21; v. 287; p. 522.
- Erickson, Jonas B., Iron Mountain, Mich. Spike-puller. No. 1,380,196; May 31; v. 286; p. 982.
- Erickson, Lorence, Dawson, Minn. Tailor's kit. No. 1,387,970; Aug. 16; v. 289; p. 522.
- Erickson, Marcus A., assignor to Twin City Feeder Manufacturing Company, Minneapolis, Minn. Band-cutter and feeder. No. 1,367,738; Feb. 8; v. 283; p. 227.
- Erickson, Oscar F., and H. P. Olson, Madison, Wis. Balanced-gear drive for automobiles. No. 1,393,208; Oct. 11.
- Erickson, Oscar G., Detroit, Mich. Internal-combustion engine. No. 1,366,448; Jan. 25; v. 282; p. 593.
- Erickson, Oscar J., assignor of one-half to W. A. Wagner, Portland, Oreg. Oil-burner. No. 1,366,314; Jan. 18; v. 282; p. 522.
- Erickson, Theodore, Charlevoix, Mich. Press. No. 1,377,469; May 10; v. 286; p. 265.
- Erickson, Walter E. (See Winnier, A. J., and Erickson.)
- Ericson, Charles G., Toronto, Ontario, Canada. Apparatus for removing excess spelter from hot galvanized articles. No. 1,390,990; Sept. 20; v. 290; p. 442.
- Ericson, Charles O., Helmetta, N. J. Fuel-oil-gas mixer. No. 1,393,517; Oct. 11.
- Ericson, George W., Galesburg, Ill. Marker. No. 1,375,685; Apr. 26; v. 285; p. 581.
- Ericson, Lawrence, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition-distributor. No. 1,385,368; July 26; v. 288; p. 642.
- Ericson, Peter, Tacoma, Wash. Rotary engine. No. 1,383,916; July 5; v. 288; p. 136.
- Ericsson, Charles T., Birmingham, Ala., assignor to Birmingham Machine & Foundry Company. Quick-removable breech-block for hydraulic cylinders. No. 1,369,014; Feb. 22; v. 283; p. 560.
- Ericsson, Herman C., U. S. Army. Antiexplosive and non-inflammable gasoline-tank. No. 1,381,175; June 14; v. 287; p. 216.
- Ericsson, Oscar. (See Hestehave, Rasmus P., assignor.)
- Erie Metal Products Company. (See Grubman, Leo J., assignor.)
- Erik, Emil, assignor of one-half to J. Fetto, Ossining, N. Y. Traction-tread. No. 1,379,336; May 24; v. 286; p. 747.
- Erik, Emil, assignor of two-tenths to E. I. Quick, Ossining, and three-tenths to A. W. Harvey, New York, N. Y. Ground-gripper detachable tread. No. 1,398,893; Nov. 29.
- Erikainen, John, Pelkie, Mich. No. 1,377,821; May 10; v. 286; p. 333.
- Eriksen, Bernhard E., Washington, D. C. Watchmaker's tool. No. 1,364,625; Jan. 4; v. 282; p. 111.
- Erikson, John. (See Rodin, Charles F., assignor.)
- Erikson, Leonard, Malden, Mass. Showcase-reflector. No. 1,380,368; June 7; v. 287; p. 9.
- Erikson, Mauritz L. (See Strom, E. N., and Erikson.)
- Erikson, Peter S., assignor to Brown Portable Conveying Machinery Company, Chicago, Ill. Bearing. No. 1,397,948; Nov. 22.
- Eriksson, Erik O. (See Ljungström, F., Broberg, and Eriksson.)



*Alphabetical list of patentees—Continued.*

- Eriksson, Ernst A. (See Sjökvist, F. G. H., and Eriksson.)  
 Erlar, Bruno G., Oak Lane, Pa., assignor of two-fifths to T. J. Davidson, Camden, N. J., and three-twentieths to J. Richter, Philadelphia, Pa. Resilient tire. No. 1,390,895; Sept. 13; v. 290; p. 360.  
 Erlich, Joe, assignor of one-half to W. Rochells, Chicago, Ill. Automobile-radiator. No. 1,364,087; Jan. 4; v. 282; p. 7.  
 Ermold, George, New York, N. Y. Surgical instrument. (Reissue.) No. 15,071; Mar. 22; v. 284; p. 722.  
 Erne, George, Kreuzlingen, Switzerland. Door-lock. No. 1,398,369; Nov. 29.  
 Ernest, Albert, Paxton, Ill. Folding bed. No. 1,400,534; Dec. 20.  
 Ernsberger, Millard C. (See Davis, Cornelius S., assignor.)  
 Ernst, Hans, Alton, Ill. Integral non-metallic cartridge case. No. 1,364,871; Jan. 11; v. 282; p. 203.  
 Ernst, Johann, Paderborn, Germany. Exhaust-silencer. No. 1,388,107; Aug. 16; v. 289; p. 549.  
 Ernst, Theodore, Bayfield, Wis. Nursery-chair. No. 1,371,475; Mar. 15; v. 284; p. 437.  
 Errington, Franklin A., Stapleton, N. Y. Multiple tapping device and similar tool. No. 1,385,438; July 26; v. 288; p. 657.  
 Errington, Thomas A. E., Seattle, Wash. Extension-light for automobiles. No. 1,398,011; Nov. 22.  
 Error-No, Inc. (See Rothfus, Edward W., assignor.)  
 Ersin, Harold O., Anoka, Minn. Bed-spring frame. No. 1,394,155; Oct. 18.  
 Erskine, James R. (See Pepper, Frank H., assignor.)  
 Erskine-Murray, James, and J. Robinson, Biggin Hill, England. Electromagnetic-wave navigational arrangement. No. 1,379,541; May 24; v. 286; p. 785.  
 Erskine-Murray, James and J. Robinson, Biggin Hill, England. Wireless receiving and transmitting apparatus. No. 1,398,848; Nov. 29.  
 Ervin, Charles L., Los Angeles, Calif. Wave or tide motor. No. 1,376,140; Apr. 26; v. 285; p. 667.  
 Ervin, Preston, Emporia, Kans. Berry cleaner and stemmer. No. 1,384,455; July 12; v. 288; p. 297.  
 Erwa Chemical Manufacturing Company. (See Walch, Nicolas, assignor.)  
 Erwin, Benjamin H., Mishawaka, Ind. Draw-bolt. No. 1,390,105; Sept. 6; v. 290; p. 111.  
 Erwin, G. Reiman, St. Albans, W. Va., assignor to International Bituconcrete Company. Plastic composition and making the same. No. 1,370,637; Mar. 8; v. 284; p. 213.  
 Erwin, Jeremiah, Chicago, Ill. Bottle-cap fluid dispenser and spreader. No. 1,378,016; May 17; v. 286; p. 422.  
 Erwin, Luther E., Covington, Okla. Gas-controlling valve. No. 1,394,615; Oct. 25.  
 Erwin, Orlando R., New York, N. Y., and H. V. Glos, Chicago, Ill., assignors to Foamite Firefoam Company, New York, N. Y. Fire-extinguishing device. No. 1,401,328; Dec. 27.  
 Erwin, W. M., and W. F. Stretch, Hanford, Calif. Automobile-radiator cap. No. 1,389,495; Aug. 30; v. 289; p. 936.  
 Erzinger, Henry J., et al. (See Huber, William E., assignor.)  
 Esberg, Clifford N. (See Willison, R. A., and Esberg.)  
 Esch, Paul H., Manitowoc, Wis. Smoking-stand. No. 1,389,038; Aug. 30; v. 289; p. 845.  
 Esche, Robert, Milwaukee, Wis. Linings for grain spouts and chutes. No. 1,382,897; June 28; v. 287; p. 653.  
 Escholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating current welding system. No. 1,365,311; Jan. 11; v. 282; p. 288.  
 Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arc-welding system. No. 1,374,557; Apr. 12; v. 285; p. 269.  
 Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrode-holder for arc-welding. No. 1,384,439; July 12; v. 288; p. 295.  
 Escobales, H., Co. (See De Escobales, H., assignor.)  
 Escobales, H., Co. (See De Escobales, Hilarion, assignor.)  
 Escobales, Lillian S. (See Lev, Frank W., assignor.)  
 Esenwein, William H., Bellevue, Pa. Swimming frog. No. 1,393,518; Oct. 11.  
 Eskelin, Jacob, assignor of one-half to A. B. Plater, Chicago, Ill. Tractor. No. 1,370,297; Mar. 1; v. 284; p. 103.  
 Eskil, William A., Corona, N. Y. Valve-tool. No. 1,382,491; June 21; v. 287; p. 523.  
 Esnough, Thomas S., and B. L. Schreiner, Philadelphia, Pa. Resilient clamp. No. 1,380,096; May 31; v. 286; p. 964.  
 Espeland, Franklin A., Oakes, N. D. Mopping-machine. No. 1,393,100; Oct. 11.  
 Espeland, Franklin A., Oakes, N. D. Scrubbing-machine. No. 1,393,101; Oct. 11.  
 Espenhahn, Edward V., East Orange, N. J. Recovering cyanogen compounds. (Reissue.) No. 15,090; Apr. 19; v. 285; p. 544.  
 Espenlaub, John W., W. H. Northall, and F. W. Goedeke, Evansville, Ind.; said Northall and said Goedeke assignors to said Espenlaub. Wardrobe-trunk. No. 1,371,612; Mar. 15; v. 284; p. 464.  
 Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Repeater-circuits. No. 1,378,170; May 17; v. 286; p. 451.  
 Espenschied, Lloyd, Hollis, N. Y., assignor to American Telephone and Telegraph Company. Radiorepeating system. No. 1,397,093; Nov. 15.  
 Esselen, Gustavus J., Jr., Swampscott, assignor, by mesne assignments, to D. & L. Slade Company, Boston, Mass. Flavoring and perfumery extract. No. 1,378,099; May 17; v. 286; p. 438.  
 Essex, Jesse L. (See Stetson, F. W., and Essex.)  
 Essex, Charles S., Pomeroy, Ohio. Trolley-pole. No. 1,369,796; Mar. 1; v. 284; p. 8.  
 Essex Motors. (See Behn, Guido G., assignor.)  
 Essex Motors. (See Feke, S. I., and Baits, assignors.)  
 Essex Motors. (See Fekete, Stephen I., assignor.)  
 Essex Motors. (See Frey, Albert E., assignor.)  
 Essex Motors. (See Whisler, Ralph H., assignor.)  
 Essex Rubber Company. (See Sanders, Walter E., assignor.)  
 Essmuller, Ernest A., and L. D. Huggins, St. Louis, Mo. One-piece button and buckle. No. 1,386,339; Aug. 2; v. 289; p. 75.  
 Essner, Leon, Benton, Mo. Power-transmitting apparatus. No. 1,392,131; Sept. 27; v. 290; p. 747.  
 Estabrook, Charles E., Springfield, Ind. Railway-tie and rail-fastener. No. 1,382,182; June 21; v. 287; p. 463.  
 Estabrook, Charles E., Springfield, Ind. Railway-tie and rail-fastener. No. 1,392,562; Oct. 4.  
 Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)  
 Esterline & Angus. (See Angus, Donald J., assignor.)  
 Esterline, John W., and D. J. Angus, Indianapolis, Ind., assignors to Tidewater Equipment Corporation, Portland, Me. Engine-starter. No. 1,376,752; May 3; v. 286; p. 70.  
 Esterline, John W., and D. J. Angus, Indianapolis, Ind., assignors to Tidewater Equipment Corporation, Portland, Me. Engine-starter. No. 1,388,178; Aug. 23; v. 289; p. 619.  
 Estes, Dana, Brookline, Mass. Fire-extinguisher and making same. No. 1,396,362; Nov. 8.  
 Estes, Marshall A., Estes, Va. Air-compressor. No. 1,389,039; Aug. 30; v. 289; p. 845.  
 Estes, Ralph D., Estes, Va. Corn-thinner. No. 1,394,291; Oct. 18.  
 Etablissements Continsouza (Societe Anonyme.) (See Gauriat, Pierre S., assignor.)  
 Etablissements Jacob Holtzer. (See Vergniaud, Louis, assignor.)  
 Etan, Emil E., Bozeman, Mont. Clothes-rack attachment for boilers. No. 1,374,495; Apr. 12; v. 285; p. 257.  
 Etchells, Harry. (See Greaves, H. A., and Etchells.)  
 Etchells, John W., Brooklyn, N. Y. Hat-rack and coat-holder. No. 1,383,611; July 5; v. 288; p. 73.  
 Etchison, Eunice C., Fairfax, Ala. Safety attachment. No. 1,397,371; Nov. 15.  
 Etheridge, David S. (See Graham, Robert C., assignor.)  
 Etheridge, Francis T. (See Johnson, H. A., and Etheridge, assignors.)  
 Etheridge, Harry. (See Frauenheim, J. A., and Etheridge.)  
 Etheridge, Herbert, Ealing, assignor to The Bar-Lock Typewriter Company, Limited, London, England. Typewriter mechanism. No. 1,380,788; June 7; v. 287; p. 89.  
 Etheridge, Herbert, Ealing, assignor to The Bar-Lock Typewriter Company, Limited, London, England. Typewriter with detachable platen-carriages. No. 1,382,349; June 21; v. 287; p. 495.  
 Ethridge, Thomas J., Longview, Tex. Metal-coating composition. No. 1,379,542; May 24; v. 286; p. 785.  
 Ettinger, Frank, Los Angeles, Calif. Wrench attachment. No. 1,396,171; Nov. 8.  
 Ettinger, Wallace J., Chicago, Ill. Switch-operating device. No. 1,397,245; Nov. 15.  
 Etzweiler, William B., Penbrook, Pa. Manicuring implement. No. 1,395,180; Sept. 25.  
 Eulberg, Joseph, Alton, Iowa. Wheel and demountable rim. No. 1,387,372; Aug. 9; v. 289; p. 352.  
 Euler, William G. B., San Francisco, J. A. Koontz, Jr., Palo Alto, and C. F. Benham, Alameda, Calif. Insulator-testing device. No. 1,370,638; Mar. 8; v. 284; p. 213.  
 Eureka Bedding Manufacturing Company. (See Fischer, Joseph A., assignor.)  
 Eureka Metal Heel Company, The. (See Jamopoulos, Stergos, assignor.)  
 Eureka Spark Plug Corporation. (See Christern, Grover, assignor.)  
 Eureka Tackle Block Company, The. (See Flynn, John H., Jr., assignor.)  
 Eury, Zebulon J., Fort Worth, Tex. Repairing scored cylinders. No. 1,384,456; July 12; v. 288; p. 298.  
 Eustice, Alfred L., Chicago, Ill. Fuse-terminal-attaching means. No. 1,393,102; Oct. 11.  
 Eustice, Alfred L., Chicago, Ill. Safety-fuse. No. 1,400,480; Dec. 13.  
 Eustis, Frederic A., Milton, Mass. Treating liquids used in industrial chemical processes. No. 1,397,094; Nov. 15.  
 Eustis, Frederick A., Milton, Mass., assignor of three-fourths to C. P. Perin, New York, N. Y. Treatment of iron ores. No. 1,377,822; May 10; v. 286; p. 333.  
 Eustis, George P., Washington, D. C. Shade for headlights. No. 1,394,156; Oct. 18.



- Eustis, George P., Washington, D. C. Liquid-fuel vaporizer. No. 1,398,370; Nov. 29.
- Eustis, Robert I. (See Hart, S., and Eustis.)
- Eva, Addison H., San Antonio, Tex. Holder and tie. No. 1,383,917; July 5; v. 288; p. 136.
- Evancho, Peter, Oneida, Pa. Pneumatic-tire protector. No. 1,383,612; July 5; v. 288; p. 73.
- Evangelist, Dominick, New York, N. Y. Safety device for elevators. No. 1,373,122; Mar. 29; v. 284; p. 854.
- Evans, Alonzo H., Carey, Idaho. Skee. No. 1,364,922; Jan. 11; v. 282; p. 213.
- Evans, Charles E., Seattle, Wash. Binder tying and cutting device. No. 1,378,169; May 17; v. 286; p. 451.
- Evans, Clarence T., and R. B. Hunter, assignors to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,379,971; May 31; v. 286; p. 940.
- Evans, Clyde P., St. Louis, Mo. Lapsed-time-calculating machine. No. 1,377,620; May 10; v. 286; p. 293.
- Evans, Cullen C., Los Angeles, Calif. Brake. No. 1,367,128; Feb. 1; v. 283; p. 49.
- Evans, Daniel, Barry Dock, Wales. Educational and like appliance; No. 1,369,640; Feb. 22; v. 283; p. 682.
- Evans, Edward F., Phoenix, Ariz. Ladder. No. 1,400,481; Dec. 13.
- Evans, Edward S., Detroit, Mich. Double-decking buck. No. 1,358,247; Aug. 23; v. 289; p. 633.
- Evans, Edward S., Detroit, Mich. Metal double-decking buck for automobiles. No. 1,395,225; Oct. 25.
- Evans, Edwin B. (See Page, Louis A., assignor.)
- Evans, Edwin J., and G. E. Hemphill, Salt Lake City, Utah, assignors to Universal Tool Company. Monkey-wrench. No. 1,391,179; Sept. 20; v. 290; p. 480.
- Evans, Edwin J., and G. E. Hemphill, Salt Lake City, Utah, assignors to Universal Tool Company. Wrench. No. 1,391,180; Sept. 20; v. 290; p. 480.
- Evans, Floyd W., and A. A. Miller, Buffalo, N. Y. Kerosene-burner. No. 1,394,073; Oct. 18.
- Evans, Francis W. (See Stephens, I., and Evans.)
- Evans, Fred, Summit, N. J., assignor to Hartshorne & Battelle, New York, N. Y. Motorcycle. No. 1,369,015; Feb. 22; v. 283; p. 561.
- Evans, Fred, Summit, assignor to E. T. Tranzon, Maplewood, and A. C. Hensler, Newark, N. J. Adjustable striker-plate for doors. No. 1,390,519; Sept. 13; v. 290; p. 284.
- Evans, Fred, Summit, N. J., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Grouter device for tractor-wheels. No. 1,391,049; Sept. 20; v. 290; p. 454.
- Evans, Fred, Summit, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Pressure-gage. No. 1,397,728; Nov. 22.
- Evans, Fred, Summit, N. J., and J. Corcos, New York, N. Y., assignors to International Gas Recorder Manufacturing Company, Newark, N. J. Filling apparatus for liquid-fuel tanks and the like. No. 1,381,864; June 14; v. 287; p. 344.
- Evans, Garfield I. (See Fraser, John G., assignor.)
- Evans, Harrison E., Somerville, Mass., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y. Fluid-controlling valve. No. 1,400,944; Dec. 20.
- Evans, Howard C., Lynchburg, Va. Poultry device. No. 1,384,054; July 12; v. 283; p. 214.
- Evans, Humphrey, assignor to Holeproof Hosiery Co., Milwaukee, Wis. Fabric straightening and guiding device. No. 1,375,041; Apr. 19; v. 285; p. 425.
- Evans, Ira N., Detroit, Mich. Combined hot-water heating and condensing power system. No. 1,376,326; Apr. 26; v. 285; p. 703.
- Evans, Isaac, Cleveland Heights, Ohio. Spreading device. No. 1,399,381; Dec. 6.
- Evans, Jewett G. P., Handley, Tex. Crude-oil-refining process. No. 1,366,642; Jan. 25; v. 282; p. 632.
- Evans, Jewett G. P., Handley, Tex. Crude-oil-refining process. No. 1,366,643; Jan. 25; v. 282; p. 632.
- Evans, Joseph, Buffalo, N. Y. Lock. No. 1,376,141; Apr. 26; v. 285; p. 667.
- Evans, Lafayette, Portsmouth, Ohio. Wrench. No. 1,382,492; June 21; v. 287; p. 523.
- Evans, Leigh R., assignor to Cyclomotor Corporation, Rochester, N. Y. Saddle. No. 1,373,718; Apr. 5; v. 285; p. 65.
- Evans, Lewis J., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Co. Gear-cutting machine. No. 1,384,558; July 12; v. 288; p. 319.
- Evans, Marvin, Pharr, Tex. Dredge. No. 1,398,131; Nov. 22.
- Evans, Morgan, Pittston, Pa. Vise-stand. No. 1,398,424; Nov. 29.
- Evans, Powell, Philadelphia, Pa. Casing for universal joints. No. 1,397,413; Nov. 15.
- Evans, Richard C., St. Paul, assignor of one-half to J. H. Erickson, Minneapolis, Minn. Wrench. No. 1,371,415; Mar. 15; v. 284; p. 426.
- Evans, Robert, Othello, Wash. Tie lifter and holder. No. 1,391,822; Sept. 27; v. 290; p. 683.
- Evans, Robert L., Roanoke, Va. Double-pressure vent-valve for angle-cocks. No. 1,385,122; July 19 v. 288; p. 518.
- Evans, Robert L., and H. L. Roberts, Roanoke, Va. Valve. No. 1,388,179; Aug. 23; v. 289; p. 619.
- Evans, S. C. (See Markwell, Andrew E., assignor.)
- Evans, Samuel C., New Castle, Pa. Furnace. No. 1,388,810; Aug. 23; v. 289; p. 744.
- Evans, William H., Joliet, Ill. Guiding device for sleds. No. 1,390,106; Sept. 6; v. 290; p. 111.
- Evans, William L. (See Ross, William H., assignor.)
- Evans, William L., Jr., Washington, Ind. Multiple-lever hinge. No. 1,367,954; Feb. 8; v. 283; p. 267.
- Evans, William S., Duluth, Minn. Spotlight-support. No. 1,390,350; Sept. 13; v. 290; p. 250.
- Evans, Willis J., New York, N. Y. Device for administering medicine. No. 1,393,209; Oct. 11.
- Evansville Arbor Press Company. (See Taylor, Robert W., Sr., assignor.)
- Evaporating and Drying Machinery Company, The. (See Miller, John C., assignor.)
- Evans, William B. (See Jackson, George E., assignor.)
- Eveleth, Clarence M., River Forest, Ill. Shade-adjuster. No. 1,368,128; Feb. 8; v. 283; p. 300.
- Evelyn, Harry C., Chicago, assignor to Bifex Products Company, Waukegan, Ill. Bumper-attachment bracket. No. 1,364,261; Jan. 4; v. 282; p. 42.
- Evenen, Alfred L., J. D. and J. A. Casey, Rome, N. Y. Implement for fixing tips to laces. No. 1,394,719; Oct. 25.
- Evensta, Edwin G., and H. J. Anderson, Minneapolis, Minn. Laundry-tub faucet. No. 1,393,103; Oct. 11.
- Everett, Charles F. (See McCollum, F. C., and Everett.)
- Everett, Clarence E., Milwaukee, Wis. Tire-vulcanizer. No. 1,389,821; Sept. 6; v. 290; p. 52.
- Everett, Cornelius J. (See Emtage, Nathaniel C., assignor.)
- Everett, Edward A., New York, N. Y. Tag and terminal-strip. No. 1,373,416; Apr. 5; v. 285; p. 7.
- Everett, Edward A., New York, N. Y. Bond-wire support. No. 1,386,854; Aug. 9; v. 289; p. 249.
- Everett, Edward A., New York, N. Y. Means for positioning lamps. No. 1,388,634; Aug. 23; v. 289; p. 710.
- Everett, Edward A., New York, N. Y. Track-drilling machine. No. 1,391,725; Sept. 27; v. 290; p. 664.
- Everett, Edward A., Long Island City, N. Y. Lightning-arrester. No. 1,401,596; Dec. 27.
- Everett, Edwin, *et al.* (See Perkins, George E., assignor.)
- Everett, Henry A., Haddon Heights, assignor to himself and L. Sykes, Camden, N. J. Electric-switch handle. No. 1,368,617; Feb. 15; v. 283; p. 444.
- Everett, Howard E., St. Paul, Minn. Safety direction-signal. No. 1,374,725; Apr. 12; v. 285; p. 301.
- Everett, John H. D., Waukegan, Ill. Safety-razor. No. 1,401,766; Dec. 27.
- Everett Machine and Manufacturing Company, The. (See Meltz, Julius B., assignor.)
- Everett, William R., Benton Harbor, Mich., assignor, by mesne assignments, to F. G. Hogland, Rockford, Ill. Spring-motor. No. 1,387,480; Aug. 16; v. 289; p. 424.
- Everhart, Edgar, Atlanta, Ga. Purifying bauxite. No. 1,397,414; Nov. 15.
- Everitt, William A., Portland, Oreg. Snowplow. No. 1,392,132; Sept. 27; v. 290; p. 747.
- Everken, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Acid-resisting receptacle. No. 1,384,023; July 5; v. 288; p. 159.
- Everlastik, Incorporated. (See Kendrick, Solomon, assignor.)
- Everlasting Valve Company. (See Wilson, Wylie G., assignor.)
- Evers, A. J., and H. J. Sauvage, assignors to W. C. Ritchie & Company, Chicago, Ill. Box-slide-making machine. No. 1,381,176; June 14; v. 287; p. 216.
- Evers, Arthur J., Chicago, Ill. Box-making machine. No. 1,385,988; Aug. 2; v. 289; p. 5.
- Evers, Cyrus, Brooklyn, assignor to Lidgerwood Manufacturing Company, New York, N. Y. Winding or hoisting engine. No. 1,383,704; July 5; v. 283; p. 93.
- Evers, Edward A., Wilmette, Ill. Radiator-shield for motor-vehicles. No. 1,369,228; Feb. 22; v. 283; p. 602.
- Everson, John J., Newton, Mass. Artificial limb. No. 1,369,016; Feb. 22; v. 283; p. 561.
- Everson, Oscar, Hibbing, Minn. Sight-feed oil-pump. No. 1,401,145; Dec. 27.
- Everson, William, Alma, Nebr. Aerocycle. No. 1,374,143; Apr. 5; v. 285; p. 148.
- Eves, Archiebald P., Chicago, Ill. Cord for tires. No. 1,369,273; Feb. 22; v. 283; p. 610.
- Evslin, Leo E., New York, N. Y. Toothbrush. No. 1,378,530; May 17; v. 286; p. 520.
- Evslin, Leo E., New York, N. Y. Dental-bridge construction. No. 1,393,767; Oct. 18.
- Ewald, Arno A., Oakfield, Wis. Hose-coupling. No. 1,367,246; Feb. 1; v. 283; p. 72.
- Ewing, Earl J. (See Quarmby, J. I., and Ewing.)
- Ewald, Frederick W., Brooklyn, and H. G. Thomson, New York, N. Y.; said Ewald assignor to said Thomson. Gate. No. 1,394,479; Oct. 18.
- Ewart, John W., Mill Hill, England. Water-heater. No. 1,376,142; Apr. 26; v. 285; p. 668.
- Ewart, William, Niagara Falls, Ontario, Canada. Pipe. No. 1,394,292; Oct. 18.
- Ewell, Herbert P., Los Angeles, Calif. Electrochemical gold-separator. No. 1,374,370; Apr. 12; v. 285; p. 232.
- Ewell, Laurence M. (See Rapp, A. G. J., and Ewell.)
- Ewertz, Eric H., Quincy, Mass. Vessel. No. 1,364,626; Jan. 4; v. 282; p. 111.
- Ewing, Finis L., *et al.* (See Hansen, William A., assignor.)



*Alphabetical list of patentees—Continued.*

- Ewing, Harry E., Smithfield, Pa. Antirattling device. No. 1,400,482; Dec. 13.
- Ewing, Howard M., Los Angeles, Calif., assignor to Famous Players-Lasky Corporation. Light-dissolver. No. 1,401,329; Dec. 27.
- Ewing, Hugh, Columbus, Ohio. Spring-controlled link for vehicles. No. 1,386,855; Aug. 9; v. 289; p. 249.
- Ewing, Robert G., Toledo, Ohio. Sheet-glass-drawing apparatus. No. 1,399,547; Dec. 6.
- Ewing, Samuel R. (See Quarmby, J. I., and Ewing.)
- Ewing, William L., assignor of one-half to R. R. Maxwell, Mansfield, Ohio. Collar-holder. No. 1,365,026; Jan. 11; v. 282; p. 234.
- Excelsior Steel Furnace Company, The. (See Menk, Rudolph W., assignor.)
- Excelsior Steel Furnace Company. (See Scherer, Albert G., assignor.)
- Exceloid Company of Pennsylvania. (See Cohn, Irwin, assignor.)
- Exline, Marcus P., Dallas, Tex. Removable pass-book. No. 1,377,120; May 3; v. 286; p. 141.
- Exolon Company, The. (See Schabacker, Henry E., assignor.)
- Explorer Manufacturing Corporation. (See Geddes, Charles A., assignor.)
- Eynon, Harold G., Philadelphia, Pa. Electrically-operated centrifugal casting-machine. No. 1,385,781; July 26; v. 288; p. 727.
- Eynon, Howard B., Wellsville, N. Y. Brush connection. No. 1,392,563; Oct. 4.
- F. & M. Novelty Co. (See Marcus, Samuel, assignor.)
- Fabart Instrument Company. (See Swanberg, Julius, assignor.)
- Faber, Alvin J., assignor of one-half to Edward C. Theis, St. Louis, Mo. Spark-plug. No. 1,364,262; Jan. 4; v. 282; p. 42.
- Faber, August, New York, N. Y. Motor-boat. No. 1,364,923; Jan. 11; v. 282; p. 213.
- Faber, Henry B., New York, N. Y. Metallurgical and chemical filter. No. 1,368,618; Feb. 15; v. 283; p. 444.
- Faber, John P., Dunellen, N. J., assignor to Ransome Concrete Machinery Company. Concrete-mixing apparatus. No. 1,379,586; May 24; v. 286; p. 793.
- Faber, Lothar W., New York, N. Y., assignor to Eberhard Faber Pencil Company. Eraser-holder. No. 1,373,062; Mar. 29; v. 284; p. 842.
- Faber, Philip, assignor to L. Billet, Brooklyn, N. Y. Amusement device. No. 1,367,868; Feb. 8; v. 283; p. 252.
- Fabrique d'Horlogerie Recta, S. A. (See Durichsweiler, Walram, assignor.)
- Fabriques des Montres Zenith successeur de Fabriques des Montres Zenith Georges-Favre-Tacot & Cie. (See Pelaten, Edmond, assignor.)
- Fabrizio, Rocco, Springfield, Mass. Window-curtain for street-cars. No. 1,399,253; Dec. 6.
- Fabyan, George, Geneva, Ill. Means for classifying bi-formed alphabet. No. 1,390,027; Sept. 6; v. 290; p. 94.
- Faccioli, Giuseppe, Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,396,563; Nov. 8.
- Faccioli, Giuseppe, Pittsfield, Mass., assignor to General Electric Company. Electrical distributing system. No. 1,401,682; Dec. 27.
- Fackler, Wesley J., Los Angeles, Calif. Oil sight-feed. No. 1,387,248; Aug. 9; v. 289; p. 325.
- Fadness, Adolph R., Vevy, N. D. Adjustable sieve-holder for threshing-machines. No. 1,383,918; July 5; v. 288; p. 136.
- Faegenson, Harry, Chicago, Ill. Cushion-heel for shoes and the like. No. 1,392,823; Oct. 4.
- Faessel, Albert, assignor to Continental Bolt & Iron Works, Chicago, Ill. Automatic nut-applying device. No. 1,390,351; Sept. 13; v. 290; p. 250.
- Fafnir Bearing Company. (See Cooper, Elisha H., assignor.)
- Fafnir Bearing Company, The. (See Reynolds, Harry R., assignor.) (Reissue.)
- Fafnir Bearing Company, The. (See Searles, Raymond R., assignor.)
- Fafnir Bearing Company, The. (See Sellev, Roland W., assignor.)
- Fagan, George W., Cedar Falls, Iowa. Repairing-stand. No. 1,379,907; May 31; v. 286; p. 927.
- Fagan, Robert, Latimer Mines, Pa. Tool. No. 1,390,107; Sept. 6; v. 290; p. 111.
- Fagen, Abraham A., assignor of one-half to H. A. Diamond, Minneapolis, Minn. Window heater and drier. No. 1,370,955; Mar. 8; v. 284; p. 273.
- Fagrie, Philip T., Seattle, Wash. Adjustable straightedge plumb and level. No. 1,398,183; Nov. 22.
- Fahey, William, Cleveland, Ohio. Lubricating apparatus. No. 1,385,531; July 26; v. 288; p. 676.
- Fahnestock, Adam B. (See Elvin, A. G., and Fahnestock.)
- Fahnestock, Adam B. (See Elvin, A. G., Fahnestock, and Clark.)
- Fahnestock, Ernest B., deceased; E. M. Jordan and F. H. Burnett, Plandome, N. Y., executors. Electric switch. No. 1,386,694; Aug. 9; v. 289; p. 216.
- Fahr, Johann G., assignor to Maschinenfabrik Fahr A.-G., Gottmadingen, Germany. Mower. No. 1,399,548; Dec. 6.
- Fahrenbruch, George H., Omaha, Nebr. Car-door. No. 1,369,229; Feb. 22; v. 283; p. 602.
- Fahrenwald, Frank A., Cleveland Heights, Ohio. Apparatus for high-temperature uses. No. 1,378,941; May 24; v. 286; p. 672.
- Fahrenwald, Frank A., Cleveland, Ohio. Synthesizing ammonia in the presence of a catalytic alloy. No. 1,388,995; Aug. 30; v. 289; p. 837.
- Fahrni, Otto, Thoun, assignor to W. Gerber, Thoun, Hofstetten, and E. Schneider, Bachmatte, Thoun, Switzerland. Automatic embroidering-machine. No. 1,378,668; May 17; v. 286; p. 547.
- Fahrni, Otto, Thoun, assignor to L. Wyler and A. H. Rieser-Beutter, Berne, Switzerland. Machine for perforating jacquard-cards for embroidery-machines. No. 1,379,807; May 31; v. 286; p. 909.
- Faik, George A., Milwaukee, Wis. Knocked-down or portable structure. No. 1,374,994; Apr. 19; v. 285; p. 415.
- Faik, George A., Milwaukee, Wis. Pole for foldable ladder and stretcher structures. No. 1,374,995; Apr. 19; v. 285; p. 415.
- Faillace, Frank, New York, N. Y. Convertible vehicle-body. No. 1,385,909; July 26; v. 288; p. 752.
- Fair, James M., Narberth, Pa. Rail-anchor. No. 1,364,263; Jan. 4; v. 282; p. 42.
- Fair, James F., Doby Springs, Okla. Attachment for automobiles. No. 1,358,996; Aug. 30; v. 289; p. 837.
- Fair, Ralph E. (See Zilen, V. W., and Fair.)
- Fairbairn, Francis A., assignor to Palmers Limited, Montreal, Quebec, Canada. Vanity-case. No. 1,391,050; Sept. 20; v. 290; p. 454.
- Fairbanks Company, The. (See Sponsel, Charles W., assignor.)
- Fairbanks, E. and T., and Company. (See Starr, Morton H., assignor.)
- Fairbanks, Luke J., et al. (See Hibbard, L. Richard, assignor.)
- Fairbanks, Luke J., and J. R. Kelly, Los Angeles, Calif. Sample-dispenser. No. 1,369,969; Mar. 1; v. 284; p. 41.
- Fairbanks, Morse & Co. (See Hawthorne, Primm R., assignor.)
- Fairbanks, Morse & Co. (See Heath, William C., assignor.)
- Fairbanks, Morse & Company. (See Jahnke, Charles B., assignor.)
- Fairbanks, Morse & Co. (See Peter, Alfred, assignor.)
- Fairbanks, Morse & Co. (See Whitesell, Frederick N., assignor.)
- Fairburn, William A., Morristown, N. J., assignor to The Diamond Match Company, Chicago, Ill. Composition for match-heads. (Reissue.) No. 15,039; Feb. 15; v. 283; p. 517.
- Fairchild, Alice M., assignor to C. K. Harding, Chicago, Ill. Spark-plug. No. 1,369,274; Feb. 22; v. 283; p. 611.
- Fairchild, Alson F., Delavan, Wis. Pneumatic tire. No. 1,371,672; Mar. 15; v. 284; p. 476.
- Fairchild, Clifford J., assignor to Black Products Co., Chicago, Ill. Target. No. 1,378,340; May 17; v. 286; p. 483.
- Fairchild, Horatio J. (See Warner, William D., assignor.)
- Fairchild, Oren J., Pasadena, Calif. Automatic bowling mechanism. No. 1,375,835; Apr. 26; v. 285; p. 608.
- Fairchild Publishing Co. (See Harmuth, Louis, assignor.)
- Fairfield, Jennie, Detroit, Mich. Plow. No. 1,392,133; Sept. 27; v. 290; p. 747.
- Fairhead, James, assignor to The Lake Simcoe Ice Supply & Cold Storage Co. Limited, Toronto, Ontario, Canada. Ice-scoring machine. No. 1,384,749; July 19; v. 288; p. 439.
- Fairholme, Frederick C., W. H. Hatfield, and G. Stanfield, Sheffield, England, assignors to Firth Sterling Steel Company, McKeesport, Pa. Tool for testing the hardness of materials. No. 1,376,413; May 3; v. 286; p. 7.
- Fairless, Victor H., Trenton, Tenn. Adjustable headrest for invalids. No. 1,366,774; Jan. 25; v. 282; p. 658.
- Fairless, Victor H., Trenton, Tenn. Soft-collar support. No. 1,378,773; May 17; v. 286; p. 567.
- Fairlie, Andrew M., Copperhill, Tenn. Filling material for reaction-spaces. No. 1,365,671; Jan. 18; v. 282; p. 396.
- Fairman, Milton D. M., South Brownsville, Pa. Automatic cooling system. No. 1,376,086; Apr. 26; v. 285; p. 657.
- Fairrie, James L., Liverpool, England. Apparatus for drying materials, especially leather, by means of gases. No. 1,371,083; Mar. 8; v. 284; p. 298.
- Faist, Andrew, assignor of three-fourths to L. Grieger, San Francisco, Calif. Wire-stretcher. No. 1,367,129; Feb. 1; v. 283; p. 49.
- Faitelowitz, Arnold, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Preserving vegetables, fruit, and the like. No. 1,399,471; Dec. 6.
- Faith, Stephen, and E. N. Boucher, Chicago, Ill. Card-index. No. 1,367,030; Feb. 1; v. 283; p. 29.
- Fak, Ciril, Bush, Ill. Tire-rim for vehicles. No. 1,389,496; Aug. 30; v. 289; p. 936.
- Falco, Frank T., assignor to Pacific Car & Foundry Co., Seattle, Wash. Two-wheeled trailer. No. 1,400,351; Dec. 13.
- Falcone, Joseph, New York, N. Y. Combination-globe. No. 1,377,121; May 3; v. 286; p. 141.
- Falconer, Harry W., Wood county, near Perrysburg, Ohio. Key-indicator. No. 1,369,017; Feb. 22; v. 283; p. 561.



- Falconer, Harry W., Wood county, near Perrysburg, Ohio. Identifying means for automobiles. No. 1,375,370; Apr. 19; v. 285; p. 487.
- Falconer, William W. P., London, England. Device for measuring the range of movement of human joints. No. 1,401,146; Dec. 27.
- Falk, Arthur, Duluth, Minn. Spotlight-support. No. 1,393,678; Oct. 11.
- Falk, James W., Little Falls, Minn. Tie and rail-clamp. No. 1,390,108; Sept. 6; v. 290; p. 111.
- Falle, John E. (See Shader, C. L., and Falle.)
- Fallenstein, Ernest H., Mankato, Minn., assignor of one-half to V. E. Gill, Boulder, Colo. Cableway excavating-bucket. No. 1,398,425; Nov. 29.
- Falline, Charles F., Atlanta, Ga. Trolley-wheel guide. No. 1,365,821 Jan. 18; v. 282; p. 427.
- Fallon, Edward F., Harrisonburg, Va. Rail-spike. No. 1,373,875; Apr. 5; v. 285; p. 97.
- Fallon, Perlle P. (See Phillips, Ross M. G., assignor.)
- Fallow, Gavin S., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Screw-thread gage. No. 1,392,313; Oct. 4.
- Falls, Alexander S., Glencoe, Ill. Desk. No. 1,377,767; May 10; v. 286; p. 322.
- Falos, Michael, Boston, Mass. Tool - handle. No. 1,391,726; Sept. 27; v. 290; p. 665.
- Faltermayr, Harry, Philadelphia, assignor of one-half to F. E. Russell, Langhorne, Pa. Drill-block. No. 1,396,509; Nov. 8.
- Faltin, Bernard P., Bareville, Pa. Dispensing-pump. No. 1,394,191; Oct. 18.
- Faltin, Bernard P., Bareville, Pa. Quick-return pump-head gearing. No. 1,398,684; Nov. 29.
- Famous Players-Lasky Corporation. (See Ewing, Howard M., assignor.)
- Fan Flame Spark Plug Co. (See Gill, Horace E., assignor.)
- Fangmann, John H., Templeton, Iowa. Lift for motor-vehicles. No. 1,390,109; Sept. 6; v. 290; p. 111.
- Fankboner, Harland. (See Walser, J. J., and Fankboner.)
- Fanner Manufacturing Company, The. (See Gibson, Samuel H., assignor.)
- Fanning, Grover C., Wichita, Kans. Weed-turning attachment to plows. No. 1,380,197; May 31; v. 286; p. 982.
- Fanslow, Benjamin O., assignor to New Era Manufacturing Company, New York, N. Y. Check-writer. No. 1,368,912; Feb. 15; v. 283; p. 502.
- Farah, Kalil, Brooklyn, N. Y. Folding bed and/or chair. No. 1,386,612; Aug. 9; v. 289; p. 199.
- Farb, Pincus, Saginaw, Mich., assignor to Sonora Phonograph Corporation. Chuck for talking-machine needles and the like. No. 1,383,613; July 5; v. 288; p. 74.
- Farber, Harry. (See Farber, Louis and H.)
- Farber, Louis and H., New York, N. Y. Nut-bowl. No. 1,392,134; Sept. 27; v. 290; p. 747.
- Fargo, Charles R., and P. O. Unger, assignors to Irving-Pitt Manufacturing Company, Kansas City, Mo. Posting apparatus. No. 1,396,510; Nov. 8.
- Fargo, Charles R., and P. O. Unger, assignors to Irving-Pitt Manufacturing Company, Kansas City, Mo. Posting device. No. 1,396,511; Nov. 8.
- Faries, Robert, Pittsburgh, Pa. Rail-anchor. No. 1,392,407; Oct. 4.
- Farina, Joseph A., et al. (See Snelling, S. A., and Saner, assignors.)
- Farish, James H., et al. (See Albright, Jacob J., assignor.)
- Farkas, Eugene J., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Radiator - filler cap. No. 1,393,992; Oct. 18.
- Farkas, John, Donora, Pa. Railway-tie. No. 1,367,541; Feb. 8; v. 283; p. 189.
- Farkas, William, New York, and C. Grebenstein, Brooklyn, N. Y. Book-indexing machine. No. 1,381,814; June 14; v. 287; p. 335.
- Farley, John W., Cleveland, Ohio. Combined bracket and hanger for radiators. No. 1,382,418; June 21; v. 287; p. 508.
- Farley, Walter L. (See Hastings, H. E., Farley, and Sulzer.)
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Suction air-strainer. No. 1,375,498; Apr. 19; v. 285; p. 512.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control device. No. 1,378,404; May 17; v. 286; p. 496.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-pipe cut-out cock. No. 1,378,405; May 17; v. 286; p. 496.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock handle. No. 1,387,971; Aug. 16; v. 289; p. 522.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control equipment. No. 1,390,606; Sept. 13; v. 290; p. 302.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car device. No. 1,378,406; May 17; v. 286; p. 496.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pump-lubricator. No. 1,384,889; July 19; v. 288; p. 468.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric contact device. No. 1,390,607; Sept. 13; v. 290; p. 302.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Locomotive brake equipment. No. 1,394,074; Oct. 18.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Staff-exchange box. No. 1,400,592; Dec. 20.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control device. No. 1,400,593; Dec. 20.
- Farmer, Clyde C., Edgewood, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,400,594; Dec. 20.
- Farmer, Clyde C., Edgewood, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Load brake equipment. No. 1,400,595; Dec. 20.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control device. No. 1,400,596; Dec. 20.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,400,597; Dec. 20.
- Farmer, Frank H., assignor to The White Motor Company, Cleveland, Ohio. Internal-drive rear axle. No. 1,380,547; June 7; v. 287; p. 42.
- Farmer, Hiram F., and J. M. Jones, Manchester, Ky. Automatic railway-switch. No. 1,370,419; Mar. 1; v. 284; p. 126.
- Farmer, James D., Brownville, N. Y. Safety-stop for vehicles. No. 1,386,324; Aug. 2; v. 289; p. 72.
- Farmer, Robert Z., Roseburg, Oreg., assignor to Automatic Electric Brake Company. Electric switch. No. 1,371,673; Mar. 15; v. 284; p. 476.
- Farmer, Roy E., Los Angeles, Calif. Coffee-percolator. No. 1,389,298; Aug. 30; v. 289; p. 897.
- Farmer, Silas D., Galena, Kans. Reckoning-machine. No. 1,365,971; Jan. 18; v. 282; p. 456.
- Farmer, Thomas J., Omaha, Nebr. Telephone attachment. No. 1,378,774; May 17; v. 286; p. 567.
- Farmers Barn Equipment Co. (See Baerwaldt, Erwin W., assignor.)
- Farnes, Matthew H., Logan, Utah. Stove. No. 1,397,506; Nov. 22.
- Farness, Benjamin, De Forest, Wis. Form for hollow concrete walls. No. 1,401,898; Dec. 27.
- Farnham, Charles F., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Display-card. No. 1,380,198; May 31; v. 286; p. 982.
- Farnham, Hubert J., West Haven, Conn., assignor to The Price & Lee Company, New Haven, Conn. Card-holder. No. 1,394,157; Oct. 18.
- Farnham, Leonard, New York, N. Y. Hydraulic operating mechanism for valves. No. 1,364,837; Jan. 4; v. 282; p. 152.
- Farnham, Leonard, New York, N. Y. Electrically-operating mechanism for valves. No. 1,371,153; Mar. 8; v. 284; p. 311.
- Farnham, Walter H., Bucksport, Me. Dental casting-ring. No. 1,367,130; Feb. 1; v. 283; p. 49.
- Farnham, Walter H., Bucksport, Me. Snap-fastener. No. 1,387,135; Aug. 9; v. 289; p. 304.
- Farnsworth, Earl H. (See Farnsworth, Willis S. and E. H.)
- Farnsworth, Francis B., Montreal, Quebec, Canada. Cigar-lighter. No. 1,393,888; Oct. 18.
- Farnsworth, Frank J., Highland Park, Mich. Device for lifting washing-machine cylinders. No. 1,376,414; May 3; v. 286; p. 7.
- Farnsworth, Frank S., county borough of Derby, England. Pneumatic springing of vehicles. No. 1,364,294; Jan. 4; v. 282; p. 49.
- Farnsworth, Frederick C., Conshohocken, Pa. Duplex pumping-trap. No. 1,392,924; Oct. 11.
- Farnsworth, William F., Washington, D. C. Nut-lock. No. 1,400,213; Dec. 13.
- Farnsworth, William W., Littleton, Colo. Cleaning apparatus. No. 1,383,455; July 5; v. 288; p. 41.
- Farnsworth, William W., Littleton, Colo. Cleaning apparatus. No. 1,383,456; July 5; v. 288; p. 41.
- Farnsworth, Willis S. and E. H., San Francisco, Calif. Dirigible spotlight. No. 1,401,246; Dec. 27.
- Farnum, William C., Winchendon, Mass. Gear-cutting machine. No. 1,373,956; Apr. 5; v. 285; p. 113.
- Farnum, William C., Winchendon, Mass. Gear-cutting machine. No. 1,373,957; Apr. 5; v. 285; p. 113.
- Farnum, William C., Winchendon, Mass. Attachment for cutting teeth of bevel-gears. No. 1,373,958; Apr. 5; v. 285; p. 113.
- Farnum, William C., Winchendon, Mass. Transmission mechanism for motors. No. 1,383,705; July 5; v. 288; p. 93.
- Farnum, William C., Winchendon, Mass. Gear-reduction mechanism. No. 1,383,706; July 5; v. 288; p. 93.
- Farnum, William C., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Making gear-cutters. No. 1,383,707; July 5; v. 288; p. 93.
- Farquhar, Herman L., Columbus, Ohio. Bag for vacuum-cleaners. No. 1,364,191; Jan. 4; v. 282; p. 28.
- Farquhar, James C., Zanesville, Ohio. Bookcase. No. 1,379,091; May 24; v. 286; p. 699.



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- Farr, Frederick G., assignor to Hydraulic Oil Systems Corporation, Detroit, Mich. Liquid-dispensing apparatus. No. 1,383,708; July 5; v. 288; p. 94.
- Farr, Herbert H., U. S. Army. Loading feed-belts for machine-guns. No. 1,401,147; Dec. 27.
- Farrall, George A., and C. Maul, assignor to Massey-Harris Harvester Company, Inc., Batavia, N. Y. Harvester. No. 1,389,746; Sept. 6; v. 290; p. 37.
- Farrand, Clair L., Elizabeth, N. J., assignor, by mesne assignments, to Radio Corporation of America. Radio-transmitter. No. 1,385,818; July 26; v. 288; p. 755.
- Farrand, Harry M., Cleveland, Ohio. Freight-car. No. 1,374,292; Apr. 12; v. 285; p. 217.
- Farrar, Holway D., Columbus, Ohio. Lighting-fixture. No. 1,365,027; Jan. 11; v. 282; p. 234.
- Farrar, Mercer G., Cranford, N. J., assignor to The Clothel Company, New York, N. Y. Apparatus for liquid separating. No. 1,371,613; Mar. 15; v. 284; p. 464.
- Farrar, Robert L. (See Harden, Harry, assignor.)
- Farrre, William. (See Jakobsson, Karl A., assignor.)
- Farrrel Foundry and Machine Company. (See Bowen, D. R., and Schnuck, assignors.)
- Farrrel Foundry & Machine Company. (See Bowen, David R., assignor.)
- Farrel, Stephen A., Brooklyn, N. Y., assignor to Automatic Gun Control Company. Control means for guns or the like. No. 1,374,144; Apr. 5; v. 285; p. 148.
- Farrell, James, Cleveland, Ohio. Making carbonizing compounds. No. 1,374,642; Apr. 12; v. 285; p. 236.
- Farrell, Richard J., Palmer, Mass., assignor of one-third to M. Kardes, Waterbury, Conn., and one-third to J. Bolewicz, Palmer, Mass. Non-skid wheel. No. 1,389,822; Sept. 6; v. 290; p. 52.
- Farrell, William J., New York, N. Y. Radiator. No. 1,384,606; July 12; v. 288; p. 329.
- Farrier, Albert M., Brooklyn, N. Y., assignor to Easton Car Construction Co., Easton, Pa. Dumping-car latch. No. 1,366,775; Jan. 25; v. 282; p. 658.
- Farrington, Charles E., Philadelphia, Pa. Abrading or polishing apparatus. No. 1,367,808; Feb. 8; v. 283; p. 240.
- Farrington, George C., Peabody, assignor of one-half to A. F. Littlefield, Lynn, Mass. Adjustable shirt. No. 1,367,310; Feb. 1; v. 283; p. 86.
- Farrington, Herbert O., Kittery, Me., assignor of one-half to A. W. Harrison, Boston, Mass. Mailing blank or sheet. No. 1,376,865; May 3; v. 286; p. 93.
- Farrington Manufacturing Company. (See Greenwood, Oliver P., assignor.)
- Farriss, Charles S., De Land, Fla. Light-support. No. 1,380,889; June 7; v. 287; p. 108.
- Farrow, Franklin, West Brooksville, Me. Peat-spatulating machine. No. 1,378,775; May 17; v. 286; p. 567.
- Farrow, Irving J., assignor of one-half to A. J. Koehler, New York, N. Y. Ticket-dispensing apparatus. No. 1,383,393; July 5; v. 288; p. 28.
- Farry, Michael L., Boston, Mass. Horseshoe. No. 1,378,942; May 24; v. 286; p. 672.
- Farup, Peder, Trondhjem, assignor, by mesne assignments, to Titan Co., A/S, Christiania, Norway. Manufacture of white titanium-oxid products. No. 1,368,392; Feb. 15; v. 283; p. 400.
- Farwell, Edward, Weymouth, England. Drawplate of baking-ovens. No. 1,369,641; Feb. 22; v. 283; p. 682.
- Farwell, Fay O., Dubuque, Iowa. Multiple-arm reproducer mechanism. No. 1,371,614; Mar. 15; v. 284; p. 464.
- Farwell, Fay O., Dubuque, Iowa. Driving mechanism for machine-spindles. No. 1,393,104; Oct. 11.
- Fasano, Orlando M. (See Dunn, John J., assignor.)
- Fasel, Charles, and W. W. Garland, Butte, Mont. Suitcase. No. 1,382,964; June 28; v. 287; p. 666.
- Fasey, William R., Snaresbrook, England. Two-cycle internal-combustion engine. No. 1,374,915; Apr. 19; v. 285; p. 400.
- Fasey, William R., Snaresbrook, England. Internal-combustion engine. No. 1,375,140; Apr. 19; v. 285; p. 444.
- Faso, Salvatore, Madera, Calif. Portable track. No. 1,364,924; Jan. 11; v. 282; p. 213.
- Fasson, Daniel, Rochester, N. Y. Capping-machine. No. 1,387,373; Aug. 9; v. 289; p. 352.
- Fasson, Fatsy, Mount Pleasant, Pa. Sword. No. 1,371,881; Mar. 15; v. 284; p. 515.
- Fast, Gustave, Mount Washington, assignor to The Bartlett Hayward Company, Baltimore, Md. Coupling for shafting. (Reissue.) No. 15,177; Aug. 16; v. 289; p. 558.
- Fast, Gustave, Mount Washington, Md., assignor of 25 per cent. to C. W. Harvey and 10 per cent. to F. B. Harvey. Resilient gear. No. 1,399,549; Dec. 6.
- Fasting, Johan S., Valby, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Drum for burning and agglomerating. No. 1,394,293; Oct. 18.
- Fasting, Johan S., Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Grinding in ball-mills. No. 1,394,294; Oct. 18.
- Fate, Daisy L., executrix. (See Fate, John L.)
- Fate, John L., deceased; D. L. Fate, executrix, assignor, by mesne assignments, to C. R. Gleason, Chicago, Ill. Dispensing cool drinking-water. No. 1,382,070; June 21; v. 287; p. 443.
- Fate, John L., deceased; D. L. Fate, executrix, assignor, by mesne assignments, to C. R. Gleason, Chicago, Ill. Sealing vacuum jacket. No. 1,382,181; June 21; v. 287; p. 634.
- Faubion, James C., assignor of one-half to L. B. Moore, Hope, Ark. Harrow. No. 1,375,086; Apr. 19; v. 285; p. 433.
- Fauchon-Villeplee, André L. O., Paris, France. Electric gun or apparatus for propelling projectiles. No. 1,370,200; Mar. 1; v. 284; p. 84.
- Faudree, Henry, and Harry E. Cooper, Columbus, Ind. Shock-absorber. No. 1,401,059; Dec. 20.
- Fauer, Samuel, assignor of one-half to S. L. Wallerstein, New York, N. Y. Artificial eye. No. 1,369,797; Mar. 1; v. 284; p. 8.
- Faul, Charles, St. Kilda, and H. Lavers, Surrey Hills, Victoria, Australia, assignors, by mesne assignments, to Minerals Separation North American Corporation. Separation of mixed sulfid ores. No. 1,375,087; Apr. 19; v. 285; p. 434.
- Faulconer, John M., Silver Spring, Md. Portable gasoline-measuring device. No. 1,368,494; Feb. 15; v. 283; p. 420.
- Faulders, H. H. (See Brookshire, Elijah B., assignor.)
- Faulhaber, Frank J., New York, N. Y. Tractor and trailer assemblage. No. 1,383,709; July 5; v. 288; p. 94.
- Faulk, Charles L., Cleveland, Ohio. Cuff-button. No. 1,391,620; Sept. 20; v. 290; p. 570.
- Faulkner, Harold C. (See Allen, E. R., and Faulkner.)
- Faulkner, James S., Petersburg, Va. Spark-gap attachment for spark-plugs. No. 1,398,357; Nov. 29.
- Faulkner, Joseph B., Cartersville, Ga. Gasolene-tank indicator. No. 1,372,222; Mar. 22; v. 284; p. 637.
- Faulkner, Lawson F., Aleza Lake, British Columbia, Canada. Saw-guide. No. 1,385,673; July 26; v. 288; p. 705.
- Faultless Caster Company. (See Smithfield, Emil H., assignor.)
- Fauce, Benjamin F., Wilkesburg, Pa. Machine for cutting blooms. No. 1,372,127; Mar. 22; v. 284; p. 618.
- Faurot, Joseph A. (See Carmody, Harold J., assignor.)
- Faurot, Joseph A. (See Wolfe, C. L., and Faurot.)
- Fausset, Winifred M., Newtownards, Ireland. Receptacle. No. 1,394,817; Oct. 25.
- Faust, Casper, Oshkosh, Wis., assignor of one-eighth to H. Nolte, St. Paul, Minn., one-eighth to J. B. Pushee, Milwaukee, one-eighth to F. J. Stopper, Oshkosh, Wis., one-eighth to W. H. Faust, and one-eighth to F. J. Faust, Oshkosh, Wis. Toy wagon. No. 1,383,457; July 5; v. 288; p. 42.
- Faust, Clyde A. (See Faust, Jacob N. and C. A.)
- Faust, Prof. Dr. Edwin H. (See Ott, Erwin, assignor.)
- Faust, Francis J., et al. (See Faust, Casper, assignor.)
- Faust, Jacob N. and C. A., Chicago, Ill. Supporting-garment. No. 1,384,440; July 12; v. 288; p. 295.
- Faust, Jacob N. and C. A., Chicago, Ill. Garment-supporter. No. 1,392,314; Oct. 4.
- Faust, John H. (See Hartmann, Carl, assignor.)
- Faust, Levin, et al. (See Swenson, Carl E., assignor.)
- Faust, Walter H., et al. (See Faust, Casper, assignor.)
- Favary, Ethelbert, New York, N. Y. Spring suspension. No. 1,381,624; June 14; v. 287; p. 298.
- Favre-Bulle, Maurice P., Paris, France. Frame for electromagnetic clock. No. 1,390,110; Sept. 6; v. 290; p. 112.
- Fawcett, J. W., et al. (See Hotchkiss, Raymond H., assignor.)
- Fawcett, Leroy, Sharon, Pa., assignor to The National Malleable Castings Company, Cleveland, Ohio. Manufacture of cast-steel chain. No. 1,365,672; Jan. 18; v. 282; p. 397.
- Fawkes, Charles E., Dubuque, Iowa, and C. W. McIntyre, Farnham, N. Y. Autographic film-pack. No. 1,368,029; Feb. 8; v. 283; p. 281.
- Fay, Clarence C., Tower, Minn. Self-adjusting friction-band. No. 1,371,416; Mar. 15; v. 284; p. 426.
- Fay, Clarence S., Los Angeles, Calif. Thermostatic electric switch for fatirons and the like. No. 1,386,558; Aug. 2; v. 289; p. 115.
- Fay, Harold, J. W. (See Wood, E. C., and Fay.)
- Fay, J. A., & Egan Company. (See Brueggemann, Henry B., assignor.)
- Fay, Joseph W., Milwaukee, Wis., assignor of one-half to H. G. Nye. Welding. No. 1,372,805; Mar. 29; v. 284; p. 791.
- Fay, Leo F., Ecorse, Mich. Washing-machine. No. 1,390,520; Sept. 13; v. 290; p. 284.
- Fay, Leo F., Ecorse, Mich. Washing-machine. No. 1,390,521; Sept. 13; v. 290; p. 284.
- Fay, Richard D., Nabant, assignor to Hammond V. Hayes, Boston, Mass. Submarine signaling. No. 1,380,869; June 7; v. 287; p. 105.
- Fay, Thomas L., Seattle Wash. Attachment for automobile running-boards. No. 1,395,226; Oct. 25.
- Fawick, Thomas L., Chicago, Ill., assignor to Twin Disc Clutch Company, Racine, Wis. Adjusting means for friction-clutches. No. 1,390,352; Sept. 13; v. 290; p. 251.
- Fear, Ralph G., Oakland, Calif. Storage battery. No. 1,396,172; Nov. 8.
- Fearless Dishwasher Company Inc. (See Barley, W. B., and Corbett, assignors.)



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- Fearn, Richard L., Jr., assignor to National Electrical Supply Company, Washington, D. C. Thermally-controlled electric switch. No. 1,380,049; May 31; v. 286; p. 955.
- Fearn, Richard L., Jr., assignor to National Electrical Supply Company, Washington, D. C. Process of and apparatus for preventing offsetting, &c. No. 1,388,418; Aug. 23; v. 289; p. 669.
- Fearn, William R., Camden, N. J. Kaleidoscope. No. 1,394,480; Oct. 18.
- Feaster, Edward B., Boston, Mass. Flier and making the same. No. 1,393,356; Oct. 11.
- Febrey, Harold H., Newark, N. J. Paper-clip. No. 1,376,753; May 3; v. 286; p. 70.
- Febrey, Harold H., Newark, assignor to The American Steel and Wire Company of New Jersey, Hoboken, N. J. Rail-bond. No. 1,394,818; Oct. 25.
- Fecher, Frederick F. (See Danheiser, T., and Fecher.)
- Fechner, Ernest, and G. Van Deventer, assignors to Aurora Door Hanger and Specialty Company, Aurora, Ill. Trolley-track hanger. No. 1,396,564; Nov. 8.
- Fedden, Albert H. R., and L. F. G. Butler, Bristol, Gloucester, England. Induction-pipe for radial or rotary internal-combustion engines. No. 1,395,980; Nov. 1.
- Fedden, Alfred H. R. and Leonard F. G. Butler, assignors to The Bristol Aeroplane Company, Limited, Bristol, Gloucester County, England. Cylinder for internal-combustion engines. No. 1,398,849; Nov. 29.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Air-regulator for radiators. No. 1,367,031; Feb. 1; v. 283; p. 29.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator. No. 1,368,220; Feb. 8; v. 283; p. 319.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator unit. No. 1,397,625; Nov. 22.
- Fedders, John M., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Radiator unit. No. 1,400,945; Dec. 20.
- Fedders Manufacturing Company. (See Fedders, John M., assignor.)
- Feddersen, Ernest A., and R. F. Schott, San Francisco, Calif. Sheet-feeding device. No. 1,375,042; Apr. 19; v. 285; p. 426.
- Feder, William, assignor to Theo. B. Robertson Products Co., Chicago, Ill. Brush. No. 1,385,532; July 26; v. 288; p. 676.
- Federal Adding Machine Corporation. (See Spiro, Charles, assignor.)
- Federal Arch-Lift Manufacturing Company. (See Ludwig, Walter M., assignor.)
- Federal Finance Corporation. (See Choate, William E., assignor.)
- Federal Machine Products Company, The. (See Green, Lee B., assignor.)
- Federal Products Company. (See Coates, Frederick, assignor.)
- Federal Products Company. (See Rowland, Andrew J., assignor.)
- Federal Rubber Company, The. (See Pratt, Benjamin H., assignor.) (Reissue.)
- Federal Stamping Company. (See Olinger, T., and De Gloppe, assignors.)
- Federal Stamping Company. (See Olinger, Thomas, assignor.)
- Federal Stamping Company. (See Somers, R. B., and Olinger, assignors.)
- Federal System of Bakeries of America, The. (See Kerr, Harry E., assignor.)
- Federal Telegraph Company. (See Fuller, Leonard F., assignor.)
- Federal Tin Company Inc. (See Costello, Frank J., assignor.)
- Fedorko, Basyll, Ansonia, Conn. Envelop-opener. No. 1,400,946; Dec. 20.
- Fedoroff, Vladimir P., New York, N. Y. Alarm-signal. (Reissue.) No. 15,150; July 12; v. 288; p. 356.
- Fedotoff, Nicholas V., Brooklyn, N. Y. High-tension-rectifying apparatus. No. 1,382,965; June 28; v. 287; p. 667.
- Feehey, John, Lodi, N. J. Treating wicks. No. 1,379,857; May 31; v. 286; p. 918.
- Feehey, John M., Bridgeport, Conn. Food-chopper. No. 1,399,295; Dec. 6.
- Feehey, John M., Bridgeport, Conn. Egg-beater. No. 1,399,296; Dec. 6.
- Fegely, John P., Allentown, Pa. Brake mechanism. No. 1,386,559; Aug. 2; v. 289; p. 116.
- Fegraeus, Harold. (See Wangenstein, J. J., and Fegraeus.)
- Fegteborg, William, New York, N. Y. Game. No. 1,395,634; Nov. 1.
- Fehan, John, Buffalo, N. Y. Liquid-discharge device. No. 1,367,773; Feb. 8; v. 283; p. 233.
- Fehling, Christian F., Juneau, Wis. Folding box or crate. No. 1,394,295; Oct. 18.
- Fehn, Frank J., East Orange, assignor to The Whitehead & Hoag Company, Newark, N. J. Badge-fastener. No. 1,386,096; Aug. 2; v. 289; p. 27.
- Fehr, Carl F., Arlington, Kans. Lever-lock for end-gates. No. 1,400,483; Dec. 13.
- Fehr, Walter E., Baltimore, Md. Combined valve-cutter and valve-seat reamer. No. 1,377,470; May 10; v. 286; p. 265.
- Fehring, Adolph G., Minneapolis, Minn. Grain-separator. No. 1,393,993; Oct. 18.
- Fehrm, Victor F., Chicago, Ill. Saw-mounting. No. 1,380,707; June 7; v. 287; p. 73.
- Feibelmann, Rudolph, Cleveland, Ohio. Rail. No. 1,395,805; Nov. 1.
- Feifer, Abraham, Philadelphia, Pa. Wrapping-machine. No. 1,393,768; Oct. 18.
- Felge, William E., Milford, Mass. Leather-finishing machine. No. 1,365,889; Jan. 11; v. 282; p. 303.
- Feightner, Orrie M., Cleveland, Ohio. Steering appliance. No. 1,364,872; Jan. 11; v. 282; p. 203.
- Feiner, Eugene J. (See Lindemann, Max, assignor.)
- Feinstone, Samuel, Brooklyn, assignor of one-half to Freyberg Brothers Inc., New York, N. Y. Garment-belt structure. No. 1,385,533; July 26; v. 288; p. 676.
- Feist, Charles M., Sioux City, Iowa. Self-lubricating axle. No. 1,383,090; June 28; v. 287; p. 690.
- Feist, Sidney E., Brooklyn, N. Y. Apparatus for teaching dancing. No. 1,374,840; Apr. 12; v. 285; p. 324.
- Feist, Sidney E., Brooklyn, N. Y. Figure for ballroom dancing practice. No. 1,378,669; May 17; v. 286; p. 547.
- Feitel, Daniel W., New Orleans, La. Safety-guard for sewing-machines. No. 1,384,607; July 12; v. 288; p. 330.
- Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Oil-cup. No. 1,370,103; Mar. 1; v. 284; p. 66.
- Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Spring-shackle for motor-vehicles. No. 1,376,803; May 3; v. 286; p. 80.
- Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Transmission-lock. No. 1,382,183; June 21; v. 287; p. 463.
- Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Oil-cup. No. 1,391,466; Sept. 20; v. 290; p. 539.
- Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Oil-cup. No. 1,391,467; Sept. 20; v. 290; p. 539.
- Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Stove for intake-manifolds of internal-combustion engines. No. 1,393,994; Oct. 18.
- Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Binding-tip. No. 1,395,403; Nov. 1.
- Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Stove for intake-manifolds of internal-combustion engines. No. 1,396,363; Nov. 8.
- Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Transmission-lock. No. 1,397,926; Nov. 22.
- Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Piston for internal-combustion engines. No. 1,401,899; Dec. 27.
- Fekete, Stephen I., and S. G. Baits, assignors to Essex Motors, Detroit, Mich. Motor-vehicle. No. 1,380,097; May 31; v. 286; p. 964.
- Fekete, Stephen I., and S. G. Baits, assignors to Essex Motors, Detroit, Mich. Automobile-frame member and frame. No. 1,399,201; Dec. 6.
- Felbel, Jacob, New York, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,392,408; Oct. 4.
- Feldcamp, George, *et al.* (See Werts, William D., assignor.)
- Feldine, Michel, New York, N. Y. Contact-breaker mounting. No. 1,365,028; Jan. 11; v. 282; p. 234.
- Feldkamp, Frederick A., Newark, N. J. Duplex-fuse cartridge. No. 1,397,804; Nov. 22.
- Feldkamp, Frederick A., Newark, N. J. Fuse-cartridge. No. 1,397,805; Nov. 22.
- Feldkamp, William J., Brantford, Ontario, Canada. Camping utensil. No. 1,378,846; May 24; v. 286; p. 654.
- Feldman Machine Works, Inc. (See Kornas, Joseph, assignor.)
- Feldman, Morris, Los Angeles, Calif. Clothes-rack. (Reissue.) No. 15,037; Feb. 8; v. 283; p. 321.
- Feldmann, William, Chicago, Ill. Index-card tab. No. 1,373,063; Mar. 29; v. 284; p. 842.
- Feldt, Henning A. (See Joyce, W. P., and Feldt.)
- Felger, F. & F. (See Felger, Frederick H., assignor.)
- Felger, Frederick H., assignor to F. & F. Felger, Inc., Newark, N. J. Link bracelet. No. 1,376,866; May 3; v. 286; p. 93.
- Felgner, Charles W., *et al.* (See Donner, Stephen, assignor.)
- Felix, Louis, Warba, Minn. Weighing-fork. No. 1,380,199; May 31; v. 286; p. 983.
- Felker, Frank J. (See Barron, L. L., Wolken, and Felker.)
- Fell, Louis F. R. F., Filey, England. Means for absorbing power and determining the reaction on engines. No. 1,369,018; Feb. 22; v. 283; p. 561.
- Fell, Thomas J., Green River, Ill. Traction system. No. 1,368,913; Feb. 15; v. 283; p. 502.
- Fell, William, assignor to Visible Gasoline Filter Company, Chicago, Ill. Gasoline-testing device. No. 1,396,565; Nov. 8.
- Feller, Joseph E., Brooklyn, N. Y. Starting and speed-limiting device for electric motors. No. 1,367,592; Feb. 8; v. 283; p. 199.



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- Fellowes, Frank. (See Macbeth, C., and Fellowes.)  
 Fellowes, Harry L., assignor to Bankers Box Company, Chicago, Ill. Foldable box and blank therefor. No. 1,369,642; Feb. 22; v. 283; p. 682.  
 Fellowes, James A., assignor to Globe Ticket Company, Philadelphia, Pa. Ticket or check notching device. No. 1,391,536; Sept. 20; v. 290; p. 553.  
 Fellowes, Perry E., Rochester, N. Y. Tire-chain connection. No. 1,368,030; Feb. 8; v. 283; p. 281.  
 Felt & Tarrant Manufacturing Company. (See Turck, Joseph A. V., assignor.)  
 Feltham, Percy M., Edgefield, S. C. Danger-signal. No. 1,364,490; Jan. 4; v. 282; p. 86.  
 Felthousen, John H., assignor to S. Morgan Smith Co., York, Pa. Turbine-gate. No. 1,366,252; Jan. 18; v. 282; p. 511.  
 Feltman, Charles L., Brooklyn, N. Y. Garment-supporter. No. 1,394,720; Oct. 25.  
 Felton, August C., La Salle, Ill. Clamp. No. 1,375,686; Apr. 26; v. 285; p. 581.  
 Felton, Charles H., Michigan City, Ind. Dust-separator. No. 1,390,284; Sept. 13; v. 290; p. 238.  
 Fenchelle, Hugh E., Genoa, Italy, assignor to W. L. Kann, trustee, Pittsburgh, Pa. Internal-combustion engine. No. 1,266,315; Jan. 18; v. 282; p. 523.  
 Fender, Nicholas, Chicago, Ill. Freight-car. No. 1,377,122; May 3; v. 286; p. 142.  
 Fenderson, Benjamin F., assignor of one-half to A. W. Bradley, Haverhill, Mass. Automobile-number-plate holder. No. 1,371,674; Mar. 15; v. 284; p. 476.  
 Fendner, Willard J. (See Beach, H. L., and Fendner.)  
 Fenlason, Orin C., Portland, Oreg. Folding loose-bottom box. No. 1,381,978; June 21; v. 287; p. 426.  
 Fenlason, Orin C., Portland, Oreg. Wood and tin bound basket. No. 1,381,979; June 21; v. 287; p. 426.  
 Fenley, Robert H., Fort Worth, Tex. Puncture-proof automobile. No. 1,381,815; June 14; v. 287; p. 335.  
 Fenn, Margaret. (See Fenn, William B., assignor.)  
 Fenn, William B., New York, N. Y. Sterilizing canned goods. No. 1,378,531; May 17; v. 286; p. 520.  
 Fenn, William B., assignor to The Wedoit Company, Columbus, Ohio. Cooking or sterilizing machine. No. 1,377,245; May 10; v. 286; p. 221.  
 Fenn, Ray, Providence, R. I., assignor to Hemphill Company, Central Falls, R. I. Knitting-needle. No. 1,364,088; Jan. 4; v. 282; p. 8.  
 Fenn, William B., New York, assignor to M. Fenn, Port Washington, N. Y. Sterilizing canned fruits, vegetables, or the like. No. 1,365,673; Jan. 18; v. 282; p. 397.  
 Fennell, Eleanor, New York, N. Y. Indicator for musical instruction. No. 1,400,947; Dec. 20.  
 Fennell, James T., Philadelphia, Pa. Boiler. No. 1,378,847; May 24; v. 286; p. 654.  
 Fennell, John B., and E. B. Flowers, Columbia, S. C. Means for attaching picker-stick checks to loom-lays. No. 1,386,169; Aug. 2; v. 289; p. 41.  
 Fenner, Herbert E., Bryn Mawr, Pa. Automobile-lock. No. 1,395,337; Nov. 1.  
 Fenske, Daniel, assignor of one-half to J. C. Kleist, Milwaukee, Wis. Flying-machine. No. 1,378,100; May 17; v. 286; p. 438.  
 Fensky, Henry A., Ladysmith, Wis. Pulp-feed regulator. No. 1,397,415; Nov. 15.  
 Fenstermacher, William L., Bath, N. Y. Splice-plate for railway-rails. No. 1,368,710; Feb. 15; v. 283; p. 463.  
 Fenton, James T., Salt Lake City, Utah. Cracking and distilling oil. No. 1,394,481; Oct. 18.  
 Fenton, James T., Salt Lake City, Utah. Process and apparatus for treating oil-bearing solids. No. 1,396,173; Nov. 8.  
 Fenton, James T., Salt Lake City, Utah. Apparatus for cracking and distilling oil. No. 1,396,174; Nov. 8.  
 Fenton, John F., Kansas City, Kans. Combination spike-puller. No. 1,395,26; Nov. 1.  
 Fenton, William H. (See Shirek, S., and Fenton.)  
 Fenton, William T., et al., trustees. (See Stephenson, Leigh J., assignor.)  
 Fenwick, Donald A., Bisbee, Ariz. Razor. No. 1,368,914; Feb. 15; v. 283; p. 502.  
 Fenwirth, Frederick H., New York, N. Y. Extension-rule. No. 1,391,621; Sept. 20; v. 290; p. 570.  
 Ferch, Calvin J., Grand Forks, N. D. Harness attachment. No. 1,372,411; Mar. 22; v. 284; p. 673.  
 Ferdinand Strauss. (See Berger, Samuel, assignor.)  
 Ferdon, Guy W., Cresskill, N. J. Sink-refuse shovel. No. 1,367,031; Feb. 1; v. 283; p. 30.  
 Ferdon, Guy W., Cresskill, N. J. Conical straining device. No. 1,395,951; Nov. 1.  
 Ferdon, Guy W., Cresskill, N. J. Food-press. No. 1,399,708; Dec. 6.  
 Ferenback, Leon, Silk Co., The. (See Cetwick, Emmet L., assignor.)  
 Ferencz, Szabo. (See Szakács, J., and Ferencz.)  
 Ferentz, Max L. (See Zeidler, W. A., and Ferentz.)  
 Ferentzi, Rudolph, Newark, N. J. Heated bed. No. 1,395,912; Nov. 1.  
 Ferestre, Henry, Brooklyn, N. Y. Control device. No. 1,394,158; Oct. 18.  
 Ferguson, Alexander, Scorrier, assignor to F. W. Passmore, London, England. Apparatus to be employed in the manufacture of hollow articles of glass. No. 1,371,085; Mar. 8; v. 284; p. 298.  
 Ferguson, Alexander D., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. No. 1,394,819; Oct. 25.  
 Ferguson, Charles H., Valhalla, N. Y., assignor to Home Electric Lighting Company, East Orange, N. J. Portable electric light and power plant. No. 1,399,853; Dec. 13.  
 Ferguson, David. (See Scheiwer, A. T., and Ferguson.)  
 Ferguson, David, and A. T. Scheiwer, assignors to Accurate Tool Works, Erie, Pa. Quick-detachable swivel-coupling. No. 1,371,882; Mar. 15; v. 284; p. 515.  
 Ferguson, E. M., et al. (See Auger, Joseph T., assignor.)  
 Ferguson, Edward E., Portsmouth, assignor of one-half to C. Van Fleming, Norfolk, Va. Combined fire-alarm box and hydrant. No. 1,391,622; Sept. 20; v. 290; p. 570.  
 Ferguson Forge Engineering Co. (See Ferguson, Thomas B., assignor.)  
 Ferguson, Frank A., Waterloo, Iowa. Ventilating-screen for windows. No. 1,372,128; Mar. 22; v. 284; p. 619.  
 Ferguson, George, Quincy, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making turnshoes. No. 1,381,910; June 21; v. 287; p. 413.  
 Ferguson, George, Wollaston, Mass., assignor by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Rubber sole for boots and shoes. No. 1,382,768; June 28; v. 287; p. 629.  
 Ferguson, George E. (See Eckelmann, L. E., and Ferguson.)  
 Ferguson, George E., New York, N. Y., assignor to Pyrene Manufacturing Company. Chemical heater. No. 1,385,074; July 19; v. 288; p. 507.  
 Ferguson, George E., New York, N. Y., assignor to Pyrene Manufacturing Company. Preventing crystallization of a melted mass of crystals. No. 1,385,075; July 19; v. 288; p. 507.  
 Ferguson, George J., St. Louis, Mo. Fluid-pressure generator with automatic air compressor. No. 1,382,769; June 28; v. 287; p. 629.  
 Ferguson, Harry, Belfast, Ireland. Tractor-hitch. No. 1,379,399; May 24; v. 286; p. 758.  
 Ferguson, James, and W. H. Bennett, Vancouver, British Columbia, Canada. Telephone-mouthpiece disinfectant. No. 1,390,896; Sept. 13; v. 290; p. 360.  
 Ferguson, John A., Denver, Colo. Building-block. No. 1,365,162; Jan. 11; v. 282; p. 259.  
 Ferguson, John L., Joliet, Ill. Forming containers. No. 1,393,274; Oct. 1.  
 Ferguson, Lorne E., Parkland, Alberta, Canada. Pipe-holder. No. 1,384,055; July 12; v. 288; p. 215.  
 Ferguson, Reuben L., Hondale, N. Mex. Liquid seal for pumps. No. 1,401,060; Dec. 20.  
 Ferguson, Robert F., Detroit, Mich. Support or holder. No. 1,366,528; Jan. 25; v. 282; p. 609.  
 Ferguson, Thomas B., Newark, N. J., assignor to Ferguson Forge Engineering Co. Oil-burner. No. 1,384,943; July 19; v. 288; p. 479.  
 Ferguson, Von G., Fairbury, Nebr. Locomotive draft appliance. No. 1,364,089; Jan. 4; v. 282; p. 8.  
 Ferguson, William, Philadelphia, Pa. Garter. No. 1,373,123; Mar. 29; v. 284; p. 854.  
 Ferguson, William C., St. Louis, Mo. Apparatus for purifying and disposing of sewage. No. 1,380,200; May 31; v. 286; p. 983.  
 Ferguson, William H., assignor of one-half to G. A. Dillon, Spray, N. C. Machine-stand. No. 1,371,154; Mar. 8; v. 284; p. 311.  
 Ferguson, Alan R., Wilmington, N. C. Means for mechanical indexing. No. 1,367,311; Feb. 1; v. 283; p. 85.  
 Ferguson, David, assignor to The Pierce Arrow Motor Car Company, Buffalo, N. Y. Change-speed-gear transmission. No. 1,396,512; Nov. 8.  
 Feriani, Gaetano, assignor to Società Brevetti Feriani, Rome, Italy. Winch. No. 1,393,436; Oct. 11.  
 Ferland, Napoleon H., assignor to The American Novelty Company, Incorporated, Norwood, Mass. Combustion-promoting device for stoves. No. 1,377,010; May 3; v. 286; p. 120.  
 Ferlin, John J. (See Zanon, Remo C., assignor.)  
 Fermier, Henry, Mahanoy City, Pa. Sliding door. No. 1,371,553; Mar. 15; v. 284; p. 453.  
 Fernald, Mark E. (See Blake, C. C., and Fernald.)  
 Fernald, Mark E., Saugus, Mass. Sole-marking machine. No. 1,393,105; Oct. 11.  
 Fernandez, Abel, Mexico, Mexico. Automatic cut-out. No. 1,372,495; Mar. 22; v. 284; p. 689.  
 Fernandez, Alphonse, Washington, D. C. Window-cleaning device. No. 1,376,195; Apr. 26; v. 285; p. 677.  
 Fernandez, Ataulfo, San Francisco, Calif. Refuse-collection vehicle. No. 1,379,007; May 24; v. 286; p. 684.  
 Fernandez, Manuel G., Buenos Aires, Argentina. Sugar-cane mill. No. 1,390,693; Sept. 13; v. 290; p. 319.  
 Fernandez, Victor G., New York, N. Y. Two-in-one garbage-can. No. 1,382,634; June 28; v. 287; p. 603.  
 Fernans, Anthony W., Pawtucket, R. I. Traffic-signal for automobiles. No. 1,368,915; Feb. 15; v. 283; p. 502.  
 Fernside, George W., Hartford, Conn. Grinder for lawnmowers. No. 1,383,091; June 28; v. 287; p. 691.  
 Ferr, Henry, Mason City, Iowa. Window. No. 1,381,070; June 7; v. 287; p. 144.



*Alphabetical list of patentees—Continued.*

- Ferr, Henry, Mason City, Iowa. Attachment for oil-stoves. No. 1,389,497; Aug. 30; v. 289; p. 936.
- Ferragamo, Salvatore, Santa Barbara, Calif. Turnbuckle. No. 1,393,614; Oct. 11.
- Ferragamo, Salvatore, Santa Barbara, Calif. Surgical appliance. No. 1,399,606; Dec. 6.
- Ferrand, Alfred F., New Brunswick, N. J. Indicator. No. 1,373,319; Mar. 29; v. 284; p. 894.
- Ferrall, John J., Ridgewood, N. J., assignor to National Biscuit Company, New York, N. Y. Container. No. 1,399,948; Dec. 13.
- Ferrall, John J., Ridgewood, N. J., P. J. Sundheim, Cincinnati, Ohio, and C. H. Trelawny, Queens, N. Y., assignors to National Biscuit Company, New York, N. Y. Container. No. 1,399,947; Dec. 13.
- Ferrari, Pablo, assignor to the Company Bombrini Parodi-Dolfini, Rome, Italy. Manufacture of slow-setting cement. No. 1,372,015; Mar. 22; v. 284; p. 593.
- Ferrari, Lorenzo, Oakland, Calif. Educational apparatus. No. 1,384,801; July 19; v. 288; p. 450.
- Ferraro, Michelangelo, Paterson, N. J. Hammer. No. 1,396,822; Nov. 15.
- Ferraro, Vincent, Chicago, Ill. Garment-pocket. No. 1,372,067; Mar. 22; v. 284; p. 607.
- Ferree, John W., Phoenix, Ariz. Burner. No. 1,369,230; Feb. 22; v. 283; p. 602.
- Ferrier, Walter, Elyria, assignor to The Elyria Iron and Steel Company, Cleveland, Ohio. Control device for automatic machines. No. 1,385,369; July 26; v. 288; p. 642.
- Ferris, Frank E., assignor to The Zenith Carburetor Company, Detroit, Mich. Profiling-machine. No. 1,367,542; Feb. 8; v. 283; p. 189.
- Ferris, Fred H., Wilmington, Del. Modulator. No. 1,382,493; June 21; v. 287; p. 523.
- Ferris, John, Englewood, Colo. Spraying device. No. 1,370,687; Mar. 8; v. 284; p. 223.
- Ferris, Nunez C., New York, N. Y. Music-sheet-tracking device. No. 1,365,312; Jan. 11; v. 282; p. 288.
- Ferris, Ralph E., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,365,585; Jan. 11; v. 282; p. 341.
- Ferris, William E., Cleveland, Ohio, assignor to The Ohio Trailer Company. Trailer-truck for industrial purposes. No. 1,378,445; May 17; v. 286; p. 503.
- Ferro Chemicals. (See Franchot, Richard, assignor.)
- Ferro Chemicals, Inc. (See McElroy, Karl P., assignor.)
- Ferron, Arthur. (See Auger, Victor, assignor.)
- Ferry, D. M., & Co. (See Bowen, E. W., and Turner, assignors.)
- Ferry, Thomas F. (See Ahlm, C. E. F., and Ferry.)
- Fertig, Charles W., and A. J. May, assignors to Ritter Dental Manufacturing Company, Rochester, N. Y. Headrest for chairs. No. 1,396,175; Nov. 8.
- Fertig, James A. (See Gorman, J. B., and Fertig.)
- Fertman, Isidor. (See Koretzky, H. M., and Fertman.)
- Féry, Charles J. V., Paris, France. Electric storage battery. No. 1,371,746; Mar. 15; v. 284; p. 489.
- Fessler, Douglas F., Evanston, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating system. No. 1,387,843; Aug. 16; v. 289; p. 498.
- Fessler, Douglas F., Evanston, assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricating device. No. 1,388,939; Aug. 30; v. 289; p. 825.
- Fessler, Milton A. (See Glendenning, Everett B., assignor.)
- Fessler, Milton A., Oakland, Calif., assignor, by mesne assignments, to Petroleum Heat and Power Company. Burner. No. 1,365,163; Jan. 11; v. 282; p. 259.
- Fessler, Milton A., Oakland, Calif., assignor, by mesne assignments, to Petroleum Heat and Power Company. Liquid-feed system. No. 1,365,164; Jan. 11; v. 282; p. 259.
- Fessler, Milton A., Oakland, Calif., assignor, by mesne assignments, to Petroleum Heat and Power Company. Lubricating device for shaft-bearings. No. 1,370,803; Mar. 8; v. 284; p. 245.
- Fessler, Milton A., assignor to Petroleum Heat and Power Company, Oakland, Calif. Liquid-fuel-burning furnace. No. 1,376,010; Apr. 26; v. 285; p. 642.
- Fessler, Milton A., Oakland, Calif., assignor, by mesne assignments, to Petroleum Heat and Power Company. Oil-burner system. No. 1,396,823; Nov. 15.
- Fessenden, Chet C., Derby, Conn. Lathe-dog. No. 1,375,499; Apr. 19; v. 285; p. 512.
- Fessenden, Reginald A., Chestnut Hill, Mass. Wireless direction-finder. No. 1,374,293; Apr. 12; v. 285; p. 218.
- Fessenden, Reginald A., Newton, Mass., assignor to Submarine Signal Company, Portland, Me. Destroying enemy gun positions. No. 1,383,219; June 28; v. 287; p. 711.
- Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for signaling and otherwise utilizing radiant impulses. No. 1,384,014; July 5; v. 288; p. 157.
- Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Sound signaling. No. 1,384,029; July 5; v. 288; p. 160.
- Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Submarine signaling. No. 1,394,482; Oct. 18.
- Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for submarine signaling. No. 1,397,949; Nov. 22.
- Fessenden, Reginald A., Newton, Mass., assignor to Submarine Signal Company, Portland, Me. Destroying enemy gun positions. No. 1,384,030; July 5; v. 288; p. 160.
- Fessenden, Reginald A., Chestnut Hill, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for submarine signaling. No. 1,394,483; Oct. 18.
- Fessenden, Reginald A., Chestnut Hill, Mass., assignor to Submarine Signal Company, Portland, Me. Stop-clock. No. 1,397,950; Nov. 22.
- Fessler, Charles, assignor to Fisher Body Corporation, Detroit, Mich. Method and apparatus for protecting workmen sandpapering automobile-bodies. No. 1,392,870; Oct. 4.
- Festa, John, Brooklyn, N. Y. Gas-burner. No. 1,394,721; Oct. 25.
- Fetherston, Henry M., et al. (See Flude, Daniel J., assignor.)
- Fetrow, William G. (See Eberly, E., and Fetrow.)
- Fetter, Edward, Baltimore, Md., assignor, by mesne assignments, to The Pneumatic Tube Steam Splicer Company, Baltimore, Md. Splice-curing method and apparatus. No. 1,364,362; Jan. 4; v. 282; p. 61.
- Fetter, Edward, assignor to The Pneumatic Tube Steam Splicer Company, Baltimore, Md. Vulcanizing apparatus and process. (Reissue.) No. 15,076; Apr. 5; v. 285; p. 153.
- Fetterly, John F., Altoona, Pa. Drilling-jig. No. 1,389,569; Aug. 30; v. 289; p. 950.
- Fetters, Arthur H. (See Fuller, Charles E., assignor.)
- Fetters, Charles A., Washington, D. C. Baggage-tag. No. 1,384,457; July 12; v. 288; p. 298.
- Fetters, Charles A., Washington, D. C. Collapsible suitcase. No. 1,387,597; Aug. 16; v. 289; p. 448.
- Fettinger, Enos J., Fort Branch, Ind. Safety device for elevators. No. 1,390,111; Sept. 6; v. 290; p. 112.
- Fetto, John. (See Erik, Emil, assignor.)
- Fetzer, William, J. G. Freres, Springfield, and O. A. Elliott, Marion, assignors to International Sanitation & Development Company, Springfield, Ill. Incinerating-furnace. No. 1,398,184; Nov. 22.
- Feucht, George C., et al. (See Brocke, Gerhard, assignor.)
- Feuerbeerd, Ernest, Walton, England. Rotary motor or pump. No. 1,389,189; Aug. 30; v. 289; p. 875.
- Feuerman, Richard. (See Hirk, William W., assignor.)
- Fevola, Rose and A., Brooklyn, N. Y. Radiator. No. 1,375,500; Apr. 19; v. 285; p. 512.
- Feyk, Anton. (See Dusha, P. F., and Feyk.)
- Fibre Can Corporation. (See Ford, Ben K., assignor.)
- Fibre Can Corporation. (See Jehn, William E., assignor.)
- Fibre Container Company. (See Walter, Harrison B., assignor.)
- Fibre Corporation Limited, The. (See Michot, Georges, assignor.)
- Fibreboard Company. (See Clapp, Albert L., assignor.)
- Fickett, Ernest L., and V. Charushin, Fitchburg, Mass., assignors to Manning, Maxwell & Moore, Inc., New York, N. Y. Tool-holder. No. 1,391,375; Sept. 20; v. 290; p. 520.
- Ficklen, William E., Norfolk, Va. Making pavements. No. 1,383,459; July 5; v. 288; p. 42.
- Ficklen, William E., Norfolk, Va. Metal-reinforcing frame for concrete structures. No. 1,392,315; Oct. 4.
- Fidelity Machine & Manufacturing Co. (See Larkin, Walter, assignor.)
- Fidler, Francis, Wigan, Lancashire, and J. G. Maxwell, London, England. Kiln. No. 1,364,090; Jan. 4; v. 282; p. 8.
- Fidler, Vene L., Baltimore, Md. Paper-cutting machine. No. 1,365,475; Jan. 11; v. 282; p. 320.
- Fiebigler, John H., West New York, N. J. Composition for dyeing animal fiber. No. 1,383,092; June 28; v. 287; p. 697.
- Fiedler, Sebastian O. A., assignor to l'Auxiliaire des Chemins de Fer et de l'Industrie, Paris, France. Means for supplying steam-boilers with feed-water. No. 1,391,308; Sept. 20; v. 290; p. 507.
- Fieg, Lothar, Oneonta, N. Y. Railway-tie. No. 1,396,566; Nov. 8.
- Fiego, Alexander J. R., Lynn, Mass., assignor to General Electric Company. Electrical measuring instrument. No. 1,394,983; Oct. 25.
- Field, Allan J., New York, N. Y. Dyestuff and making the same. No. 1,383,710; July 5; v. 288; p. 94.
- Field, Allan J., New York, N. Y. Monoazo dyestuff. No. 1,383,711; July 5; v. 288; p. 95.
- Field, Chester E., Boston, Mass., assignor, by mesne assignments, to Barber Colman Company, Rockford, Ill. Apparatus for separating heddies or the like. No. 1,399,854; Dec. 13.
- Field, Crosby, Brooklyn, assignor to Chemical Machinery Corporation, New York, N. Y. Heat-transference apparatus. No. 1,389,637; Sept. 6; v. 290; p. 15.
- Field, Crosby, Yonkers, N. Y., and W. E. Newell, Bayonne, N. J., assignor to National Aniline & Chemical Co., Inc. Seal for containers. No. 1,399,949; Dec. 13.
- Field, Edward A., Jr. (See Field, Edward A. and E. A., Jr.)



*Alphabetical list of patentees—Continued.*

- Field, Edward A. and E. A., Jr., Oak Park, Ill. Internal-combustion engine. No. 1,372,343; Mar. 22; v. 284; p. 660.
- Field, Edward A. and E. A., Jr., Oak Park, Ill. Internal-combustion engine. No. 1,373,876; Apr. 5; v. 285; p. 97.
- Field, Ernest L., and F. B. Grabill, Oakland, Calif. Safety device for automobiles. No. 1,365,235; Jan. 11; v. 282; p. 273.
- Field, Frank H., Jamestown, N. Y. Shock-absorber. No. 1,378,532; May 17; v. 286; p. 520.
- Field, John C., Litcher, La. Safety split set collar. No. 1,391,727; Sept. 27; v. 290; p. 665.
- Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,367,774; Feb. 8; v. 283; p. 234.
- Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vibrator. No. 1,368,916; Feb. 15; v. 283; p. 502.
- Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,369,019; Feb. 22; v. 283; p. 561.
- Field, Joseph C., Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. High-capacity selective signaling system. No. 1,371,748; Mar. 15; v. 284; p. 490.
- Field, Joseph C., Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective signaling system. No. 1,378,943; May 24; v. 286; p. 672.
- Field, Millard F., Boston, Mass., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Machine for operating upon warps. No. 1,364,091; Jan. 4; v. 282; p. 8.
- Field, Millard F., Winthrop, Mass., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Textile-machine. No. 1,364,092; Jan. 4; v. 282; p. 8.
- Field, Millard F., Winthrop, Mass., assignor to Barber-Colman Company, Rockford, Ill. Machine for operating upon warps. No. 1,383,712; July 5; v. 288; p. 95.
- Field, Millard F., Winthrop; C. D. Lanning, E. F. Hathaway, Boston, Mass., and F. C. Blanchard, Fort Wayne, Ind., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Machine for operating upon warp-threads. No. 1,373,195; June 28; v. 287; p. 710.
- Field, Samuel, assignor to The Metals Extraction Corporation Limited, London, England. Purification of zinc solutions. No. 1,382,494; June 21; v. 287; p. 523.
- Fieldhouse, John. (See Adam, M. A., Stevenson, Mabbitt, and Fieldhouse.)
- Fielding, Fred, and T. Potter, Jr., Oldham, England. Anti-balloon and the like device for ring-spinning and doubling frames. No. 1,391,883; Sept. 27; v. 290; p. 696.
- Fielding, John, Providence, R. I. Pin-catch. No. 1,382,966; June 28; v. 287; p. 667.
- Fielding, John, Providence, assignor of one-half to J. P. Whitaker, Apponaug, R. I. Safety-catch. No. 1,373,124; Mar. 29; v. 284; p. 854.
- Fielding, John, Providence, assignor of one-half to J. P. Whitaker, Apponaug, R. I. Safety-catch. No. 1,373,125; Mar. 29; v. 284; p. 854.
- Fielding, John, Providence, assignor of one-half to J. P. Whitaker, Apponaug, R. I. Safety-catch. No. 1,382,635; June 28; v. 287; p. 603.
- Fields, Alpheus, *et al.* (See Parker, George C., assignor.)
- Fields, Edgar C., Lyons, Ind. Rail-joint. No. 1,380,369; June 7; v. 287; p. 9.
- Fields, John J., 3d. (See Hoornbeek, Lodewyck, assignor.)
- Fields, Joseph P., Attapulgus, Ga. Peanut-harvesting machine. No. 1,375,578; Apr. 19; v. 285; p. 527.
- Fields, Will G. (See Chewning, Eugene F., assignor.)
- Fienberg, Nathan, Bondi, near Sydney, and W. L. Wakeham, Five Dock, near Sydney, New South Wales, Australia. Electric-lock strike. No. 1,383,269; June 28; v. 287; p. 724.
- Fienup, Henry F., Wellston, Mo. Automobile-lifting device. No. 1,380,548; June 7; v. 287; p. 42.
- Fierke, John F., assignor to Illinois Iron & Bolt Company, Carpentersville, Ill. Axle assembly. No. 1,367,869; Feb. 8; v. 283; p. 252.
- Fierlein, Albert L., Batavia, Ill. Educational toy. No. 1,386,170; Aug. 2; v. 289; p. 41.
- Fierlein, Albert L., Batavia, Ill. Swimming doll. No. 1,399,855; Dec. 13.
- Fies, Herbert W., Cleveland Heights, assignor of one-half to M. L. Jeffrey, Cleveland, Ohio. Safety-shoe for ladders. No. 1,379,808; May 31; v. 286; p. 909.
- Fifer, William A., assignor to The Quincy Show Case Works, Quincy, Ill. Show-case. No. 1,369,091; Feb. 22; v. 283; p. 575.
- Fifield, Albert F. (See Barron, W. L., and Fifield.)
- Fifield, Albert F., Newark, N. J., assignor to The Singer Manufacturing Company. Button-sewing machine. No. 1,373,227; Mar. 29; v. 284; p. 875.
- Fifield, Jasper E., San Diego, Calif. Core for molding hollow walls. No. 1,373,877; Apr. 5; v. 285; p. 97.
- Figaro Chemical Co. (See Pletcher, Lyle J., assignor.)
- Figures, Abraham F., Womack Hill, Ala. Trench-digger. No. 1,366,253; Jan. 18; v. 282; p. 511.
- Filbar Electric Heater, Limited. (See Kratt, Charles, assignor.)
- Filben, William M. (See Quill, Charles J., assignor.)
- Filikwik Company. (See Dahlgren, Leonard, assignor.)
- Filippi, Antoine P., assignor to Henri J. L. M. de la Chevadiere de la Grandville, Paris, France. Propeller. No. 1,378,776; May 17; v. 286; p. 568.
- Filippini, Pedro, Mazatlan, Mexico. Fan attachment for sewing-machines. No. 1,366,776; Jan. 25; v. 282; p. 659.
- Fillingame, John E., and J. M. Rideout, Washington, D. C. Wrapping device. No. 1,364,093; Jan. 4; v. 282; p. 9.
- Filmusic Company. (See Myers, Edgar W., assignor.)
- Filson, Albert S., San Diego, Calif. Violin-tailpiece. No. 1,369,092; Feb. 22; v. 283; p. 576.
- Filson, Emmett L. (See Barber, L., and Filson.)
- Finberg, David H., St. Louis, Mo. Heel-clamp. No. 1,365,674; Jan. 18; v. 282; p. 397.
- Finberg, David H., St. Louis, Mo. Heel-clamp. No. 1,365,675; Jan. 18; v. 282; p. 397.
- Finberg, David H., St. Louis, Mo. Shoe-heel. No. 1,381,980; June 21; v. 287; p. 426.
- Finch, Clifford L., Minneapolis, Minn. Signal-operator for spreading rails. No. 1,383,093; June 28; v. 287; p. 691.
- Finch, Clifton R., New York, N. Y. Furnace-brick. No. 1,381,625; June 14; v. 287; p. 298.
- Finch, Joda, Great Neck, N. Y. Automobile attachment. No. 1,388,940; Aug. 30; v. 289; p. 825.
- Finch, John S., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Button-stapling machine. No. 1,364,264; Jan. 4; v. 282; p. 42.
- Finch, John S., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Button-stapling machine. No. 1,364,265; Jan. 4; v. 282; p. 43.
- Finch, John S., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Power-transmitter. No. 1,387,136; Aug. 9; v. 289; p. 304.
- Finch, John S., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,394,075; Oct. 18.
- Finch, Maurice S., assignor to Specialty Shoe Machinery Company, St. Joseph, Mo. Machine for feeding and driving nails. No. 1,401,767; Dec. 27.
- Finch, Stanley W., Washington, D. C. Lubricating system. No. 1,383,919; July 5; v. 288; p. 137.
- Finch, Stanley W., Washington, D. C., and E. M. Kennard, Clarendon, Va. Transmission-control device for motor-vehicles. No. 1,392,316; Oct. 4.
- Finckh, Fritz, Essen, assignor to Fried. Krupp Aktien-gesellschaft, Essen-on-the-Ruhr, Germany. Barrel-recoil gun. No. 1,379,543; May 24; v. 286; p. 785.
- Finckh, Fritz, Essen, assignor to Fried. Krupp Aktien-gesellschaft, Essen-on-the-Ruhr, Germany. Barrel-recoil gun. No. 1,394,984; Oct. 25.
- Findley, John, De Soto, Kans. Pipe-wrench. No. 1,390,112; Sept. 6; v. 290; p. 112.
- Findley, William A., San Francisco, Calif. Turning and beading tool. No. 1,381,406; June 14; v. 287; p. 258.
- Fine, Lewis, assignor to Budd Wheel Corporation, Philadelphia, Pa. Gaging device. No. 1,369,275; Feb. 22; v. 283; p. 611.
- Fine, Lewis, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Apparatus for assembling wire wheels. No. 1,398,227; Nov. 29.
- Finefrock, John A., Canal Fulton, Ohio. Differential gearing. No. 1,373,657; Apr. 5; v. 285; p. 53.
- Fingerle, August C. (See Harris, George W., assignor.)
- Finigan, Samuel P., Cleveland, Ohio. Ointment composition and making same. No. 1,372,496; Mar. 22; v. 284; p. 690.
- Finizio, Thomas D., Kitchawan, N. Y., assignor to Steatite Electric Products Corporation. Electric iron. No. 1,395,635; Nov. 1.
- Fink, Colin G., Yonkers, assignor to Chile Exploration Company, New York, N. Y. Alloy. No. 1,384,056; July 12; v. 288; p. 215.
- Fink, I. S. (See Redding, Harry B., assignor.)
- Fink, Henry A., Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y. Magazine for blanks of sheet metal. No. 1,392,750; Oct. 4.
- Fink, Marvin D., New York, N. Y. Closure for containers. No. 1,371,778; Mar. 15; v. 284; p. 495.
- Fink, Ralph A. (See Baumann, G. P., and Fink.)
- Fink, William B. (See Bourdeau, J. D., and Fink.)
- Fink, William B., assignor of one-half to G. F. Hullings, New York, N. Y. Washing-machine. No. 1,373,494; Apr. 5; v. 285; p. 23.
- Finke, Fred H., Milwaukee, Wis. Time-controlled lighting system. No. 1,395,806; Nov. 1.
- Finkelstein, Abraham, Philadelphia, Pa. Pencil-holder. No. 1,374,841; Apr. 12; v. 285; p. 324.
- Finkhausen, William L., Van Wert, Ohio. Cripple's washing device. No. 1,372,412; Mar. 22; v. 284; p. 673.
- Finkl, William F., Chicago, Ill. Process and apparatus for determining the amount of carbon in ferrous metal. No. 1,382,072; June 21; v. 287; p. 443.
- Finlayson, Murdo G., Chicago, Ill. Floor-strip holder. No. 1,375,043; Apr. 19; v. 285; p. 426.
- Finlayson, William A., Detroit, Mich. Radiator. No. 1,386,461; Aug. 2; v. 289; p. 97.
- Finley, Court H., Williamsburg, Iowa. Liquid-supply system. No. 1,391,676; Sept. 27; v. 290; p. 654.
- Finley, David G., Dallas, Tex. Mechanical riding-horse. No. 1,366,372; Jan. 25; v. 282; p. 577.



- Finley, Sam E., Atlanta, Ga. Apparatus for spraying binding media on roads. No. 1,397,045; Nov. 15.
- Finn, Elmer R., Pocatello, Idaho. Egg-poacher. No. 1,397,318; Nov. 15.
- Finn, Gilbert J. (See Day, H. J., and Finn.)
- Finn, John E., Brooklyn, N. Y. Testing attachment for spark-plugs. No. 1,365,972; Jan. 18; v. 282; p. 456.
- Finn, Matthew J., Pittsburgh, Pa. Centrifugal pump. No. 1,397,273; Nov. 15.
- Finn, Robert B., San Francisco, Calif. Retort-cleaner. No. 1,370,201; Mar. 1; v. 284; p. 84.
- Finnegan, Patrick H., Cresco, Iowa. Fence-wire stretcher. No. 1,390,770; Sept. 13; v. 290; p. 335.
- Finnemann, Martin, Kimball, Minn. Portable cooker. No. 1,374,842; Apr. 12; v. 285; p. 324.
- Finney, Tressie V., Oildale, Calif. Attachment for high chairs for babies. No. 1,391,249; Sept. 20; v. 290; p. 495.
- Finstrom, Gustaf L., Chicago, Ill. Portable bed. No. 1,367,955; Feb. 8; v. 283; p. 268.
- Finton, Charles N., Lykens, Pa. Rope-socket. No. 1,387,481; Aug. 16; v. 289; p. 424.
- Fireman, Peter, Trenton, N. J., assignor to Magnetic Pigment Company. Pigment and producing the same. No. 1,392,925; Oct. 11.
- Fireman, Peter, Trenton, N. J., assignor to Magnetic Pigment Company. Pigment and producing the same. No. 1,392,926; Oct. 11.
- Fireman, Peter, Trenton, N. J., assignor to Magnetic Pigment Company. Pigment and producing same. No. 1,392,927; Oct. 11.
- Firestone Steel Products Company, The. (See Mallison, Frank K., assignor.)
- Firestone Steel Products Company, The. (See Swain, Joseph G., assignor.)
- Firestone Steel Products Company, The. (See Woodward, Alva W., assignor.)
- Firestone Tire and Rubber Company, The. (See Bines, William H., assignor.)
- Firestone Tire & Rubber Company, The. (See Bowman, Robert H., assignor.)
- Firestone Tire and Rubber Company, The. (See Bush, A. A., and Freitag, assignors.)
- Firestone Tire and Rubber Company, The. (See Goodenberger, Daniel E., assignor.)
- Firestone Tire and Rubber Company, The. (See Huetter, Andrew, assignor.)
- Firestone Tire and Rubber Company, The. (See Jones, Robert R., assignor.)
- Firestone Tire and Rubber Company, The. (See MacDonald, Frank J., assignor.)
- Firestone Tire and Rubber Company, The. (See Maranville, Harvey F., assignor.)
- Firestone Tire and Rubber Company, The. (See Maranville, H. P., and Stevens, assignors.)
- Firestone Tire & Rubber Company, The. (See McDonald, Frank J., assignor.)
- Firestone Tire and Rubber Company, The. (See McGuire, Lee R., assignor.)
- Firestone Tire and Rubber Company, The. (See Mell, Tod J., assignor.)
- Firestone Tire and Rubber Company, The. (See Putt, Edward D., assignor.)
- Firestone Tire and Rubber Company, The. (See Steele, Charles W., assignor.)
- Firestone Tire & Rubber Company. (See Stevens, W. C., and Steele, assignors.)
- Firestone Tire and Rubber Company, The. (See Stevens, William C., assignor.)
- Firestone Tire and Rubber Company, The. (See Tuttle, John C., assignor.)
- Firm Motorwagenfabrik Berna A-G. (See Rutishauser, Arnold, assignor.)
- Firm Scintilla. (See Bohli, Jacques, assignor.)
- Firman, Max, Brooklyn, N. Y. Lighting-fixture. No. 1,397,274; Nov. 15.
- Firsching, Joseph A., Utica, N. Y. Band-stretcher. No. 1,370,734; Mar. 8; v. 284; p. 232.
- First, Carl O., Meadville, Pa. Car-fender. No. 1,383,196; June 28; v. 287; p. 710.
- First Trust & Savings Company, The, et al., trustees. (See Sommer, William H., assignor.)
- Firth Sterling Steel Company. (See Fairholme, F. C., Hatfield, and Stanfield, assignors.)
- Fiscel, Harry E. (See Janney, W. E., Fiscel, and Miller.)
- Fisch, William F. L., Birmingham, Ala. Dough-room machine. No. 1,365,676; Jan. 18; v. 282; p. 397.
- Fischbach, Many, New York, N. Y. Belt-tightener. No. 1,374,643; Apr. 12; v. 285; p. 286.
- Fischbacher, Philip, Quincy, Ill., assignor to American Sanitary Refrigeration Co., Owensboro, Ky. Refrigerating-machine. No. 1,389,747; Sept. 6; v. 290; p. 37.
- Fischedick, Oscar F., and A. W. Krahn, Milwaukee, Wis. Washing-machine. No. 1,382,636; June 28; v. 287; p. 604.
- Fischer, A. T. (See Horr, John V., assignor.)
- Fischer, Albert C., Kansas City, Mo. Power-contained-drive-wheel. No. 1,370,289; Mar. 1; v. 284; p. 103.
- Fischer, Alexander, Jr., Cincinnati, Ohio. Mop. No. 1,387,644; Aug. 16; v. 289; p. 458.
- Fischer, Charles, New York, N. Y. Telephone-stand. No. 1,371,717; Mar. 15; v. 284; p. 490.
- Fischer, Ernst G., Washington, D. C. Fine-motion device for surveying and other instruments. No. 1,376,327; Apr. 26; v. 285; p. 703.
- Fischer, Ernst G., Washington, D. C. Artificial horizon. No. 1,386,695; Aug. 9; v. 289; p. 216.
- Fischer, Ferdinand, Berlin, Germany. Universal joint. No. 1,397,951; Nov. 22.
- Fischer, Gustav A., Cleveland, Ohio. Dry-swim apparatus. No. 1,395,672; Nov. 1.
- Fischer, Henry F., assignor of one-fourth to J. F. Douthat and one-half to S. J. House, trustee, Memphis, Tenn. Detachable milling head for shapers. No. 1,364,925; Jan. 11; v. 282; p. 213.
- Fischer, Henry J., and B. M. Wolf, Manchester, N. H. Holder and illuminator for number-plates. No. 1,392,751; Oct. 4.
- Fischer, Herman H., assignor of one-half to B. F. Patschke, Lebanon, Pa. Tire-rim tool. No. 1,366,173; Jan. 18; v. 282; p. 495.
- Fischer, Howard L., St. Paul, Minn. Pencil. No. 1,381,981; June 21; v. 287; p. 426.
- Fischer, Howard L., St. Paul, Minn. Pencil. No. 1,389,426; Aug. 30; v. 289; p. 922.
- Fischer, Howard L., assignor to Brown & Bigelow, St. Paul, Minn. Pencil. No. 1,370,420; Mar. 1; p. 284; p. 126.
- Fischer, Howard L., and F. J. Kristofek, St. Paul, Minn. Pencil. No. 1,375,579; Apr. 19; v. 285; p. 527.
- Fischer, John G., Waterloo, Ill., assignor to A. B. Remick, St. Louis, Mo. Pulley. No. 1,400,671; Dec. 20.
- Fischer, Joseph A., assignor to Eureka Bedding Manufacturing Company, Brooklyn, N. Y. Day-bed with adjustable folding headpiece. No. 1,394,985; Oct. 25.
- Fischer, Joseph W., Brooklyn, N. Y. Soft collar. No. 1,396,413; Nov. 8.
- Fischer, Oskar, Berlin-Wilmersdorf, Germany. Typewriting-machine. No. 1,392,135; Sept. 27; v. 290; p. 747.
- Fischer, Paul E., Scranton, Pa. Attachment for wardrobe-trunks. No. 1,373,320; Mar. 29; v. 284; p. 894.
- Fischer, Philip A., New York, N. Y. Drinking-cup. No. 1,373,182; Mar. 29; v. 284; p. 867.
- Fish, Charles S., assignor to Boutell Manufacturing Co., Rochester, N. Y. Fruit-slicer. No. 1,399,950; Dec. 13.
- Fish, David L., New Haven, Conn. Medicine-taking-time indicator. No. 1,370,956; Mar. 8; v. 284; p. 274.
- Fish, Edward. (See Novick, A., and Fish.)
- Fish, Edward R. (See Clay, Samuel B., assignor.)
- Fish, Edwards R., Phoenixville, Pa. Superheated-steam boiler. No. 1,390,771; Sept. 13; v. 290; p. 335.
- Fishback, Yates, Carrollton, Ill. Urinal. No. 1,386,696; Aug. 9; v. 289; p. 216.
- Fisher, Ada, London, England. Box for containing face-powder or the like. No. 1,383,394; July 5; v. 288; p. 28.
- Fisher, Alexander J., Rochester, England. Washing and rinsing machine. No. 1,396,364; Nov. 8.
- Fisher, Alfred, Chicago, Ill. Oil-burner system for furnaces. No. 1,385,534; July 26; v. 288; p. 677.
- Fisher, Alfred, Chicago, Ill. Steel-furnace. No. 1,389,346; Aug. 30; v. 289; p. 906.
- Fisher, Alfred, Chicago, Ill. Brass-furnace. No. 1,392,817; Oct. 4.
- Fisher, Alva J., Evanston, Ill. Spline-carrying-machine-element. No. 1,391,728; Sept. 27; v. 290; p. 665.
- Fisher, Alva J., Evanston, assignor to Hurley Machine Company, Chicago, Ill. Machine element and method and apparatus for making same. No. 1,365,029; Jan. 11; v. 282; p. 234.
- Fisher, Alva J., Evanston, assignor to Hurley Machine Company, Chicago, Ill. Washing-machine heater. No. 1,388,941; Aug. 30; v. 289; p. 825.
- Fisher, Alva J., assignor to Hurley Machine Company, Chicago, Ill. Ironing-machine. No. 1,400,808; Dec. 20.
- Fisher, Andrew L. and H. W., St. Louis, Mo. Weight-controlled measuring apparatus. No. 1,368,129; Feb. 8; v. 283; p. 301.
- Fisher, Andrew S., Altoona, Pa. Wrench. No. 1,386,325; Aug. 2; v. 289; p. 72.
- Fisher, Anna F., Hempstead, N. Y. Toy. No. 1,369,093; Feb. 22; v. 283; p. 576.
- Fisher, Arthur W., Putneyville, N. Y. Locking-link. No. 1,379,620; May 31; v. 286; p. 874.
- Fisher, Arthur W., London, England. Suction device for artificial dentures and manufacturing same. No. 1,366,644; Jan. 25; v. 282; p. 632.
- Fisher Body Corporation, The. (See Allmand, John T., assignor.)
- Fisher Body Corporation. (See Fessler, Charles, assignor.)
- Fisher Body Corporation. (See Gagnon, Alexander, assignor.)
- Fisher Body Corporation. (See Rissman, Paul, assignor.)
- Fisher Body Corporation. (See Simpson, Emory G., assignor.)
- Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Locking device. No. 1,364,548; Jan. 4; v. 282; p. 97.
- Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Savings-bank. No. 1,380,050; May 31; v. 286; p. 955.
- Fisher, Charles L. T., et al. (See O'Neill, Frank, Jr., assignor.)
- Fisher, Charles M. (See Graff, E. E., and Fisher.)
- Fisher, Charles W., Wellsville, Kans. Sanitary toilet apparatus. No. 1,376,926; May 3; v. 286; p. 104.



## Alphabetical list of patentees—Continued.

- Fisher, Edwin H., Pittsburgh, Pa., assignor to Scientific Materials Company, Pittsburgh, Pa. Gas-burner. No. 1,364,094; Jan. 4; v. 282; p. 9.
- Fisher, Albert E., Toledo, Ohio. Glass composition and making same. No. 1,394,296; Oct. 18.
- Fisher, Ernest F., Eslington, Pa. Refrigerating apparatus. No. 1,375,836; Apr. 26; v. 283; p. 608.
- Fisher, Frank M. (See Fisher, John G., assignor.)
- Fisher, Frederick E., Sudbrook Park, Md., assignor to E. K. Plumly, Philadelphia, Pa. Chuck. No. 1,387,844; Aug. 16; v. 289; p. 498.
- Fisher, Frederick J., San Francisco, Calif. Renewable cartridge-fuse. No. 1,387,000; Aug. 9; v. 289; p. 278.
- Fisher, Frederick J., San Francisco, Calif. Renewable fuse. No. 1,387,001; Aug. 9; v. 289; p. 278.
- Fisher, Frederick W. (See Robertson, W. H., and Fisher.)
- Fisher, George E., assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Pineapple-meat eradicator. No. 1,369,231; Feb. 22; v. 283; p. 603.
- Fisher, George F., Providence, R. I., assignor to The Revere Rubber Company. Rim-finishing machine. No. 1,381,177; June 14; v. 287; p. 216.
- Fisher, Harry L., Millin township, Franklin county, Ohio. Mold for rubber tires and tubes. No. 1,380,645; June 7; v. 287; p. 60.
- Fisher, Harry L., New York, assignor to S. Sternau & Co., Inc., Brooklyn, N. Y. Solid fuel and making the same. No. 1,389,638; Sept. 6; v. 290; p. 16.
- Fisher, Harvey L., assignor to The Donaldson & Fisher Company, Chicago, Ill. Driving mechanism. No. 1,394,986; Oct. 25.
- Fisher, Henry F., Los Angeles, Calif. Violin-bridge. No. 1,377,570; May 10; v. 286; p. 283.
- Fisher, Henry F., Los Angeles, Calif. Shoulder-pad for violins. No. 1,377,571; May 10; v. 286; p. 283.
- Fisher, Henry W. (See Fisher, Andrew L. and H. W.)
- Fisher, Henry W. (See Fries, C., and Fisher.)
- Fisher, James J., Junior, W. Va. Trolley-wire splice. No. 1,386,326; Aug. 2; v. 289; p. 73.
- Fisher, James J., Junior, assignor of one-half to W. L. Fisher, Tunnelton, W. Va. Expansive packing. No. 1,386,097; Aug. 2; v. 289; p. 27.
- Fisher, James F., Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company, New York, N. Y. Pump. No. 1,379,587; May 24; v. 286; p. 793.
- Fisher, John G., Fairfax county, Va., assignor of one-half to F. M. Fisher, Paducah, Ky. Circuit-controller for train-control apparatus. No. 1,369,748; Sept. 6; v. 290; p. 38.
- Fisher, John W., Blackpool, England. Variable gearing. No. 1,390,522; Sept. 13; v. 290; p. 285.
- Fisher, Justine A., New York, N. Y. Hat-protector. No. 1,397,246; Nov. 15.
- Fisher, Louis M., Clarksdale, Mo. Alarm for automobile-jacks. No. 1,387,137; Aug. 9; v. 289; p. 305.
- Fisher, Luther M., Rockymount, Va. Oil-test cock. No. 1,368,329; Feb. 15; v. 283; p. 288.
- Fisher, Merritt L. (See Loveland, J. A., and Fisher.)
- Fisher, Milan H., assignor to The Donaldson & Fisher Company, Chicago, Ill. Driving-gear for automobile-trucks. No. 1,366,316; Jan. 18; v. 282; p. 523.
- Fisher, Mose, Plain, N. Mex. Vehicle-wheel spindle. No. 1,401,900; Dec. 27.
- Fisher, Richard J. D., Philadelphia, and I. de A. Hoyt, Mount Airy, Pa. Fountain-brush. No. 1,374,294; Apr. 12; v. 285; p. 218.
- Fisher, Seguin, Johannesburg, Transvaal, South Africa. Feed device for rock-drills. No. 1,374,996; Apr. 19; v. 285; p. 416.
- Fisher, Stanley L., Chester, assignor to The Pratt Read Player Action Company, Deep River, Conn. Automatic expression device for player-pianos. No. 1,369,524; Feb. 22; v. 283; p. 659.
- Fisher, Stanley L., Chester, assignor to The Pratt Read Player Action Company, Deep River, Conn. Player-piano. No. 1,384,993; July 19; v. 288; p. 490.
- Fisher, Stanley L., Chester, Pa., assignor to The Pratt Read Player Action Company, Deep River, Conn. Player-piano. No. 1,391,376; Sept. 20; v. 290; p. 520.
- Fisher, Thomas, Madeira, Ohio. Railway-car route register and indicator. No. 1,369,232; Feb. 22; v. 283; p. 603.
- Fisher, Thomas, Kearney, N. J. Plate-lifter. No. 1,375,580; Apr. 19; v. 285; p. 527.
- Fisher, Thomas P., Somerville, Mass. Stop for revolving doors or turnstiles. No. 1,364,739; Jan. 4; v. 282; p. 133.
- Fisher, Tracy, Highland Park, Mich. Hub for demountable wheels. No. 1,359,643; Feb. 22; v. 283; p. 683.
- Fisher, Virde L., Fairplain, W. Va. Reel attachment for mowing-machines. No. 1,376,268; Apr. 26; v. 285; p. 691.
- Fisher, Walter G., Orangeville, Ontario, Canada. Tractor-wheel. No. 1,365,973; Jan. 18; v. 282; p. 457.
- Fisher, William H., Minocqua, Wis. Rotary motor. No. 1,395,267; Nov. 1.
- Fisher, William L. (See Fisher, James J., assignor.)
- Fisher, Willis H., West Paterson, N. J. Molding-apparatus. No. 1,366,373; Jan. 25; v. 282; p. 577.
- Fisk, Charles, Flushing, N. Y. Barrel-filler. No. 1,400,275; Dec. 13.
- Fisk, D. B., & Co. (See Henkel, August G., assignor.)
- Fisk, Ferris D. (See Dickerson, Horace P., assignor.)
- Fisk Rubber Company, The. (See Batchelder, Harry B., assignor.)
- Fisk Rubber Company, The. (See Marquette, Melvon A., assignor.)
- Fisk Rubber Company, The. (See Maynard, Charles E., assignor.)
- Fisk Rubber Company, The. (See Midgley, T., and Naylor, assignors.)
- Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
- Fisk Rubber Company, The. (See Midgley, Thomas, Sr., assignor.)
- Fiske, Bradley A., New York, N. Y. Ignition system for torpedoes. No. 1,379,972; May 31; v. 286; p. 940.
- Fiske & Company. (See Fiske, Jonathan P. B., assignor.)
- Fiske, Jonathan P. B., Newton, Mass., assignor to Fiske & Company, Inc. Cored channel-brick and wall construction. No. 1,377,572; May 10; v. 286; p. 284.
- Fiske, Jonathan P. B., Newton, Mass., assignor to Fiske & Company, Inc. Channel-brick. No. 1,400,498; Dec. 13.
- Fitch, Albert L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission system. No. 1,397,862; Nov. 22.
- Fitch, Benjamin F., Evanston, Ill. Retaining device for elevating-cables. No. 1,399,053; Dec. 6.
- Fitch, William H., Allentown, Pa. Continuous-heating furnace. No. 1,388,419; Aug. 23; v. 289; p. 669.
- Fite, Cephas V., Charlotte, N. C. Sawing apparatus. No. 1,395,100; Oct. 25.
- Fite, Cephas V., Charlotte, N. C. Manually-portable sawing-machine. No. 1,395,101; Oct. 25.
- Fite, George M., Newhall, W. Va. Car. No. 1,367,365; Feb. 1; v. 283; p. 96.
- Fithian, Frank L., Haddonfield, N. J. Toy. No. 1,368,917; Feb. 15; v. 283; p. 503.
- Fitts, James L., Merchantville, assignor to Warren Webster & Company, Camden, N. J. Volume-regulating valve. No. 1,401,468; Dec. 27.
- Fitts, James L., and W. F. Bilyeu, Merchantville and Riverton, assignors to Warren Webster & Company, Camden, N. J. Vent for gravity-flow meter and heater apparatus. No. 1,371,554; Mar. 15; v. 284; p. 454.
- Fitts, Walter H., assignor to The Foxboro Company, Foxboro, Mass. Thermometer. No. 1,394,484; Oct. 18.
- Fitz-Empire Double Pivot Last Company. (See Prindle, Edwin J., assignor.)
- Fitz-Empire Double Pivot Last Company. (See Schelter, George G., assignor.)
- Fitz-Empire Double Pivot Last Company. (See Schelter, John C., assignor.)
- Fitzgerald, Fred. (See Jewett, C. E., and Fitzgerald.)
- Fitzgerald, Grover M., and H. C. Lockey, Stockton, Calif. Double drum-pedal. No. 1,369,233; Feb. 22; v. 283; p. 603.
- Fitzgerald, James K., Republic, Kans. Game of cards. No. 1,368,130; Feb. 8; v. 283; p. 301.
- Fitzgerald, Jeremiah C., Kilbourn, Wis. Shaft-hanger. No. 1,387,044; Aug. 9; v. 289; p. 287.
- Fitzgerald, John B., New York, N. Y. Throat-lamp and tongue-depressor. No. 1,364,873; Jan. 11; v. 282; p. 203.
- Fitzgerald, John J., Los Angeles, Calif. Gage device. No. 1,397,275; Nov. 15.
- Fitzgerald, John L., Emporia, Kans. Auxiliary back-rest for automobiles. No. 1,377,823; May 10; v. 286; p. 333.
- Fitz Gerald, John M., River Forest, Ill. Monorail-truck. No. 1,370,526; Mar. 8; v. 284; p. 191.
- FitzGerald, John W., Detroit, Mich. Regulator for electric-lighting systems on motor-vehicles. No. 1,373,806; Apr. 5; v. 285; p. 83.
- Fitzgerald, John W., Detroit, Mich. Storage-battery-testing instrument. No. 1,397,247; Nov. 15.
- Fitzgerald, Leo F., Oilfields, Calif. Shock-absorber. No. 1,383,094; June 28; v. 287; p. 691.
- Fitz Gerald, Ray H., Pittsburgh, Pa. Dispensing and displaying carton. No. 1,378,533; May 17; v. 286; p. 522.
- Fitz Gerald, Ray H., Pittsburgh, Pa. Dispensing and displaying carton. No. 1,378,534; May 17; v. 286; p. 521.
- Fitz Gerald, Ray H., Pittsburgh, Pa. Display-box. No. 1,378,535; May 17; v. 286; p. 521.
- Fitz Gibbon, Edward L., Brooklyn, N. Y. Motor-vehicle. No. 1,394,076; Oct. 18.
- Fitzpatrick, Clare B., Adams Park, Ga. Spike. No. 1,369,798; Mar. 1; v. 284; p. 8.
- Fitzpatrick, Edmund D., et al. (See Dunn, Edmund L., assignor.)
- Fitzpatrick, George A. (See Fitzpatrick, John A. and G. A.)
- Fitzpatrick, John A. and G. A., Santa Ana, Calif. Drilling wells. No. 1,394,192; Oct. 18.
- Fitzpatrick, John B., New York, N. Y. Hatpin. No. 1,400,147; Dec. 13.
- Fitzpatrick, Matthew J. M., Lagos, Nigeria, West Africa. Steam-engine. No. 1,373,183; Mar. 29; v. 284; p. 867.
- Fitzsimmons, Bernard J. (See Bauer, P., and Fitzsimmons.)
- Fitz Simmons, Edward S. (See Flannery, J. R., and Fitz Simmons.)
- Fitzsimmons, Osborne, Chicago, Ill. Bottle carrier and support. No. 1,391,537; Sept. 20; v. 290; p. 553.
- Fix, Frank, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive. No. 1,283,898; June 28; v. 287; p. 654.



*Alphabetical list of patentees—Continued.*

- Fix, Frank C., Cincinnati, Ohio, assignor to Armstrong Cork Company, Pittsburgh, Pa. Insole and making the same. No. 1,365,390; Jan. 11; v. 282; p. 303.
- Fix, Frank C., Cincinnati, Ohio, assignor to Armstrong Cork Company, Pittsburgh, Pa. Insole-trimming machine. No. 1,367,870; Feb. 8; v. 283; p. 252.
- Fix, Frank C., Cincinnati, Ohio, assignor to Armstrong Cork Company, Pittsburgh, Pa. Insole-lip turner. No. 1,380,098; May 31; v. 286; p. 964.
- Fjellman, Bengt W., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Bushing for belt-pulleys and the like. No. 1,370,639; Mar. 8; v. 284; p. 214.
- Fjellman, Bengt W., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Method of and means for manufacturing conical rollers of exact dimensions. No. 1,380,370; June 7; v. 287; p. 9.
- Fjellman, Bengt W., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Bearing for loose pulleys. No. 1,381,178; June 14; v. 287; p. 216.
- Flack, Cyrus I., Fort Wayne, Ind. Steering-wheel. No. 1,364,740; Jan. 4; v. 282; p. 133.
- Flack, Frederick W., *et al.* (See Flack, Sidney, assignor.)
- Flack, Paul M., Ogdensburg, N. Y. Automobile direction-indicator. No. 1,369,413; Feb. 22; v. 283; p. 637.
- Flack, Sidney, assignor of one-fourth to F. W. Flack, one-fourth to F. Vitron, and one-fourth to J. Vitron, Erie, Pa. Sanitary cover for transmitter-mouthpieces. No. 1,370,104; Mar. 1; v. 284; p. 66.
- Flagge, Philipp F., Green Bay Wis. Illuminated crucifix. No. 1,391,945; Sept. 27; v. 290; p. 709.
- Flagstad, Cornell, Minneapolis, Minn. Box-cover and fastening for same. No. 1,371,883; Mar. 15; v. 284; p. 515.
- Flaherty, Edward B., Denver, Colo. Hatpin. No. 1,394,297; Oct. 18.
- Flaherty, James E., St. Louis, Mo. Churn-dasher. No. 1,374,843; Apr. 12; v. 285; p. 334.
- Flaherty, John F., assignor to The Bock Bearing Company, Toledo, Ohio. Roller-bearing. No. 1,389,040; Aug. 30; v. 289; p. 845.
- Flaherty, Timothy J., La Salle, Ill. Automatic clutch-release. No. 1,378,777; May 17; v. 286; p. 568.
- Flam, John, U. S. Army, assignor to Secretary of War of the United States of America. Percussion-fuse. No. 1,385,610; July 26; v. 288; p. 693.
- Flammang, John, University City, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,378,670; May 17; v. 286; p. 547.
- Flammang, John, University City, assignor to O. G. Stark, St. Louis, Mo. Piston. No. 1,378,671; May 17; v. 286; p. 547.
- Flanagan, James A., Toronto, Ontario, Canada. Sewing-machine. No. 1,387,138; Aug. 9; v. 289; p. 305.
- Flanagan, James A., Toronto, Ontario, Canada. Tension for sewing-machines. No. 1,387,139; Aug. 9; v. 289; p. 305.
- Flanagan, James A., Toronto, Ontario, Canada. Stitch controls for sewing-machines. No. 1,387,140; Aug. 9; v. 289; p. 305.
- Flanagan, James A., Toronto, Ontario, Canada. Bobbin-winding mechanism for sewing-machines. No. 1,387,141; Aug. 9; v. 289; p. 305.
- Flanagan, James A., Toronto, Ontario, Canada. Combined presser-foot and work-guide for sewing-machines. No. 1,387,142; Aug. 9; v. 289; p. 306.
- Flanagan, James A., Toronto, Ontario, Canada. Sewing-machine. No. 1,387,143; Aug. 9; v. 289; p. 306.
- Flanagan, James A., Toronto, Ontario, Canada. Stitch-forming mechanism for sewing-machines. No. 1,387,144; Aug. 9; v. 289; p. 306.
- Flanagan, James A., Toronto, Ontario, Canada. Feeding mechanism for sewing-machines. No. 1,387,145; Aug. 9; v. 289; p. 306.
- Flanagan, James A., Toronto, Ontario, Canada. Bobbin-winder for sewing-machines. No. 1,388,180; Aug. 23; v. 289; p. 619.
- Flanagan, Robert N., Charlottesville, Va. Artificial limb. No. 1,370,299; Mar. 1; v. 284; p. 103.
- Flanders, Ida Y., administratrix. (See Flanders, Louis H.)
- Flanders, Louis H., deceased. Jenkintown, Pa.; I. Y. Flanders, administratrix, assignor to The Electric Storage Battery Company, Philadelphia, Pa. Filling apparatus for storage batteries and the like. No. 1,392,632; Oct. 4.
- Flanders, Ralph E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Work-rest attachment for lathes. No. 1,368,252; Feb. 15; v. 283; p. 373.
- Flanders, Ralph E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Metal-working machine. No. 1,368,790; Feb. 15; v. 283; p. 478.
- Flanders, Warren B., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Co. Apparatus for conserving motive fluid. No. 1,399,758; Dec. 13.
- Flannery Bolt Company. (See Dodds, E. I., and Landgraf, assignors.)
- Flannery Bolt Company. (See Dodds, E. I., and Stafford, assignors.)
- Flannery Bolt Company. (See Flannery, J. R., and Dodds, assignors.)
- Flannery Bolt Company. (See Flannery, John R., assignor.)
- Flannery Bolt Co. (See Landgraf, Frederick K., assignor.)
- Flannery Bolt Company. (See Menpie, Robert S., assignor.)
- Flannery Bolt Company. (See Stafford, B. E. D., and Dodds, assignors.)
- Flannery Bolt Company. (See Stafford, Benjamin E. D., assignor.)
- Flannery, Catherine, Hornell, N. Y. Bottle-holder. No. 1,381,071; June 7; v. 287; p. 144.
- Flannery, J. C., *et al.* (See Duncan, John N., assignor.)
- Flannery, John R. (See Dodds, E. I., and Flannery.)
- Flannery, John R., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt installation for steam-boilers. No. 1,364,097; Jan. 4; v. 282; p. 9.
- Flannery, John R., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,364,098; Jan. 4; v. 282; p. 10.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Manufacture of composite bars. No. 1,364,095; Jan. 4; v. 282; p. 9.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure for boilers. No. 1,364,099; Jan. 4; v. 282; p. 10.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt for boilers. No. 1,366,725; Jan. 25; v. 282; p. 648.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staying of boiler-sheets. No. 1,373,064; Mar. 29; v. 284; p. 842.
- Flannery, John R., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,394,542; Oct. 25.
- Flannery, John R., and E. I. Dodds, assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,394,543; Oct. 25.
- Flannery, John R., Pittsburgh, Pa., and E. I. Dodds, Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,400,535; Dec. 20.
- Flannery, John R., Pittsburgh, Pa., and E. I. Dodds, Central Valley, N. Y., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,400,536; Dec. 20.
- Flannery, John R., Pittsburgh, Pa., and E. I. Dodds, Central Valley, N. Y., assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,401,683; Dec. 27.
- Flannery, John R., Pittsburgh, Pa., and E. I. Dodds, Central Valley, N. Y., assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,401,684; Dec. 27.
- Flannery, John R., and E. S. Fitz Simmons, assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,400,736; Dec. 20.
- Flannery, John R., E. I. Dodds, and C. Hyland, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt for boilers. No. 1,364,096; Jan. 4; v. 282; p. 9.
- Flannery, John R., B. E. D. Stafford, and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,364,100; Jan. 4; v. 282; p. 10.
- Flannigan, Andrew W., Milwaukee, Wis. Sifter. No. 1,384,441; July 12; v. 288; p. 295.
- Flatite Limited. (See Balslie, John G., assignor.)
- Flatow, John L., Washington, D. C. Game. No. 1,374,844; Apr. 12; v. 285; p. 324.
- Flavell, Denis A., Jersey City, N. J. Work-supporting means for wire stitching or stapling machines. No. 1,396,950; Nov. 15.
- Fleck, Albert H., Lakewood, Ohio. Bobbin-holder. No. 1,397,927; Nov. 22.
- Fleckenstein, Adelaide, guardian. (See Fleckenstein, J.)
- Fleckenstein, Jackson, Ionia, Mich.; A. Fleckenstein, guardian, assignor to Fleckenstein Visible Gasometer Company, Chicago, Ill. Measuring and dispensing apparatus. No. 1,367,366; Feb. 1; v. 283; p. 96.
- Fleckenstein Visible Gasometer Company. (See Fleckenstein, Jackson, assignor.)
- Fleckner, Luther M., San Francisco, Calif. Fruit-picking net. No. 1,366,563; Jan. 25; v. 282; p. 616.
- Fleckner, Luther M., San Francisco, Calif. Tree-prop. No. 1,376,686; May 3; v. 286; p. 57.
- Fleener, Austin E., Columbus, Ohio. Pressure-regulator. No. 1,399,013; Dec. 6.
- Fleer, Eugene A. (See Wiedenhoef, Arthur E., assignor.)
- Fleet, James, Montreal, Quebec, Canada. Puzzle. No. 1,384,057; July 12; v. 288; p. 215.
- Fleet, Merton W., National, Wash. Weed-cutter. No. 1,391,823; Sept. 27; v. 290; p. 683.
- Fleischer, Paul W., New York, N. Y., assignor to American Can Company. Can closing and marking machine. No. 1,366,564; Jan. 25; v. 282; p. 616.
- Fleischer, Paul W., New York, N. Y., assignor to American Can Company. Can-closing machine. No. 1,370,804; Mar. 8; v. 284; p. 245.
- Fleischer, Paul W., West Hoboken, N. J., assignor to American Can Company, New York, N. Y. Can-feeding mechanism. No. 1,375,371; Apr. 19; v. 285; p. 488.



*Alphabetical list of patentees—Continued.*

- Fleischer, Paul W., Weehawken Heights, N. J., assignor to American Can Company, New York, N. Y. Flange-curling machine. No. 1,389,639; Sept. 6; v. 290; p. 16.
- Fleischer, W. L., & Co. (See Connelly, Douglas L., assignor.)
- Fleming, Ambrose, Alexandria, Va. Pencil and pen holder. No. 1,382,071; June 21; v. 287; p. 443.
- Fleming, Ambrose, Alexandria, Va. Attachment to screw-led pencils. No. 1,396,710; Nov. 8.
- Fleming, Edward R., Baltimore, Md. Envelop-opener. No. 1,400,809; Dec. 20.
- Fleming, Frank E. (See Blackburn, A. H., and Fleming.)
- Fleming, Frank L., assignor to Phillips Mine and Mill Supply Co., Pittsburgh, Pa. Means for controlling railway-cars at loading-points. No. 1,386,560; Aug. 2; v. 289; p. 116.
- Fleming, George T., La Grande, Oreg. Safety-hook. No. 1,389,582; Sept. 6; v. 290; p. 5.
- Fleming, Harry F., Lorenzo, Nebr. Twine-holder. No. 1,364,987; Jan. 11; v. 282; p. 225.
- Fleming, James K., Scranton, Pa. Journal box and mounting. No. 1,395,487; Nov. 1.
- Fleming, John M., Edmonton, Alberta, Canada. Cultivator. No. 1,399,202; Dec. 6.
- Fleming, Melvin J., Indianapolis, Ind. Laundry apparatus. No. 1,394,159; Oct. 18.
- Fleming, Paul E., Chicago, Ill. Card-spreading device. No. 1,380,371; June 7; v. 287; p. 3.
- Fleming, Richard, Company, The. (See Fleming, Richard, assignor.)
- Fleming, Richard, Westfield, N. J., assignor to The Richard Fleming Company. Apparatus for condensing and treating distillates. No. 1,394,987; Oct. 25.
- Fleming, Robert G. (See Knapp, H. G. and R. I., and Fleming.)
- Fleming, Sydney J., Vancouver, British Columbia, Canada. Clothesline-pulling clutch. No. 1,388,455; Aug. 23; v. 289; p. 674.
- Fleming, William E., Los Angeles, Calif. Fastener for blankets, quilts, &c., for baby-cribs. No. 1,390,608; Sept. 13; v. 290; p. 303.
- Flemming, Charles F., assignor to The Miller Rubber Company, Akron, Ohio. Manufacturing of sponge-rubber playing-balls. No. 1,370,805; Mar. 8; v. 284; p. 245.
- Fleutje, Ernst, Cambridge, Mass. Shock-absorber. No. 1,365,030; Jan. 11; v. 282; p. 234.
- Fletcher, Charles F., Farmington, W. Va. Wrench. No. 1,392,318; Oct. 4.
- Fletcher, Charlie F., Farmington, W. Va. Dirigible headlight for vehicles. No. 1,392,488; Oct. 4.
- Fletcher, Ernest E., Chicago, Ill. Plaster-board support. No. 1,367,688; Feb. 8; v. 283; p. 217.
- Fletcher, Gilbert F., Bangor, Me. Fluid-operated banker. No. 1,364,266; Jan. 4; v. 282; p. 43.
- Fletcher, Harold W., Houston, Tex. Roller boring-drill. No. 1,388,456; Aug. 23; v. 289; p. 677.
- Fletcher, Harold W., assignor to Hughes Tool Company, Houston, Tex. Making bearings. No. 1,399,856; Dec. 13.
- Fletcher, Harvey, New York, N. Y., and F. J. Strassner, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing apparatus. No. 1,386,697; Aug. 9; v. 289; p. 216.
- Fletcher, Henry O., Bridgeport, Conn. Searchlight apparatus. No. 1,364,267; Jan. 4; v. 282; p. 43.
- Fletcher, Henry O., Bridgeport, Conn. Searchlight apparatus. No. 1,364,268; Jan. 4; v. 282; p. 43.
- Fletcher, J. H., and E. L. Meacham, Springfield, Mass. Adjustable-front rifle-sight. No. 1,365,236; Jan. 11; v. 282; p. 273.
- Fletcher, John R., Dayton, Ohio. Bed-warmer. No. 1,383,197; June 28; v. 287; p. 711.
- Fletcher, Joseph, Bellwood, assignor of one-half to James A. Sackley Company, Chicago, Ill. Steam-shovel. No. 1,380,051; May 31; v. 286; p. 955.
- Fletcher, Joseph H., assignor to Perfection Auto Window Company, Los Angeles, Calif. Window for fabric walls. No. 1,401,528; Dec. 27.
- Fletcher, Theodore, San Antonio, assignor of one-half to J. M. Nix, Bexar county, Tex. Phonograph-needle. No. 1,391,884; Sept. 27; v. 290; p. 696.
- Fletcher, Willoughby R., Brinkman, Okla. Baling-press. No. 1,385,439; July 26; v. 288; p. 657.
- Flett, Lawrence H. (See Derick, C. G., Ralph, and Flett.)
- Fleure, George J., Brooklyn, N. Y. Foot-operated pump for pneumatic tires. No. 1,397,416; Nov. 15.
- Fleury, Joseph R., Jamestown, Kans. Auto-towing device. No. 1,368,619; Feb. 15; v. 283; p. 445.
- Fleury, Louis A., Indianapolis, Ind. Pneumatic jack. No. 1,374,295; Apr. 12; v. 285; p. 218.
- Fleuss, Henry A., Thatcham, assignor to The Pulsometer Engineering Company, Limited, Reading, England. Pump for exhausting air and gases. No. 1,382,184; June 21; v. 287; p. 463.
- Flexible Couplings Company. (See Thomas, George H., assignor.)
- Flexible Steel Lacing Company. (See Purple, George E., assignor.)
- Fli-Bac Screen Corporation. (See Chapin, John J., assignor.)
- Flick, James R., Vineland, N. J. Gas-burner attachment. No. 1,395,404; Nov. 1.
- Flick, Lorenz, assignor, by mesne assignments, to Sayles Finishing Plants Inc., Saylesville, R. I. Roll support. No. 1,379,588; May 24; v. 286; p. 793.
- Flidner, Helen M., Cleveland, Ohio. Educational furniture toy. No. 1,376,087; Apr. 26; v. 289; p. 657.
- Fliegel, Sophie, Brooklyn, N. Y. Hand embroidery-machine. No. 1,364,498; Jan. 4; v. 282; p. 88.
- Fligge, John C., Woodlake, Minn. Clutch-pedal lock. No. 1,364,988; Jan. 11; v. 282; p. 226.
- Flindell, Edwin F. (See Darby, John, assignor.)
- Flinn, Frederick B. (See Towne, R. S., and Flinn.)
- Flinn, Roland L., Alberton, Mont. Alarm for air-brake systems. No. 1,387,002; Aug. 9; v. 289; p. 278.
- Flinner, John, Leavenworth, Kans. Amusement device. No. 1,388,420; Aug. 23; v. 289; p. 669.
- Flint, Amos H. (See Brindle, R. G., and Flint.)
- Flint, Charles, Menominee, Mich. Kindling-burner. No. 1,389,427; Aug. 30; v. 289; p. 922.
- Flint, George C., Chicago, Ill. Humidifier for printing-machines or the like. No. 1,374,726; Apr. 12; v. 285; p. 302.
- Flint, James A., Denver, Colo., assignor to the Government of the United States. Torpedo. No. 1,389,190; Aug. 30; v. 289; p. 875.
- Flint, Opha H., Clarksburg, W. Va., assignor to The Owens Bottle Company, Toledo, Ohio. Mold-centering device. No. 1,399,203; Dec. 6.
- Flintermann, Gerhard G. C., Detroit, Mich., assignor to Detroit Pressed Steel Company, Wilmington, Del. Demountable-wheel support. No. 1,397,626; Nov. 22.
- Flintkote Company, The. (See Clapp, Albert L., assignor.)
- Flintkote Company, The. (See Kiracofe, Otterbein, assignor.)
- Flintkote Company, The. (See Overbury, F. C., and Rahr, assignors.)
- Flintkote Company, The. (See Overbury, Frederick C., assignor.)
- Flintoff, Thomas, Claremont, Perth, Western Australia. Artificial tooth. No. 1,390,353; Sept. 13; v. 290; p. 251.
- Flitcraft, John M., Elkhart, Iowa. Jar-fountain waterer. No. 1,397,627; Nov. 22.
- Flitcraft, John M., Elkhart, Iowa. Clothes-tongs. No. 1,397,628; Nov. 22.
- Flitcroft, James E., assignor to C. E. Schanck, Asbury Park, N. J. Tank. No. 1,386,462; Aug. 2; v. 289; p. 97.
- Flisz, George, Livermore, Pa. Automobile-frame. No. 1,372,497; Mar. 22; v. 284; p. 690.
- Floeter, Frederick S., Saginaw, Mich. Clutch. No. 1,380,789; June 7; v. 287; p. 89.
- Flood, George A., Swaffham, and W. H. Flood, Sheffield, England. Apparatus for quenching coke. No. 1,365,974; Jan. 18; v. 282; p. 457.
- Flood, Henry L., Ponca City, Okla. Spark-plug. No. 1,400,276; Dec. 13.
- Flood, John R., Everett, Wash. Automatic swivel-trailer coupling. No. 1,384,944; July 19; v. 288; p. 479.
- Flood, John R., assignor of one-half to T. L. Moore and W. Sheller, Everett, Wash. Hose-reel. No. 1,380,549; June 7; v. 287; p. 43.
- Flood, Joseph J., East Orange, N. J. Binding-post for storage batteries. No. 1,375,654; Apr. 19; v. 285; p. 542.
- Flood Manufacturing Company. (See Lang, Albert R., assignor.)
- Flood, S. D. (See Snyder, Frederick T., assignor.)
- Flood, Samuel D., Kenilworth, Ill. Method of and apparatus for baking. No. 1,394,674; Oct. 25.
- Flood, William H. (See Flood, George A. and W. H.)
- Flora, Ellsworth E., Chicago, Ill., assignor to The National Binding Machine Company, New York, N. Y. Sealing-tool. No. 1,386,098; Aug. 2; v. 289; p. 27.
- Florandin, Charles H. (See Hall, William A., assignor.)
- Florence, Frank J., Pensacola, Fla. Store. No. 1,400,948; Dec. 20.
- Florence, Louie. (See Koster, William J., assignor.)
- Florence, Wilfrid N., Middlebury, Vt. Traction-wheel. No. 1,393,210; Oct. 11.
- Florendine, James. (See Barnett, W., and Florendine.)
- Florskul, Gabriel, Toronto, Ontario, Canada. Collapsible chair. No. 1,373,959; Apr. 5; v. 285; p. 113.
- Florick, Albert E., New York, N. Y. Machine-gun. No. 1,401,768; Dec. 27.
- Florida y Ortiz, Abelardo. (See Steegers y Torres, F., and Florida y Ortiz.)
- Floriot, Edmond C., and G. F. Cody, New York, N. Y. Electrical heater. No. 1,370,527; Mar. 8; v. 284; p. 191.
- Florkey, Clayton M., Kokomo, Ind. Vest-supporter. No. 1,384,693; July 12; v. 288; p. 348.
- Flory, Ernest M., Harrisonburg, Va. Fuel-saver for engines. No. 1,390,597; Sept. 13; v. 290; p. 361.
- Flour City Plow Company. (See Hartsough, Ralph B., assignor.)
- Flournoy, Robert, Seven Oaks, Tex. Link gear. No. 1,375,123; July 19; v. 288; p. 518.
- Flowers, Alan E., Buffalo, N. Y., assignor to National Aniline & Chemical Company, Incorporated. Combined scraper and agitator. No. 1,366,777; Jan. 25; v. 282; p. 659.
- Flowers, Edward B. (See Fennell, J. B., and Flowers.)
- Flowers, Mamie H. (See Casey, Marion R., assignor.)
- Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Truck side frame. No. 1,364,491; Jan. 4; v. 282; p. 87.



*Alphabetical list of patentees—Continued.*

- Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Truck side frame. No. 1,378,848; May 24; v. 286; p. 654.
- Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Side-frame construction. No. 1,378,849; May 24; v. 286; p. 654.
- Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Side frame. No. 1,379,752; May 31; v. 286; p. 898.
- Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Side-frame arrangement. No. 1,381,113; June 14; v. 287; p. 204.
- Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Connection between side frames and tie-bars. No. 1,384,440; July 26; v. 288; p. 657.
- Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Side frame and tie-bar connection. No. 1,390,434; Sept. 13; v. 290; p. 267.
- Floyd, George G. and W. S. Trowbridge, assignors to American Steel Foundries, Chicago, Ill. Means for connecting truck side frames and journal-boxes. No. 1,364,492; Jan. 4; v. 282; p. 87.
- Floyd Smith Aerial Equipment Company. (See Smith, Floyd, assignor.)
- Floyd Smith Aerial Equipment Company. (See Summers, Otto, assignor.)
- Floyd-Wells Co., The. (See Carter, Charles D., assignor.)
- Fluck, George. (See Bratt, C. E., and Fluck.)
- Flude, Daniel J., Essendon, assignor of one-half to H. M. Fetherston and F. W. Schellack, Melbourne, Victoria, Australia. Construction of saddletrees. No. 1,387,925; Aug. 16; v. 289; p. 513.
- Flugekvam, Almer R., Fairdale, N. D. Automatic clutch-release. No. 1,372,413; Mar. 22; v. 284; p. 674.
- Fuhr, Philip H., Nyack, N. Y. Planking-clamp. No. 1,395,566; Nov. 1.
- Fluor, John S., Santa Ana, Calif. Apparatus and method of constructing walls. No. 1,368,131; Feb. 8; v. 283; p. 301.
- Fly Escape Screen Company. (See Mittelstaedt, George W., assignor.)
- Flynn, Charles E., De Beque, Colo. Toy moving-picture machine. No. 1,383,095; June 28; v. 287; p. 691.
- Flynn, Cornelius O., Duluth, Minn. Navigable-vessel lock. No. 1,381,407; June 14; v. 287; p. 258.
- Flynn, Edward J., Parkersburg, W. Va., assignor to Standard Oil Company, (Inc. in N. J.) Outage-cage. No. 1,378,536; May 17; v. 286; p. 521.
- Flynn, Edward P., assignor to Eastman Kodak Company, Rochester, N. Y. Reel of sheet material. No. 1,377,154; May 3; v. 286; p. 147.
- Flynn, John, assignor to The Williams Foundry & Machine Co., Akron, Ohio. Apparatus for repairing pneumatic tires. No. 1,371,779; Mar. 15; v. 284; p. 496.
- Flynn, John H., Jr., assignor to The Eureka Tackle Block Company, Cincinnati, Ohio. Integral hook and shackle for pulley-blocks. No. 1,365,677; Jan. 18; v. 282; p. 398.
- Flynn, John H., Jr., assignor to The Eureka Tackle Block Company, Cincinnati, Ohio. Pulley-block. No. 1,379,255; May 24; v. 286; p. 730.
- Flynn, John K., Superior, Wis. Stump-puller. No. 1,394,544; Oct. 25.
- Flynn, Michael H., assignor to The M. S. Little Manufacturing Company, Hartford, Conn. Flushing-valve. No. 1,368,208; Feb. 8; v. 283; p. 316.
- Flynn, Mortimer B. (See Pottinger, R. L., Flynn, and Price.)
- Flynn, Samuel J., Portsmouth, Va. Armored tire. No. 1,401,061; Dec. 20.
- Foamite Firefoam Company. (See Acker, Harold I., assignor.)
- Foamite Firefoam Company. (See Erwin, O. R., and Glos, assignors.)
- Foamite Firefoam Company. (See Patterson, D. W., and Epps, assignors.)
- Foans, Andrew B., New York, N. Y. Toy vehicle. No. 1,367,525; Feb. 1; v. 283; p. 128.
- Foans, Andrew B., New York, N. Y. Wheel toy. No. 1,382,967; June 28; v. 287; p. 667.
- Focke, Georg G., Dresden-Blasewitz, Germany. Machine for making artificial leaves. No. 1,401,062; Dec. 20.
- Fockler, Blair S. (See Riley, J., and Fockler.)
- Focks, Fred A., Wichita, Kans. Well-drilling machine. No. 1,371,884; Mar. 15; v. 284; p. 516.
- Foedisch, Charles O. and R. J., Chicago, Ill. Door-stop. No. 1,394,889; Oct. 25.
- Foedisch, Roy J. (See Foedisch, Charles O. and R. J.)
- Foell, Walter C., Waterbury, Conn. Cap-closure. No. 1,391,538; Sept. 20; v. 290; p. 554.
- Fogal, John E. W., and C. L. Fulghum, Quincy, Ill. Device for operating freight-elevator hatch-doors. No. 1,378,017; May 17; v. 286; p. 422.
- Fogarty, Orville A., Rigaud, Quebec, Canada. Ingot-mold. No. 1,377,962; May 10; v. 286; p. 360.
- Fogarty Patent Interchangeable Harvester Corporation Limited. (See De Brandt, William F., assignor.)
- Fogde, Gustav, Hoquiam, Wash. Power-hammer. No. 1,394,722; Oct. 25.
- Fogde, Gustav, Hoquiam, Wash. Saw. No. 1,401,529; Dec. 27.
- Fogde, Mathias, and L. P. Southwick, Richmond, Va., assignors to The American Tobacco Company, New York, N. Y. Stamping-machine. No. 1,364,741; Jan. 4; v. 282; p. 134.
- Fogde, Mathias, Richmond, Va. Gear-cutting attachment for milling-machines. No. 1,377,330; May 10; v. 286; p. 238.
- Fogde, Mathias, and L. P. Southwick, Richmond, Va., assignors, by mesne assignments, to Stokes & Smith Company, Philadelphia, Pa. Charge forming and positioning apparatus. No. 1,401,687; Dec. 27.
- Fogde, Mathias, and L. P. Southwick, Richmond, Va., assignors, by mesne assignments, to Stokes & Smith Company, Philadelphia, Pa. Stamping-machine. (Re-issue.) No. 15,254; Dec. 27.
- Fogelquist, Alexander E., assignor to Northwestern Bakers Supply Co., Minneapolis, Minn. Flexible door. No. 1,396,414; Nov. 8.
- Fogle, David H., New Brookland, S. C. Yarn-tensioning device for loom-shuttles. No. 1,386,773; Aug. 9; v. 289; p. 232.
- Fogwell, Harrison H., and John M. Morris, Los Angeles, Calif. Thermostat. No. 1,398,635; Nov. 29.
- Fokken, George W., and A. Armbruster, Detroit, Mich. Attachment for motors. No. 1,398,095; Nov. 22.
- Fokker, Anthony H. G., Amsterdam, Netherlands. Folding or jointing aeroplane-wing for transportation or storage. No. 1,388,457; Aug. 23; v. 289; p. 677.
- Fokker, Anthony H. G., Amsterdam, Netherlands. Rotatable armor-plate for the protection of the coolers of flying-machines. No. 1,389,558; Aug. 30; v. 289; p. 948.
- Fokker, Anthony H. G., Amsterdam, Netherlands. Joint for aeroplane-wings. No. 1,396,176; Nov. 8.
- Fokker, Anthony H. G., Amsterdam, Netherlands. Joint for aeroplane-wings. No. 1,396,177; Nov. 8.
- Folant, William S., Stoneham, Mass., assignor to Standard Oil Company of New York, New York, N. Y. Liquid-dispensing apparatus. No. 1,395,405; Nov. 1.
- Folberth, William M., Cleveland, Ohio. Windshield-cleaner. No. 1,365,391; Jan. 11; v. 282; p. 303.
- Folberth, William M., Cleveland, Ohio. Actuating device for windshield-cleaners. No. 1,387,598; Aug. 16; v. 289; p. 448.
- Folberth, William M., Cleveland, Ohio. Bracket. No. 1,394,988; Oct. 25.
- Foley, Earl H., Seattle, Wash. Sound-transmitting apparatus. No. 1,396,178; Nov. 8.
- Foley, John B., Milwaukee, Wis. Door bolt and lock. No. 1,368,711; Feb. 15; v. 283; p. 463.
- Foley, Mahlon S. (See Graham, J. H., and Foley.)
- Foley, Patrick A., Milton, Mass. Lined-pipe-flange-forming machine. No. 1,396,179; Nov. 8.
- Foley, Thomas R. (See Read, William M., assignor.)
- Folger, Harry S., Chicago, Ill. Hand-stamp. No. 1,366,374; Jan. 25; v. 282; p. 577.
- Folgman, Emanuel, Brooklyn, N. Y. Clean-out for burners. No. 1,379,544; May 24; v. 286; p. 785.
- Folk, Joseph. (See Luschka, A. R., and Folk.)
- Folkush, Martin, Milwaukee, Wis. Noise-maker. No. 1,374,644; Apr. 12; v. 285; p. 286.
- Follick, George W., Buffalo, N. Y. Combination-lock. No. 1,375,044; Apr. 19; v. 285; p. 426.
- Follinger, Herbert C., Chicago, Ill., assignor to Chain Belt Company, Milwaukee, Wis. Cooling-tank. No. 1,384,311; July 12; v. 288; p. 267.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Loading device for cut films. No. 1,365,975; Jan. 18; v. 282; p. 457.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-printing apparatus. No. 1,378,101; May 17; v. 286; p. 428.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic exposing apparatus. No. 1,383,395; July 5; v. 288; p. 29.
- Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Aviator's camera. No. 1,400,277; Dec. 13.
- Folsetter, Honeyman B., Vancouver, British Columbia, Canada. Axle-lubricator. No. 1,373,126; Mar. 29; v. 284; p. 855.
- Folsom, Herbert A., Providence, R. I. Solvent for dye-stuffs. No. 1,379,175; May 24; v. 286; p. 715.
- Foltz, Irving J., Seattle, Wash. Regulator. No. 1,393,615; Oct. 11.
- Foltz, Le Roy S., Fort Collins, Colo. Burglar and fire alarm. No. 1,373,495; Apr. 5; v. 285; p. 23.
- Folwell, Philip C., Vancouver, British Columbia, Canada. Umbrella. No. 1,387,146; Aug. 9; v. 289; p. 306.
- Fonda, Troy J., Oconto, Nebr. Inside pipe-cutter. No. 1,379,545; May 24; v. 286; p. 785.
- Fondren, Walter W., Houston, Tex. Packer for wells. No. 1,382,770; June 28; v. 287; p. 630.
- Fons, Felipe N., C. del Carmen, E. de Camp, Mexico. Coconut-husker. No. 1,367,809; Feb. 8; v. 283; p. 240.
- Fontaine, Alfred, Bridgeport, and C. Vincent, New Haven, Conn. Egg-poacher. No. 1,390,772; Sept. 13; v. 290; p. 335.
- Fontaine, Joseph D., North Attleboro, Mass. Cuff-link. No. 1,375,581; Apr. 19; v. 285; p. 528.
- Fontaine, Robert A., Martinsville, Va. Dump-truck. No. 1,396,738; Nov. 15.
- Fontneau, Earle N., Attleboro, Mass. Sump-collar holder. No. 1,376,372; Apr. 26; v. 285; p. 711.



*Alphabetical list of patentees—Continued.*

- Fonville, Zollicoffer, Raleigh, N. C. Clothespin. No. 1,367,181; Feb. 1; v. 283; p. 59.
- Fooks, Nelson H., Preston, Md. Heat-treating bodies. No. 1,366,778; Jan. 25; v. 282; p. 659.
- Footre, William E., Nogales, Ariz. Framing-tool. No. 1,394,298; Oct. 18.
- Footte-Burt Company, The. (See Randles, George E., assignor.)
- Footte, Charles E., assignor to The Footte Company, Nunda, N. Y. Power-operated discharge mechanism for concrete-mixers. No. 1,394,160; Oct. 18.
- Footte, Charles E., assignor to The Footte Company, Nunda, N. Y. Power-operated discharge mechanism for concrete-mixers. No. 1,394,161; Oct. 18.
- Footte Company, The. (See Footte, Charles E., assignor.)
- Footte, Hugh S., assignor to Standard Chemical Company, Pittsburgh, Pa. Alloy. No. 1,366,254; Jan. 18; v. 282; p. 511.
- Footte, James H., Cincinnati, Ohio. Sash-pulley. No. 1,386,774; Aug. 9; v. 289; p. 232.
- Footte, John B., Oak Park, Ill. Tractor. No. 1,373,608; Apr. 5; v. 285; p. 44.
- Footte, John B., Oak Park, Ill. Variable-speed-transmission gearing. No. 1,382,278; June 21; v. 287; p. 481.
- Footte, John B., Oak Park, Ill. Tractor. No. 1,382,279; June 21; v. 287; p. 482.
- Footte, John B., Oak Park, Ill. Motor-driven vehicle. No. 1,382,280; June 21; v. 287; p. 482.
- Footte, Thomas W., East Cleveland, Ohio. Machine for sizing dowel-pins and the like. No. 1,401,331; Dec. 27.
- Footte, Thomas W., Cleveland, assignor to The Marble & Shattuck Chair Company, Bratenahl, Ohio. Apparatus for recovering shellac and the like. No. 1,368,426; Feb. 15; v. 283; p. 407.
- Footte, Thomas W., Cleveland, assignor to The Marble & Shattuck Chair Company, Bratenahl, Ohio. Interlocking chair-base. No. 1,401,330; Dec. 27.
- Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Platen equipment for typewriting-machines. No. 1,375,749; Apr. 26; v. 285; p. 592.
- Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Ribbon-spool for typewriters. No. 1,378,672; May 17; v. 286; p. 548.
- Foothorap, Harry A., assignor to Elliott-Fisher Company, Harrisburg, Pa. Typewriting-machine. No. 1,383,096; June 28; v. 287; p. 691.
- Foppoby, Frank W., Laws, Calif. Superheater. No. 1,401,063; Dec. 20.
- Forbes, Alexander J., North Kessock, by Inverness, Scotland. Safety-coupling for motor-plows and the like. No. 1,364,628; Jan. 4; v. 282; p. 112.
- Forbes, Edward, Webster, Mass. Bleaching composition. No. 1,401,901; Dec. 27.
- Forbes, John S., Philadelphia, Pa. Refrigerator. No. 1,377,824; May 10; v. 286; p. 333.
- Forbes, Kingston, Flint, assignor to General Motors Corporation, Detroit, Mich. Curtain-support. No. 1,390,113; Sept. 6; v. 290; p. 112.
- Forbes, Martin W., Miamisburg, Ohio. Combined truck and jack. No. 1,391,773; Sept. 27; v. 290; p. 673.
- Forbes, Theodore C., Chicago, Ill. Resilient wheel. No. 1,391,729; Sept. 27; v. 290; p. 665.
- Forbes Tubular Products Corporation. (See Rendano, Emil, assignor.)
- Forbis, Rufus E., assignor to Chemical Construction Company, Charlotte, N. C. Acid-phosphate apparatus. No. 1,376,612; May 3; v. 286; p. 41.
- Forcellon, Henry, New York, N. Y., assignor to Alpha Products Company, Inc. Protecting sparking metal. No. 1,396,032; Nov. 8.
- Forcier, William G., Wollaston, Mass. Ventilator. No. 1,373,960; Apr. 5; v. 285; p. 114.
- Forcier, William G., Wollaston, Mass. Damper for ventilating systems. No. 1,391,309; Sept. 20; v. 290; p. 507.
- Ford, Allen S., Taunton, England. Electric kettle and the like. No. 1,390,028; Sept. 6; v. 290; p. 95.
- Ford, Andrew F., Spokane, Wash. Gearless differential. No. 1,365,586; Jan. 11; v. 282; p. 341.
- Ford-Barger Machinery Co. (Reissue.) (See Barger, N. L., and Donaldson, assignors.)
- Ford, Barnie S., Coleman, Tex. Cotton-blocking machine. No. 1,390,114; Sept. 6; v. 290; p. 112.
- Ford, Ben K., Oak Park, assignor to Fibre Can Corporation, Chicago, Ill. Machine for reducing the ends of container-bodies. No. 1,384,945; July 19; v. 288; p. 479.
- Ford, Bruce, Philadelphia, Pa. Secondary or storage battery. No. 1,367,593; Feb. 8; v. 283; p. 199.
- Ford, Bruce, Philadelphia, Pa. Storage battery. No. 1,367,594; Feb. 8; v. 283; p. 199.
- Ford, Bruce, Philadelphia, Pa. Storage battery. No. 1,367,595; Feb. 8; v. 283; p. 199.
- Ford, Bruce, Philadelphia, Pa. Storage battery. No. 1,370,011; Mar. 1; v. 284; p. 49.
- Ford, Bruce, Philadelphia, Pa. Vent-cover for storage batteries. No. 1,370,012; Mar. 1; v. 284; p. 49.
- Ford, Bruce, Philadelphia, Pa. Storage-battery plate. No. 1,370,013; Mar. 1; v. 284; p. 49.
- Ford, Bruce, Philadelphia, Pa. Retainer or separator for secondary or storage batteries. No. 1,376,927; May 3; v. 286; p. 104.
- Ford, Bruce, Philadelphia, Pa. Secondary or storage battery. No. 1,376,928; May 3; v. 286; p. 105.
- Ford, Bruce, Philadelphia, Pa. Storage-battery plate. No. 1,376,929; May 3; v. 286; p. 105.
- Ford, Bruce, and E. W. Smith, Philadelphia, Pa. Making storage-battery separators. No. 1,364,493; Jan. 4; v. 282; p. 87.
- Ford, Charles A., East Orange, N. J. Perpetual calendar. No. 1,364,101; Jan. 4; v. 282; p. 10.
- Ford, Charles C., Point Loma, Calif. Grade-indicator. No. 1,375,141; Apr. 19; v. 285; p. 444.
- Ford, Charles F., Chicago, Ill. Ball-bearing-locking device. No. 1,380,708; June 7; v. 287; p. 73.
- Ford, Claud J., assignor to S. L. Savidge, Portland, Ore. Mounting for shock-absorbers. No. 1,374,997; Apr. 19; v. 285; p. 416.
- Ford, Edwin V., Galena, Kans. Electric lug. No. 1,392,136; Sept. 27; v. 290; p. 747.
- Ford, Eugene A., Newton, Mass., assignor to R. E. D. Engine Company, Inc., New York, N. Y. Liquid packing means for engine-pistons. No. 1,388,520; Aug. 23; v. 289; p. 658.
- Ford, Eugene A., Newton, Mass., assignor to R. E. D. Engine Company, Inc., New York, N. Y. Engine-drive. No. 1,398,260; Nov. 29.
- Ford, George A., Kansas City, Mo. Tying device. No. 1,387,699; Aug. 16; v. 289; p. 468.
- Ford, Hannibal C., assignor to Ford Instrument Company, Inc., New York, N. Y. Range-keeper. No. 1,370,204; Mar. 1; v. 284; p. 85.
- Ford, Hannibal C., Jamaica, and H. L. Tanner, assignors to Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic compass for ships. (Reissue.) No. 15,072; Mar. 29; v. 284; p. 908.
- Ford, Harry R. (See Burganer, Aaron A., assignor.)
- Ford, Henry, Dearborn, Mich. Fan construction. No. 1,372,414; Mar. 22; v. 284; p. 674.
- Ford, Henry, Dearborn, Mich. Clutch. No. 1,375,956; Apr. 26; v. 285; p. 632.
- Ford, Henry, Dearborn, Mich. Gear-shift-locking device. No. 1,377,331; May 10; v. 286; p. 239.
- Ford, Henry, Dearborn, Mich. Front-axle assembly. No. 1,377,674; May 10; v. 286; p. 303.
- Ford, Henry, Dearborn, Mich. Dash assembly and controlling device. No. 1,387,147; Aug. 9; v. 289; p. 307.
- Ford, Henry, Dearborn, Mich. Hub construction. No. 1,395,913; Nov. 1.
- Ford, Henry, Detroit, Mich. Belt-adjusting means. No. 1,393,990; Oct. 18.
- Ford, Henry, Hospital. (See Wood, Albert G., Jr., assignor.)
- Ford, Henry, & Son. (See Sorensen, Charles E., assignor.)
- Ford Instrument Company. (See Ford, Hannibal C., assignor.)
- Ford Instrument Company. (See Meitner, Elemer, assignor.)
- Ford, John, guardian. (See Livezey, Albert.)
- Ford, John. (See Parsons, C. A., Cook, Carnegie, Ford, and Bone.)
- Ford, Julius C., Summit, Miss. Seed-threshing and collecting machine. No. 1,380,470; June 7; v. 287; p. 28.
- Ford, Max, New York, N. Y. Bow-necktie fastener. No. 1,391,102; Sept. 20; v. 290; p. 465.
- Ford Motor Company. (See Galamb, J., and Oswald, assignors.)
- Ford Motor Company. (See Farkas, Eugene J., assignor.)
- Ford Motor Company. (See Wandersee, J. F., Peretto, and Albrecht, assignors.)
- Ford Motor Company. (See Wandersee, John F., assignor.)
- Ford Motor Company of Delaware. (See Albrecht, T., Peretto, and Wandersee, assignors.)
- Ford, Patrick J., Augusta, Ga. Game. No. 1,378,018; May 17; v. 286; p. 422.
- Ford, Ralph L., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Lever mechanism. No. 1,366,565; Jan. 25; v. 282; p. 617.
- Ford, Ralph L., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Check-wire guide for hill drop-planters. No. 1,376,522; May 3; v. 286; p. 27.
- Ford, Ralph L., Chicago, Ill., assignor to International Harvester Company. Valve and trip-lock for planters. No. 1,382,771; June 28; v. 287; p. 630.
- Ford, Reginald. (See Liarsen, J. B. M., and Colombani, assignors.)
- Ford, Robert E., Baltimore, Md. Insertible fitting. No. 1,367,312; Feb. 1; v. 283; p. 85.
- Ford, Silas M. (See Wulff, Henry, assignor.)
- Ford, Silas M., St. Paul, Minn. Roofing material. No. 1,365,902; Jan. 18; v. 282; p. 443.
- Ford, William H. D., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. No. 1,364,874; Jan. 11; v. 282; p. 203.
- Ford, William H. D., Yonkers, assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic relay. No. 1,374,193; Apr. 12; v. 285; p. 198.
- Ford, William H. D., assignor to Western Electric Company, Incorporated, New York, N. Y. Spring-tension gage. No. 1,383,713; July 5; v. 288; p. 95.
- Forderer, John W., San Francisco, Calif. Sound-reproducer for phonographs. No. 1,393,106; Oct. 11.
- Fording, William G., Cleveland, Ohio. Expandible collapsible tire-forming re. No. 1,373,228; Mar. 29; v. 284; p. 876.



*Alphabetical list of patentees—Continued.*

- Fording, William G., Lakewood, Ohio. Expandible and collapsible core for tire-casings. No. 1,373,229; Mar. 29; v. 284; p. 876.
- Fording, William G., Cleveland, Ohio. Tire. No. 1,401,148; Dec. 27.
- Fordyce, John R., St. Louis, Mo., assignor of one-half to E. P. Pierson, Washington, D. C. Firearm. No. 1,386,247; Aug. 2; v. 289; p. 57.
- Fordyce, Rufus G., assignor to Radium Dial Company, Pittsburgh, Pa. Luminous article. No. 1,388,855; Aug. 30; v. 289; p. 808.
- Foreman, Amos L., York, Pa., assignor to Milk Dealers Crate Corporation, Wilmington, Del. Bottle-crate. No. 1,368,221; Feb. 8; v. 283; p. 319.
- Foreman, Amos L., York, Pa., assignor to Milk Dealers Crate Corporation, Wilmington, Del. Uniting wooden strips. No. 1,368,222; Feb. 8; v. 283; p. 319.
- Forester, James, New York, N. Y. Sanitary wardrobe-shelf. No. 1,398,071; Nov. 22.
- Forgiel, Jakob. (See Sokolowski, S. and Forgiet.)
- Forgrave, Lyman R., St. Joseph, Mo. Throat and mouth gag. No. 1,388,421; Aug. 23; v. 289; p. 669.
- Forkner, Robert F., Princeton, W. Va., and A. Straightiff, Roanoke, Va. Removable wrist-pin bearing. No. 1,375,142; Apr. 19; v. 285; p. 444.
- Forkner, Robert F., and A. Straightiff, Princeton, W. Va. Oiling system. No. 1,364,102; Jan. 4; v. 282; p. 10.
- Forkner, Robert F., and J. P. Dehaven, Princeton, W. Va. Gear-shift. No. 1,379,753; May 31; v. 286; p. 898.
- Forlander, Morris, New York, N. Y. Lock. No. 1,398,636; Nov. 29.
- Forman, John R. (See Willett, Hazen F., assignor.)
- Forman, Joseph, Baltimore, Md. Necktie. No. 1,373,065; Mar. 29; v. 284; p. 842.
- Forman Syndicate. (See Mooney, F. M., assignor.)
- Formby, George M., assignor to Formby Petrinite Corporation, Jacksonville, Fla. Plastic composition and producing the same. No. 1,376,523; May 3; v. 286; p. 27.
- Formby, George M., assignor to Formby Petrinite Corporation, Jacksonville, Fla. Making a cementitious composition. No. 1,379,680; May 31; v. 286; p. 885.
- Formby Petrinite Corporation. (See Formby, George M., assignor.)
- Former, James H., Hackney, London, England. Safety locking device for motor-vehicles. No. 1,388,417; Aug. 23; v. 289; p. 668.
- Forney, Clarence H., assignor to Forney Fibre Company, Jersey City, N. J. Spool-head. No. 1,388,635; Aug. 23; v. 289; p. 710.
- Forney, Ernest S., Fullerton, Nebr. Stalk-cutting machine. No. 1,375,582; Apr. 19; v. 285; p. 528.
- Forney Fibre Company. (See Forney, Clarence H., assignor.)
- Forni, Natale, Santa Rosa, Calif. Water-meter box. No. 1,395,807; Nov. 1.
- Fornwalt, Franklin E., Harrisburg, Pa. Painting device. No. 1,380,950; June 7; v. 287; p. 120.
- Forrer, Eugene, Budd Lake, N. J. Pipe-joint. No. 1,395,808; Nov. 1.
- Forrest, Alfred L., Baltimore, Md. Non-slipping attachment for vehicle-wheels. No. 1,365,903; Jan. 18; v. 282; p. 443.
- Forrest, James S. (See Forrest, Peter C. and J. S.)
- Forrest, Peter C. and J. S., Toronto, Ontario, Canada. Cinder-sifter. No. 1,364,926; Jan. 11; v. 282; p. 213.
- Forrester, George H., Iver, G. Marsh, London, and J. D. Marsh, deceased, London, England, by G. Marsh, administrator. Apparatus for building concrete structures. No. 1,367,313; Feb. 1; v. 283; p. 85.
- Forrester, George H., Iver, England. Concrete wall. No. 1,379,754; May 31; v. 286; p. 898.
- Forry, Charles E., assignor of one-half to Arthur L. Duncan, Oakland, Calif. Stemming apparatus. No. 1,365,096; Jan. 11; v. 282; p. 246.
- Forry, Charles E., assignor of one-half to A. L. Duncan, Oakland, Calif. Cherry-stemmer. No. 1,400,352; Dec. 13.
- Fors, Arthur R., assignor to Continental Motors Corporation, Detroit, Mich. Cutting-tool. No. 1,396,180; Nov. 8.
- Forsberg, Albin L., Chicago, Ill., assignor to Thomson and Taylor Spice Company, Pouring-spout. No. 1,397,952; Nov. 22.
- Forschler, Albert L. (See Forschler, Philip and A. L.)
- Forschler, Philip and A. L., New Orleans, La. Tire-carrier for motor-vehicles. No. 1,379,591; May 24; v. 286; p. 704.
- Forsee, William C., Kansas City, Mo. Washing-machine. No. 1,381,982; June 21; v. 287; p. 427.
- Forsell, Frans E., assignor to Parks Bros. & Rogers, Providence, R. I. Lingerie-clasp. No. 1,376,613; May 3; v. 286; p. 44.
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Electric range. No. 1,374,558; Apr. 12; v. 285; p. 269.
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Electric-range heating element. No. 1,376,415; May 3; v. 286; p. 7.
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Comb attachment to curling-irons. No. 1,376,416; May 3; v. 286; p. 7.
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Terminal structure for electric ranges. No. 1,385,989; Aug. 2; v. 289; p. 5.
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Electric range. No. 1,385,990; Aug. 2; v. 289; p. 5.
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Arrangement of heaters in electric ovens. No. 1,398,542; Nov. 29.
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Electric waffle-iron. No. 1,401,688; Dec. 27.
- Forslund, John, Seattle, Wash. Apparatus for transferring mail. No. 1,386,856; Aug. 9; v. 289; p. 249.
- Forsman, Stanton W., Los Angeles, Calif. Apparatus for sealing containers. No. 1,388,422; Aug. 23; v. 289; p. 669.
- Forsblad, Nils R., Västerås, Sweden. Electrical steam and hot-water boiler. No. 1,386,487; Aug. 2; v. 289; p. 101.
- Forster, Albert O. and P. M., Berkeley, Calif. Trap-nest. No. 1,386,327; Aug. 2; v. 289; p. 73.
- Forster, Albert O. and P. M., Berkeley, Calif. Trap-nest. No. 1,394,485; Oct. 18.
- Forster, Frank T., Pittsfield, Mass., assignor to General Electric Company. Safety-lamp. No. 1,369,644; Feb. 22; v. 283; p. 683.
- Forster, John, Los Angeles, Calif. Lock-joint. No. 1,393,679; Oct. 11.
- Forster, Percy M. (See Forster, Albert O. and P. M.)
- Förster, Rudolf, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Apparatus for raising or lowering a load. No. 1,379,546; May 24; v. 286; p. 786.
- Forsyth, Andrew C. (See Kuhn, Frank F., assignor.)
- Forsyth, George H., Chicago, Ill. Disk steel wheel. No. 1,373,184; Mar. 29; v. 284; p. 867.
- Forsyth, George H., Chicago, Ill. Disk wheel. No. 1,373,185; Mar. 29; v. 284; p. 867.
- Forsyth, George H., Harvey, Ill. Disk wheel. No. 1,373,186; Mar. 29; v. 284; p. 867.
- Forsyth, George H., Harvey, Ill. Disk wheel. No. 1,375,372; Apr. 19; v. 285; p. 488.
- Forsyth, George H., Chicago, Ill. Apparatus for electric welding. No. 1,375,687; Apr. 26; v. 285; p. 581.
- Forsyth, George H., Chicago, Ill. Disk wheel. No. 1,377,162; May 3; v. 286; p. 149.
- Forsyth, George H., Chicago, Ill. Disk wheel. No. 1,378,537; May 17; v. 286; p. 521.
- Forsyth, George H., Chicago, Ill. Sash construction. No. 1,380,372; June 7; v. 287; p. 9.
- Forsyth, George H., Chicago, Ill. Forming disk wheels. No. 1,399,951; Dec. 13.
- Forsyth, Joseph E., Chicago, Ill. Train-pipe coupling. No. 1,381,865; June 14; v. 287; p. 344.
- Forsyth, Joseph L., and A. Bopp, Baltimore, Md. Power mechanism. No. 1,396,824; Nov. 15.
- Forsyth, Oliver E., assignor to Wm. H. Hoegee Co., Inc., Los Angeles, Calif. Garment. No. 1,365,904; Jan. 18; v. 282; p. 443.
- Forsythe, Andrew J., Russiaville, Ind. Yoke. No. 1,399,204; Dec. 6.
- Fort, Louis, Jersey City, N. J. Submergible vessel. No. 1,382,073; June 21; v. 287; p. 443.
- Fort Pitt Bedding Company. (See Silvester, Joseph, assignor.)
- Fort Wayne Engineering and Manufacturing Co. (See Astrom, John, assignor.)
- Forté, Frank, Tenafly, N. J. Sled-brake. No. 1,371,155; Mar. 8; v. 284; p. 311.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Induction-motor control. No. 1,374,559; Apr. 12; v. 285; p. 269.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing means for polyphase systems. No. 1,376,417; May 3; v. 286; p. 8.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay system. No. 1,376,418; May 3; v. 286; p. 8.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Polyphase distributing system. No. 1,376,419; May 3; v. 286; p. 8.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Phase-balancer. No. 1,376,420; May 3; v. 286; p. 8.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Single-phase motor. No. 1,376,421; May 3; v. 286; p. 8.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Polyphase distributing system. No. 1,376,422; May 3; v. 286; p. 9.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Phase distributing system. No. 1,376,423; May 3; v. 286; p. 9.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulating system. No. 1,376,424; May 3; v. 286; p. 9.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for eliminating harmonics in polyphase alternators. No. 1,376,425; May 3; v. 286; p. 9.



## Alphabetical list of patentees—Continued.

- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting system. No. 1,377,573; May 10; v. 286; p. 284.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Phase-balancing system. No. 1,378,019; May 17; v. 286; p. 422.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal for electrolytic condensers. No. 1,382,899; June 28; v. 287; p. 654.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,384,442; July 12; v. 288; p. 295.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,392,137; Sept. 27; v. 290; p. 748.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Railway signaling system. No. 1,396,825; Nov. 15.
- Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical distributing system. No. 1,396,826; Nov. 15.
- Fortescue, Charles L., Pittsburgh, and G. I. Gilchrest, Wilkesburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Insulator. No. 1,374,998; Apr. 19; v. 285; p. 416.
- Forthman, Benjamin, Maplewood, Mo. Radiator-cover. No. 1,401,064; Dec. 20.
- Forti, Victor, Paris, France. Automatic gas lighter and extinguisher. No. 1,395,567; Nov. 1.
- Fortier, Alfred, Mayo Landing, Yukon Territory, Canada. Paddle-wheel. No. 1,390,523; Sept. 13; v. 290; p. 285.
- Fortin, Paul R., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,401,685; Dec. 27.
- Forner, Harry F., Clinton, Ind. Paper-trimming means. No. 1,376,264; Apr. 26; v. 285; p. 690.
- Fortney, Ashford E., Bridgeport, Ohio. Water-conductor. No. 1,368,918; Feb. 15; v. 283; p. 503.
- Fortney, Chauncey O., Bowling Green, Ohio. Lubricator. No. 1,375,143; Apr. 19; v. 285; p. 445.
- Fortuna-Werke, Spezial-Maschinen-Fabrik, G. m. b. H. (See Andres, Albert, assignor.)
- Forwe, John H., Delwood, Ill. Back and belly band holder. No. 1,390,115; Sept. 6; v. 290; p. 113.
- Fosler, Ira G., Chicago, Ill. Pulsator. No. 1,376,804; May 3; v. 286; p. 80.
- Foss, Christian, assignor of one-half to N. Nilsen, Tacoma, Wash. Checkerboard. No. 1,371,476; Mar. 15; v. 284; p. 438.
- Foss, Fred, Spokane, Wash. Socket-wrench. No. 1,391,677; Sept. 27; v. 290; p. 654.
- Foss, Fred G., Newark, N. J., assignor to American Can Company, New York, N. Y. Drying cans. No. 1,375,373; Apr. 19; v. 285; p. 488.
- Foss-Hughes Company. (See Noonan, Albert S., assignor.)
- Foss, Manton E., Wilder, Minn. Pump. No. 1,392,928; Oct. 11.
- Foss, W. H., Co. (See Foss, Wallace H., assignor.)
- Foss, Wallace H., Cambridge, assignor to W. H. Foss Co., Inc., Boston, Mass. Shank-stiffener. No. 1,397,681; Nov. 22.
- Fossa, Joseph, Danvers, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method and mechanism for sewing reverse purl. No. 1,370,528; Mar. 8; v. 284; p. 191.
- Fossa, Joseph, New York, N. Y., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Buttonhole-sewing machine. No. 1,371,359; Mar. 15; v. 284; p. 414.
- Fossati, Mario, Turin, Italy. Gear-wheel. No. 1,390,198; Sept. 6; v. 290; p. 128.
- Foster, Albion D., Denver, Colo. Street-indicator. No. 1,371,471; May 10; v. 286; p. 266.
- Foster, Arthur B., Washington, D. C. Treating oils. No. 1,394,486; Oct. 18.
- Foster Brothers Manufacturing Company. (See Foster William B., assignor.)
- Foster, Carroll J. (See Tompkins, J. H., and Foster.)
- Foster, Charles B., and Company. (See Higinbotham, Arthur O., assignor.)
- Foster, Charles E., Letchworth, England. Electrical measuring instrument. No. 1,375,837; Apr. 26; v. 285; p. 608.
- Foster, Claud H., Wickliffe-on-the-Lake, Ohio. Liquid-fuel-heating device. No. 1,398,012; Nov. 22.
- Foster, Edward B., Quartzsite, Ariz. Hoisting device. No. 1,386,561; Aug. 2; v. 289; p. 116.
- Foster, Edward E., Beverly, Mass. Thread-measuring mechanism for sewing-machines. No. 1,369,414; Feb. 22; v. 283; p. 638.
- Foster, Emory M., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Demountable rim and means for fastening same. No. 1,379,809; May 31; v. 286; p. 909.
- Foster, Emory M., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Demountable-rim-operating lever. No. 1,394,989; Oct. 25.
- Foster, Ephraim A., Sandusky, Ohio. Wheeled ladder. No. 1,384,694; July 12; v. 288; p. 248.
- Foster, Frank M., Washington, D. C. Ignition-switch. No. 1,374,440; Apr. 12; v. 285; p. 246.
- Foster, Freling C., Chicago, Ill. Car-brake. No. 1,394,990; Oct. 25.
- Foster, George, Bicknell, Ind. Mine-car-controlling mechanism. No. 1,398,896; Nov. 29.
- Foster, George E., Belleville, Ontario, Canada. Rolling-mill. No. 1,382,827; June 28; v. 287; p. 640.
- Foster, George H., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,368,620; Feb. 15; v. 283; p. 445.
- Foster, Harry C., assignor to Indiana Lamp Company, Connersville, Ind. Lamp construction. No. 1,373,878; Apr. 5; v. 285; p. 97.
- Foster, Harry C., assignor to Indiana Lamp Company, Connersville, Ind. Latch for lamp construction. No. 1,390,774; Sept. 13; v. 290; p. 536.
- Foster, Harry C., Dayton, assignor to The Burch Plow Works Company, Crestline, Ohio. Combined spreader and roller. No. 1,401,149; Dec. 27.
- Foster, Harry C., and W. M. Thomas, Connersville, Ind., assignors to Indiana Lamp Company. Fastening means for lamp-lenses. No. 1,390,629; Sept. 6; v. 290; p. 95.
- Foster, Henry A., Des Moines, Iowa. Waterer and feeder. No. 1,391,824; Sept. 27; v. 290; p. 684.
- Foster, Henry J., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Clamp for concrete-forms. No. 1,376,614; May 3; v. 286; p. 45.
- Foster, Henry J., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Sheet-metal felly. No. 1,379,810; May 31; v. 286; p. 909.
- Foster, Isaac G., Portland, Oreg. Emergency-aileron. No. 1,369,333; Feb. 22; v. 285; p. 622.
- Foster, James G. (See Stevens, Joseph B., assignor.)
- Foster, John, Calgary, Alberta, Canada. Oil-separator. No. 1,379,176; May 24; v. 286; p. 715.
- Foster, John P., Paia, Hawaii. Composite motor-fuel. No. 1,384,946; July 19; v. 288; p. 480.
- Foster-Johnson Reamer Company. (See Johnson, William B., assignor.)
- Foster, Joseph B., Roanoke, Va. Diatoric or pinless tooth. No. 1,386,463; Aug. 2; v. 289; p. 97.
- Foster, Joseph B., Roanoke, Va. Dental bridge. No. 1,392,824; Oct. 4.
- Foster, Joseph B., Roanoke, Va. Attaching means for artificial teeth. No. 1,394,299; Oct. 18.
- Foster Machine Company. (See McKean, John O., assignor.)
- Foster, Merriam & Company. (See Hinckley, Percy P., assignor.)
- Foster, Merriam and Company. (See Rowntree, Frank L., assignor.)
- Foster, Q. T., et al. (See Pritchett, Joseph F., assignor.)
- Foster, Ralph W. (See Babbitt, W. Edmands, assignor.)
- Foster-Reinhold Laboratories. (See Reinhold, Otto F., assignor.)
- Foster, Samuel G., Westfield, N. J. Adjustable window-screen. No. 1,393,616; Oct. 11.
- Foster, Wade H., Bad Axe, Mich. Footwear-vulcanizer. No. 1,374,371; Apr. 12; v. 285; p. 233.
- Foster, Walter H. (See Eden, James A., Jr., assignor.)
- Foster, Walter H. (See Woods, Norman E., assignor.)
- Foster, William B., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Coiled-spring structure. No. 1,372,129; Mar. 22; v. 284; p. 619.
- Foster, William B., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Sliding-side crib. No. 1,376,328; Apr. 26; v. 285; p. 703.
- Foster, William B., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Corner-fastening for bedsteads. No. 1,384,126; July 12; v. 288; p. 229.
- Foster, William B., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Bracket for angular-walled tubing. No. 1,391,103; Sept. 20; v. 290; p. 465.
- Foster, Wolcott C., Rutherford, N. J. Base-exchanging. No. 1,385,124; July 19; v. 288; p. 518.
- Fotch, Arthur J., et al. (See Hayda, Oscar, assignor.)
- Fotchuk, Theodor, Toronto, Ontario, Canada. Shoe-closure. No. 1,390,991; Sept. 20; v. 290; p. 442.
- Fothergill, Harry, Westminster, London, England. Automatic control of steam-condensing plants. No. 1,392,003; Sept. 27; v. 290; p. 722.
- Fouasse, Henri, assignor to Societe d'Optique et de Mecanique de Haute Precision, Paris, France. Apparatus for engaging and fastening plate-holder frames and film-holders on the body of photographic apparatus. No. 1,370,529; Mar. 8; v. 284; p. 191.
- Fouasse, Henri, assignor to Societe d'Optique et de Mecanique de Haute Precision, Paris, France. Deviator for range-finders. No. 1,370,530; Mar. 8; v. 284; p. 192.
- Fougner, Hermann, New York, N. Y. Reinforcing-bar. No. 1,400,278; Dec. 13.
- Foulder, Henry B., Brooklyn, N. Y., assignor to J. P. Curry Mfg. Co., Inc., Stamford, Conn. Tool for twisting ties. No. 1,387,249; Aug. 9; v. 289; p. 325.
- Foulke, Francis E., Albany, N. Y. Rotary-valve packing-ring. No. 1,392,752; Oct. 4.
- Foundation Company, The. (See Brown, L. L., and Deutschbein, assignors.)
- Foundation Oven Corporation. (See Roberts, William E., assignor.)
- Foundation Oven Corporation. (See Schrader, L. F., Roberts, and Bredlik, assignors.)
- Fountain, Harold N., Claremore, Okla. Drilling-rig. No. 1,370,498; Mar. 1; v. 285; p. 141.



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- Fountain, Henry L., Bryan, Tex. Railway cattle-guard. No. 1,364,363; Jan. 4; v. 282; p. 67.
- Fountain, Joseph B., and J. B. Parker, Lakeland, Fla. Emergency-air-brake attachment. No. 1,382,900; June 28; v. 287; p. 654.
- Four Wheel Drive Auto Co. (See Sorensen, James, assignor.)
- Four-in-One Safety Razor Company. (See Dwyer, William, assignor.)
- Fourness, Charles A. (See Boon, H. G., and Fourness.)
- Fournier, Ernest, and T. Testu, Nice, France. Block-signaling apparatus for railways. No. 1,380,890; June 7; v. 287; p. 108.
- Foute, Raymond R., assignor to Lakeside Supply Company, Chicago, Ill. Phonograph. No. 1,393,769; Oct. 18.
- Fouts, Frank, Galveston, Ind. Hog-feeder. No. 1,392,004; Sept. 27; v. 290; p. 722.
- Fow, Raymond S. C., assignor to C. W. Schaffer, Jr., Philadelphia, Pa. Toilet-cabinet. No. 1,365,313; Jan. 11; v. 282; p. 288.
- Fowble, Oscar R., Huntington, W. Va. Wrench. No. 1,380,952; May 31; v. 286; p. 955.
- Fowkes, William H., Chicago, Ill., assignor to Buda Company. Lifting-jack. No. 1,396,951; Nov. 15.
- Fowkes, William H., Chicago, and M. J. Harkless, Harvey, Ill., assignors to The Buda Company. Lifting-jack. No. 1,396,952; Nov. 15.
- Fowler, Alfred B., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Clutch mechanism. No. 1,386,054; Aug. 2; v. 289; p. 19.
- Fowler, Alonzo J., Hillsboro, Tex. Cotton-blocker. No. 1,368,621; Feb. 15; v. 283; p. 445.
- Fowler, Carl H. (See Higley, Herman W., assignor.)
- Fowler, Charles, Boston, Mass. Stocking-stretcher. No. 1,401,065; Dec. 20.
- Fowler, Clarence B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,371,749; Mar. 15; v. 284; p. 490.
- Fowler, Clarence B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,387,250; Aug. 9; v. 289; p. 326.
- Fowler, Clarence B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,387,251; Aug. 9; v. 289; p. 326.
- Fowler, Clarence B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,396,739; Nov. 15.
- Fowler, Clarence B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,398,589; Nov. 29.
- Fowler, David M., assignor of one-half to R. H. Caton, Terre Haute, Ind. Adjustable trolley-wheel fork. No. 1,384,458; July 12; v. 288; p. 298.
- Fowler, Elbert, U. S. Army. Trigger and sear mechanism for machine-guns. No. 1,375,451; Apr. 19; v. 285; p. 504.
- Fowler, Fannie A., administratrix. (See Fowler, Nathaniel C., Jr.)
- Fowler, Frank, Philadelphia, Pa. Toy. No. 1,383,795; July 5; v. 288; p. 112.
- Fowler, Gates W., Los Angeles, Calif. Apparatus for producing noxious gases and method of asphyxiating obnoxious animals. No. 1,400,598; Dec. 20.
- Fowler, George S., Joplin, Mo. Piston for internal-combustion engines. No. 1,381,408; June 14; v. 287; p. 258.
- Fowler, George S., Joplin, Mo. Piston for internal-combustion engines. No. 1,399,106; Dec. 6.
- Fowler, Harlan D., Sacramento, Calif. Variable-area wing. No. 1,392,005; Sept. 27; v. 290; p. 722.
- Fowler, Jesse W. (See Thomas, W. C., Dickens, and Fowler.)
- Fowler, Jonathan O., New York, N. Y. Convertible bed. No. 1,372,344; Mar. 22; v. 284; p. 661.
- Fowler, Jonathan O., New York, N. Y. Safety tread. (Reissue.) No. 15,137; July 5; v. 288; p. 161.
- Fowler, Jonathan O., New York, N. Y. Key-base for plastic material. No. 1,390,774; Sept. 13; v. 290; p. 336.
- Fowler, Mack J., Roanoke, Va. Locomotive sander attachment. No. 1,388,811; Aug. 23; v. 289; p. 745.
- Fowler, Nathaniel C., Jr., deceased; F. A. Fowler, Somerville, Mass., administratrix. Composition of sugar and preparing the same. No. 1,374,160; Apr. 5; v. 285; p. 151.
- Fowler, Robert L., Perth Amboy, N. J., assignor to The Barber Asphalt Paving Company, Philadelphia, Pa. Device for facilitating the unloading of tank-cars carrying bituminous materials. No. 1,370,531; Mar. 8; v. 284; p. 192.
- Fowler, William E., Jr., Pittsburgh, Pa., assignor to Liberty Steel Products Company, Inc. Brake-beam fulcrum. No. 1,389,041; Aug. 30; v. 289; p. 846.
- Fowler, William M., Sound Beach, Conn. Dispensing-nozzle for bottling-machines. No. 1,376,088; Apr. 26; v. 285; p. 657.
- Fowler-Williams Company. (See Barnes, John A., assignor.) (Reissue.)
- Fowles, Alfred T., Dallas, Tex. Water-heater. No. 1,382,495; June 21; v. 287; p. 523.
- Fowles, Alfred T., Dallas, Tex. Attaching-ring. No. 1,382,496; June 21; v. 287; p. 524.
- Fox, Alfred G., New Cross, England. Means for feeding fuel to furnaces. No. 1,366,779; Jan. 25; v. 282; p. 659.
- Fox, Alfred G., New Cross, England. Chain grate. No. 1,386,857; Aug. 9; v. 289; p. 249.
- Fox, Andrew, Fort Wayne, Ind. Clothesline pulley and fastener. No. 1,377,768; May 10; v. 286; p. 322.
- Fox, Ansley H., Company. (See Fox, Ansley H., assignor.)
- Fox, Ansley H., assignor, by mesne assignments, to Fox Motor Car Company, Philadelphia, Pa. Air-cooling system for internal-combustion engines. No. 1,367,810; Feb. 8; v. 283; p. 240.
- Fox, Ansley H., assignor to Ansley H. Fox Company, Philadelphia, Pa. Machine-gun. No. 1,388,856; Aug. 30; v. 289; p. 808.
- Fox, Austen H., New York, and A. W. Lenderoth, Stapleton, N. Y. Railway controlling device. No. 1,371,675; Mar. 15; v. 284; p. 476.
- Fox, Charles C. (See Thompson, Arthur R., assignor.)
- Fox, Charles, E., and R. S. Fox, York, Pa. Manufacture of bread. No. 1,377,825; May 10; v. 286; p. 333.
- Fox, Daniel S., Deep River, Conn. Expansion-drill. No. 1,385,370; July 26; v. 288; p. 643.
- Fox, Edward. (See Fox, C., E., and R. S.)
- Fox, Frederick L., assignor of one-fourth to H. I. Meader, one-fourth to D. B. Phillips, and one-fourth to C. D. Davis, Washington, D. C. Boat. No. 1,389,865; Sept. 6; v. 290; p. 61.
- Fox, Godfrey H., Seattle, Wash. Graduated calipers. No. 1,385,910; July 26; v. 288; p. 753.
- Fox, Gustave, Company, The. (See Laws, Edward H., assignor.)
- Fox, James M. (See Anagnostopoulos, Theodore D., assignor.)
- Fox, John B., Chicago, Ill. Box. No. 1,390,116; Sept. 6; v. 290; p. 113.
- Fox, John F., assignor to Southern Wheel Company, St. Louis, Mo. Hollow-axle truck. No. 1,368,495; Feb. 15; v. 283; p. 421.
- Fox, Joseph P., St. Cloud, Minn. Sign. No. 1,381,983; June 21; v. 287; p. 427.
- Fox, Kent R. (See Allen, H. I., and Fox.)
- Fox, Louis. (See Cranage, Harry B., assignor.)
- Fox Motor Car Company. (See Fox, Ansley H., assignor.)
- Fox, Otto, Lakewood, assignor to The Bryant Heater and Manufacturing Company, Cleveland, Ohio. Fuel control for boilers. No. 1,384,247; July 12; v. 288; p. 254.
- Fox, Roy S. (See Fox, C., E., and R. S.)
- Fox, Thomas S. (See Grever, J. F., and Fox.)
- Fox, William H., Minneapolis, Minn. Demountable rim. No. 1,371,676; Mar. 15; v. 284; p. 476.
- Fox, William R., Jackson, Mich. Flexible shaft-coupling. No. 1,371,750; Mar. 15; v. 284; p. 190.
- Fox, William R., and A. A. Riddell, Jackson, Mich.; said Riddell assignor to said Fox. Flexible shaft-coupling. No. 1,382,720; June 28; v. 287; p. 620.
- Fox, William S. (See Kimble, F. A., and Fox.)
- Foxboro Company, The. (See Fitts, Walter H., assignor.)
- Foye, Cyrus D., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,366,908; Feb. 1; v. 283; p. 5.
- Fraccascia, Frank, and J. Ercolani, Philadelphia, Pa., assignor of one-third to A. Cwik, Camden, N. J. Safety-valve. No. 1,379,092; May 24; v. 286; p. 699.
- Fraidus, Joe, Newark, N. J., assignor to S. Schniper, New York, N. Y. Automobile-radiator. No. 1,400,033; Dec. 13.
- Fraim, E. T., Lock Company. (See Fraim, Samuel R., assignor.)
- Fraim, Samuel R., assignor to The E. T. Fraim Lock Company, Lancaster, Pa. Padlock. No. 1,380,053; May 31; v. 286; p. 956.
- Fraim-Slaymaker Hardware Company. (See Miller, George M., assignor.)
- Frair, Chester, Seattle, Wash. Work-holding stand. No. 1,398,096; Nov. 22.
- Fraleigh, John H., Tiffin, Ohio. Oil-cup. No. 1,376,265; Apr. 26; v. 285; p. 691.
- Fraleigh, Lawrence V., assignor to Brown Portable Conveying Machinery Company, Chicago, Ill. Conveyer. No. 1,366,780; Jan. 25; v. 282; p. 659.
- Frame, Augustus J. (See Ash, T., and Frame.)
- Frame, Horace E., Mount Vernon, N. Y. Rotary tooth-cleaner. No. 1,365,673; Jan. 18; v. 282; p. 398.
- Frame, John, Searsport, Me. Artificial bait. No. 1,393,617; Oct. 11.
- France, Arthur G., London, England. Cotter-pin, lynch-pin, and the like. No. 1,390,609; Sept. 13; v. 290; p. 303.
- Franchot, Richard, Niagara Falls, N. Y., assignor to Ferro Chemicals, Inc., Washington, D. C. Manufacture of gas and cyanides. No. 1,364,838; Jan. 4; v. 282; p. 152.
- Francis, Charles W., assignor to Gillespie Eden Corporation, Paterson, N. J. Making windings. No. 1,396,033; Nov. 8.
- Francis, Charles W., assignor to Gillespie Motor Company, Paterson, N. J. Apparatus for making windings. No. 1,397,755; May 31; v. 286; p. 899.
- Francis, Earl H., Mount Washington, Mo. Film-winding apparatus. No. 1,394,077; Oct. 18.
- Francis, Harold R., Los Angeles, Calif., assignor of one-half to P. W. Francis, Muscatine, Iowa. Cotter-pin. No. 1,379,908; May 31; v. 286; p. 927.



*Alphabetical list of patentees—Continued.*

- Francis, Henry A., Niagara Falls, N. Y. Hook and eye carding device. No. 1,374,071; Apr. 5; v. 285; p. 134.
- Francis, John T., Okanogan, Wash. Saw-setting apparatus. No. 1,377,826; May 10; v. 286; p. 334.
- Francis, Peter W. (See Francis, Harold R., assignor.)
- Francis, Wilber I. (See Black, R., and Francis.)
- Francisco, Marshall E., assignor, by mesne assignments, of one-half to L. W. Darden and A. O. Wilson, Fresno, Calif. Draft-deflector for motor-vehicles. No. 1,380,471; June 7; v. 287; p. 28.
- Frank, Emil J., Philadelphia, Pa. Attachment for knitting-machines. No. 1,372,345; Mar. 22; v. 284; p. 661.
- Frank, Emil J., Philadelphia, Pa. Welt attachment for knitting-machines. No. 1,374,496; Apr. 12; v. 285; p. 257.
- Frank-Philipson, Axel, Chicago, Ill. Producing solidified soluble disinfectant. No. 1,392,564; Oct. 4.
- Frank, Val F., Louisville, Ky. Safety-razor. No. 1,392,753; Oct. 4.
- Frank, Val F., assignor of one-half to E. H. Hinkebein, Louisville, Ky. Railway-tie. No. 1,400,737; Dec. 20.
- Frankkaerts, Emile, San Francisco, Calif. Check-hinge. (Reissue.) No. 15,082; Apr. 12; v. 285; p. 335.
- Frankkaerts, Emile, San Francisco, Calif. Check-hinge. No. 1,393,889; Oct. 18.
- Frankco Co., The. (See Frankco, William J., assignor.)
- Frankce, Ernest A. (See Johanson, P., and Frankce.)
- Frankce, William J., Highland Park, assignor to The Francke Co., New Brunswick, N. J. Uniform-motion universal joint. No. 1,392,754; Oct. 4.
- Frankco, William J., Highland Park, assignor to The Francke Co., New Brunswick, N. J. Flexible coupling. No. 1,392,755; Oct. 4.
- Frankce, William J., assignor to The Francke Co., Highland Park, N. J. Power-transmitting device. No. 1,398,773; Nov. 29.
- Frano, Maurice, New York, N. Y. Weed-puller. No. 1,398,850; Nov. 29.
- Frangois, Albert, Doncaster, England. Filling spaces or cavities which are difficult of access with concrete, cement, or the like. No. 1,391,678; Sept. 27; v. 290; p. 654.
- Francombe, Victory P. (See Sodeau, W. H., and Francombe.)
- Frank, Fred, Dublin, Tex. Wire-stretcher. No. 1,387,374; Aug. 9; v. 289; p. 352.
- Frank, George, deceased, by M. J. Frank, executrix, Titonka, Iowa, Latch. No. 1,395,568; Nov. 1.
- Frank, Harry S., St. Louis, Mo. Piston-ring. No. 1,400,672; Dec. 20.
- Frank, John J., Pittsfield, Mass., assignor to General Electric Company. Electric apparatus. No. 1,376,011; Apr. 26; v. 285; p. 642.
- Frank, Julius E., St. Louis, Mo. Belt. No. 1,392,319; Oct. 4.
- Frank, Louis, Miami, Ariz. Direction-indicator. No. 1,384,248; July 12; v. 288; p. 254.
- Frank, Louis, Miami, Ariz. Direction-indicator. No. 1,384,249; July 12; v. 288; p. 255.
- Frank, Louis, Flushing, assignor to Greenpoint Metallic Bed Company, Brooklyn, N. Y. Bedstead. No. 1,372,130; Mar. 22; v. 284; p. 319.
- Frank, Mary J., executrix. (See Frank, George.)
- Frank, Maurice H., Anthon, Iowa. Mud-hook. No. 1,399,952; Dec. 13.
- Frank, Maxwell C., Piedmont, Calif. Luminous pendant. No. 1,365,976; Jan. 18; v. 282; p. 457.
- Franko, Arthur H., Monticewoc, Wis. Phonograph-operating mechanism. No. 1,386,099; Aug. 2; v. 289; p. 28.
- Franko, Louis E., Washington, D. C. Water-wheel. No. 1,391,730; Sept. 27; v. 290; p. 665.
- Frankel, Adolph, New York, N. Y. Snap-fastener. No. 1,391,250; Sept. 20; v. 290; p. 495.
- Frankel, Mortimer, W. Aisenstein and J. A. Obermaier, assignors to Wilmort Manufacturing Company, Chicago, Ill. Crumb-sweeper. No. 1,371,615; Mar. 15; v. 284; p. 465.
- Frankforter, George B., U. S. Army. Preparation of hydriodic acid. No. 1,380,951; June 7; v. 287; p. 120.
- Franklin Baker Company, The. (See Jones, Herbert C., assignor.)
- Franklin Barn Equipment Company. (See Langer, Rudolph J., assignor.)
- Franklin, Charles H. (See Clark, O. R., and Franklin.)
- Franklin, Charles S., Buckhurst Hill, England, assignor to Radio Corporation of America. Aerial system employed in wireless telegraphy and telephony. No. 1,368,622; Feb. 15; v. 283; p. 445.
- Franklin, Charles S., London, England, assignor, by mesne assignments, to Radio Corporation of America. Aerial conductor for wireless telegraphy. (Reissue.) No. 15,040; Feb. 15; v. 283; p. 517.
- Franklin, Charles S., London, England, assignor, by mesne assignments, to Radio Corporation of America. Aerial conductor for wireless telegraphy. (Reissue.) No. 15,041; Feb. 15; v. 283; p. 517.
- Franklin, Charles S., London, England, assignor to Radio Corporation of America, New York, N. Y. Aerial system for wireless signaling. No. 1,370,735; Mar. 8; v. 284; p. 232.
- Franklin, Clarence E., assignor of one-third to J. W. McDonel and one-third to E. K. Cunningham, Fostoria, Ohio. Railway-torpedo. No. 1,383,614; July 5; v. 288; p. 74.
- Franklin, E. I., & Co. (See Willis, Warren E., assignor.)
- Franklin, Edward J. (See White, J. H., and Franklin.)
- Franklin, Emilen A., Fort Collins, Colo. Tailing-separator. No. 1,374,645; Apr. 12; v. 285; p. 286.
- Franklin, Frederick W. (See Baker, W. W., and Franklin.)
- Franklin, Frederick W., Syracuse, N. Y. Automobile hood clip. No. 1,397,759; Nov. 22.
- Franklin, H. H., Mig. Company. (See Emond, William H., assignor.)
- Franklin, H. H., Manufacturing Company. (See Wilkinson, John, assignor.)
- Franklin, Ira S., Boston, Mass. Loom shuttle-body and making the same. No. 1,372,131; Mar. 22; v. 284; p. 619.
- Franklin, Jacob M., Brooklyn, assignor of one-third to E. Deitz and one-third to A. Deitz, New York, N. Y. Garment-pocket. No. 1,397,729; Nov. 22.
- Franklin, John B., Brockville, Ontario, Canada. Track-weeder. No. 1,394,193; Oct. 18.
- Franklin, Joseph, Smithtown, New South Wales, assignor to The Efficient Gas Power Company, Limited, Sydney, New South Wales, Australia. Suction gas-generator. No. 1,382,074; June 21; v. 287; p. 443.
- Franklin, Robert E., Duquesne, Pa. Valve-cap for high-pressure wells. No. 1,368,623; Feb. 15; v. 283; p. 445.
- Frankman, Olof, Malmö, Sweden. Beet-harvester. No. 1,366,645; Jan. 25; v. 282; p. 633.
- Frankman, Olof, Malmö, Sweden. Motor-driven beet-harvesting machine. No. 1,371,360; Mar. 15; v. 284; p. 414.
- Frankman, Olof, Malmö, Sweden. Motor-driven agricultural machine. No. 1,381,816; June 14; v. 287; p. 335.
- Frankowski, Henryk, Buffalo, and A. Hoffman, Lackawanna, N. Y. Windshield-cleaner. No. 1,399,107; Dec. 6.
- Franks, George, and O. Sproessig, New York, N. Y. Steamer, cleaner, and presser. No. 1,373,879; Apr. 5; v. 285; p. 98.
- Franks, William B., assignor of one-half to G. W. Winders, Tolu, Ky. Grain-drill. No. 1,382,497; June 21; v. 287; p. 524.
- Frantz, Albert D., Battle Creek, Mich. Life-preserver. No. 1,397,248; Nov. 15.
- Frantz, Grover C., Harrisburg, Pa. Kitchen-cabinet. No. 1,375,144; Apr. 19; v. 285; p. 445.
- Frantz Manufacturing Co. (See Martin, Cecil R., assignor.)
- Frantzen, Arthur. (See Hartwig, William G., assignor.)
- Franz, Hector A., Hood River, Oreg. Annunciator. No. 1,393,275; Oct. 11.
- Franz, John W. (See Franz, Louis G., assignor.)
- Franz, John W., assignor of one-half to E. A. Hoffmann, St. Louis, Mo. Grease and oil cup. No. 1,395,406; Nov. 1.
- Franz, Louis G., assignor of one-half to J. W. Franz, St. Louis, Mo. Motorman's stool. No. 1,377,332; May 10; v. 286; p. 239.
- Franzen, Harm, Mabton, Wash. Runner for sickle-bars. No. 1,367,367; Feb. 1; v. 283; p. 97.
- Franzen, Harm, Phoenix, Ariz. Runner for sickle-bars. No. 1,391,181; Sept. 20; v. 290; p. 480.
- Franzen, Henry M., Selma, Calif. Aircraft. No. 1,370,736; Mar. 8; v. 284; p. 232.
- Franzen, Henry M., Los Angeles, Calif. Aeroplane. No. 1,382,772; June 28; v. 287; p. 630.
- Franzen, Julius R., Portland, Oreg. Article of food or confection. No. 1,368,984; Feb. 15; v. 283; p. 514.
- Fraro, John J., Brightwood, Mass. Wrench. No. 1,395,952; Nov. 1.
- Frary, Francis C., Oakmont, Pa., assignor to Aluminum Company of America. Method of and apparatus for annealing sheets of metal. No. 1,377,574; May 10; v. 286; p. 284.
- Fraser, Edwin J., assignor of one-half to S. H. Bingham, Jr., Chicago, Ill. Petcock. No. 1,373,321; Mar. 29; v. 284; p. 894.
- Fraser, George H., New York, N. Y. Ax and similar tool. No. 1,364,269; Jan. 4; v. 282; p. 43.
- Fraser, George H., Brooklyn, N. Y. Drier, cooler, and similar device. No. 1,378,407; May 17; v. 286; p. 496.
- Fraser, George H., Brooklyn, N. Y. Feeder or regulator for screening apparatus. No. 1,384,312; July 12; v. 288; p. 268.
- Fraser, George H., Brooklyn, N. Y. Feed-regulator for screening and other apparatus. No. 1,384,313; July 12; v. 288; p. 268.
- Fraser, George H., Brooklyn, N. Y. Method and apparatus for treating pulverized material. No. 1,385,674; July 26; v. 288; p. 706.
- Fraser, George H., Brooklyn, N. Y. Apparatus for treating pulverized material. No. 1,385,675; July 26; v. 288; p. 706.
- Fraser, Gordon H., et al. (See Kitchen, John G. A., assignor.)
- Fraser, James. (See Speakman, W. A., and Fraser.)
- Fraser, James, Wilmington, Del., assignor to The Geometric Tool Company, New Haven, Conn. Collapsing tap. No. 1,393,995; Oct. 18.
- Fraser, John G., assignor of one-half to G. I. Evans, Hamilton, Ontario, Canada. Door-fastener. No. 1,385,125; July 19; v. 288; p. 518.
- Fraser, John W., Cleveland, Ohio. Electric heating-plug. No. 1,400,354; Dec. 13.



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- Fraser, Iovias F., Shamrock, Okla. Separator. No. 1,390,808; Sept. 13; v. 290; p. 361.
- Fraser, Warren F., Westboro, Mass., assignor, by mesne assignments, to Norton Company, Worcester, Mass. Mechanical movement. (Reissue.) No. 15,190; Sept. 13; v. 290; p. 376.
- Fraser, William A., Brookline, Mass. Collapsible shield. No. 1,385,371; July 26; v. 288; p. 643.
- Frattolillo, Henry, Hobbs Ferry, N. Y. Cushion-heel for shoes. No. 1,391,885; Sept. 27; v. 290; p. 696.
- Fratt, Harry C., Norristown, Pa. Refrigerator. No. 1,367,368; Feb. 1; v. 283; p. 97.
- Frattola, Enrico, V. E. Castelli, and R. Regnoni, Rome, Italy. Telegraphic system. No. 1,395,953; Nov. 1.
- Franchini, Joseph A., Zelenople, assignor to American Flexible Bolt Company, Pittsburgh, Pa. Staybolt and making same. No. 1,372,875; Mar. 29; v. 284; p. 805.
- Frauenheim, Joseph A., and H. Etheridge, Zelenople, assignors to American Flexible Bolt Company, Pittsburgh, Pa. Rail-bond. No. 1,377,246; May 10; v. 286; p. 222.
- Frägnick, Edward E., Elgin, Ill. Kitchen utensil. No. 1,388,664; Aug. 23; v. 289; p. 719.
- Frawley, John J., Stillwater, Minn. Quick-steering mechanism for agricultural and other wheeled machines. No. 1,385,562; Aug. 2; v. 289; p. 116.
- Frawley, William E., Jr., Birmingham, Ala. Twyer. No. 1,390,694; Sept. 13; v. 290; p. 320.
- Frayer, Lee A. (See Montefeb, J. C. and Frayer.)
- Frazer, Mrs. M. (See Kohlbruss, Jacob A., assignor.)
- Frazer, Robert A., and L. F. G. Simmons, Teddington, England. Mooring for airships and the like. No. 1,378,341; May 17; v. 286; p. 483.
- Frazier, Chauncey E., Washington, Pa. Decorating or annealing oven. No. 1,389,583; Sept. 6; v. 290; p. 5.
- Frazier, David G., University, Mo. Dispensing apparatus. No. 1,395,407; Nov. 1.
- Frazier, Truman D., Martins Ferry, Ohio. Pneumatic tire. No. 1,383,458; July 5; v. 288; p. 42.
- Frazier, William L., Boise, Idaho. Diabetes remedy. No. 1,384,444; July 12; v. 288; p. 295.
- Frazier, William L., Boise, Idaho. Diabetes remedy. No. 1,384,445; July 12; v. 288; p. 295.
- Frazier, William R. (See Hammett, C. W., and Frazier.)
- Frazier, William R. (See Marks, H. E., and Frazier.)
- Frear, Hugo P., assignor to Bethlehem Shipbuilding Corporation Ltd., Bethlehem, Pa. Bulk-cargo carrier. No. 1,391,946; Sept. 27; v. 290; p. 709.
- Freborg, Charles, Kankakee, assignor to Price & Teeple Piano Company, Chicago, Ill. Governor for player-pianos. No. 1,381,911; June 21; v. 287; p. 414.
- Freborg, Charles, Kankakee, assignor to Price & Teeple Piano Company, Chicago, Ill. Automatic expression-controlling device. No. 1,383,920; July 5; v. 288; p. 137.
- Freborg, Charles, Kankakee, assignor to Price & Teeple Piano Company, Chicago, Ill. Motor-mounting for player-pianos. No. 1,385,819; July 26; v. 288; p. 735.
- Frechette, Alfred G. and J. S. Barton, Vt. Automobile-lamp-turning apparatus. No. 1,370,957; Mar. 8; v. 284; p. 274.
- Frechette, John S. (See Frechette, Alfred G. and J. S.)
- Frechette, Joseph E., and L. Hachez, Lowell, Mass. Picture-frame. No. 1,394,675; Oct. 25.
- Frecheville, George, London, England. Electrically-operated horn for motor-vehicles. No. 1,373,496; Apr. 5; v. 285; p. 23.
- Freda, Theophil J., Detroit, Mich. Excavator. No. 1,380,790; June 7; v. 287; p. 89.
- Fredd, Oscar M., Hancock, Mich. Vulcanizer. No. 1,373,807; Apr. 5; v. 285; p. 83.
- Fredd, Oscar M., Hancock, Mich. Vulcanizing-mold. No. 1,376,196; Apr. 26; v. 285; p. 677.
- Fredel, Michael M., Brooklyn, and W. Bosanko, Richmond Hill, N. Y. Agitator. No. 1,383,921; July 5; v. 288; p. 137.
- Frederick, Carl L., Shannon, Ill. Postage-stamp affixer. No. 1,371,677; Mar. 15; v. 284; p. 477.
- Frederick, Charles W., assignor to Eastman Kodak Company, Rochester, N. Y. Focusing lens-mount and assembling same. No. 1,394,078; Oct. 18.
- Frederick, Charles W., and R. S. Hopkins, assignors to Eastman Kodak Company, Rochester, N. Y. Diffusing element. No. 1,370,885; Mar. 8; v. 284; p. 260.
- Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Variable-pitch propeller. No. 1,365,314; Jan. 11; v. 282; p. 288.
- Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Propeller and making the same. No. 1,367,131; Feb. 1; v. 283; p. 49.
- Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Variable-pitch propeller. No. 1,367,132; Feb. 1; v. 283; p. 50.
- Frederick, Louis T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heat-regulating attachment for tube-machines. No. 1,400,043; Dec. 13.
- Frederick, William H., Earleigh Heights, Md. Hatpin. No. 1,386,328; Aug. 2; v. 289; p. 73.
- Frederick, William J., et al. (See Fuller, Clarence C., assignor.)
- Fredricks, Harry A., Port Angeles, Wash. Donkey-engine crane. No. 1,380,292; May 31; v. 286; p. 1000.
- Fredricks, Charles, Brooklyn, N. Y. Fishing-tackle. No. 1,394,616; Oct. 25.
- Fredricks, John, Kings Bridge, assignor to Western Electric Company, Incorporated, New York, N. Y. Test-connector. No. 1,387,252; Aug. 9; v. 289; p. 326.
- Fredriksen, Christian, Croydon, near Sydney, New South Wales, Australia. Spring suspension for automobiles. No. 1,394,724; Oct. 25.
- Fredriksen, Edward, Christiania, Norway. Electric fluid-heating apparatus. No. 1,385,441; July 26; v. 288; p. 657.
- Fredrikson, Carl F., assignor to H. S. Mills, Chicago, Ill. Arranging music. No. 1,370,202; Mar. 1; v. 284; p. 84.
- Fredriksson, John, Elizabeth, N. J., assignor to The Kalbfleisch Corporation, New York, N. Y. Producing highly-concentrated hydrochloric acid. No. 1,398,224; Nov. 29.
- Fredriksstad Elektrokemiske Fabriker A/S. (See Langhard, Johann K., assignor.)
- Free, John W., Woodlawn, assignor to Jones & Laughlin Steel Company, Pittsburgh, Pa. Mill for cold-rolling skelp. No. 1,374,145; Apr. 5; v. 285; p. 148.
- Free, John W., Woodlawn, assignor to Jones & Laughlin Steel Company, Pittsburgh, Pa. Bending skelp. No. 1,374,146; Apr. 5; v. 285; p. 148.
- Free, John W., Woodlawn, assignor to Jones & Laughlin Steel Company, Pittsburgh, Pa. Means for stacking sheet material. No. 1,389,244; Aug. 30; v. 289; p. 886.
- Free Sewing Machine Company. (See Durkee, Dwight M., assignor.)
- Freeberg, John, Brooklyn, N. Y. Drop-light adjuster. No. 1,379,093; May 24; v. 286; p. 700.
- Freeborn, James E. (See Richards, G., Burt, and Freeborn.)
- Freeburger, Frank Q., Portland, Oreg. Automatic popcorn popping and dispensing machine. No. 1,364,430; Jan. 4; v. 282; p. 74.
- Freed, Tilghman A. (See Leitch, James T., assignor.)
- Freedline, David, Brooklyn, N. Y. Hat stretcher and shaper. No. 1,380,201; May 31; v. 286; p. 983.
- Freedline, David, Brooklyn, N. Y. Hat-conformator. No. 1,383,922; July 5; v. 288; p. 137.
- Freedline, David, Brooklyn, N. Y. Condiment-holder. No. 1,389,443; Aug. 30; v. 289; p. 926.
- Freeland, Harry M., Kansas City, Kans. Combination baby-buggy and cradle. No. 1,370,958; Mar. 8; v. 284; p. 274.
- Freeman, Albert, Moline, Ill. Vegetable and fruit receptacle. No. 1,366,781; Jan. 25; v. 282; p. 660.
- Freeman, Allie M., Helena, Mont. Curtain-holder. No. 1,381,817; June 14; v. 287; p. 335.
- Freeman, Arthur J., Petaluma, assignor, by mesne assignments, of one-half to E. G. Lewis, Atascadero, Calif. Sheet-feeding mechanism. No. 1,373,187; Mar. 29; v. 284; p. 868.
- Freeman-Daughaday Company. (See Le Clair, Frank J., assignor.)
- Freeman-Daughaday Co. (See McClellan, William J., assignor.)
- Freeman, E. H., Electric Company. (See Freeman, Edgar H., assignor.)
- Freeman, Edgar H., assignor to E. H. Freeman Electric Company, Trenton, N. J. Facile assembly for lamp-sockets. No. 1,369,645; Feb. 22; v. 283; p. 683.
- Freeman, Edgar H., Trenton, N. J., assignor to E. H. Freeman Electric Company. Screw-shell-contact mounting for attachment-plugs. No. 1,373,127; Mar. 29; v. 284; p. 855.
- Freeman, Harry S., Detroit, and F. Zenker, Highland Park, assignors to Square D Company, Detroit, Mich. Electric switch. No. 1,400,279; Dec. 13.
- Freeman, Harry S., Detroit, and F. Zenker, Highland Park, assignors to Square D Company, Detroit, Mich. Electric switch. No. 1,400,280; Dec. 13.
- Freeman, Harry S., Detroit, and F. Zenker, Highland Park, assignors to Square D Company, Detroit, Mich. Electric switch. No. 1,400,281; Dec. 13.
- Freeman, Irving M., Fayetteville, Ark. Dustpan. No. 1,376,012; Apr. 26; v. 285; p. 642.
- Freeman, James M. (See Freeman, William R. and J. M.)
- Freeman, John, Glenwood, Iowa. Calf-weaner. No. 1,372,806; Mar. 29; v. 284; p. 791.
- Freeman, John, assignor to Save-A-Room Furniture Manufacturing Company, Inc., New York, N. Y. Couch-bed. No. 1,381,292; June 14; v. 287; p. 236.
- Freeman, John, assignor to Save-A-Room Furniture Manufacturing Company, Inc., New York, N. Y. Convertible furniture. No. 1,381,293; June 14; v. 287; p. 237.
- Freeman, Joseph W., Columbus, Ohio. Farm-tractor. No. 1,372,068; Mar. 22; v. 284; p. 607.
- Freeman, Louis G. (See Gowdy, W. B., and Freeman.)
- Freeman, Lowell C. (See Dunham, G. W., and Freeman.)
- Freeman, Robert M., Fremont, Nebr. Soil-loosening device. No. 1,386,171; Aug. 2; v. 289; p. 42.
- Freeman, Roe S., Atlanta, Ga. Tire-rack. No. 1,378,778; May 17; v. 286; p. 568.
- Freeman, Thomas H., Lynch Mines, Ky. Horseshoe. No. 1,378,779; May 17; v. 286; p. 568.
- Freeman, Walter B. (See Kohler, C. W., Hoffman, and Freeman.)
- Freeman, Walter B., Cuyahoga Falls, Ohio, assignor to R. F. Goodrich Company, New York, N. Y. Cutting-die. No. 1,390,117; Sept. 6; v. 290; p. 113.



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- Freeman, Walter F., Springfield, Mass. Trolley-harp extension. No. 1,383,796; July 5; v. 288; p. 112.
- Freeman, Walter F., Springfield, Mass. Trolley-shoe. No. 1,383,797; July 5; v. 288; p. 112.
- Freeman, Wayland L., Spring Valley, Minn. Trap-spring. No. 1,366,375; Jan. 25; v. 282; p. 578.
- Freeman, William E. and J. M., Washoe, Mont. Clevis. No. 1,392,138; Sept. 27; v. 290; p. 748.
- Freer, James S., Rutherford, N. J. Method and apparatus for preparing photoengraving-plates. No. 1,373,658; Apr. 5; v. 285; p. 54.
- Freese, Charles W. (See Ackerman, F. and Freese.)
- Freese, August, Danzig, assignor to Society "Freese Patent" Eisenschutz und Schraubenwellenbekleidung für Schiffe G. m. b. H., Charlottenburg, Germany. Coating of ship screw-shafts. No. 1,385,911; July 26; v. 288; p. 753.
- Freese, Carl J., Elyria, Ohio. Bag. No. 1,400,355; Dec. 13.
- Freese, Herman W., assignor to H. A. Parkyn, Chicago, Ill. Automatic electrical cut-out. No. 1,373,128; Mar. 29; v. 284; p. 855.
- Freese, Hugo, Genesee, N. Y. Pad or mat. No. 1,395,227; Oct. 25.
- Freetz, Elisha C., St. Louis, Mo. Radiator-hood. No. 1,391,468; Sept. 20; v. 290; p. 539.
- Freeze, Green, assignor of one-half to J. Draper, Clifford, Ill. Automatic railway-switch. No. 1,366,782; Jan. 25; v. 282; p. 660.
- Freeze, John A., Sayreville, N. J., assignor of one-half to R. Rumper, New York, N. Y. Automobile-switch. No. 1,381,409; June 14; v. 287; p. 258.
- Fregly, Alphonso F. (See Jerruss, J., and Fregly.)
- Fregonara, Charles, Lyon, France. Removable construction. No. 1,393,996; Oct. 18.
- Frei, Fritz, Berne, Switzerland. Electric heating device for plunging. No. 1,401,686; Dec. 27.
- Freihofer, Charles, Philadelphia, Pa. Vehicle-spring. No. 1,387,375; Aug. 9; v. 289; p. 353.
- Freitag, Herbert R., and C., Jr., and A. Hintz, Max, N. D. Dirigible headlight. No. 1,388,108; Aug. 16; v. 289; p. 549.
- Freitag, John, Niota, Ill. Draft-equalizer. No. 1,370,203; Mar. 1; v. 284; p. 84.
- Freitag, Richard H. (See Bush, A. A., and Freitag.)
- Freitas, Antone, Lehaia, Maui, Hawaii. Projectile. No. 1,373,322; Mar. 29; v. 284; p. 894.
- Frely, Pierre. (See Armagnat, H., and Frely.)
- French, Alfred W., Piqua, Ohio. Expressing-press. No. 1,387,700; Aug. 16; v. 289; p. 468.
- French Battery & Carbon Co. (See Balderston, William, assignor.)
- French Battery & Carbon Co. (See Graves, John, assignor.)
- French Battery & Carbon Co. (See Ruhoff, Otto E., assignor.)
- French Battery & Carbon Co. (See Weiss, Joseph W., assignor.)
- French, Charles E. (See Gunn, George H., assignor.)
- French, Charles L., deceased, Cambridge, Mass.; J. B. French, administratrix, assignor to Standard Oil Company of New York, New York, N. Y. Pipe-fitting. No. 1,377,878; May 10; v. 286; p. 344.
- French, Charles M., Seymour, Conn. Igniter. No. 1,393,487; Oct. 18.
- French, Edward H., Kingsport, Tenn. Fractionally distilling mixtures containing hydrocarbons. No. 1,394,488; Oct. 18.
- French, Emma V., Hoopeston, Ill. Street-sweeper. No. 1,371,885; Mar. 15; v. 284; p. 516.
- French, Frank H., Preston, Iowa. Mop or brush. No. 1,386,100; Aug. 2; v. 289; p. 28.
- French, Frank H., Preston, Iowa. Tandem disk harrow. No. 1,386,858; Aug. 9; v. 289; p. 249.
- French, Frank H., Preston, Iowa. Tandem disk harrow. No. 1,399,607; Dec. 6.
- French, Harry C., Cleveland, Ohio. Bookmark. No. 1,385,991; Aug. 2; v. 289; p. 5.
- French, Harry F. (See Benner, R. C., and French.)
- French, Harry F., and R. C. Benner, Fremont, Ohio, assignor by mesne assignments, to National Carbon Company, Inc. Electric battery. No. 1,390,524; Sept. 13; v. 290; p. 285.
- French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,374,727; Apr. 12; v. 285; p. 302.
- French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,382,968; June 28; v. 287; p. 667.
- French, Henry G., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,397,276; Nov. 15.
- French, James C., Kenosha, Wis., assignor to F. C. Austin, Chicago, Ill. Trenching-machine. No. 1,377,333; May 10; v. 286; p. 239.
- French, James C., assignor to F. C. Austin, Chicago, Ill. Multipedal tractor. No. 1,388,637; Aug. 23; v. 289; p. 710.
- French, James C., assignor to F. C. Austin, Chicago, Ill. Traction-engine. No. 1,393,519; Oct. 11.
- French, James R., Rock Island, Ill. Engine piston-ring. No. 1,367,468; Feb. 1; v. 283; p. 117.
- French, Jennie B., administratrix. (See French, Charles L.)
- French, Joseph H., Peterboro, Ontario, Canada. Dental casting-machine. No. 1,400,044; Dec. 13.
- French, Lindol, East Pepperell, Mass. Electrically-heated appliance. No. 1,378,850; May 24; v. 286; p. 654.
- French, Louis O., Milwaukee, Wis. Internal-combustion engine. No. 1,381,294; June 14; v. 287; p. 237.
- French, Thomas H., Pacific Grove, Calif. Sealed container. No. 1,394,545; Oct. 25.
- French, William H., Detroit, Mich. Propulsion means for vehicles. No. 1,392,565; Oct. 4.
- Frenier, Albert B., Chicago, Ill. Temperature-producing mechanism and controlling means therefor. No. 1,379,008; May 24; v. 283; p. 681.
- Frendorf, Herman R., Kimberly, Wis. Gun-sight. No. 1,376,089; Apr. 26; v. 285; p. 657.
- Freres, John G. (See Fetzler, W., Freres, and Elliott.)
- Freret, Arthur L., Ensley, Ala. Trolley-clamp. No. 1,399,857; Dec. 13.
- Fresca, C. A., & Sohn. (See Pechstein, Fritz, assignor.)
- Frosk, Per A., Robertsfors, Sweden. Barkings-machine. No. 1,375,374; Apr. 19; v. 285; p. 488.
- Freter, Theodore H., Chicago, Ill. Washing and sterilizing apparatus. No. 1,388,249; Aug. 23; v. 289; p. 634.
- Fretter, Nathan F., Cleveland, Ohio. Machine for cutting bar-stock. No. 1,366,783; Jan. 25; v. 282; p. 660.
- Fretter, Nathan F., Cleveland, Ohio. Turret-lathe. No. 1,398,225; Nov. 29.
- Frotter, Nathan F., Cleveland, Ohio. Lathe. No. 1,398,226; Nov. 29.
- Freud, Bernard. (See Rogowski, Edmund, assignor.)
- Freudenberg, William, Enterprise, Oreg. Gate for irrigating-ditches. No. 1,378,342; May 17; v. 286; p. 483.
- Freund, Carl E., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Airplane-wing structure. No. 1,364,431; Jan. 4; v. 282; p. 75.
- Freund, Joseph A., Newtonville, Mass. Making watch-plates. No. 1,392,007; Sept. 27; v. 290; p. 722.
- Freund, Joseph A., Newtonville, Mass. Watch. No. 1,392,006; Sept. 27; v. 290; p. 722.
- Freund, Joseph A., Newtonville, Mass., assignor to Keystone Watch Case Company, Philadelphia, Pa. Stem winding and setting device. No. 1,378,408; May 17; v. 286; p. 496.
- Freund, Louis L., Spokane, Wash. Carrier. No. 1,374,372; Apr. 12; v. 285; p. 233.
- Freund, Louis L., assignor of one-half to J. L. Sauchereau, Spokane, Wash. Pipe-coupling. No. 1,372,876; Mar. 29; v. 284; p. 806.
- Freund, Samuel, Chicago, Ill. Folding box. No. 1,383,714; July 5; v. 288; p. 95.
- Freund, Theodore J., Chicago, Ill. Punch. No. 1,369,234; Feb. 22; v. 283; p. 603.
- Frey, Albert, Basel, Switzerland, assignor to The Hoffmann-La Roche Chemical Works, New York, N. Y. Manufacture of metal pyrophosphate casein compounds colloidal soluble in dilute alkaline solutions. No. 1,381,295; June 14; v. 287; p. 237.
- Frey, Albert E., assignor to Essex Motors, Detroit, Mich. Spring suspension. No. 1,396,365; Nov. 8.
- Frey, Charles P., assignor to Brown Instrument Co., Philadelphia, Pa. Electro valve mechanism. No. 1,384,443; July 12; v. 288; p. 295.
- Frey, Ernst, Chur, Switzerland. Block-press. No. 1,399,338; Dec. 6.
- Frey, George P., and V. S. Knopp, Parkersburg, W. Va. Fruit-picker. No. 1,368,496; Feb. 15; v. 283; p. 421.
- Frey, Hannah H., administratrix. (See Frey, Herbert H.)
- Frey, Harvey B., Reading, Pa. Auxiliary brake for motor-vehicles. No. 1,401,597; Dec. 27.
- Frey, Herbert H., deceased; H. H. Frey, administratrix, Chicago, Ill. Level-indicating apparatus. No. 1,399,205; Dec. 6.
- Frey, Herman A., Savoy, Ill. Horseshoe. No. 1,386,613; Aug. 9; v. 289; p. 199.
- Frey, Sigmund, assignor to Woolwine Metal Products Company, Los Angeles, Calif. Canteen-holder. No. 1,382,969; June 28; v. 287; p. 667.
- Frey, Theodore J. (See Niedergang, C., Stenger, and Frey.)
- Frey, William P., Buffalo, N. Y. Driving-axle construction. No. 1,400,949; Dec. 20.
- Freydberg Brothers. (See Feinstein, Samuel, assignor.)
- Freyder, Frank X., Iowa City, Iowa. Combination-tool. No. 1,395,323; Nov. 29.
- Freydig, Arturo. (See Velasco, José R., assignor.)
- Freynt, Brassert & Company. (See Willcox, Frederick H., assignor.)
- Freynt and Company. (See Ives, Edward L., assignor.)
- Freyssinet, Eugene, assignor to Societe Des Navires en Ciment Armé, Paris, France. Reinforced concrete. No. 1,389,942; Sept. 6; v. 290; p. 78.
- Friar, Edward, assignor of one-half to J. P. Craig, Hope, R. I. Picker-check. No. 1,389,823; Sept. 6; v. 290; p. 53.
- Frick, D Roy, Richland, Mo. Toy horse. No. 1,385,320; July 19; v. 288; p. 556.
- Frick, Frederick, Waynesboro, Pa. Secondary electric clock. No. 1,388,458; Aug. 23; v. 289; p. 677.



*Alphabetical list of patentees—Continued.*

- Frick, John, Philadelphia, Pa., assignor to American Automatic Soda Fountain Company, Charlotte, N. C. Liquid-dispensing apparatus. No. 1,366,529; Jan. 25; v. 282; p. 609.
- Frick, Orlando C., assignor to Smalley Manufacturing Company, Manitowoc, Wis. Commutating attachment for feed-cutters. No. 1,394,725; Oct. 25.
- Frick, Robert, Chicago, Ill. Oilier. No. 1,377,195; May 10; v. 286; p. 211.
- Frick, Robert, Chicago, Ill. Oilier. No. 1,394,991; Oct. 25.
- Frick, William, assignor to Cliff Manufacturing Works, Inc., New York, N. Y. Tone-arm for phonographs. No. 1,384,015; July 5; v. 288; p. 157.
- Frick, William J. (See Simmons, P. S., and Frick.)
- Fricotel, Joseph J. M., and J. J. Herrburger, Paris, France. Wind-chest for mechanical piano-players. No. 1,367,543; Feb. 8; v. 283; p. 189.
- Friction Car Stop Company, The. (See Duffy, James U., assignor.)
- Fridan, Thomas P. (See Smith, Adoniram J., assignor.)
- Friden, Carl M. F., Piedmont, assignor to Marchant Calculating Machine Company, Oakland, Calif. Calculating machine. No. 1,379,009; May 24; v. 286; p. 684.
- Friedrich, Louis E., assignor to La Société Ferdinand Gros et Bouchardy, Paris, France. The production of cyanamids. No. 1,371,616; Mar. 15; v. 284; p. 465.
- Fridgen, Michael A., Vining, Minn. Chain-fastener. No. 1,389,498; Aug. 30; v. 289; p. 936.
- Fridrichsen, Peter C. C., Wheeling, W. Va. Insulator. No. 1,390,118; Sept. 6; v. 290; p. 113.
- Fried, John, Peoria, Ill. License-tag holder. No. 1,397,730; Nov. 22.
- Fried, Julius, New York, N. Y. Dental apparatus. No. 1,390,354; Sept. 13; v. 290; p. 251.
- Fried, Julius, New York, N. Y. Identification of plates and films. No. 1,396,415; Nov. 8.
- Fried, Krupp Aktiengesellschaft. (See Akemann, Walther, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Bartholdy, Max, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Becker, Julius, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Borminghaus, Franz, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Bruhn, Gustav A., assignor.)
- Fried, Krupp Aktiengesellschaft. (See Everken, Hermann, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Finckh, Fritz, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Förster, Rudolf, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Hagelloch, Georg, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Haller, Kurth, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Kästner, A., and Stratomeyer, assignors.)
- Fried, Krupp Aktiengesellschaft. (See Klobe, Werner, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Pohl, Wilhelm, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Rys, Albert, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Schläfer, Valentin, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Schleth, Frederick, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Schmidt, Leopold, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Schürmann, R., and Schmidt, assignors.)
- Fried, Krupp Aktiengesellschaft. (See Schurmann, Richard, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Sundhausen, Hermann, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Thiel, Heinrich, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Thun, Hermann, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Vollmer, John, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Von Appen, August, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Wieser, Karl, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Wittig, Wilhelm, assignor.)
- Fried, Krupp Aktiengesellschaft Germaniawerft. (See Regenbogen, Conrad, assignor.)
- Fried, Krupp Aktiengesellschaft Germaniawerft. (See Lage, Ernst, assignor.)
- Fried, Krupp Aktiengesellschaft Germaniawerft. (See Tüllmann, Max, assignor.)
- Friedberger-Aaron Manufacturing Company. (See Goldsmith, Edwin M., assignor.)
- Frieden, Bruno P., Hamburg, Germany. Surgical truss. No. 1,387,774; Aug. 16; v. 289; p. 484.
- Friedrich, Ernst, Berlin, Germany, assignor to General Electric Company. Inclosed-arc device and starting the same. No. 1,393,520; Oct. 11.
- Friedley-Voshardt Co. (See Voshardt, Herman F., assignor.)
- Friedline, William H., Meyersdale, assignor to Modernola Company, Johnstown, Pa. Phonograph construction and illumination. No. 1,369,735; Feb. 22; v. 283; p. 701.
- Friedline, William H., Meyersdale, assignor to Modernola Company, Johnstown, Pa. Cabinet. No. 1,376,266; Apr. 26; v. 285; p. 691.
- Friedman, Benjamin. (See Reis, J. M., and Friedman.)
- Friedman, Bernard. (See Friedman, Samuel and B.)
- Friedman, Edward I., Chicago, Ill. Cord-polishing machine and the like. No. 1,387,045; Aug. 9; v. 289; p. 287.
- Friedman, Jacob, New York, N. Y. Making soluble chocolate. No. 1,364,192; Jan. 4; v. 282; p. 28.
- Friedman, Jacob, New York, N. Y. Preparing cereal food. No. 1,393,997; Oct. 18.
- Friedman, Louis, New York, N. Y. Trousers and pants. No. 1,396,181; Nov. 8.
- Friedman, Louis, New York, N. Y. Printing-press. No. 1,396,182; Nov. 8.
- Friedman, Louis, New York, N. Y. Multicolor-press. No. 1,396,827; Nov. 15.
- Friedman, Samuel and B., Brooklyn and New York, N. Y. Skin-stretcher. No. 1,365,031; Jan. 11; v. 282; p. 235.
- Friedrich, Edward J., Minneapolis, Minn. Clutch-pedal lock for automobiles. No. 1,388,149; Aug. 16; v. 289; p. 557.
- Friedrichs, Frank. (See Trump, E. N., and Friedrichs.)
- Friel, Claude L., Chicago, Ill., assignor of one-third to L. Friel, Los Angeles, Calif., and one-third to G. Friel, Chicago, Ill. Printing-press. No. 1,370,421; Mar. 1; v. 284; p. 126.
- Friel, Grant, et al. (See Friel, Claude L., assignor.)
- Friel, Legrand, et al. (See Friel, Claude L., assignor.)
- Frieman, Jacob G., Chicago, Ill. Vehicle-signal. No. 1,399,339; Dec. 6.
- Friend, Jacob J., Everett, Mass. Caster. No. 1,380,054; May 31; v. 286; p. 956.
- Friend, Jacob J., Everett, Mass. Caster. No. 1,383,396; July 5; v. 288; p. 29.
- Friend, Joseph F. and P. R., Kenosha, Wis. Vaporizer. No. 1,378,780; May 17; v. 286; p. 568.
- Friend, Peter R. (See Friend, Joseph F. and P. R.)
- Friend, Richard N., Sioux City, Iowa. Flash-light support. No. 1,367,369; Feb. 1; v. 283; p. 97.
- Friend, William N., Oakland, Calif. Paper-dispenser. No. 1,379,756; May 31; v. 286; p. 899.
- Friendly, Herbert M., Portland, Oreg. Toll-telephone switching apparatus. No. 1,370,800; Mar. 1; v. 284; p. 103.
- Friendly, Herbert M., and A. E. Burns, Portland, Oreg.; said Burns assignor to said Friendly. Toll-telephone switching apparatus. No. 1,394,723; Oct. 25.
- Frier, Victor H., Wakonda, S. D. Post-puller. No. 1,373,609; Apr. 5; v. 285; p. 44.
- Friermood, Charles L. (See Pfeifer, John, assignor.)
- Frierson, Jesse, Atlantic City, N. J. Scarfin-guard. No. 1,364,742; Jan. 4; v. 282; p. 134.
- Fries, Charles H., Chicago, Ill. Tool. No. 1,375,088; Apr. 19; v. 285; p. 434.
- Fries, Chris, Perth Amboy, N. J., and H. W. Fisher, Huguenot Park, N. Y. Thermostatic control for steam-generators. No. 1,384,995; July 19; v. 288; p. 491.
- Fries, Howard J., Tacoma, Wash. Double-exposure and blank-film preventing device for cameras. No. 1,400,872; Dec. 20.
- Fries, Joens E., Birmingham, Ala. Rotor for squirrel-cage induction-motors and securing the winding thereto. No. 1,371,233; Mar. 15; v. 284; p. 388.
- Friese-Greene, William, London, England. Panchromatic sensitizing composition. No. 1,383,620; July 5; v. 288; p. 75.
- Friese-Greene, William, assignor to Colour Photography Limited, London, England. Color photography. No. 1,383,460; July 5; v. 288; p. 42.
- Friese-Greene, William, assignor to Colour Photography Limited, London, England. Color photography. No. 1,391,310; Sept. 20; v. 290; p. 507.
- Friestedt, Sven H. (See Meade, W. H., and Friestedt.)
- Frigerio, Robert, et al. (See Pluderi, Eraldo, assignor.)
- Frings, Casper, Richmond, Minn. Lug mechanism. No. 1,372,346; Mar. 22; v. 284; p. 661.
- Frink, Gerald, Seattle, Wash. High-lead block. No. 1,381,410; June 14; v. 287; p. 259.
- Frink, Gerald, Seattle, Wash. Cableway-operating engine. No. 1,395,673; Nov. 1.
- Frins, Maximilian C., assignor to International Motor Company, New York, N. Y. Speed-change mechanism. No. 1,375,216; Apr. 19; v. 285; p. 459.
- Frins, Maximilian C., assignor to International Motor Company, New York, N. Y. Shifter-fork plunger. No. 1,378,222; May 17; v. 286; p. 461.
- Frins, Maximilian C., assignor to International Motor Company, New York, N. Y. Final drive for motor-vehicles. No. 1,386,614; Aug. 9; v. 289; p. 200.
- Frisbee, Arthur A., et al. (See Minnick, William H., assignor.)
- Frisbee, Franklin S. (See Frisbee, Gladys R. and F. S.)
- Frisbee, Gladys R. and F. S., Cambridge, Mass. Game. No. 1,383,794; July 5; v. 288; p. 112.



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- Frisbie, Nelson D., assignor of one-half to W. E. Sewell, Detroit, Mich. Holder for soft collars. No. 1,382,970; June 28; v. 287; p. 668.
- Frisbie, Ray A., and G. Baty, Brooklyn, N. Y. Stylus or needle for phonographs and means for regulating the same. No. 1,367,956; Feb. 8; v. 283; p. 268.
- Frisbie, William J., assignor to Justrice Manufacturing Company, Chicago, Ill. Oil-cup. No. 1,389,640; Sept. 6; v. 290; p. 16.
- Frisby, Daniel B., Dumont, Iowa. Harrow-cart. No. 1,385,535; July 26; v. 288; p. 677.
- Frischmann, Nicholas, St. Francis, Wis. Cement building. No. 1,375,788; Apr. 26; v. 285; p. 599.
- Frisco, Charles N., Pittsburgh, Pa. Antiskid device. No. 1,396,567; Nov. 8.
- Frisk, Gust A. (See Hayter, W. O., and Frisk.)
- Friss, John M., Racine, Wis. Storage battery. No. 1,366,070; Jan. 18; v. 282; p. 476.
- Frist, Archie C., Long Beach, Calif. Motion-picture projection-machine shutter. No. 1,375,375; Apr. 19; v. 285; p. 489.
- Fritch, James E., Cody, Nebr. Fur-stretcher. No. 1,383,923; July 5; v. 288; p. 138.
- Fritchle, Oliver P., Denver, Colo. Current-generating plant. No. 1,391,377; Sept. 20; v. 290; p. 520.
- Fritsch, Joseph, Sedro Woolley, Wash. Rat or animal trap. No. 1,392,008; Sept. 27; v. 290; p. 723.
- Fritsche, John, Philadelphia, Pa. Dispensing-cabinet. No. 1,367,033; Feb. 1; v. 283; p. 30.
- Fritts, Francis M., Coffeyville, Kans., assignor of one-third to T. Scott, Tulsa, Okla. Computing-scale beam. No. 1,371,780; Mar. 15; v. 284; p. 496.
- Fritz, Adolf, Magdeburg, Germany. Device for automatically stopping trains. No. 1,383,198; June 28; v. 287; p. 711.
- Fritz, Axel, Everett, Mass. Cattle-stanchion. No. 1,396,034; Nov. 8.
- Fritz, Charles, Baltimore, Md. Nut-lock. No. 1,390,775; Sept. 13; v. 290; p. 336.
- Fritz, Edward W. (See Fritz, George E., and E. W.)
- Fritz, George E., and E. W., Glen Mills, Pa. Automobile starting-crank. No. 1,364,270; Jan. 4; v. 282; p. 44.
- Fritz, John H., Kansas City, assignor to J. R. Green, Jasper county, Mo. Mixing device for explosive-engines. No. 1,394,820; Oct. 25.
- Fritz, Otto R., assignor of one-half to V. A. Anderson, Torrington, Conn. Pipe. No. 1,366,071; Jan. 18; v. 282; p. 475.
- Fritz, Perry E., Los Angeles, Calif. Shim. No. 1,391,886; Sept. 27; v. 290; p. 696.
- Fritz, Robert C., assignor to Firm of "Invenit," G. M. B. H., Kassel, Germany. Hat-fastener. No. 1,376,930; May 3; v. 286; p. 105.
- Fritz, William C., Milwaukee, Wis. Incubator. No. 1,392,566; Oct. 4.
- Fritzsch, George H., assignor to Taplex Corporation, Brooklyn, N. Y. Auto-radiator heater. No. 1,377,621; May 10; v. 286; p. 293.
- Friz, Max, Milbertshofen, near Munich, assignor to Bayerische Motoren Werke, Aktiengesellschaft, Munich, Bavaria, Germany. Arrangement for resilient power transmission. No. 1,375,688; Apr. 26; v. 285; p. 581.
- Froberg, Olof, Benton Harbor, Mich. Automobile-radiator. No. 1,389,749; Sept. 6; v. 290; p. 38.
- Froehlich, Harry T., Philadelphia, Pa., assignor, by mesne assignments, to C. F. Stauffen, Baltimore, Md. Scrap-bunching machine. No. 1,374,441; Apr. 12; v. 285; p. 247.
- Froelich, John, assignor to L. S. Hackney, St. Paul, Minn. Circular radiator. No. 1,390,899; Sept. 13; v. 290; p. 361.
- Frog Switch & Manufacturing Company, The. (See Betchkaw, James F., assignor.)
- Froger, Louis V. W., Lorient, France. Cable arrangement for towing. No. 1,378,102; May 17; v. 286; p. 438.
- Frohman, Edward D., Pittsburgh, Pa. Refractory material. No. 1,372,016; Mar. 22; v. 284; p. 598.
- Frohmuth, William J., and D. E. Cohagen, Fort Wayne, Ind. Reel. No. 1,398,185; Nov. 22.
- Frohne, Albin, assignor to American Flyer Manufacturing Co., Chicago, Ill. Crossover for toy railways. No. 1,390,119; Sept. 6; v. 290; p. 113.
- Frohne, Albin, assignor to American Flyer Manufacturing Co., Chicago, Ill. Trolley-contactors. No. 1,390,120; Sept. 6; v. 290; p. 113.
- Fromm, Edward H., Allentown, Pa., assignor to Fuller-Lehigh Company. Concentrating-pan. No. 1,381,411; June 14; v. 287; p. 259.
- Frommann, Luise, geborn Machztan, Frankfort-on-the-Main, Germany. Hair and curl pin. No. 1,372,285; Mar. 22; v. 284; p. 650.
- Frommer, Joseph P., Toledo, Ohio. Lock. No. 1,366,909; Feb. 1; v. 283; p. 6.
- Fromm, Acel H., Santa Maria, Calif. Combination barbecue iron and grate. No. 1,384,250; July 12; v. 288; p. 255.
- Frost, Clarence M., Attleboro, Mass. Aerated-water-supply device. No. 1,391,311; Sept. 20; v. 290; p. 507.
- Frost, Clayton H., Orange, N. J. Engine. No. 1,376,267; Apr. 26; v. 285; p. 691.
- Frost, Clinton E., East Cleveland, assignor to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio. Brush. No. 1,372,680; Mar. 29; v. 284; p. 765.
- Frost, Clinton E., East Cleveland, assignor to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio. Rotary brush. No. 1,391,051; Sept. 20; v. 290; p. 454.
- Frost, Clinton E., East Cleveland, assignor to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio. Rotary brush. No. 1,394,993; Oct. 25.
- Frost, George B., Des Moines, Iowa. Stock-feeding device. No. 1,368,553; Feb. 15; v. 283; p. 432.
- Frost, Horace L., Elizabethton, Tenn. Pneumatic pump. No. 1,387,376; Aug. 9; v. 289; p. 353.
- Frost, Jules A., Alafia, Fla. Stamp-inking device. No. 1,374,883; Apr. 12; v. 285; p. 332.
- Frost, Nathaniel, assignor to American Foundry & Furnace Company, Bloomington, Ill. Furnace-casing. No. 1,394,821; Oct. 25.
- Frost, Peter I., Cedarhurst, N. Y. Burial-vault. No. 1,390,121; Sept. 6; v. 290; p. 114.
- Frost, William, assignor to Harvey Frost & Company, Limited, London, England. Burner for vulcanizers. No. 1,388,032; Aug. 16; v. 289; p. 534.
- Froussard, Albert F., St. Louis, Mo. Tube-cleaner. No. 1,367,314; Feb. 1; v. 283; p. 86.
- Froussard, Albert F., St. Louis, Mo. Elevator-locking device. No. 1,376,687; May 3; v. 286; p. 57.
- Frovorp, Ole P., Adams, N. D. Flying-machine. No. 1,372,498; Mar. 22; v. 284; p. 690.
- Fruchtman, Theodore, New York, N. Y. Necktie and making the same. No. 1,379,256; May 24; v. 286; p. 731.
- Frühling, Curt. (See Frühling, Otto and C.)
- Frühling, Otto and C., Braunschweig, Germany. Suction-dredge. No. 1,393,680; Oct. 11.
- Fruit, John C., Montreal, Quebec, Canada. Record system. No. 1,367,034; Feb. 1; v. 283; p. 30.
- Fruitticher, Edwin W., et al. (See Fruitticher, William H., assignor.)
- Fruitticher, William H., assignor of one-third to E. W. Fruitticher and one-third to M. E. Davis, Birmingham, Ala. Grocery sales-wagon. No. 1,371,234; Mar. 15; v. 284; p. 389.
- Frum, Alonzo A., Columbus, Ohio. Soldering-iron. No. 1,400,148; Dec. 13.
- Fruwirth, Arthur, Brooklyn, N. Y. Process or copying camera. No. 1,401,902; Dec. 27.
- Fry, Arthur V., Ridgewood, N. J. Combination check, receipt, and record. No. 1,385,321; July 19; v. 288; p. 556.
- Fry, Edwin B., Oroville, Calif. Combined gage and marker. No. 1,394,992; Oct. 25.
- Fry, Ernest T., assignor to J. M. Moses, Baltimore, Md. Mail-box. No. 1,382,419; June 21; v. 287; p. 509.
- Fry, R. M. (See Murphy, Daniel R., assignor.)
- Fry, Harry M., Johnstown, Pa. Tire-tread. No. 1,390,900; Sept. 13; v. 290; p. 361.
- Fry, Henry E., Dorchester, England. Manure. No. 1,397,629; Nov. 22.
- Fry, Roy C. (See Tooker, Charles O., assignor.)
- Fry, Walter L., Detroit, Mich., assignor, by mesne assignments, to E. G. Budd Manufacturing Company. Automobile-body. No. 1,367,247; Feb. 1; v. 283; p. 73.
- Frye, Robert B., Pueblo, Colo. Plant-protector. No. 1,375,583; Apr. 19; v. 285; p. 528.
- Fryer, Frederick G., York, England. Beating or threshing machine. No. 1,387,380; Aug. 9; v. 289; p. 354.
- Fryer, Frederick G., and B. G. McLellan, York, England. Manufacture of high-class "Fondant" chocolate and similar chocolates. No. 1,387,377; Aug. 9; v. 289; p. 353.
- Fryer, Frederick G., and B. G. McLellan, York, England. Manufacture of high-class "Fondant" chocolate and similar chocolates. No. 1,387,378; Aug. 9; v. 289; p. 353.
- Fryer, Frederick G., and B. G. McLellan, York, England. Manufacture of high-class "Fondant" chocolate and similar chocolates. No. 1,387,379; Aug. 9; v. 289; p. 353.
- Frykman, August, Souris, N. D., assignor of one-fourth to F. W. Galland, Minneapolis, Minn. Piston-ring. No. 1,393,211; Oct. 11.
- Fryman, Harry, Grimsby, Lincoln, England. Signaling apparatus for vehicles. No. 1,391,623; Sept. 20; v. 290; p. 570.
- Ftacek, Joseph and S. Streater, Ill. Support for sewing-pliers. No. 1,372,499; Mar. 22; v. 284; p. 690.
- Ftacek, Steve. (See Ftacek, Joseph and S.)
- Fuchs, Ernest, assignor to L. Renault, Billancourt, France. Apparatus for use in calibrating and rifling the bore of firearms. No. 1,394,079; Oct. 18.
- Fuchs, Ernest, Paris, assignor to L. Renault, Billancourt, France. Chassis for automobile-vehicles. No. 1,400,045; Dec. 13.
- Fuchs, Karl, Atco, N. J. Test-glasses for hemoglobinometers. No. 1,400,356; Dec. 13.
- Fuchs-Maurer, Carolina, Zurich, Switzerland. Hair-ondulator. No. 1,398,637; Nov. 29.
- Fuegel, Gottlob and H. Schmid, assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y. Connection for shafts or journals. No. 1,378,446; May 17; v. 286; p. 503.



## Alphabetical list of patentees—Continued.

- Fuegel, Gottlob, and H. Schmid, assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y. Closure. No. 1,386,101; Aug. 2; v. 289; p. 28.
- Fuegel, Gottlob, and H. Schmid, assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y. Timer-ring for ignition systems. No. 1,395,042; Oct. 25.
- Fuel Savings Company. (See Barnhurst, Henry R., assignor.)
- Fuerth, Gustave W., assignor to himself and S. W. Fuerth, Newark, N. J. Paper-package. No. 1,364,743; Jan. 4; v. 282; p. 134.
- Fuerth, Sidney W. (See Fuerth, Gustave W., assignor.)
- Fuerth, William G., Newark, N. J., assignor, by mesne assignments, to Underwood Typewriter Company, New York, N. Y. Stenciling. No. 1,398,013; Nov. 22.
- Fuhr, Albert B., Macomb, Ill. Vehicle-wheel. No. 1,387,148; Aug. 9; v. 289; p. 307.
- Fuhr, Conrad, Milwaukee, Wis. Gas-stove lighter. No. 1,393,890; Oct. 18.
- Fujii, Mitsuzo Mita, Shiba-ku, Tokyo, Japan. Prismatic binocular. No. 1,373,554; Apr. 5; v. 285; p. 34.
- Fujita, Kuwakichi, Hazleton, Pa. Burglar-alarm. No. 1,368,791; Feb. 15; v. 283; p. 478.
- Fujita, Kuwakichi, Hazleton, Pa. Burglar-alarm. No. 1,383,924; July 5; v. 288; p. 138.
- Fujita, Kuwakichi, Hazleton, Pa. Cooler. No. 1,383,925; July 5; v. 288; p. 138.
- Fujiwara, Asajiro, Winnipeg, Manitoba, Canada. Automobile signaling appliance. No. 1,372,415; Mar. 22; v. 284; p. 674.
- Fukuda, Kinsuke, Tokyo, Japan. Elastic tire. No. 1,377,011; May 3; v. 286; p. 120.
- Fukuda, Kinsuke, Tokyo, Japan. Non-pneumatic rubber ball and manufacturing the same. (Reissue.) No. 15,108; May 24; v. 286; p. 796.
- Fuld, Katherine B., assignor to W. Fuld, Baltimore, Md. Figure-wheeled toy. No. 1,398,426; Nov. 29.
- Fuld, Siegfried, New York, L. Traube, Brooklyn, and A. Wolff, assignors to Fuld, Traube & Co., Inc., New York, N. Y. Display-stand for veils. No. 1,370,105; Mar. 1; v. 284; p. 66.
- Fuld, Traube & Co. (See Fuld, S., Traube, and Wolff, assignors.)
- Fuld, William. (See Fuld, Katherine B., assignor.)
- Fuld, William. (See Knowles, Frank, assignor.)
- Fuld, William. (See Norwood, Harry G., assignor.)
- Fulda, Edward, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,378,020; May 17; v. 286; p. 422.
- Fuldauer, Frederick L., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Oil-feed controller. No. 1,383,926; July 5; v. 288; p. 138.
- Fulenwider, Harry W., St. Louis, Mo. Irremovable cap for containers. No. 1,399,759; Dec. 13.
- Fulford, Marcus F., Fort Worth, Tex. Garment-hanger. No. 1,386,775; Aug. 9; v. 289; p. 232.
- Fulford Mfg. Co. (See Jaquiere, William, assignor.)
- Fulghum, Claud L., Quincy, Ill. Elevator-door-operating mechanism. No. 1,392,320; Oct. 4.
- Fulghum, Claude L. (See Fogal, J. E. W., and Fulghum.)
- Fulkerson, Joseph C., Marion, and L. B. Stuart, Cedar Rapids, Iowa. Bag-cleaner. No. 1,397,417; Nov. 15.
- Fulkerson, Walter J., San Diego, and G. H. Yabraus, Los Angeles, Calif.; said Fulkerson assignor to said Yabraus. Rotary well-reamer. No. 1,384,016; July 5; v. 288; p. 157.
- Fullem, Thomas J., Jr., *et al.* (See Heaton, John T., assignor.)
- Fullenwider, George R., Fairfield, Mont. Angular-socket wrench. (Reissue.) No. 15,093; Apr. 26; v. 285; p. 715.
- Fullenwider, George R., Fairfield, Mont. Cigar-carrier. No. 1,392,409; Oct. 4.
- Fuller, Andrew, Linnnton, Ore. Injector-controlling valve. No. 1,365,476; Jan. 11; v. 282; p. 320.
- Fuller, Arthur E., Stratford, Conn. Automatic heat-regulator. No. 1,372,416; Mar. 22; v. 284; p. 674.
- Fuller, Aubrey V., New York, N. Y. Filling-machine. No. 1,393,276; Oct. 11.
- Fuller Brush Company, The. (See Hagstrom, Albert G., assignor.)
- Fuller, Charles E., assignor of one-half to A. H. Feters, Omaha, Nebr. Steam-boiler low-water signal. No. 1,392,682; Oct. 4.
- Fuller, Charles H., Portland, Ore. Lifeboat-derrick. No. 1,386,102; Aug. 2; v. 289; p. 28.
- Fuller, Clarence C., assignor of one-fifth to H. E. Fuller, one-fifth to F. C. Griffin, one-fifth to E. L. Hiles, and one-fifth to W. J. Frederick, Loxley, Ala. Thrust-bearing for internal-combustion engines. No. 1,395,043; Oct. 25.
- Fuller Engineering Company. (See Barnhurst, H. R., Collins, and Barnhurst, assignors.)
- Fuller Engineering Company. (See Barnhurst, Henry G., assignor.)
- Fuller, F. A. (See McKirahan, Samuel, assignor.)
- Fuller, Frank J., San Francisco, Calif. Test-tank. No. 1,371,751; Mar. 15; v. 284; p. 490.
- Fuller, Franz A., Newark, N. J. Match-box. No. 1,376,931; May 3; v. 286; p. 105.
- Fuller, Franz A., Newark, N. J. Sharpening device for razor-blades. No. 1,378,851; May 24; v. 286; p. 654.
- Fuller, Franz A., Newark, N. J. Dip-tank with automatic cover. No. 1,388,942; Aug. 30; v. 289; p. 825.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,366,376; Jan. 25; v. 282; p. 578.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Inkstand. No. 1,389,650; Sept. 6; v. 290; p. 18.
- Fuller, Franz A., assignor to J. E. Mergott Company, Newark, N. J. Bag-fastener. No. 1,393,770; Oct. 18.
- Fuller, Fred E. (See McNeal, Charles A., assignor.)
- Fuller, Frederick L., Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,369,415; Feb. 22; v. 283; p. 638.
- Fuller, Frederick L., assignor to The National Cash Register Company, Dayton, Ohio. Machine for printing and issuing railway-tickets. No. 1,382,637; June 28; v. 287; p. 604.
- Fuller, Frederick L., Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Machine for printing and issuing railway-tickets. No. 1,392,929; Oct. 11.
- Fuller, Frederick L., Bridgeport, Conn., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,394,256; Oct. 18.
- Fuller, Frederick R., Marlboro, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Clicking-die. No. 1,368,330; Feb. 15; v. 283; p. 388.
- Fuller, G. C., Manufacturing Company, The. (See Fuller, Gaius C., assignor.)
- Fuller, Gaius C., assignor to The G. C. Fuller Manufacturing Company, Cincinnati, Ohio. Gas-lighter. No. 1,386,563; Aug. 2; v. 289; p. 117.
- Fuller, Garle M., Kirksville, Mo. Automobile-radiator cap. No. 1,369,646; Feb. 22; v. 283; p. 683.
- Fuller, George B., Cleveland, Ohio. Internal-combustion engine. No. 1,382,420; June 21; v. 287; p. 509.
- Fuller, Harry E., Newhall, Iowa. Brick-carrier. No. 1,385,867; July 26; v. 288; p. 744.
- Fuller, Harvey R., Kirksville, Mo. Show-carding pen. No. 1,381,296; June 14; v. 287; p. 237.
- Fuller, Hattie L. (See Bardwell, G. E., and Fuller.)
- Fuller, Howard E., *et al.* (See Fuller, Clarence C., assignor.)
- Fuller, Jesse W., Little Rock, Ark. Connecting device for wires. No. 1,393,107; Oct. 11.
- Fuller, Joseph C., Sewaren, N. J. Apparatus for indicating the height of water in receptacles. No. 1,367,689; Feb. 8; v. 283; p. 217.
- Fuller, Joseph O., Providence, R. I. Spore-trap. No. 1,396,568; Nov. 8.
- Fuller-Lehigh Company. (See Collins, Harry R., assignor.)
- Fuller-Lehigh Company. (See Fromm, Edward H., assignor.)
- Fuller-Lehigh Company. (See Kinter, C. W., and Smith, assignors.)
- Fuller, Leonard F., San Francisco, Calif., assignor, by mesne assignments, to United States of America. Radiotelegraphy. No. 1,365,977; Jan. 18; v. 282; p. 457.
- Fuller, Leonard F., assignor to Federal Telegraph Company, San Francisco, Calif. Process of and apparatus for producing radiofrequency-current. No. 1,381,626; June 14; v. 287; p. 298.
- Fuller, Orie E., Los Gatos, Calif. Cultivator attachment. No. 1,369,970; Mar. 1; v. 284; p. 41.
- Fuller, Roy, St. Paul, Minn. Toy gun. No. 1,376,867; May 3; v. 286; p. 93.
- Fullington, John H., assignor of one-half to I. Wind, Huntsville, Ala. Wrist-pin. No. 1,384,186; July 12; v. 288; p. 242.
- Fullington, William H., *et al.* (See Smith, Wilson G., assignor.)
- Fullinwider, Simon P., Washington, D. C., assignor to the Government of the United States. Submarine mine. No. 1,372,617; Mar. 22; v. 284; p. 712.
- Fulper, William H. (See Case, William W., assignor.)
- Fulton, Clarence E., Tarentum, Pa., assignor to Pittsburgh Plate Glass Company. Making clay pots. No. 1,364,875; Jan. 11; v. 282; p. 204.
- Fulton, Clarence E., Tarentum, Pa., assignor to Pittsburgh Plate Glass Company. Manufacture of earthenware. No. 1,398,014; Nov. 22.
- Fulton Company, The. (See Adams, Arthur J., assignor.)
- Fulton Company, The. (See Fulton, Weston M., assignor.)
- Fulton Company, The. (See Giesler, Jean V., assignor.)
- Fulton, Edwin W., assignor to Velox Vise Co., Inc., Lowville, N. Y. Quick-acting vise. No. 1,387,845; Aug. 16; v. 289; p. 498.
- Fulton Foundry & Machine Company, The. (See Lake, David, assignor.)
- Fulton, Guy L. (See Cullen, Harry S., assignor.)
- Fulton Iron Works Company. (See Hildebrand, Reinhard, assignor.)
- Fulton Iron Works Company. (See Lortz, Louis E., assignor.)
- Fulton, Jacob A., Astoria, Ore. Surgical instrument. No. 1,376,754; May 3; v. 286; p. 70.
- Fulton, James M. (See Zimmerman, Clarence W., assignor.)



## Alphabetical list of patentees--Continued.

- Fulton, Karl H., Pittsburgh, Pa. Producing cellular material. No. 1,385,044; July 19; v. 288; p. 500.
- Fulton, Robert R., Indian Head, Md. Pyrotechnic composition. No. 1,399,953; Dec. 13.
- Fulton, Robert R., Indian Head, Md. Pyrotechnic composition. No. 1,399,954; Dec. 13.
- Fulton, Samuel M., Pomona, Calif. Pump-head. No. 1,382,281; June 21; v. 287; p. 482.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Automatic thermostatic safety device in connection with radiator-dampers. No. 1,364,927; Jan. 11; v. 282; p. 213.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Flexible wall. No. 1,368,253; Feb. 15; v. 283; p. 373.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Valve. No. 1,370,532; Mar. 8; v. 284; p. 192.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Packless valve. No. 1,381,818; June 14; v. 287; p. 330.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Speed-responsive device. No. 1,384,314; July 12; v. 288; p. 268.
- Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Centrifugal regulating device. No. 1,392,890; Oct. 4.
- Fulton, William B., Middletown, Ohio. Drier-heating system. No. 1,380,373; June 7; v. 287; p. 10.
- Fulton, William H. (See Brinkman, L. H., Fulton, and Sheller.)
- Fulton, William H., Irvington, N. J. Manufacture of tires. No. 1,393,998; Oct. 18.
- Fulton, William H., Irvington, N. J., assignor to Titeflex Metal Hose Corporation. Coupling for pipes. No. 1,368,919; Feb. 15; v. 283; p. 503.
- Fulwider, Oscar M., and A. E. Burruss, Norfolk, Va. Barrel-head. No. 1,377,334; May 10; v. 286; p. 239.
- Fumagalli, Giacomo. (See Cardone, P., Fumagalli, and Surico.)
- Fumagalli, Giacomo, C. Surico, and P. Cardone, assignors to Claremont Machine Co., New York, N. Y. Belt-shifter. No. 1,379,401; May 24; v. 286; p. 758.
- Fumo, Frank, *et al.* (See Merli, C., and Bertolini, assignors.)
- Funderburg, Coral V., Yellow Springs, Ohio. Electric burner. No. 1,375,145; Apr. 19; v. 285; p. 445.
- Funk, Jacques S., Baltimore, Md., assignor of one-half to R. W. Cook. Propeller. No. 1,396,680; Nov. 8.
- Funk, John E., Stockton, Calif. Grade-indicating device for ditching-machines. No. 1,369,235; Feb. 22; v. 283; p. 603.
- Funk, John E., Stockton, Calif. Ditch-digger. No. 1,371,752; Mar. 15; v. 284; p. 491.
- Funk, John E., Stockton, Calif. Grade-maintaining device for ditching-machines. No. 1,386,103; Aug. 2; v. 289; p. 28.
- Funk, Nelson E., Montclair, N. J., assignor to United States Envelope Company, Springfield, Mass. Envelope-machine. No. 1,372,223; Mar. 22; v. 284; p. 637.
- Funk, Truman B., Moline, Ill. Driving-overshoe. No. 1,370,423; Mar. 1; v. 283; p. 126.
- Funk, Truman B., Moline, Ill. Hub-bearing. No. 1,378,587; May 17; v. 286; p. 530.
- Funk, Truman B., Moline, Ill. Hub-bearing. No. 1,378,588; May 17; v. 286; p. 531.
- Funk, Truman B., Moline, and C. M. Eason, Chicago, Ill. Pressure-lubricated bearing. No. 1,370,422; Mar. 1; v. 284; p. 126.
- Funk, Truman B., Moline, and W. L. Carver, Rock Island, assignors to Moline Plow Company, Moline, Ill. Internal-combustion engine. No. 1,396,183; Nov. 8.
- Funkley, Charles H., Ramsay, Mich. Mine-car-loading shovel. No. 1,390,095; Sept. 13; v. 290; p. 320.
- Funkhouser, Vernon E., Kansas City, Mo., and A. M. Meyers, Meriam, Kans. Motor-vehicle turner. No. 1,394,489; Oct. 18.
- Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding apparatus. No. 1,364,876; Jan. 11; v. 282; p. 204.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Welt-butting machine. No. 1,368,331; Feb. 15; v. 283; p. 388.
- Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Blacking-machine. No. 1,373,497; Apr. 5; v. 285; p. 23.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Surface-scouring machine. No. 1,374,194; Apr. 12; v. 285; p. 199.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Blacking-machine. No. 1,375,838; Apr. 26; v. 285; p. 609.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fluid-applying machine. No. 1,376,524; May 3; v. 286; p. 27.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoe-soles. No. 1,381,297; June 14; v. 287; p. 237.
- Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Dispensing device. No. 1,384,127; July 12; v. 288; p. 229.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Splitting and butting machine. No. 1,395,268; Nov. 1.
- Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Carbureter. No. 1,396,184; Nov. 8.
- Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting blanks from sheet material. No. 1,396,185; Nov. 8.
- Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding apparatus. No. 1,398,295; Nov. 29.
- Furber, James B., Rahway, N. J. Circuit-controlling telephone-receiver support. No. 1,386,464; Aug. 2; v. 289; p. 98.
- Furman, Abraham P., assignor to I. Furman, New York, N. Y. Apparatus for taking and projecting pictures in colors. No. 1,371,970; Mar. 15; v. 284; p. 532.
- Furman, Horace, Petersburg, Va. Steam-boiler. No. 1,379,547; May 24; v. 286; p. 786.
- Furman, Ira. (See Furman, Abraham P., assignor.)
- Furman, Ira, New York, N. Y. Color-picture. No. 1,371,969; Mar. 15; v. 284; p. 532.
- Furman, Leonard L. (See Hogan, L. J., and Furman.)
- Furman, Samuel, Worcester, assignor to United States Envelope Company, Springfield, Mass. Machine for making window-envelops. No. 1,381,090; June 7; v. 287; p. 147.
- Furman, William B., Chester, Pa. Pneumatic rivet-passing apparatus. No. 1,385,820; July 26; v. 288; p. 735.
- Furmidge, Samuel. (See Howard, H. H., and Furmidge.)
- Furnari, Luigi, Ravenna, Ohio. Spading-machine. No. 1,374,195; Apr. 12; v. 285; p. 199.
- Furrey, George W., Evanston, Ill. Copy-holder. No. 1,370,737; Mar. 8; v. 284; p. 232.
- Furst, Alexander, assignor of one-half to C. E. Pobe, New York, N. Y. Automobile-radiator. No. 1,398,774; Nov. 29.
- Furst, Herman, Redlands, Calif. Valve for explosion-engines. No. 1,384,053; July 12; v. 288; p. 215.
- Fusman, Andrew L., Orient, S. D. Rotary cutlass. No. 1,369,736; Feb. 22; v. 283; p. 701.
- Futterer, Edward J., Buffalo, N. Y. Accident-preventing attachment for vehicles. No. 1,386,172; Aug. 2; v. 289; p. 42.
- Futterer, Edward J., Buffalo, N. Y. System of operating safety appliances on electric cars and other vehicles. No. 1,397,205; Nov. 15.
- Fyans, Catherine, administratrix. (See Adair, S. T., and Fyans.)
- Fyans, Hugh C. (See Adair, S. T., and Fyans.)
- Fyffe, Thomas L., Dundee, Scotland. Pipe-joint and the like. No. 1,379,811; May 31; v. 286; p. 909.
- Fynn, Valère A., assignor to Western Electric Manufacturing Company, St. Louis, Mo. Oil-seal for bearings. No. 1,375,376; Apr. 19; v. 285; p. 489.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Polyphase motor. No. 1,387,046; Aug. 9; v. 289; p. 287.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Polyphase motor. No. 1,387,047; Aug. 9; v. 289; p. 288.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,387,048; Aug. 9; v. 289; p. 288.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Voltage-regulating apparatus. No. 1,387,149; Aug. 9; v. 289; p. 307.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Ignition-switch. No. 1,397,277; Nov. 15.
- Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,397,278; Nov. 15.
- G. & J. Tire Company. (See Brown, Frank A., assignor.)
- G. & J. Weir Limited. (See Lang, Charles R., assignor.)
- G. & W. Electric Specialty Co. (See Williams, Paul F., assignor.)
- G. G. G. Metal Stamping Company. (See Greene, Glenn G., assignor.)
- G. & V. R. Limited. (See Grice, Arthur G., assignor.)
- Gabbe, Herman, Brooklyn, N. Y. Dressing and dyeing moleskins. No. 1,384,446; July 12; v. 288; p. 296.
- Gabel, Albert W., Rochester, N. Y. License-bracket. No. 1,387,846; Aug. 16; v. 289; p. 498.
- Gabel, Henry M., Cincinnati, Ohio. Making litharge and red lead. No. 1,382,282; June 21; v. 287; p. 482.
- Gabel, Herman W., San Francisco, Calif. Polishing-machine. No. 1,375,377; Apr. 19; v. 285; p. 489.
- Gable, Benjamin E., San Francisco, Calif. Bath combination and nozzle. No. 1,398,941; Nov. 29.
- Gable, Jacob W., assignor of two-thirds to A. Coughlin and B. Duncan and one-third to A. W. Hutton and P. D. Astry, Cleveland, Ohio. Self-locking damper-regulator. No. 1,397,953; Nov. 22.



*Alphabetical list of patentees—Continued.*

- Gabriel, George A., and J. T. Skillins, assignors to Dana Cotton Harvester Company, Westbrook, Me. Roller-bearing. No. 1,400,599; Dec. 20.
- Gabriel, John W. W., *et al.* (See Carson, James, assignor.)
- Gabriel, S. G. F. Roeling, and J. H. F. Webert, New Orleans, La. Gas-meter seal. No. 1,365,477; Jan. 11; v. 282; p. 320.
- Gabrielson, Carl, Syracuse, N. Y. Platen-clutch for type-writing-machines. No. 1,393,277; Oct. 11.
- Gabrielson, Carl, assignor to Gabrielson Manufacturing Corporation, Syracuse, N. Y. Milling-machine. No. 1,369,416; Feb. 22; v. 283; p. 638.
- Gabrielson Manufacturing Corporation. (See Gabrielson, Carl, assignor.)
- Gabrio, Claude E., Madison, Wis. Vegetable-paring machine. No. 1,399,858; Dec. 13.
- Gach, Alfred, and G. Wilcox, assignors to The Interchangeable Wall Case Company, Detroit, Mich. Interchangeable-unit store furniture. No. 1,386,615; Aug. 9; v. 280; p. 200.
- Gaddess, Harry W., Baltimore, Md. Ventilator. No. 1,375,378; Apr. 19; v. 285; p. 489.
- Gade, Harold F., assignor to Standard Pressed Steel Company, Philadelphia, Pa. Shaft-hanger. No. 1,383,293; July 5; v. 288; p. 7.
- Gaede, Franz, Fort Wuertemberg, near Metz, Germany. Drip-guard for brushes. No. 1,398,894; Nov. 29.
- Gaertner, Moritz, New York, N. Y. Means for transporting oil by water. No. 1,389,245; Aug. 30; v. 289; p. 886.
- Gaess, Albert H., Waterbury, Conn., assignor to The E. J. Manville Machine Company. Punch-transfer mechanism for heading-machines. No. 1,372,132; Mar. 22; v. 284; p. 619.
- Gaess, Albert H., assignor to The E. J. Manville Machine Company, Waterbury, Conn. Frame construction for metal-heading machines. No. 1,372,133; Mar. 22; v. 284; p. 620.
- Gaff, Thomas T., Washington, D. C. Liquid-fuel-feeding device. No. 1,373,498; Apr. 5; v. 285; p. 23.
- Gaffy, Patrick J., Philadelphia, Pa. Explosive. No. 1,399,472; Dec. 6.
- Gagarin, Andrew A., assignor to The Gear Grinding Machine Company, Detroit, Mich. Center-bearing. No. 1,384,187; July 12; v. 288; p. 242.
- Gage, Daniel W., Pritchett, Tex. Flow. No. 1,400,429; Dec. 13.
- Gage, Edward G., South Norwalk, Conn. Oil-engine. No. 1,366,580; Jan. 25; v. 282; p. 610.
- Gage, Harold J., Stockton, Calif. Adjustable view-reflector. No. 1,387,887; Aug. 16; v. 289; p. 506.
- Gage, Henry P., assignor to Corning Glass Works, Corning, N. Y. Optical projecting system. No. 1,395,338; Nov. 1.
- Gage, John, North Little Rock, Ark. Safety-lock for motor-cars. No. 1,371,886; Mar. 15; v. 284; p. 516.
- Gage, Samuel, Holloway, London, assignor to The London General Omnibus Company, Limited, Broadway, Westminster, London, England. Chair or the like. No. 1,390,525; Sept. 13; v. 290; p. 285.
- Gage, Walter F., Smith, Nev. Quilting-frame. No. 1,380,202; May 31; v. 286; p. 983.
- Gager, Edwin B., Jr., assignor to The Derby Textile Co., Derby, Conn. Reel for strip material. No. 1,397,954; Nov. 22.
- Gagné, Augustin, Central Falls, assignor, by mesne assignments, to Hemphill Company, Pawtucket, R. I. Stop-motion and alarm mechanism for knitting-machines. No. 1,375,217; Apr. 19; v. 285; p. 459.
- Gagnier, Elmer J., Detroit, Mich. Spark-plug. No. 1,368,554; Feb. 15; v. 283; p. 432.
- Gagnon, Alexander, assignor to Fisher Body Corporation, Detroit, Mich. Latch. No. 1,376,755; May 3; v. 286; p. 71.
- Gagnon, Joseph A., South Fitchburg, Mass., assignor to Crompton & Knowles Loom Works. Stop-motion for looms. No. 1,369,417; Feb. 22; v. 283; p. 638.
- Gagnon, Joseph H., assignor of two-thirds to V. Geoffrion, Montreal, Quebec, Canada. Combination kitchen utensil. No. 1,394,194; Oct. 18.
- Gagnon, Napoléon E., Elma, Wash. Bull-hook. No. 1,368,497; Feb. 15; v. 283; p. 421.
- Gahan, Hugh N., Kelowna, British Columbia, Canada. T-square. No. 1,392,756; Oct. 4.
- Gahl, Rudolf, Miami, Ariz., assignor, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Flotation apparatus. No. 1,401,598; Dec. 27.
- Gahn, Frank, Streator, Ill. Bumper for automobiles. No. 1,390,285; Sept. 13; v. 290; p. 238.
- Galdos, Alonzo F., and F. H. Guy, Racine, Wis. Street or station indicator. No. 1,365,905; Jan. 18; v. 282; p. 443.
- Gail, Charles H., assignor to The Shott Manufacturing Company, Cincinnati, Ohio. Bed-spring. No. 1,387,150; Aug. 9; v. 289; p. 307.
- Gall, Charles H., assignor to The Shott Manufacturing Company, Cincinnati, Ohio. Bed-spring. No. 1,400,505; Dec. 13.
- Gail, John F., Evanston, Ill., assignor to Simmons Company, Kenosha, Wis. Strip-working. No. 1,364,271; Jan. 4; v. 282; p. 44.
- Gail, John F., assignor to Simmons Company, Kenosha, Wis. Tube-bending apparatus. No. 1,379,858; May 31; v. 286; p. 918.
- Gaillard, Antoine, Marseille, France. Device for controlling the speed of automobile-vehicles. No. 1,400,810; Dec. 20.
- Gaillard, Peter J., Chicago, Ill. Fluid-pressure rail-brake. No. 1,379,548; May 24; v. 286; p. 786.
- Gaines, Bernard C., Burlington, Ky. Hog-holder. No. 1,380,891; June 7; v. 287; p. 109.
- Gaines, Chester R., Colfax, assignor of one-half to S. A. Potts, Muscatine, Iowa. Call-clock. No. 1,371,781; Mar. 15; v. 284; p. 496.
- Gaines, Roy Edw., Evansville, Ind. Spring. No. 1,393,618; Oct. 11.
- Gaines, Thomas R., Norwood, Ohio. Tags. No. 1,392,410; Oct. 4.
- Gainor, Summers H., Baltimore, Md. Clamp for holding drive-chains while repairing the same. No. 1,373,230; Mar. 29; v. 284; p. 876.
- Gair, Robert, Company. (See Jones, R. E., and Von Thlen, assignors.)
- Gaisman, Henry J., Woodmere, assignor to Auto Strop Company, New York, N. Y. Box. No. 1,367,035; Feb. 1; v. 283; p. 30.
- Gaisman, Henry J., Woodmere, assignor to Auto Strop Company, New York, N. Y. Box. No. 1,367,036; Feb. 1; v. 283; p. 30.
- Gaisman, Henry J., New York, assignor to Eastman Kodak Company, Rochester, N. Y. Method of and apparatus for designating photographic exposures. No. 1,396,035; Nov. 8.
- Gaither, C. T. (See Turner, Russell J., assignor.)
- Gaj, John, Detroit, Mich. Hunter's chair. No. 1,377,063; May 3; v. 286; p. 130.
- Gal, Mathias, Cleveland, Ohio. Radiator. No. 1,378,103; May 17; v. 286; p. 439.
- Galamb, Joseph, and E. P. Oswald, assignors to Ford Motor Company, Detroit, Mich. Dimmer. No. 1,400,811; Dec. 20.
- Galassi, Pasquale, Boston, Mass. Floor and method and apparatus for laying same. No. 1,377,675; May 10; v. 286; p. 304.
- Galbraith, Daniel H., assignor to The Adams-Bagnall Electric Company, Cleveland, Ohio. Headlight. No. 1,367,315; Feb. 1; v. 283; p. 86.
- Galbraith, Harriet L., Washington, D. C. Sadiron-stand. No. 1,376,269; Apr. 26; v. 285; p. 692.
- Galbraith, John, Swatara, Minn. Wood-carving machine. No. 1,368,712; Feb. 15; v. 283; p. 463.
- Galbreth, J. L. (See Fells, Samuel, assignor.)
- Gale, Box Machinery Company. (See Gale, Henry A., assignor.)
- Gale, Ernest L., Sr., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Elevator. No. 1,369,094; Feb. 22; v. 283; p. 576.
- Gale, Henry A., Fitchburg, assignor to Gale Box Machinery Company, West Fitchburg, Mass. Lumber edging and matching machine. No. 1,395,408; Nov. 1.
- Gale, Laburton A., Belmont, assignor to Library Bureau, Cambridge, Mass. Index-card. No. 1,370,424; Mar. 1; v. 284; p. 127.
- Gale, Laburton A., Belmont, assignor to Library Bureau, Cambridge, Mass. Index-card. No. 1,390,199; Sept. 6; v. 290; p. 128.
- Gale, Laburton A., Belmont, assignor to Library Bureau, Cambridge, Mass. Index-card. No. 1,391,182; Sept. 20; v. 290; p. 481.
- Galebach, Edwin R., Lebanon, Pa. Cotter-pin extractor. No. 1,398,543; Nov. 29.
- Galerkin, Samuel, Milwaukee, Wis. Extension-table slide. No. 1,396,036; Nov. 8.
- Gales, George T. W., Uniontown, Pa. Battery-clamp. No. 1,392,757; Oct. 4.
- Galka, John, Leavenworth, Kans. Shoemaker's jack. No. 1,370,205; Mar. 1; v. 284; p. 85.
- Gall, George J., San Diego, Calif. Two-cycle internal-combustion engine. No. 1,367,037; Feb. 1; v. 283; p. 31.
- Gallager, Albert J., New York, N. Y. Electrical immersion-heater. No. 1,365,978; Jan. 18; v. 282; p. 457.
- Gallagher, Alfred H., assignor to Tanners Products Company, Chicago, Ill. Felt. No. 1,368,920; Feb. 15; v. 283; p. 503.
- Gallagher, Alfred H., assignor to Tanners Products Company, Chicago, Ill. Bat for upholstery. No. 1,368,921; Feb. 15; v. 283; p. 503.
- Gallagher, Arthur D. (See Heylman, E. M., and Gallagher.)
- Gallagher, Arthur D., assignor to Oliver Chilled Plow Works, South Bend, Ind. Tractor-drawn plow. No. 1,376,756; May 3; v. 286; p. 71.
- Gallagher, Arthur D., assignor to Oliver Chilled Plow Works, South Bend, Ind. Adjusting means for plows. No. 1,377,064; May 3; v. 286; p. 131.
- Gallagher, Charles F. (See Lukens, W. R., and Gallagher.)
- Gallagher, Emma G., *et al.* (See Gallagher, G. S., and Schadee, assignors.) (Reissue.)
- Gallagher, Emma G., *et al.* (See Schadee, Gustav, assignor.) (Reissue.)



*Alphabetical list of patentees—Continued.*

- Gallagher, George D., Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp. No. 1,396,828; Nov. 15.
- Gallagher, George D., Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp-switch. No. 1,396,829; Nov. 15.
- Gallagher, George D., Washington, D. C., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp-switch. No. 1,396,830; Nov. 15.
- Gallagher, George D., New Haven, Conn., assignor of twenty-five one-hundred-and-fourths to N. T. Hoos, twenty-five one-hundred-and-fourths to R. B. Walten, four one-hundred-and-fourths to M. G. Schanberger, and twenty-five one-hundred-and-fourths to M. E. Mohr, Baltimore, Md., and twenty-five one-hundred-and-fourths to C. F. Moore, Washington, D. C. Blade-sharpening device. (Reissue.) No. 15,250; Dec. 20.
- Gallagher, George S., and G. Schadee, assignors, by mesne assignments, to E. G. Gallagher and A. Schadee, New York, N. Y. Vehicle-wheel. (Reissue.) No. 15,191; Sept. 13; v. 290; p. 377.
- Gallagher, John F., Chicago, Ill. Poultry-grit. No. 1,399,206; Dec. 6.
- Gallagher, John P., Jersey City, N. J., assignor to Victor Equipment Co., Inc. Flush car-door. No. 1,375,689; Apr. 26; v. 285; p. 581.
- Gallagher, Peter, Butler, Pa. Car-replacer. No. 1,364,744; Jan. 4; v. 282; p. 134.
- Gallagher, Peter, Philadelphia, Pa. Animal-trap. No. 1,369,020; Feb. 22; v. 283; p. 562.
- Galland, Charles N., and W. A. Kelsey, assignors to Multi color Printing and Machinery Company, Minneapolis, Minn. Multicoloring-printing press. No. 1,382,773; June 28; v. 287; p. 630.
- Galland, Frank W. (See Frykman, August, assignor.)
- Galland-Henning Mfg. Co. (See Nelson, K. O. and Albert, assignors.)
- Galleazzi, Joseph, San Francisco, Calif. Educational and amusement device. No. 1,386,248; Aug. 2; v. 289; p. 57.
- Gallimore, Wilburn A., South Clinchfield, Va. Reboring-machine. No. 1,375,839; Apr. 26; v. 285; p. 609.
- Gallerani, Alexander, assignor to H. J. Heinz Company, Pittsburgh, Pa. Method of and apparatus for drying macaroni and the like. No. 1,388,702; Aug. 23; v. 289; p. 723.
- Galligan, Edward H., New York, N. Y. Hammer. No. 1,365,778; Jan. 18; v. 282; p. 418.
- Gallimore, John, Edinburgh, Scotland. Variable-speed change-gear indicator. No. 1,379,757; May 31; v. 286; p. 819.
- Gallinek, Laura, New York, N. Y. Knife. No. 1,372,807; Mar. 29; v. 284; p. 791.
- Gallo, Thomas, New York, N. Y. Camera. No. 1,398,072; Nov. 22.
- Galloupe, John H., Denver, assignor to The Galloupe Shale Process Company, Grand Junction, Colo. Vertical oil-shale-treating retort. No. 1,365,822; Jan. 18; v. 282; p. 427.
- Galloupe Shale Process Company, The. (See Galloupe, John H., assignor.)
- Galloway, Charles D. (See Smith, E. W., Galloway, and Ambruster.)
- Galloway, Charles D., Philadelphia, Pa. Storage-battery plate or electrode. No. 1,370,014; Mar. 1; v. 284; p. 50.
- Galloway, Charles D., Philadelphia, Pa. Storage battery. No. 1,376,932; May 3; v. 286; p. 105.
- Galloway, George, Cleveland, Ohio. Arch-support. No. 1,401,066; Dec. 20.
- Galloways Limited. (See Crowe, Henry, assignor.)
- Galavan, Edward, assignor to A. L. Randall Co., Chicago, Ill. Illuminated liquid-container. No. 1,389,182; Aug. 30; v. 289; p. 863.
- Galvin, Ethelyn V. (See Moore, E., assignor.)
- Galvin, John E. (See Priwer, Herman F., assignor.)
- Galt, Hubert, Lake Forest, Ill. Device for making coffee, tea, or similar beverages. No. 1,400,214; Dec. 13.
- Gamble, John A., assignor of one-fifth to J. B. Arata, Chicago, Ill. Caster and the like. No. 1,375,379; Apr. 19; v. 285; p. 489.
- Gamble, Joseph W., Boone, Iowa. Tractor-binder hitch. (Reissue.) No. 15,219; Nov. 8.
- Gamble, Joseph W., assignor, by mesne assignments, to H. S. B. W.-Cochrane Corporation, Philadelphia, Pa. Water-heater. No. 1,395,981; Nov. 1.
- Gamble, Ray and E. J. Sliter, Tacoma, Wash. Prepared fish-eggs. No. 1,392,253; Sept. 27; v. 290; p. 771.
- Gambis, Joseph, Lyon, France. Electric generator for motor-vehicles. No. 1,391,679; Sept. 27; v. 290; p. 655.
- Gamevell Fire Alarm Telegraph Company, The. (See Stanley, Vincent C., assignor.)
- Gamille, James F., Fredericktown, Pa. Mine-ventilating appliance. No. 1,372,500; Mar. 22; v. 284; p. 690.
- Gamille, James F., Fredericktown, Pa. Ventilating signal appliance for mines. No. 1,395,954; Nov. 1.
- Gammell, Alexander. (See Hanney, Angus F., assignor.)
- Gammeter, John R. (See Crook, C. M., and Gammeter.)
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-vulcanizing method and apparatus. No. 1,386,465; Aug. 2; v. 289; p. 98.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-vulcanizing method and apparatus. No. 1,387,381; Aug. 9; v. 289; p. 354.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Reinforced rubber article. No. 1,394,300; Oct. 18.
- Gammeter, William F., Cadiz, Ohio. Stock-roll. No. 1,392,321; Oct. 4.
- Gams, Alfons, and O. Kaiser, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Aralkyl ester of 2-phenylquinolin-4-carboxylic acid. No. 1,378,343; May 17; v. 286; p. 484.
- Gamse, H., & Bro. (See Brock, Addison W., assignor.)
- Gander, James S., Forest Gate, England. Rotary scraping-tool. No. 1,386,249; Aug. 2; v. 289; p. 58.
- Gander, James S., Forest Gate, England. Safety device for oil-burning apparatus. No. 1,393,212; Oct. 11.
- Gandion, Louis D., San Francisco, Calif. Truss. No. 1,397,863; Nov. 22.
- Ganelin, Solomon, Brooklyn, N. Y. Treating complex zinc-lead ores. No. 1,396,740; Nov. 15.
- Gangloff, Jean, Levallois-Perret, France. Motor-car. No. 1,385,611; July 26; v. 288; p. 693.
- Ganley, William, assignor to Radium Dial Company, Pittsburgh, Pa. Indicating and identifying means. No. 1,377,065; May 3; v. 286; p. 131.
- Gannett, George B., et al. (See Bernhard, Hieronymus, assignor.)
- Gans, Leonard S., New York, N. Y. Device for lightening and securing round-wire box-strapping. No. 1,400,046; Dec. 13.
- Gansert, Frederick and H., Jr., Syracuse, N. Y. Forming and aligning type on the type-bars of typewriting-machines. No. 1,380,709; June 7; v. 287; p. 73.
- Gansert, Herman, Jr. (See Gansert, Frederick and H., Jr.)
- Ganster, Joseph A., Philadelphia, Pa. Roller-bearing. No. 1,374,560; Apr. 12; v. 285; p. 270.
- Gantt, Henry L., Roseland, Va. Spark-arrester for tobacco-drying houses. No. 1,383,927; July 5; v. 288; p. 138.
- Ganz, Emil. (See Müller, K., and Ganz.)
- Ganzhorn, Philip, Chicago, Ill. Knife. No. 1,375,501; Apr. 19; v. 285; p. 513.
- Gapp, Albert J., Wales, N. D. Binder attachment. No. 1,381,984; June 21; v. 287; p. 427.
- Garbarini, André. (See Maucclair, L., Garbarini, and Gautier.)
- Garbe, Lester G., San Francisco, Calif. Frame for printers' form. No. 1,398,544; Nov. 29.
- Garbell, Max, assignor to Garbell Typewriter Corporation, Chicago, Ill. Combined paper-feed and finger-releasing mechanism for typewriters. No. 1,374,999; Apr. 19; v. 285; p. 416.
- Garbell Typewriter Corporation. (See Garbell, Max, assignor.)
- Garber, Elmer, Rochester, N. Y. Strainer. No. 1,370,425; Mar. 1; v. 284; p. 127.
- Garber, Ray A. (See Garber, Samuel H., and R. A.)
- Garber, S. H., Goshen, Ind., and R. A. Canton, Ill. Hay-loader. No. 1,365,392; Jan. 11; v. 282; p. 303.
- Garbeth, William O., Stockton, Calif. Raising device. No. 1,365,097; Jan. 11; v. 282; p. 246.
- Garbis, Spiro D., Calcutta, British India. Mouthpiece for liquid-receptacles. No. 1,384,315; July 12; v. 288; p. 268.
- Garbo, Nils F., Minneapolis, Minn. Ballot-assembling mechanism. No. 1,379,298; May 24; v. 286; p. 739.
- Garbutt, Harry L. (See Siemon, W. H., and Garbutt.)
- Garbutt, Harry L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-hanger. No. 1,374,561; Apr. 12; v. 285; p. 270.
- Garceau, Theode, Three Rivers, Quebec, Canada. Buckle. No. 1,394,195; Oct. 18.
- Garcelon, George H., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Connector. No. 1,379,681; May 31; v. 286; p. 885.
- Garcelon, G. H., Swissvale, and C. A. M. Weber, Edgewood Park, Pa., assignors to Westinghouse Electric & Manufacturing Company. Single-phase alternating-current commutator-motor. No. 1,400,047; Dec. 13.
- Garcia, Felice A., Pueblo, Colo. Gate. No. 1,365,165; Jan. 11; v. 282; p. 260.
- Garcillán, Ciriaco, New York, N. Y. Advertising device. No. 1,374,005; Apr. 5; v. 285; p. 122.
- Gard, Grant G., Overton, Nebr. Box-strap. No. 1,367,038; Feb. 1; v. 283; p. 31.
- Garden City Plating & Manufacturing Company. (See Kurtzon, Morris, assignor.)
- Gardener, Henry, Paterson, N. J. Water-supply valves. No. 1,365,906; Jan. 18; v. 282; p. 143.
- Gardi, Solomon, Seattle, Wash. Combination-suit. No. 1,367,182; Feb. 1; v. 283; p. 59.
- Gardiner, Edwin S., New Orleans, La. Drip-coffee. No. 1,389,299; Aug. 30; v. 289; p. 897.
- Gardiner, James, et al. (See Waithman, Charles H., assignor.)
- Gardiner, Norman B., Staten Island, N. Y. Fluid-measuring apparatus. No. 1,387,701; Aug. 16; v. 289; p. 469.
- Gardiner, William, Chicago, Ill., assignor to B. W. Wickey, East Chicago, Ind. Electrolyte for storage batteries. No. 1,374,916; Apr. 19; v. 285; p. 401.



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- Gardiner, William, assignor, by mesne assignments, to D-G Storage Co., Chicago, Ill. Electrolyte for storage batteries. No. 1,389,750; Sept. 6; v. 290; p. 38.
- Gardiner, William C., Barnstable, England. Control device applicable to aircraft, marine steering-gear, and other apparatus. No. 1,389,347; Aug. 30; v. 289; p. 907.
- Gardiner, William H., Albany, N. Y., assignor, by mesne assignments, to The Peter Smith Heater Company. Car-stoves. No. 1,388,330; Aug. 23; v. 289; p. 631.
- Gardner, Alphons G., Los Angeles, Calif. Pressure-bar for piano-strings. No. 1,375,146; Apr. 19; v. 285; p. 445.
- Gardner, Arlie G., Memphis, Mo. Farm-gate lock and latch. No. 1,369,737; Feb. 22; v. 283; p. 701.
- Gardner, Benjamin F., Chicago, Ill. System for removing obstructions to the flow of fluid in the earth strata adjacent to wells. No. 1,372,743; Mar. 29; v. 284; p. 778.
- Gardner, Charles F. (See Cartwright, Ernest O., assignor.)
- Gardner, Charles H., Jr., Oakland, Calif. Agricultural implement. No. 1,383,294; July 5; v. 288; p. 7.
- Gardner, Cyril R. P., and H. Parker, London, England. Caster. No. 1,386,250; Aug. 2; v. 289; p. 58.
- Gardner, Daniel, Newburgh, N. Y. Paper take-up for typewriting-machines. No. 1,364,103; Jan. 4; v. 282; p. 11.
- Gardner, Elliott, Colonie, assignor to Albany Boat Corporation, Watervliet, N. Y. Speed-boat. No. 1,396,831; Nov. 15.
- Gardner, Ernest D., Maltby, Wash. Dishcloth-holder. No. 1,369,095; Feb. 22; v. 283; p. 576.
- Gardner, Florida, Salt Lake City, Utah. Speed-indicator for motor-vehicles. No. 1,396,186; Nov. 8.
- Gardner, Frank V., Cincinnati, Ohio. Pneumatic tire. No. 1,372,417; Mar. 22; v. 284; p. 675.
- Gardner, Fred G., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,380,374; June 7; v. 287; p. 10.
- Gardner, George W., Bridgeport, Conn. Child's swing. No. 1,369,799; Mar. 1; v. 284; p. 9.
- Gardner, George W., Bridgeport, Conn. Corset-clasp. No. 1,390,776; Sept. 13; v. 290; p. 336.
- Gardner, Henry A. (See Barton, L. E., and Gardner.)
- Gardner, Henry A. (See Biellouss, Elias, assignor.)
- Gardner, Henry A., Washington, D. C. Vehicle for paints and the like and making the same. No. 1,370,106; Mar. 1; v. 284; p. 68.
- Gardner, Henry A., Washington, D. C. Fumigant paint. No. 1,373,499; Apr. 5; v. 285; p. 24.
- Gardner, Henry A., Washington, D. C. Fabric for airships and making same. No. 1,381,412; June 14; v. 287; p. 259.
- Gardner, Henry A., Washington, D. C. Fabric for airships and making same. No. 1,381,413; June 14; v. 287; p. 259.
- Gardner, Henry A., and E. Biellouss, Washington, D. C.; said Biellouss assignor to said Gardner. Preparation of drying oils from hydrocarbons. No. 1,384,447; July 12; v. 288; p. 296.
- Gardner, Horace C., Chicago, and F. A. Lindberg, Evans-ton, Ill. Refrigerating apparatus. No. 1,373,231; Mar. 20; v. 284; p. 876.
- Gardner, Howard S., East Orange, N. J. Hoisting apparatus. No. 1,365,979; Jan. 18; v. 282; p. 458.
- Gardner, James P., Chicago, Ill. Body-treatment machine. No. 1,367,544; Feb. 8; v. 283; p. 190.
- Gardner, Joseph, and C. Y. Knight, London, England; said Gardner assignor to said Knight. Tool for slotting commutators. No. 1,366,784; Jan. 25; v. 282; p. 660.
- Gardner, Levi S., Detroit, Mich. Flying-machine. No. 1,384,668; July 12; v. 288; p. 330.
- Gardner, Patrick, Brooklyn, N. Y. Mattress. No. 1,393,619; Oct. 11.
- Gardner, Sydney B., Benson, Minn. Trench-wall-supporting machine. No. 1,391,624; Sept. 20; v. 290; p. 570.
- Gardner, Thomas E. (See Touchstone, B. F., Gardner, Bangle, Sullivan, and Hardin.)
- Gardon, Ambrose, Peterson, Saskatchewan, Canada. Insect trap. No. 1,385,267; July 19; v. 288; p. 534.
- Garela, Ignaci, Brooklyn, N. Y. Screw-propeller. No. 1,377,827; May 10; v. 286; p. 334.
- Garelli, Adalberto, Milan, Italy. Starting device for engines of motorcycles. No. 1,366,531; Jan. 25; v. 282; p. 610.
- Garelli, Adalberto, Milan, Italy. Engine for motorcycles and the like. No. 1,377,879; May 10; v. 286; p. 344.
- Garay, John E. (See Goyette, William E., assignor.)
- Garfield, Edward L., Tuckahoe, N. Y. Fan or blower. No. 1,381,819; June 14; v. 287; p. 336.
- Garfield, James R., trustee. (See Stuart, Arthur C., assignor.)
- Gargott, George L., Mount Pleasant, Mich. Tractor transmission mechanism. No. 1,400,048; Dec. 13.
- Garl, Manious, Akron, Ohio. Electric relay. No. 1,379,549; May 24; v. 286; p. 786.
- Gark, Manious, Akron, Ohio. Fire alarm system. No. 1,399,760; Dec. 13.
- Garland, Arlington J. (See Ellis, W. F., and Garland.)
- Garland, Claude M., Chicago, Ill. Scleroscope for testing the hardness or strain in glass due to insufficient annealing. No. 1,370,738; Mar. 8; v. 284; p. 232.
- Garland, Claude M., Chicago, Ill. Apparatus for devolatilizing coal, wood, shales, &c. No. 1,391,825; Sept. 27; v. 290; p. 684.
- Garland, Harrison W., Bay City, Mich. Mechanical golf-teaching device. No. 1,399,761; Dec. 13.
- Garland, William F., New York, N. Y. Carrying drum or reel. No. 1,390,286; Sept. 13; v. 290; p. 238.
- Garland, William W. (See Fasel, C., and Garland.)
- Garman, Charles F., Ventura, Calif. Apricot-cutter. No. 1,365,166; Jan. 11; v. 282; p. 260.
- Garman, Harry B., Detroit, Mich., assignor to Charles E. Thompson, Cleveland, Ohio. Driving mechanism. No. 1,389,042; Aug. 30; v. 289; p. 846.
- Garner, Frank. (See Long, Charles, assignor.)
- Garner, Gin Company, The. (See Garner, James C., assignor.)
- Garner, Henry and J. P., Birmingham, England. Wheel of motor-tractors. No. 1,401,530; Dec. 27.
- Garner, Isaac T., Calera, Ala. Eyeglass-holder. No. 1,370,806; Mar. 8; v. 284; p. 246.
- Garner, James B. (See Anderson, J. B., Garner, and Shaner.)
- Garner, James C., assignor, by mesne assignments, to The Garner Gin Company, Inc., Houston, Tex. Cotton-separator. No. 1,397,001; Nov. 15.
- Garner, James P. (See Garner, Henry and J. P.)
- Garner, Welborn C., Edmonton, Alberta, Canada. Heater. No. 1,396,104; Nov. 8.
- Garner, Welborn C., Edmonton, Alberta, Canada. Electrical heating element. No. 1,396,105; Nov. 8.
- Garnett, Richard, Oakland, Calif. Separable rim for tires. No. 1,390,610; Sept. 13; v. 290; p. 303.
- Garnett, Thomas W., Topeka, Kans. Attachment for blow-torches. No. 1,393,999; Oct. 18.
- Garnier, Frederick J., St. Helier, Jersey, British Isles. Sliding window. No. 1,386,859; Aug. 9; v. 289; p. 250.
- Garnier, Léonce, San Sebastian, Spain. Vacuum-feed tank for internal-combustion engines. No. 1,374,442; Apr. 12; v. 285; p. 247.
- Garns, Victor D. (See Spink, C. H., and Garns.)
- Garon, Israel, Duluth, Minn. Textile fabric. No. 1,373,880; Apr. 5; v. 285; p. 98.
- Garr, Samuel R., Chula, Mo., assignor to American Smelting and Refining Company, New York, N. Y. Granulating converter-slag. No. 1,378,223; May 17; v. 286; p. 461.
- Garr, Samuel R., and R. F. Barker, Garfield, Utah, assignor to American Smelting & Refining Company. Removing accretions. No. 1,389,751; Sept. 6; v. 290; p. 38.
- Garrabrant, Lillian B., Brooklyn, N. Y. Curtain-holder. No. 1,377,066; May 3; v. 286; p. 131.
- Garrard, William B., Victoria, British Columbia, Canada, assignor of one-fourth to A. C. Backall and one-fourth to T. F. Adams, Seattle, Wash. Car-fender. No. 1,389,943; Sept. 6; v. 290; p. 78.
- Garratt, Walter A., Covington, Ky. Pneumatic horn. No. 1,391,887; Sept. 27; v. 290; p. 696.
- Garred, Ulysses V., Lexington, Ky. Memorandum attachment for albums. No. 1,374,646; Apr. 12; v. 285; p. 287.
- Garred, Ulysses V., Louisa, Ky. Memorandum attachment for albums. No. 1,381,114; June 14; v. 287; p. 205.
- Garretson, Harry D., New York, N. Y. Transformer. No. 1,367,957; Feb. 8; v. 283; p. 268.
- Garrett, Berton A., Ballston Spa, N. Y., assignor to General Electric Company. Gearing. No. 1,394,080; Oct. 18.
- Garrett, Carlton M. (See Garrett, Myers A., assignor.)
- Garrett, Charles A., Philadelphia, Pa. Machine for printing and forming caps for containers. No. 1,365,679; Jan. 18; v. 282; p. 398.
- Garrett & Company. (See Smith, B. H., and Eoff, assignors.)
- Garrett Drain Pan Company. (See Garrett, William I., assignor.)
- Garrett, Gordon E., Salt Lake City, Utah. Dust-cover for tire-valves. No. 1,381,627; June 14; v. 287; p. 298.
- Garrett, James O., Denver, Colo. Truck-brake. No. 1,393,013; Oct. 11.
- Garrett, John B., Troy, N. Y. Daylight X-ray-film-developing tank. No. 1,393,108; Oct. 11.
- Garrett, John B., Troy, N. Y. Film-envelop. No. 1,393,109; Oct. 11.
- Garrett, Marvin, Pensacola, Fla. Tabulating attachment for typewriters. No. 1,382,971; June 28; v. 287; p. 668.
- Garrett, Myers A., Chicago, Ill., assignor to C. M. Garrett, New York, N. Y. Valve mechanism for tank-cars. No. 1,399,608; Dec. 6.
- Garrett, Robert E., Nashville, Tenn. Gear-cutting machine. No. 1,397,372; Nov. 15.
- Garrett, William I., assignor to Garrett Drain Pan Company, Union City, Tenn. Drain-pan. No. 1,396,416; Nov. 8.
- Garrett, William S., Richmond, Va. Portable derrick. No. 1,399,424; Dec. 6.
- Garrety, William P. (See Murlin, J. R., and Garrety.)



## Alphabetical list of patentees—Continued.

- Garrigue, William, & Company. (See Bodman, J. W., and Godfrey, assignors.)
- Garrison, Charles E. (See Hays, E. F., and Garrison.)
- Garrison, George H., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Safety device for firearms. No. 1,389,944; Sept. 6; v. 290; p. 78.
- Garrison, Lloyd, Salt Lake City, Utah. Automatic furnace control. No. 1,372,877; Mar. 29; v. 284; p. 806.
- Garrison, Lloyd, Salt Lake City, Utah. Automatic furnace. No. 1,386,698; Aug. 9; v. 289; p. 217.
- Garrison, Lyle, St. Louis, Mo., assignor of one-half to L. G. Slocum, Washington, D. C. Self-bailing well-tool. No. 1,399,108; Dec. 6.
- Garrison, Orlando. (See Ross, D. E., and Garrison.)
- Garrison, Perry J., Oxford, Mich. Means for cooling internal-combustion engines. No. 1,396,953; Nov. 15.
- Garrison, Henry R., Logansport, Ind. Basket. No. 1,388,556; Aug. 23; v. 289; p. 694.
- Garrow, Gustavus, Watervliet, N. Y. Riding-head. No. 1,396,187; Nov. 8.
- Garson, Issic H., Detroit, Mich. Advertising device. No. 1,378,538; May 17; v. 286; p. 521.
- Garson, Peter M., Philadelphia, Pa. Emergency-tire. No. 1,394,410; Oct. 18.
- Garst, Dudley, Waterloo, Iowa. Spreading device. No. 1,396,106; Nov. 8.
- Garst, Stephen H., Moline, Ill. Soil-tillage. No. 1,396,037; Nov. 8.
- Garstin, George H., assignor to Phenix Cheese Company, Sidney, N. Y. Cheese and sterilizing same. No. 1,368,624; Feb. 15; v. 283; p. 446.
- Garth, George A., Nuwara Eliya, Ceylon. Signal for use on vehicles. No. 1,399,955; Dec. 13.
- Garthing, George, Los Angeles, Calif. Cable-pump. No. 1,389,428; Aug. 30; v. 289; p. 923.
- Gartner, John H. (See Gartner, P. H., and J. H.)
- Gartner, Paul H. and J. H., Lava Hot Springs, Idaho. Work and display stand. No. 1,387,253; Aug. 9; v. 289; p. 326.
- Gartside, John, Seattle, Wash. Thermostatic valve. No. 1,386,466; Aug. 2; v. 289; p. 98.
- Garlung, Frederick H., et al. (See Allington, John L., assignor.)
- Garven, Elmer, Coulterville, Ill. Paint-pail-supporting device. No. 1,398,861; Nov. 29.
- Garver, Allen J., Clarkston, Wash. Apparatus for treating cinnabar ore. No. 1,369,738; Feb. 22; v. 283; p. 702.
- Garver, James L., Buffalo, N. Y. Resilient wheel. No. 1,367,596; Feb. 8; v. 283; p. 199.
- Garver, Joseph L. (See Howe, Charles W., assignor.)
- Garver, Joseph P., Charleston, Ill. Radiator-protector. No. 1,399,859; Dec. 13.
- Garver, Uriah D., assignor to G. J. Büchler, Philadelphia, Pa. Starting and ignition system. No. 1,395,809; Nov. 1.
- Garvey, Charles J., Port Henry, N. Y. Chain-fastening device. No. 1,401,067; Dec. 20.
- Garwood, Annie M., deceased, by order of court and mesne assignments, to F. B. Waller, Kansas City, Mo. Baby toilet-cabinet. No. 1,390,956; Dec. 13.
- Garwood Company. (See Karitzky, John, assignor.)
- Garwood, William M., assignor to Miller-Saw-Trimmer Company, Pittsburgh, Pa. Beveling device. No. 1,385,782; July 26; v. 288; p. 727.
- Garv, Edward S., Jr., Baltimore, Md. Bunch-builder for winding-machines. No. 1,378,171; May 17; v. 286; p. 452.
- Gary, Howland R. (See Cummings, Henry H., assignor.)
- Garza, Daniel, New Orleans, La. House construction. No. 1,386,251; Aug. 2; v. 289; p. 58.
- Garza, Pablo G., San Antonio, Tex. Drier. No. 1,384,996; July 19; v. 288; p. 491.
- Gas Combustion Company, The. (See Caracristi, Virginus Z., assignor.)
- Gas Machinery Company, The. (See Rugg, Daniel M., assignor.)
- Gas Research Company, The. (See Smith, Harry F., assignor.)
- Gasau, Otto J., assignor to Gasau-Thompson Company, Inc., Brooklyn, N. Y. Mattress fabric. No. 1,373,232; Mar. 29; v. 284; p. 876.
- Gasau, Otto J., assignor to Gasau-Thompson Company, Inc., Brooklyn, N. Y. Wire mattress fabric. No. 1,373,233; Mar. 29; v. 284; p. 877.
- Gasau-Thompson Company. (See Gasau, Otto J., assignor.)
- Gasche, Ferdinand G., Chicago, Ill. Perfecting ingots. No. 1,368,332; Feb. 15; v. 283; p. 388.
- Gasche, Ferdinand G., Chicago, Ill. Machine for perfecting ingots. No. 1,389,300; Aug. 30; v. 289; p. 897.
- Gascon, Malcolm E., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,395,991; Nov. 1.
- Gasia, Stephen A. and D. R. Cahill, Bethlehem, Pa. Graphic recording mechanism for spinning-machines. No. 1,397,578; Nov. 22.
- Gase, Eugene, assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Flour-sifter. No. 1,379,550; May 24; v. 286; p. 786.
- Gase, Eugene, assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Baker's proportionate flour feeder and mixer. No. 1,383,793; July 5; v. 288; p. 112.
- Gase, George A., assignor of one-third to F. E. Herman, Cleveland, Ohio. Refrigerating apparatus. No. 1,369,800; Mar. 1; v. 284; p. 9.
- Gase, George A., East Cleveland, and E. A. Seymer, Cleveland, Ohio. Refrigerating system and operating the same. No. 1,371,235; Mar. 15; v. 284; p. 389.
- Gase, George A., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Sheet-metal wheel. No. 1,384,128; July 12; v. 288; p. 230.
- Gash, William D., et al. (See Law, William E., assignor.)
- Gasiorek, Leopold. (See Hlazar, F., and Gasiorek.)
- Gaskell, William H., G. C. Dawson, and T. V. Lewis, St. Paul, Minn. Multiple-cylinder explosive-engine. No. 1,368,031; Feb. 8; v. 283; p. 282.
- Gasoline Recovery Corporation. (See Burrell, G. A., Voress, and Canter, assignors.)
- Gaspar, Arthur D., Waukesha, Wis. Envelop shipping-label. No. 1,401,399; Dec. 27.
- Gaspar, Frank, Cupar, Saskatchewan, Canada. Cable and telephone-wire containing rails. No. 1,401,531; Dec. 27.
- Gaspard, Charles G., et al. (See Warrington, William J., assignor.)
- Gaspard, Eugene C., Cleveland, Ohio. Vehicle-wheel. No. 1,380,138; May 31; v. 286; p. 971.
- Gass, Frank. (See Benziger, R., and Gass.)
- Gass, South W., Tenino, Wash. Amusement device. No. 1,371,887; Mar. 15; v. 284; p. 516.
- Gassenhuber, Alois, Jr., South Milwaukee, Wis. Pump. No. 1,381,115; June 14; v. 287; p. 205.
- Gassett, W. J. (See Dell, Phillip J., Jr., assignor.)
- Gassette, Grace, Chicago, Ill. Surgical or orthopedic appliance for the treatment of the ankle. No. 1,383,928; July 5; v. 288; p. 139.
- Gassie, Henry J. (See Lowry, Frank J., assignor.)
- Gaston, Alanson D., Washington, D. C. Combined nut and bolt lock. No. 1,391,378; Sept. 20; v. 290; p. 521.
- Gaston, Ralph M., Chicago, Ill. Differential gear. No. 1,371,361; Mar. 15; v. 284; p. 414.
- Gaston, Ralph T., Greensboro, N. C. Apparatus for the manufacture of acid phosphate. No. 1,385,126; July 19; v. 288; p. 518.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Covering-thread mechanism for sewing-machines. No. 1,365,238; Jan. 11; v. 282; p. 274.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Stitch-forming mechanism for sewing-machines. No. 1,365,239; Jan. 11; v. 282; p. 274.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Needle-guard for sewing-machines. No. 1,388,943; Aug. 30; v. 289; p. 826.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Trimming mechanism for sewing-machines. No. 1,397,002; Nov. 15.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for multiple-needle sewing-machines. No. 1,397,507; Nov. 22.
- Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Presser-foot for sewing-machines. No. 1,400,537; Dec. 20.
- Gates, Andrew W., Monmouth, Ill. Die for making articles of plastic material. No. 1,393,014; Oct. 11.
- Gates, Charles C., Denver, Colo. Belt-making process. No. 1,400,538; Dec. 20.
- Gates, Charles C., Denver, Colo. Endless belt. No. 1,400,539; Dec. 20.
- Gates, Frederic P., assignor to The Arrow Electric Company, Hartford, Conn. Electric switch. No. 1,371,782; Mar. 15; v. 284; p. 496.
- Gates, Henry C., Cedar Rapids, Iowa. Chocolate-cooling machine. No. 1,375,380; Apr. 19; v. 285; p. 490.
- Gates, James C. (See Shirlow, Albert E., assignor.)
- Gates, James C. (See Welford, Leslie W., assignor.)
- Gates, John F., Corcoran, Calif. Pump control. No. 1,376,270; Apr. 26; v. 285; p. 692.
- Gates, John W., assignor of one-half to C. M. Searcy, Swifton, Ark. Sadiron. No. 1,393,888; Sept. 27; v. 290; p. 697.
- Gates, Laud C. (See Green, W. F., and Gates.)
- Gates, Laurence, Elyria, Ohio. Burial-vault. No. 1,376,615; May 3; v. 286; p. 45.
- Gates, Major E., Terra Cotta, Ill. Producing ornamental surfaces. No. 1,399,425; Dec. 6.
- Gates, Norwood, Mineral Wells, Tex. Display-stand. No. 1,388,033; Aug. 16; v. 289; p. 534.
- Gates, Philetus W., Chicago, Ill., assignor to Mumford Molding Machine Company. Combination jolt ramming and squeezing machine. No. 1,381,912; June 21; v. 287; p. 414.
- Gates, Philetus W., Evanston, Ill., assignor to Mumford Molding Machine Company. Molding-machine. No. 1,385,676; July 26; v. 288; p. 706.
- Gates, Philetus W., assignor to Hanna Engineering Works, Chicago, Ill. Molding-machine. No. 1,400,282; Dec. 13.
- Gates, Quincy A. (See Bunnell, W. O., and Gates.)
- Gates, Quincy A., Wilkes-Barre, Pa. Jar and closure therefor. No. 1,365,167; Jan. 11; v. 282; p. 260.



- Gatewood, William B., Huntington, W. Va., and V. P. Dahmas, Ashland, Ky. Metallic railway-tie. No. 1,367,183; Feb. 1; v. 283; p. 60.
- Gatewood, William F., Pierce City, Mo., assignor to G. L. Middleton, Venice, Calif. Gate. No. 1,379,094; May 24; v. 286; p. 700.
- Gathman, Monte B., Shelbyville, assignor to A. Vonnegut, Indianapolis, Ind. Feeding device. No. 1,390,777; Sept. 13; v. 290; p. 336.
- Gatrell, Edward T., and C. R. Neill, Tulsa, Okla. Roof. No. 1,369,236; Feb. 22; v. 283; p. 604.
- Gaudy, R. Jarvis. (See Sessions, Edson O., assignor.)
- Gault, Henry, Strassburg, France, assignor of one-half to P. Drinker, Bethlehem, Pa. Applying coated fabrics to objects. No. 1,394,890; Oct. 25.
- Gaumont, Leon, Paris, France. Method and apparatus for using dissimilar films. No. 1,385,912; July 26; v. 288; p. 753.
- Gaunt, Charles F., Birmingham, England. Combined medal ribbon-bar and medal-suspender. No. 1,377,676; May 10; v. 286; p. 304.
- Gaunt, Walter F., Birmingham, England. Medal-ribbon bar. No. 1,380,892; June 7; v. 287; p. 109.
- Gauntt, Forest G., Fort Wayne, Ind. Motor-vehicle headlight. No. 1,393,278; Oct. 11.
- Gauntt, Walter E., Pine Hill, Ky. Angle-bar for rail-joints. No. 1,374,497; Apr. 12; v. 285; p. 257.
- Gauntt, Warren S., St. Louis, and B. B. Morris, Kansas City, Mo. Reinforcement for tire-casings. No. 1,364,928; Jan. 11; v. 282; p. 214.
- Gauriat, Pierre S., assignor to Etablissements Continsouza (Societe Anonyme), Paris, France. Safety device for cinematographic apparatus. No. 1,367,958; Feb. 8; v. 283; p. 268.
- Gauriat, Pierre S., assignor to Etablissements Continsouza (Societe Anonyme), Paris, France. Shutter for cinematographic apparatus. No. 1,388,423; Aug. 23; v. 289; p. 670.
- Gauriat, Pierre S., assignor to Etablissements Continsouza (Societe Anonyme), Paris, France. Arrangement for registering images in cinematographic projecting apparatus. No. 1,389,824; Sept. 6; v. 290; p. 53.
- Gaus, Wilhelm, and W. Wild, Ludwigshafen-on-the-Rhine, Germany, assignor to A. Kuttrof, New York, N. Y. Manufacturing nitrogen-hydrogen mixtures. No. 1,390,200; Sept. 6; v. 290; p. 129.
- Gausewitz, William H., Minneapolis, Minn., and H. B. Cummings, Prescott, Wis.; said Cummings assignor to said Gausewitz. Closet. No. 1,383,295; July 5; v. 288; p. 8.
- Gauss, Henry C., Washington, D. C. Cryptography. No. 1,379,551; May 24; v. 286; p. 787.
- Gauthier, Ernest, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Clutch mechanism for power-driven punch-presses. No. 1,387,972; Aug. 16; v. 289; p. 522.
- Gautier, Georges. (See Maclaure, L., Garbarini, and Gautier.)
- Gauzenhuber, John N., Altoona, Pa. Combined shade-roller and curtain-supporting bracket. No. 1,397,806; Nov. 22.
- Gavey, Joseph, *et al.* (See Lukens, W. R., and Gallagher, assignors.)
- Gavin, John H., assignor, by mesne assignments, to Wolff Manufacturing Company, Chicago, Ill. Valve-stem for the valves of compression-cocks and the like. No. 1,392,411; Oct. 4.
- Gavin, Peter, Vancouver, British Columbia, Canada. Tube-expander. No. 1,393,620; Oct. 11.
- Gavin, William H. (See Low, D., and Gavin.)
- Gavlak, Joseph G., Monongahela, Pa. Roundabout. No. 1,368,132; Feb. 8; v. 283; p. 801.
- Gawthrop, Pearle R., Sr., Adrian, W. Va. Water or muck bailer. No. 1,401,903; Dec. 27.
- Gay, Carleton B. (See Stanley, E. S., and Gay.)
- Gay, Herman T., Baltimore, Md. Detachable spout. No. 1,370,739; Mar. 8; v. 284; p. 233.
- Gay, Richard H., Washington, D. C. Holder for checks and vouchers. No. 1,377,415; May 10; v. 286; p. 255.
- Gaylor, William M. (See Kinsman, H. H., and Gaylor.)
- Gayner Glass Works. (See Gayner, John M., assignor.)
- Gayner, John M., assignor to Gayner Glass Works, Salem, N. J. Bottle-crate. No. 1,379,010; May 24; v. 286; p. 685.
- Gaynor, Arthur C., Stratford, Conn. Hinge for door-plates and other structures. No. 1,378,944; May 24; v. 286; p. 672.
- Gaynor, John J., assignor to Meier-Gaynor Manufacturing Co., Indianapolis, Ind. Bottle-crown. No. 1,381,628; June 14; v. 287; p. 299.
- Gazda, Adolph A., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,376,426; May 3; v. 286; p. 10.
- Gazda, Adolph A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Elevator-control system. No. 1,390,526; Sept. 13; v. 290; p. 286.
- Gazo, John, Detroit, Mich. Railway construction. No. 1,401,068; Dec. 20.
- Geake, Harry J., Victoria, British Columbia, Canada. Auxiliary exhaust-port. No. 1,394,411; Oct. 18.
- Gear Grinding Machine Company, The. (See Gagarin, Andrew A., assignor.)
- Gearhart, Claude L., Williamson, W. Va. Fastener for bat-form springs. No. 1,369,418; Feb. 22; v. 283; p. 688.
- Gearhart, Roy E., and P. Steffens, St. Joseph, Mo. Money-changer. No. 1,369,801; Mar. 1; v. 284; p. 9.
- Gebauer, Charles L., Cleveland, Ohio. Metallic article. No. 1,395,269; Nov. 1.
- Gebert, Carl F., New York, N. Y. Amusement device. No. 1,380,893; June 7; v. 287; p. 109.
- Gebhard, August L. (See Carroll, E. C., and Huffman, assignors.)
- Gebhard, Conrad, Munich, Germany, assignor to "Asfag" Aktiengesellschaft, Glarus, Switzerland. Automatic locking device. No. 1,378,447; May 17; v. 286; p. 503.
- Gebhard, Conrad, Munich, Germany, assignor to "Asfag" Aktiengesellschaft, Glarus, Switzerland. Window-operating mechanism. No. 1,387,432; Aug. 9; v. 289; p. 364.
- Gebhardt, Charles L., Green, Kans. Grain-saving attachment for threshing-machines. No. 1,382,901; June 28; v. 287; p. 654.
- Gebhardt, Edward J., Hoboken, N. J. Sled. No. 1,391,312; Sept. 20; v. 290; p. 508.
- Gebhardt, Henry J., Chicago, Ill. Piston and cylinder construction for engines or pumps. No. 1,364,929; Jan. 11; v. 282; p. 214.
- Gebhardt, William, San Antonio, Tex. Making stock food from cactus. No. 1,394,162; Oct. 18.
- Geddes, Albert H., Brooklyn, N. Y. Auxiliary traction device for motor-vehicles. No. 1,398,015; Nov. 22.
- Geddes, Charles A., assignor to Explorer Manufacturing Corporation, Philadelphia, Pa. Carbonator and draft-arm for soda-water. No. 1,397,929; Nov. 22.
- Geddes, Daniel B., Newark, N. J. Antirattle for windows. No. 1,385,208; July 19; v. 288; p. 535.
- Gedney, Stanley L., Maplewood, N. J. Collar-pin. No. 1,374,006; Apr. 5; v. 285; p. 122.
- Gedney, Stanley L., Maplewood, N. J. Collar-fastener. No. 1,374,007; Apr. 5; v. 285; p. 123.
- Geel Electric Company. (See Morris, Stephen W., assignor.)
- Geel, Frederick S., London, England. Display device. No. 1,395,982; Nov. 1.
- Geel, Frederick W., Harrow, England. Animal foodstuff. No. 1,365,393; Jan. 11; v. 282; p. 303.
- Geel, Norman E., Altoona, Pa., assignor to American Arch Company, New York, N. Y. Locomotive-arch. No. 1,369,096; Feb. 22; v. 283; p. 576.
- Geel, Thomas J., Leamington Spa, England. Band-cutter and feeder for threshing-machines. No. 1,370,740; Mar. 8; v. 284; p. 233.
- Geel, William J., Tulse Hill, London, England. Variable-speed gear and disengaging-coupling. No. 1,372,069; Mar. 22; v. 284; p. 608.
- Geer, Frederick M. (See Geer, Harrie S., assignor.)
- Geer, Glenn L., Elmira, N. Y. Sheet-music turner. No. 1,374,147; Apr. 5; v. 285; p. 149.
- Geer, Harrie S., assignor of one-half to F. M. Geer, Troy, N. Y. Folding clothes-rack. No. 1,401,532; Dec. 27.
- Geer, Harry R., Johnstown, Pa. Rolling-mill. No. 1,364,989; Jan. 11; v. 282; p. 226.
- Geer, Harry R., Johnstown, Pa. Roll-carriage for rolling-mills. No. 1,369,334; Feb. 22; v. 283; p. 622.
- Geer, Harry R., Johnstown, Pa. Dial-indicator. No. 1,384,802; July 19; v. 288; p. 451.
- Geer, Harry R., Johnstown, Pa. Universal mill. No. 1,392,489; Oct. 4.
- Geer, Harry R., Johnstown, Pa. Rolling-mill lubrication. No. 1,397,163; Nov. 15.
- Geer, Henry E., London, England. Steam-superheater. No. 1,364,272; Jan. 4; v. 282; p. 44.
- Geer, Paul L., Bellevue borough, assignor to Amsler-Morton Company, Pittsburgh, Pa. Muffe-leer construction. No. 1,385,868; July 26; v. 288; p. 744.
- Geer, William C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Gas-mask. No. 1,364,104; Jan. 4; v. 282; p. 11.
- Geer, William C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber article and making the same. No. 1,382,774; June 28; v. 287; p. 631.
- Geer, William C., N. S. Noble, and E. S. Teed, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Gas-mask. No. 1,371,236; Mar. 15; v. 284; p. 389.
- Geese, Elmer E., Fresno, Calif. Device for splitting figs. No. 1,377,828; May 10; v. 286; p. 334.
- Geesman, Wilbur H., Youngstown, assignor of forty-eight one-hundredths to Arthur G. McKee & Company, Cleveland; twenty-six one-hundredths to F. E. Kling, Youngstown, and twenty-six one-hundredths to L. B. Weidlein, Cleveland, Ohio. Apparatus for washing gas. No. 1,388,812; Aug. 23; v. 289; p. 745.
- Geesman, Wilbur H., Youngstown, assignor of forty-eight one-hundredths to Arthur G. McKee & Company, Cleveland; twenty-six one-hundredths to F. E. Kling, Youngstown, and twenty-six one-hundredths to L. B. Weidlein, Cleveland, Ohio. Means for washing gas. No. 1,388,813; Aug. 23; v. 289; p. 745.
- Geesman, Wilbur H., Youngstown, and A. G. McKee, Cleveland, Ohio. Method of and means for burning air and gas. No. 1,388,944; Aug. 30; v. 289; p. 826.



*Alphabetical list of patentees—Continued.*

- Gégauff, Charles H., assignor to La Societe Anonyme "Dollfus-Mieg & Cie." Mulhouse, France. Skein forming and boxing machine. No. 1,399,109; Dec. 6.
- Gehan, Robert E. (See Megow, E. J., Day and Gehan.)
- Gehenniaux, Arthur. (See Beck, Charles L., assignor.)
- Gehr, Ray S., Cleveland, Ohio. Planter. No. 1,400,738; Dec. 20.
- Gehr, Ray S., Cleveland, Ohio. Planter. No. 1,400,739; Dec. 20.
- Gehr, Ray S., Cleveland, Ohio. Planter. No. 1,400,740; Dec. 20.
- Gehrke, Otto, Winesap, Wash. Clasp. No. 1,395,102; Oct. 25.
- Gehrmann, Elizabeth M., Bellingham, Wash. Ash-pan No. 1,369,739; Feb. 22; v. 283; p. 702.
- Geib, Carl A., assignor of one-half to A. Richter, New York, N. Y. Window-cupboard. No. 1,387,382; Aug. 9; v. 289; p. 351.
- Geier, Leo J., St. Henry, Ohio. Elevator. No. 1,374,728; Apr. 12; v. 285; p. 302.
- Geier, P. A., Company, The. (See Geier, Philip A., assignor.)
- Geier, P. A., Company, The. (See Robertson, Frank E., assignor.)
- Geier, Philip A., assignor to The P. A. Geier Company, Cleveland, Ohio. Dust-receptacle for vacuum cleaning apparatus. No. 1,383,615; July 5; v. 288; p. 74.
- Geier, Philip A., and Frank E. Robertson, assignors to The P. A. Geier Company, Cleveland, Ohio. Handle member. No. 1,397,682; Nov. 22.
- Geiger, Clarence H., and T. E. Dunwoody, Pressmen's Home, Tenn. Method of and means for dampening plate-cylinders in offset-process printing-presses. No. 1,377,769; May 10; v. 286; p. 322.
- Geiger, David F., assignor of one-third to A. D. Cole, Minneapolis, Minn. Means for operating power-transmitters. No. 1,396,954; Nov. 15.
- Geiger, Frederick J., and A. E. Davis, Philadelphia, Pa.; said Geiger assignor to said Davis. Centering supporting device. No. 1,366,726; Jan. 25; v. 282; p. 648.
- Geiger, Tracy E., Troy, Ohio. Steering device for vehicles. No. 1,366,123; Jan. 18; v. 282; p. 485.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner. Chazy, N. Y. Refrigerator-door-operating mechanism. No. 1,372,681; Mar. 29; v. 284; p. 766.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner. Chazy, N. Y. Retaining member for antifriction elements in side bearings. No. 1,372,682; Mar. 29; v. 284; p. 766.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner. Chazy, N. Y. Hand-brake for railway-cars. No. 1,378,852; May 24; v. 286; p. 655.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner. Chazy, N. Y. Side bearing. No. 1,378,853; May 24; v. 286; p. 655.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner. Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,386,776; Aug. 9; v. 289; p. 232.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner. Chazy, N. Y. Side bearing for railway-cars. No. 1,387,254; Aug. 9; v. 289; p. 326.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner. Chazy, N. Y. Reversibly-operable hand-brake. No. 1,391,052; Sept. 20; v. 290; p. 455.
- Geiger, William A., Chicago, Ill., assignor to W. H. Miner. Chazy, N. Y. Door-check. No. 1,397,206; Nov. 15.
- Geisdorf, Frank C., Los Angeles, Calif. Spring-tire. No. 1,386,564; Aug. 2; v. 289; p. 117.
- Geisenhöner, Henry, Schenectady, N. Y., assignor to General Electric Company. Electric heating apparatus. No. 1,394,891; Oct. 25.
- Geiser, Daniel S., Waynesboro, Pa. Lock. No. 1,368,713; Feb. 15; v. 283; p. 468.
- Geisler, Alexander L., Bristol, R. I. Locking hook. No. 1,391,625; Sept. 20; v. 290; p. 570.
- Geisler, Hugo P., New York, N. Y. Metal container. No. 1,398,261; Nov. 29.
- Geissinger, Jesse E., Shaler township, near Millvale, Allegheny county, Pa. Attachment for clothes-wringers. No. 1,365,907; Jan. 18; v. 282; p. 444.
- Geissinger, Jesse E., Shaler township, near Millvale, Allegheny county, Pa. Clothes-wringer attachment. No. 1,371,156; Mar. 8; v. 284; p. 311.
- Gelst, Carlton. (See Wiederwax, Robert W., assignor.)
- Gelst, George, New York, N. Y. Boat-hull. No. 1,379,552; May 24; v. 286; p. 787.
- Geist Manufacturing Company. (See Wiederwax, Robert W., assignor.)
- Gelstert, Albert G., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Steering-gear-supporting bracket. No. 1,368,427; Feb. 15; v. 283; p. 407.
- Geitz, Fred, Jr., Ellington, Mo. Means employed in accounting systems. No. 1,392,930; Oct. 11.
- Gelbert, Alfred, assignor to American Chemical Laboratories, Chicago, Ill. Resonant diaphragm and making same. No. 1,377,677; May 10; v. 286; p. 304.
- Gelineau, Wilfrid, Wadena, Saskatchewan, Canada. Grain-door for box-cars. No. 1,397,279; Nov. 15.
- Gellman, Hyman, New York, N. Y. Safety-lock for foot-levers. No. 1,384,251; July 12; v. 288; p. 255.
- Geltz, William T., Cleveland, Ohio. Workman's time-recorder. No. 1,389,641; Sept. 6; v. 290; p. 16.
- Gem City Stove Manufacturing Company. (See Specht, Adolph A., assignor.)
- Gem Crib & Cradle Company. (See Shufleton, Wilford P., assignor.)
- Gem Manufacturing Company. (See Logan, Albert L., assignor.)
- Gemmer, George A., Newark, N. J. Automobile-brake adjuster. No. 1,397,373; Nov. 15.
- Gendarme, Toussaint, assignor to Societe Anonyme John Cockerill, Seraing, Belgium. Mechanism for starting gas-engines. No. 1,392,139; Sept. 27; v. 290; p. 748.
- Gendron, Samuel J., Nashua, N. H. Hook. No. 1,369,647; Feb. 22; v. 283; p. 684.
- General Aluminum & Brass Mfg. Company. (See Eggenweiler, Charles W., assignor.)
- General American Tank Car Corporation. (See Parks, Ostrander J., assignor.)
- General American Tank Car Corporation. (See Weaver, Robert R., assignor.)
- General Automatic Scale Company, The. (See Schaper, Henry C., assignor.)
- General Bakelite Company. (See Baekeland, Leo H., assignor.)
- General Briquetting Company. (See Gilmore, Thomas, Jr., assignor.)
- General Ceramics Company. (See Scharl, John, assignor.)
- General Chemical Co. (See Stahl, Karl F., assignor.)
- General Chemical Company. (See Adamson, George P., assignor.)
- General Chemical Company. (See Baird, Dudley, assignor.)
- General Chemical Company. (See De Jahn, Fredrik W., assignor.)
- General Chemical Company. (See Merriam, Henry F., assignor.)
- General Chemical Company. (See Riegel, Clarence W., assignor.)
- General Chemical Company. (See Slama, F., and Wolf, assignors.)
- General Chemical Company. (See Weekes, William F., assignor.)
- General Electric Company. (See Abbott, Charles C., assignor.)
- General Electric Company. (See Alexanderson, E. F. W., and Nixdorff, assignors.)
- General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
- General Electric Company. (See Armor, James C., assignor.)
- General Electric Company. (See Arnold, Lyman, assignor.)
- General Electric Company. (See Axtell, Clinton J., assignor.)
- General Electric Company. (See Bailey, Percy S., assignor.)
- General Electric Company. (See Baldwin, Henry S., assignor.)
- General Electric Company. (See Batchelder, Asa F., assignor.)
- General Electric Company. (See Baum, William, assignor.)
- General Electric Company. (See Beck, Heinrich, assignor.)
- General Electric Company. (See Beckert, Albert R., assignor.)
- General Electric Company. (See Beman, Ralph, assignor.)
- General Electric Company. (See Bergman, Sven R., assignor.)
- General Electric Company. (See Berry, Arthur F., assignor.)
- General Electric Company. (See Beverage, Harold H., assignor.)
- General Electric Company. (See Bower, George W., assignor.)
- General Electric Company. (See Burnham, Locke H., assignor.)
- General Electric Company. (See Chatain, Henri G., assignor.)
- General Electric Company. (See Childs, Albert T., assignor.)
- General Electric Company. (See Clark, O. R., and Franklin, assignors.)
- General Electric Company. (See Clinker, R. C., assignor.)
- General Electric Company. (See Collins, Edgar F., assignor.)
- General Electric Company. (See Coolidge, W. D., and Wagner, assignors.)
- General Electric Company. (See Coolidge, William D., assignor.)
- General Electric Company. (See Creighton, E. E. F., and Shavor, assignors.)
- General Electric Company. (See Creighton, Elmer E. F., assignor.)
- General Electric Company. (See Dantsizen, Christian, assignor.)
- General Electric Company. (See Dawson, William F., assignor.)
- General Electric Company. (See De Reamer, Frank C., assignor.)



*Alphabetical list of patentees—Continued.*

General Electric Company. (See Dwyer, William O., assignor.)  
 General Electric Company. (See Elder, Matthew L., assignor.)  
 General Electric Company. (See Emmet, William L. R., assignor.)  
 General Electric Company. (See Faccioli, Giuseppe, assignor.)  
 General Electric Company. (See Fiego, Alexander J. R., assignor.)  
 General Electric Company. (See Forster, Frank T., assignor.)  
 General Electric Company. (See Fortin, Paul R., assignor.)  
 General Electric Company. (See Frank, John J., assignor.)  
 General Electric Company. (See French, Henry G., assignor.)  
 General Electric Company. (See Friederich, Ernst, assignor.)  
 General Electric Company. (See Garrett, Berton A., assignor.)  
 General Electric Company. (See Geisenhöner, Henry, assignor.)  
 General Electric Company. (See Gilson, Emery G., assignor.)  
 General Electric Company. (See Goldsmith, A. N., and Weinberger, assignors.)  
 General Electric Company. (See Hall, Chester I., assignor.)  
 General Electric Company. (See Halvorson, Cromwell, A. B., assignor.)  
 General Electric Company. (See Halvorson, Cromwell, A. B., Jr., assignor.)  
 General Electric Company. (See Hamilton, William S. H., assignor.)  
 General Electric Company. (See Harrison, Ward, assignor.)  
 General Electric Company, The. (See Harvey, Charles H., assignor.)  
 General Electric Company. (See Heisler, Charles L., assignor.)  
 General Electric Company. (See Hendricks, Allan B., Jr., assignor.)  
 General Electric Company. (See Hentschel, Charles T.)  
 General Electric Company. (See Hill, Charles H., assignor.)  
 General Electric Company. (See Hobart, Henry M., assignor.)  
 General Electric Company. (See Hoxie, Charles A., assignor.)  
 General Electric Company. (See Hull, Albert W., assignor.)  
 General Electric Company. (See Isono, Tatsuihiro, assignor.)  
 General Electric Company. (See Jacobs, Ernest H., assignor.)  
 General Electric Company. (See Johannesen, Svend E., assignor.)  
 General Electric Company. (See Johnson, Werner, assignor.)  
 General Electric Company. (See Junggren, Oscar, assignor.)  
 General Electric Company. (See Kelley, Floyd C., assignor.)  
 General Electric Company. (See Kierstead, Friend H., assignor.)  
 General Electric Company. (See Knight, Arthur F., assignor.)  
 General Electric Company. (See Knoderer, Homer G., assignor.)  
 General Electric Company. (See Korthals-Altes, Willem C., assignor.)  
 General Electric Company. (See Laird, Wesley E., assignor.)  
 General Electric Company. (See Laise, Clemens A., assignor.)  
 General Electric Company. (See Langmuir, Irving, assignor.)  
 General Electric Company. (See Lec, Corliss E., assignor.)  
 General Electric Company. (See Loewenstein, Louis C., assignor.)  
 General Electric Company. (See Long, M. E., and Katzung, assignors.)  
 General Electric Company. (See Lorenz, Charles F., assignor.)  
 General Electric Company. (See Macloskie, George, assignor.)  
 General Electric Company. (See Martin, John, assignor.)  
 General Electric Company. (See McGrath, Thomas J., assignor.)  
 General Electric Company. (See McKay, John A., assignor.)  
 General Electric Company. (See McLain, Robert H., assignor.)  
 General Electric Company. (See McNairy, Jacob W., assignor.)  
 General Electric Company. (See Montsinger, Vincent M., assignor.)  
 General Electric Company. (See Moore, Roy W., assignor.)

General Electric Company. (See Moss, Sanford A., assignor.)  
 General Electric Company. (See Murphy, Edwin J., assignor.)  
 General Electric Company. (See O'Neil, James A., assignor.)  
 General Electric Company. (See Pacz, Aladar, assignor.)  
 General Electric Company. (See Palmer, Robert, assignor.)  
 General Electric Company. (See Payne, John H., Jr., assignor.)  
 General Electric Company. (See Penthyeny, G. W., and Petrovsky, assignors.)  
 General Electric Company. (See Peterson, Charles F., assignor.)  
 General Electric Company. (See Pierce, H. T. and McPhee, assignors.)  
 General Electric Company. (See Pragst, Ernest W., assignor.)  
 General Electric Company. (See Pratt, John B., assignor.)  
 General Electric Company. (See Pressey, Wilbur A., assignor.)  
 General Electric Company. (See Reichold, Ludwig, assignor.)  
 General Electric Company. (See Rice, Chester W., assignor.)  
 General Electric Company. (See Roberts, James L., assignor.)  
 General Electric Company. (See Rushmore, David B., assignor.)  
 General Electric Company. (See Samuelson, Frederick, assignor.)  
 General Electric Company. (See Schilling, Walter W., assignor.)  
 General Electric Company. (See Sclater, Ivanhoe H., assignor.)  
 General Electric Company. (See Seede, John A., assignor.)  
 General Electric Company. (See Shroyer, Jacob L., assignor.)  
 General Electric Company. (See Smith, Arthur R., assignor.)  
 General Electric Company. (See Stearns, Ralph W., assignor.)  
 General Electric Company. (See Steenstrup, Christian, assignor.)  
 General Electric Company. (See Stemmons, Beverly L., assignor.)  
 General Electric Company. (See Stephens, Howard O., assignor.)  
 General Electric Company. (See Stone, C. W., and Hobart, assignors.)  
 General Electric Company. (See Strickland, Royal F., assignor.)  
 General Electric Company. (See Sugimura, Nobuchika, assignor.)  
 General Electric Company. (See Taylor, H. W., and Clough, assignors.)  
 General Electric Company. (See Thompson, Benjamin H., assignor.)  
 General Electric Company. (See Thompson, Louis W., assignor.)  
 General Electric Company. (See Thomson, Elihu, assignor.)  
 General Electric Company. (See Traver, Oliver C., assignor.)  
 General Electric Company. (See Tritle, John F., assignor.)  
 General Electric Company. (See Tritle, Joseph F., assignor.)  
 General Electric Company. (See Troy, Matthew O., assignor.)  
 General Electric Company. (See Unger, Magnus, assignor.)  
 General Electric Company. (See Van Aller, Tycho, assignor.)  
 General Electric Company. (See Wagner, Edward A., assignor.)  
 General Electric Company. (See Webster, Samuel T., assignor.)  
 General Electric Company. (See Welch, Alfred F., assignor.)  
 General Electric Company. (See White, William C., assignor.)  
 General Electric Company. (See Wilkinson, James, assignor.)  
 General Electric Company. (See Winston, Earle G., assignor.)  
 General Electric Company. (See Winter, Fred H., assignor.)  
 General Electric Company. (See Wood, James J., assignor.)  
 General Electric Company, assignee. (See Hill, George H.) (Reissue.)  
 General Electric Company Limited, The. (See McColl, Albert E., assignor.)  
 General Engineering Company. (See Genter, Albert L., assignor.)  
 General Explosives Company. (See Sturgis, William B., assignor.)



*Alphabetical list of patentees—Continued.*

- General Fire Extinguisher Company. (See Brumbaugh, John H., assignor.)
- General Fire Extinguisher Company. (See Hartwell, Joseph C., assignor.)
- General Fire Extinguisher Company. (See Loepsinger, Albert J., assignor.)
- General Fireproofing Company, The. (See White, H. E., and Philibin, assignors.)
- General Fuel Apparatus Corporation. (See Hoffman, William M., assignor.)
- General Gas Light Company. (See Humphrey, Alfred H., assignor.)
- General Indurating Corporation. (See Lander, Wintworth V., assignor.)
- General Lead Batteries Company. (See Andreae, Edward F., assignor.)
- General Lead Batteries Company. (See Gould, David F., assignor.)
- General Machine & Manufacturing Company. (See Hjorth, David, assignor.)
- General Machinery Foundations Company. (See Akimoff, Nicholas W., assignor.)
- General Motorcycle Sales Company. (See Waterman, C. A., and Smith, assignors.)
- General Motors Company. (See Johnson, Chester F., assignor.)
- General Motors Company. (See Short, Charles R., assignor.)
- General Motors Corporation. (See Canniff, William L., assignor.)
- General Motors Corporation. (See Currier, Howard S., assignor.)
- General Motors Corporation. (See Forbes, Kingston, assignor.)
- General Motors Corporation. (See Geistert Albert G., assignor.)
- General Motors Corporation. (See Goodwin, Edward W., assignor.)
- General Motors Corporation. (See Lea, John M., assignor.)
- General Motors Corporation. (See Madison, George E., assignor.)
- General Motors Corporation. (See Marinier, G. P., and Chrysler, assignors.)
- General Motors Corporation. (See Perlman, Louis H., assignor.)
- General Motors Corporation. (See Short, Charles R., assignor.)
- General Motors Corporation. (See White, John W., assignor.)
- General Motors Corporation. (See White, John W., Jr., assignor.)
- General Motors Corporation. (See Whitten, Frank A., assignor.)
- General Optical Company. (See Clement, George A., assignor.)
- General Ordnance Co., The. (See Giles, Julian A., assignor.)
- General Petroleum Corporation. (See Prutzman, P., and Goodwin, assignors.)
- General Petroleum Corporation. (See Prutzman, Paul W., assignor.)
- General Phonograph Corporation. (See Vasselli, Anthony, assignor.)
- General Railway Signal Company. (See Bushnell, Charles S., assignor.)
- General Railway Signal Company. (See Dodgson, Frank L., assignor.)
- General Railway Signal Company. (See Howe, W. K., Henry, and Hall, assignors.)
- General Railway Signal Company. (See Howe, Winthrop K., assignor.)
- General Railway Signal Company. (Reissue.) (See Howe, Winthrop K., assignor.)
- General Railway Signal Company. (See Leake, Richard C., assignor.)
- General Railway Signal Company. (See Preston, Neil D., assignor.)
- General Railway Signal Company. (See Wuerpel, Morris, assignor.)
- General Research Laboratories. (See Moisan, Alfred J., assignor.)
- General Rim Company. (See Moyer, Fredellia H., assignor.) (Reissue.)
- General Rubber Goods Co., The. (See Sharkey, Albert E., assignor.)
- General Tire & Rubber Company, The. (See Denmire, Harold A., assignor.)
- General Wire Tie Co. (See Warwick, Rogers M., assignor.)
- Geneste, Philippe, Chateau de Chapeau Corn, Vignieu, France. Stepped lenticular system for heat and light concentrating to be used on flying-machines. No. 1,390,258; Sept. 6; v. 290; p. 139.
- Genett, Louis J., Marquette, Mich. Trap-setting tool. No. 1,365,478; Jan. 11; v. 282; p. 320.
- Genge, Frederick C., Chicago, Ill. Method of and machine for filling containers with springs. No. 1,370,533; Mar. 8; v. 284; p. 192.
- Genge, Frederick C., assignor to Marshall Ventilated Mattress Company, Chicago, Ill. Automobile-cushions construction. No. 1,370,886; Mar. 8; v. 284; p. 260.
- Genn, John E., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Magnetic damper for speedometers. No. 1,367,690; Feb. 8; v. 283; p. 217.
- Gent, Edgar W. (See Dobbin, H. F., and Gent.)
- Gent, Edgar W., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical regulating device. No. 1,383,799; July 5; v. 288; p. 112.
- Gent, Edgar W., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrically-operated timing apparatus. No. 1,391,947; Sept. 27; v. 290; p. 709.
- Genter, Albert L., assignor of one-half to General Engineering Company, Salt Lake City, Utah. Continuous thickening process. No. 1,379,095; May 24; v. 286; p. 700.
- Genth, Charles H., and W. Kline, Philadelphia, Pa. Combined measuring and dispensing device. No. 1,392,490; Oct. 4.
- Gentile, Lawrence. (See Winchenbaugh, L. P., and Gentile.)
- Gentis, Herman, Victoria, British Columbia, Canada. Incubator. No. 1,395,955; Nov. 1.
- Gentner, William H., Farmington, Iowa. Currency. No. 1,394,081; Oct. 18.
- Genton, Aime, assignor of one-third to R. L. Schmitt, Louisville, Ky. Wheel construction. No. 1,379,859; May 31; v. 286; p. 918.
- Genton, Aime, assignor of one-third to R. L. Schmitt, Louisville, Ky. Loose-wheel mount. No. 1,379,860; May 31; v. 286; p. 919.
- Gentry, Burney C., Freeport, Tex. Traction-support. No. 1,401,689; Dec. 27.
- Gentry, Charles L., Oskaloosa, Kans. Tie-slide and collar-button. No. 1,367,871; Feb. 8; v. 283; p. 253.
- Genung, George J., assignor of one-half to W. G. Klein, Beaver Falls, Pa. Test-indicator. No. 1,391,731; Sept. 27; v. 290; p. 666.
- Geoffrion, Victor. (See Gagnon, Joseph H., assignor.)
- Geoffrion, Victor, L'Assomption, Quebec, Canada. Filing-cabinet for plans. No. 1,391,313; Sept. 20; v. 290; p. 508.
- Geoghegan, Edward A., San Francisco, Calif., assignor to M. Kraemer and E. J. Talbott, trustees. Steam-superheater. No. 1,367,691; Feb. 8; v. 283; p. 217.
- Geometric Tool Co., The. (See Breitenstein, Albert F., assignor.)
- Geometric Tool Company, The. (See Fraser, James, assignor.)
- George, Alfred K., assignor of one-half to S. V. Burrows, Dayton, Ohio. Grapefruit-shield. No. 1,372,224; Mar. 22; v. 284; p. 638.
- George, Barnett L., Salt Lake City, Utah. Concentrating ores by flotation. No. 1,375,957; Apr. 26; v. 285; p. 632.
- George, Charles L., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Sight-arm attachment for excavating-machines. No. 1,395,810; Nov. 1.
- George, Edward A., Shreveport, La. Rotary bit. No. 1,388,424; Aug. 23; v. 289; p. 670.
- George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling and yoke connection. No. 1,367,039; Feb. 1; v. 283; p. 31.
- George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Draft-yoke. No. 1,394,163; Oct. 18.
- George, Enoch, Jr., assignor to The McConway & Torley Company, Pittsburgh, Pa. Car coupling and draft-yoke connection. No. 1,399,609; Dec. 6.
- George, Enoch, Jr., Pittsburgh, and I. H. Milliken, Aspinwall, assignors to The McConway & Torley Company, Pittsburgh, Pa. Coupling and yoke connection. No. 1,399,610; Dec. 6.
- George, Ernest A., Chelsea, England. Ball and float valve. No. 1,388,331; Aug. 23; v. 289; p. 651.
- George, Frank L., Los Angeles, assignor of one-fourth to B. J. Neill, San Francisco, Calif. Self-adjusting wire flange for piano-actions. No. 1,382,828; June 28; v. 287; p. 640.
- George Harold M., et al. (See Cave, Daniel B., assignor.)
- George, Henri, Paris, France. Mercury-lamp. No. 1,398,545; Nov. 29.
- George, J. H., and E. A. Hawthorne, Bridgeport, Conn.; said George assignor to said Hawthorne. Lighting apparatus. No. 1,379,337; May 24; v. 286; p. 747.
- George, John H., assignor to E. A. Hawthorne, Bridgeport, Conn. Electric-lighting apparatus. No. 1,390,201; Sept. 6; v. 290; p. 129.
- George, John H., assignor to E. A. Hawthorne, Bridgeport, Conn. Electric-lighting apparatus. No. 1,393,357; Oct. 11.
- George, John W., Stroud Green, England. Rotary internal-combustion engine. No. 1,395,995; Nov. 1.
- George, Kimber A., Philadelphia, Pa. Combined brush and holder. No. 1,379,758; May 31; v. 286; p. 899.
- George, Leon W., St. Louis, Mo., assignor to Howe Safety Appliance Company, Granite City, Ill. Finger-guard. No. 1,375,690; Apr. 26; v. 285; p. 582.
- George, Maude S., St. Louis, Mo. Catamential apron. No. 1,386,777; Aug. 9; v. 289; p. 232.
- George, Ollie C., Chicago, Ill. Dumping-body. No. 1,389,642; Sept. 6; v. 290; p. 17.



*Alphabetical list of patentees—Continued.*

- George Ralph D., Kansas City, Mo. Transmission-gearing. No. 1,391,314; Sept. 20; v. 290; p. 508.
- George, William B., Chicago, Ill. Molding-machine. No. 1,386,104; Aug. 2; v. 289; p. 29.
- George, William H., assignor to The Dexter Company, Fairfield, Iowa. Gearing. No. 1,387,973; Aug. 16; v. 289; p. 522.
- Georgelis, George H., Moultrieville, S. C. Tree-pruning machine. No. 1,364,432; Jan. 4; v. 282; p. 75.
- Georger, Clifford H., Buffalo, N. Y. Vehicle-signal. No. 1,394,000; Oct. 18.
- Georgeson, Franklin T., C. E. Tabor, and L. B. Poyfaire, Eureka, Calif. Furring-strip. No. 1,389,866; Sept. 6; v. 290; p. 61.
- Georgi, Carl H., Nyack, N. Y. Airplane. No. 1,368,133; Feb. 8; v. 283; p. 302.
- Georgi, Constantin, Zehlendorf, near Berlin, Germany, assignor to V. B. Moler, Yonkers, N. Y. Regeneration of old or waste rubber. No. 1,385,869; July 26; v. 288; p. 745.
- Geppack, Paul, assignor of one-half to J. Sawa, Warren, Ohio. Compasses. No. 1,396,417; Nov. 8.
- Gepp, Herbert W., assignor to Electrolytic Zinc Company of Australasia Proprietary Limited, Melbourne, Victoria, Australia. Treatment of zinc-bearing ores. No. 1,395,811; Nov. 1.
- Gerace, Gaetano, Windsor, Ontario, Canada. Willow-bark stripping machine. No. 1,399,957; Dec. 13.
- Gerard, Julian M., and H. J. Masson, Jr., New York, N. Y.; said Masson assignor to said Gerard. Production of lampblack. No. 1,364,273; Jan. 4; v. 282; p. 45.
- Gerber, Edward V., Leavenworth, Kans. Multiple looking-glass. No. 1,395,812; Nov. 1.
- Gerber, James J. (See Cooley, Fred W., assignor.)
- Gerber, John L., Pittsburgh, Pa. Die-casting apparatus. No. 1,376,090; Apr. 26; v. 285; p. 658.
- Gerber, Max. (See Bloom, H., Gerber, and Piterman.)
- Gerber, Ralph, Raymond, Wash. Differential gearing. No. 1,364,745; Jan. 4; v. 282; p. 134.
- Gerber, Walter, *et al.* (See Fahrni, Otto, assignor.)
- Gerberg, Morris, A. Hirsh, and M. Morgan, New York, N. Y., assignors to Atlas Doll & Toy Co., Inc., Baltimore, Md. Automaton. No. 1,387,482; Aug. 16; v. 289; p. 424.
- Gerberich, Clarence E., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Tray. No. 1,370,741; Mar. 8; v. 284; p. 233.
- Gerdeman, Frank H., Findlay, Ohio. Draft appliance for tractors. No. 1,379,759; May 31; v. 286; p. 899.
- Gerdeman, Frank H., Findlay, Ohio. Tractor control. No. 1,390,287; Sept. 13; v. 290; p. 238.
- Gerdes, Herman, Benkelman, Nebr. Animal-poke. No. 1,365,394; Jan. 11; v. 282; p. 304.
- Gerdes, Otto A., and E. Guth, Blue Island, Ill. Spark-intensifier. No. 1,365,168; Jan. 11; v. 282; p. 260.
- Gerdin, Olaf B., Seattle, Wash. Glass-cutter. No. 1,375,958; Apr. 26; v. 285; p. 632.
- Gerdine, Thomas G., West Falls Church, Va. Demountable rim. No. 1,392,009; Sept. 27; v. 290; p. 723.
- Gereke-Allen Carton Company. (See Gereke, Edward G., assignor.)
- Gereke, Edward G., St. Louis, Mo. Folding cardboard box. No. 1,383,929; July 5; v. 288; p. 139.
- Gereke, Edward G., assignor to Gereke-Allen Carton Company, St. Louis, Mo. Folding box. No. 1,364,839; Jan. 4; v. 282; p. 152.
- Gerfers, Richard P., San Antonio, Tex. Steering-wheel lock. No. 1,368,922; Feb. 15; v. 283; p. 503.
- Gerhard, Karl F., Hatton, Wash. Snap-book. No. 1,388,557; Aug. 23; v. 289; p. 695.
- Gerhard, William H., Austin, Tex. Rolling windshield. No. 1,380,894; June 7; v. 287; p. 109.
- Gerhart, Bayless W., assignor to United States Spray Company, San Bernardino, Calif. Tree-spray. No. 1,398,505; Nov. 29.
- Gerhart, Joe P., Sealy, Tex. Automobile-hood attachment. No. 1,368,923; Feb. 15; v. 283; p. 503.
- Gerken, Fred W., Mitchell, S. D. Advertising device for vehicles. No. 1,371,678; Mar. 15; v. 284; p. 477.
- Gerlach, Albert, Nordhausen, Germany. Rotary apparatus for treating loose material with gaseous fluids. No. 1,364,105; Jan. 4; v. 282; p. 11.
- Gerlach, Charles G., Spokane, Wash. Emergency automobile-tire. No. 1,385,612; July 26; v. 288; p. 693.
- Gerlach, Fred, *et al.*, trustees. (See Cameron, William W., assignor.)
- Gerlach, Fred, *et al.*, trustees. (See Lindgren, A. C., and Johnston, assignors.)
- Gerlach, Fred, *et al.*, trustees. (See Lindgren, Alexis C., assignor.)
- Gerlach, Fred, *et al.*, trustees. (See Steward, John F., assignor.)
- Gerlach, Oscar, Danville, Ill. Making insulating composition. No. 1,381,118; June 14; v. 287; p. 205.
- Gerlach, Oscar, Danville, and C. B. Lihme, Chicago, Ill., assignors to The Industrial Research Laboratories. Preparing plastic molding material. No. 1,390,435; Sept. 13; v. 290; p. 267.
- Gerlach, Rudolph P., Cleveland, Ohio. Barrel-stove-sawing machine. No. 1,379,682; May 31; v. 286; p. 885.
- Gerlach, Stephan G., Stratford, Conn. Automobile-lock. No. 1,389,499; Aug. 30; v. 289; p. 936.
- Gerleman, Oscar W., St. Louis, Mo. Treating cylinders and pistons. No. 1,398,775; Nov. 29.
- Gerli, Paul, New York, N. Y. Hydroplane-station. No. 1,392,931; Oct. 11.
- Germanow, Harry, Rochester, N. Y. Combination vise. No. 1,371,617; Mar. 15; v. 284; p. 465.
- Germar, Albert, Des Moines, Iowa. Automobile-lift. No. 1,383,800; July 5; v. 288; p. 113.
- Gernandt Motor Corporation. (See Gernandt, Waldo G., assignor.)
- Gernandt, Waldo G., South Bend, Ind., assignor to Gernandt Motor Corporation, Chicago, Ill. Two-cycle engine. No. 1,385,250; July 19; v. 288; p. 543.
- Gernsback, Hugo, New York, N. Y. Submersible amusement device. No. 1,394,750; July 19; v. 288; p. 440.
- Gernsback, Hugo, New York, N. Y. Apparatus for landing flying-machines. No. 1,392,140; Sept. 27; v. 290; p. 748.
- Gero, Paul E., Manistique, Mich. Detachable traction-tread. No. 1,375,584; Apr. 19; v. 285; p. 528.
- Geroianne, Francesco, San Antonio, Tex. Ship-protector. No. 1,395,813; Nov. 1.
- Geron, Stanley, Yorkville, N. Y. Fire-alarm. No. 1,382,185; June 21; v. 287; p. 463.
- Gerrard, Alec J. (See Boenning, William M., assignor.)
- Gerrard, Alec J. (See Wright, Parvin, assignor.)
- Gerrard, Alec J., New York, N. Y. Bundle-tying-wire stretcher. No. 1,372,684; Mar. 29; v. 284; p. 767.
- Gerrard, Alec J., Chicago, Ill. Bundling-machine. No. 1,380,791; June 7; v. 287; p. 89.
- Gerrard, Alec J., and F. Wright, Chicago, Ill. Automatic wire stretching and twisting machine. No. 1,391,826; Sept. 27; v. 290; p. 684.
- Gerrard, Frederick J., assignor of one-half to C. O. Hart, Monroe, Nebr. Portable fire-escape. No. 1,369,802; Mar. 1; v. 284; p. 9.
- Gerrard, Thomas, assignor of one-half to D. Kernan, Cortland, N. Y. Oil-burning furnace. No. 1,394,164; Oct. 18.
- Gerrie, Walter W., and J. B. Dawson; said Gerrie assignor of his entire right to L. Newport, Oakland, Calif. Burglar-alarm. No. 1,367,959; Feb. 8; v. 283; p. 268.
- Gerritson, Jacob, Kankakee, Ill. Packing or lining material and producing the same. No. 1,372,947; Mar. 29; v. 284; p. 820.
- Gersdorff, Albert L., Bartlesville, Okla. Temperature-indicating device. No. 1,393,279; Oct. 11.
- Gerson, Morris, Duluth, Minn. Apparatus for and method of making receptacles. No. 1,381,179; June 14; v. 287; p. 216.
- Gerstenberger, Frederick E., South Euclid, Ohio. Method and means for heating by carbon and hydrocarbon oils. No. 1,382,721; June 28; v. 287; p. 620.
- Gerstenberger, Frederick E., South Euclid, Ohio. Blowtorch. No. 1,391,774; Sept. 27; v. 290; p. 673.
- Gerstle, John, assignor to The Electro Chemical Company, Dayton, Ohio. Electrolytic cell. No. 1,395,704; Nov. 1.
- Gerstner, August, New York, N. Y. Attachment for nursing-bottles. No. 1,366,727; Jan. 25; v. 282; p. 649.
- Gertier, Hyman, Montreal, Quebec, Canada. Bed-frame. No. 1,370,301; Mar. 1; v. 284; p. 103.
- Gertler, Samuel E., Brooklyn, N. Y. Dry cell. No. 1,390,696; Sept. 13; v. 290; p. 320.
- Gervais, Charles E., Jacksonville, Fla. Cigar-lighter. No. 1,364,274; Jan. 4; v. 282; p. 45.
- Gervais, Joseph, Jr., Los Angeles, Calif. Supporting and protecting piano attachment. No. 1,389,825; Sept. 6; v. 290; p. 53.
- Gerwig, Stuart L., Rome, N. Y. Rail-clamp. No. 1,383,930; July 5; v. 288; p. 139.
- Geschwind, Lucien, assignor to Manufacture de Produits Chimiques du Nord, Etablissements Kuhlmann, Paris, France. Mechanical device for the removal of dust from the gases derived from roasting ores. No. 1,383,715; July 5; v. 288; p. 95.
- Gessert, Jacob, Buffalo, N. Y. Spring for pin-setting machines. No. 1,393,110; Oct. 11.
- Gest, William E., assignor to Ozone Company of America, Milwaukee, Wis. Ozone-fume-removing apparatus. No. 1,378,104; May 17; v. 286; p. 439.
- Gestetner, David, Tottenham Hale, London, England. Manifold, duplicating, and the like. No. 1,371,157; Mar. 8; v. 284; p. 311.
- Gestrich, Mathew, St. Louis, Mo. Collar-button. No. 1,373,234; Mar. 29; v. 284; p. 877.
- Getchell, Benjamin E., assignor to The Trumbull Electric Mfg. Co., Plainville, Conn. Meter-testing switch. No. 1,364,364; Jan. 4; v. 282; p. 61.
- Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Co., Plainville, Conn. Electromagnetic trip mechanism. No. 1,391,469; Sept. 20; v. 290; p. 539.
- Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Inclosed-switch construction. No. 1,393,111; Oct. 11.
- Getches, Raymond N., Glen Ridge, and I. Tornberg, Plainfield, N. J. Perfecting multicolor web-press. No. 1,374,196; Apr. 12; v. 285; p. 199.
- Getgey, John J., Tulsa, Okla. Device for hanging and pressing trousers. No. 1,400,741; Dec. 20.
- Gets Manufacturing Co. (See Barcus, George N., assignor.)



## Alphabetical list of patentees—Continued.

- Gettle, Homer R., and C. S. Scott, Bluffton, Ind. Ratchet mechanism. No. 1,386,400; Aug. 2; v. 289; p. 86.
- Getts, Eva J., administratrix. (See Getts, Frank E.)
- Getts, Frank E., deceased; E. J. Getts, administratrix, assignor to Electrical Engineers Equipment Company, Chicago, Ill. Bus-bar clamp. No. 1,380,550; June 7; v. 287; p. 43.
- Getz, Benjamin E., assignor to Getz Power Washer Co., Morton, Ill. Wringer mechanism for washing-machines. No. 1,380,551; June 7; v. 287; p. 43.
- Getz Power Washer Co. (See Getz, Benjamin E., assignor.)
- Gevers, Hermann, Kaukauna, Wis. Process and apparatus for digesting fibrous material. No. 1,385,744; July 26; v. 288; p. 720.
- Gewalt, William C., Racine, Wis. Accelerator-pedal. No. 1,399,054; Dec. 6.
- Geyer, John F., Philadelphia, Pa. Machine for filling bottles, &c. No. 1,401,150; Dec. 27.
- Geyer, Roy M., Picture Palace, Mussoorie, India. Automatic safety control for cinematograph and like machines. No. 1,384,947; July 19; v. 288; p. 480.
- Ghent, George A., Buhl, Idaho. Scraper and leveler. No. 1,396,038; Nov. 8.
- Gherardi, Bancroft, Bayhead, N. J., assignor to American Telephone and Telegraph Company. System for the equalization of transmission-lines. No. 1,396,930; Nov. 15.
- Gherassimoff, Nicolas, Germain en Laye, France. Progressive and reversible change-speed mechanism. No. 1,381,866; June 14; v. 287; p. 345.
- Giambrone, Louis, Buffalo, N. Y. Combined coal and gas pump. No. 1,384,059; July 12; v. 288; p. 215.
- Giampietro, Vincent, Baltimore, Md. Oil-extracting apparatus. No. 1,393,621; Oct. 11.
- Giaque, Pierre L. A., Levallois-Perret, assignors to Societe Anonyme Des Automobiles Et Cycles Peugeot, Paris, France. Back-pedaling brake for velocipedes. No. 1,382,902; June 28; v. 287; p. 654.
- Gibbard, Henry T., Highland Park, Mich. Jack. No. 1,379,011; May 24; v. 286; p. 685.
- Gibbard, Henry T., Highland Park, Mich. Jack. No. 1,379,012; May 24; v. 286; p. 685.
- Gibboney, D. Clarence, *et al.* (See Olsen, Oscar W., assignor.)
- Gibbons, Archie W., Kansas City, Mo. Automobile flow-line protector. No. 1,397,630; Nov. 22.
- Gibbons, Arthur J., assignor of one-third to S. B. Lindley and one-third to H. B. Hewitt, Indianapolis, Ind. Shock-absorber. No. 1,373,066; Mar. 29; v. 284; p. 843.
- Gibbons, Harry R. (See Chat, Frank J., assignor.)
- Gibbons, James W., Boston, Mass. Rotary measuring device. No. 1,369,740; Feb. 22; v. 283; p. 702.
- Gibbons, Nathan A., Martins Ferry, Ohio, assignor to Whitaker-Glessner Company, Wheeling, W. Va. Metal feed-trough. No. 1,365,479; Jan. 11; v. 282; p. 320.
- Gibbons, Sherwin, *et al.* (See Ziegler, George J., assignor.)
- Gibbs, Benedict T., Jr., assignor to Morden Frog & Crossing Works, Chicago, Ill. Rail-brace. No. 1,365,680; Jan. 18; v. 282; p. 398.
- Gibbs, Benedict T., Jr., assignor to Morden Frog & Crossing Works, Chicago, Ill. Rail-brace. No. 1,370,302; Mar. 1; v. 284; p. 104.
- Gibbs, Benedict T., Jr., assignor to Morden Frog & Crossing Works, Chicago, Ill. Adjustable-guard-rail brace-plate. No. 1,376,525; May 3; v. 286; p. 28.
- Gibbs, Benedict T., Jr., assignor to Morden Frog & Crossing Works, Chicago, Ill. Railway-crossing. No. 1,395,339; Nov. 1.
- Gibbs, Charles E., Manhattan, Kans. Timer-brush. No. 1,374,072; Apr. 5; v. 285; p. 135.
- Gibbs, Harry. (See Reynolds, R., and Gibbs.)
- Gibbs, Harry D. (See Ambler, J. A., and Gibbs.)
- Gibbs, John C., Lancaster, Pa. Ice-cream freezer. No. 1,392,412; Oct. 4.
- Gibbs, John C., assignor to Liberty Can & Sign Co., Inc., Lancaster, Pa. Ice-cream freezer. (Reissue.) No. 15,062; Mar. 15; v. 284; p. 538.
- Gibbs, John H., West Orange, N. J. Collapsible-tube holder. No. 1,374,845; Apr. 12; v. 285; p. 325.
- Gibbs, Walter A., Wilmington, Del. Support for traps. No. 1,375,286; Apr. 19; v. 285; p. 472.
- Gibbs, William E., Portland, Oreg. Crosscut-saw gage. No. 1,378,719; Apr. 5; v. 285; p. 65.
- Gibeault, George E., *et al.* (See Hopkins, Harvey L., assignor.)
- Giberson, Mason B., Saginaw, Mich. Wheel. No. 1,396,107; Nov. 8.
- Giberson, Murphy H., Milton, Wash. Safety-hook for logs. No. 1,373,235; Mar. 29; v. 284; p. 877.
- Gilbert, Frank N., Binghamton, N. Y., assignor of one-half to F. R. Gilbert, Philadelphia, Pa. Pocket pencil, pen, and pad holder. No. 1,386,700; Aug. 9; v. 289; p. 217.
- Gilford, Edward B., Littleton, N. H., assignor, by mesne assignments, to Adrian Carburetor Company, Adrian, Mich. Carbureter. No. 1,369,419; Feb. 22; v. 283; p. 639.
- Gibson, Ada R., Riverdale, Md. Educational device. No. 1,383,097; June 28; v. 287; p. 692.
- Gibson, Angus H. (See Roberts, E., and Gibson.)
- Gibson, Calder C., Buffalo, N. Y. Seal-press. No. 1,394,165; Oct. 18.
- Gibson, Hamilton, Seal Harbor, Me. Muller for internal-combustion engines. No. 1,377,472; May 10; v. 286; p. 266.
- Gibson, John G., Atlantic City, N. J. Water-grate. No. 1,366,377; Jan. 25; v. 282; p. 578.
- Gibson, Leonard O., Rawlins, Wyo. Tire-valve for truck-tires. No. 1,376,868; May 3; v. 286; p. 93.
- Gibson, Mandolin-Guitar Co. (See McHugh, T. J., and Williams, assignors.)
- Gibson, Myron C., Los Angeles, Calif. Hacksaw. No. 1,400,873; Dec. 20.
- Gibson, Nicholas E., Oak Park, Ill. Razor-sharpening device. No. 1,366,532; Jan. 25; v. 282; p. 610.
- Gibson, Norman R., Niagara Falls, Ontario, Canada. Apparatus for obtaining pressure time diagrams. No. 1,394,001; Oct. 18.
- Gibson, Norman R., Niagara Falls, Ontario, Canada. Measurement of the flow of fluids in closed conduits. No. 1,398,097; Nov. 22.
- Gibson, Oliver E. (See Winters, L. R., and Gibson.)
- Gibson, Preston C., Girard, Ill. Automobile-lifting device. No. 1,398,186; Nov. 22.
- Gibson, Samuel H., assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Sadoron-holder. No. 1,376,197; Apr. 26; v. 285; p. 677.
- Gibson, Samuel H., assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Sadoron-holder. No. 1,376,329; Apr. 26; v. 285; p. 703.
- Gibson, Samuel H., assignor to The Fanner Manufacturing Company, Cleveland, Ohio. Combined rod and ornament. No. 1,376,330; Apr. 26; v. 285; p. 704.
- Gibson, Theodore, Tulsa, Okla. Grain-car door. No. 1,374,073; Apr. 5; v. 285; p. 135.
- Gibson, Thomas C., Forsyth, Ga. Penknife. No. 1,394,166; Oct. 18.
- Giddens, James F., Morehead City, N. C. Eye-testing device. No. 1,384,252; July 12; v. 288; p. 255.
- Giddings, Allan M. (See Giddings, Frank R., assignor.)
- Giddings, Frank R., Kalamazoo, assignor of one-half to A. M. Giddings, Battle Creek, Mich. Popcorn holder and display cabinet. No. 1,375,502; Apr. 19; v. 285; p. 513.
- Giddings & Lewis Machine Tool Company. (See Cory, Marcus M., assignor.)
- Gidlof, Conrad E., Elizabeth, assignor to American Ocarrina and Toy Company, Inc., Newark, N. J. Game. No. 1,378,854; May 24; v. 286; p. 655.
- Giefers, George, Brooklyn, N. Y. Callus and corn remover. No. 1,382,972; June 28; v. 287; p. 668.
- Gieger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Yoke. No. 1,372,683; Mar. 29; v. 284; p. 767.
- Gielen, Peter G., Paterson, N. J. Loom. (Reissue.) No. 15,026; Jan. 18; v. 282; p. 527.
- Giese, Bernard W., Chicago, Ill. Bed-mattress. No. 1,371,362; Mar. 15; v. 284; p. 415.
- Giesecke, Carl, Bad Harzburg, Germany. Shaft-furnace. No. 1,399,297; Dec. 6.
- Gieseke, Frederick, assignor of one-half to J. Glor, Irvington, N. J. Adjustable knuckle-joint for automobiles. No. 1,396,324; Nov. 8.
- Gieseler, George A., Cleveland, Ohio. Pneumatic conveying mechanism. No. 1,369,648; Feb. 22; v. 283; p. 684.
- Gieseler, George A., Cleveland, Ohio. Pneumatic conveying mechanism. No. 1,369,649; Feb. 22; v. 283; p. 684.
- Gieseler, George A., Cleveland, Ohio. Pneumatic conveying. No. 1,385,870; July 26; v. 288; p. 745.
- Gieseler, George A., Cleveland, Ohio. Dust-recovering. No. 1,396,188; Nov. 8.
- Giesler, Franklin B., Milwaukee, Wis. Wind-motor. No. 1,383,461; July 5; v. 288; p. 42.
- Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Cooling system for internal-combustion engines. No. 1,382,498; June 21; v. 287; p. 524.
- Giesler, Jean V., assignor to The Fulton Company, Knoxville, Tenn. Carbureter. No. 1,392,141; Sept. 27; v. 290; p. 748.
- Giessel, Henry, Chicago, Ill. Water-cooler. No. 1,386,699; Aug. 9; v. 289; p. 217.
- Giffin, Harrie M., Boston, Mass. Clutch mechanism. No. 1,392,932; Oct. 11.
- Gifford, Bert L., and E. B. Gifford, Barker, assignors, by mesne assignments, to The Rex Company, Rochester, N. Y. Assorting-machine. No. 1,397,955; Nov. 22.
- Gifford, Charles P., New York, N. Y. Wheel. No. 1,364,877; Jan. 11; v. 282; p. 204.
- Gifford, Clayton E., Marion, Ohio. Radiator-cap. No. 1,382,499; June 21; v. 287; p. 524.
- Gifford, Edgar B. (See Gifford, Bert L. and E. B.)
- Gilarski, Frank, South Chicago, Ill. Combination-table. No. 1,384,695; July 12; v. 288; p. 348.
- Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
- Gilbert, Albert P., Durham, N. C. Building toy. No. 1,398,852; Nov. 29.
- Gilbert, Alfred, Birmingham, England. Post-card. No. 1,393,213; Oct. 11.
- Gilbert, Alfred, Birmingham, England. Manufacture of book-files for cards and the like. No. 1,399,550; Dec. 6.



*Alphabetical list of patentees—Continued.*

- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Electric motor. No. 1,381,985; June 21; v. 287; p. 427.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Electric motor. No. 1,381,986; June 21; v. 287; p. 427.
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Electric fan. No. 1,383,616; July 5; v. 288; p. 74.
- Gilbert & Barker Manufacturing Company. (See Kunitz, Hannibal A., assignor.)
- Gilbert, Charles E., and A. H. Carlson, Bridgeport, Conn. Three-wheel dump-cart. No. 1,373,000; Mar. 29; v. 284; p. 830.
- Gilbert, Charles E., and A. H. Carlson, Bridgeport, Conn. Toy dump cart or wagon. No. 1,390,122; Sept. 6; v. 290; p. 114.
- Gilbert, Edwin R., Detroit, Mich. Stocking-clasp. No. 1,365,823; Jan. 18; v. 282; p. 427.
- Gilbert, Francis R. (See Gilbert, Frank N., assignor.)
- Gilbert, Henry, Victoria, British Columbia, Canada. Photograph or picture support. No. 1,365,480; Jan. 11; v. 282; p. 320.
- Gilbert, Henry J., Saginaw, Mich. Metal pulley. No. 1,382,829; June 28; v. 287; p. 641.
- Gilbert, Jacob J., Shaw, Oreg. Hoof-trimming tool. No. 1,399,958; Dec. 18.
- Gilbert, James, and W. E. Perkins; said Perkins assignor of all his right to Wilber J. Selby, Eagle, Idaho. Rotary sign-exhibitor. No. 1,369,170; Feb. 22; v. 283; p. 590.
- Gilbert, James F., and T. Neville, Seward, Alaska. Water-cooling construction for welding-torches. No. 1,389,301; Aug. 30; v. 289; p. 897.
- Gilbert, James L. (See Lamprecht, Carl W., assignor.)
- Gilbert, John C., Grafton, Mass. Pneumatic-tire pump. No. 1,379,096; May 24; v. 286; p. 700.
- Gilbert, John H., Plant City, assignor of one-half to H. A. Driggers, Mulberry, Fla. Adjustable shade-bracket. No. 1,374,498; Apr. 12; v. 285; p. 258.
- Gilbert, Joseph M. (See Carlisle, Fred B., assignor.)
- Gilbert, Joseph N., Minneapolis, Minn. Machine for discharging projectiles. No. 1,376,013; Apr. 26; v. 285; p. 642.
- Gilbert, Oliver C., New York, N. Y. Determining temperatures in metal-working. No. 1,379,909; May 31; v. 286; p. 927.
- Gilbert, Oliver C., New York, N. Y., and E. W. Adams, East Orange, N. J.; said Adams assignor to said Gilbert. Working nets. No. 1,384,448; July 12; v. 288; p. 296.
- Gilbert, Otis C., Virginia, Minn. Vegetable and pastry cutter. No. 1,371,158; Mar. 8; v. 284; p. 311.
- Gilbert, Royce W., Clinton, Iowa. Sectional building. No. 1,378,448; May 17; v. 286; p. 504.
- Gilbert, Tracy B. (See Kaehn, Henry B., assignor.)
- Gilbert, Wm. L., Clock Company. (See Hodge, Albert P., assignor.)
- Gilbertson, Otto M., La Crosse, Wis. Railway mail-delivering apparatus. No. 1,381,414; June 14; v. 287; p. 259.
- Gilchrist, George I. (See Fortescue, C. L., and Gilchrist.)
- Gilchrist, Clarence F., assignor to Willys Corporation, Toledo, Ohio. Dynamo-electric machine and brush-holder device therefor. No. 1,375,658; Apr. 19; v. 285; p. 543.
- Gilchrist, George H., Ottawa, Ontario, Canada. Drawing-board. No. 1,380,646; June 7; v. 287; p. 61.
- Gilchrist, Vincent T., assignor, by mesne assignments, to Superior Refining Process Co., San Francisco, Calif. Fractional-distillation process and apparatus. No. 1,386,467; Aug. 2; v. 289; p. 98.
- Gilchrist, William A., New York, N. Y., and B. D. Jeffs, Berwyn, Ill. Method and apparatus for curing alfalfa and the like. No. 1,368,134; Feb. 8; v. 283; p. 302.
- Gilcrease, Leonard L., Reno, Nev. Adjustable support. No. 1,364,433; Jan. 4; v. 282; p. 75.
- Gilcrest, Frank A., Pasadena, Calif. Insulating medium. No. 1,371,753; Mar. 15; v. 284; p. 491.
- Gilcrest, Frank A., Pasadena, Calif. Heat non-conducting fabric. No. 1,371,754; Mar. 15; v. 284; p. 491.
- Gilcrest, Frank A., Pasadena, Calif. Insulating fabric. No. 1,371,755; Mar. 15; v. 284; p. 491.
- Gilcrest, Frank A., Pasadena, Calif. Wall-lining. No. 1,371,756; Mar. 15; v. 284; p. 491.
- Gilda, John R., St. Louis, Mo. Nailing-machine. No. 1,373,961; Apr. 5; v. 285; p. 114.
- Gilda, John R., assignor of one-half to W. Schield, St. Louis, Mo. Lye-crushing machine. No. 1,375,503; Apr. 19; v. 285; p. 513.
- Giles, David J., and J. E. McKeesport, Pa. Extracting tungsten and similar metals from their ores. No. 1,388,857; Aug. 30; v. 289; p. 808.
- Giles, Frederick S., New York, N. Y. Window-glass protector. No. 1,371,159; Mar. 8; v. 284; p. 312.
- Giles, Harvey, Brooklyn, assignor to A. Ward, New York, N. Y. Coin-controlled vending-machine. No. 1,401,533; Dec. 27.
- Giles, Harvey C., Rochester, N. Y. Riveting-machine. No. 1,394,506; Oct. 18.
- Giles, James E. (See Giles, David J., and J. E.)
- Giles, Jesse H., Ogden, Utah. Lock. No. 1,395,636; Nov. 1.
- Giles, Julian A., Derby, assignor to The General Ordnance Co., Groton, Conn. Non-recoil gun. No. 1,394,490; Oct. 18.
- Giles, Lloyd and S. H. Woodruff, Los Angeles, Calif. Aerial torpedo. No. 1,384,559; July 12; v. 288; p. 319.
- Giles, Louis E., assignor to Underwood Computing Machine Company, New York, N. Y. Computing-machine. No. 1,370,426; Mar. 1; v. 284; p. 127.
- Giles, Louis E., assignor to Underwood Computing Machine Company, New York, N. Y. Computing-machine. No. 1,370,427; Mar. 1; v. 284; p. 127.
- Giles, Louis E., assignor to Underwood Computing Machine Company, New York, N. Y. Computing-machine. No. 1,370,428; Mar. 1; v. 284; p. 127.
- Giles, Louis E., assignor to Underwood Computing Machine Company, New York, N. Y. Computing-machine. No. 1,370,429; Mar. 1; v. 284; p. 128.
- Giles, Lucile, *et al.* (See Giles, Paul B., assignor.)
- Giles, Milton C., *et al.* (See Turner, Joseph D., assignor.)
- Giles, Paul B., Hysham, assignor of one-half to A. H. Hiller, Sumatra, and one-half to L. Giles, Hysham, Mont. Mechanism for cross-cutting and ripping logs. No. 1,370,887; Mar. 8; v. 284; p. 260.
- Gilfilan Bros. Smelting & Refining Company. (See Howard, Earl H., assignor.)
- Gilkey, Leon L., Detroit, Mich., and C. H. Braselton, New York, N. Y. Truck. No. 1,390,123; Sept. 6; v. 290; p. 114.
- Gill, Edwin R., Yonkers, N. Y. Electric battery. No. 1,381,298; June 14; v. 287; p. 237.
- Gill, Ernest W. B., Oxford, England, assignor to Radio Corporation of America, New York, N. Y. Wireless-telegraph receiver. No. 1,371,757; Mar. 15; v. 284; p. 491.
- Gill, George W., assignor of one-fourth to W. L. Carroll, one-fourth to B. W. Ward, and one-fourth to C. Sanberg, Battle Creek, Mich. Engine or motor. No. 1,392,322; Oct. 4.
- Gill, Horace E., assignor to Fan Flame Spark Plug Co., Yonkers, N. Y. Spark-plug. No. 1,392,933; Oct. 11.
- Gill, James F., and J. N. Chaviara, Liverpool, England. Consecutive operation of two or more mechanisms. No. 1,383,098; June 28; v. 287; p. 692.
- Gill, Joseph W. (See Sullivan, A. C., and Gill.)
- Gill, Middleton S., San Francisco, Calif. Piston-ring. No. 1,385,613; July 26; v. 288; p. 693.
- Gill, Vergil E. (See Fallenstein, Ernest H., assignor.)
- Gill, Walter L., San Bernardino, Calif. Electric storage battery. No. 1,371,998; Mar. 15; v. 284; p. 537.
- Gillam, Manly M., Flushing, N. Y. Device for burning vaporous or gaseous fuel. No. 1,397,003; Nov. 15.
- Gillen, Daniel A., Flushing, N. Y. Non-siphonable trap. No. 1,398,427; Nov. 29.
- Gillenwater, Charles T., and J. L. Pedigo, Bluefield, W. Va. Trolley-harp and trolley-head therefor. No. 1,376,688; May 3; v. 286; p. 57.
- Gilleo, Clarence C. (See Borst, W. E., and Gilleo.)
- Gilleran, Joseph L., Plainfield, Conn. Temple-roll bracket. No. 1,374,074; Apr. 5; v. 285; p. 135.
- Gilles, Pierre F., Springfield, Mass. Carbureter. No. 1,365,395; Jan. 11; v. 282; p. 304.
- Gilles, Pierre P., Chicago, Ill. Fuel-feeding device for carbureters. No. 1,381,867; June 14; v. 287; p. 345.
- Gillespie, Alan K., Richmond Heights, Mo. Freezing ice-cream. No. 1,390,202; Sept. 6; v. 290; p. 129.
- Gillespie, Charles, *et al.* (See Kaufman, Sherman, assignor.)
- Gillespie-Eden Corporation. (See Eden, Harold W., assignor.)
- Gillespie Eden Corporation. (See Francis, Charles W., assignor.)
- Gillespie Eden Corporation. (See Townsend, George R., assignor.)
- Gillespie-Eden Corporation. (See Welhart, Charles, assignor.)
- Gillespie, George, Ann Arbor, Mich. Extension-micrometer. No. 1,388,034; Aug. 16; v. 289; p. 534.
- Gillespie, George and W. W., West View, Pa. Thumb-tack tool. No. 1,369,420; Feb. 22; v. 283; p. 639.
- Gillespie, George C., Great Kills, N. Y., assignor to Gillespie Manufacturing Corporation. Toy. No. 1,370,303; Mar. 1; v. 284; p. 104.
- Gillespie, Gordon F. (See Paoli, Cesare, assignor.)
- Gillespie, Homer, *et al.* (See Kaufman, Sherman, assignor.)
- Gillespie, John B., Hoquiam, Wash. Straight-line knife. No. 1,379,973; May 31; v. 286; p. 940.
- Gillespie, Kingsley A., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing desensitized explosives and products thereof. No. 1,370,015; Mar. 1; v. 284; p. 50.
- Gillespie Manufacturing Corporation. (See Gillespie, George C., assignor.)
- Gillespie, Mathias E., Roseburg, Oreg. Lock-nut and bolt. No. 1,377,196; May 10; v. 286; p. 211.
- Gillespie Motor Company. (See Francis, Charles W., assignor.)
- Gillespie, William W. (See Gillespie, George and W. W.)
- Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Non-skid appendage for vehicle-wheels. No. 1,371,237; Mar. 15; v. 284; p. 389.



## Alphabetical list of patentees—Continued.

- Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Windshield-wiper. No. 1,371,363; Mar. 15; v. 284; p. 415.
- Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Stylus-bar attachment for phonographs. No. 1,375,750; Apr. 26; v. 285; p. 592.
- Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Windshield attachment. No. 1,381,629; June 14; v. 287; p. 299.
- Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Clamp. No. 1,397,508; Nov. 22.
- Gillette, Edward R., Bloomfield, N. J. Fishing appliance. No. 1,398,717; Nov. 29.
- Gillette, Herbert B., Grand Rapids, Mich. Dry-kiln truck. No. 1,383,462; July 5; v. 288; p. 43.
- Gillette, Howard W., Rochester, N. Y. Game. No. 1,385,677; July 26; v. 288; p. 706.
- Gillette, John C., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Applying binding-posts to dry cells. No. 1,385,783; July 26; v. 288; p. 728.
- Gillette-Vibber Co., The. (See Vibber, Wheeler H., assignor.)
- Gillham, Alfred R., Cincinnati, Ohio. Piano-player. No. 1,390,697; Sept. 13; v. 290; p. 320.
- Gillham, James W., Pevely, Mo. Gage-adjusting tool. No. 1,387,383; Aug. 9; v. 289; p. 354.
- Gilliam Manufacturing Company, The. (See Miller, George L., assignor.)
- Gillian, Herman A., assignor to The Bacon Bros. Company, Toledo, Ohio. Glove. No. 1,375,904; Apr. 26; v. 285; p. 622.
- Gillian, Herman A., assignor to The Bacon Bros. Company, Toledo, Ohio. Material-handling. No. 1,391,183; Sept. 20; v. 290; p. 481.
- Gilliard, Ernest T., Hanover, Pa. Internal-combustion engine. No. 1,396,418; Nov. 8.
- Gillce, Michael J., Buffalo, N. Y. Armor for pneumatic tires. No. 1,373,881; Apr. 5; v. 285; p. 98.
- Gillies, William R., assignor to L. Louis Cohen, Chicago, Ill. Trolley wheel and harp. No. 1,366,378; Jan. 25; v. 282; p. 578.
- Gillig, Chester. (See Gillig, Leo and C.)
- Gillig, Leo and C., San Francisco, Calif. Side curtain for automobiles. No. 1,388,425; Aug. 23; v. 289; p. 670.
- Gilliland, Herbert L., Harrington, Wash. Weeding-impliment. No. 1,400,673; Dec. 20.
- Gilliland, Orra L., assignor to National Shock Loader Co., Minneapolis, Minn. Loader. No. 1,397,956; Nov. 22.
- Gillis, James B., R. J. Rhodes, and H. J. Lowe, Salisbury, Md. Spike-puller. No. 1,395,956; Nov. 1.
- Gilliyn, John J., Oshawa, Ontario, Canada. Traction-tread for pneumatic tires. No. 1,380,952; June 7; v. 287; p. 120.
- Gillmor, Horatio G., Washington, D. C. Rail-anchor. No. 1,376,526; May 3; v. 286; p. 28.
- Gilman, A. S., Printing Co., The. (See Ingersoll, Leland, assignor.)
- Gilman, Albert E., assignor to King & Hamilton Company, Ottawa, Ill. Corn-sheller. No. 1,390,030; Sept. 6; v. 290; p. 95.
- Gilman, Charles, Plainfield, and W. C. Parmley, Montclair, N. J. Expandable-joint construction. No. 1,388,558; Aug. 23; v. 289; p. 695.
- Gilman, Emma G., Paterson, N. J. Duster. No. 1,392,633; Oct. 4.
- Gilman, Frank, Gervais, Ore. Writing-paper support. No. 1,380,895; June 7; v. 287; p. 109.
- Gilman, George H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Stone-drilling engine. No. 1,382,775; June 28; v. 287; p. 631.
- Gilman, George H., Claremont, N. H., assignor, by mesne assignments, to Sullivan Machinery Company, Boston, Mass. Stone-drilling engine. No. 1,382,776; June 28; v. 287; p. 631.
- Gilman, George H., Claremont, N. H., assignor to Sullivan Machinery Company. Cutting-tool. No. 1,382,777; June 28; v. 287; p. 631.
- Gilman, George H., assignor to Sullivan Machinery Company, Boston, Mass. Rock-drill. No. 1,382,778; June 28; v. 287; p. 631.
- Gilman, George H., assignor to Sullivan Machinery Company, Claremont, N. H. Rock-drill. No. 1,382,779; June 28; v. 287; p. 632.
- Gilman, James E., assignor of one-half to G. A. Ambler, Winchester, Mass. Refrigerating apparatus. No. 1,388,332; Aug. 23; v. 289; p. 651.
- Gilman, Willard H., New York, N. Y., and M. H. Loughridge, Bogota, N. J. Mechanical vibrator. No. 1,374,197; Apr. 12; v. 285; p. 199.
- Gilman, Willard H., assignor, by mesne assignments, to J. A. McVickar, New York, N. Y. Driving means for phonograph attachments. No. 1,387,702; Aug. 16; v. 289; p. 469.
- Gilman, Willard H., assignor, by mesne assignments, to J. A. McVickar, New York, N. Y. Recording and reproducing attachment for phonographs. No. 1,389,429; Aug. 30; v. 289; p. 923.
- Gilman, Willard H., assignor, by mesne assignments, to J. A. McVickar, New York, N. Y. Recording and reproducing mechanism for phonographs. No. 1,389,430; Aug. 30; v. 289; p. 923.
- Gilmore, Alfred A., assignor to The Metal Shingle and Siding Company, Limited, Preston, Ontario, Canada. Truss for barns. No. 1,369,421; Feb. 22; v. 283; p. 639.
- Gilmore, George de V. (See Bishop, George W., Jr., assignor.)
- Gilmore, Thomas, Jr., Brooklyn, assignor to General Briquetting Company, New York, N. Y. Disintegrating-machine. No. 1,396,108; Nov. 8.
- Gilmore, William L., Garden City, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Airplane-fuselage. No. 1,368,428; Feb. 15; v. 283; p. 407.
- Gilmore, William L., Port Washington, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Airplane-fuselage. No. 1,394,726; Oct. 25.
- Gilmore, William L., and J. F. Meade, Roosevelt, assignors, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Hydroairplane landing-gear. No. 1,382,421; June 21; v. 287; p. 509.
- Gilmore, Willis B., Idaho Springs, Colo. Animal-trap. No. 1,384,890; July 19; v. 288; p. 468.
- Gilpin, Garth G., Riverside, Ill., assignor to W. P. Murphy, New York, N. Y. Reinforced door for railway-cars of the dumping type. No. 1,380,055; May 31; v. 286; p. 956.
- Gilson, Albert F. F., Closter, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Fastening device. No. 1,378,946; May 24; v. 286; p. 672.
- Gilson, Albert F. F., Closter, N. J., and O. A. Shann, Brooklyn, assignors to Western Electric Company, Incorporated, New York, N. Y. Step-by-step circuit-closing device. No. 1,378,945; May 24; v. 286; p. 672.
- Gilson, Emery G., Schenectady, N. Y., assignor to General Electric Company. Resistance device. No. 1,365,481; Jan. 11; v. 282; p. 321.
- Gilson, Henry R., New Rochelle, N. Y., assignor to The Hartford Rubber Works Company. Duplex mold. No. 1,398,073; Nov. 22.
- Gilson, Henry R., New Rochelle, N. Y., assignor to The Mechanical Rubber Company. Submarine telephone transmitter. No. 1,400,283; Dec. 13.
- Gilson, J. E., Company. (See Gilson, John, Sr., assignor.)
- Gilson, John, Sr., assignor to J. E. Gilson Company, Port Washington, Wis. Hand-welder. No. 1,366,379; Jan. 25; v. 282; p. 579.
- Gilson, John L. (See Stine, C. M. A., and Gilson.)
- Gilson Manufacturing Company. (See Large, George, assignor.)
- Gilthorpe, Stanley C., assignor of one-third to R. J. Bequette and one-third to H. C. Leake, New Orleans, La. Drill-head for well-drilling apparatus. No. 1,391,626; Sept. 20; v. 290; p. 571.
- Gimingham, Edward A., London, England. Arc incandescent electric lamp. No. 1,374,647; Apr. 12; v. 285; p. 287.
- Gimperling, John E., assignor of one-fourth to C. N. Greer, Dayton, Ohio. Locking device. No. 1,377,335; May 10; v. 286; p. 240.
- Gimson Shoe Machinery Co. Limited, The. (See Bagshaw, Charles M., assignor.)
- Ginder, Wallace G., assignor to Brock and Company, Los Angeles, Calif. Ring. No. 1,395,488; Nov. 1.
- Gindler, William. (See Solter, J. F., and Gindler.)
- Gindre, Eugene, assignor to Societe Anonyme Le Carbone, Levallois-Perret, France. Cable-securing device particularly applicable to the fixation of electric cables on carbon-brushes. No. 1,400,357; Dec. 13.
- Ginet, Joseph H., Denver, Colo. Treating bituminous shale. No. 1,371,160; Mar. 8; v. 284; p. 312.
- Gingle, Frank, San Francisco, Calif. Windshield. No. 1,369,741; Feb. 22; v. 283; p. 702.
- Ginn and Company. (See Greeley, William H., assignor.)
- Ginn, Percy E. (See Johnson, Harry L., assignor.)
- Ginnery, William A., and E. O. Sloan, Bremen, Ohio. Cap for milk-bottles and the like. No. 1,367,692; Feb. 8; v. 283; p. 218.
- Ginsburg, Michael I., Philadelphia, Pa. Slip-jaw wrench. No. 1,391,251; Sept. 20; v. 290; p. 495.
- Ginter, James C., Breckenridge, Tex. Grapple. No. 1,376,014; Apr. 26; v. 285; p. 643.
- Ginzbourg, Leo, Jersey City, N. J. Range-finder. No. 1,398,853; Nov. 29.
- Giordano, Pedro, Buenos Aires, Argentina. Marker. No. 1,374,443; Apr. 12; v. 285; p. 247.
- Giot, Henri L. V. D., Le Havre, France. Star-transit calculator and indicator for mariners. No. 1,383,296; July 5; v. 288; p. 8.
- Giovannetti, Mario U., Bridgeport, Conn. Direction-indicator for automobiles. No. 1,383,931; July 5; v. 288; p. 139.
- Gipson, Andrew J., Perkins, Okla. Cotton-picking machine. No. 1,378,021; May 17; v. 286; p. 423.
- Gipson, Dee L., Ridgely, Tenn. Cotton-picker's sack. No. 1,365,681; Jan. 18; v. 282; p. 398.



- Girard, Antoine L., West Boylston, Mass. Toy. No. 1,378,022; May 17; v. 286; p. 423.
- Girard, Louis B. (See Biddlecom, R. W., and Girard.)
- Girard, Louis B., Los Angeles, Calif. Clamp for shade-cloth. No. 1,371,417; Mar. 15; v. 284; p. 426.
- Girard, Wilfrid J., San Francisco, Calif. Continuous rail. No. 1,384,253; July 12; v. 288; p. 255.
- Girodat, Aaron. (See Hilton, E., and Girodat.)
- Giroux, Pierre E., Johnstown, N. Y. Slipper. No. 1,396,419; Nov. 8.
- Girvan, Charles S., White Plains, assignor to L. S. Jackson, New York, N. Y. Bolt-anchor. No. 1,396,569; Nov. 8.
- Girvin, Charles W., Philadelphia, Pa. Electrical precipitation of particles from fluid streams. No. 1,378,224; May 17; v. 286; p. 461.
- Gish, Daniel B., Washington, D. C. Treating hydrocarbons. No. 1,373,720; Apr. 5; v. 285; p. 65.
- Gish, S. J. (See Jennings, Aaron E., assignor.)
- Gisholt Machine Company. (See Cole, Ira L., assignor.)
- Gisholt Machine Company. (See Elvers, Hans C., assignor.)
- Gisholt Machine Company. (See Godfriaux, Louis E., assignor.)
- Gisholt Machine Company. (See McCabe, Horace B., assignor.)
- Gisholt Machine Company. (See Miller, William L., assignor.)
- Gisko, Karl I. M. (See Christenson, O. L., and Gisko.)
- Gitzendanner, Charles, Brooklyn, assignor to T. W. & C. B. Sheridan Company, New York, N. Y. Signature-gathering machine. No. 1,380,293; May 31; v. 286; p. 1000.
- Gitzendanner, Charles, Brooklyn, assignor to T. W. & C. B. Sheridan Company, New York, N. Y. Bookbinding-machine. No. 1,380,294; May 31; v. 286; p. 1001.
- Givens, George N., Pineville, assignor of two-fifths to J. B. Roberts, Colfax, La. Gate. No. 1,370,534; Mar. 8; v. 284; p. 193.
- Givens, J. D. (See Slayton, Samuel, assignor.)
- Giza, Ignacy, Deep River, Conn. Puzzle. No. 1,374,729; Apr. 12; v. 285; p. 302.
- Gjukić, Simo, Columbus, Ohio. Lock. No. 1,375,287; Apr. 19; v. 285; p. 472.
- Gladish, Laura, St. Louis, Mo. Supporting and stretching bracket for shades and curtains. No. 1,392,575; Oct. 4.
- Gladly, Charles. (See Drummam, J. R., and Gladly.)
- Glaeser, Walter, Brooklyn, assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y. Treating potash-bearing silicates. No. 1,379,914; May 31; v. 286; p. 929.
- Glaeser, Walter, Brooklyn, assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y. Treating phosphate rock. No. 1,387,151; Aug. 9; v. 289; p. 308.
- Glaesser, Johannes P., Milwaukee, Wis. Writing attachment. No. 1,367,872; Feb. 8; v. 283; p. 253.
- Glair, Harry F., assignor to Standard Oil Company, (of Indiana,) Whiting, Ind. Filtration. No. 1,392,758; Oct. 4.
- Glamar Machine Company. (See Thompson, Garold J., assignor.)
- Glancy, James C. (See Heffernan, Michael, assignor.)
- Glandt, William F., Stanton county, near Leigh, Nebr. Gate-fastener. No. 1,392,934; Oct. 11.
- Glasener, Frank R., Rock Falls, Iowa. Collapsible seat or bed. No. 1,379,683; May 31; v. 286; p. 886.
- Glaser, Joseph P., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Weather-strip. No. 1,379,910; May 31; v. 286; p. 927.
- Glaser, Joseph P., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Weather-strip. No. 1,379,911; May 31; v. 286; p. 928.
- Glaser, Joseph P., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Weather-strip. No. 1,379,912; May 31; v. 286; p. 928.
- Glaser, Joseph P., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Weather-strip. No. 1,379,913; May 31; v. 286; p. 929.
- Glashearn, John J., *et al.* (See Smith, Frank W., assignor.)
- Glasner, Rudolph W. (See Strand, David, assignor.)
- Glasner, Rudolph W., Chicago, Ill. Interlacing-machine. No. 1,389,043; Aug. 30; v. 289; p. 846.
- Glasner, Rudolph W., and M. Balcker, assignors to Marquette Tool & Manufacturing Company, Chicago, Ill. Weighing and sorting machine. No. 1,394,167; Oct. 18.
- Glass, Arnold F., Birmingham, Ala. Gas-stove and fireless cooker. No. 1,397,207; Nov. 15.
- Glass, Arthur A., New York, N. Y. Tool for dressing emery-wheels and the like. No. 1,387,447; Aug. 16; v. 289; p. 499.
- Glass, Charles A., Chicago, Ill. Shock-absorber. No. 1,387,536; Aug. 16; v. 289; p. 436.
- Glass, Ernest, Reading, Pa. Toothbrush. No. 1,378,781; May 17; v. 286; p. 569.
- Glass, John E., Marion, Ky. Mail-exchange device. No. 1,379,974; May 31; v. 286; p. 940.
- Glass, Perley R., Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,369,021. Feb. 22; v. 283; p. 562.
- Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Gromet-setting machine. No. 1,373,500; Apr. 5; v. 285; p. 24.
- Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Duplex fastener-setting machine. No. 1,381,180; June 14; v. 287; p. 216.
- Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Turning and beading machine. No. 1,389,643; Sept. 6; v. 290; p. 17.
- Glass, Perley R., Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. French-binding-straightening and cement-applying machine. No. 1,395,270; Nov. 1.
- Glass, Perley R., Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Button-attaching machine. No. 1,399,762; Dec. 13.
- Glass, Perley R., Brookline, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,399,763; Dec. 13.
- Glassburn, Elmer A., Los Angeles, Calif. Retoucher's rotary pencil. No. 1,368,135; Feb. 8; v. 283; p. 302.
- Glassco, Robert C., assignor of two-thirds to Computing Cheese Cutter Company, Anderson, Ind. Paring device. No. 1,373,882; Apr. 5; v. 285; p. 98.
- Glasser, Charles T. (See Whitmore, H. G., and Glasser.)
- Glaudel, George. (See Krick, G. W., and Miller, assignors.)
- Glaudel, George, Los Angeles, assignor of one-half to G. L. Mitchell, Santa Monica, Calif. Auxiliary windshield. No. 1,386,565; Aug. 2; v. 289; p. 117.
- Glaudel, George, Los Angeles, assignor of one-half to G. L. Mitchell, Santa Monica, Calif. Auxiliary windshield. No. 1,393,681; Oct. 11.
- Glaudel, George, Los Angeles, assignor, by mesne assignments, of fifty per cent. to G. L. Mitchell, Santa Monica, Calif. Wind-deflector. No. 1,393,682; Oct. 11.
- Glaze, Herbert L., assignor to Plastoid Products, Incorporated, Los Angeles, Calif. Material-mixer. No. 1,366,646; Jan. 25; v. 282; p. 633.
- Gleason Board Company. (See Corbett, James R., assignor.)
- Gleason, C. Roy. (See Fate, John L., assignor.)
- Gleason, Frank J., Rochester, N. Y. Heel-fastener. No. 1,369,922; Mar. 1; v. 284; p. 32.
- Gleason, Frederick H., New York, N. Y. Means for lubricating steering-knuckles of vehicles. No. 1,388,945; Aug. 30; v. 289; p. 826.
- Gleason, James E., trustee. (See Derr, Charles E., assignor.)
- Gleason, James E., trustee. (See Tibbetts, Milton, assignor.)
- Gleason, James M. (See Berg, J. P., and Gleason.)
- Gleason, Jesse H., Atlanta, Ga. Casket. No. 1,387,974; Aug. 16; v. 289; p. 523.
- Gleason, Roy. (See Fate, John L., assignor.)
- Gleason, Stephen R., assignor to H. Hutchins Parker and A. D. Parker, copartners, Lowell, Mass., doing business under the name of Walter L. Parker Co. Machine for placing rings on bobbins. No. 1,382,075; June 21; v. 287; p. 443.
- Gleason, Stuart B., Passaic N. J. Artificial fish-bait. No. 1,385,536; July 26; v. 288; p. 677.
- Gleason, William D., assignor of one-half to E. H. Davis, Central Point, Ore. Pruning-machine. No. 1,382,350; June 21; v. 287; p. 495.
- Gleason Works. (See Blackmore, John E. L., assignor.)
- Gleason Works. (See Bullock, E. W., and Bryan, assignors.)
- Gleason Works. (See Bullock, E. W., Earl, and Bryan, assignors.)
- Gleason Works. (See Stewart, A. L., and Head, assignors.)
- Gleason Works. (See Stewart, A. L., Bullock, and Earl, assignors.)
- Gleeson, Thomas W., Boston, Mass. Electrotherapeutic apparatus. No. 1,400,149; Dec. 13.
- Glockier, Frederick, Oak Harbor, Ohio. Arch-protector for clamp-kilns. No. 1,396,189; Nov. 8.
- Gleichrichter-Aktiengesellschaft. (See Schäfer, Béla B., assignor.)
- Glekler, John T., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Heat-resisting alloy. No. 1,389,133; Aug. 30; v. 289; p. 864.
- Glendenning, Everett B., East Dedham, Mass., assignor of one-half to M. A. Fesler, Stamford, Conn. Amusement apparatus. No. 1,369,525; Feb. 22; v. 283; p. 659.
- Glendhill, Arthur H., Halifax, England. Lever-control mechanism. No. 1,391,948; Sept. 27; v. 290; p. 709.
- Glenn, John C., Erie, Pa. Dewatering mechanism for paper-machine drums. No. 1,374,198; Apr. 12; v. 285; p. 199.
- Glenn, Kenneth B., Ambridge, Pa. Floating jewel-bearing. No. 1,396,570; Nov. 8.
- Glenn, Oscar, Butte, Mont. Safety device for mine-cages. No. 1,391,539; Sept. 20; v. 290; p. 554.
- Glenn, Peter F., Philadelphia, Pa. Household article. No. 1,397,249; Nov. 15.
- Glenn, Samuel, Seattle, Wash. Truck and tractor attachment for automobiles. No. 1,375,000; Apr. 19; v. 285; p. 416.



*Alphabetical list of patentees—Continued.*

- Glennon, James, Rochester, Minn. Dirigible headlight. No. 1,377,880; May 10; v. 286; p. 344.
- Glennon, William K., and C. Wattleworth, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company. Mold-breaking apparatus. No. 1,364,840; Jan. 4; v. 282; p. 153.
- Glens Falls Machine Works. (See Chappell, Fred B., assignor.)
- Glick, Harvey C., Paris, Idaho. Caisson-dredge. No. 1,380,203; May 31; v. 286; p. 983.
- Glickman, David, Chicago, Ill. Suspenders. No. 1,392,935; Oct. 11.
- Glidden, Raymond B., assignor to Kewanee Implement Company, Kewanee, Ill. Stock-waterer. No. 1,387,483; Aug. 16; v. 289; p. 425.
- Glidewell, Paul, Milan, Mo. Clamp. No. 1,371,888; Mar. 15; v. 284; p. 516.
- Glinchikoff, Alexander, New York, N. Y. Cutting mechanism for mowing-machines, harvesters, reaping-machines, and binders. No. 1,392,010; Sept. 27; v. 290; p. 723.
- Glinchikoff, Alexander I., Honolulu, Hawaii. Freight-car. No. 1,396,420; Nov. 8.
- Gliott, John E., Mobile, Ala. Composition for removing iron-rust from fabrics. No. 1,368,714; Feb. 15; v. 283; p. 463.
- Glisoni, Eugene, and E. Von Beck; said Von Beck assignor of his entire right to C. Dalboni, New York, N. Y. Locking device. No. 1,383,801; July 5; v. 288; p. 113.
- Glisson, Amos A., Fort Worth, Tex. Strap binder or lock and record-check. No. 1,380,472; June 7; v. 287; p. 28.
- Glisson, Amos A., Fort Worth, Tex. Package-binder and hooks therefor and record-check. No. 1,396,190; Nov. 8.
- Globe Automatic Sprinkler Company. (See Rowley, Arthur C., assignor.)
- Globe Machine & Stamping Co., The. (See Panek, Emil, assignor.)
- Globe Machine & Stamping Company, The. (See Root, Ralph R., assignor.)
- Globe Machinery & Supply Company. (See Neale, Charles C., assignor.)
- Globe Optical Company. (See Slade, Walter W., assignor.)
- Globe Pneumatic Engineering Company Limited, The. (See Cawley, J., and Hills, assignors.)
- Globe Ticket Company. (See Fellows, James A., assignor.)
- Gloekler, Charles A., Pittsburgh, Pa. Counter-guard construction. No. 1,379,553; May 24; v. 286; p. 787.
- Gloekler, Karl J. (See Ziefel, C., and Gloekler.)
- Gloninger, J. H. (See Bilque, George A., assignor.)
- Gloor, Albert, assignor to Sagen Derrick Co., Chicago, Ill. Touring-derrick. No. 1,400,540; Dec. 20.
- Gloor, George A. (See Shailor, Frank E., assignor.)
- Gloor, Walther, New York, N. Y. Propeller-shaft. No. 1,396,325; Nov. 8.
- Gloor, Walther, and L. Haack, New York, N. Y. Carpet-attachment device. No. 1,381,913; June 21; v. 287; p. 414.
- Glor, Julius. (See Gieseke, Frederick, assignor.)
- Glos, Harold V. (See Erwin, O. R., and Glos.)
- Glover, Frank B., New York, N. Y. Adjustable guide for transfer mechanisms. No. 1,395,489; Nov. 1.
- Glover, Howel E., Lonoke, Ark. Wire-stretcher. No. 1,372,134; Mar. 22; v. 284; p. 620.
- Glover, John F., Troy, Tenn. Tug-adjuster. No. 1,369,650; Feb. 22; v. 283; p. 684.
- Glover, Thomas, Edmonton, London, England. Construction of coin-carriers for coin-freed mechanism. No. 1,367,370; Feb. 1; v. 283; p. 97.
- Glover, Thomas, Edmonton, London, England. Coin-controlled mechanism. No. 1,367,371; Feb. 1; v. 283; p. 97.
- Glover, Thomas, Edmonton, London, England. Construction of coin-freed mechanism. No. 1,367,372; Feb. 1; v. 283; p. 98.
- Glowacki, John B., Chicago, Ill. Adjustable hand-grip for crutches. No. 1,400,600; Dec. 20.
- Gloyd, Sidney E. (See Poole, Homer H., assignor.)
- Gluck, August and E., Neillsville, Wis. Combination kitchen utensil. No. 1,371,758; Mar. 15; v. 284; p. 402.
- Gluck, Emma. (See Gluck, August and E.)
- Glynn, Desmond F., Randwick, New South Wales, Australia. Automatic forging-machine for the manufacture of horseshoes and other articles. No. 1,399,764; Dec. 13.
- Glysyn Corporation, The. (See Saunders, Harold F., assignor.)
- Gnagy, Samuel, Strasburg, Ohio. Compensating bearing. No. 1,377,123; May 3; v. 286; p. 142.
- Gneiss, Guss H., and C. J. Peterson, Chicago, Ill. Panel. No. 1,400,950; Dec. 20.
- Gobelle, Napoleon. (See Leduc, J., and Gobelle.)
- Goben, Edward G., assignor to The E. V. Benjamin Company, Inc., New Orleans, La. Cutting-machine for cloth and other material. No. 1,380,710; June 7; v. 287; p. 73.
- Gobetz, Lafayette C., Brooklyn, N. Y. Alarm mechanism for radiator-tanks. No. 1,395,271; Nov. 1.
- Goble, Paul J., Newark, N. J. Picture-hanger. No. 1,400,150; Dec. 13.
- Gochenour, Benjamin F., Maurertown, Va. Gate. No. 1,379,621; May 31; v. 286; p. 874.
- Gockerell, Fritz, Munich, Bavaria, Germany. Operating mechanism for explosion-engines. No. 1,381,181; June 14; v. 287; p. 217.
- Godard, Dwight W., Aurora, Ill. March-folio holder. No. 1,388,333; Aug. 23; v. 289; p. 651.
- Godbey, Walter H., Jr., assignor of one-third to G. H. Hyatt, Memphis, Tenn., and one-third to A. D. Gwynne, Dallas, Tex. Lock for automobiles. No. 1,377,124; May 3; v. 286; p. 142.
- Goddard, Archibald N., assignor to Goddard and Goddard Company, Detroit, Mich. Milling-cutter. No. 1,365,908; Jan. 18; v. 282; p. 444.
- Goddard, Frank, London, England. Hammock. No. 1,400,049; Dec. 13.
- Goddard, George E. (See Dodge, J. F., and Goddard.)
- Goddard, George E., assignor to Packard Motor Car Company, Detroit, Mich. Lamp-supporting means for motor-vehicles. No. 1,399,055; Dec. 6.
- Goddard, George N., Newton, and F. A. Smith, Reading, assignors to American Tool & Machine Company, Boston, Mass. Automatic belt-tightener. No. 1,385,942; July 26; v. 288; p. 759.
- Goddard and Goddard Company. (See Goddard, Archibald N., assignor.)
- Goddard, James E., assignor of one-half to M. Chonkich, Baltimore, Md. Drive-shaft. No. 1,387,384; Aug. 9; v. 289; p. 354.
- Goddard, John T., assignor of one-half to J. J. McInerney, Rochester, N. Y. Bomb. No. 1,312,744; Mar. 29; v. 284; p. 778.
- Goddard, Joseph, assignor to Seneca Camera Manufacturing Company, Rochester, N. Y. View-finder for photographic cameras. No. 1,392,759; Oct. 4.
- Goddard, Maurice E., Doncaster, England. Separation or dressing of seeds and grain and apparatus for use in connection therewith. No. 1,373,323; Mar. 29; v. 284; p. 894.
- Goddard, William E., Watertown, Wis. Clamp for flexible containers. No. 1,387,975; Aug. 16; v. 289; p. 523.
- Goddu, George. (See Mackenzie, F. L., and Goddu.)
- Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,368,333; Feb. 15; v. 283; p. 388.
- Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,384,830; July 19; v. 288; p. 456.
- Goddu, George, Winchester, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Blank-feeding mechanism. No. 1,396,191; Nov. 8.
- Goddu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,372,685; Mar. 29; v. 284; p. 767.
- Goddu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,396,192; Nov. 8.
- Goddu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,399,765; Dec. 13.
- Goddu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignors, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,401,247; Dec. 27.
- Goddu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Work-positioning mechanism. No. 1,401,248; Dec. 27.
- Goddu, George, Winchester, and F. L. Mackenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for inserting fastenings. No. 1,401,249; Dec. 27.
- Goder, Joseph, Chicago, Ill. Incinerator. No. 1,398,718; Nov. 29.
- Godfrey Conveyor Company. (See Click, Walter E., assignor.)
- Godfrey, Harold H., Los Angeles, Calif. Apparatus for extracting metal from ore and the like. No. 1,401,769; Dec. 27.
- Godfrey, Harvey, Buffalo, N. Y. Wave-motor. No. 1,370,304; Mar. 1; v. 284; p. 104.
- Godfrey, John F., Elkhart, Ind. Reinforcing automobile-bodies. No. 1,388,250; Aug. 23; v. 289; p. 634.
- Godfrey, John F., Elkhart, Ind. Hoist mechanism. No. 1,397,164; Nov. 15.
- Godfrey, John F., Elkhart, Ind. Reclaiming and conveying buckets. No. 1,397,509; Nov. 22.
- Godfrey, Raleigh W., assignor of three-fourths to S. S. Hobbs, Oberlin, Ohio. Automatic talking-machine. No. 1,399,110; Dec. 6.
- Godfrey, Truman M. (See Bodman, J. W., and Godfrey.)
- Godfrey, Truman M., Chicago, Ill., assignor to The American Cotton Oil Company, New York, N. Y. Oil-proof and greaseproof paper can. No. 1,395,272; Nov. 1.
- Godfriaux, Louis E., assignor to Gisholt Machine Company, Madison, Wis. Force-feed oiler. No. 1,394,168; Oct. 18.
- Godien, Ephraim, assignor of twenty per cent. to E. Bouthillet, Marlboro, Mass. Edge-trimming machine. No. 1,383,297; July 5; v. 288; p. 8.
- Godillon, Victor H., assignor to Société d'Optique et de Mécanique de Haute Précision, Paris, France. Stabilizing apparatus for sighting instruments. No. 1,393,437; Oct. 11.



*Alphabetical list of patentees—Continued.*

- Godin, Adrien, Paris, France. Elevator, conveyer, and crane. No. 1,396,193; Nov. 8.
- Goding, Frank M., Livermore Falls, Me. Couch-roll lifter. No. 1,368,715; Feb. 15; v. 283; p. 464.
- Godkevitch, Abraham H., New York, N. Y. Wooden shipping-case. No. 1,391,470; Sept. 20; v. 290; p. 539.
- Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Lamp. No. 1,377,197; May 10; v. 286; p. 211.
- Godley, Charles E., assignor to Edmunds & Jones Corporation, Detroit, Mich. Lamp. No. 1,382,903; June 28; v. 287; p. 654.
- Godsal, Philip T., Iscoyd Park, England. Small-arm. No. 1,393,112; Oct. 11.
- Godshalk, Elmer G., Blackwell, Okla. Lock-casing. No. 1,382,186; June 21; v. 287; p. 463.
- Godward, Ernest R., Invercargill, New Zealand. Surface vaporizer attachment for carbureters. No. 1,383,932; July 5; v. 288; p. 139.
- Goebel, George, assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Stopper-extractor. No. 1,395,103; Oct. 25.
- Goetze, Rudolf F., Elyria, Ohio. Condenser. No. 1,399,611; Dec. 6.
- Goedde, Edward C., Chicago, Ill. Phonograph-record holder. No. 1,393,771; Oct. 18.
- Goedeke, Fred W. (See Espenlaub, J. W., Northall, and Goedeke.)
- Goedeke, Frederick W., Evansville, Ind. Corner-iron for baskets, boxes, &c. No. 1,398,371; Nov. 29.
- Goergen, John P., and J. G. Ruesch, Milwaukee, Wis. Shock-absorber. No. 1,368,429; Feb. 15; v. 283; p. 405.
- Goerner, Gustav W., Boston, Mass., assignor to The Roesler and Hasslacher Chemical Company, Perth Amboy, N. J. Cellulose-acetate solution. No. 1,384,188; July 12; v. 288; p. 242.
- Goersch, William F. J., Cleveland, Ohio. Suspension-wheel. No. 1,389,826; Sept. 6; v. 290; p. 53.
- Goertz, August, & Co. (See Goertz, Frederick, assignor.)
- Goertz, Frederick, Newark, N. J., assignor to August Goertz & Co. Rack device. No. 1,375,840; Apr. 26; v. 285; p. 609.
- Goettel, Samuel C., Cincinnati, Ohio. Guard for presses. No. 1,365,315; Jan. 11; v. 282; p. 289.
- Goetz, John, Wauwatosa, and F. A. Parsons, Milwaukee, assignors to The Kemp Smith Manufacturing Co., West Allis, Wis. Table-operating mechanism for machine-tools. No. 1,397,731; Nov. 22.
- Goetz, Oscar H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,379,097; May 24; v. 286; p. 700.
- Goetz, Oscar H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,381,182; June 14; v. 287; p. 217.
- Goetz, Oscar H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Rear bumper for Ford cars. No. 1,381,914; June 21; v. 287; p. 414.
- Goetz, Oscar H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,394,892; Oct. 25.
- Goetz, Oscar H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,394,893; Oct. 25.
- Goetz, Oscar H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Bumper. No. 1,400,674; Dec. 20.
- Goetze, Oscar A., Golden, Colo. Shears. No. 1,391,827; Sept. 27; v. 290; p. 684.
- Goewey, James E., Newark, N. J., assignor to Diamond Expansion Bolt Company, New York, N. Y. Toggle. No. 1,373,188; Mar. 29; v. 284; p. 868.
- Goff, Andrew M., Youngstown, Ohio. Body construction for cars, wagons, &c. No. 1,372,745; Mar. 29; v. 284; p. 779.
- Goff, Douglas C., assignor of one-half to W. R. Anderson, Lynchburg, Va. Seat. No. 1,400,875; Dec. 20.
- Goff, Robert P., Gary, W. Va. Fireplace. No. 1,396,366; Nov. 8.
- Goforth, James E., Des Moines, Iowa. Sewing-machine. No. 1,398,546; Nov. 29.
- Gogay, Henry R., Columbus, Ohio, assignor to Solar Metal Products Company, Inc., New York, N. Y. Sheet-metal door. No. 1,391,949; Sept. 27; v. 290; p. 710.
- Gogay, Henry R., Columbus, Ohio, assignor to Solar Metal Products Company, New York, N. Y. Sheet-metal door. No. 1,391,950; Sept. 27; v. 290; p. 710.
- Gogerty, Henry B., Des Moines, Iowa. Stock-waterer. No. 1,394,517; Oct. 25.
- Goguen, Charles J., Worcester, and J. J. Provost, Auburn, Mass., assignors to Brown & Sharpe Manufacturing Company, Providence, R. I. Micrometer taper gage. No. 1,398,296; Nov. 29.
- Gohlke, Max., Pankow, near Berlin, Germany. Ball-bearing. No. 1,391,379; Sept. 20; v. 290; p. 521.
- Gold Car Heating & Lighting Company. (See Gold, Edward E., assignor.)
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Vapor-valve for steam-heating. No. 1,365,587; Jan. 11; v. 282; p. 342.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Car-heating system. No. 1,369,276; Feb. 22; v. 283; p. 611.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Controller for heating systems. No. 1,373,417; Apr. 5; v. 285; p. 7.
- Gold, Edward E., assignor to Gold Car Heating & Lighting Company, New York, N. Y. Safety positive lock for hose-couplings. No. 1,395,273; Nov. 1.
- Gold, Egbert H. (See Schreiber, Edward A., assignor.)
- Gold, Egbert H., Chicago, Ill. Steam-heating apparatus for railway-cars. No. 1,384,751; July 19; v. 288; p. 440.
- Gold, Michael. (See Schwarzenbach, Alwin J., assignor.)
- Gold, Samuel M. (See Rachlin, Max, assignor.)
- Gold, Samuel B., Independence, assignor to Weber Engine Company, Kansas City, Mo. Crude-oil engine. No. 1,371,024; Mar. 8; v. 284; p. 286.
- Goldberg Calculating Machine Company. (See Goldberg, Hyman E., now Hyman Golber, assignor.)
- Goldberg, H. M. (See Keough, Edwin E., assignor.)
- Goldberg, Hyman E., Chicago, Ill., (now by judicial change of name H. Golber,) assignor to Goldberg Calculating Machine Company. Calculating-machine. No. 1,369,097; Feb. 22; v. 283; p. 577.
- Goldberg, Hyman E., New York, N. Y., (now by judicial change of name Hyman Golber,) assignor, by mesne assignments, to Remington Accounting Machine Corporation. Calculating-machine. No. 1,380,792; June 7; v. 287; p. 89.
- Goldberg, Hyman E., (now by judicial change of name Hyman Golber,) Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Calculating-machine. No. 1,396,326; Nov. 8.
- Goldberg, Hyman E., (now by judicial change of name H. Golber,) Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Algebraic-total calculating-machines. No. 1,398,074; Nov. 22.
- Goldberg, Jacob, assignor to The Goldberg Padding Machine Company, Cincinnati, Ohio. Knee lifter-pad for sewing-machines. No. 1,367,040; Feb. 1; v. 283; p. 31.
- Goldberg, John H., Washington, D. C. Combination clothes hanger and brush. No. 1,392,634; Oct. 4.
- Goldberg, John S., assignor to Stromberg Motor Devices Company, Chicago, Ill. Priming means for internal-combustion engines. No. 1,365,824; Jan. 18; v. 282; p. 427.
- Goldberg, Nathan E., New York, N. Y. Planchette. No. 1,366,174; Jan. 18; v. 282; p. 495.
- Goldberg Padding Machine Company, The. (See Goldberg, Jacob, assignor.)
- Goldberg, Rubin, Brooklyn, N. Y. Corner-fastening for metal bedsteads. No. 1,382,351; June 21; v. 287; p. 495.
- Goldberg, Samuel, New York, N. Y. Bedclothes-holder. No. 1,365,169; Jan. 11; v. 282; p. 260.
- Goldberg, Solomon H., Chicago, Ill., assignor to C. S. Bird, Walpole, Mass. Machine for making flexible waterproof roofing. No. 1,392,323; Oct. 4.
- Goldberg, Sydney S. (See Hirschwitz, Aaron, assignor.)
- Goldberger, Ernest, Detroit, Mich. Tractor-wheel. No. 1,382,597; June 21; v. 287; p. 543.
- Goldberger, Ernest, Detroit, Mich. Draft-rigging. No. 1,383,716; July 5; v. 288; p. 96.
- Goldberger, Ernest, Detroit, Mich. Disk clutch. No. 1,383,717; July 5; v. 288; p. 96.
- Golden, Alphonsus L., Oakland, assignor to National Radio Company, San Francisco, Calif. Apparatus for the production of intermittent or continuous high-frequency oscillations. No. 1,372,808; Mar. 29; v. 284; p. 791.
- Golden, Charles E. (See Anderson, Edward V., assignor.)
- Golden, Daniel J., Brockton, Mass. Sporting-shoe. No. 1,390,698; Sept. 13; v. 290; p. 320.
- Golden, Daniel J., Brockton, Mass. Sporting-shoe. No. 1,392,142; Sept. 27; v. 290; p. 749.
- Golden, Eric H., Lewistown, Mo. Treating-cabinet. No. 1,364,365; Jan. 4; v. 282; p. 62.
- Golden, James M., Los Angeles, Calif. Hair-net holders. No. 1,375,381; Apr. 19; v. 285; p. 490.
- Golden, Robert, Brooklyn, N. Y. Clasp for documents, &c. No. 1,401,770; Dec. 27.
- Golden, Thomas B., assignor to D. R. Knapp, Pottsville, Pa. Reclaiming broken rolls. No. 1,379,975; May 31; v. 286; p. 941.
- Goldfinch, William H. (See Sinfield, E., and Goldfinch.)
- Goldie, William, Wilkesburg, Pa. Combined metallic and concrete floor and ceiling construction. No. 1,375,288; Apr. 19; v. 285; p. 473.
- Goldman, Barney, New York, N. Y. Roof leader connection. No. 1,380,793; June 7; v. 287; p. 90.
- Goldman, Barney, New York, N. Y. Snow-melting apparatus. No. 1,391,889; Sept. 27; v. 290; p. 697.
- Goldman, Isaac, assignor to Hyman & Oppenheim, New York, N. Y. Hair-roll. No. 1,364,366; Jan. 4; v. 282; p. 62.
- Goldman, Isaac, assignor to Hyman & Oppenheim, New York, N. Y. Hair-ornament attachment. No. 1,390,778; Sept. 13; v. 290; p. 337.
- Goldman, Isadore, and L. Schlesinger, San Francisco, Calif. Display-box. No. 1,367,248; Feb. 1; v. 283; p. 72.
- Goldman, Max M., Somerville, Mass. Towing device. No. 1,378,225; May 17; v. 286; p. 462.
- Goldmann, Paul E., Pittsburgh, Pa. Advertising device. No. 1,379,861; May 31; v. 286; p. 919.



## Alphabetical list of patentees—Continued.

- Goldner, Elmer M., Elston, Iowa. Post-hole-boring machine. No. 1,370,430; Mar. 1; v. 284; p. 128.
- Goldner, Simon, New York, N. Y. Combined bracket and fastener. No. 1,386,468; Aug. 2; v. 289; p. 98.
- Goldschmidt, Rudolf, Berlin, Germany, assignor to Det Tekniske Forsgssaktieselskab, Charlottenlund, Denmark. Mechanism for converting rotary into reciprocatory motion. No. 1,386,329; Aug. 2; v. 289; p. 73.
- Goldschmidt, Victor M., assignor to Det Norske Aktieselskab for elektrokemisk Industri, Norsk Industrihøypotekbank, Christiania, Norway. Manufacture of aluminium compounds from silicates. No. 1,380,552; June 7; v. 287; p. 43.
- Goldschmidt, Victor M., assignor to Titan Co., A/S Christiania, Norway. Titanium pigment and its production. No. 1,389,191; Aug. 30; v. 289; p. 875.
- Goldsmith, Alfred N., and J. Weinberger, New York, N. Y., assignors to General Electric Company. Radio receiving system. No. 1,396,571; Nov. 8.
- Goldsmith, Byron B., New York, N. Y. Producing condensation products. No. 1,375,959; Apr. 26; v. 285; p. 632.
- Goldsmith, Edwin M., assignor to Friedberger-Aaron Manufacturing Company, Philadelphia, Pa. Doll. No. 1,370,107; Mar. 1; v. 284; p. 66.
- Goldsmith, Emanuel O., Memphis, Tenn. Heel-guard and toe-clip. No. 1,387,383; Aug. 9; v. 289; p. 355.
- Goldsmith, Joseph B., *et al.* (See Scott, William, assignor.)
- Goldsmith, Joseph, Jr., Chicago, Ill. Hair-curling device. No. 1,400,812; Dec. 20.
- Goldsmith, Louis. (See Kops W., and Goldsmith.)
- Goldsmith, Nathan, Newark, N. J. Wardrobe-trunk. No. 1,373,189; Mar. 29; v. 284; p. 868.
- Goldsmith, Nathaniel O., assignor to The Weir Frog Company, Norwood, Ohio. Metal tie. No. 1,384,316; July 12; v. 288; p. 268.
- Goldsmith, William M., Cincinnati, Ohio. Metal bead for plastics. No. 1,379,862; May 31; v. 286; p. 919.
- Goldsmith, William M., Cincinnati, Ohio. Insert for plastic materials. No. 1,394,002; Oct. 18.
- Goldstein, Albion M., St. Louis, Mo. Combined collar-button and necktie-guiding device. No. 1,373,418; Apr. 5; v. 285; p. 7.
- Goldstein, Barnett H., assignor of one-sixth to M. Pugatsky, one-sixth to R. D. Von Rentsch and one-sixth to J. Goldstein, New York, N. Y. Garment-seam. No. 1,384,609; July 12; v. 288; p. 330.
- Goldstein, Charles, Chicago, Ill., assignor to P. V. Spinner. Loose-leaf binder. No. 1,401,250; Dec. 27.
- Goldstein, Harry B., St. Paul, Minn. Form for hat-crowns. No. 1,381,915; June 21; v. 287; p. 414.
- Goldstein, Jacob, *et al.* (See Goldstein, Barnett H., assignor.)
- Goldstein, Louis. (See Halpern, L. N., and Goldstein.)
- Goldstein, Louis, Brooklyn, N. Y. Turnover-machine. No. 1,381,820; June 14; v. 287; p. 336.
- Goldstein, Samuel, New York, N. Y. Automobile-signal casing. No. 1,366,785; Jan. 25; v. 282; p. 660.
- Goldstein, Samuel, Brooklyn, N. Y. Clamp for concrete-column forms. No. 1,370,888; Mar. 8; v. 284; p. 260.
- Goldstein, Samuel, New York, N. Y. Automobile-signal casing. No. 1,385,913; July 26; v. 288; p. 753.
- Goldstein, Samuel H., Philadelphia, Pa. Stop-motion. No. 1,394,546; Oct. 25.
- Goldstine, Harry H. (See Cunningham, Charles A., assignor.)
- Goldston, Charles. (See Love, C. A., and Goldston.)
- Goldstone, Herman A., New York, N. Y. Buyer's guide. No. 1,376,198; Apr. 26; v. 285; p. 677.
- Goldstone, Max, New Haven, Conn. Burglar-alarm. No. 1,377,198; May 10; v. 286; p. 212.
- Golein, Mark, Brooklyn, N. Y. Flying-machine. No. 1,366,255; Jan. 18; v. 282; p. 511.
- Golein, Mark, Brooklyn, N. Y. Aeroplane. No. 1,390,901; Sept. 13; v. 290; p. 362.
- Golein, Mark, Brooklyn, N. Y. Resilient material. No. 1,400,151; Dec. 13.
- Golightly, William J., Kokomo, Ind., assignor to Pittsburgh Plate Glass Company. Glass-casting table. No. 1,366,786; Jan. 25; v. 282; p. 661.
- Golle, Edwin A., Grand Beach, Mich. Air-compressor. No. 1,370,305; Mar. 1; v. 284; p. 104.
- Golle, Edwin A., Grand Beach, Mich. Corn-planter. No. 1,398,428; Nov. 29.
- Gollings, Ellick H., Chicago, Ill. Rotary power device. No. 1,378,855; May 24; v. 286; p. 655.
- Gollings, Ellick H., Chicago, Ill. Rotary power device. No. 1,378,856; May 24; v. 286; p. 655.
- Goltry, Annie, North Platte, Nebr. Hoisting apparatus. No. 1,374,444; Apr. 12; v. 285; p. 247.
- Gomber, George W., Conyngham, assignor to A. W. Drake Manufacturing Co., Hazleton, Pa. Cork-extractor. No. 1,375,382; Apr. 19; v. 285; p. 490.
- Gomber, George W., Conyngham, Pa., assignor, by mesne assignments, to A. W. Drake Manufacturing Company. Insect-killing device. (Reissue.) No. 15,154; July 19; v. 288; p. 563.
- Gomez, Blas, El Paso, Tex. Sprinkling device. No. 1,373,324; Mar. 29; v. 284; p. 895.
- Gomez, Joseph T., Goldfield, Nev. Spark-plug cleaner. No. 1,391,471; Sept. 20; v. 290; p. 539.
- Gomoll, Paul R., Oshkosh, Wis. Holder or exhibitor. No. 1,386,469; Aug. 2; v. 289; p. 99.
- Gonder, Joseph F., Newark, N. J. Spark-plug cleaner. No. 1,389,651; Sept. 6; v. 290; p. 19.
- Gondolf, Nicholas J., New Orleans, La. Axle-mounting. No. 1,394,491; Oct. 18.
- Gonia, George B., Somerville, Mass. Track-switch. No. 1,380,099; May 31; v. 286; p. 964.
- Gonsky, Peter R., Chicago, Ill. Container for new and discarded articles. No. 1,379,098; May 24; v. 286; p. 701.
- Gontrum, Henry H., Baltimore, and H. G. Coster, Elliott City, Md. Truck. No. 1,368,716; Feb. 15; v. 283; p. 464.
- Gonzalez, Alvin R., assignor of one-half to G. F. Colton, Los Angeles, Calif. Railway construction. No. 1,390,203; Sept. 6; v. 290; p. 129.
- Gonzalez, Feliciano, New York, N. Y. Dental tool. No. 1,379,445; May 24; v. 286; p. 766.
- Gonzalez, Homobono, Paranaque, Philippine Islands. Pen-clip and penholder. No. 1,383,298; July 5; v. 288; p. 8.
- González, José E., Union de Reyes, Cuba. Burner. No. 1,373,610; Apr. 5; v. 285; p. 45.
- Gonzalez, Miguel, New York, N. Y. Ice-box. No. 1,367,693; Feb. 8; v. 283; p. 218.
- Gonzalez, Ramon, Manila, Philippine Islands. Compasses. No. 1,392,825; Oct. 4.
- Gooch, Athelstan E. (See Randall, Richard H., assignor.)
- Gooch, Charles H. J. (See Usher, H., and Gooch.)
- Gooch, Claiborne W., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,395,044; Oct. 25.
- Good, Emil J., Canton, Ohio. Blow-torch. No. 1,368,625; Feb. 15; v. 283; p. 446.
- Good, Frank H., Hamilton, C. E. Danielson, and F. Pelling, Brantford, Ontario, Canada. Meat-curing injector. No. 1,370,788; Mar. 8; v. 284; p. 242.
- Good Inventions Co. (See Good, John, assignor.)
- Good, John, Brooklyn, N. Y. Automobile-engine fuel-supply. No. 1,365,980; Jan. 18; v. 282; p. 458.
- Good, John, Brooklyn, N. Y. Liquid-fuel burner. No. 1,366,787; Jan. 25; v. 282; p. 661.
- Good, John, Brooklyn, N. Y. Combustion-engine oil-purifier. No. 1,369,803; Mar. 1; v. 284; p. 10.
- Good, John, Garden City, assignor to Good Inventions Co., Brooklyn, N. Y. Combustion apparatus. No. 1,373,190; Mar. 29; v. 284; p. 868.
- Good, John, Garden City, assignor to Good Inventions Co., Brooklyn, N. Y. Combustion-engine. No. 1,376,527; May 3; v. 286; p. 28.
- Good, John, Brooklyn, assignor to Good Inventions Co., New York, N. Y. Operating internal-combustion engines. No. 1,377,989; May 10; v. 286; p. 365.
- Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Combustion-engine. No. 1,377,990; May 10; v. 286; p. 365.
- Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Combustion apparatus. No. 1,379,177; May 24; v. 286; p. 716.
- Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Inclosed combustion apparatus and ignition. No. 1,379,178; May 24; v. 286; p. 716.
- Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Inclosed combustion apparatus. No. 1,379,179; May 24; v. 286; p. 716.
- Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Liquid-fuel burner. No. 1,379,180; May 24; v. 286; p. 716.
- Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Internal-combustion-engine power plants. No. 1,387,848; Aug. 16; v. 289; p. 499.
- Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Burner-regulation system. No. 1,393,280; Oct. 11.
- Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Inclosed vapor-burner. No. 1,394,894; Oct. 25.
- Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Automobile-engine fuel-supply. No. 1,397,492; Nov. 15.
- Good, Joseph A., Chicago, Ill. Liquid-dispenser. No. 1,385,127; July 19; v. 288; p. 519.
- Good Luck Tire & Rubber Co. (See Stickel, Charles W., assignor.)
- Goodall, Howard W., Aldan, Pa. Metal-lined hose. No. 1,385,821; July 26; v. 288; p. 735.
- Goodchild, Walter, Hoboken, N. J., assignor, by mesne assignments, to Nips, Incorporated. Apparatus and process for filling and closing capillary containers. No. 1,397,631; Nov. 22.
- Goode, Henry C., Macon, Ga. Self-serving store. No. 1,368,924; Feb. 15; v. 283; p. 504.
- Goodell, William, Millinocket, assignor, by mesne assignments, to The Cone Bag Company, Madison, Me. Partition forming and attaching machine. No. 1,400,876; Dec. 20.
- Goodenberger, Daniel E., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Manufacturing solid tires. No. 1,392,576; Oct. 4.
- Goodfellow, Allan, Norton, Mass. Lawn-mower attachment. No. 1,379,555; May 24; v. 286; p. 787.
- Goodfellow, Frank A., Altoona, Pa. Forced-feed lubricator. No. 1,369,422; Feb. 22; v. 283; p. 639.



*Alphabetical list of patentees—Continued.*

- Goodfellow, John H., Buffalo, N. Y. Boiler-flue cleaner 1,400,152; Dec. 13.
- Goodfellow, John H., Buffalo, N. Y. Boiler-flue scraper. No. 1,400,951; Dec. 20.
- Goodfellow, Joseph. (See Chapman, Charles E., assignor.)
- Goodfellow, Willard J., Bentley Springs, Md. Press-roll set. No. 1,369,335; Feb. 22; v. 283; p. 622.
- Goodfellow, Willard J., Bentley Springs, Md. Cigar-binder-cutting bench. No. 1,370,431; Mar. 1; v. 284; p. 128.
- Goodhart, Richard W., Pensacola, Fla. Sectional pneumatic tire. No. 1,364,930; Jan. 11; v. 282; p. 214.
- Goodhart, Richard W., Pensacola, Fla. Pneumatic tire. No. 1,364,931; Jan. 11; v. 282; p. 215.
- Goodhue, Julian G., and H. L. Trube, Chicago, Ill.; said Trube assignor to said Goodhue. Preparation of food and food products. No. 1,365,909; Jan. 18; v. 282; p. 444.
- Goodhue, Julian G., and H. L. Trube, Chicago, Ill.; said Trube assignor to said Goodhue. Preparation of food and food products. No. 1,365,910; Jan. 18; v. 282; p. 444.
- Gooding, George E. (See Robinson, J. T., Gooding, and Russo.)
- Gooding, George F., Seattle, Wash. Tool for removing broken screws and bolts. No. 1,366,647; Jan. 25; v. 282; p. 633.
- Gooding, William S., Chicago, Ill. Compound tool rest and holder for lathes. No. 1,383,299; July 5; v. 288; p. 8.
- Goodlake, Frederick D., West Palm Beach, Fla. Repairing tire-casings. No. 1,374,846; Apr. 12; v. 285; p. 325.
- Goodloe, Aareiel E., Chattanooga, Tenn. Surgical instrument. No. 1,397,732; Nov. 22.
- Goodman, Arlie H., assignor to Blaw-Knox Company, Pittsburgh, Pa. Port construction for furnaces. No. 1,388,559; Aug. 23; v. 289; p. 695.
- Goodman, Clarence C., Elyria, Ohio. Rubber heel. No. 1,387,976; Aug. 16; v. 289; p. 523.
- Goodman, David T., Altoona, Pa. Switching-cable hook. No. 1,387,703; Aug. 16; v. 289; p. 469.
- Goodman, Eugene F., New York, N. Y. Garment-supporter. No. 1,364,746; Jan. 4; v. 282; p. 135.
- Goodman, Frank O., Chicago, Ill. Device for elevating wall-molds. No. 1,389,044; Aug. 30; v. 289; p. 846.
- Goodman, Harry J., Chicago, Ill. Motorcycle-tender. No. 1,383,933; July 5; v. 288; p. 140.
- Goodman, Joseph, Pittsburgh, Pa. Lighting-fixture. No. 1,366,648; Jan. 25; v. 282; p. 633.
- Goodman, Joseph, Hays, England. Electrical apparatus having windings. No. 1,390,779; Sept. 13; v. 290; p. 337.
- Goodman, Joseph, assignor to C. Cowles & Co., New Haven, Conn. Handle-lock. No. 1,372,168; Mar. 22; v. 284; p. 626.
- Goodman, Joseph E. (See Campbell, Ernest P., assignor.)
- Goodman Manufacturing Company. (See Davis, Charles E., assignor.)
- Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
- Goodman Manufacturing Company. (See Sloane, William W., assignor.)
- Goodreau, Evarist, Cordova, Alaska. Anchor. No. 1,373,067; Mar. 29; v. 284; p. 843.
- Goodrich, B. F., Company, The. (See Butler, James L., assignor.)
- Goodrich, B. F., Company, The. (See Davidson, Elias E., assignor.)
- Goodrich, B. F., Company, The. (See Denmire, Harold A., assignor.)
- Goodrich, B. F., Company. (See Freeman, Walter B., assignor.)
- Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
- Goodrich, B. F., Company, The. (See Geer, W. C., Noble, and Teed, assignors.)
- Goodrich, B. F., Company, The. (See Geer, William C., assignor.)
- Goodrich, B. F., Company, The. (See Hassler, Robert P., assignor.)
- Goodrich, B. F., Company, The. (See Hoffman, H. A., and Juve, assignors.)
- Goodrich, B. F., Company, The. (See Kohler, C. W., Hoffman, and Freeman, assignors.)
- Goodrich, B. F., Company, The. (See Kuentzel, Curt, assignor.)
- Goodrich, B. F., Company, The. (See MacDonald, Frank J., assignor.)
- Goodrich, B. F., Company, The. (See Moon, Alfred E., assignor.)
- Goodrich, B. F., Company, The. (See Parker, Victor A., assignor.)
- Goodrich, B. F., Company, The. (See Pearce, William, assignor.)
- Goodrich, B. F., Company, The. (See Pierson, Robert M., assignor.)
- Goodrich, B. F., Company, The. (See Wagenhorst, James H., assignor.)
- Goodrich, Chauncey M., U. S. Army. Ventilator. No. 1,381,630; June 14; v. 287; p. 299.
- Goodrich, E. H., and H. C. Martinelli, Springfield, Mass. Motion-picture reel. No. 1,389,500; Aug. 30; v. 289; p. 936.
- Goodrich, George E., Providence, R. I. Fastener. No. 1,375,693; Apr. 26; v. 285; p. 582.
- Goodrich, George N., Detroit, Mich. Carbureter. No. 1,387,484; Aug. 16; v. 289; p. 425.
- Goodrich, James B., Los Angeles, Calif. Dental-floss holder. No. 1,364,367; Jan. 4; v. 282; p. 62.
- Goodrick, Mildred B., Clintonville, Wis., (now by marriage M. D. Reynolds). Hat. No. 1,369,971; Mar. 1; v. 284; p. 41.
- Goodridge, Gilbert W., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Splicing-tool. No. 1,382,500; June 21; v. 287; p. 524.
- Goodridge, Gilbert W., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Splicing-tool. No. 1,389,584; Sept. 6; v. 290; p. 5.
- Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric-range switch. No. 1,390,780; Sept. 13; v. 290; p. 337.
- Goodrum, Charles L. (See Clausen, H. P., and Goodrum.)
- Goodrum, Charles L. (See McQuarrie, J. L., and Goodrum.)
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. No. 1,364,106; Jan. 4; v. 282; p. 11.
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Calling device. No. 1,369,022; Feb. 22; v. 283; p. 562.
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective switch. No. 1,375,691; Apr. 26; v. 285; p. 582.
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching device. No. 1,375,692; Apr. 26; v. 285; p. 582.
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,378,947; May 24; v. 286; p. 673.
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling device. No. 1,383,802; July 5; v. 28; p. 113.
- Goodrum, Charles L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Coin-collect system. No. 1,386,701; Aug. 9; v. 289; p. 217.
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,387,255; Aug. 9; v. 289; p. 327.
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,393,521; Oct. 11.
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,393,522; Oct. 11.
- Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,396,741; Nov. 15.
- Goodrum, Charles L., New York, and H. P. Clausen, Mount Vernon, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,387,886; Aug. 9; v. 289; p. 355.
- Goodspeed Machine Company. (See Witt, John J., assignor.)
- Goodwin, A. B. (See Urie, James W., assignor.)
- Goodwin, Arthur R., Boscombe, Kidderminster, England. Treatment of semolina. No. 1,368,792; Feb. 15; v. 283; p. 478.
- Goodwin, Edward W., assignor to General Motors Corporation, Detroit, Mich. Adjustable windshield-support. No. 1,381,116; June 14; v. 287; p. 205.
- Goodwin, George D., McRae, Mont. Invalid-chair. No. 1,380,056; May 31; v. 286; p. 956.
- Goodwin, George S., assignor to W. P. Murphy, Chicago, Ill. End reinforcement for box-cars. No. 1,384,831; July 19; v. 288; p. 457.
- Goodwin, Grover T., Crawford, Colo. Cultivator. No. 1,382,422; June 21; v. 287; p. 509.
- Goodwin, Guy L. (See Prutzman, P., and Goodwin.)
- Goodwin, Jay L., assignor to one-half to W. Thomas, Stockton, Calif. Bull-gear dust-shield for tractors. No. 1,384,189; July 12; v. 288; p. 242.
- Goodwin, John F., Sarnia, Ontario, Canada. Water-heater using a fluid fuel. No. 1,382,283; June 21; v. 287; p. 482.
- Goodwin, John O. (See Griffiths, R. T., Anderson, and Goodwin.)
- Goodwin, Mary. (See Goodwin, William and M.)
- Goodwin, Thomas F., Yelm, Wash. Direction-indicator for vehicles. No. 1,400,601; Dec. 20.
- Goodwin, William and M., Peterboro, Ontario, Canada. Valve. No. 1,375,585; Apr. 19; v. 285; p. 528.
- Goodwin, William B., Columbus, Ohio. Cushion vehicle-wheel. No. 1,394,492; Oct. 18.
- Goodyear, Edward T. P., Reigate Heath, England. Goggles. No. 1,397,250; Nov. 15.
- Goodyear, Katharine F., administratrix. (See Goodyear, Nelson.)
- Goodyear, Nelson, deceased, by K. F. Goodyear, administratrix, New York, N. Y., assignor, by mesne assignments, to The Pneumatic Acetylene Generator Corporation. Acetylene-generator. No. 1,373,419; Apr. 5; v. 285; p. 7.



*Alphabetical list of patentees—Continued.*

- Goodyear Redwood Co. (See Lawson, Davenport, assignor.)
- Goodyear Tire & Rubber Company, The. (See Bedford, C. W., and Kelly, assignors.)
- Goodyear Tire & Rubber Company, The. (See Bedford, Clayton W., assignor.)
- Goodyear Tire & Rubber Company, The. (See Boyce, John N., assignor.)
- Goodyear Tire & Rubber Company, The. (See Burdette, Richard S., assignor.)
- Goodyear Tire & Rubber Company, The. (See Darrow, Burgess, assignor.)
- Goodyear Tire & Rubber Company, The. (See Glennon, W. K., and Wattleworth, assignors.)
- Goodyear Tire & Rubber Company, The. (See Greenough, Gordon B., assignor.)
- Goodyear Tire & Rubber Co., The. (See Harsel, W. B., and Nall, assignors.)
- Goodyear Tire & Rubber Company. (See Harsel, William B., assignor.)
- Goodyear Tire & Rubber Company, The. (See Hartong, Robert C., assignor.)
- Goodyear Tire & Rubber Company, The. (See Heffelfinger, Glen B., assignor.)
- Goodyear Tire and Rubber Company, The. (See Humphrey, Dwight E., assignor.)
- Goodyear Tire & Rubber Company, The. (See Kilborn, Karl B., assignor.)
- Goodyear Tire & Rubber Company, The. (See Kimmich, Elmer G., assignor.)
- Goodyear Tire & Rubber Company, The. (See Landon, Chauncey L., assignor.)
- Goodyear Tire & Rubber Company, The. (See Maranville, Alger G., assignor.)
- Goodyear Tire & Rubber Company, The. (See Miller, Harry A., assignor.)
- Goodyear Tire and Rubber Co. (See Nall, Edward, assignor.)
- Goodyear Tire & Rubber Company, The. (See North, Clayton O., assignor.)
- Goodyear Tire & Rubber Company, The. (See Post, Clifford W., assignor.)
- Goodyear Tire & Rubber Company, The. (See Preston, Ralph A. D., assignor.)
- Goodyear Tire & Rubber Company, The. (See Replogle, Mark A., assignor.)
- Goodyear Tire & Rubber Company, The. (See Trogner, Roland S., assignor.)
- Goodyear Tire & Rubber Company, The. (See Tyler, W. C., and Koza, assignors.)
- Goodyear Tire & Rubber Company, The. (See Upson, Ralph H., assignor.)
- Goodyear Tire & Rubber Company, The. (See Weatherill, Ambrose, assignor.)
- Goodyear Tire & Rubber Co. of Canada, Limited, The. (See Hardy, Arthur M., assignor.)
- Goodyear Tire & Rubber Company of Canada Limited. (See MacArthur, Duncan A., assignor.)
- Goodyear, William F., Liverpool, England. Cargo-net of wire or other rope. No. 1,367,249; Feb. 1; v. 283; p. 73.
- Goodyear's Metallic Rubber Shoe Company, The. (See Alm, J., and Hughes, assignors.)
- Goodyear's Metallic Rubber Shoe Company. (See Bradley, Charles E., assignor.)
- Goodyear's Metallic Rubber Shoe Company. (See Randall, Chester J., assignor.)
- Goodyear's Metallic Rubber Shoe Company, The. (See Randall, C. J., and Taylor, assignors.)
- Goodyear's Metallic Rubber Shoe Company, The. (See Scott, Reid B., assignor.)
- Gookin, Sylvester L., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Dyeletting-machine. No. 1,368,334; Feb. 15; v. 283; p. 389.
- Gookin, Sylvester L., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,371,364; Mar. 15; v. 284; p. 415.
- Goold, Luella L., assignor to Semi-Unit Corporation of Arlington, Mass. Hypodermic syringe. No. 1,388,946; Aug. 30; v. 289; p. 826.
- Goossen, Franz M., Hillsboro, Kans. Dumping-truck. No. 1,377,881; May 10; v. 286; p. 344.
- Goozey, Charles A., Providence, R. I. Slide-ring. No. 1,365,911; Jan. 18; v. 282; p. 445.
- Goozey, Charles A., Providence, R. I. Spring-ring. No. 1,399,207; Dec. 6.
- Gora, John, Johnsbury, Pa. Cheese-press. No. 1,392,143; Sept. 27; v. 290; p. 749.
- Go-ray, Mike, Indiana Harbor, Ind. Combined door-bell and burglar-alarm. No. 1,382,904; June 28; v. 287; p. 655.
- Gorby, Charles G., Atwater, Calif. Toy aeroplane. No. 1,373,325; Mar. 29; v. 284; p. 895.
- Gorden, G Murl, assignor to H. B. Adams, Portland, Oreg. Lever-lock. No. 1,388,035; Aug. 16; v. 289; p. 534.
- Gordon, Beirne, Jr. (See Rooney, Edwin H., assignor.)
- Gordon, Claude J., Saginaw, Mich. Toy vehicle. No. 1,383,397; July 5; v. 288; p. 29.
- Gordon, John. (See Shackleton, H. and Gordon.)
- Gordon, John, Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Aerial photographic apparatus. No. 1,372,746; Mar. 29; v. 284; p. 779.
- Gordon, John A., assignor of one-half to C. E. Hose, Kansas City, Mo. Air-filter. No. 1,398,685; Nov. 29.
- Gordon, John W., St. Catherines, Ontario, Canada. Pumping device. No. 1,386,330; Aug. 2; v. 289; p. 73.
- Gordon Pen Company. (See Abegg, Julius, assignor.)
- Gordon, Richard F., Liverpool, England. Typewriting-machine. No. 1,391,680; Sept. 27; v. 290; p. 655.
- Gordon, Robert W., and A. C. Daman, Denver, Colo., assignors to The Stearns Roger Manufacturing Company. Grinding-mill. No. 1,381,987; June 21; v. 287; p. 427.
- Gordon, Wiley P., Edgefield, S. C., and T. B. Jacobs, Taboro, N. C. Inner tube. No. 1,392,826; Oct. 4.
- Gordon, William, Union, N. J. Monkey-wrench. No. 1,380,794; June 7; v. 287; p. 90.
- Gordon, William A., assignor to Birmingham Iron Foundry, Derby, Conn. Machine for refining rubber. No. 1,364,549; Jan. 4; v. 282; p. 97.
- Gordon, William E., Winnipeg, Manitoba, Canada. Spring winding or stressing mechanism for talking-machines. No. 1,391,315; Sept. 20; v. 290; p. 508.
- Gordone, Robbie, New York, N. Y. Hair-curler. No. 1,383,099; June 28; v. 287; p. 692.
- Gore, Charles, Los Angeles, Calif. Mechanically-operated safety zone. No. 1,394,003; Oct. 18.
- Gore, Thomas, Brooklyn, N. Y. Wire-drawing machine. No. 1,379,181; May 24; v. 286; p. 716.
- Gorham, Edwin T., deceased; Grand Rapids Trust Company, executor, assignor to Wilmarth & Morman Company, Grand Rapids, Mich. Universal drill-grinder. No. 1,364,747; Jan. 4; v. 282; p. 135.
- Gorham Manufacturing Company. (See North, George H., assignor.)
- Gorham, Richard C., Kirklind, Ind. Cheese-cutter. No. 1,385,372; July 26; v. 288; p. 643.
- Gorham, William R., Alameda, Calif. Piston. No. 1,379,257; May 24; v. 286; p. 731.
- Gorlach, Karol, New York, N. Y. Fishing-tackle. No. 1,379,402; May 24; v. 286; p. 758.
- Gorman, Daniel J., Philadelphia, Pa., assignor to Gorman Fountain and Beverage Manufacturing Corporation. Mechanism for extracting and dispensing fruit-juices. No. 1,399,474; Dec. 6.
- Gorman Fountain and Beverage Manufacturing Corporation. (See Gorman, Daniel J., assignor.)
- Gorman, J. B., and J. A. Fertig, Wentworth, Mo. Drill-sharpener. No. 1,389,501; Aug. 30; v. 289; p. 937.
- Gorman, James, Chicago, Ill. Violin and producing the same. No. 1,400,153; Dec. 13.
- Gorman, John, Hot Springs, Ark. Headlight-dimmer. No. 1,379,556; May 24; v. 286; p. 787.
- Gorman, Matthew J., Ottawa, Ontario, Canada. License-indicator for motor-vehicles. No. 1,381,117; June 14; v. 287; p. 205.
- Gormley, Frank L., Brookline, Mass. Stop mechanism for lifting-jack. No. 1,380,375; June 7; v. 287; p. 10.
- Gormley, Frank L., Brookline, Mass. Antifriction mechanism for lifting-jacks. No. 1,381,988; June 21; v. 287; p. 428.
- Gormley, Frank L., Brookline, Mass. Speed-controlling mechanism for load-lifting devices. No. 1,383,199; June 28; v. 287; p. 711.
- Gormley, Frank L., Brookline, Mass. Braking means for load-lifting devices. No. 1,383,200; June 28; v. 287; p. 711.
- Gormley, Frank L., Brookline, Mass. Brake mechanism for lifting-jacks and the like. No. 1,383,201; June 28; v. 287; p. 712.
- Gormley, Frank L., Brookline, Mass. Device for retarding the speed of lowering of self-run-down lifting-jacks. No. 1,383,202; June 28; v. 287; p. 712.
- Gormley, Frank L., Brookline, Mass. Safety-lock for lifting-jacks. No. 1,368,793; Feb. 15; v. 283; p. 478.
- Gormley, Frank L., Brookline, Mass. High-speed lifting-jack. No. 1,376,869; May 3; v. 286; p. 93.
- Gormley, Frank L., Brookline, Mass. Lifting-jack. No. 1,378,226; May 17; v. 286; p. 462.
- Gormley, Frank L., Brookline, Mass. Speed-retarding device for lifting-jacks. No. 1,395,340; Nov. 1.
- Gormley, Frank L., Brookline, Mass. Self-lowering jack. No. 1,395,341; Nov. 1.
- Gormley, James J., and E. L. Thurber, Brooklyn, N. Y. Machine for paring nuts, &c. No. 1,365,396; Jan. 11; v. 282; p. 304.
- Gormley, James J., and E. L. Thurber, Brooklyn, N. Y. Machine for paring nuts, &c. No. 1,365,397; Jan. 11; v. 282; p. 304.
- Gorniak, Jozef, Denver, Colo. Bird-trap. No. 1,384,610; July 12; v. 288; p. 330.
- Gorniak, Jozef, Denver, Colo. Animal-trap. No. 1,384,611; July 12; v. 288; p. 330.
- Gorniak, Jozef, Denver, Colo. Beehive. No. 1,392,635; Oct. 4.
- Gorny, Pletr, East Chicago, Ind. Automobile signaling device. No. 1,366,317; Jan. 18; v. 282; p. 522.
- Gorritzen, Michael, Stavanger, Norway. Electric heating-plate. No. 1,384,660; July 12; v. 288; p. 341.
- Gorst, Clinton W., Black Earth, Wis. Cow-poke. No. 1,391,627; Sept. 20; v. 290; p. 571.
- Gorsuch, George J., Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Edge-finishing. No. 1,372,686; Mar. 29; v. 284; p. 767.



*Alphabetical list of patentees—Continued.*

- Corsuch, Richard H., Superior, Wis. Auto signaling device. No. 1,367,470; Feb. 1; v. 283; p. 117.
- Gorton, Lycurgus P., Indianapolis, Ind. Centrifugal lubricating-cup for loose pulleys. No. 1,388,251; Aug. 23; v. 289; p. 634.
- Goryl, Barthomiej. (See Lapka, A., and Goryl.)
- Gosar, Ivan, Bethlehem, Pa. Bulb-replacing tool. No. 1,368,717; Feb. 15; v. 283; p. 464.
- Gosch, Hans H., Randall, Minn. Road-drag. No. 1,373,236; Mar. 29; v. 284; p. 877.
- Gosney, Robert E., assignor of one-half to H. C. Traver, Bishop, Calif. Needle-plate holder. No. 1,375,383; Apr. 19; v. 285; p. 490.
- Gosney, Vance L., New Alexandria, Ohio. Antiskid device for motor-vehicles. No. 1,399,612; Dec. 6.
- Goss, Charles E. (See Goss, George W. and C. E.)
- Goss, Daniel B., Cuyahoga Falls, Ohio. Bumper and tire-carriers. No. 1,393,113; Oct. 11.
- Goss, George W. and C. E., Baltimore, Ohio. Gate-adjuster. No. 1,367,373; Feb. 1; v. 283; p. 98.
- Goss, George W. and C. E., Baltimore, Ohio. Farm implement. No. 1,389,652; Sept. 6; v. 290; p. 19.
- Goss, Gladys, Nevada, Mo. Jointed rag doll. No. 1,379,013; May 24; v. 286; p. 685.
- Goss, John H., Chicago, Ill. Device for cooling liquids. No. 1,382,638; June 28; v. 287; p. 604.
- Goss Printing Press Company. (See Walser, J. J., and Fankbouser, assignors.)
- Goss Printing Press Company. (See Walser, Joseph J., assignor.)
- Gosselin, Henry G. (See Mahern, W. B., and Gosselin.)
- Gossett, Frank E., Chicago, Ill. Combined exhaust and gear casing. No. 1,370,433; Mar. 1; v. 284; p. 128.
- Gossett, James H., Anderson, S. C. Automatic loom-starter. No. 1,369,651; Feb. 22; v. 283; p. 684.
- Gossling, Walter E. (See Noble, I. M., and Gossling.)
- Gostlin, Frederick J., assignor to The Star Rubber Company, Akron, Ohio. Apparatus for curing tire-casings. No. 1,378,172; May 17; v. 286; p. 452.
- Gotham Process Shank, Inc. (See Roberts, Frank E., assignor.)
- Gothberg, Herman E., Roselle Park, N. J. Mat. No. 1,384,891; July 19; v. 288; p. 468.
- Gotsche, Frank, San Francisco, Calif. Combined game and educational device. No. 1,376,199; Apr. 26; v. 285; p. 678.
- Gott, Winson G. (See Beardmore, Clarence A., assignor.)
- Gottlieb, Carl J. A., Aarhus, Denmark. Crosshead and piston-rod connection. No. 1,395,814; Nov. 1.
- Gottlieb, Carl J. A., Aarhus, Denmark. Lubricating device for stuffing-boxes. No. 1,395,815; Nov. 1.
- Gottlieb, Morris, Philadelphia, Pa. Spark-plug. No. 1,374,747; Apr. 12; v. 285; p. 325.
- Gottschalk, Henry L., Chicago, Ill. Adjustable lure-wab-bler. No. 1,389,644; Sept. 6; v. 290; p. 17.
- Gottschall, Simon, et al. (See Case, William A., assignor.)
- Goudard, Maurice and M. Mennesson, Neuilly-sur-Seine, France. Motorcycle. No. 1,371,783; Mar. 15; v. 284; p. 497.
- Goudeau, Wilton J., Grider, Ark. Vending-machine for grocery commodities and the like. No. 1,390,031; Sept. 6; v. 290; p. 95.
- Goudie, Le Roy, Kansas City, Mo. Awning. No. 1,386,860; Aug. 9; v. 289; p. 250.
- Goudis, George, Detroit, Mich. Means for uncurling films or strips. No. 1,385,537; July 26; v. 288; p. 677.
- Gouge, Horace E., Bristol, Tenn. Electric steering system. No. 1,376,271; Apr. 26; v. 285; p. 692.
- Gough, Charles M., assignor of one-half to J. Kittinger, East St. Louis, Ill. Pressing-pad. No. 1,390,124; Sept. 6; v. 290; p. 114.
- Gough, Stephen D., Seattle, Wash. Hair-ointment. No. 1,365,981; Jan. 18; v. 282; p. 458.
- Gough, Thomas E. (See Dellett, L. A., and Gough.)
- Gouin, Louis J., Freeport, Ill. Window-sash regulator and operator. No. 1,388,252; Aug. 23; v. 289; p. 634.
- Gould, Aaron H., and N. O., Detroit, Mich. Automobile-lamp. No. 1,368,430; Feb. 15; v. 283; p. 408.
- Gould, Aaron P., Northwikesboro, N. C., assignor to W. C. Meadows Mill Company. Grain-cleaning mechanism. No. 1,383,463; July 5; v. 288; p. 43.
- Gould, Benjamin A., Toronto, Ontario, Canada, assignor to Merrell-Soule Company, Syracuse, N. Y. Treating substances. No. 1,400,484; Dec. 13.
- Gould Coupler Company. (See Bouché, William F., assignor.)
- Gould Coupler Company. (See Creveling, John L., assignor.)
- Gould Coupler Company. (See Davis, Donald C., assignor.)
- Gould Coupler Company. (See Shedd, Marcellus R., assignor.)
- Gould, David F., Newark, N. J., assignor to General Lead Batteries Company. Separator for storage batteries and making. No. 1,390,355; Sept. 13; v. 290; p. 251.
- Gould & Eberhardt. (See Zimmermann, William F., assignor.) (Reissue.)
- Gould, Edwin J., Oakland, Calif., assignor to C. T. Henry, J. B. Millard, and J. T. Henry, York, Pa. Equalizing-gear. No. 1,372,656; Mar. 22; v. 284; p. 720.
- Gould, Edwin J., Oakland, assignor of one-tenth to R. M. Brooks, San Francisco, Calif. Flat-wheel tractor. No. 1,396,194; Nov. 8.
- Gould, Edwin J., and W. Pressler, Fruitvale, assignor to Modern Mechanical Engineering Company, Alameda, Calif. Auxiliary autocar-drive. No. 1,401,690; Dec. 27.
- Gould, Harry, Kingston, Pa. Attachment for artificial limbs. No. 1,368,136; Feb. 8; v. 283; p. 302.
- Gould, Harry V., Bridgeport, Conn. Parallel clamp for holding jig and fixture buttons. No. 1,394,004; Oct. 18.
- Gould, Joseph R., West Springfield, Mass. Fluid-actuated liquid-measuring pump. No. 1,391,104; Sept. 20; v. 290; p. 465.
- Gould, Nathaniel O. (See Gould, Aaron H., and H. O.)
- Gould Storage Battery Co. (See Chamberlain, Rufus N., assignor.)
- Gould Storage Battery Company. (See Haunz, Charles, assignor.)
- Gould, William H. P., Jr., Walla Walla, Wash. Plant-setting machine. No. 1,376,933; May 3; v. 286; p. 105.
- Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,401,251; Dec. 27.
- Goulding, James, Richmond, Victoria, Australia. Side-car attachment to motor-driven cycles. No. 1,372,418; Mar. 22; v. 284; p. 675.
- Goulston, George A. (See Smith, Northey V., assignor.)
- Gourland Typewriter Corporation. (See Spiro, Charles, assignor.)
- Gourlay, Clarence H. and W. E., Jamaica, N. Y. Combination-lock. No. 1,398,506; Nov. 29.
- Gourlay, Walter E. (See Gourlay, Clarence H. and W. E.)
- Gove, Edgar A., assignor to F. C. Osmer, New York, N. Y. Stationery. No. 1,385,992; Aug. 2; v. 289; p. 6.
- Gove, Emery T., Berkeley, Calif. Aeroplane-propeller. No. 1,380,057; May 31; v. 286; p. 956.
- Gover, Emily A., Epping, near Sydney, New South Wales, Australia. Stocking-suspender. No. 1,394,822; Oct. 25.
- Government of the United States, The. (See Barry, Edward H., assignor.)
- Government of the United States, The. (See Currier, James S., assignor.)
- Government of the United States. (See Flint, James A., assignor.)
- Government of the United States. (See Fullinwider, Simon P., assignor.)
- Government of the United States, The. (See Halsey, Arthur S., assignor.)
- Government of the United States. (See Macfarlane, S. B., and Barry, assignors.)
- Government of the United States. (See Smith, B. L., Barry, and Boettcher, assignors.)
- Government of the United States. (See Stone, Andrew J., assignor.)
- Government of the United States, represented by the Secretary of the Navy. (See Boesch, Harry L., assignor.)
- Government of the United States, represented by the Secretary of the Navy. (See Scheele, Walter T., assignor.)
- Gow, Alexander M., Duluth, Minn. Side-dump car. No. 1,387,485; Aug. 16; v. 289; p. 425.
- Gow, Alexander M., Duluth, Minn. Ore-washer. No. 1,392,413; Oct. 4.
- Gow, Alexander M., Duluth, Minn. Locking mechanism for dump-cars. No. 1,397,165; Nov. 15.
- Gowdy, W. Brooks, Portsmouth, and L. G. Freeman, Cincinnati, Ohio. Friction-drive for skiving-machines. No. 1,367,041; Feb. 1; v. 283; p. 31.
- Gowen, Robert F., assignor to De Forest Radio Telephone & Telegraph Company, New York, N. Y. Inductance-coil mounting. No. 1,365,170; Jan. 11; v. 282; p. 261.
- Gowen, Robert F., assignor to De Forest Radio Telephone & Telegraph Company, New York, N. Y. Coil-mounting. No. 1,398,372; Nov. 29.
- Gower, Adelbert L., Janesville, Wis. Heating system. No. 1,399,613; Dec. 6.
- Gower, Walter, Tampa, Fla. Clipping device. No. 1,386,470; Aug. 2; v. 289; p. 99.
- Gowing, Ernest T., assignor of one-half to O. S. Pickard, Evans Mills, N. Y. Horseshoe-calk. No. 1,374,848; Apr. 12; v. 285; p. 325.
- Goyette, William E., Philadelphia, Pa., assignor to J. E. Garey, Elmira Heights, N. Y. Yarn-cleaning device. No. 1,391,540; Sept. 20; v. 290; p. 554.
- Graber, Fred. (See Becker, George W., assignor.)
- Graber, Fred G., Canton, Ohio. Kitchen utensil. No. 1,392,491; Oct. 4.
- Graber, Harry F. (See Townley, Richard B., assignor.)
- Grabhorn, Frank H., Milwaukee, Wis. Moving-picture apparatus. No. 1,399,208; Dec. 6.
- Grabill, Frank B. (See Field, Ernest L., assignor.)
- Grable, Guy E., Moline, assignor to J. Dee, Rock Island, Ill. Valve-tappet. No. 1,366,788; Jan. 25; v. 282; p. 661.
- Grable, Myrtle, Nahcotta, Wash. Hair-crimper. No. 1,375,504; Apr. 19; v. 285; p. 513.
- Grabier Manufacturing Company, The. (See Honen, James T., assignor.)
- Grabier, Peter, Lakewood, Ohio. Garment-supporter. No. 1,368,335; Feb. 15; v. 283; p. 389.
- Gracianin, Ivan, Barton, Ohio. Musical instrument. No. 1,382,076; June 21; v. 287; p. 444.
- Grace, Bertram B., Upminster, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,400,050; Dec. 13.
- Grady, Alma E., Gardena, Calif. Curtain-rod hood. No. 1,382,973; June 28; v. 287; p. 668.



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- Grady, Frank M., Butte, Mont. Street-cleaning device. No. 1,375,505; Apr. 19; v. 285; p. 514.
- Grady, Nicholas J., and T. F. Liebau, Pittsburg, Pa. Toy vehicle. No. 1,365,482; Jan. 11; v. 282; p. 321.
- Grabber Vacuum Piano-Player Attachment Company. (See Guarnieri, Robert A., assignor.)
- Graef, George A., South Plymouth, N. Y. Silo-door. No. 1,368,137; Feb. 8; v. 283; p. 302.
- Graemiger, Benjamin, Zurich, Switzerland. Compressing vapor in multistage centrifugal compressors. No. 1,400,813; Dec. 20.
- Graesser, Carl H., Fairfield, and E. B. Crocker, Stratford, Conn., assignors to Manning, Maxwell, & Moore, Inc., New York, N. Y. Retaining device for gage-cases. No. 1,398,373; Nov. 29.
- Graf, Alexander, Berlin-Hermsdorf, Germany. Switch for electric circuits. No. 1,392,324; Oct. 4.
- Graf de la Rosée, Friedrich, Garmisch-Partenkirchen, Germany, assignor, by mesne assignments, to The Chemical Foundation Inc. Manufacturing Caoutchouc-like substances. No. 1,399,473; Dec. 6.
- Graf, Carl, Cologne-Rodenkirchen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing a surrogate for tannin. No. 1,376,805; May 3; v. 286; p. 81.
- Graf, Fred, Lambershim, assignor of one-half to G. E. Wallace, Los Angeles, Calif. Gravity trolley-rudder. No. 1,386,566; Aug. 2; v. 289; p. 117.
- Graf, Fredrik, Krokstätt, Sweden. Doffing apparatus for spinning and twisting machine. No. 1,384,449; July 12; v. 288; p. 296.
- Graf, Henry G., Toledo, Ohio, assignor to American Can Company, New York, N. Y. Shipping-container. No. 1,398,686; Nov. 29.
- Graf, Hubert M., Kansas City, Mo. Stepladder. No. 1,397,280; Nov. 15.
- Graf, Siegfried. (See Raddick, David J., assignor.)
- Graff, David L., New York, N. Y., assignor to National Carbon Company, Inc. Portable electric light. No. 1,373,611; Apr. 5; v. 285; p. 45.
- Graff, Edwin E., and C. M. Fisher, South Bend, Ind. Spring for chair-backs and the like. No. 1,394,005; Oct. 18.
- Graff, Frederick W., and J. V., Oppel, San Francisco, Calif. Making beverages. No. 1,376,870; May 3; v. 286; p. 94.
- Graff, Henry E. (See McCarthy, J. H., and Graff.)
- Graff, Louis J., Pittsburg, Pa. Cross furring-strip. No. 1,376,806; May 3; v. 286; p. 81.
- Graff, Walter W., East Cleveland, assignor of one-half to J. O. Schmitt, Cleveland, Ohio. Lamp. No. 1,395,490; Nov. 1.
- Graff, William D. (See Theberath, Joseph C., assignor.)
- Graffes, Frank, Easthampton, Mass. Resilient heel. No. 1,395,342; Nov. 1.
- Grafton, Charles O. (See Rhenstrom, Anthony, assignor.)
- Grafton, Eugene H., Los Angeles, and F. Crawford, Torrance, Calif. Antifriction-bearing for leaf-springs. No. 1,365,240; Jan. 11; v. 282; p. 274.
- Grah, William, Waterville, Ohio. Audible low-liquid-level alarm. No. 1,371,365; Mar. 15; v. 284; p. 415.
- Grah, William, Waterville, Ohio. Low-liquid-level alarm. No. 1,371,366; Mar. 15; v. 284; p. 415.
- Grah, William, Waterville, Ohio. Low-liquid alarm. No. 1,373,420; Apr. 5; v. 285; p. 8.
- Grah, William, Waterville, Ohio. Audible low-liquid-level alarm for tanks. No. 1,381,299; June 14; v. 287; p. 238.
- Graham, Andrew W., Buffalo, N. Y. Liquid-receptacle attachment. No. 1,366,789; Jan. 25; v. 282; p. 661.
- Graham, Arthur T., San Francisco, Calif. Dental impression-tray. No. 1,369,171; Feb. 22; v. 283; p. 591.
- Graham, Benjamin F., Chicago, Ill. Collapsible grain-door. No. 1,384,190; July 12; v. 288; p. 242.
- Graham, Charles W., Allendale, N. J., assignor to American Can Company. Machine for positioning and cutting fish. No. 1,381,989; June 21; v. 287; p. 428.
- Graham, Charles W., Allendale, N. J., assignor to American Can Company, New York, N. Y. Machine for and method of lining can ends. No. 1,392,492; Oct. 4.
- Graham, Charles W., Allendale, N. J., assignor to American Can Company, New York, N. Y. Semi-automatic gasket-lining machine. No. 1,392,493; Oct. 4.
- Graham, Charles W., Crestwood, assignor to American Can Company, New York, N. Y. Can. No. 1,382,501; June 21; v. 287; p. 524.
- Graham, Charles W., Crestwood, assignor to American Can Company, New York, N. Y. Can-end-lining machine. No. 1,389,752; Sept. 6; v. 290; p. 38.
- Graham, David M., Bordulac, N. D. Stack-former. No. 1,381,868; June 14; v. 287; p. 345.
- Graham, David M., Bordulac, N. D. Stack-former. No. 1,381,869; June 14; v. 287; p. 345.
- Graham, David M., Bordulac, N. D., assignor to Graham-Roach Harvester & Stacker Company, of North Dakota. Method of and apparatus for forming stacks of grain for curing. No. 1,376,757; May 3; v. 286; p. 71.
- Graham, David M., Bordulac, N. D., assignor to Graham-Roach Harvester and Stacker Company. Apparatus for forming and depositing stacks of grain and the like. No. 1,377,336; May 10; v. 286; p. 240.
- Graham, Edward A., Brockley, London, England. Gramophone and like machine. No. 1,401,069; Dec. 20.
- Graham, Edward M., Chicago, Ill. Pliers. No. 1,373,555; Apr. 5; v. 285; p. 34.
- Graham, Edwin G., Pallsades, Colo. Concrete-mixer. No. 1,367,374; Feb. 1; v. 283; p. 98.
- Graham, Frank A., Harbor Springs, Mich. Centerboard. No. 1,374,008; Apr. 5; v. 285; p. 123.
- Graham, Frank L., jr., Seattle, Wash. Lock for mail-bags. No. 1,398,638; Nov. 29.
- Graham, George F., Cleveland, Ohio. Pump. No. 1,380,896; June 7; v. 287; p. 110.
- Graham, James H. (See Weston, F. P., and Graham.)
- Graham, James H., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Wire spoke connection. (Reissue.) No. 15,109; May 24; v. 286; p. 796.
- Graham, James H., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Suction carpet-cleaner. No. 1,384,998; July 19; v. 288; p. 491.
- Graham, James H., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Carpet-sweeper. No. 1,384,999; July 19; v. 288; p. 492.
- Graham, James H., and E. C. Murdick, assignors, by mesne assignments, to The Torrington Company, Torrington, Conn. Carpet-sweeper. No. 1,384,997; July 19; v. 288; p. 491.
- Graham, James H., and M. S. Foley, assignors to The Torrington Company, Torrington, Conn. Die for making spoke-nipples. No. 1,395,181; Oct. 25.
- Graham, John G., Tomah, Wis. Power-driven tire-pump. No. 1,382,722; June 28; v. 287; p. 621.
- Graham, Joseph A., Alleman, Iowa. Lever-locking device. No. 1,375,289; Apr. 19; v. 285; p. 473.
- Graham, Joseph A., Alleman, Iowa. Draft attachment. No. 1,398,547; Nov. 29.
- Graham, Laurence W. S., and F. S. Lindo, Tempe, near Sydney, New South Wales, Australia. Journal-lubricator. No. 1,371,161; Mar. 8; v. 284; p. 312.
- Graham, Oliver B., Cleveland, Ohio, assignor to Auto-ordnance Corporation, New York, N. Y. Gun. No. 1,396,832; Nov. 15.
- Graham, Milford H. (See MacMinn, A. H., and Graham.)
- Graham-Roach Harvester & Stacker Company. (See Graham, David M., assignor.)
- Graham, Robert, Cupar, Scotland. Producing bread and other like foodstuffs. No. 1,387,387; Aug. 9; v. 289; p. 355.
- Graham, Robert C., assignor of one-half to D. S. Etheridge, Chattanooga, Tenn. Receptacle and separator for particles of gold and other precious metals. No. 1,374,075; Apr. 5; v. 285; p. 135.
- Graham, Robert M., Sidney, Ohio. Flutter-valve tester. No. 1,368,498; Feb. 15; v. 283; p. 421.
- Graham, Thomas. (See Alexander, R. H., and Graham.)
- Graham, Walter A., Salisbury, N. C. Suspension-clamp for cables. No. 1,373,421; Apr. 5; v. 285; p. 8.
- Graham, Wilford H. (See MacMinn, A. H., and Graham.)
- Graham, William B., Deaver, Wyo. Vegetable-topping machine. No. 1,380,647; June 7; v. 287; p. 61.
- Graham, William J. (See Crompton, L. W., and Graham.)
- Graham, Willie, New Orleans, La. Cableway. No. 1,365,982; Jan. 18; v. 282; p. 458.
- Grahl, Max C., assignor to Universelle Cigaretten-Maschinen-Industrie System Otto Bergsträsser Aktien-gesellschaft, Dresden-Löbtau, Germany. Cigarette-machine. No. 1,399,209; Dec. 6.
- Grahl, Max C., Dresden-Löbtau, Germany. Manufacturing cigarette-tubes with hollow mouthpieces. No. 1,399,551; Dec. 6.
- Gram Headwear Mfg. Company. (See Yanow, Jacob, assignor.)
- Grams, Louis A., Randolph, S. D. Tire-holder. No. 1,386,401; Aug. 2; v. 289; p. 86.
- Grams, Walter F., Venice, assignor to Metro-Pictures Corporation, Los Angeles, Calif. Cable-winding device. No. 1,367,811; Feb. 8; v. 283; p. 241.
- Gran, Georg, Revetal, near Tönsberg, Norway. Shifting mechanism. No. 1,367,694; Feb. 8; v. 283; p. 218.
- Granby, Colin, Chicago, Ill. Safety-valve. No. 1,277,199; May 10; v. 286; p. 212.
- Grand Rapids Refrigerator Company. (See Bardush, John F., assignor.)
- Grand Rapids Refrigerator Company. (See Whittier, Walter H., assignor.)
- Grand Rapids Show Case Company. (See Curtiss, Arthur F., assignor.)
- Grand Rapids Show Case Company. (See Reigersberg, Morris, assignor.)
- Grand Rapids Trust Company, executor. (See Gorham, Edwin T.)
- Grandich, Felix, New York, N. Y. Cigar and cigarette lighter. No. 1,386,616; Aug. 9; v. 289; p. 200.
- Grandjean, Adolphe, Paris, France. Portable loading apparatus. No. 1,393,214; Oct. 11.
- Graney, Michael J., Pittsburg, Pa. Furnace. No. 1,387,537; Aug. 16; v. 289; p. 436.
- Granger, Amédée, New Orleans, La. Foreign-body localizer. No. 1,370,640; Mar. 8; v. 284; p. 214.
- Granlund, Gustavus S. (See Potter, E. M., and Granlund.)
- Grannis, Arthur W., Waterloo, Iowa. Adjustable implement. No. 1,375,751; Apr. 26; v. 285; p. 592.
- Grannis, Herbert C., assignor to Briant Specialty Company, Indianapolis, Ind. Ball-dispensing device for game apparatus. No. 1,395,705; Nov. 1.



*Alphabetical list of patentees—Continued.*

- Grannis, Leon R., Long Beach, Calif. Illuminated license-plate. No. 1,395,491; Nov. 1.
- Grant, Albert C., assignor to Grant Wire Wheel Manufacturing Company, Chicago, Ill. Automobile-wheel. No. 1,370,434; Mar. 1; v. 284; p. 129.
- Grant, Albert E., New York, N. Y. Combined burner and gas-generator unit. No. 1,393,358; Oct. 11.
- Grant, Charles, San Francisco, Calif. Spacing-block. No. 1,385,823; July 26; v. 288; p. 736.
- Grant, Charles G., *et al.* (See Stephens, Samuel F., assignor.)
- Grant, Charles H., Dayton, Ohio. Toy airplane. No. 1,371,162; Mar. 8; v. 284; p. 312.
- Grant, Charles H., and C. B. Wertz, Dayton, Ohio. Toy-aeroplane-motor winder. No. 1,370,742; Mar. 8; v. 284; p. 233.
- Grant, Colln, Jackson, Mich. Detachable handle. No. 1,376,528; May 3; v. 286; p. 28.
- Grant, Colln, Jackson, Mich. Repair-handle. No. 1,376,529; May 3; v. 286; p. 28.
- Grant, Frank, Westfield, Mass. Holder for shaving-soap sticks. No. 1,374,157; Apr. 5; v. 285; p. 151.
- Grant, Frank, Westfield, Mass. Milk-bottle. No. 1,381,129; July 12; v. 288; p. 230.
- Grant, James A. (See Martel, Adelard F., assignor.)
- Grant, James A. G., Iola, Kans. Direction-indicator. No. 1,369,423; Feb. 22; v. 283; p. 640.
- Grant, John A. (See Clarke, William L., jr., assignor.)
- Grant, John A., Atlanta, Ga. Automobile-tire. No. 1,391,541; Sept. 20; v. 290; p. 554.
- Grant, John E. P., Swarthmore, Pa. Lubricating system. No. 1,370,641; Mar. 8; v. 284; p. 214.
- Grant, John J., *et al.* (See Brock, Joseph, assignor.)
- Grant, Lester E., Auburndale, Mass. Vehicle-lock. No. 1,391,105; Sept. 20; v. 290; p. 465.
- Grant, Ralph H., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Battery-indicating device. No. 1,366,533; Jan. 25; v. 282; p. 610.
- Grant, Roswell D., assignor to The Pyle-National Company, Chicago, Ill. Burnishing-machine. No. 1,368,794; Feb. 15; v. 283; p. 478.
- Grant, Sybil, Roehampton, London, and L. A. Crickmore, Watford, England. Apparatus for viewing cinematographic films. No. 1,372,017; Mar. 22; v. 284; p. 598.
- Grant, William C. A., Winnipeg, Manitoba, Canada. Power attachment for automobiles. No. 1,371,618; Mar. 15; v. 284; p. 465.
- Grant, William P., San Jose, Calif. Adjustable gas-plate. No. 1,372,419; Mar. 22; v. 284; p. 675.
- Grant Wire Wheel Manufacturing Company. (See Grant, Albert C., assignor.)
- Graham, Martin. (See White, A., and Granum.)
- Granville, Bernard, New York, N. Y. Drilling apparatus. No. 1,367,042; Feb. 1; v. 283; p. 32.
- Granz, Joseph, Duluth, Minn. Optical projection apparatus. No. 1,375,089; Apr. 19; v. 285; p. 434.
- Granz, Joseph, Duluth, Minn. Optical-projection lantern. No. 1,399,111; Dec. 6.
- Grapho-Metal Packing Company. (See Ostrander, James, assignor.)
- Graphoscope Company. (See Jenkins, Charles F., assignor.)
- Grass, Elmer S., Racine, Wis. Tool-rest or support. No. 1,369,424; Feb. 22; v. 283; p. 640.
- Grass, George L., assignor to Dodge Manufacturing Company of Canada, Limited, Toronto, Canada. Adjusting device for elevator-boot pulleys. No. 1,387,849; Aug. 16; v. 289; p. 499.
- Grasselli Chemical Company, The. (See Bowman, Frederick J., assignor.)
- Grasselli Chemical Company, The. (See Guhlman, Charles F., assignor.)
- Grasselli Chemical Company, The. (See Sakryd, C. H., and Rosencrans, assignors.)
- Grassi, Joseph G., Dayton, Ohio. Depositor for mashed potatoes and other plastic materials. No. 1,397,510; Nov. 22.
- Grasswick, Carl A., Minneapolis, assignor to Wood-Craft Company, St. Paul, Minn. Circulating-pump. No. 1,374,884; Apr. 12; v. 285; p. 332.
- Grasty, George I., *et al.* (See Brown, Leonard L., assignor.)
- Graton, Claude D., Newark, N. J. Negotiable paper. No. 1,378,673; May 17; v. 286; p. 548.
- Grauman, L. Fixture Company. (See Wompey, John J., assignor.)
- Gravatt, Charles M., Port Royal, Va. Station-indicator. No. 1,395,816; Nov. 1.
- Gravel, Abundus, assignor to The Willys-Overland Company, Toledo, Ohio. Seating arrangement for coupes. No. 1,390,356; Sept. 13; v. 290; p. 251.
- Gravell, James H., New York, N. Y. Paint. No. 1,367,597; Feb. 8; v. 283; p. 199.
- Gravell, James H., Elkins Park, Pa. Method of and composition for cleaning metals. No. 1,387,645; Aug. 16; v. 289; p. 458.
- Gravell, James H., Elkins Park, Pa. Method of and composition for cleaning metals. No. 1,398,507; Nov. 29.
- Gravell, James H., Elkins Park, Pa., assignor to Thomson Electric Welding Company, Boston, Mass. Cooling means for electric metal-working transformers. No. 1,382,905; June 28; v. 287; p. 655.
- Gravell, James H., Elkins Park, Pa., assignor to Thomson Electric Welding Company, Boston, Mass. Self-heating rivet and riveting with same. No. 1,382,906; June 28; v. 287; p. 655.
- Graves, Albert H., deceased, Evanston, Ill., E. L. Graves, executrix. Concealed suspenders. No. 1,398,962; Dec. 6.
- Graves, Eldred G., Normal, and O. K. Wells, Bloomington, Ill. Combined crusher and stoker. No. 1,369,237; Feb. 22; v. 283; p. 604.
- Graves, Emma L., executrix. (See Graves, Albert H., assignor.)
- Graves, Eugene C., Kankakee, Ill. Weed-killing implement. No. 1,395,637; Nov. 1.
- Graves, Fred D., Oswego, N. Y. Hose-supporter. No. 1,374,009; Apr. 5; v. 285; p. 123.
- Graves, John, assignor to French Battery & Carbon Co., Madison, Wis. Pocket hand-lamp. No. 1,375,586; Apr. 19; v. 285; p. 629.
- Graves, John, assignor to French Battery & Carbon Co., Madison, Wis. Pocket hand-lamp. No. 1,375,587; Apr. 19; v. 285; p. 529.
- Graves, John, assignor to French Battery & Carbon Co., Madison, Wis. Battery-core-making machine. No. 1,382,639; June 28; v. 287; p. 604.
- Graves, Spencer C., St. Louis, Mo. Waterproof composition. No. 1,382,077; June 21; v. 287; p. 444.
- Gravity Door Hanger Company, The. (See Larson, Andrew F., assignor.)
- Gravity Grain Grader Company. (See Stone, John M. and A. L., assignors.)
- Gray, Albert J. (See Hebern, W., and Gray.)
- Gray, Albert J., and W. Hebern, Oakland, Calif., assignor to Security Auto Lock Co. Automobile-lock. No. 1,383,617; July 5; v. 288; p. 74.
- Gray, Albert L., Fargo, N. D. Automobile steering-gear. No. 1,367,695; Feb. 8; v. 283; p. 218.
- Gray, Berte C., Sedgwick, Kans. Spring-motor vehicle. No. 1,381,870; June 14; v. 287; p. 346.
- Gray, Budd D., Greenwich, Conn., assignor to American Thermophone Company, Boston, Mass. Thermophone. No. 1,398,687; Nov. 29.
- Gray, Charles B., Knoxville, Tenn. Machine for cutting sheet-form material. No. 1,366,790; Jan. 25; v. 282; p. 661.
- Gray, Charles B., Knoxville, Tenn. Machine for cutting sheet-form material. No. 1,381,088; June 7; v. 287; p. 147.
- Gray, Charles B., Philadelphia, Pa. Machine for cutting sheet-form material. No. 1,383,618; July 5; v. 288; p. 75.
- Gray, Charles B., Philadelphia, Pa. Mechanism for transmitting motion. No. 1,383,619; July 5; v. 288; p. 75.
- Gray, Charles B., Philadelphia, Pa. Machine for cutting sheet-form material. No. 1,384,696; July 12; v. 288; p. 349.
- Gray, Christian H., London, England. Purification of india-rubber, gutta-percha, and the like. No. 1,386,055; Aug. 2; v. 289; p. 19.
- Gray, Clarence F. A., Montreal, Quebec, Canada. Pneumatic tire. No. 1,396,742; Nov. 15.
- Gray, Daniel T., Louisville, Ky. Removable valve-seat. No. 1,376,427; May 3; v. 286; p. 10.
- Gray, David E., assignor to Corning Glass Works, Corning, N. Y. Apparatus for heat treatment of articles. No. 1,372,420; Mar. 22; v. 284; p. 675.
- Gray & Davis, Inc. (See Moses, William B., assignor.)
- Gray & Davis Inc. (See Wackwitz, Ernest F., assignor.)
- Gray, Dexter B., assignor to Bowen Car Initial & Number Record Co., Kingsville, Tex. Record-printing device. No. 1,372,501; Mar. 22; v. 284; p. 690.
- Gray, Edward E., Plano, Ill., assignor, by mesne assignments, to Automatic Gear Shift Company. Transmission mechanism. No. 1,371,238; Mar. 15; v. 284; p. 390.
- Gray, Edward E., Plano, Ill., assignor, by mesne assignments, to Ivers-Lee Company, Newark, N. J. Machine for forming packages. No. 1,386,105; Aug. 2; v. 289; p. 29.
- Gray, Edwin, Maplewood, Mo. Weather-shield for spring-shade awnings. No. 1,390,527; Sept. 13; v. 290; p. 286.
- Gray, Edwin D., Richmond, assignor to Standard Oil Company of California, San Francisco, Calif. Centrifugal separator. No. 1,375,506; Apr. 19; v. 285; p. 514.
- Gray, Edwin M., Everett, Wash. Auxiliary log-supporting means for clapboard-sawing machines. No. 1,381,183; June 14; v. 287; p. 217.
- Gray, Edwin T., and A. T. Hoevet, New York, N. Y.; said Hoevet assignor to said Gray. Combined signal-box and searchlight for vehicles. No. 1,364,748; Jan. 4; v. 282; p. 135.
- Gray, Eugene and J. C. Bickley, Stoughton, Wis.; said Bickley assignor to said Gray. Milk and cream testing apparatus. No. 1,396,743; Nov. 15.
- Gray, Forest L., Kenmore, Ohio. Hair-clipper. No. 1,395,104; Oct. 25.
- Gray, Francis C., College Corner, Ohio. Antiskid-chain. No. 1,393,523; Oct. 11.
- Gray, Frank, Philadelphia, Pa. Damper-regulator. No. 1,398,895; Nov. 29.
- Gray, G. A., Company, The. (See Cardullo, Forrest E., assignor.)
- Gray, G. A., Company, The. (See Hunt, Howard W., assignor.)



## Alphabetical list of patentees—Continued.

- Gray, Gardner B., deceased, and A. G. Williamson; H. F. Gray, executrix; assignors, by mesne assignments, to Pittsburgh Train Control Company, Pittsburgh, Pa. Power-actuated system of switch control. No. 1,377,200; May 10; v. 286; p. 212.
- Gray, Harold C. J. (See Whitcomb, J., and Gray.)
- Gray, George B. M., assignor to A. M. Johnson, Oakland, Calif. Automobile-gear-shift lock. No. 1,367,873; Feb. 8; v. 283; p. 253.
- Gray, George C. G., Philadelphia, Pa. Air control for oil-burning furnaces. No. 1,373,501; Apr. 5; v. 285; p. 24.
- Gray, George R. (See Aylor, Howard F., assignor.)
- Gray, Harry H., Kansas City, Mo. Direction-indicator for motor-cars. No. 1,379,863; May 31; v. 286; p. 919.
- Gray, Hazel E., Little Silver, N. J. Facial-massage device. No. 1,399,340; Dec. 6.
- Gray, Helen F., executrix. (See Gray, G. B., and Williamson.)
- Gray, Howard A., Godfrey, Ill. Apparatus for raising sunken vessels. No. 1,367,250; Feb. 1; v. 283; p. 73.
- Gray, Ishmael H., assignor to The Disc-O-Tag Company, Indianapolis, Ind. Price-tag holder. No. 1,372,225; Mar. 22; v. 284; p. 638.
- Gray, James A., assignor to American Can Company, San Francisco, Calif. Can feeding and re-forming and end-applying machine. No. 1,370,807; Mar. 8; v. 284; p. 246.
- Gray, James A., assignor to American Can Company, San Francisco, Calif. Multiple-spindle double-seamer. No. 1,373,001; Mar. 29; v. 284; p. 831.
- Gray, James E., Newton, Iowa. Controlling device for automobile-headlights. No. 1,398,262; Nov. 29.
- Gray, James H., New York, N. Y. Operating mechanism for electric furnaces. No. 1,376,758; May 3; v. 286; p. 71.
- Gray, James H., New York, N. Y. Ladle. No. 1,386,702; Aug. 9; v. 289; p. 218.
- Gray, John, assignor to R. & W. Hawthorn, Leslie & Company, Limited, Newcastle-upon-Tyne, England. Manhole-fitting. No. 1,382,187; June 21; v. 287; p. 464.
- Gray, John T., Great Falls, Mont. Receiver-hook switch for portable telephones. No. 1,379,557; May 24; v. 286; p. 788.
- Gray, John T., Great Falls, Mont. Receiver-hook switch. No. 1,388,703; Aug. 23; v. 289; p. 723.
- Gray, Leonard G., assignor to Walrus Manufacturing Company, Decatur, Ill. Drain for ice-cream cabinets. No. 1,382,352; June 21; v. 287; p. 495.
- Gray, Leonard G., assignor to Walrus Manufacturing Company, Decatur, Ill. Refrigerator display-case. No. 1,387,486; Aug. 16; v. 289; p. 425.
- Gray, Otto, *et al.* (See Augustin, Edwin J., assignor.)
- Gray, Raymond K., assignor to The Grayne Corporation, Chicago, Ill. Locking device. No. 1,386,778; Aug. 9; v. 289; p. 233.
- Gray, Robert D., New York, N. Y. Apparatus for recording motion and sound. No. 1,384,612; July 12; v. 288; p. 331.
- Gray, Robert E. (See Rogers, G. L., and Gray.)
- Gray, Rollin L., Eau Claire, Wis. Hairpin. No. 1,382,353; June 21; v. 287; p. 496.
- Gray, Roy E., Philadelphia, Pa. Collar. No. 1,396,833; Nov. 15.
- Gray, Samuel R., Germantown, Pa. Portable camera-support. No. 1,392,144; Sept. 27; v. 290; p. 749.
- Gray Telephone Pay Station Company, The. (See Long, George A., assignor.)
- Gray, Thomas. (See Stephens, H. H., and Gray.)
- Gray, Thomas W. (See Macfarren, W. W., and Gray.)
- Gray, Virgil O., Cave City, Ark. Clamp. No. 1,368,138; Feb. 8; v. 283; p. 303.
- Gray, Walter, Washington, D. C. Broom. No. 1,393,215; Oct. 11.
- Gray, Walter A. (See Elliott, Horace W., assignor.)
- Gray, William, Rochester, N. Y. Attachment for eaves troughs. No. 1,373,883; Apr. 5; v. 285; p. 98.
- Gray, William E., assignor to The Elyria Enameled Products Company, Elyria, Ohio. Mounting means. No. 1,372,070; Mar. 22; v. 284; p. 608.
- Graybeal, Winfield A., Lansing, N. C. Barn-door latch. No. 1,364,749; Jan. 4; v. 282; p. 135.
- Grayne Corporation, The. (See Gray, Raymond K., assignor.)
- Grayson, J. H., Manufacturing Company, The. (See Grayson, John H., assignor.)
- Grayson, John H., assignor to The J. H. Grayson Manufacturing Company, Athens, Ohio. Gas-heater. No. 1,371,477; Mar. 15; v. 284; p. 438.
- Grazer, Charles J., assignor of one-half to T. Treganowan, Pittsburgh, Pa. Combination automobile-creeper. No. 1,394,493; Oct. 18.
- Graziano, Joseph, son of Peter. (See Graziano, Joseph, son of Rosorio.)
- Graziano, Joseph, son of Rosorio, and J. Graziano, son of Peter, Newburgh, N. Y. Motor. No. 1,380,795; June 7; v. 287; p. 90.
- Greason, Frederick A. (See Watt, D. C., and Greason.)
- Greason, Norman W., St. Marys, Ontario, Canada. Letter-holder. No. 1,367,375; Feb. 1; v. 283; p. 98.
- Great Northern Paper Company. (See Pope, Charles E., assignor.)
- Great Western Commercial Body Company. (See Berg, J. P., and Gleason, assignors.)
- Great Western Commercial Body Company. (See Stone, William L., assignor.)
- Greaves, Ablio M. De S., Cambridge, Mass. Temperature-alarm system for radiators of motor-vehicles. No. 1,386,492; Aug. 2; v. 289; p. 102.
- Greaves, Henry A., and H. Etchells, Sheffield, England. Electric system for electric furnaces. No. 1,370,016; Mar. 1; v. 284; p. 50.
- Greaves, William A., Cincinnati, Ohio. Tailstock. No. 1,380,139; May 31; v. 286; p. 972.
- Greibenstein, Charles. (See Farkas, W., and Grebenstein.)
- Greeley, James A., *et al.* (See Sewell, Arthur L., assignor.)
- Greeley, William H., Newton, assignor to Ginn & Company, Boston, Mass. Making double-page multicolor maps. No. 1,383,621; July 5; v. 288; p. 75.
- Greeley, William H., Newton, assignor to Ginn and Company, Boston, Mass. Map-plate. No. 1,383,622; July 5; v. 288; p. 76.
- Green, Andrew R., and Harry L. Roscoe, Joplin, Mo. Composition for treating concrete surfaces. No. 1,371,555; Mar. 15; v. 284; p. 454.
- Green, Andrew W., Toronto, Ontario, Canada. Floor-finishing apparatus. No. 1,401,400; Dec. 27.
- Green, Arch B., assignor of one-half to U. G. Walker, San Francisco, Calif. Dispensing-faucet. No. 1,383,100; June 28; v. 287; p. 692.
- Green, Arthur, Coventry, England. Ball-and-socket joint for linkwork. No. 1,375,905; Apr. 26; v. 285; p. 622.
- Green, Charles, Company. (See Hirschhorn, Morris, assignor.)
- Green, Charles, assignor to One-piece Bifocal Lens Company, Indianapolis, Ind. Means for polishing multifocal lenses. No. 1,372,747; Mar. 29; v. 284; p. 779.
- Green, Charles A., St. Louis, Mo., assignor of one-half to J. E. Swanson, Boston, Mass. Work supporting and guiding device. No. 1,385,538; July 26; v. 288; p. 677.
- Green, Charles F., assignor to The Willys-Overland Co., Toledo, Ohio. Windshield-cleaner. No. 1,397,511; Nov. 22.
- Green, Charles F., and H. W. Lindsey, Jr., assignors to Industrial Research Corporation, Toledo, Ohio. Fuel-tank. No. 1,364,841; Jan. 4; v. 282; p. 153.
- Green, Charles F., Defiance, and H. W. Lindsey, Jr., assignors to Industrial Research Corporation, Toledo, Ohio. Fuel-reserve-supply system. No. 1,379,812; May 31; v. 286; p. 910.
- Green, Charles K., Gadsden, Ala. Water-cooler. No. 1,372,135; Mar. 22; v. 284; p. 620.
- Green, Charles K., Indianapolis, Ind. Pneumatic ball-protector. No. 1,379,403; May 24; v. 286; p. 759.
- Green, Chester, Cornwall Landing, N. Y. Safety-crank. No. 1,383,101; June 28; v. 287; p. 692.
- Green, Clifford H., assignor to National Piano Manufacturing Company, Grand Rapids, Mich. Speed-equalizing device for phonographs, &c. No. 1,387,704; Aug. 16; v. 289; p. 469.
- Green, David D., Milwaukee, Wis. Cover for washing-machine tubs. No. 1,379,014; May 24; v. 286; p. 685.
- Green, Earl C., Spokane, Wash. Hand-punch. No. 1,391,890; Sept. 27; v. 290; p. 697.
- Green, Edward A., Chicago, Ill. Nut-lock. No. 1,400,154; Dec. 13.
- Green, Ellyson, Winterset, Iowa. Chain tightening and releasing device. No. 1,398,548; Nov. 29.
- Green Engineering Company. (See Marsh, Thomas A., assignor.)
- Green Engineering Company. (See Poppenhusen, H. A., and Strong, assignors.)
- Green Engineering Company. (See Poppenhusen, Herman A., assignor.)
- Green Engineering Company. (See Strong, Arthur P., assignor.)
- Green, Frederick N., Willimantic, Conn. Sound-box. No. 1,372,018; Mar. 22; v. 284; p. 598.
- Green, G. Marvin, Kissimmee, Fla. Dish-washer. No. 1,394,169; Oct. 18.
- Green, Harry E., Hampton, New Brunswick, Canada. Figure wheeled toy. No. 1,374,296; Apr. 12; v. 285; p. 218.
- Green, Herbert, San Antonio, Tex. Air-brake and starter for automobiles. No. 1,399,860; Dec. 13.
- Green, J. R. (See Fritz, John H., assignor.)
- Green, James A., Bayard, Va. Concrete sepulcher. No. 1,373,326; Mar. 29; v. 284; p. 895.
- Green, John C., Hackettstown, N. J. Canning-machine. No. 1,387,977; Aug. 16; v. 289; p. 523.
- Green, John K., New York, N. Y. Brick-anchored bolt. No. 1,386,402; Aug. 2; v. 289; p. 86.
- Green, John R., Glard, Tex. Adjustable luggage-carrier. No. 1,373,502; Apr. 5; v. 285; p. 24.
- Green, Lee B., assignor to The Federal Machine Products Company, Cleveland, Ohio. Hollow building-tile. No. 1,365,825; Jan. 18; v. 282; p. 427.
- Green, Lee B., assignor to The Federal Machine Products Company, Cleveland, Ohio. Power-transmitting mechanism. No. 1,373,556; Apr. 5; v. 285; p. 35.
- Green, Leslie P., Chicago, Ill. Scraper. No. 1,399,382; Dec. 6.
- Green, Pleas W., Egypt, Miss. Harrow. No. 1,401,332; Dec. 27.



*Alphabetical list of patentees—Continued.*

- Green, Richard D., Trenton, N. J., assignor to John A. Roebbling's Sons Company. Wire rope. No. 1,382,723; June 28; v. 287; p. 621.
- Green, Robert C., Winchester, England. Hydraulic ram for raising water. No. 1,395,343; Nov. 1.
- Green, Russell T. (See Dow, Charles H., assignor.)
- Green, Samuel G. (See Butler, J. S., and Green, assignor.)
- Green, Samuel G., U. S. Army. Shoulder-rest for guns. No. 1,381,631; June 14; v. 287; p. 299.
- Green, Samuel G., U. S. Army. Shoulder-rest for guns. No. 1,384,386; July 12; v. 288; p. 283.
- Green, Samuel G., U. S. Army. Safety and guide attachment for machine-gun magazines. No. 1,394,494; Oct. 18.
- Green, Samuel G., United States Army. Cartridge-holder. No. 1,401,152; Dec. 27.
- Green, Samuel H., Lelant, and J. D. Opie, Hayle, England. Manufacture of malt extract. No. 1,391,159; Sept. 20; v. 290; p. 475.
- Green, Samuel M., Cleveland, Ohio. Receipt and receipt-book and holder. No. 1,364,499; Jan. 4; v. 282; p. 88.
- Green, Walter R., Chicago, Ill. Tire carrier. (Reissue.) No. 15,027; Jan. 18; v. 282; p. 528.
- Green, Walter R., Chicago, Ill. Bicycle luggage-carrier. No. 1,375,752; Apr. 26; v. 285; p. 592.
- Green, Walter R., Chicago, Ill. Tire-carrier. No. 1,375,753; Apr. 26; v. 285; p. 593.
- Green, Warren T., St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky. Toy vehicle. No. 1,389,502; Aug. 30; v. 289; p. 937.
- Green, William. (See Lewis, W. K., and Green.)
- Green, William, Portland, Oreg. Serving-machine. No. 1,382,502; June 21; v. 287; p. 525.
- Green, William F., and L. C. Gates, Modesto, Calif.; said Gates assignor to said Green. Radiator water-gage. No. 1,373,129; Mar. 29; v. 284; p. 855.
- Green, William T., Summit, N. J. Dentifrice. No. 1,386,252; Aug. 2; v. 289; p. 58.
- Greenawalt, John E., New York, N. Y. Grate for sintering-pans. No. 1,388,334; Aug. 23; v. 289; p. 652.
- Greenawalt, John E., New York, N. Y. Grate for sintering-pans. No. 1,388,335; Aug. 23; v. 289; p. 652.
- Greenawalt, William E., Denver, Colo. Electrolytic apparatus. No. 1,365,032; Jan. 11; v. 282; p. 235.
- Greenawalt, William E., Denver, Colo. Electrolytic apparatus. No. 1,365,033; Jan. 11; v. 282; p. 235.
- Greenawalt, William E., Denver, Colo. Electrolytic apparatus. No. 1,365,034; Jan. 11; v. 282; p. 235.
- Greenawalt, William E., Denver, Colo. Electrolytic process. No. 1,373,557; Apr. 5; v. 285; p. 35.
- Greenawalt, William E., Denver, Colo. Apparatus for treating liquids with gases. No. 1,374,445; Apr. 12; v. 285; p. 247.
- Greenawalt, William E., Denver, Colo. Apparatus for treating liquids with gases. No. 1,374,446; Apr. 12; v. 285; p. 248.
- Greenawalt, William E., Denver, Colo. Flotation apparatus. No. 1,374,447; Apr. 12; v. 285; p. 248.
- Greenawalt, William E., Denver, Colo. Flotation apparatus. No. 1,374,499; Apr. 12; v. 285; p. 258.
- Greenawalt, William E., Denver, Colo. Apparatus for treating liquids with gases. No. 1,374,500; Apr. 12; v. 285; p. 258.
- Greenawalt, William E., Denver, Colo. Electrolytic diaphragm. No. 1,387,705; Aug. 16; v. 289; p. 470.
- Greenbaum, Charles. (See Cook, A., and Greenbaum.)
- Greenbaum, George B., *et al.* (See Lamb, Homer M., assignor.)
- Greenbaum, Israel F. (See Marinsky, Louis, assignor.)
- Greenberg, Fred G. (See Scheurer, R. C., and Greenberg.)
- Greenberg, Harry S., Danville, Va. Dining-service apparatus. No. 1,382,354; June 21; v. 287; p. 496.
- Greenberg, Harry S., Danville, Va. Dining-service apparatus. No. 1,384,191; July 12; v. 288; p. 242.
- Greenberg, Israel, Baltimore, Md. Roofing-tile. No. 1,391,891; Sept. 27; v. 290; p. 697.
- Greenberg, Joseph, Philadelphia, Pa. Dry coffee compound. No. 1,381,821; June 14; v. 287; p. 336.
- Greenberg, Joseph, Philadelphia, Pa. Prepared dry coffee-substitute compound. No. 1,381,822; June 14; v. 287; p. 336.
- Greenberg, Robert W., New York, N. Y. Shears. No. 1,368,431; Feb. 15; v. 283; p. 408.
- Greenburg, George G., New York, N. Y. Name-plate attachment. No. 1,400,155; Dec. 13.
- Greenburg, Joseph, Boston, Mass. Window. No. 1,385,539; July 26; v. 288; p. 678.
- Greene Aeronautical Company, The. (See Greene, Otto W., assignor.)
- Greene, Arthur S., North Milwaukee, Wis. Concrete-mold. No. 1,374,199; Apr. 12; v. 285; p. 200.
- Greene, Charles A., New York, N. Y. Sanitary case. No. 1,374,849; Apr. 12; v. 285; p. 325.
- Greene, Frederick B., New Haven, Conn. Fishing device. No. 1,376,934; May 3; v. 286; p. 106.
- Greene, Frederick J., Racine, Wis. Automatic riveting-machine. No. 1,392,494; Oct. 4.
- Greene, Glenn G., assignor to G. G. Metal Stamping Company, Warren, Pa. Caster for angle-bar furniture. No. 1,396,681; Nov. 8.
- Greene, John A., Long Beach, Calif. Combined grates, radiator, and ventilator. No. 1,365,912; Jan. 18; v. 282; p. 445.
- Greene, John S., Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Photographic developing apparatus. No. 1,381,871; June 14; v. 287; p. 346.
- Greene, John S., Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Photographic camera. No. 1,386,703; Aug. 9; v. 289; p. 218.
- Greene, Morgan A., Rupert, Idaho. Detachable mud-shoes for tractors. No. 1,382,078; June 21; v. 287; p. 444.
- Greene, Oscar V., Cleveland, Ohio. Headlight. No. 1,364,107; Jan. 4; v. 282; p. 11.
- Greene, Otto W., assignor to The Greene Aeronautical Company, Elyria, Ohio. Clutch mechanism. No. 1,392,936; Oct. 11.
- Greene, Richard A., Brooklyn, N. Y., assignors to Jabez Burns & Sons. Nut-mill. No. 1,394,082; Oct. 18.
- Greene, Robert, London, Ontario, Canada. Roadway. No. 1,379,813; May 31; v. 286; p. 910.
- Greene, Thomas J., and P. W. Burke, Bremerton, Wash. Pneumatic-hammer-oiling device. No. 1,388,459; Aug. 23; v. 289; p. 677.
- Greene, Willard C., East Orange, N. J. Astigmatic lens. No. 1,367,960; Feb. 8; v. 283; p. 269.
- Greener, Harry, Birmingham, England. Cartridge for small-arms, machine-guns, and the like. No. 1,376,530; May 3; v. 286; p. 28.
- Greener, Herman M., Chicago, Ill. Culinary implement. No. 1,386,704; Aug. 9; v. 289; p. 218.
- Greener, Herman M., Chicago, Ill. Culinary implement. No. 1,397,512; Nov. 22.
- Greenwald, Eugene L. (See Anders, Charles F. P., assignor.)
- Greenwald, Eugene L., Washington, D. C. Apparatus for applying closures. No. 1,398,963; Dec. 6.
- Greenfield, Edwin T., Kiamasha, and J. G. V. Lang, assignors to Greenfield Paper Bottle Company, New York, N. Y. Apparatus for contracting rings. No. 1,384,752; July 19; v. 288; p. 440.
- Greenfield Paper Bottle Company. (See Greenfield, E. T., and Lang, assignors.)
- Greenick, Arthur A., Buffalo, N. Y. Roaster. No. 1,394,412; Oct. 18.
- Greening, Horace, Dorchester, England. Collapsible box. No. 1,377,678; May 10; v. 286; p. 304.
- Greenleaf, George E., Plainfield, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Tool-lifting mechanism for planers. No. 1,372,286; Mar. 22; v. 284; p. 650.
- Greenleaf, Robert P. (See Billings, F., and Greenleaf.)
- Greenleaf, William H., assignor to The Connecticut Electric Clock Company, Hartford, Conn. Time-controlled mechanism. No. 1,388,858; Aug. 30; v. 289; p. 808.
- Greenlee Bros. & Co. (See Hawkinson, Adolph H., assignor.)
- Greenlee Bros. & Co. (See Mansfield, Judson H., assignor.)
- Greenlee, James A., Chicago, Ill. Reinforced paper. No. 1,365,483; Jan. 11; v. 282; p. 321.
- Greenlee, William F., Atchison, Kans. Display device. No. 1,367,775; Feb. 8; v. 283; p. 234.
- Greenman, Morris. (See Sprinkle, L. H., and Greenman.)
- Greenough, Gordon B., deceased, by N. B. Greenough, administratrix, Malden, Mass., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Fabric backing for composition soles. No. 1,400,428; Dec. 13.
- Greenough, Henry B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail-transferring mechanism. No. 1,377,337; May 10; v. 286; p. 240.
- Greenough, Henry B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,381,184; June 14; v. 287; p. 217.
- Greenough, Nellie B., administratrix. (See Greenough, Gordon B.)
- Greenpoint Metallic Bed Company, *et al.* (See Basile, Joseph, assignor.)
- Greenpoint Metallic Bed Company. (See Frank, Louis, assignor.)
- Greenstreet, Milfred L., assignor to Blocker Toy Manufacturing Company, Maplewood, Mo. Toy building-block. No. 1,371,619; Mar. 15; v. 284; p. 465.
- Greenstreet, Milfred L., assignor, by mesne assignments, to Blocker Toy Manufacturing Company, Maplewood, Mo. Coin-holder. No. 1,378,227; May 17; v. 286; p. 462.
- Greenstreet, Oliver P., Quappaw, Okla. Washing device. No. 1,364,434; Jan. 4; v. 282; p. 75.
- Greenwald, Isidor, New York, N. Y. Escapement for time-pieces. No. 1,398,776; Nov. 29.
- Greenwald, Isidore, Pittsburgh, Pa. Micrometer. No. 1,365,484; Jan. 11; v. 282; p. 321.
- Greenwood, Albert, Knoxville, Tenn. Illuminated display apparatus. No. 1,384,753; July 19; v. 288; p. 440.
- Greenwood, Alexander S., Chicago, Ill. Timed or intermittent operating device. No. 1,376,531; May 3; v. 286; p. 29.
- Greenwood, Anna G., Denver, Colo. Handy book and tray stand. No. 1,396,700; Nov. 8.
- Greenwood, Edward, Phillips, Me. Toothpick-machine. No. 1,376,616; May 3; v. 286; p. 45.



## Alphabetical list of patentees—Continued.

- Greenwood, Maurice, Revere, Mass. Spring-bed. No. 1,387,388; Aug. 9; v. 289; p. 355.
- Greenwood, Oliver P., Billerica, assignor to Farrington Manufacturing Company, Boston, Mass. Machine and process for adixing covering material to forms. No. 1,393,772; Oct. 18.
- Greer, Archie P. (See Leonard, D. C., and Greer.)
- Greer, Benjamin J., Poynor, Tex. Wire-stretcher. No. 1,389,045; Aug. 30; v. 289; p. 846.
- Greer, Clarence N. (See Gimpferling, John E., assignor.)
- Greer, James, Hoboken, N. J. Device for heating switches and the like. No. 1,388,997; Aug. 30; v. 289; p. 837.
- Greer, John A., Chicago, Ill. Changeable exhibitor. No. 1,373,384; Mar. 29; v. 284; p. 906.
- Greer, John A., Chicago, Ill. Combined advertising device and street-indicator. No. 1,382,079; June 21; v. 287; p. 444.
- Greer, John C., Houston, Tex. Boat. No. 1,370,959; Mar. 8; v. 284; p. 274.
- Greer, Robert C. (See Kibbe, Milo W., assignor.)
- Greer, Robert L., San Diego, Calif. Auxiliary windshield. No. 1,382,284; June 21; v. 287; p. 483.
- Greer, William E., Syracuse, N. Y. Tire-mold. No. 1,394,547; Oct. 25.
- Greeson, Merton H., Tampa, Fla. Ball-cock. No. 1,384,450; July 12; v. 288; p. 296.
- Gregg Company, The. (See Gregg, Louis D., assignor.)
- Gregg, Louis D., assignor to The Gregg Company, Limited, Hackensack, N. J. Journal-bearing. No. 1,392,636; Oct. 4.
- Gregg, Louis D., assignor to The Gregg Company, Limited, Hackensack, N. J. Car-coupling. No. 1,400,051; Dec. 13.
- Gregg, Walter M. (See Eastman, O. D., and Gregg.)
- Gregg, William H., trustee. (See Hachmann, Frederick, assignor.)
- Gregory, Alton N., Seattle, Wash. Twine-cutter. No. 1,379,864; May 31; v. 286; p. 919.
- Gregory, Arnold W. (See Rogers, F., and Gregory.)
- Gregory, Benjamin F., and W. H. Craun, Kansas City, Mo. Front drive and steering wheel for automobiles. No. 1,380,796; June 7; v. 287; p. 90.
- Gregory, Carl W., Petaluma, Calif. Chain. No. 1,396,701; Nov. 8.
- Gregory, G. P., and H. MacKellvie, assignors to Boston Auto Gage Company, Boston, Mass. Gage. No. 1,389,246; Aug. 30; v. 289; p. 886.
- Gregory, George T., New Kensington, and H. W. Burket, Arnold, Pa. Automatic coupling for mine-cars. No. 1,392,145; Sept. 27; v. 290; p. 749.
- Gregory, John M. M., Durham, N. C. Receptacle-closure. No. 1,365,398; Jan. 11; v. 282; p. 304.
- Gregory, Richard W., assignor to Electrical Improvements Limited, Newcastle-on-Tyne, England. Oil-break electric switch. No. 1,366,791; Jan. 25; v. 282; p. 661.
- Gregory, Theodore G., Providence, R. I. Hair-bobbing device. No. 1,401,070; Dec. 20.
- Gregory, William F., San Francisco, Calif., assignor of eighty-five per cent. to C. A. Levy, Newark, N. J., five per cent. to J. Boegershausen, and ten per cent. to Grace Mosher, San Francisco, Calif. Marking-line. No. 1,373,884; Apr. 5; v. 278; p. 98.
- Gregory, William S., assignor of one-third to D. D. Burkhardt, Cincinnati, Ohio. Automatic life and limb saving device for street-cars, automobiles, and other vehicles. No. 1,376,200; Apr. 26; v. 285; p. 678.
- Gregon, Herbert, Weehawken, N. J. Tobacco-pipe. No. 1,395,817; Nov. 1.
- Gregson, Shirley D. (See Thurman, George R., assignor.)
- Greig, Carlisle N., Chicago, Ill. Advertisement device. No. 1,374,501; Apr. 12; v. 285; p. 258.
- Greim, Albert P., Toms River, N. J. Trap. No. 1,393,438; Oct. 11.
- Greiner, Anton F., Cleveland, assignor to The Cleveland Tractor Company, Euclid, Ohio. Wheel and bearing therefor. No. 1,382,355; June 21; v. 287; p. 496.
- Greiner, Anton F., Cleveland, assignor to The Cleveland Tractor Company, Euclid, Ohio. Steering-gear attachment. No. 1,391,053; Sept. 20; v. 290; p. 455.
- Greiner, Ernst W., New Castle, Pa. Drill-hole shooting-plug. No. 1,385,943; July 26; v. 288; p. 759.
- Greist, Hubert M., and G. L. Hinman, New Haven, Conn., assignor to The Greist Manufacturing Company. Sewing-machine-attachment box. No. 1,365,682; Jan. 18; v. 282; p. 399.
- Greist Manufacturing Company, The. (See Greist, H. M., and Hinman, assignors.)
- Greist Manufacturing Company, The. (See Russell, Herbert H., assignor.)
- Greiter, Ed., & Cie. (See Schmiedel, T., and Klencke, assignor.)
- Greive, Edmund J., Los Angeles, Calif. Surface-decorating. No. 1,388,426; Aug. 23; v. 289; p. 670.
- Greimels, Felix, Mannheim, Germany, assignor to Techno-Service Corporation, New York, N. Y. Balanced closing device for water-conduits. No. 1,392,637; Oct. 4.
- Greimels, Felix, Mannheim, Germany, assignor to Techno-Service Corporation, New York, N. Y. Ship-lock lift. No. 1,392,638; Oct. 4.
- Grenagle, James B., Catonsville, assignor to The Rare Metals Reduction Company, Baltimore, Md. Metal alloy and producing the same. No. 1,385,072; July 19; v. 288; p. 507.
- Grenall, Violet G., New York, N. Y. Hair-curling device. No. 1,372,421; Mar. 22; v. 284; p. 675.
- Grenier, Henry J., Bridgeport, Conn. Cue-tip holder. No. 1,376,331; Apr. 26; v. 285; p. 704.
- Gresham Finance Corporation, Limited, The. (See Scott, Bateman D., assignor.)
- Gretsinger, William, Baltimore, Md. Painters' blowtorch. No. 1,380,140; May 31; v. 286; p. 972.
- Greuling, John J., Hibbing, Minn. Excavator-dipper door. No. 1,383,102; June 28; v. 287; p. 692.
- Greve, Edgar E., Bellevue, Pa. Rotary drilling-machine. No. 1,371,478; Mar. 15; v. 284; p. 438.
- Greve, Edgar E., Bellevue, Pa. Swivel-jar rope-socket. No. 1,371,479; Mar. 15; v. 284; p. 438.
- Greve, Edgar E., Bellevue, Pa. Rotary well-drilling apparatus. No. 1,377,575; May 10; v. 286; p. 284.
- Greve, Edgar E., Bellevue, Pa. Rotary well-drilling apparatus. No. 1,395,706; Nov. 1.
- Greve, Herman L., New York, N. Y., assignor to International Mailing Tube and Wrapper Company. Mailing-wrapper. No. 1,376,871; May 3; v. 286; p. 94.
- Greve, Herman L., New York, N. Y., assignor to International Mailing Tube and Wrapper Company. Mailing-wrapper. No. 1,376,872; May 3; v. 286; p. 94.
- Grever, J. F., New York, and T. S. Fox, Brooklyn, N. Y. Film-holding device. No. 1,398,458; Nov. 29.
- Greves, George L. (See Pernot, Frederick E., assignor.)
- Grey, John F., New Orleans, La. Steam-turbine. No. 1,393,114; Oct. 11.
- Grey, William S., San Francisco, Calif., assignor to Troy Laundry Machinery Co. Ltd., Chicago, Ill. Ironing-machine. No. 1,382,724; June 28; v. 287; p. 621.
- Grice, Arthur G., Maidenhead, assignor of one-half to G. & V. R. Limited, Maidenhead, Berks, England. Motor-vehicle. No. 1,368,032; Feb. 8; v. 283; p. 282.
- Grid-Iron-Grip Company. (See Slauson, Louis E., assignor.)
- Grider, James R., Roachdale, Ind. Vehicle-dump. No. 1,383,934; July 5; v. 288; p. 140.
- Grieb, Alfred, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Glove-sewing machine. No. 1,388,109; Aug. 16; v. 289; p. 549.
- Griebel, Rudolph M., Seattle, Wash. Game-board. No. 1,370,017; Mar. 1; v. 284; p. 50.
- Grieger, Louise. (See Faist, Andrew, assignor.)
- Grièrè, Jean C., Varese, Italy. Evaporator. No. 1,371,784; Mar. 15; v. 284; p. 497.
- Grierson, Benjamin H., Fort Davis, Tex. Attachment for gun-slugs. No. 1,396,270; Nov. 8.
- Grierson, William R., assignor to The Chase Companies, Inc., Waterbury, Conn. Crimped joint for bathroom-fixture. No. 1,395,707; Nov. 1.
- Gries, William, Newark, N. J. Antiskid tire-chain. (Re-issue.) No. 15,183; Aug. 30; v. 289; p. 951.
- Grieser, Anthony J. (See Donnelly, J. E., and Grieser.)
- Grieshaber, Hugo E., Groton, Conn., assignor to Electric Boat Company. Exhaust system for submarine vessels. No. 1,383,398; July 5; v. 288; p. 29.
- Griesser, Wilhelm, Joplin, Mo., assignor to W. C. Griesser, Pittsburgh, Pa. Deep-sea construction. No. 1,391,380; Sept. 20; v. 290; p. 521.
- Griesser, William C. (See Griesser, Wilhelm, assignor.)
- Griest, Henry J., Chester, Pa. Fire-escape. No. 1,370,306; Mar. 1; v. 284; p. 104.
- Griewank, Arthur C., San Francisco, Calif. Concrete railway-car. No. 1,378,374; May 17; v. 286; p. 490.
- Griewe, Rafael E., and R. Johnson, Los Angeles, Calif. Bumper. No. 1,394,170; Oct. 18.
- Griffeth, Francis E., Athens, Ga. Runningboard support. No. 1,371,889; Mar. 15; v. 284; p. 517.
- Griffeth, William G., Athens, Ga. Safety locking device and antirattler. No. 1,378,783; May 17; v. 286; p. 569.
- Griffin, Albert P., Troy, N. Y. Chain connection. No. 1,394,618; Oct. 25.
- Griffin, Alvah M., assignor to The Electric Hose and Rubber Company, Wilmington, Del. Coil of rubber hose and the process of colling. No. 1,401,904; Dec. 27.
- Griffin, Archibald W., assignor to The Electric Vaporizing Nozzle Company, Toledo, Ohio. Vaporizer. No. 1,380,553; June 7; v. 287; p. 43.
- Griffin, Barte J., Springfield, Mass. Valve. No. 1,394,895; Oct. 25.
- Griffin Button Company, The. (See Griffing, Bruce N., assignor.)
- Griffin, Edgar L., Lubec, Me. Saw. No. 1,395,957; Nov. 1.
- Griffin, Eddie F., Uniontown, Pa. Coke-shovel. No. 1,378,782; May 17; v. 286; p. 569.
- Griffin, Fred C., et al. (See Fuller, Clarence C., assignor.)
- Griffin, James T., Oak Park, C. A. Nelson, Chicago, and M. H. Campbell, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Soldering-machine. No. 1,379,684; May 31; v. 286; p. 886.
- Griffin, James T., Oak Park, and W. A. Timm, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrically-heated container. No. 1,386,705; Aug. 9; v. 289; p. 218.
- Griffin, James T., Oak Park, and W. A. Timm, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrically-heated soldering-iron. No. 1,400,156; Dec. 13.
- Griffin, James W. H., Altona, Mich. Car-fender. No. 1,400,052; Dec. 13.



*Alphabetical list of patentees—Continued.*

- Griffin, John. (See Lloyd, Robert R., assignor.)
- Griffin, John T., Baltimore, Md. Flow-regulating device for gas-burners. No. 1,388,704; Aug. 23; v. 289; p. 723.
- Griffin, Samuel P., North Judson, Ind. Capstan. No. 1,372,019; Mar. 22; v. 284; p. 598.
- Griffin, Sydney B., Mamaroneck, N. Y. Display device. No. 1,390,700; Sept. 13; v. 290; p. 321.
- Griffin, Sydney B., Mamaroneck, assignor to T. F. Moore, New York, N. Y. Display devices. No. 1,390,699; Sept. 13; v. 290; p. 321.
- Griffin, Walter B., Melbourne, Victoria, Australia. Building component. No. 1,381,823; June 14; v. 287; p. 336.
- Griffin, William, Wilnecote, near Tamworth, England. Safety device for mine-cages, lifts, and the like. No. 1,389,867; Sept. 6; v. 290; p. 62.
- Griffin, William F., Greenfield, Okla. Portable irrigation apparatus. No. 1,387,256; Aug. 9; v. 289; p. 327.
- Griffing, Bruce N., assignor to The Griffin Button Company, Shelton, Conn. Machine for reversing small articles. No. 1,385,000; July 19; v. 288; p. 492.
- Griffith, Anna. (See Griffith, William P., and A.)
- Griffith, Charles A. (See Sanford, H. W., Griffith, and Jones.)
- Griffith, Chauncey H., New York, N. Y., assignor to Mergenthaler Linotype Company. Printing-form and the art and means for producing same. No. 1,376,532; May 3; v. 286; p. 2.
- Griffith, Evan J., Riverton, Wyo. Safety-key for drilling-rigs. No. 1,397,864; Nov. 22.
- Griffith, James P., Johnstown, Pa. Combination rounding-tool. No. 1,365,683; Jan. 18; v. 282; p. 399.
- Griffith, L. E., Jr. (See Bedinger, Singleton B., assignor.)
- Griffith, Richard H., assignor to The Ohio Cultivator Company, Bellevue, Ohio. Soil-pulverizer implement. No. 1,397,683; Nov. 22.
- Griffith, Robert C., Baltimore, Md. Strap-lock for containers. No. 1,380,204; May 31; v. 286; p. 984.
- Griffith, Thomas H., Cincinnati, Ohio. Bed. No. 1,385,045; July 19; v. 288; p. 500.
- Griffith, William J. (See Miller, L., and Griffith.)
- Griffith, William P., and A., Minneapolis, Minn. Wash-board. No. 1,385,442; July 26; v. 288; p. 658.
- Griffiths, Harry A., Edgbaston, Birmingham, and R. H. Griffiths, Sutton Coldfield, England. Sheet-metal-working machine. No. 1,382,974; June 28; v. 287; p. 668.
- Griffiths, Harry A., Birmingham, and R. H. Griffiths, Sutton Coldfield, England. Sheet-metal-blank feeder. No. 1,394,006; Oct. 18.
- Griffiths, Harry A., Birmingham, and R. H., Sutton Coldfield, England. Power-press for operating on metal sheets or strips. No. 1,401,108; Dec. 20.
- Griffiths, Ira H., Syracuse, N. Y. Gun-mounting. No. 1,394,033; Oct. 18.
- Griffiths, James P., Durban, South Africa. Coding and decoding device. No. 1,389,559; Aug. 30; v. 289; p. 848.
- Griffiths, Richard H. (See Griffiths, Harry A. and R. H.)
- Griffiths, Richard T., O. Anderson, and J. O. Goodwin, assignors to The Miller Rubber Company, Akron, Ohio. Tire-building machine. No. 1,368,393; Feb. 15; v. 283; p. 400.
- Griffiths, William U., Philadelphia, Pa. Valve-controlling means for water-closet apparatus. No. 1,397,208; Nov. 15.
- Grigsby, Bertram J., Chicago, Ill. Lighting system for vehicles. No. 1,367,961; Feb. 8; v. 283; p. 269.
- Grigsby, Bertram J., Park Ridge, Ill. Steering-column. No. 1,396,195; Nov. 8.
- Grigsby, Bertram J., Chicago, Ill. Attachment plug. No. 1,398,228; Nov. 29.
- Grigsby, Bertram J., assignor to Anderson Electric & Equipment Co., Chicago, Ill. Extension-lamp mounting for vehicles. No. 1,389,585; Sept. 6; v. 290; p. 5.
- Grigsby, Marion W., East Peoria, Ill. Vehicle-wheel rim. No. 1,391,472; Sept. 20; v. 290; p. 540.
- Griggs, John O., Youngstown, Ohio. Portable back wall for open-hearth furnaces. No. 1,376,617; May 3; v. 286; p. 45.
- Griggs, John O., Youngstown, Ohio. Apparatus for and method of cutting drains in furnace-bottoms. No. 1,376,935; May 3; v. 286; p. 106.
- Grikscheit, William, Detroit, Mich. Priming-cup. No. 1,376,533; May 3; v. 286; p. 29.
- Grikscheit, William, Detroit, Mich. Valve-fitting. No. 1,376,534; May 3; v. 286; p. 29.
- Grill, Enoch, Grand Rapids, Mich. Tire. No. 1,393,773; Oct. 18.
- Grindtch, William H., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Making storage-battery plates. No. 1,374,076; Apr. 5; v. 285; p. 135.
- Grimelmann, Hermann, Wallisellen, Switzerland. Manufacturing of india-rubber suckers provided with valve-projectures. No. 1,381,185; June 14; v. 287; p. 217.
- Grimes, Henry D., Cleveland, Ohio. Lock. No. 1,372,020; Mar. 22; v. 284; p. 599.
- Grimes, Roy T., Forbes, Mo. Gate-latch. No. 1,383,103; June 28; v. 287; p. 693.
- Grimm, Paul H., F. L. Cocks, and O. C. Duryea, Glen Cove, N. Y. Combined primer and automatic auxiliary air-valve for internal-combustion engines. No. 1,378,449; May 17; v. 286; p. 504.
- Grimm, Richard, and E. F. Rhode, Two Rivers, Wis. Cutting mechanism. No. 1,384,060; July 12; v. 288; p. 215.
- Grimme, Natalls & Co., Commanditgesellschaft Auf Actien. (See Schaller, Carl, assignor.)
- Grimley, Isaac, Lamar, Colo. Wheeled toy. No. 1,396,109; Nov. 8.
- Grindrod, George, Kent, assignor to Carnation Milk Products Co., Seattle, Wash. Preservative for milk. No. 1,393,282; Oct. 11.
- Griner, Clarence R., Bowling Green, Ohio. Pitman-tightening device. No. 1,392,760; Oct. 4.
- Grings, Casper H., Waterloo, Iowa. Motor-vehicle signaling device. No. 1,373,808; Apr. 5; v. 285; p. 83.
- Grinham, Frederick, assignor of one-fourth to H. W. Spalding, one-fourth to J. C. Stiles, and one-fourth to G. P. Ward, St. Louis, Mo. Valve-silencer. No. 1,390,529; Sept. 13; v. 290; p. 286.
- Grinnell, Brayton C., Seattle, Wash. Glove. No. 1,377,338; May 10; v. 286; p. 240.
- Grinnell, Maurice W., Mount Vernon, N. Y. Artificial fruit and other articles and making the same. No. 1,366,380; Jan. 25; v. 282; p. 579.
- Grinolds, Fred A., and E. E. Martinson, Globe, Ariz. Muck-scooping apparatus. No. 1,371,785; Mar. 15; v. 284; p. 497.
- Grinwis, Nickolas, New Era, Mich. Dirigible spot-light. No. 1,367,962; Feb. 8; v. 283; p. 269.
- Grip Nut Company. (See Chadwick, Arthur B., assignor.)
- Grisak, Matt, Dubois, Pa. Rail-joint. No. 1,364,750; Jan. 4; v. 282; p. 135.
- Griscom, Russell Company, The. (See Brown, Stanley, assignor.)
- Griscom Russell Company. (See Price, Joseph, assignor.)
- Grisell, Ona, Courtland, Kans. Door-check. No. 1,364,932; Jan. 11; v. 282; p. 215.
- Griswold, John M., Syracuse, N. Y. Direction-indicator for motor-vehicles. No. 1,369,336; Feb. 22; v. 283; p. 622.
- Griswold, John W., and H. O. Loebell, Toledo, Ohio. Metallurgical furnace. No. 1,375,754; Apr. 26; v. 285; p. 593.
- Griswold Manufacturing Company. (See Hollands, John C., assignor.)
- Griswold, Marius E., Burlington, Iowa. Juvenile wagon. No. 1,376,873; May 3; v. 286; p. 94.
- Gritte, Joseph. (See Camell, R., Cochet, and Gritte.)
- Grizzle, Frank S., Sharps Chapel, Tenn. Bill-file. No. 1,379,299; May 24; v. 286; p. 739.
- Grizzle, Roscoe M., and A. H. Thacker, Terre Haute, Ind. Tie. No. 1,392,146; Sept. 27; v. 290; p. 749.
- Groat, Joseph E., Webster, Mass., assignor to B. A. Corbin and Son Company. Ironing shoes. No. 1,370,808; Mar. 8; v. 284; p. 246.
- Groat, Luther E., and F. F. Brush, Los Angeles, Calif., assignors to Elevator Safety Appliance Company. Elevator-door-operating device. No. 1,400,215; Dec. 13.
- Grob, Armin, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Green acid dyestuffs containing chromium and making same. No. 1,394,823; Oct. 25.
- Grob, Arnold, Cleveland, C. B. Keck, Wickliffe, and F. J. Baird, East Cleveland, assignors to The Homer Commutator Company, Cleveland, Ohio. Means for assembling commutators. No. 1,400,157; Dec. 13.
- Groce, Henry S., Duncan, Okla. Tractor. No. 1,368,795; Feb. 15; v. 283; p. 479.
- Grode, Frank P., and F. Huttig, Kansas City, Mo. Ventilating-sash lock. No. 1,395,708; Nov. 1.
- Grode, Rudolf G., Norwood, R. I. Chain-clasp. No. 1,375,090; Apr. 19; v. 285; p. 434.
- Groehl, Adolph F., Oyster Bay, N. Y. Viol. No. 1,377,067; May 3; v. 286; p. 131.
- Groebli, Joseph A., New York, N. Y. Embroidering mechanism. No. 1,398,590; Nov. 29.
- Groehn, Otto J., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Oil-burner. No. 1,364,193; Jan. 4; v. 282; p. 29.
- Groehn, Otto J., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Torch. No. 1,364,194; Jan. 4; v. 282; p. 29.
- Groehn, Otto J., and F. L. Aldis, assignors to Briscoe Manufacturing Company, Detroit, Mich. Radiator. No. 1,396,931; Nov. 15.
- Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Turning and facing lathe. No. 1,393,115; Oct. 11.
- Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Taper attachment for lathes. No. 1,401,534; Dec. 27.
- Groetken, Joseph J., Aurora, Ill. Liquid-dispensing apparatus. No. 1,372,071; Mar. 22; v. 284; p. 608.
- Groff, Angus R., Birmingham, Ala. Auxiliary-spring attachment. No. 1,385,993; Aug. 2; v. 289; p. 6.
- Groff, Horace, Wilmington, Del. Coin-counting device. No. 1,400,053; Dec. 13.
- Grogan, Edward W., Clarendon, Tex. Wrench. No. 1,372,618; Mar. 22; v. 284; p. 713.
- Groh, Frank W., Pittsburgh, Pa. Stilt. No. 1,367,376; Feb. 1; v. 283; p. 98.



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- Groh, Robert C., assignor to Louis F. Dow Company, St. Paul, Minn. Device for removing paper closures from milk-bottles. No. 1,386,056; Aug. 2; v. 289; p. 19.
- Groksky, Leonard H., Oconomowoc, Wis. Combination faucet and drinking-fountain. No. 1,367,696; Feb. 8; v. 283; p. 218.
- Gronbeck, Christian E. A. (See Van Gorder, W. H., and Gronbeck.)
- Gronbeck, Christian E. A., Woodhaven, N. Y. Safety-razor. No. 1,370,960; Mar. 8; v. 284; p. 274.
- Gronbeck, Christian E. A., Woodhaven, N. Y. Safety-razor. No. 1,376,759; May 3; v. 286; p. 71.
- Gronbeck, Christian E. A., Keene, N. H. Mail-clip. No. 1,394,727; Oct. 25.
- Grondahl, Hans H. C., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanism for cutting cords or strands. No. 1,374,200; Apr. 12; v. 285; p. 200.
- Groner, Ferdinand, Hillsboro, Oreg. Nut-washing machine. No. 1,387,257; Aug. 9; v. 289; p. 327.
- Grönman, Frans, Inwood, N. Y. Hinge for windows. No. 1,377,882; May 10; v. 286; p. 344.
- Gronquist, Carl G., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Spare-tire holder. No. 1,365,588; Jan. 11; v. 282; p. 342.
- Gronquist, Carl G., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Tire-carrier. No. 1,390,204; Sept. 6; v. 290; p. 129.
- Grooms, Columbus, East Point, Ga. Balloon-searchlight. No. 1,390,902; Sept. 13; v. 290; p. 362.
- Grooms, John, Atlanta, Ga. Folding chair. No. 1,398,854; Nov. 29.
- Grosjean, James E., Lima, Ohio. Sole for boots and shoes. No. 1,399,766; Dec. 13.
- Grosner, Gerald D. (See Sharples, D. T., and Grosner.)
- Gross, Angus R., Baltimore, Md. Parking-light for automobiles, &c. No. 1,380,058; May 31; v. 286; p. 956.
- Gross, Anna L., Philadelphia, Pa. Hairpin. No. 1,371,759; Mar. 15; v. 284; p. 492.
- Gross, Frederick D., R. P. Atkins, and J. W. Bucher, Denver, Colo. Flotation apparatus and process. No. 1,401,535; Dec. 27.
- Gross, Frederick D., R. P. Atkins, and J. W. Bucher, Denver, Colo. Roller-bearing for tire and trunnion type mills. No. 1,401,536; Dec. 27.
- Gross, George G., Columbus, Ohio. Windshield attachment. No. 1,394,084; Oct. 18.
- Gross, Jacob, Philadelphia, Pa. Advertising device. No. 1,370,807; Mar. 1; v. 284; p. 105.
- Gross, John, Carroll, Iowa. Wagon end-gate. No. 1,374,297; Apr. 12; v. 285; p. 218.
- Gross, Mones, Berwick, Pa. Collar-box. No. 1,372,809; Mar. 29; v. 284; p. 792.
- Gross, Mones, Berwick, Pa. Article-holder. No. 1,385,443; July 26; v. 288; p. 658.
- Gross, Nels. (See Duffy, Thomas I., assignor.)
- Gross, William, Sauk Rapids, Minn. Door construction. No. 1,376,535; May 3; v. 286; p. 29.
- Gross, William M., Breckenridge, Mo. End-gate. No. 1,367,377; Feb. 1; v. 283; p. 98.
- Grossenbacher, Ernest, Fajardo, Porto Rico. Automatic valve for oil-burners. No. 1,398,549; Nov. 29.
- Grossenbacher, Ernest, Fajardo, Porto Rico. Automatic regulator for fuel oil burners. No. 1,401,599; Dec. 27.
- Grossman, Harrison R., Philadelphia, Pa. Finger-ring. No. 1,383,104; June 28; v. 287; p. 693.
- Grossman, Harry, New York, N. Y. Belt-buckle. No. 1,384,061; July 12; v. 288; p. 215.
- Grossman, Mollie L., New York, N. Y. Toilet article. No. 1,366,792; Jan. 25; v. 282; p. 662.
- Grossman, Simon, Pittsburgh, Pa. Suitcase. No. 1,397,374; Nov. 15.
- Grosswege, John B., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Manually-operated circuit-crossing switch. No. 1,389,134; Aug. 30; v. 289; p. 864.
- Grosswege, John B., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electro-pneumatic brakes. No. 1,400,602; Dec. 20.
- Grosvenor, William M., New York, N. Y., assignor to Perkins Glue Company. Vegetable glue and making same. No. 1,378,105; May 17; v. 286; p. 439.
- Grosvenor, William M., New York, N. Y., assignor to Perkins Glue Company. Vegetable glue and making same. No. 1,378,106; May 17; v. 286; p. 439.
- Grosvoid, Fred E., Eau Claire, Wis. Ball-valve for closet-tanks. No. 1,377,883; May 10; v. 286; p. 345.
- Grosz, Adam H. (See Klare, H. R., and Grosz.)
- Grote, Robert E., St. Louis, Mo. Display-card. No. 1,388,561; Aug. 23; v. 289; p. 695.
- Gründick, Frederick C., Rock Hill, S. C. Swinging buck for vehicle-bodies. No. 1,364,629; Jan. 4; v. 282; p. 112.
- Grotenhuis, William J. (See Pancoast, W. G., and Grotenhuis.)
- Grothaus, Julia, Fort Sam Houston, Tex. Blackboard. No. 1,370,961; Mar. 8; v. 284; p. 274.
- Grotlich, Victor E. (See Sterling, W. F., Grotlich, and Veltch.)
- Grotton Electrical Devices. (See Bassette, John G., assignor.)
- Grotta, Bennett. (See Cook, R. M., and Grotta.)
- Groupe, Andrew V. (See Brenizer, Orson W., assignor.)
- Groupe, Andrew V., Philadelphia, Pa. Adjustable doll's eye. No. 1,370,889; Mar. 8; v. 284; p. 260.
- Grout, Harry K., Muscatine, Iowa. Rule. No. 1,387,599; Aug. 16; v. 289; p. 448.
- Grove, Carl T. (See Wagner, P. R., and Grove.)
- Grove, Edmund D., Oakland, Calif. Combined teeter and roundabout. No. 1,392,147; Sept. 27; v. 290; p. 749.
- Grove, Edwin W. C. (See Carrier, Albert H., assignor.)
- Grove, Jesse G., Red Oak, Iowa. Oil-test wrench. No. 1,370,642; Mar. 8; v. 284; p. 214.
- Grove, Paul G., Buffalo, N. Y. Sign-letter and the like. No. 1,392,639; Oct. 4.
- Grove, Thomas E., Dayton, Ohio. Indicating-calipers. No. 1,365,779; Jan. 18; v. 282; p. 418.
- Grover, Albert D. (See Potts, E. B., and Grover.)
- Grover, Albert D., New York, N. Y. Clothes-guard for banjos and the like. No. 1,370,308; Mar. 1; v. 284; p. 105.
- Grover, Albert D., New York, N. Y. Banjo construction. No. 1,371,760; Mar. 15; v. 284; p. 492.
- Grover, Albert D., New York, N. Y. Bridge for musical stringed instruments. No. 1,381,187; June 14; v. 287; p. 218.
- Grover, Albert D., New York, N. Y., assignor, by mesne assignments, to Autosales Corporation. Coin-testing device for coin-controlled machines. No. 1,381,186; June 14; v. 287; p. 217.
- Grover, Albert D., New York, N. Y. Tuning-peg for stringed musical instruments. No. 1,384,459; July 12; v. 288; p. 298.
- Grover, Albert D., New York, N. Y., assignor to Autosales Corporation. Vending-machine. No. 1,385,822; July 26; v. 288; p. 735.
- Grover, Albert D., New York, N. Y., assignor to Autosales Corporation. Slot-closing device for coin-controlled vending-machines. No. 1,391,732; Sept. 27; v. 290; p. 666.
- Grover, Albert D., New York, N. Y., assignor, by mesne assignments, to Autosales Corporation. Vending-machine. No. 1,400,814; Dec. 20.
- Grover, Albert D., Malden, Mass., assignor, by mesne assignments, to Autosales Corporation. Coin-tester for coin-controlled vending-machines. No. 1,373,422; Apr. 5; v. 285; p. 8.
- Grover, George B. (See Wright, W. C., Young, and Grover.)
- Grover, George B., assignor to W. J. Young Machinery Company, Lynn, Mass. Piercing and nailing mechanism for heel-builders. No. 1,391,951; Sept. 27; v. 290; p. 710.
- Groves, James E., Boston, Mass. Machine for feeding pellets into containers. No. 1,383,623; July 5; v. 288; p. 76.
- Groves, Joab C., Valley Point, W. Va. Hen's nest. No. 1,399,614; Dec. 6.
- Groves, Harry, Bellingham, Wash. Automatic garage-door. No. 1,394,728; Oct. 25.
- Groves, Mile. (See Rogers, R., and Groves.)
- Groves, Samuel E., Felling-on-Tyne, England. Dope or varnish for aircraft constructions. No. 1,366,256; Jan. 18; v. 282; p. 512.
- Groves, Samuel E., Felling-on-Tyne, and T. W. H. Ward, London, England. Dope or varnish used in aeroplane construction. No. 1,400,430; Dec. 13.
- Groves, William L. (See De Vito, Joseph M., assignor.)
- Gruban, John G. W. (See Hindle, A. H., Savage, Dabbs, and Liddle, assignors.)
- Grube, George F., Evanston, Ill., assignor to The Belber Trunk & Bag Company, Philadelphia, Pa. Wardrobe-trunk. No. 1,367,251; Feb. 1; v. 283; p. 73.
- Grube, George F., Evanston, Ill., assignor to The Belber Trunk & Bag Company, Philadelphia, Pa. Drawer-locking device. No. 1,375,249; Apr. 19; v. 285; p. 465.
- Gruber, Martin L., Wernersville, Pa. Tire-carrier. No. 1,390,528; Sept. 13; v. 290; p. 286.
- Gruber, Morris M., assignor to Pathe Freres Phonograph Company, New York, N. Y. Chuck for phonograph-styl. No. 1,400,158; Dec. 13.
- Grubman, Leo J., assignor to Erie Metal Products Company, Erie, Pa. Clothes-washer. No. 1,374,850; Apr. 12; v. 285; p. 326.
- Grubman, Leo J., Erie, Pa., and G. A. Duden, Brooklyn, N. Y. Speed-indicating instrument. No. 1,395,638; Nov. 1.
- Gruen, D., Sons & Company, The. (See Gruen, Frederick G., assignor.)
- Gruen, Frederick G., assignor to The D. Gruen Sons & Company, Cincinnati, Ohio. Swivel. No. 1,399,112; Dec. 6.
- Gruenberg, Raoul J., San Francisco, Calif. Sifter-top carton. No. 1,367,379; Feb. 1; v. 283; p. 99.
- Gruenberg, Raoul J., assignor to Pacific Folding Box Factory, San Francisco, Calif. Paper box and manufacture thereof. No. 1,367,378; Feb. 1; v. 283; p. 99.
- Gruenberg, Walter A., Birmingham, assignor to J. L. Marcero, Pontiac, Mich. Clay-working machinery. No. 1,394,495; Oct. 18.
- Gruenberger, George J., assignor of one-half to M. Kallis, Chicago, Ill. Check or ticket perforating device. No. 1,366,793; Jan. 25; v. 282; p. 662.
- Gruender, Max R., Milwaukee, Wis. Auto-signal. No. 1,399,615; Dec. 6.
- Gruenfeld, Julius J. (See Kircher, P., and Gruenfeld.)



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- Gruenfeld, Julius J., Jr., Chicago, Ill. Sofa-bed. No. 1,379,300; May 24; v. 286; p. 739.
- Gruenfeld, Jr., Julius J., Chicago, Ill. Machine for making concrete poles. No. 1,374,750; Apr. 12; v. 285; p. 302.
- Gruenfeld, Julius J., Jr., and P. Kircher, assignors to Massey Concrete Products Corporation, Chicago, Ill. Pole and step therefor. No. 1,369,098; Feb. 22; v. 283; p. 577.
- Gruenfeldt, Emil, Cleveland, Ohio. Regulating sound-box reproduction. (Reissue). No. 15,114; May 31; v. 286; p. 1009.
- Gruhl, Irvin W., Los Angeles, Calif. Comedian's suit. No. 1,373,423; Apr. 5; v. 285; p. 8.
- Grunm-trup, Bernard F., Clinton, Iowa. Vending-machine. No. 1,400,742; Dec. 20.
- Grun, Wilhelm, Frankfurt-on-the-Main, Germany. Regulation of rotary compressors. No. 1,372,502; Mar. 22; v. 284; p. 691.
- Grundmann, Michael G., Faribault, Minn. Shoe. No. 1,395,639; Nov. 1.
- Grundmann, Otto, Jersey City, N. J. Swimming device. No. 1,374,077; Apr. 5; v. 285; p. 136.
- Grundmann, Otto W., Jersey City, N. J. Swimming device. No. 1,395,914; Nov. 1.
- Grundmann, William, St. Louis, Mo. Patella-splint. No. 1,375,607; Apr. 19; v. 285; p. 514.
- Grundy, James A., assignor to John Bromley & Sons, Incorporated, Philadelphia, Pa. Dyeing-machine. No. 1,389,444; Aug. 30; v. 289; p. 926.
- Grundy, James A., assignor to John Bromley & Sons, Incorporated, Philadelphia, Pa. Dyeing yarns and the like. No. 1,400,675; Dec. 20.
- Grunig, Frédéric, Brooklyn, and M. L. Van Huele, New York, N. Y. Adjustable hat-lining. No. 1,396,421; Nov. 8.
- Grünig, Fritz, Thun, Switzerland. Block-signal system. No. 1,392,254; Sept. 27; v. 290; p. 771.
- Grunow, William, New York, N. Y., assignor to Splitdorf Electrical Company, Newark, N. J. Winding-machine. No. 1,371,367; Mar. 15; v. 284; p. 416.
- Grunow, William, assignor to Splitdorf Electrical Company, Newark, N. J. Ignition device for internal-combustion engines. No. 1,380,797; June 7; v. 287; p. 91.
- Grunwald, Albert C., assignor to Precision Metal Workers, Chicago, Ill. Oil-cup. No. 1,380,059; May 31; v. 286; p. 957.
- Grunwald, Albert C., assignor to Precision Metal Workers, Chicago, Ill. Electrical connection. No. 1,383,718; July 5; v. 288; p. 96.
- Grunwald, Albert C., Chicago, Ill., assignor to Precision Metal Workers. Oil-cup. No. 1,380,060; May 31; v. 286; p. 957.
- Grunwald, Albert C., Chicago, Ill., assignor to Precision Metal Workers. Oil-cup. No. 1,386,403; Aug. 2; v. 289; p. 86.
- Grunwald, Bertrand B., Seattle, Wash. Molding device. No. 1,397,375; Nov. 15.
- Grupe, William F. (See Adamson, A. A., and Grupe.)
- Grupe, William F., North Bergen, N. J., and A. A. Adamson, Brooklyn, N. Y. Rim-board. No. 1,379,622; May 31; v. 286; p. 875.
- Grupe, William F., North Bergen, N. J., assignor to Endless Belt Corporation, Inc. Heddlng and warping. No. 1,395,818; Nov. 1.
- Grupe, George H., assignor of one-fourth to L. E. Bedford and one-fourth to C. Therkelsen, San Francisco, Calif. Shock-absorber. No. 1,387,706; Aug. 16; v. 289; p. 470.
- Grupe, William F., Hudson Heights, N. J. Weaving apparatus. No. 1,385,444; July 26; v. 288; p. 658.
- Grupe, William F., Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc. Belt-guiding means. No. 1,391,184; Sept. 20; v. 290; p. 481.
- Grupe, William F., Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc. Self-adjusting tension means. No. 1,391,185; Sept. 20; v. 290; p. 481.
- Grupe, William F., Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc. Tipping mechanism. No. 1,393,524; Oct. 11.
- Grupe, William F., Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc. Counting mechanism. No. 1,393,525; Oct. 11.
- Grupe, William F., Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc. Tipping mechanism for cigarette-machines. No. 1,393,526; Oct. 11.
- Grukin, Isaac R., Kittanning, Pa. Roll-film-developing device. No. 1,372,347; Mar. 22; v. 284; p. 661.
- Gruess, Lucien R., assignor to Pneumatic Cushion Company, San Francisco, Calif. Air-spring. No. 1,366,318; Jan. 18; v. 282; p. 523.
- Grylls, Horace R., Weybridge, and W. Heape, London, England. Electric arc lamp. No. 1,364,751; Jan. 4; v. 282; p. 136.
- Grymes, Agnes B., Los Angeles, Calif. Mop-cleaning device. No. 1,399,341; Dec. 6.
- Gschwind, Leon, Youngstown, Ohio. Washing-machine. No. 1,377,473; May 10; v. 286; p. 266.
- Gsell, Henry A., Paris, France. Apparatus for packing matches in boxes for match-making machines. No. 1,378,784; May 17; v. 286; p. 569.
- Guagliardo, Joseph, Hammond, La. Pneumatic tire. No. 1,379,915; May 31; v. 286; p. 929.
- Guardian Trust and Savings Bank of Toledo, The. (See Lott, Clyde R., assignor.)
- Guardian Trust & Savings Bank of Toledo, The, trustee. (See Lott, Clyde R., assignor.)
- Guarglia, Vito, Brooklyn, N. Y. Pen and pencil clip. No. 1,370,206; Mar. 1; v. 284; p. 85.
- Guarnieri, Robert A., Philadelphia, Pa., assignor to Graeber Vacuum Piano-Player Attachment Company, Inc. Suction attachment for player-piano mechanism. No. 1,380,473; June 7; v. 287; p. 28.
- Guasch, Fidelio, San Nicolas, Cuba. Traction-shoe for vehicle-wheels. No. 1,377,679; May 10; v. 286; p. 304.
- Guasch, Fidelio, San Nicolas, Cuba. Loading and unloading apparatus. No. 1,365,983; Jan. 18; v. 282; p. 458.
- Guay, Emery, Spokane, Wash. Saw-set. No. 1,375,147; Apr. 19; v. 285; p. 446.
- Gubelmann, William S., Buffalo, N. Y. Vertical-ruling mechanism for calculating and like machines. No. 1,370,499; Mar. 1; v. 284; p. 141.
- Gubelmann, William S., Buffalo, N. Y. Paper-supporting mechanism for recording-machines. No. 1,372,748; Mar. 22; v. 284; p. 779.
- Gudelj, Ella I., San Francisco, Calif. Combined baby carriage and walker. No. 1,381,415; June 14; v. 287; p. 259.
- Gudka, E. E., Mfg. Co. (See Williams, Frank P., assignor.)
- Gudowski, Victor, Chicago, Ill. Combined baby-carriage, cradle, and crib. No. 1,372,422; Mar. 22; v. 284; p. 675.
- Guelbaum, David, Syracuse, N. Y. Closed high-temperature gas-burner. No. 1,388,460; Aug. 23; v. 289; p. 677.
- Guenin, Walter H., Lewellen, Nebr. Tank-heater. No. 1,389,653; Sept. 6; v. 290; p. 19.
- Guérin, Joseph A. (See Thomas, L. V., and Guérin.)
- Guerini, Annibale A., Middleboro, Mass. Internal-combustion rotary engine. No. 1,381,872; June 14; v. 287; p. 346.
- Guerrant, John L., Sedalia, Mo. Track and hanger. No. 1,399,616; Dec. 6.
- Guest, Harold A. T., Birmingham, England. Holder for the burning of candles. No. 1,365,485; Jan. 11; v. 282; p. 321.
- Guest, James J., London, England. Cutter-grinding machine. No. 1,398,187; Nov. 22.
- Gueugnon, François, Paris, France. Apparatus for recording various phenomena by the movement of the recording-strip. No. 1,379,916; May 31; v. 286; p. 929.
- Guffey, George E. (See Rhodes, J. C., Guffey, and Sheehan.)
- Guggenbuehler, Carl, Newark, N. J. Universal lubricating device. No. 1,367,252; Feb. 1; v. 283; p. 74.
- Guggenberger, Leopold, Hastings-upon-Hudson, N. Y., assignor to Rolup Screen Company. Window-screen. No. 1,395,492; Nov. 1.
- Guhl, August C., Chicago, Ill. Collapsible can. No. 1,375,384; Apr. 19; v. 285; p. 490.
- Guhlman, Charles F., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Furnace. No. 1,370,309; Mar. 1; v. 284; p. 105.
- Guhr, Charles A., Chicago, Ill. Bank-burglar protective device. No. 1,384,613; July 12; v. 288; p. 331.
- Guiberson Corporation, The. (See Montgomery, Gustavus, assignor.)
- Guiberson Corporation. (See Montgomery, Gustavus A., assignor.)
- Guiberson Corporation, The. (See Wilson, Robert A., assignor.)
- Guiberson, S. A., Jr. (See Trew, George B., assignor.)
- Guibert, Francis W., Detroit, Mich. Internal-combustion engine. No. 1,391,106; Sept. 20; v. 290; p. 465.
- Guild, Albert W., Boston, Mass. Can-opener. No. 1,365,486; Jan. 11; v. 282; p. 322.
- Guild, Frank E., Milwaukee, Wis. Amusement device. No. 1,365,984; Jan. 18; v. 282; p. 458.
- Guild, George R., U. S. Army, assignor of one-half to C. T. Payton, St. Louis, Mo. Relay. No. 1,382,356; June 21; v. 287; p. 496.
- Guild, George R., U. S. Army, assignor of one-half to C. T. Payton, St. Louis, Mo. Relay. No. 1,384,948; July 19; v. 288; p. 480.
- Guild, Willis T., Jackson, Miss. Can-filling machine. No. 1,383,105; June 28; v. 287; p. 693.
- Guidal, Alfred E., Toronto, Ontario, Canada. Cooking-cabinet. No. 1,375,148; Apr. 19; v. 285; p. 446.
- Guignard, August, and F. Rosiger, Hood River, Ore. Tractor safety device. No. 1,399,552; Dec. 6.
- Guilfolle, Francis P. (See Beron, Frank G., assignor.)
- Guill, Andrew J., Winifred, Mont. Tobacco-receptacle. No. 1,383,935; July 5; v. 288; p. 140.
- Guillemet, François L., San Francisco, Calif. Asphalt-pavement-cutting machine. No. 1,366,649; Jan. 25; v. 282; p. 633.
- Guiley, Henri A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rotation means for percussive tools. No. 1,384,661; July 12; v. 288; p. 341.
- Guillery, René, Aubervilliers, France. Apparatus for making rapid tests of the hardness of metals. No. 1,367,133; Feb. 1; v. 283; p. 50.
- Guillery, René, Paris, France. Testing materials and machines embodying the same. No. 1,375,385; Apr. 19; v. 285; p. 490.



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- Guillochin, Alphonse, assignor of one-half to J. Guimet, Fleurieu-sur-Saône, France. Manufacture of ultramarine. No. 1,400,131; Dec. 13.
- Guillon, William, assignor to Societe Des Etablissements Bailot, Courbevoie, France. Compression-regulator for explosion-motors. No. 1,371,556; Mar. 15; v. 284; p. 454.
- Guimet, Jean. (See Guillochin, Alphonse, assignor.)
- Guimonneau, Louis H., Le Raincy, France. Building-wall. No. 1,388,181; Aug. 23; v. 289; p. 620.
- Guinnes, Plato. (See Missogenis, Georges, assignor.)
- Guinzburg, George K., assignor to I. B. Kleinert Rubber Company, New York, N. Y. Garment-protector. No. 1,397,579; Nov. 22.
- Guinzburg, Victor, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Flotation device. No. 1,364,275; Jan. 4; v. 282; p. 45.
- Guinzburg, Victor, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Flotation device. No. 1,383,624; July 5; v. 288; p. 76.
- Guise, Gaitley, Riley, Ind. Tongue-shield. No. 1,365,684; Jan. 18; v. 282; p. 399.
- Guise, William E., Rittman, Ohio. Boiler-feed-water regulator. No. 1,383,936; July 5; v. 288; p. 140.
- Guite, Harry, Radcliffe, Manchester, England. Hacksaw-frame. No. 1,370,809; Mar. 8; v. 284; p. 246.
- Guterman Bros. (See Hanson, Harry C., assignor.)
- Gulbrandsen, Axel G., assignor to Gulbrandsen-Dickinson Company, Chicago, Ill. Action-bracket. No. 1,385,076; July 19; v. 288; p. 507.
- Gulbrandsen, Axel G., assignor to Gulbrandsen-Dickinson Company, Chicago, Ill. Player-piano. No. 1,391,107; Sept. 20; v. 290; p. 466.
- Gulbrandsen-Dickinson Company. (See Gulbrandsen, Axel G., assignor.)
- Gulbrandsen, Gulbrand, assignor to Streeter Amet Weighing & Recording Company, Chicago, Ill. Weighing and recording scale. No. 1,369,238; Feb. 22; v. 283; p. 604.
- Gulf Refining Co. (See Taber, George H., Jr., assignor.)
- Gulf Refining Company. (See Alexander, C. M., and Taber, Jr., assignors.)
- Gulf Refining Company. (See Alexander, Clive M., assignor.)
- Gulick, Edward J., Elkhart, Ind. Oiling device for internal-combustion engines. No. 1,369,289; Feb. 22; v. 283; p. 604.
- Gulick, Edward J., Elkhart, Ind. Engine-piston. No. 1,387,538; Aug. 16; v. 289; p. 436.
- Gulick, Edward J., Elkhart, Ind. Antirattler. No. 1,387,539; Aug. 16; v. 289; p. 436.
- Gulick, Edward J., assignor to C. G. Conn, Ltd., Elkhart, Ind. Apparatus for calibrating and justifying parts of wind musical instruments. No. 1,389,348; Aug. 30; v. 289; p. 907.
- Gulick, Shelley, Barnes, London, England. Button. No. 1,397,957; Nov. 22.
- Gullas, John. (See Piscek, Joseph Y., assignor.)
- Gullborg, Arthur V., Chicago, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Handle and making the same. No. 1,365,985; Jan. 18; v. 282; p. 459.
- Gullborg, Arthur V., Chicago, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Swivel-coupling. No. 1,365,986; Jan. 18; v. 282; p. 459.
- Gullborg, Arthur V. and J. S., Chicago, Ill., assignors, by mesne assignments, to The Bassick Manufacturing Company. Swivel-coupling. No. 1,366,381; Jan. 25; v. 282; p. 579.
- Gullborg, John S. (See Gullborg, Arthur V. and J. S.)
- Gullick, Geoffrey M., Highfield, near Wigan, England. Coupling. No. 1,376,332; Apr. 26; v. 285; p. 704.
- Gulline, Henry L., Bordeaux, Quebec, Canada. Calendar. No. 1,378,857; May 24; v. 286; p. 656.
- Gully, Perry G., Rosalia, Wash. Bushing-remover. No. 1,400,676; Dec. 20.
- Gumaer, Albert P., East Orange, N. J. Portable shower-bath apparatus. No. 1,392,495; Oct. 4.
- Gumber, Joseph, and A. Schneider, East Moline, Ill. Card-display mechanism. No. 1,399,210; Dec. 6.
- Gumprecht, William L., Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Typewriting-machine. No. 1,388,253; Aug. 23; v. 289; p. 635.
- Gunby, James W., Ridgefield Park, N. J. Method and machine for drying, cleaning, and polishing moving-picture films. No. 1,401,771; Dec. 27.
- Gunderman, Lester S., Pittsburgh, Pa. Attachment for flexible reel-covers. No. 1,386,617; Aug. 9; v. 289; p. 200.
- Gunderman, William J., New York, N. Y. Antiskid device. No. 1,400,358; Dec. 13.
- Gundersen, Adolph S., Oakland, Calif. Case-hardening copper. No. 1,372,423; Mar. 22; v. 284; p. 676.
- Gunderson, Benjamin O., Chicago, Ill. Child's chair. No. 1,387,049; Aug. 9; v. 289; p. 288.
- Gunderson, Levi C., Beaver, Utah. Boiler-feed-water regulator. No. 1,373,237; Mar. 29; v. 284; p. 877.
- Gunn, Charles H., Emeryville, Calif. Trolley-pole. No. 1,371,557; Mar. 15; v. 284; p. 454.
- Gunn, Charles H., Oakland, Calif. Extension-table. No. 1,378,375; May 17; v. 286; p. 490.
- Gunn, Charles H., Oakland, Calif. Extension-table. No. 1,385,445; July 26; v. 288; p. 658.
- Gunn, Charles H., Oakland, Calif. Combination bed and table. No. 1,385,446; July 26; v. 288; p. 658.
- Gunn, Charles H., Oakland, Calif. Combination bed, table, and settee. No. 1,399,342; Dec. 6.
- Gunn, George H., assignor of one-half to C. E. French, Rochester, N. Y. Feeding mechanism. No. 1,387,707; Aug. 16; v. 289; p. 470.
- Gunn, Thomas M., New York, N. Y., assignor to Electric Boat Company. Disappearing gun for submarines. No. 1,376,536; May 3; v. 286; p. 29.
- Gunn, William A., Grand Rapids, Mich. Desk-top or like structure and making same. No. 1,381,916; June 21; v. 287; p. 415.
- Gunnarson, Enoch C., Brooklyn, N. Y. Smoking-pipe cleaner. No. 1,380,897; June 7; v. 287; p. 110.
- Gunnnett, George M. and Olen, Frostburg, Md. Nut-lock. No. 1,387,258; Aug. 9; v. 289; p. 327.
- Gunnnett, Olen. (See Gunnnett, George M. and O.)
- Gunnill, Ernest, Hook, near Goole, assignor to Printeasie, Limited, Goole, England. Adhesive label. No. 1,370,962; Mar. 8; v. 284; p. 275.
- Gunnoe, Berta B., Beckley, W. Va. Antislipping attachment for wheel-tires. No. 1,392,148; Sept. 27; v. 290; p. 750.
- Gunsallus, Arthur, Tyrone, Pa. Spring-wheel. No. 1,370,435; Mar. 1; v. 284; p. 129.
- Gunter, Charles S., Spruce Pine, N. C. Cigar-box-lid holder and display-ticket. No. 1,390,125; Sept. 6; v. 290; p. 114.
- Gunther, Ami H., Chillicothe, Ohio. Making backing-plate for artificial teeth. No. 1,377,474; May 10; v. 286; p. 266.
- Gunther, Ferdinand H. (See La Fleur, Peter J., assignor.)
- Gunther, George E., St. Paul, Minn. Garden-tractor. No. 1,389,945; Sept. 6; v. 290; p. 78.
- Gunther, George E., St. Paul, Minn. Garden-tractor. No. 1,398,777; Nov. 29.
- Gurewitsch, Nathan, Weidling, near Klosterneuburg, Austria. Button-fastener. No. 1,397,376; Nov. 15.
- Gurjar, Anant M., St. Paul, Minn. Whole-rice food and producing the same. No. 1,377,125; May 3; v. 286; p. 142.
- Gurtler, Joseph M., Saratoga Springs, N. Y. Exhibitor. No. 1,370,456; Mar. 1; v. 284; p. 129.
- Gurske, Anna C., Omaha, Nebr. File-wrapper. No. 1,382,780; June 28; v. 287; p. 632.
- Gury, John B., St. Louis, Mo. Means for reducing friction. No. 1,381,188; June 14; v. 287; p. 218.
- Gusdorf, Harold M., Indianapolis, Ind. Buffer-check for loom-pickers. No. 1,375,841; Apr. 26; v. 285; p. 609.
- Gush, Arthur S., Edinburgh, Scotland. Means for mounting electrodes employed in the prevention of corrosion in steam-boilers, condensers, and like structures. No. 1,366,257; Jan. 18; v. 282; p. 512.
- Gushman, Joseph F., Toledo, Ohio. Swing. No. 1,393,774; Oct. 18.
- Gustafson, Adolph P., assignor to M. Schulz Company, Chicago, Ill. Sheet-controlling mechanism. No. 1,372,657; Mar. 22; v. 284; p. 720.
- Gustafson, Adolph P., assignor to M. Schulz Co., Chicago, Ill. Bellows for pneumatically-operated musical instruments. No. 1,398,730; Nov. 29.
- Gustafson, Arvid, Bonita, and J. H. Murphy, Portland, Oreg. Campers' steel portable folding bed. No. 1,366,728; Jan. 25; v. 282; p. 649.
- Gustafson, August J., Maywood, Ill. Hinge-butt. No. 1,379,814; May 31; v. 286; p. 910.
- Gustafson, Axel E., Centerville, S. D. Apparatus for testing battery-jars. No. 1,370,437; Mar. 1; v. 284; p. 129.
- Gustafson, Axel R., Chicago, Ill. Ironing-machines. No. 1,389,753; Sept. 6; v. 290; p. 39.
- Gustafson, Charles, Instantan, Pa. Saw-dressing tool. No. 1,396,682; Nov. 8.
- Gustafson, Elmer E., Sullivan, Mich. Collapsible funnel. No. 1,373,722; Apr. 5; v. 285; p. 66.
- Gustafson, Isaac. (See Tors, John, assignor.)
- Gustafson, Oscar, Seattle, Wash. Tool-holder. No. 1,380,317; May 31; v. 286; p. 1005.
- Gustave-Fox Company, The. (See Laws, Edward, assignor.)
- Gustavel, Louis G., Monticello, Ind. Secretary-case drawer for tables. No. 1,371,890; Mar. 15; v. 284; p. 517.
- Gustavson, Frank A., Seekonk, Mass. Micrometer-caliper attachment. No. 1,370,310; Mar. 1; v. 284; p. 105.
- Gustiana, Anthony, Sudbury, Ontario, Canada. Lifting-jack. No. 1,400,054; Dec. 13.
- Gustus, John A., Detroit, Mich. Latch. No. 1,398,374; Nov. 29.
- Gusy, Eugene, Buffalo, N. Y. Window. No. 1,370,890; Mar. 8; v. 284; p. 260.
- Gutenkunst, William, Milwaukee, Wis. Hay-carrier. No. 1,394,729; Oct. 25.
- Guth, Edwin F., assignor to St. Louis Brass Manufacturing Company, St. Louis, Mo. Lamp-shade. No. 1,374,648; Apr. 12; v. 285; p. 287.



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- Guth, Emil. (See Gerdes, O. A., and Guth.)
- Guth, Henry L., Nappanee, Ind. Table. No. 1,372,169; Mar. 22; v. 284; p. 626.
- Guthrie, Gordon N., Dallas, Tex. Motor-driven tire-pump. No. 1,368,139; Feb. 8; v. 283; p. 303.
- Guthridge, Charles F., Los Angeles, Calif. Typist's copy-stand. No. 1,393,116; Oct. 11.
- Guthrie, Grover, Massena, Iowa. Device for holding hogs. No. 1,393,527; Oct. 11.
- Guthrie, Milard G., Wichita, Kans. Actuating device for temper-screws. No. 1,368,394; Feb. 15; v. 283; p. 400.
- Guthrie, Laurence R., Miami, Okla. Turbine. No. 1,383,937; July 5; v. 288; p. 140.
- Guthrie, Walter L. (See Copeland, James P., assignor.)
- Guthrie, William, Motherwell, assignor of one-half to D. M. Wallace, Glasgow, Scotland. Motor-tractor for agricultural work. No. 1,392,149; Sept. 27; v. 290; p. 750.
- Gutmann, Moritz, Seattle, Wash. Brush. No. 1,379,976; May 31; v. 286; p. 941.
- Gutmuehler, Robert, Woodhaven, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Casting apparatus. No. 1,393,216; Oct. 11.
- Gutridge, John A., and J. A. Wood, McLoud, Okla. Road-drag. No. 1,394,548; Oct. 25.
- Gutsche, Hermann, New Ulysses, Kans. Wire-stretcher. No. 1,371,163; Mar. 8; v. 284; p. 312.
- Güttinger, Heinrich, assignor to A. G. Brown Boveri & Cie., Baden, Switzerland. Apparatus for starting motors, more particularly heat-motors. No. 1,373,558; Apr. 5; v. 285; p. 35.
- Gutweiler, Joseph L., and F. W. Kublin, St. Louis, Mo. Trolley. No. 1,385,673; July 26; v. 288; p. 707.
- Gutweiler, Joseph L., and F. W. Kublin, St. Louis, Mo. Trolley. No. 1,397,760; Nov. 22.
- Guy, Albert E., Washington, D. C. Applying pressure to the interior of closed vessels. No. 1,369,890; Mar. 1; v. 284; p. 26.
- Guy, Albert E., U. S. Army. Gun-tube and manufacturing same. No. 1,384,718; July 12; v. 288; p. 353.
- Guy, Alfred. (See Murray, H. L., and Guy.)
- Guy, Frank E., New Southgate, London, England. Calculating-machine. No. 1,395,983; Nov. 1.
- Guy, Frank H. (See Gaidos, A. F., and Guy.)
- Guy, George T., Oneida, N. Y. Wheel or pulley. No. 1,369,337; Feb. 22; v. 283; p. 623.
- Guy, Henry L., Manchester, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Steam-turbine. No. 1,369,023; Feb. 22; v. 283; p. 562.
- Guy, Henry L., Manchester, England, assignor to The British Westinghouse Electric and Manufacturing Company. Steam-turbine. No. 1,379,258; May 24; v. 286; p. 731.
- Guy, Samuel R., assignor to Hobbs Storage Battery Co., Los Angeles, Calif. Storage battery. No. 1,377,148; May 3; v. 286; p. 146.
- Guy, Sydney S., Compton, near Wolverhampton, England. V-type internal-combustion engine. No. 1,396,744; Nov. 15.
- Guy, Virgil A., Englewood, Colo. Lamp shade and tester. No. 1,395,819; Nov. 1.
- Guy, William L., Seward, Alaska. Pipe-cover. No. 1,389,868; Sept. 6; v. 290; p. 62.
- Guye, Fritz, Neuchâtel, Switzerland. Self-winding clock. No. 1,371,164; Mar. 8; v. 284; p. 313.
- Guyon, Walter S., Brooklyn, N. Y. Street-sweeper. No. 1,383,625; July 5; v. 288; p. 76.
- Guyot, Henri R., assignor to Société R. Guyot & Cie., Paris, France. Device for cooling the motors of aeroplanes or dirigible aircraft. No. 1,386,493; Aug. 2; v. 289; p. 103.
- Guyot, Walter E., Attleboro, Mass. Buckle. (Reissue.) No. 15,138; July 5; v. 288; p. 161.
- Guyot, Walter E., assignor to Morse-Andrews Company, Attleboro, Mass. Buckle. No. 1,399,343; Dec. 6.
- Guyton and Cumfer Manufacturing Company. (See McFarland, Owen D., assignor.)
- Guyver, Frank H., Stratford-on-Avon, England. Oil-indicator for motor-vehicles. No. 1,385,128; July 19; v. 288; p. 519.
- Gvosdenovich, Francois, Port Said, Egypt. Sea-carrier for mail and other articles. No. 1,370,432; Mar. 1; v. 284; p. 128.
- Gwynn, George W., Brooklyn, N. Y., assignor to Automatic Packing & Labeling Company. Container-handling device for tobacco-packaging machines. No. 1,364,990; Jan. 11; v. 282; p. 226.
- Gwynn, George W., Brooklyn, N. Y., assignor to Automatic Packing & Labeling Company, Durham, N. C. Folding device for tobacco-packaging machines. No. 1,365,399; Jan. 11; v. 282; p. 305.
- Gwynn, George W., Brooklyn, N. Y., assignor to Automatic Packing & Labeling Company. Moistening device for tobacco-packaging machines. No. 1,365,400; Jan. 11; v. 282; p. 305.
- Gwynn, Joseph M., Jr., New Orleans, La. Protractor or drafting implement. No. 1,383,803; July 5; v. 288; p. 113.
- Gwyer, Herbert J., Yonkers, N. Y. Refrigerator construction. No. 1,398,964; Dec. 6.
- Gwyer, Herbert J., Yonkers, N. Y. Leg construction. No. 1,401,772; Dec. 27.
- Gwynn, Albert R. (See Horn, Ella, assignor.)
- Gwynne, Andrew D., et al. (See Godbey, Walter H., Jr., assignor.)
- Gymnaitis, Dimitrios. (See Machado, William C., assignor.)
- Gysel, Max E., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electromagnetic brake. No. 1,368,336; Feb. 15; v. 283; p. 389.
- Gysel, Max E., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controlling device for brush-holder mechanisms. No. 1,389,137; Aug. 30; v. 289; p. 864.
- Gysel, Max E., Wilksburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Shaft-bearing. No. 1,400,055; Dec. 13.
- H. B. Corporation, The. (See Boedeker, Walter U., assignor.)
- H. C. Tack Company, The. (See Hill, Charles K., assignor.)
- H & H Machine Company. (See Marien, Charles A., assignor.)
- H & H. Patent Developing Company. (See Hebern, Edward H., assignor.)
- H-K Toy & Novelty Co., The. (See McDaniel, Walter O., assignor.)
- H. M. Manufacturing Company. (See McClintock, Charles N., assignor.)
- H. P. Patents and Processes Company. (See Hochstetter, Frederick W., assignor.)
- H. R. Manufacturing Company. (See Saxton, A. G., and Menard, assignors.)
- H. S. B. W.-Cochrane Corporation. (See Gamble, Joseph W., assignor.)
- Haack, John, Portland, Oreg. Electric lantern. No. 1,384,017; July 5; v. 288; p. 157.
- Haack, Louis. (See Gloor, W., and Haack.)
- Haack, Johann J. R., Bakersfield, Calif. Boat-transporting apparatus. No. 1,373,327; Mar. 29; v. 284; p. 895.
- Haanes, Arnt. (See Casey, W. J., and Haanes.)
- Haarmann, Friedrich, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Device for closing the tap-holes in smelting-furnaces. No. 1,401,072; Dec. 20.
- Haas, Carl, et al. (See Haas, T. J., and Blumer, assignors.)
- Haas, Herbert, Long Beach, Calif., assignor of one-half to W. L. Kann, Pittsburgh, Pa. Internal-combustion engine. No. 1,366,319; Jan. 18; v. 282; p. 524.
- Haas, Lucien L. (See MacKenzie, R. J., and Haas.)
- Haas, Nelson R., assignor to The Dayton Engineering Laboratories Company, Dayton, Ohio. Circuit-controller. No. 1,401,071; Dec. 20.
- Haas, Philip J., Omaha, Nebr. Grass-cutter. No. 1,367,380; Feb. 1; v. 283; p. 99.
- Haas, Theodore J., East Northport, and Paul Blumer, Brooklyn, assignors of one-fourth to said Theodore J. Haas, one-fourth to P. Blumer, one-fourth to C. Haas, and one-fourth to W. Haas, New York, N. Y. Cloth-stretching apparatus. No. 1,381,632; June 14; v. 287; p. 299.
- Haas, Theron A., Toledo, Ohio. Foldable child's seat for automobiles. No. 1,397,281; Nov. 15.
- Haas, Vincent M., Norristown, Pa. Brake-lever-checking device. No. 1,368,796; Feb. 15; v. 283; p. 479.
- Haas, Vincent M., Philadelphia, Pa. Draft device. No. 1,377,475; May 10; v. 286; p. 266.
- Haas, William, et al. (See Haas, T. J., and Blumer, assignors.)
- Haas, William, Company, The. (See Haas, W., and Ringelspang, assignors.)
- Haas, William, Milwaukee, Wis. Ball catcher and thrower. No. 1,375,906; Apr. 26; v. 285; p. 622.
- Haas, William, and C. W. Ringelspang, assignors to The William Haas Company, Dayton, Ohio. Radiator-valve. No. 1,382,080; June 21; v. 287; p. 444.
- Haase, Leo G., Pasadena, Calif. Adjustable shut-off box for gas and water. No. 1,370,207; Mar. 1; v. 284; p. 85.
- Haase, Leo G., Pasadena, Calif. Knockdown concrete incinerator. No. 1,372,424; Mar. 22; v. 284; p. 676.
- Haase, Leo G., Pasadena, Calif. Post. No. 1,392,577; Oct. 4.
- Habberly, Albert N., Melrose, Mass. Resuscitator. No. 1,368,254; Feb. 15; v. 283; p. 373.
- Habeeb, Wadi M., West New York, N. J., assignor to Spirocide Corporation, New York, N. Y. Medicinal compound. No. 1,365,241; Jan. 11; v. 282; p. 274.
- Habenicht, August F., Tinley Park, Ill. Acetylene-gas and pressure generator. No. 1,383,464; July 5; v. 288; p. 43.
- Haber, Henry J., assignor of thirty per cent. to P. North, thirty per cent. to G. M. Potter, and ten per cent. to W. Hoyt, Cleveland, Ohio. Machine for preparing green wood for making charcoal. No. 1,372,136; Mar. 22; v. 284; p. 620.
- Haberle, Michael F., Woodhaven, N. Y. Drawing board and stand. No. 1,372,810; Mar. 29; v. 284; p. 792.
- Häberli, Fritz, Ennetbaden, and J. Kübler, Baden, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Apparatus for the high-voltage windings of electrical machines. No. 1,387,389; Aug. 9; v. 289; p. 355.



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- Habützel-Frei, Heinrich, Zurich, Switzerland. Treating hanks of yarn with liquid. No. 1,383,300; July 5; v. 288; p. 9.
- Habrich, Petar, Philadelphia, Pa. Life-sustaining apparatus. No. 1,394,824; Oct. 25.
- Hachenberg, Louis, New York, N. Y. Pipe-union. No. 1,396,196; Nov. 8.
- Hachez, Louis. (See Frechette, J. E., and Hachez.)
- Hachmann, Frederick, St. Louis, Mo. Electric water-heater. No. 1,366,794; Jan. 25; v. 282; p. 662.
- Hachmann, Frederick, assignor to W. H. Gregg, trustee, St. Louis, Mo. Clamp. No. 1,391,828; Sept. 27; v. 290; p. 685.
- Hachmann, Frederick, St. Louis, assignor of one-fourth to D. M. Hutchinson, Ferguson, and three-eighths to H. C. Stifel, St. Louis, Mo. Piston-ring. No. 1,367,136; Feb. 1; v. 283; p. 50.
- Hachmann, Frederick, assignor of one-half to B. G. Vieth and one-fourth to D. M. Hutchinson, St. Louis, Mo. Toy vehicle. No. 1,378,023; May 17; v. 286; p. 423.
- Hachmann, Frederick, assignor of one-half to H. Stifel, St. Louis, one-eighth to D. M. Hutchinson, Ferguson, Mo., one-sixteenth to P. E. Moody, one-sixteenth to C. R. Watson, and one-sixteenth to H. A. Wright, Detroit, Mich. Joint. No. 1,367,134; Feb. 1; v. 283; p. 50.
- Hachmann, Frederick, assignor of one-half to H. C. Stifel, St. Louis, Mo., one-sixteenth to P. E. Moody, and one-sixteenth to C. R. Watson, Detroit, Mich., and one-eighth to D. M. Hutchinson, Ferguson, Mo. Piston-ring. No. 1,367,135; Feb. 1; v. 283; p. 50.
- Hacker, Horace W., Chicago, Ill. Mounted printing-plate. No. 1,385,824; July 26; v. 288; p. 736.
- Hackett, Henry, A. Smith, and C. Southall, Birmingham, England. Machine for wrapping sweetmeats and the like. No. 1,392,683; Oct. 4.
- Hackett, William, assignor of one-half to S. W. Band, Oakland, Calif. Locking-bolt. No. 1,385,001; July 19; v. 288; p. 492.
- Hacking, James T., Pawtucket, R. I. Platen-renewer. No. 1,373,559; Apr. 5; v. 285; p. 36.
- Hackney, Leslie S. (See Froelich, John, assignor.)
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Moccasin. No. 1,370,643; Mar. 8; v. 284; p. 214.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,376,537; May 3; v. 286; p. 30.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-edge-treating tool. No. 1,381,917; June 21; v. 287; p. 415.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,389,654; Sept. 6; v. 290; p. 19.
- Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,400,816; Dec. 20.
- Hadaway, John B., Swampscott and C. E. Campbell, Lynn, Mass. Aerial bomb. No. 1,383,106; June 28; v. 287; p. 693.
- Hadaway, John B., Swampscott, and T. H. Seely, Malden, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Stretching-machine. No. 1,387,430; Aug. 9; v. 289; p. 363.
- Hadaway, William S., Jr., New Rochelle, N. Y. Vapor electric heater. No. 1,373,809; Apr. 5; v. 285; p. 83.
- Hadaway, William S., Jr., New Rochelle, N. Y. Generation and distribution of heat. No. 1,383,107; June 28; v. 287; p. 693.
- Hadaway, William S., Jr., New Rochelle, N. Y. Electric steam-cooker. No. 1,383,108; June 28; v. 287; p. 694.
- Hadaway, William S., Jr., New Rochelle, N. Y. Range. No. 1,383,109; June 28; v. 287; p. 694.
- Hadaway, William S., Jr., New Rochelle, N. Y. Heating apparatus. No. 1,383,110; June 28; v. 287; p. 694.
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- Hadaway, William S., Jr., New Rochelle, N. Y., assignor to The Cutler-Hammer Mfg. Co. Carbureter. No. 1,374,649; Apr. 12; v. 285; p. 287.
- Haddad, Constantine M. (See Peters, Shafah, assignor.)
- Haddock, Arthur, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube circuits. No. 1,396,745; Nov. 15.
- Haddock, William C., et al. (See Bair, Joseph H., assignor.)
- Haddon, Walter. (See Constantinesco, George, assignor.)
- Haddon, Walter. (See Constantinesco, Gogu, assignor.)
- Hadfield, Hugh R., Akron, Ohio. Construction of walls of preformed units. No. 1,391,316; Sept. 20; v. 290; p. 508.
- Hadfield, Leo, Cairo, Ill. Traffic-signal. No. 1,371,368; Mar. 15; v. 284; p. 416.
- Hadfield Penfield Steel Company. (See Brown, Davis, assignor.)
- Hadfield, Robert A., Westminster, England. Manufacture of sound ingots and billets of special steel. No. 1,367,545; Feb. 8; v. 283; p. 190.
- Hadfield, Robert A., Westminster, England. Cap for armor-piercing projectiles. No. 1,375,452; Apr. 19; v. 285; p. 504.
- Hadfield, Robert A., Westminster, England. Manufacture of shovels, spades, and like shoveling or digging devices. No. 1,375,453; Apr. 19; v. 285; p. 504.
- Hadfield, Robert A., Westminster, and A. G. McK. Jack, Sheffield, England. Armor-piercing projectile. No. 1,398,229; Nov. 29.
- Hadfield, Robert A., Westminster, and A. G. M. Jack and A. B. H. Clerke, Sheffield, England. Manufacture of gun-tubes and like tubular bodies. No. 1,365,987; Jan. 18; v. 282; p. 459.
- Hadfield, Robert A., Westminster, A. G. McK. Jack, Sheffield, and I. B. Milne, Totley, England. Armor-piercing projectile. No. 1,381,633; June 14; v. 287; p. 300.
- Hadjisky, Joseph N., Detroit, Mich. Gas-compressor. No. 1,387,259; Aug. 9; v. 289; p. 327.
- Hadland, Carl A., Ostrander, Minn. Building-block. No. 1,377,149; May 3; v. 286; p. 146.
- Hadley, George E., and W. E. Riley, Louisville, Ky. Towel-dispensing cabinet. No. 1,380,648; June 7; v. 287; p. 61.
- Hadley, Idale L., Hartford, Conn. Bed. No. 1,400,952; Dec. 20.
- Hadley, J. M., et al. (See Roach, William H., assignor.)
- Hadley, Kaletae, Kansas City, Mo. Bust-supporter. No. 1,400,056; Dec. 13.
- Hadley, Walter C., assignor to Central Talking Machine Shop, Inc., New York, N. Y. Amusement device. No. 1,382,423; June 21; v. 287; p. 509.
- Haerberlein, Max, Mountain Lakes, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Water-turbine and the like. No. 1,396,327; Nov. 8.
- Haefele, Albert H., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Battery-terminal. No. 1,377,126; May 3; v. 286; p. 142.
- Haefele, Albert H., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Electrode-terminal. No. 1,377,127; May 3; v. 286; p. 142.
- Haefele, Albert H., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Electrode-terminal. No. 1,377,128; May 3; v. 286; p. 143.
- Haefely, Emil, Basel, Switzerland. Electric insulator. No. 1,381,189; June 14; v. 287; p. 218.
- Haegle, Louis, New Memphis, Ill. Rat, mouse, and insect trap. No. 1,379,685; May 31; v. 286; p. 886.
- Haeger, Paul. (See Haeger, R., Schraner, and Haeger.)
- Haeger, Richard, W. Schraner, and P. Haeger, Detroit, Mich. Ice-cream-cutting machine. No. 1,375,842; Apr. 26; v. 285; p. 609.
- Haenner, Charles T., Cleveland, Ohio. Non-skid device. No. 1,398,719; Nov. 29.
- Haepfner, John F. (See O'Neal, J., and Haepfner.)
- Haerry, John H., Milwaukee, Wis. Filter and filtering. No. 1,384,754; July 19; v. 288; p. 440.
- Haeseler, Charles H., Chicago, Ill. Pneumatic hammer. No. 1,372,348; Mar. 22; v. 284; p. 661.
- Haesloop, George C. (See Rundell, Raymond R., assignor.)
- Hafelinger, Frederick E., Weehawken, N. J. Warning-signal for tire deflation. No. 1,389,655; Sept. 6; v. 290; p. 19.
- Hafer, Adam P. (See Schellhamer, Elmer E., assignor.)
- Hafemeister, William C., assignor to The Metal Parts Manufacturing Company, Cleveland, Ohio. Self-opening die-head. No. 1,394,549; Oct. 25.
- Hafemeister, William C., assignor to G. H. Scott Machine Company, Cleveland, Ohio. Thread-cutting apparatus. No. 1,396,572; Nov. 8.
- Haffner, Julius A., Lima, Mont. Emergency axle attachment. No. 1,379,558; May 24; v. 286; p. 788.
- Hafstrom, John R., Morocco, Ind. Air-pump. No. 1,386,567; Aug. 2; v. 289; p. 118.
- Hafstrom, William J., Chicago, Ill. Water-craft. No. 1,372,749; Mar. 29; v. 284; p. 779.
- Hagaman, Edwin A., Madelia, Minn. Form of artificial tooth and means or method of anchoring same into position in the mouth. No. 1,382,830; June 28; v. 287; p. 641.
- Hagaman, Joseph P., Lancaster, Wash. Driving connection. No. 1,380,953; June 7; v. 287; p. 120.
- Hagan Corporation, The. (See Hopwood, J. M., and Peebles, assignors.)
- Hagan Corporation, The. (See Hopwood, John M., assignor.)
- Hagan, George J., Pittsburgh, Pa. Furnace. No. 1,382,503; June 21; v. 287; p. 525.
- Hagan, James. (See Horn, W., and Hagan.)
- Hagan, Stanley L., Butte, Mont. Register for cameras. No. 1,389,827; Sept. 6; v. 290; p. 54.
- Hagberg, Johan O., Christiania, Norway. Button. No. 1,367,963; Feb. 8; v. 283; p. 269.
- Hage, Leonell R., Fairfield, Mont. Door-stop. No. 1,374,731; Apr. 12; v. 285; p. 302.
- Hage, Robert R., Minneapolis, Minn. Removable fence-post. No. 1,378,948; May 24; v. 286; p. 673.
- Hagedorn, William F., St. Louis, Mo. Wrench. No. 1,369,804; Mar. 1; v. 284; p. 10.



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- Hagelstein, Christian H. T., assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing-machine. No. 1,395,274; Nov. 1.
- Hageman, Nelson R., Reno, Nev. Chemical-retainer for sewer-pipes. No. 1,383,938; July 5; v. 288; p. 141.
- Hagen, Bernhard E., assignor of one-half to W. E. Smith, Minneapolis, Minn. Hot-air heater for automobiles. No. 1,400,815; Dec. 20.
- Hagen, Carl E., Pelican Rapids, Minn. Dust-remover for threshing-machines. No. 1,368,140; Feb. 8; v. 283; p. 303.
- Hagen, Harold F., assignor to B. F. Sturtevant Company, Boston, Mass. Fan-chart. No. 1,378,107; May 17; v. 286; p. 439.
- Hager, Andrew J., Quincy, Mass. Tool. No. 1,377,829; May 10; v. 286; p. 334.
- Hager, Robert, St. Louis, Mo. Fire-starting element. No. 1,366,258; Jan. 18; v. 282; p. 512.
- Hager, William R., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Curtain-stretcher. No. 1,371,025; Mar. 8; v. 284; p. 287.
- Hagerman, Charles W., Champaign, Ill. Wall-racks for clothes. No. 1,367,697; Feb. 8; v. 283; p. 219.
- Hagerman, Charles W., Champaign, Ill. Clothes-drier. No. 1,400,359; Dec. 13.
- Hagerstrom, John A., Cranford, N. J., assignor to Victor Typewriter Company, Scranton, Pa. Ribbon-movement for typewriters. No. 1,397,513; Nov. 22.
- Hagerty, David F., Sioux City, Iowa. Piano-mover. No. 1,388,562; Aug. 23; v. 289; p. 696.
- Hagerty, Michael J., St. Louis, Mo. Automatic safety appliance for motor-vehicles. No. 1,391,952; Sept. 27; v. 290; p. 710.
- Hagey, J. Clarke, Chicago, and A. Swensen, Cicero, assignors to The Cable Company, Chicago, Ill. Indicating device usable with music-recording mechanism. No. 1,392,640; Oct. 4.
- Hagey, John, et al. (See Cozens, George H., assignor.)
- Haggard & Marcusson Co. (See Anderson, William B., assignor.)
- Häggblom, John, Manistique, Mich. Cable-coupling. No. 1,370,963; Mar. 8; v. 284; p. 275.
- Haggenmiller, George T., assignor of one-half to J. Warren, San Francisco, Calif. Adjustable table-leg. No. 1,387,390; Aug. 9; v. 289; p. 355.
- Haggerty, Eugene, Clifton Springs, assignor of one-half to E. F. Needham, Phelps, N. Y. Grain-drill. No. 1,370,108; Mar. 1; v. 284; p. 67.
- Haggerty, Joseph A., Philadelphia, Pa. Wheel-mounting for motorcycles. No. 1,375,149; Apr. 19; v. 285; p. 446.
- Haggett, Frank, assignor, by mesne assignments, to The Police Safety Automatic Automobile Locking Company, Philadelphia, Pa. Automobile-lock. No. 1,367,381; Feb. 1; v. 283; p. 99.
- Hagley, Edward O. (See Hagley, Wilbert C. and E. O.)
- Hagley, Wilbert C. and E. O., Huntington, W. Va. Lid-operating device. No. 1,384,254; July 12; v. 288; p. 255.
- Haglund, Gustaf, Falun, Sweden. Separating and refining metals. No. 1,375,631; Apr. 19; v. 285; p. 537.
- Hagman, William J., Philadelphia, Pa., assignor to Niles-Bement-Pond Company, New York, N. Y. Shoe-cleaning mechanism for machine-tools. No. 1,370,743; Mar. 8; v. 284; p. 233.
- Hagstrom, Albert G., East Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Wire-bending machine. No. 1,377,150; May 3; v. 286; p. 147.
- Hagstrom, Albert G., East Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn. Trimmer. No. 1,389,302; Aug. 30; v. 289; p. 898.
- Hagstrom, Carl J., Glen Cove, N. Y. Concealed French-casement lock. No. 1,368,141; Feb. 8; v. 283; p. 303.
- Hague, Floyd T., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Commutating means for dynamo-electric machines. No. 1,371,620; Mar. 15; v. 284; p. 466.
- Hague, Floyd T., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Winding for dynamo-electric machines. No. 1,395,409; Nov. 1.
- Hahn, Albert W., New York, N. Y. Cyanid process. No. 1,397,684; Nov. 22.
- Hahn, Arno, Boulder, Mont. Water-circulator. No. 1,399,617; Dec. 6.
- Hahn, Clarence L., Baltimore, Md. Box-opener. No. 1,399,618; Dec. 6.
- Hahn, Francis C., Newton, Mass. Auxiliary device for talking-machines. No. 1,394,825; Oct. 25.
- Hahn, George F., Cleveland, Ohio. Table. No. 1,400,432; Dec. 13.
- Hahn, Harry A., Greenville, Ohio. Battery-plate-burning rack. No. 1,391,649; Sept. 20; v. 290; p. 575.
- Hahn, Herbert W., Des Moines, Iowa. Ironing-machine. No. 1,372,349; Mar. 22; v. 284; p. 662.
- Hahn, Hugo, and B. Love, New York, N. Y. Safety-envelop. No. 1,369,277; Feb. 22; v. 283; p. 611.
- Hahn, Hugo J., Chicago, Ill. Automobile tool-box. No. 1,368,432; Feb. 15; v. 283; p. 408.
- Hahn, John, Los Angeles, Calif. Deep-well pump. No. 1,378,949; May 24; v. 286; p. 673.
- Hahn, Louis L. (See Hosking, C. and Hahn.)
- Hahn, Samuel O., Lincoln, Neb., assignor to The Chrome Leather and Rubber Tire Company, Inc., Pueblo, Colo. Treating leather. No. 1,369,240; Feb. 22; v. 283; p. 604.
- Hahn, Wendel, New York, N. Y. Clothesline-pulley. No. 1,373,130; Mar. 29; v. 284; p. 855.
- Hahn, William J., Philadelphia, Pa. Current-saving device. No. 1,377,476; May 10; v. 286; p. 267.
- Hahne & Company. (See Dorr, Harry A., assignor.)
- Hahnemann, Walter, Kiel, assignor to Firm Signal Gesellschaft M. B. H., Kiel, Germany. Underwater wave telegraphy. No. 1,377,129; May 3; v. 286; p. 143.
- Hahnemann, Walter, Kitzberg, near Kiel, and H. Hecht, Kiel, Germany. Receiving device for subaqueous sound-signals. No. 1,391,681; Sept. 27; v. 290; p. 655.
- Haig, Ottar T., Jamaica Plain, Mass. Valve-grinding tool. No. 1,391,892; Sept. 27; v. 290; p. 698.
- Haight, Harry V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Percussive tool. No. 1,391,628; Sept. 20; v. 290; p. 571.
- Haight, Harry V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Hammer-drill. No. 1,391,629; Sept. 20; v. 290; p. 571.
- Haight, Loyd R., Spokane, Wash. Amalgam-mixer for dentists. No. 1,377,680; May 10; v. 286; p. 304.
- Hails, Edward T., Montgomery, Ala. Cleaning phonograph-records. No. 1,378,344; May 17; v. 286; p. 484.
- Hain, James C., Los Angeles, Calif. Concrete-form. No. 1,392,496; Oct. 4.
- Haines, Clarence S., Indianapolis, Ind. Hose-clamp. No. 1,390,701; Sept. 13; v. 290; p. 321.
- Haines, Edward P., Philadelphia, Pa., assignor to Patent Appliance Company. Mechanism for operating sectional doors. No. 1,374,502; Apr. 12; v. 285; p. 258.
- Haines, Frederick W., township of Sandwich East, Ontario, Canada, and F. L. Sorensen, assignors, by direct and mesne assignments, to The Metal Protection Laboratory, Detroit, Mich. Depositing a metallic coating on various metal articles or objects. No. 1,397,514; Nov. 22.
- Haines, George B., Chicago, Ill. Vacuumizing apparatus. No. 1,395,915; Nov. 1.
- Haines, Joseph, Claypool, Ind. Seed-planter. No. 1,399,475; Dec. 6.
- Haines, Jones & Cadbury. (See Sharp, Joseph W., Jr., assignor.)
- Haines Products Company, The. (See Haines, Stacey A., assignor.)
- Haines, Robert E., assignor to Landers, Frary & Clark, New Britain, Conn. Faucet. No. 1,378,539; May 17; v. 286; p. 522.
- Haines, Stacey A., assignor to The Haines Products Company, Cleveland, Ohio. Dripless faucet. No. 1,397,251; Nov. 15.
- Haisley, Charles A., Richmond, Ind. Hog-oller. No. 1,390,611; Sept. 13; v. 290; p. 303.
- Haitt, Alfred. (See Borland, Charles M., assignor.)
- Hajian, Aram, New York, N. Y. Water-faucet attachment. No. 1,366,795; Jan. 25; v. 282; p. 662.
- Hake, Charles F., Jr., Cincinnati, Ohio. Machine for soldering the joints of sheet-metal cans. No. 1,377,339; May 10; v. 286; p. 240.
- Hake, Charles F., Jr., and A. Mill, Sr., Cincinnati, Ohio; said Mill assignor to said Hake. Machine for forming can-bodies. No. 1,389,349; Aug. 30; v. 289; p. 907.
- Hake, George, St. Louis, Mo. Garment-supporter. No. 1,368,626; Feb. 15; v. 283; p. 446.
- Hake, John N., Kirklín, Ind. Building construction. No. 1,400,284; Dec. 13.
- Hakes, Hudson W., Millbury, assignor to W. C. Watson, Leicester, Mass. Loom-shuttle. No. 1,380,649; June 7; v. 287; p. 61.
- Halaska, Charles, Jr., Milwaukee, Wis. Puttying-tool. No. 1,390,126; Sept. 6; v. 290; p. 115.
- Halbach, John F., Philadelphia, Pa. Auto-wheel protector. No. 1,393,528; Oct. 11.
- Halbleib, Edward A., assignor to North East Electric Company, Rochester, N. Y. Switch-lock. No. 1,395,493; Nov. 1.
- Halbleib, Edward A., and T. L. Lee, assignors to North East Electric Company, Rochester, N. Y. Ignition apparatus. No. 1,386,779; Aug. 9; v. 289; p. 233.
- Halbritter, John, assignor to Walworth Manufacturing Company, Boston, Mass. Making metal plugs. No. 1,386,106; Aug. 2; v. 289; p. 29.
- Haldeman, James C., assignor to The Silver Manufacturing Company, Salem, Ohio. Feed mechanism. No. 1,375,694; Apr. 26; v. 285; p. 582.
- Haldeman, Paul C., assignor to Luckens Steel Company, Coatesville, Pa. Stripper for rolling-mills. No. 1,401,773; Dec. 27.
- Hale, Frank A., assignor to Hale Specialty Company, Chicago, Ill. Calendar pad and holder therefor. No. 1,389,754; Sept. 6; v. 290; p. 39.
- Hale, Frederick F., Medford, Mass. Detachable valve-handle. No. 1,398,263; Nov. 29.
- Hale, Harry M., Duquesne, Pa. Dirigible headlight. No. 1,384,560; July 12; v. 288; p. 319.



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- Hale, Robert J., and W. T. Doyle, assignors of 45 per cent. to said Hale, one-tenth to J. A. Wilmore, and F. H. Ryan, and 45 per cent. to C. Doyle, Lexington, Ky. Automobile-lock. No. 1,375,386; Apr. 19; v. 285; p. 491.
- Hale, Russell E. (See Seward, H. L., and Hale.)
- Hale, Samuel. (See Bell, Charles E., assignor.)
- Hale Specialty Company. (See Hale, Frank A., assignor.)
- Hale, William D., Spokane, Wash. Automobile-bed. No. 1,365,035; Jan. 11; v. 282; p. 236.
- Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Drag-scraper. No. 1,377,830; May 10; v. 286; p. 334.
- Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Rope-sheave and support. No. 1,398,855; Nov. 29.
- Hale, William E., Fort Washington, assignor to R. H. Beaumont Company, Philadelphia, Pa. Drag-scraping apparatus. No. 1,398,897; Nov. 29.
- Hales, Walter W., New York, and A. Hine, Cedarhurst, N. Y.; said Hine assignor to said Hales. Process and apparatus for improving combustion in explosive-engines. No. 1,391,630; Sept. 20; v. 290; p. 572.
- Haley, Arthur L., Seattle, Wash. Sawing taper logs. No. 1,393,529; Oct. 11.
- Haley, Charles B., Oklahoma, Okla. Mineral-oil emulsion. No. 1,384,460; July 12; v. 288; p. 298.
- Haley, Dennis, Mount Pleasant, Iowa. Hen's nest. No. 1,378,785; May 17; v. 286; p. 569.
- Haley, John A. (See Lapp, J. C., and Haley.)
- Haley, Timothy, Springfield, Ohio. Gas regulator and safety device. No. 1,393,217; Oct. 11.
- Halferty, Peter F., Aberdeen, Wash. Shock-absorber. No. 1,392,150; Sept. 27; v. 290; p. 750.
- Halfpenny, Herbert, Brantford, Ontario, Canada. Amusement device. No. 1,393,117; Oct. 11.
- Halicki, John, Dunkirk, N. Y. Fruit-gatherer and tree-trimmer. No. 1,370,208; Mar. 1; v. 284; p. 85.
- Halicki, John, Dunkirk, N. Y. Tree-trimmer. No. 1,375,091; Apr. 19; v. 285; p. 434.
- Halket, William, assignor to L. D. Van Valkenburg, Holyoke, Mass. Spring-clip. No. 1,387,978; Aug. 16; v. 289; p. 523.
- Hall, A. J., Pittsburgh, and P. L. Mardis, Swissvale, Pa., assignors to Westinghouse Electric & Manufacturing Company. System of control. No. 1,365,317; Jan. 11; v. 282; p. 289.
- Hall, Akos J., Cleveland, Ohio. Stair structure. No. 1,385,209; July 19; v. 288; p. 535.
- Hall, Alexander, Portsmouth, Ohio. Combination knife and saw. No. 1,399,476; Dec. 6.
- Hall, Arthur E., Omaha, Nebr., assignor to American Smelting and Refining Company, New York, N. Y. Electrolytic production of zinc. No. 1,380,711; June 7; v. 287; p. 73.
- Hall, Arthur E., Omaha, Nebr., assignor to American Smelting and Refining Company, New York, N. Y. Purification of zinc-bearing solutions. No. 1,380,712; June 7; v. 287; p. 74.
- Hall, Arthur J., West Hartford, Conn. Coating reticulated forms. No. 1,396,834; Nov. 15.
- Hall, Arthur J., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,365,316; Jan. 11; v. 282; p. 289.
- Hall, Arthur J., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,371,558; Mar. 15; v. 284; p. 454.
- Hall, Arthur J., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,374,562; Apr. 12; v. 285; p. 270.
- Hall, Arthur J., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,393,439; Oct. 11.
- Hall, Arthur J., and C. C. Whittaker, Wilkesburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Demonstrating device. No. 1,378,024; May 17; v. 286; p. 423.
- Hall, Athelstan A., London, England. Wireless signaling apparatus. No. 1,384,525; July 12; v. 288; p. 311.
- Hall, Benjamin W., Manchester, N. H. Swivel connection. No. 1,401,073; Dec. 20.
- Hall, Bicknell, Taunton, Mass. Leather-burnishing mechanism. No. 1,382,504; June 21; v. 287; p. 525.
- Hall, C. M., Lamp Company. (See Watson, Harvey L., assignor.)
- Hall, Chalmers G., Washington, D. C. Drift-compensating device for airships. No. 1,385,784; July 26; v. 288; p. 728.
- Hall, Chalmers G., Washington, D. C. Drift-compensating device. No. 1,385,825; July 26; v. 288; p. 736.
- Hall, Charles C., assignor to Banner Rock Products Company, Alexandria, Ind. Yielding mat construction. No. 1,387,391; Aug. 9; v. 289; p. 356.
- Hall, Charles G., F. A. Devereaux, and A. R. Cobey, International Falls, Minn. Radiator-carrier. No. 1,396,328; Nov. 8.
- Hall, Charles P., near Highland Springs, Va. Governor for gas-engines. No. 1,394,826; Oct. 25.
- Hall, Charles T., Buffalo, N. Y. Card-shuffler. No. 1,380,898; June 7; v. 287; p. 110.
- Hall, Charles W., Wakefield, and F. E. Wheeler, Belmont, assignors to Henry P. Miller & Sons Piano Company, Boston, Mass. Bracket for grand-piano actions. No. 1,391,054; Sept. 20; v. 290; p. 455.
- Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Constant-speed motor. No. 1,386,861; Aug. 9; v. 289; p. 250.
- Hall, Frank A., & Sons. (See McIntosh, Burnett, assignor.)
- Hall, Frank B., Geneva, Ohio. Line and surface level. No. 1,369,652; Feb. 22; v. 283; p. 685.
- Hall, Frederick H., Holford, near Bridgwater, England. Vehicle-top. No. 1,392,274; Sept. 27; v. 290; p. 775.
- Hall, Frederick H., Holford, near Bridgwater, England. Vehicle-top. No. 1,392,275; Sept. 27; v. 290; p. 775.
- Hall, Frederick N. (See Howe, W. K., Henry, and Hall.)
- Hall, Frederick W., London, England. Coin-collecting means for telephone services. No. 1,361,550; Jan. 4; v. 282; p. 97.
- Hall, Frederick W., London, England. Coin-collecting means for telephone services. No. 1,364,630; Jan. 4; v. 282; p. 112.
- Hall, George F., Providence, R. I. Launching device for lifeboats. No. 1,389,869; Sept. 6; v. 290; p. 62.
- Hall, George H., Henry, Ill. Animal-crate. No. 1,368,209; Feb. 8; v. 283; p. 317.
- Hall, George S., Chico, Calif. Radiator-testing apparatus. No. 1,384,614; July 12; v. 288; p. 331.
- Hall, George U., and J. B. Truitt, assignor of one-fourth to A. P. Weidman and one-fourth to L. Hall, Winnemucca, Nev. Gas-gun. No. 1,383,111; June 28; v. 287; p. 694.
- Hall, Griffin L. (See Coats, Edward O., assignor.)
- Hall, Harry J. (See Robinson, George H., assignor.)
- Hall, Herbert S., Ellsworth, Me. Hand-operated implement. No. 1,399,113; Dec. 6.
- Hall, Holmes. (See Kelly, J. G., Pringle, and Hall.)
- Hall, Hugh A., Philadelphia, Pa. Automatic restaurant. No. 1,389,656; Sept. 6; v. 290; p. 20.
- Hall, Ina McC., Gadsby, Alberta, Canada. Toy. No. 1,368,718; Feb. 15; v. 283; p. 464.
- Hall, Iphus H., Toronto, Ontario, Canada. Stocking-toe guard. No. 1,368,255; Feb. 15; v. 283; p. 373.
- Hall, J. Robert. (See Tiller, D. M., Hall, Talbot, and Hazen.)
- Hall, James A. (See McCutchen, U. R., Bryden, and Hall.)
- Hall, James D. (See Needham, Edward F., assignor.)
- Hall, James R., Winfield, La. Oil-well screen and liner-cleaner. No. 1,379,815; May 31; v. 286; p. 910.
- Hall, Jerry L. (See Chamberlin, Guy B., assignor.)
- Hall, John A. (See Soper, C. P., and Hall.)
- Hall, John A., Bayside, assignor to Western Electric Company, Incorporated, New York, N. Y. Selector. No. 1,374,201; Apr. 12; v. 285; p. 200.
- Hall, John A., Bayside, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,383,804; July 5; v. 288; p. 114.
- Hall, John A., Bayside, assignor to Western Electric Company, Incorporated, New York, N. Y. Party-line metering system for telephone-exchanges. No. 1,383,805; July 5; v. 288; p. 114.
- Hall, John W., Feltham, England. Mechanism for converting rotary to reciprocating movement. No. 1,385,002; July 19; v. 288; p. 492.
- Hall, Joseph A., assignor of one-half to L. E. Henry, New Britain, Conn. Anode. No. 1,366,534; Jan. 25; v. 282; p. 610.
- Hall, Julius R., Oak Park, assignor, by mesne assignments, to The Booth Electric Furnace Co., Chicago, Ill. Furnace-door. No. 1,366,072; Jan. 18; v. 282; p. 475.
- Hall, Joseph P., Sanford, Fla. File-basket. No. 1,384,755; July 19; v. 288; p. 441.
- Hall, Leroy W., Minneapolis, Minn. Paint-guard. No. 1,386,706; Aug. 9; v. 289; p. 218.
- Hall, Leslie S., Brantford, Ontario, Canada. Cutter-head. No. 1,384,524; July 12; v. 288; p. 312.
- Hall, Louise, et al. (See Hall, G. U., and J. B. Truitt, assignors.)
- Hall, Mary E., Chicago, Ill. Electric needle. No. 1,394,171; Oct. 18.
- Hall, Mary L., Louisville, Ky. Collapsible wardrobe. No. 1,394,007; Oct. 18.
- Hall, Newton L., Salt Lake City, Utah. Discharge-spout for ball or tube mills. No. 1,369,653; Feb. 22; v. 283; p. 685.
- Hall, Oliver, and V. P. Row, Coniston, Ontario, Canada. Means for controlling the direction of cutting drill-holes in rock. No. 1,380,954; June 7; v. 287; p. 131.
- Hall Printing Press Company, et al. (See White, Joseph, assignor.)
- Hall, Ray E., Chicago, Ill., assignor to Hall Research Corporation. Method and means for translating energy variations. No. 1,378,345; May 17; v. 286; p. 484.
- Hall Research Corporation. (See Hall, Ray E., assignor.)
- Hall, Richard I. (See Valentine, Rollo H., assignor.)
- Hall, Robert F., Birmingham, England. Manufacture of glass articles. No. 1,393,118; Oct. 11.



- Hall, Robert S., Detroit, Mich. Signal for motor-vehicles No. 1,381,918; June 21; v. 287; p. 415.
- Hall, Roswell G., Dorchester, and A. Birkholm, Boston, Mass. Cleaning-rod for firearms. No. 1,386,862; Aug. 9; v. 289; p. 250.
- Hall, Roy A., Lancaster, Pa. Cam-shaft-bushing inserter and extractor. No. 1,369,172; Feb. 22; v. 283; p. 591.
- Hall, Samuel N., assignor to M. E. Layne, Los Angeles, Calif. Pump mechanism. No. 1,388,427; Aug. 23; v. 289; p. 670.
- Hall Scott Motor Car Company. (See Ruckstell, Glover E., assignor.)
- Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Vacuum-pump. No. 1,374,650; Apr. 12; v. 285; p. 287.
- Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking machinery. No. 1,398,230; Nov. 29.
- Hall, Sidney W., San Antonio, Tex. Gradometer. No. 1,378,540; May 17; v. 286; p. 522.
- Hall Switch & Signal Co. (See Blake, Eli J., assignor.)
- Hall, Walter B., and T. Merrill, Stratton, Nebr. Tractor. No. 1,387,708; Aug. 16; v. 289; p. 470.
- Hall, Walter L., Los Angeles, Calif. Making pictures. No. 1,372,811; Mar. 29; v. 284; p. 792.
- Hall, Wesley F. (See Taylor, F. T., and Hall.)
- Hall, Willard L., Howard, Kans. Flytrap. No. 1,381,824; June 14; v. 287; p. 337.
- Hall, William A., Yonkers, N. Y., assignor of one-half to C. H. Florandin, Westfield, N. J. Alternating-current arc-welding system. No. 1,364,857; Jan. 4; v. 282; p. 156.
- Hall, William H. (See Hinsdale, W. E., and Hall.)
- Hall, William H., Cicero, assignor to Kohler Die & Specialty Company, De Kalb, Ill. Card-file. No. 1,368,925; Feb. 15; v. 283; p. 504.
- Hall, William J., Ringgold, La. Planter. No. 1,396,683; Nov. 8.
- Hall, William L. (See Armstrong, Harry Y., assignor.)
- Hall, Zachariah A., Hespeler, Ontario, Canada. Stove or range. No. 1,376,689; May 3; v. 286; p. 58.
- Halladay, Fred G., Appleton, assignor to Safety Truck Brake Co., Waukesha, Wis. Truck-brake. No. 1,375,150; Apr. 19; v. 285; p. 446.
- Halladay, Lewis P., Sreator, Ill. Attachment for bumper supports. No. 1,364,878; Jan. 11; v. 282; p. 204.
- Halladay, Lewis P., Decatur, Ill. Bumper bar. No. 1,377,340; May 10; v. 286; p. 241.
- Halladay, Lewis P., Decatur, Ill. Bumper-bracket. No. 1,385,679; July 26; v. 288; p. 707.
- Halladay, Lewis P., Decatur, Ill. Double bumper-bar. No. 1,395,045; Oct. 25.
- Hallam, Edwin A., Portland, Oreg. Motor-truck. No. 1,387,392; Aug. 9; v. 289; p. 356.
- Hallam, Walter E., Pawtucket, R. I. Lingerie-clasp. No. 1,385,614; July 26; v. 288; p. 694.
- Halleck, Frank A., Oak Park, Ill., assignor to Sullivan Machinery Company. Heat-exchange device. No. 1,401,717; Dec. 27.
- Hallee, Onesime J., Chisholm, Me. Dam construction. No. 1,392,414; Oct. 4.
- Haller, Frederick C., Pittsburgh, Pa. Oven-wall construction. No. 1,378,346; May 17; v. 286; p. 484.
- Haller, Herbert L. (See Adams, E. Q., and Haller.)
- Haller, John, Brooklyn, N. Y. Horseshoe. No. 1,397,046; Nov. 15.
- Haller, Kurth, Essen, assignor to Fried. Krupp, Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with pedestal-mounting. No. 1,371,891; Mar. 15; v. 284; p. 517.
- Haller, Kurth, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Pivot-gun. No. 1,373,962; Apr. 5; v. 285; p. 114.
- Hallgren, Gösta, Falköping-Ranten, Sweden. Calipers, dividers, or the like. No. 1,367,776; Feb. 8; v. 283; p. 234.
- Halliburton, Erle P., New Wilson, Okla. Method and means for cementing oil-wells. No. 1,369,891; Mar. 1; v. 284; p. 26.
- Halliday, George, Elyria, Ohio. Safety-fender. No. 1,368,142; Feb. 8; v. 283; p. 304.
- Halliday, Robert T., Cross, Blackwood, Scotland. Lawn-mower. No. 1,379,559; May 24; v. 286; p. 788.
- Halliwell, Arthur, Cleveland, Ohio. Adjustable auto-lamp. No. 1,401,153; Dec. 27.
- Hallock-Greenwalt, Mary, Philadelphia, Pa. Notation for indicating lighting effects. No. 1,385,944; July 26; v. 288; p. 759.
- Hallock, James E., Swampscott, assignor of one-half to Lever Brothers Company, Cambridge, Mass. Weighing-machine. No. 1,366,449; Jan. 25; v. 282; p. 593.
- Hallock, Raymond, G., Seattle, Wash. Punch-centering device. No. 1,388,110; Aug. 16; v. 289; p. 549.
- Hallowell, Howard T., Philadelphia, Pa. Metal bench-leg. No. 1,379,623; May 31; v. 286; p. 875.
- Hallowell, John W. (See McGrath, P. J., and Hallowell.)
- Halstead, John, New York, N. Y. Flying-machine. No. 1,364,752; Jan. 4; v. 282; p. 136.
- Halvarson, Peter W., Black Diamond, Alberta, Canada. Pocket-knife. No. 1,365,487; Jan. 11; v. 282; p. 322.
- Hallwood, Henry S., assignor to The City National Bank, Columbus, Ohio. Cash-register. No. 1,385,540; July 26; v. 288; p. 678.
- Halm, Karl, Los Angeles, Calif. Toy cradle-bed wagon. No. 1,396,039; Nov. 8.
- Halmer, Otto F., Los Angeles, Calif. Film-developer. No. 1,381,548; June 14; v. 287; p. 284.
- Halpen, Edward E., assignor of one-half to A. Grant Weiser, Los Angeles, Calif. Lock. No. 1,367,698; Feb. 8; v. 283; p. 219.
- Halpern, Carl. (See Zeidler, F. W., and Halpern.)
- Halpern, Carl, Newark, N. J. Safety appliance for vehicles. No. 1,401,774; Dec. 27.
- Halpern, L. N., and L. Goldstein, New York, N. Y. Combination dental film-mount and diagnosis-sheet. No. 1,388,947; Aug. 30; v. 289; p. 826.
- Halpin, Abraham, New York, N. Y. Display-stand. No. 1,369,742; Feb. 22; v. 283; p. 702.
- Halset, Christ, assignor to Consolidated Wafer Company, Chicago, Ill. Ice-cream-cone machine. No. 1,384,461; July 12; v. 288; p. 299.
- Halseth, Edwin A., et al. (See Boe, Edd, assignor.)
- Halseth, Henry E., Virginia, Minn. Pen retainer and releaser for penholders. No. 1,381,549; June 14; v. 287; p. 285.
- Halseth, Henry E., Virginia, Minn. Collar-holder. No. 1,384,832; July 19; v. 288; p. 457.
- Halsey, Arthur S., Washington, D. C., assignor to The Government of the United States. Ordnance. No. 1,369,278; Feb. 22; v. 283; p. 611.
- Halsey, William S., Dover, N. J. I-beam trolley. No. 1,393,015; Oct. 11.
- Halstead, Eugene I., Plainville, Wis. Clock and call bell. No. 1,390,127; Sept. 6; v. 290; p. 115.
- Halstead, Hobart, Buffalo, N. Y. Agitator. No. 1,387,709; Aug. 16; v. 289; p. 471.
- Halstead, Joseph L. (See Primmer, B. J., and Halstead.)
- Halt, Charles H., New Haven, assignor to Non Explosive Appliance Company, Fort Wayne, Ind. Oil-stove. No. 1,364,631; Jan. 4; v. 282; p. 112.
- Halt, Charles H., New Haven, assignor to Non-Explosive Appliance Company, Fort Wayne, Ind. Butter-making machine. No. 1,388,639; Aug. 23; v. 289; p. 711.
- Halter, Carl, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,396,746; Nov. 15.
- Haluska, Andrew, Whiting, Ind. Provision-safe support. No. 1,401,775; Dec. 27.
- Halvorsen, Hans N., Vineland, N. J., assignor to Kimble Glass Company, Chicago, Ill. Sorting-machine. No. 1,375,387; Apr. 19; v. 285; p. 491.
- Halvorsen, Herman G., Los Angeles, Calif. Fare-recording and transfer-issuing machine. No. 1,384,130; July 12; v. 28; p. 230.
- Halvorsen, Lewis H., Miller, Iowa. Wagon-rack. No. 1,381,634; June 14; v. 287; p. 300.
- Halvorsen, Birger F. (See Aannerud, S. A., and Halvorsen.)
- Halvorsen, Birger F., Christiania, Norway. Explosive. No. 1,375,588; Apr. 19; v. 285; p. 529.
- Halvorsen, Halbert B., Chicago, Ill., assignor to Sullivan Machinery Company. Air-lift booster. No. 1,398,550; Nov. 29.
- Halvorsen, Halbert B., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor-unloading mechanism. No. 1,401,944; Dec. 27.
- Halvorsen, Ole G., Chicago, Ill., F. S. Hudson, Kansas City, Mo., and E. G. Rhoads, Oak Park, assignors to Winslow Boiler & Engineering Company, Chicago, Ill. Burner. No. 1,383,719; July 5; v. 288; p. 96.
- Halvorson, Charles G., Brandt, S. D. Automobile-pull-out mechanism. No. 1,380,205; May 31; v. 286; p. 984.
- Halvorson, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Flood-light. No. 1,371,761; Mar. 15; v. 284; p. 492.
- Halvorson, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Protective device for incandescent lamps. No. 1,379,560; May 24; v. 286; p. 788.
- Halvorson, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Metal mirror. No. 1,394,085; Oct. 18.
- Halvorson, Cromwell A. B., Jr., Lynn, Mass. Headlight-reflector. No. 1,394,896; Oct. 25.
- Halvorson, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Lighting unit. No. 1,400,817; Dec. 20.
- Hamacheck, Frank, Kewaunee, Wis. Tailings-separator. No. 1,390,781; Sept. 13; v. 290; p. 337.
- Hamacher, Howard A., Richmond, Mo. Lid-support. No. 1,372,503; Mar. 22; v. 284; p. 691.
- Hamann, William H. C., Jr., Snyder, Nebr. Wheel-guard for wheeled disk harrows. No. 1,388,814; Aug. 23; v. 289; p. 745.
- Hambeuchen, Carl, Belleville, Ill., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Battery hand-lamp. No. 1,377,477; May 10; v. 286; p. 267.
- Hambiet, Marcia C., Salem, Mass. Hand-protection device. No. 1,391,108; Sept. 20; v. 290; p. 466.
- Hambly, Frederick P. (See Lellis, R. W., and Adams, assignors.)
- Hambuechen, Carl, Belleville, Ill., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Battery hand-lamp. No. 1,365,988; Jan. 18; v. 282; p. 159.
- Hambuechen, Carl, Belleville, Ill., assignor to National Carbon Company, Inc. Dry cell. No. 1,375,632; Apr. 19; v. 285; p. 538.



*Alphabetical list of patentees—Continued.*

- Hambuechen, Carl, Belleville, Ill., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Carbon-cutting machine. No. 1,384,756; July 19; v. 288; p. 441.
- Hambuechen, Carl, Belleville, Ill., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Hand-lamp. No. 1,388,948; Aug. 30; v. 289; p. 827.
- Hamel, Charles W., St. Louis, Mo. Game apparatus. No. 1,376,874; May 3; v. 286; p. 94.
- Hamel, Oscar C., Peabody, Mass. Gearing. No. 1,391,542; Sept. 20; v. 290; p. 554.
- Hamel Shoe Machinery Company. (See Angell, Otis R., assignor.)
- Hamel Shoe Machinery Company. (See Lancaster, John T., assignor.)
- Hamel Shoe Machinery Company. (See Mackey, Jay A., assignor.)
- Hamel Shoe Machinery Company. (See Perkins, James O., assignor.)
- Hamel Shoe Machinery Company. (See Pettengill, George M., assignor.)
- Hamel Shoe Machinery Company. (See Reardon, Fred A., assignor.)
- Hamel Shoe Machinery Company. (See Reed, James H., assignor.)
- Hamel Shoe Machinery Company. (See Scott, John E., assignor.)
- Hamel Shoe Machinery Company. (See Valois, Félix E., assignor.)
- Hamel Shoe Machinery Company. (See Westover, Herbert R., assignor.)
- Hamer, John F., Pukwana, S. D. Vaporizer. No. 1,385,680; July 26; v. 288; p. 707.
- Hamer, Leland S. (See McAlvay, B. D., Hamer, and Deakens.)
- Hamerski, John, Goodyear, Conn. Loom-temple. No. 1,364,108; Jan. 4; v. 282; p. 12.
- Hames, William F., Providence, R. I. Tone-indicating device for violins. No. 1,392,151; Sept. 27; v. 290; p. 750.
- Hamel, I. J. (See Hostler, E. D., Hamel, and Mather.)
- Hamill, Truman W., Merced, Calif. Tire-protector. No. 1,399,553; Dec. 6.
- Hamilton, Alexander M., and G. W. Dorse, Toronto, Ontario, Canada. Transmission lever-locking device. No. 1,369,024; Feb. 22; v. 283; p. 563.
- Hamilton, Asbury, Brooklyn, N. Y. Holder for dishcloths, mops, or the like. No. 1,386,173; Aug. 2; v. 289; p. 42.
- Hamilton, Baxter P. (See Parker, R. D., and Hamilton.)
- Hamilton, Baxter P., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Signaling system. No. 1,366,650; Jan. 25; v. 282; p. 634.
- Hamilton, Baxter P., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Secret-communication system. No. 1,369,805; Mar. 1; v. 284; p. 10.
- Hamilton-Beach Mfg. Co. (See Nielsen, Emanuel, assignor.)
- Hamilton, Beauchamp, Woodworth, Incorporated. (See Hamilton, Edward M., assignor.)
- Hamilton, Belton T., London, England. Mechanism for non-recoil breech-loading guns. No. 1,397,418; Nov. 15.
- Hamilton, Belton T., London, England. Gun mounting and sighting apparatus. No. 1,398,688; Nov. 29.
- Hamilton Caster & Manufacturing Company, The. (See Kalberer, G. J., and Weigel, assignors.)
- Hamilton, Charles S., Cumberland, Md. Tire-chain. No. 1,389,503; Aug. 30; v. 289; p. 937.
- Hamilton & Company (London) Limited. (See Timmis, Albert H., assignor.)
- Hamilton, Edward E., Westfield, Mass. Bow-holder. No. 1,392,684; Oct. 4.
- Hamilton, Edward L., McCrory, Ark. Convertible vehicle-body. No. 1,393,440; Oct. 11.
- Hamilton, Edward M., assignor to Hamilton, Beauchamp, Woodworth Incorporated, San Francisco, Calif. Extraction of metals from their ores. No. 1,399,554; Dec. 6.
- Hamilton, Frederick, Providence, R. I., assignor to American Optical Company, Southbridge, Mass. Eye-testing instrument. No. 1,389,755; Sept. 6; v. 290; p. 39.
- Hamilton, Fredrick M., Dayton, Ohio. Pipe-wrench. No. 1,379,978; May 31; v. 286; p. 941.
- Hamilton, Harry. (See Arledge, Elbert H., assignor.)
- Hamilton, Harry B., Boston, Mass. Ankle-supporter. No. 1,397,095; Nov. 15.
- Hamilton, Harry D., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail. No. 1,375,633; Apr. 19; v. 285; p. 538.
- Hamilton, James W. C., and E. W. Quirk, Liverpool, England. Sterilizing cereals, nuts, seeds, and the like. No. 1,381,300; June 14; v. 287; p. 238.
- Hamilton, John C., Joliet, Ill. Concrete fence. No. 1,386,928; Aug. 9; v. 289; p. 264.
- Hamilton, John F., Minidoka, Idaho. Milk-can cover. No. 1,374,732; Apr. 12; v. 285; p. 303.
- Hamilton, John L., Boston, Mass., assignor to Safandshur Chemical Co., Inc., New York, N. Y. Container. No. 1,378,674; May 17; v. 286; p. 548.
- Hamilton, John R., Yonkers, N. Y. Chemical fire-extinguishing apparatus. No. 1,388,998; Aug. 30; v. 289; p. 837.
- Hamilton, Levi, Portland, Tenn. Acetylene-generator. No. 1,365,913; Jan. 18; v. 282; p. 445.
- Hamilton, Lewis L., Detroit, Mich. Machine for forming finishing-molding. No. 1,386,107; Aug. 2; v. 289; p. 29.
- Hamilton, Louis D., assignor of one-half to T. A. Conway, Titusville, Fla. Car-fender. No. 1,400,057; Dec. 13.
- Hamilton-Low Company, The. (See Davis, Patrick H., assignor.)
- Hamilton, Moses H., Forrest City, Ark. Air-pump. No. 1,390,782; Sept. 13; v. 290; p. 337.
- Hamilton, Paul H., Cleveland, Ohio. Burner. No. 1,379,301; May 24; v. 286; p. 739.
- Hamilton, Robert J., Browning, Mont. Wreck-preventing apparatus for ships. No. 1,375,151; Apr. 19; v. 285; p. 447.
- Hamilton, Rush E., Geyserville, Calif., assignor to Hamilton Tractor Company. Traction wheel. (Reissue.) No. 15,077; Apr. 5; v. 285; p. 153.
- Hamilton, Thomas H., New York, N. Y. Lifting-dock. No. 1,380,141; May 31; v. 286; p. 972.
- Hamilton, Thomas S., Kansas City, Mo. Lubricating-strip for leaf-springs. No. 1,371,165; Mar. 8; v. 284; p. 313.
- Hamilton, Thomas S., Kansas City, Mo. Device for preventing friction between the leaves of leaf-springs. No. 1,371,166; Mar. 8; v. 284; p. 313.
- Hamilton, Thomas S., Kansas City, Mo. Detachable dancing-sole. No. 1,395,958; Nov. 1.
- Hamilton Tractor Company. (See Hamilton, Rush E., assignor.) (Reissue.)
- Hamilton, William E., Columbus, Ohio. Transporting coal. No. 1,385,447; July 26; v. 288; p. 659.
- Hamilton, Wilbert H. (See Allen, H. G., and Hamilton.)
- Hamilton, William H. W., Baker, Oreg. Check-book. No. 1,398,508; Nov. 29.
- Hamilton, William M. (See Brigham, C. G., and Hamilton.)
- Hamilton, William S. H., Schenectady, N. Y., assignor to General Electric Company. Electrical regenerative control apparatus and system. No. 1,376,015; Apr. 26; v. 285; p. 643.
- Hamlin, Allen L., East Orange, N. J., assignor to Radium Luminous Material Corporation, New York, N. Y. Self-luminous index-hand. No. 1,364,368; Jan. 4; v. 282; p. 62.
- Hamlin, Ben M., assignor to J. V. Meyering Trunk Company, Chicago, Ill. Dust-curtain for wardrobe-trunks. No. 1,365,098; Jan. 11; v. 282; p. 246.
- Hamlin, Ben M., assignor to J. V. Meyering Trunk Company, Chicago, Ill. Trunk-locking mechanism. No. 1,377,770; May 10; v. 286; p. 322.
- Hamlin, Ben M., assignor to J. V. Meyering Trunk Company, Chicago, Ill. Drawer locking device. No. 1,379,977; May 31; v. 286; p. 941.
- Hammagren, Oran S., Minneapolis, Minn. Metal-working machine. No. 1,392,937; Oct. 11.
- Hammell, Alvin G., Sr., New York, N. Y. Lantern-carriage and lens-mount. No. 1,364,753; Jan. 4; v. 282; p. 136.
- Hammell, James. (See Davis, W. J., and Hammell.)
- Hammer, Cecil A., assignor of one-fourth to E. B. Sletmo, Coeur d'Alene, Idaho. Ledger-sheet. No. 1,397,096; Nov. 15.
- Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Vacuum side-seal closure. No. 1,365,780; Jan. 18; v. 282; p. 419.
- Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Catsup-cap. No. 1,367,253; Feb. 1; v. 283; p. 74.
- Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Polygonal closure. No. 1,367,254; Feb. 1; v. 283; p. 74.
- Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Catsup-cap. No. 1,367,812; Feb. 8; v. 283; p. 241.
- Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Band jar-closure. No. 1,376,760; May 3; v. 286; p. 72.
- Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Catsup-bottle cap. No. 1,376,761; May 3; v. 286; p. 72.
- Hammer, Charles, Queens, assignor to American Metal Cap Company, Brooklyn, N. Y. Means for sealing receptacles. No. 1,393,016; Oct. 11.
- Hammer, Edwin B., H. H. Knott, and C. J. Jungbluth, Washington, Iowa, assignors to Washington Manufacturing Company. Making pearl-button blanks. No. 1,377,491; May 10; v. 286; p. 270.
- Hammer, George, Oakland, Calif. Stove. No. 1,385,541; July 26; v. 288; p. 678.
- Hammerle, Frank H., Wilmerding, Pa. Ticket-holder. No. 1,377,576; May 10; v. 286; p. 284.
- Hammermill Paper Company. (See Klund, Frederic P., assignor.)
- Hammermith, Alfred F., Chicago, Ill. Extension electric-light fixture. No. 1,391,631; Sept. 20; v. 290; p. 572.
- Hammerstrom, Henry H. (See Stewart, R. E., and Hammerstrom.)
- Hammett, Charles W., and W. R. Frazer, New York, N. Y. Safety-connector for tire-chains. No. 1,364,109; Jan. 4; v. 282; p. 12.
- Hammett, F. Royal. (See Patterson, Thomas S., assignor.)



- Hammetter, August H., *et al.* (See Schloerb, Albert P., assignor.)
- Hammond, Alfred C., Columbia, S. C. Attachment for cake-formers. No. 1,377,831; May 10; v. 286; p. 335.
- Hammond, Amil R. (See Carswell, J. S., and Hammond assignor.)
- Hammond, Charles L., assignor of one-third to W. Seiler, Kokomo, Ind. Valve. No. 1,385,681; July 26; v. 288; p. 707.
- Hammond, George, *et al.*, executors. (See Keiper, Henry B.)
- Hammond, Grant, New Haven, Conn., assignor of one-third to A. C. Washburne, Pittsfield, and one-third to F. G. Crane, Dalton, Mass. Magazine catch and release for firearms. No. 1,368,719; Feb. 15; v. 283; p. 464.
- Hammond, Harry F., South Shaftsbury, Vt., assignor to N. A. Siraco, Whitehall, N. Y. Headlight. No. 1,379,182; May 24; v. 286; p. 717.
- Hammond, Harry F., South Shaftsbury, Vt., assignor to N. A. Siraco, Whitehall, N. Y. Headlight. No. 1,379,446; May 24; v. 286; p. 766.
- Hammond-Howard Manufacturing Company, (no stockholders liability.) (See Hammond, Joseph A., assignor.)
- Hammond, James C., Jacksonville, Fla. Portable bath-house. No. 1,385,615; July 26; v. 288; p. 694.
- Hammond, John H., Jr. (See Trenor, Albert D., assignor.)
- Hammond, John H., Jr., Gloucester, Mass. Teletypography. No. 1,370,504; Mar. 1; v. 284; p. 142.
- Hammond, John H., Jr., Gloucester, Mass. System of radiocontrol. No. 1,370,688; Mar. 8; v. 284; p. 223.
- Hammond, John H., Jr., Gloucester, Mass. System of radio telegraphy and telephony. No. 1,372,425; Mar. 22; v. 284; p. 676.
- Hammond, John H., Jr., Gloucester, Mass. Multiplex radiotelephony. No. 1,372,426; Mar. 22; v. 284; p. 676.
- Hammond, John H., Jr., Gloucester, Mass. Position-revealing system for torpedoes. No. 1,376,762; May 3; v. 286; p. 72.
- Hammond, John H., Jr., Gloucester, Mass. System of radiodirective control. No. 1,387,850; Aug. 16; v. 289; p. 499.
- Hammond, John H., Jr., Gloucester, Mass. Apparatus for controlling torpedo-firing. No. 1,388,640; Aug. 23; v. 289; p. 711.
- Hammond, John H., Jr., Gloucester, Mass. System for controlling moving bodies by radio energy. No. 1,390,288; Sept. 13; v. 290; p. 238.
- Hammond, John H., Jr., Gloucester, Mass. Range-finder. No. 1,398,509; Nov. 29.
- Hammond, John H., Jr., Gloucester, Mass. Steering-control. No. 1,398,510; Nov. 29.
- Hammond, John H., Jr., Gloucester, Mass. System of radiodynamic control. No. 1,399,254; Dec. 6.
- Hammond, Joseph A., assignor to Hammond-Howard Manufacturing Company, (no stockholders liability.) Deming, N. Mex. Electric razor. No. 1,390,702; Sept. 13; v. 290; p. 321.
- Hammond, Myron B., and H. H. Taylor, assignors to The Thos. P. Taylor Company, Bridgeport, Conn. Man's garter. No. 1,396,423; Nov. 8.
- Hammond, Thomas W., Jr., Tacoma, Wash. Concrete-pipe machine. No. 1,371,239; Mar. 15; v. 284; p. 390.
- Hammond, V. Hayes. (See Fay, Richard D., assignor.)
- Hammond, William P. (See Moses, Edmund Q., assignor.)
- Hammond, William P., Passaic, N. J. Combined spare-tire holder and rear bumper for automobiles. No. 1,376,807; May 3; v. 286; p. 81.
- Hammond, William P., Passaic, N. J., assignor to the Motometer Company, New York, N. Y. Temperature-indicating device for water-cooling systems for internal-combustion engines. (Reissue.) No. 15,063; Mar. 15; v. 284; p. 538.
- Hamor, William A. (See Davis, H. S., and Hamor.)
- Hamor, William A. (See Tressler, Donald K., assignor.)
- Hampden, Wellesley R., assignor of one-half to J. C. Kleist, and one-half to W. F. Woolard, Milwaukee, Wis. Trolley-retriever for street-cars. No. 1,396,367; Nov. 8.
- Hamphill Company. (See Gagné, Augustin, assignor.)
- Hampshire, Harry E., and F. B. Cranmer, Philadelphia, Pa., assignor to Thomson Printing Company. Delivery attachment for printing-presses. No. 1,399,477; Dec. 6.
- Hampson, Donald A., assignor to Morgans & Wilcox Mfg. Co., Middletown, N. Y. Printer's furniture. No. 1,371,621; Mar. 15; v. 284; p. 466.
- Hampson, James F., Edwin, Manitoba, Canada. Plow. No. 1,392,685; Oct. 4.
- Hampton, Leon N., New York, N. Y. Lock. No. 1,384,561; July 12; v. 288; p. 319.
- Hanable, Carl F., Negley, Ohio, assignor of one-half to J. K. Bishop, Beaver Falls, Pa. Smoking-pipe. No. 1,397,958; Nov. 22.
- Hanak, B. B., Company. (See Wolff, Oscar M., assignor.)
- Hanau, Joseph. (See Hanau, Louis and J.)
- Hanau, Louis and J., Brooklyn, N. Y. Resilient tire. No. 1,379,979; May 31; v. 286; p. 941.
- Hanau, Carl S., deceased; D. G. Hanau, executrix, New York, N. Y. Paper-feeding machine. No. 1,376,875; May 3; v. 286; p. 95.
- Hanau, Dorothy G., executrix. (See Hanau, Carl S.)
- Hanau, Rudolph L., Pittsburgh, Pa., assignor to Hydrex Engineering Corporation, Buffalo, N. Y. Flow-indicator. No. 1,365,488; Jan. 11; v. 282; p. 322.
- Hanauer, Albert M. (See Bennett, George R., assignor.)
- Hancock, Harry H., Swampscott, Mass. Extension furniture for printers. No. 1,397,485; Nov. 15.
- Hancock, Harry H., Swampscott, Mass. Extension furniture for printers. No. 1,397,486; Nov. 15.
- Hancock, Horace G., assignor to The North & Judd Manufacturing Company, New Britain, Conn. Buckle. No. 1,376,763; May 3; v. 286; p. 72.
- Hancock Manufacturing Co. (See Koeller, William F., assignor.)
- Hancock Manufacturing Co. (See Yates, Joseph M., assignor.)
- Hancock, Thomas F., assignor to The Seymour Metal Goods Company, Seymour, Conn. Hose-supporter. No. 1,370,209; Mar. 1; v. 284; p. 86.
- Hancock, William E., Tulsa, Okla. Oil well mechanism. No. 1,384,525; July 12; v. 288; p. 312.
- Hand, Jay A. (See Kuhn, F., and Hand.)
- Hand, Jay A. (See Kuhn, F., Hand, and Spiess.)
- Hand, Jay A. (See Pelton, C. R., and Hand.)
- Hand, John G., Kokomo, Ind., assignor of one-half to The Speed-Up Wrench and Manufacturing Company. Can-punch. No. 1,396,629; Nov. 8.
- Hand, Thomas W., assignor to Davy Brothers, Limited, Sheffield, England. Steam hydraulic intensifier. No. 1,383,399; July 5; v. 288; p. 29.
- Hand, Thomas W., assignor to Davy Brothers, Limited, Sheffield, England. Tire slabbing and punching press. No. 1,387,260; Aug. 9; v. 289; p. 327.
- Hand, Townson, New Haven, Conn. Revolving heel. No. 1,394,676; Oct. 25.
- Handlan-Buck Manufacturing Company. (See Meyer, August, assignor.)
- Handley Page Limited. (See Page, Frederick H., assignor.)
- Handley, William R., Wichita, Kans. Book-holder. No. 1,376,272; Apr. 26; v. 285; p. 692.
- Handly, Frank M., Edinburg, Ind. Valve-lifter. No. 1,373,885; Apr. 5; v. 285; p. 99.
- Handy, Arthur, and C. E. Krueger, Milwaukee, Wis. Rail-drill. No. 1,381,919; June 21; v. 287; p. 415.
- Handy Furniture Manufacturing Company. (See Topor, Jacob, assignor.)
- Hanel, Albert B., Milwaukee, Wis. Dip-net. No. 1,387,393; Aug. 9; v. 289; p. 356.
- Haner, Carl, Jr. (See Backhaus, A. A., and Haner.)
- Haner, Carl, Jr., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Treating distillery waste. No. 1,396,368; Nov. 8.
- Haney, Crandall R., Manson, Iowa. Cigarette-holder. No. 1,386,494; Aug. 2; v. 289; p. 103.
- Haney, Frank C., Dayton, Ohio. Train-stop. No. 1,372,504; Mar. 22; v. 284; p. 691.
- Haney, Myron L., Beloit, Wis. Device for opening and closing garage-doors and the like. No. 1,395,240; Oct. 25.
- Hanf, Jefferson W. (See Egerton, C. W., and Hanf.)
- Hanf, Edward A., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,367,137; Feb. 1; v. 283; p. 50.
- Hanf, Edward A., Irwin, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,367,138; Feb. 1; v. 283; p. 51.
- Hanf, Edward A., Irwin, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,367,139; Feb. 1; v. 283; p. 51.
- Hanf, Edward A., Irwin, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,379,686; May 31; v. 286; p. 886.
- Hanf, Edward A., Irwin, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,396,835; Nov. 15.
- Hanford, Orrin A., Terre Haute, Ind. Portable hand-tool for capping and sealing bottles. No. 1,366,259; Jan. 18; v. 282; p. 512.
- Hango, Alexander, Portland, Oreg. Air-regulator for automobiles. No. 1,388,999; Aug. 30; v. 289; p. 837.
- Hanigan, John O., Syracuse, N. Y. Supplemental handle for files. No. 1,375,634; Apr. 19; v. 285; p. 538.
- Hanison, Nettie. (See Clouser, H. E., and Thornton, assignors.)
- Hanke, Albert W., Le Mars, Iowa. Hairpin. No. 1,371,086; Mar. 8; v. 284; p. 298.
- Hanker, Frederic C., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Flash-over-suppressing means for rotary-converter systems. No. 1,392,052; Sept. 27; v. 290; p. 731.
- Hankin, Edward F., Philadelphia, Pa. Electric etching instrument. No. 1,387,394; Aug. 9; v. 289; p. 356.
- Hankins, John C., Detroit, Mich. Harness. No. 1,401,600; Dec. 27.
- Hanks, Marshall W., Mount Vernon, N. Y., assignor to Hanksraft Company. Oven. No. 1,375,695; Apr. 26; v. 285; p. 589.
- Hanksraft Company. (See Hanks, Marshall W., assignor.)
- Hanley, Herbert R., San Francisco, Calif. Apparatus for generating gases and treating solutions therewith. No. 1,377,478; May 10; v. 286; p. 267.



## Alphabetical list of patentees—Continued.

- Hanley, James B., Philadelphia, Pa. Resilient vehicle-wheel. No. 1,374,651; Apr. 12; v. 285; p. 288.
- Hanley, John H., Jr., and J. L. Kreig, New York, N. Y. Fluid-heater. No. 1,397,282; Nov. 15.
- Hanley, Timothy, East Norfolk, Mass. Convertible furniture. No. 1,389,756; Sept. 6; v. 290; p. 39.
- Hanlon, George W., assignor to E. A. Morange, New York, N. Y. Means for producing theatrical stage effects. No. 1,365,989; Jan. 18; v. 282; p. 460.
- Hanlon, George W., assignor to E. A. Morange, New York, N. Y. Means for producing theatrical stage effects. No. 1,365,990; Jan. 18; v. 282; p. 460.
- Hanlon, John H., Somerville, Mass. Drifting-valve. No. 1,378,786; May 17; v. 286; p. 569.
- Hanlon, William P., assignor of one-half to A. A. Camerer, New York, N. Y. Desk furniture. No. 1,381,825; June 14; v. 287; p. 337.
- Hanmer, Laurence G., Brooklyn, assignor to The A-Z Company, New York, N. Y. Making automobile-radiators. No. 1,369,806; Mar. 1; v. 284; p. 10.
- Hanna Engineering Works. (See Gates, Philetus W., assignor.)
- Hanna Furnace Company, The. (See Clark, Wilbur T., assignor.)
- Hanna, Homer C., Oklahoma, Okla. Internal-combustion-engine-starting device. No. 1,365,489; Jan. 11; v. 282; p. 322.
- Hannaford, Sallie C., Cincinnati, Ohio. Dress-skirt shield. No. 1,364,276; Jan. 4; v. 282; p. 45.
- Hannezan, Joseph L., Los Angeles, Calif. Hub-flange for motor-vehicles. No. 1,381,635; June 14; v. 287; p. 300.
- Hanner, Edward, Philadelphia, Pa. Tree or plant support. No. 1,377,832; May 10; v. 286; p. 335.
- Hannev, Angus F., assignor of one-half to A. Gammell, Chicago, Ill. Laundry-tag. No. 1,371,305; Mar. 15; v. 284; p. 403.
- Hannifin Manufacturing Company. (See Ellis, Russell E., assignor.)
- Hannifin Manufacturing Company. (See Miller, Edwin P., assignor.)
- Hannotte, Honore, assignor to L. Wilke, Morsemer, N. J. Theftproof receiver-box. No. 1,384,317; July 12; v. 288; p. 269.
- Hanrath, Theodore W., Chicago, Ill. Game device. No. 1,398,511; Nov. 29.
- Hans, Edmund E., Kalamazoo, Mich. Wheel. No. 1,378,025; May 17; v. 286; p. 423.
- Hans, Edmund E., Kalamazoo, Mich. Filtering means for lubricating systems. No. 1,379,259; May 24; v. 286; p. 731.
- Hans, Edmund E., Detroit, Mich. Traction-wheel. No. 1,380,474; June 7; v. 287; p. 29.
- Hans, John, assignor of three-fourths to J. P. Haworth, London, England. Device for holding or gripping dish-cloths or the like. No. 1,391,632; Sept. 20; v. 290; p. 572.
- Hansa Metallwerk G. m. b. H., Abteilung Maschinenfabrik. (See Schilling, Hugo O., assignor.)
- Hansell, Earl L., Pittsburgh, Pa. Liquid-mixing machine. No. 1,376,273; Apr. 26; v. 285; p. 692.
- Hansemann, Richard A. (See Kucharski, Stanislaus, assignor.)
- Hansen, Alfred A. E., Philadelphia, Pa. Marking attachment for typewriting-machines. No. 1,368,926; Feb. 15; v. 283; p. 504.
- Hansen, Anton G., Boelus, Nebr. Auto-wheel shoe. No. 1,381,826; June 14; v. 287; p. 337.
- Hansen, Augie L., Evanston, assignor to Justrite Manufacturing Company, Chicago, Ill. Acetylene-lamp. No. 1,368,143; Feb. 8; v. 283; p. 304.
- Hansen, Charles, San Jose, Calif. Phonograph. No. 1,379,338; May 24; v. 286; p. 747.
- Hansen, Charles C., assignor to Refrigerating Specialties Company, Chicago, Ill. Valve-stem packing. No. 1,391,317; Sept. 20; v. 290; p. 508.
- Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Liquid-fuel burner. No. 1,377,479; May 10; v. 286; p. 167.
- Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Double core-barrel for core-drills. No. 1,383,939; July 5; v. 288; p. 141.
- Hansen, Charles C., Forest Park, assignor to Refrigerating Specialties Co., Chicago, Ill. Pressure-reducing valve. No. 1,378,026; May 17; v. 286; p. 424.
- Hansen, Charles C., New York, N. Y., assignor to Thermal Appliance Company, Inc., Elizabethport, N. J. Water-heater. No. 1,400,541; Dec. 20.
- Hansen, Christian H., Norfolk, Va. Time-record folder. No. 1,398,231; Nov. 29.
- Hansen, Clemmet, Brooklyn, N. Y. Boat. No. 1,380,899; June 7; v. 287; p. 110.
- Hansen, Clifford O., Tiffin, Ohio. Friction-clutch. No. 1,373,810; Apr. 5; v. 285; p. 84.
- Hansen, Emil. (See Marheine, Frederick W., assignor.)
- Hansen, Einar, Paris, France. Concentration of sulfuric acid. No. 1,379,260; May 24; v. 286; p. 731.
- Hansen-Eliehammer, Jacob C., Copenhagen, Denmark. Automatic valve mechanism. No. 1,384,462; July 12; v. 288; p. 299.
- Hansen, Frank F., assignor to Hansen-Halliburton Mfg. Company, Chicago, Ill. Electrical-resistance alloy. No. 1,375,454; Apr. 19; v. 285; p. 504.
- Hansen, Frank F., assignor to Hansen-Halliburton Mfg. Company, Chicago, Ill. Alloy for electrical resistance. No. 1,375,455; Apr. 19; v. 285; p. 504.
- Hansen, George T., et al. (See Sherwood, Charles F., assignor.)
- Hansen, George T., and C. F. Sherwood, Salt Lake City, Utah. Pump. No. 1,380,798; June 7; v. 287; p. 91.
- Hansen Grinder Company. (See Hansen, Julius C., assignor.)
- Hansen-Halliburton Mfg. Company. (See Hansen, Frank F., assignor.)
- Hansen, Hans, Kansas City, Mo. Drain-board. No. 1,394,994; Oct. 25.
- Hansen, Hans, Kansas City, Mo. Wringer. No. 1,400,433; Dec. 13.
- Hansen, Hans, Kansas City, Mo. Driving mechanism for washing-machines. No. 1,400,743; Dec. 20.
- Hansen, Hans, Kansas City, Mo. Gear-transmission for washing-machines and wringers. No. 1,400,744; Dec. 20.
- Hansen, Hans, Maspeth, N. Y., assignor to Eastern Tube and Tool Co., Inc. Non-metallic flexible conduit. No. 1,376,618; May 3; v. 286; p. 45.
- Hansen, Hans, Maspeth, assignor to Eastern Tube & Tool Company, Brooklyn, N. Y. Armor-winding machine. No. 1,396,197; Nov. 8.
- Hansen, Hans C. (See Reimer, Jorgen A., assignor.)
- Hansen, Hans C., Chateau, Mont. Joint or splice connection. No. 1,365,685; Jan. 18; v. 282; p. 399.
- Hansen, Hans C., Copenhagen, Denmark. Lathing-sheet. No. 1,382,357; June 21; v. 287; p. 496.
- Hansen, Hans G., Richmond Beach, Wash. Milk-can. No. 1,377,841; May 10; v. 286; p. 241.
- Hansen, Hans L. C., Chicago, Ill. Pump-piston. No. 1,388,254; Aug. 23; v. 289; p. 635.
- Hansen, Hans P. M., Fremont, Nebr. Protector for the corner-joints of beveled lap-sidings. No. 1,366,175; Jan. 18; v. 282; p. 495.
- Hansen, Eigil A., Frederiksberg, near Copenhagen, Denmark. Grinding-machine. No. 1,370,964; Mar. 8; v. 284; p. 275.
- Hansen, Harvey F., Oakland, Calif. Pump. No. 1,370,810; Mar. 8; v. 284; p. 246.
- Hansen, Julius C., Chicago, assignor, by mesne assignments, to Hansen Grinder Company, Cook county, Ill. Surface-grinding machine. No. 1,387,646; Aug. 16; v. 289; p. 458.
- Hansen, Klaus L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,387,487; Aug. 16; v. 289; p. 426.
- Hansen, Mary S., et al. (See Womack, Frank, assignor.)
- Hansen, Niels. (See Ehrenfeld, R., and Hansen.)
- Hansen, Oswald H., Port Washington, Wis. Chair-base. No. 1,385,348; July 19; v. 288; p. 562.
- Hansen, Oswald H., assignor of one-half to The Wisconsin Chair Company, Port Washington, Wis. Treating substances. No. 1,390,703; Sept. 13; v. 290; p. 321.
- Hansen, Oswald H., assignor of one-half to The Wisconsin Chair Company, Port Washington, Wis. Treating canned foods. No. 1,391,953; Sept. 27; v. 290; p. 710.
- Hansen, Sofus E., Seattle, Wash. Bearing-board. No. 1,393,891; Oct. 18.
- Hansen, Svend, Brooklyn, N. Y., assignor to Birmingham Iron Foundry, Derby, Conn. Roll-grinder. No. 1,385,077; July 19; v. 288; p. 508.
- Hansen, Thomas H., South Yarra, near Melbourne, Victoria, assignor of one-half to J. Davey, Murrumbena, Victoria, Australia. Means for securing and sealing packing-cases and the like. No. 1,374,652; Apr. 12; v. 285; p. 288.
- Hansen, William A., assignor of one-sixth to R. F. Elvin, one-sixth to A. Lefavor, one-sixth to F. L. Ewing, one-sixth to M. M. Daniels, and one-sixth to J. P. Bowers, Salt Lake City, Utah. Automobile-transportation support. No. 1,390,530; Sept. 13; v. 290; p. 286.
- Hansen, William C., Rock Island, Ill. Bake-pan. No. 1,396,684; Nov. 8.
- Hansgirt, Fritz, Grätz, Styria, Austria. Manufacturing perylen. No. 1,384,615; July 12; v. 288; p. 331.
- Hansgirt, Fritz, Grätz, Austria. Fractionate distillation. No. 1,398,856; Nov. 29.
- Hanson, Albert J., assignor to Tidewater Equipment Corporation, Portland, Me. Engine-starter. No. 1,394,619; Oct. 25.
- Hanson, Albert T., Kindred, N. D. Ventilator. No. 1,369,099; Feb. 22; v. 283; p. 577.
- Hanson, Bengt M. W., Hartford, Conn. Grinding-machine. No. 1,388,182; Aug. 23; v. 289; p. 620.
- Hanson, Bengt M. W., Hartford, Conn. Clutch. No. 1,381,090; June 21; v. 287; p. 428.
- Hanson, Bengt M. W., Hartford, Conn. Ball-bearing. No. 1,399,959; Dec. 13.
- Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Contour-grinding machine. No. 1,367,382; Feb. 1; v. 283; p. 100.
- Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Chuck. No. 1,372,287; Mar. 22; v. 284; p. 650.
- Hanson, Bengt M. W., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Vertical-surface grinding machine. No. 1,392,325; Oct. 4.



- Hanson, Clara, Wittenberg, Wis. Mattress attachment. No. 1,372,505; Mar. 22; v. 284; p. 691.
- Hanson, Clinton A. S., Barron, Wis. Multicylinder for cycle explosion-engines. No. 1,391,473; Sept. 20; v. 290; p. 540.
- Hanson, Earl C., Washington, D. C. Underground loop-antenna. No. 1,373,612; Apr. 5; v. 285; p. 45.
- Hanson, Earl C., Washington, D. C. Underground and submarine antenna. No. 1,388,336; Aug. 23; v. 289; p. 652.
- Hanson, Earl C., Los Angeles, Calif., assignor to Title Insurance and Trust Company. Wireless Phonograph for hospitals. No. 1,381,827; June 14; v. 287; p. 337.
- Hanson, Earl C., Los Angeles, Calif., assignor to Title Insurance and Trust Company. Audio-frequency wireless fog-signal system. No. 1,388,949; Aug. 30; v. 289; p. 827.
- Hanson, George, Wilmington, N. C. Ventilator. No. 1,393,775; Oct. 18.
- Hanson, Gustaf W., Wichita, Kans. Earth-boring machine. No. 1,375,092; Apr. 19; v. 285; p. 435.
- Hanson, Gustaf W., Wichita, Kans. Drilling-tool. No. 1,375,093; Apr. 19; v. 285; p. 435.
- Hanson, Gustaf W., Wichita, Kans. Boring-drill. No. 1,398,551; Nov. 29.
- Hanson, Hans C., assignor to American Gas Machine Company, Albert Lea, Minn. Folding camp-stove. No. 1,387,152; Aug. 9; v. 289; p. 308.
- Hanson, Harry C., assignor to Guiterman Bros., St. Paul, Minn. Sleeve-vest. No. 1,388,563; Aug. 23; v. 289; p. 696.
- Hanson, Hugo H., and A. C. Walker, Bangor, Me., assignor, by mesne assignments, to Eastern Manufacturing Company, Boston, Mass. Plating-bath. No. 1,380,142; May 31; v. 286; p. 972.
- Hanson, Louis S., Lewistown, Mont. Radiator-shutter. No. 1,401,905; Dec. 27.
- Hanson, Maynard N., Little Rock, Ark. Jar-holder. No. 1,383,112; June 28; v. 287; p. 694.
- Hanson, Oscar W., assignor of one-half to J. J. Sullivan, Salina, Kans. Piston-ring. No. 1,384,131; July 12; v. 288; p. 230.
- Hanson, Oscar W., Salina, Kans. Universal joint. No. 1,384,255; July 12; v. 288; p. 256.
- Hanson, Thure, Worcester, Mass., assignor to Dover Stamping & Manufacturing Company, Portland, Me. Measuring-can. No. 1,377,577; May 10; v. 286; p. 284.
- Hanson & Van Winkle Co., The. (See Daniels, John T., assignor.)
- Hansen, Walter M., Milwaukee, Wis. Razor-stroppler roll. No. 1,396,424; Nov. 8.
- Hansen, Oscar A., Dallas, Tex. Building-slab. No. 1,375,045; Apr. 19; v. 285; p. 426.
- Haon, Harry J., Newburgh, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company. The production of artificial patent-leather and product thereof. No. 1,372,021; Mar. 22; v. 284; p. 599.
- Haon, Harry J., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Panel. No. 1,393,359; Oct. 11.
- Haon, Harry J., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making automobile-door panels. No. 1,401,691; Dec. 27.
- Hapgood, Clarence H., assignor to Toledo Scale Company, Toledo, Ohio. Hanging scale. No. 1,366,880; Jan. 25; v. 282; p. 679.
- Hapgood, Clarence H., Toledo, Ohio, assignor of one-half to C. C. Hoffmann, Birmingham, Ala. Standardized connecting-rod and standardizing the same. No. 1,367,478; Feb. 1; v. 283; p. 113.
- Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Separation of oleo and stearin from fats. No. 1,381,705; June 14; v. 287; p. 314.
- Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Separating oils from foots. No. 1,381,706; June 14; v. 287; p. 314.
- Hapner, Adam L., Cincinnati, Ohio. Baker's peel. No. 1,393,683; Oct. 11.
- Happ, George, Jr., Port Jervis, N. Y. Dough-divider. No. 1,373,811; Apr. 5; v. 285; p. 84.
- Happle, John, Syracuse, N. Y. Level. No. 1,384,062; July 12; v. 288; p. 216.
- Happy, John L., Chicago, Ill. Wrench. No. 1,371,679; Mar. 15; v. 284; p. 477.
- Haralson, Grover C., and W. E. Turner, Atlanta, Ga. Filling or thread holder for looms. No. 1,385,914; July 26; v. 288; p. 753.
- Haralson, Waldo, Las Animas, Colo. Door-stop. No. 1,375,388; Apr. 19; v. 285; p. 491.
- Harasta, Joseph W., Los Angeles, Calif. Expanding-packing construction. No. 1,396,836; Nov. 15.
- Harbaugh, Charles A., Linwood, Kans. Explosive lock. No. 1,390,704; Sept. 13; v. 290; p. 321.
- Harbaugh, Charles B., Milwaukee, Wis. Pump-support. No. 1,395,275; Nov. 1.
- Harbaugh, Cora, administratrix. (See Harbaugh, John W.)
- Harbaugh, John W., deceased, Corydon, Ind.; C. Harbaugh, administratrix. Automobile clutch-stabilizer and control-silencer. No. 1,390,954; Sept. 13; v. 290; p. 373.
- Harbert, Francis J., assignor of one-half to W. T. Harbert, Twin Falls, Idaho. Automobile-tire tool. No. 1,378,787; May 17; v. 286; p. 570.
- Harbert, Willis T. (See Harbert, Francis J., assignor.)
- Harbrecht, Henry P., Sandusky, Ohio. Pulp-molding apparatus. No. 1,377,342; May 10; v. 286; p. 241.
- Harcourt, Stillwell R., assignor to W. W. Kimball Company, Chicago, Ill. Music-sheet guide. No. 1,399,114; Dec. 6.
- Hard Manufacturing Co. (See Doty, Boyd A., assignor.)
- Hardcastle, Frank L., Chicago, Ill. Shoe-rack. No. 1,380,376; June 7; v. 287; p. 10.
- Hardeman, William E., Birmingham, England, assignor to Dunlop Tire & Rubber Corporation of America, Buffalo, N. Y. Tire-press. No. 1,388,255; Aug. 23; v. 289; p. 635.
- Harden, Harry, assignor of one-half to R. L. Farrar, London, Ohio. Implement-frame. No. 1,369,241; Feb. 22; v. 283; p. 605.
- Harden, William H., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Multiple-station transmission-circuits. No. 1,392,152; Sept. 27; v. 290; p. 570.
- Hardenbergh, Clarence M., et al. (See Miller, William G., assignor.)
- Harder, Harry E., assignor of one-half to W. F. Leschen, St. Louis, Mo. Valve. No. 1,372,878; Mar. 29; v. 284; p. 806.
- Hardesty, Ben F., St. Louis, Mo. Spring-equalizer attachment for automobiles. No. 1,388,461; Aug. 23; v. 289; p. 678.
- Hardesty, Frederick J. (See Heeter, T. E., and Hardesty.)
- Hardesty, Rudd, Denver, Colo. Perpetual automobile license-plate. No. 1,384,949; July 19; v. 288; p. 431.
- Hardey, Manuel, San Francisco, Calif. Screwdriver. No. 1,385,915; July 26; v. 288; p. 754.
- Hardey, Virgil S., Chicago, Ill. Means for regulating time-pieces and the like. No. 1,396,193; Nov. 8.
- Hardie, Robert W., White Plains, N. Y. Means for conditioning vapor. No. 1,388,143; Aug. 16; v. 289; p. 555.
- Hardin, Alford, Murray, Ohio. Lock. No. 1,383,113; June 28; v. 287; p. 695.
- Hardin, John E. (See Touchstone, B. F., Gardner, Bangle, Sullivan, and Hardin.)
- Hardin, Reyno L., Blackwell, Okla. Windshield. No. 1,389,549; Aug. 30; v. 289; p. 946.
- Harding, Abner C. (See Kemble, Charles P., assignor.)
- Harding, Charles D. (See Harvey, V., and Harding.)
- Harding, Charles K. (See Fairchild, Alice M., assignor.)
- Harding, George V., Oakland, Calif. Fencepost. No. 1,399,426; Dec. 6.
- Harding, Henry O'B., Minneapolis, Minn. Conveyor device for loading flour into cars. No. 1,373,659; Apr. 5; v. 285; p. 54.
- Harding, Lewis W., Norfolk, Va., assignor of one-half to J. A. Lesner. Safety-flap pocket registry-envelop. No. 1,393,776; Oct. 18.
- Harding, Roland, Groton, N. Y. Inkwell. No. 1,386,108; Aug. 2; v. 289; p. 29.
- Harding, Samuel. (See Harding, William J. and S.)
- Harding, Simon J., West Baldwin, Me. Washing-machine. No. 1,386,495; Aug. 2; v. 289; p. 103.
- Harding, William, Cleveland, Ohio. Pipe-hanger. No. 1,399,960; Dec. 13.
- Harding, William J. and S., Johnstown, N. Y. Ice-cream-cone tray. No. 1,370,811; Mar. 8; v. 284; p. 247.
- Hardinge Brothers. (See Hardinge, Franklin, assignor.)
- Hardinge Company. (See Hardinge, Harry W., assignor.)
- Hardinge Brothers. (See Rendle, T. A., and Beyer, assignors.)
- Hardinge Brothers. (See Rendle, Thomas A., assignor.)
- Hardinge, Franklin, assignor to Hardinge Brothers, Inc., Chicago, Ill. Method of and apparatus for lining furnace-fireboxes. No. 1,393,777; Oct. 18.
- Hardinge, Harry W., New York, N. Y. Grinding-mill. No. 1,366,651; Jan. 25; v. 282; p. 634.
- Hardinge, Harry W., New York, N. Y. Apparatus for crushing ores and other material. No. 1,367,777; Feb. 8; v. 283; p. 234.
- Hardinge, Harry W., assignor to Hardinge Company, New York, N. Y. Grinding-mill. No. 1,388,462; Aug. 23; v. 289; p. 678.
- Hardinge, Harry W., assignor to Hardinge Company, New York, N. Y. Grinding-mills and grinding medium therefor. No. 1,388,463; Aug. 23; v. 289; p. 678.
- Hardman, David E., Simms, Mont. Grease-cup. No. 1,372,427; Mar. 22; v. 284; p. 676.
- Hardoncourt, Arthur, Jr., Richmond Hill, N. Y. Channel-brick. No. 1,373,238; Mar. 29; v. 284; p. 878.
- Hardsoeg Wonder Drill Company. (See Turner, Thomas, assignor.)
- Hardt, Henry H., Gibsonia, Pa. Indicator for balling-presses. No. 1,399,478; Dec. 6.
- Hardwick, James F., Owensboro, Ky. Burglar-alarm. No. 1,392,326; Oct. 4.
- Hardy, Arthur M., Bowmanville, Ontario, Canada. Endless belt, strap, and other like article. No. 1,375,046; Apr. 19; v. 285; p. 426.
- Hardy, Arthur M., Bowmanville, assignor to The Goodyear Tire & Rubber Co. of Canada, Limited, Toronto, Ontario, Canada. Endless belt and other like article. No. 1,372,428; Mar. 22; v. 284; p. 676.
- Hardy, Charles, et al. (See Service, William F., assignor.)



## Alphabetical list of patentees—Continued.

- Hardy, Charles, Coney Island, N. Y. Grinding attachment for lathes. No. 1,368,499; Feb. 15; v. 283; p. 421.
- Hardy, Clara B., Los Angeles, Calif. Mechanical manipulating-machine. No. 1,391,893; Sept. 27; v. 290; p. 698.
- Hardy, Clarence L., assignor to M. D. Larkin, Dayton, Ohio. Nozzle. No. 1,381,873; June 14; v. 287; p. 346.
- Hardy, Harold J., Cleveland, Ohio. Machine for bending rods, bars, or the like. No. 1,385,542; July 26; v. 288; p. 678.
- Hardy, Harry B., Quincy, Calif. Rim for mounting tires. No. 1,377,343; May 10; v. 286; p. 241.
- Hardy, James D., Salt Lake City, Utah. Hammer. No. 1,386,780; Aug. 9; v. 289; p. 233.
- Hardy, John E., Portland, Oreg. Convertible table. No. 1,385,046; July 19; v. 288; p. 500.
- Hardy, John N., H. D. Wilson, and D. S. Long, Waycross, Ga. Hot-water radiator. No. 1,392,891; Oct. 4.
- Hardy, Leonard G., Salt Lake City, Utah. Plant toppler and cultivator. No. 1,373,723; Apr. 5; v. 285; p. 66.
- Hardy, Walter B., Fresno, Calif. Drier. No. 1,367,658; Feb. 8; v. 283; p. 211.
- Hare, Charles N., Lima, Ohio. Ocean compressed-air power. No. 1,389,445; Aug. 30; v. 289; p. 926.
- Hare, Fred M., Kiefer, Okla. Sand-shield for oil-wells. No. 1,389,550; Aug. 30; v. 289; p. 947.
- Hargadine, Charles H., Omaha, Nebr. Combined window glass and screen holder. No. 1,372,687; Mar. 29; v. 284; p. 767.
- Hargan, Augustus D., Bayonne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Recording-key. No. 1,378,950; May 24; v. 286; p. 673.
- Harger, John, Liverpool, and H. Terrey, Bishops Waltham, England; said Terrey assignor to said Harger. Treatment or purification of mixtures of hydrogen and carbon monoxid for the separation therefrom of the latter. No. 1,366,176; Jan. 18; v. 282; p. 495.
- Hargey, George L., Pottsville, Pa. Plumber's table and vise-support. No. 1,382,505; June 21; v. 287; p. 525.
- Hargis, Lawrence H., Texarkana, Tex. Rotary fountain-brush. No. 1,386,568; Aug. 2; v. 289; p. 118.
- Hargood, Harry W., Seattle, Wash. Valve mechanism. No. 1,397,685; Nov. 22.
- Hargrave, Oscar V., Malden, Mass. Means of defense. No. 1,381,301; June 14; v. 287; p. 238.
- Hargreaves, Robert, St. Paul, Minn. Envelop. No. 1,371,418; Mar. 15; v. 284; p. 426.
- Hargreaves, Robert C., assignor of one-third to R. D. Chapin and one-third to G. G. Behn, Detroit, Mich. Toy. No. 1,394,008; Oct. 18.
- Hargrove, Orlando P., Wayland, N. Y. Bumper for looms and the like. No. 1,383,940; July 5; v. 288; p. 141.
- Harker, Frederick. (See Wall, C. F., and Harker.)
- Harkins, Thomas L., Boston, Mass. Tire-spreader. No. 1,371,480; Mar. 15; v. 284; p. 438.
- Harkins, Thomas L., Boston, Mass. Circular planer. No. 1,381,550; June 14; v. 287; p. 285.
- Harkless, Merl J. (See Fowkes, W. H., and Harkless.)
- Harkless, Merl J., Harvey, Ill., assignor to The Buda Company. Brake mechanism for lifting-jacks. No. 1,396,955; Nov. 15.
- Harkness, Newton L., Parsons, Kans. Railway-signal. No. 1,397,419; Nov. 15.
- Harkness, William J., Pittsburgh, Pa. Drill-stem coupling. No. 1,379,980; May 31; v. 286; p. 941.
- Harkrader, George H., assignor to The New System Manufacturing Company, Columbus, Ohio. Rotary baking-oven. No. 1,388,256; Aug. 23; v. 289; p. 635.
- Harlem, Lewis W., New York, N. Y. Button-card. No. 1,388,833; Aug. 23; v. 289; p. 748.
- Harley-Davidson Motor Co. (See Ziska, Adam, Jr., assignor.)
- Harley, John S., Waltham Abbey, England. Production of yarn, twine, cord, and the like by spinning or twisting flat strips of material. No. 1,379,981; May 31; v. 286; p. 942.
- Harley, Leon J., Jr. (See Lasares, George C., assignor.)
- Harley, Orval K., Jenks, Okla. Shock-absorber. No. 1,396,573; Nov. 8.
- Harley, William, Jr., Oak Park, Ill. Sash-lock. No. 1,390,436; Sept. 13; v. 290; p. 267.
- Harlow, George, Altrincham, England, assignor to Westinghouse Electric and Manufacturing Company. Reactance-coil. No. 1,389,193; Aug. 30; v. 289; p. 876.
- Harlow, Harry B., Alton, Ill., assignor to Commonwealth Steel Company, St. Louis, Mo. Molding apparatus. No. 1,401,601; Dec. 27.
- Harlow, Ivan F., assignor to The Dow Chemical Company, Midland, Mich. Making potassium carbonate. No. 1,400,542; Dec. 20.
- Harlow, Ivan O. (See Jones, S. M., and Harlow.)
- Harlow, John B., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Railway signaling system. No. 1,373,503; Apr. 5; v. 285; p. 24.
- Harlow, Thomas R., Benton City, Mo. Game-board. No. 1,396,425; Nov. 8.
- Harman, George H. (See Whitcomb, R., and Harman.)
- Harman, George T., E. Cannon, and N. C. Bettenburg, St. Paul, Minn. Brake-beam fulcrum. No. 1,374,448; Apr. 12; v. 285; p. 248.
- Harman, Jacob A., Peoria, Ill. Derrick or excavating-machine. No. 1,385,543; July 26; v. 288; p. 679.
- Harman, John F., Kansas City, Kans. Oil-burner. No. 1,382,725; June 28; v. 287; p. 621.
- Harman, Robert, York, assignor to T. Cooke & Sons, Limited, Bishopshill, York, England. Work-holder for grinding and the like machines. No. 1,383,941; July 5; v. 288; p. 141.
- Harmer, Joseph J., New York, N. Y. Arc-light. No. 1,392,497; Oct. 4.
- Harmon, Edwin L., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,387,979; Aug. 16; v. 289; p. 524.
- Harmon, Frank L., Beverly, Mass., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Duplex eyelet-machine. No. 1,379,687; May 31; v. 286; p. 886.
- Harmon, Frank L., Beverly, Mass., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Means for setting eyelets. No. 1,379,688; May 31; v. 286; p. 887.
- Harmon, George H., Inc., et al. (See Barrows, Robert Y., assignor.)
- Harmon, Lyman L., Canton, Ohio. Radiator-cap holder. No. 1,372,812; Mar. 29; v. 284; p. 792.
- Harmony-Spring Cushion Co. (See Babendererde, Walter, assignor.)
- Harmony Spring Cushion Co. (See Bills, Elmer S., assignor.)
- Harms, Albert E. (See Möller, M. W., and Harms.)
- Harmuth, Louis, South Orange, N. J., assignor to Fairchild Publishing Co., New York, N. Y. Illustrated code. No. 1,387,261; Aug. 9; v. 289; p. 328.
- Harp, James M., et al. (See Dillet, William H., assignor.)
- Harp, William F., et al. (See Dillet, William H., assignor.)
- Harp, William I., assignor of one-third to J. Linn and one-third to R. B. Todd, Galax, Va. Non-skid-chain tightener and adjuster. No. 1,378,027; May 17; v. 286; p. 424.
- Harper, Angelo C., Washington, D. C. Machine-gun. No. 1,369,426; Feb. 22; v. 283; p. 640.
- Harper, Anna R., Ames, Iowa. Traveling suitcase. No. 1,381,874; June 14; v. 287; p. 347.
- Harper, Charles W., assignor to Booth Electric Furnace Co., Chicago, Ill. Electrode-adjusting means. No. 1,366,073; Jan. 18; v. 282; p. 476.
- Harper, Edward W., assignor of one-third to C. H. Kelly, Savannah, Ga. Automatic valve. No. 1,384,950; July 19; v. 288; p. 481.
- Harper, Eugene D., assignor of one-half to C. G. Clatworthy, Toronto, Ontario, Canada. Folding garment-holder. No. 1,399,115; Dec. 6.
- Harper, Francis B., London, England. Press. No. 1,387,395; Aug. 9; v. 289; p. 356.
- Harper, George W., Cleveland, Ohio. Crank-shaft. No. 1,368,627; Feb. 15; v. 283; p. 446.
- Harper, John L., Seattle, Wash. Pneumatic-tire pump. No. 1,373,068; Mar. 29; v. 284; p. 843.
- Harper, Raymond. (See Stanbury, G. E., and Harper.)
- Harper, Sylvester Q., Fayetteville, Ga. Agricultural implement. No. 1,371,992; Mar. 15; v. 284; p. 536.
- Harper, Tom, Columbia, Miss. Well-bucket. No. 1,378,450; May 17; v. 286; p. 504.
- Harper, William, Campbell, Nebr. Means for use in installing transmission-bands for automobiles. No. 1,376,690; May 3; v. 286; p. 58.
- Harper, William D., San Antonio, Tex. Vehicle-body suspension. No. 1,366,796; Jan. 25; v. 282; p. 662.
- Harper, William D., Sydenham, Ontario, Canada. Alarm track-gage. No. 1,395,105; Oct. 25.
- Harpham, George E., Los Angeles, Calif. Trolley-retriever. No. 1,381,875; June 14; v. 287; p. 347.
- Harpham, George E., Los Angeles, Calif. Shock-absorber. No. 1,397,377; Nov. 15.
- Harpman, Charles A. (See Turner, Russell J., assignor.)
- Harpman, Charles A. (See Velcjo, John, assignor.)
- Harbold, Otto, Rosedale, Ind. Acetylene-gas lamp. No. 1,373,328; Mar. 29; v. 284; p. 895.
- Harradine, Robert W., Bondi, New South Wales, Australia. Fishing-reel. No. 1,398,429; Nov. 29.
- Harrab, Hillis A., Pomona, assignor of one-half to L. T. Leimbach, Rosedale, Kans. Tractor. No. 1,384,951; July 19; v. 288; p. 481.
- Harrab, Hillis A., Kansas City, Mo., assignor of one-half to L. T. Leimbach, Rosedale, Kans. Tractor. No. 1,384,952; July 19; v. 288; p. 481.
- Harrab, Phillip J., Bloomfield, Ind. Lifting-jack. No. 1,374,653; Apr. 12; v. 285; p. 288.
- Harrell, Annie L., Seattle, Wash. Motor. No. 1,384,256; July 12; v. 288; p. 356.
- Harrell, Arthur C. (Le Baron, L., and Harrell.)
- Harrell, John D., Belleview, Fla. Hasp. No. 1,377,344; May 10; v. 286; p. 242.
- Harrell, Rose H., Kansas City, Mo. Undergarment. No. 1,370,812; Mar. 8; v. 284; p. 247.
- Harrer, Henry A., Portland, Oreg. Chain and pendant support for personal wear. No. 1,364,195; Jan. 4; v. 282; p. 29.
- Harribey, André, and El. Combecave, Bordeaux, France. Heel-protector for boots or shoes. No. 1,366,177; Jan. 18; v. 282; p. 496.



*Alphabetical list of patentees—Continued.*

- Harrigan, Herman R., assignor to American Writing Paper Company, Holyoke, Mass. Method of and means for embossing paper. No. 1,388,641; Aug. 23; v. 289; p. 711.
- Harrigan, Thomas M., Woodstock, Vt. Bundle-tape-applying device. No. 1,396,422; Nov. 8.
- Harrild, Henry, Spokane, Wash. Combined receptacle and table. No. 1,366,652; Jan. 25; v. 282; p. 634.
- Harriman, George V., New York, N. Y. Piston. No. 1,394,898; Oct. 25.
- Harriman, Louis H., trustee. (See Daniels, Dan, assignor.)
- Harriman National Bank of the City of New York, trustee. (See Catucci, P., and Nadel, assignors.)
- Harriman National Bank of the City of New York, trustee. (See Catucci, Pliny, assignor.)
- Harriman National Bank of the City of New York, trustee. (See Nedel, Louis D., assignor.)
- Harriman National Bank of the City of New York, trustee. (See Vasselli, Anthony, assignor.)
- Harriman, Paul J., Akron, Ohio. Protractor-scale. No. 1,389,946; Sept. 6; v. 290; p. 78.
- Harrington, Allan C., Chicago, Ill. Electric stove. No. 1,388,111; Aug. 16; v. 289; p. 550.
- Harrington, Clinton O., Chicago, Ill. Electrical insulator. No. 1,386,863; Aug. 9; v. 289; p. 250.
- Harrington, Clinton O., assignor to The Union Switch & Signal Company, Swissvale, Pa. Relay. No. 1,372,688; Mar. 29; v. 284; p. 767.
- Harrington, Clinton O., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. No. 1,400,603; Dec. 20.
- Harrington, Clyde M., assignor to S. Lowitz, Chicago, Ill. Hairpin. No. 1,367,874; Feb. 8; v. 283; p. 253.
- Harrington, Eugene B., Jamestown, N. Y. Game of tiptop. No. 1,364,632; Jan. 4; v. 282; p. 113.
- Harrington, Eugene B., Jamestown, N. Y. Top-spinner. No. 1,366,535; Jan. 25; v. 282; p. 611.
- Harrington, Eugene B., assignor of one-half to C. F. Danielson, Jamestown, N. Y. Stringed musical instrument. No. 1,392,053; Sept. 27; v. 290; p. 731.
- Harrington, Frank R., assignor of one-half to F. A. Miller, Los Angeles, Calif. Self-lubricating spring. No. 1,395,494; Nov. 1.
- Harrington, Fred, San Diego, Calif. Accelerator extension-pedal for automobiles. No. 1,383,114; June 28; v. 287; p. 695.
- Harrington, George F., and A. J. Podawiltz, Eau Claire, Wis. Corpse-carrying device. No. 1,397,515; Nov. 22.
- Harrington, Joseph J., Philipsburg, Mont. Chuck-pin. No. 1,390,551; Sept. 13; v. 290; p. 291.
- Harris Accessory Company. (See Harris, William A., assignor.)
- Harris, Allan A., Randolph, assignor to F. Berenstein, Chelsea, Mass. Rubber heel. No. 1,366,797; Jan. 25; v. 282; p. 663.
- Harris, Andrew. (See Swires, James D., assignor.)
- Harris, Archer H., Barborton, assignor of one-half to E. A. Armstrong, Akron, Ohio. Tire-supporting device for tire-molds. No. 1,384,463; July 12; v. 288; p. 299.
- Harris, Arlo O., St. Louis, Mo. Vulcanizer. No. 1,370,438; Mar. 1; v. 284; p. 130.
- Harris, Arthur W., Sleepy Eye, Minn. Clutch mechanism. No. 1,398,552; Nov. 29.
- Harris Automatic Press Company, The. (See Pritchard, Carl G., assignor.)
- Harris, B., and W. Van Buren, Helena, Ark. Horseshoe. No. 1,401,074; Dec. 20.
- Harris, Benjamin, East Akron, Ohio, assignor of twenty-four per cent. to M. Lurie and twenty-five per cent. to E. Lurie. Motor-meter. No. 1,380,955; June 7; v. 287; p. 121.
- Harris, Carl C., assignor to Rodney Hunt Machine Company, Orange, Mass. Gudgeon. No. 1,379,760; May 31; v. 286; p. 899.
- Harris, Carl C., Orange, Mass., assignor to Rivet-O-Manufacturing Company. Moistening device. No. 1,394,196; Oct. 18.
- Harris, Daniel L. (See McCandless, A. C., and Harris.)
- Harris, Daniel L., Wichita, Kans. Air-cooling systems for gas-engines. No. 1,397,047; Nov. 15.
- Harris, Donald P., Jersey Shore, Pa. Device for synchronizing clutch and gear sets on motor-vehicles. No. 1,380,900; June 7; v. 287; p. 110.
- Harris, Earl R., Greencastle, Ind. Fuel-feed for internal-combustion engines. No. 1,376,201; Apr. 26; v. 285; p. 678.
- Harris, George B., et al. (See Lorenz, Ernst H. G., assignor.)
- Harris, George S., Moresby Island, British Columbia, assignor to Howard B. Harris, Pender Island, Canada. Circular-saw guide. No. 1,368,266; Feb. 15; v. 283; p. 373.
- Harris, George W., assignor of one-half to A. C. Fingerle, Modesto, Calif. Center-finder. No. 1,370,311; Mar. 1; v. 284; p. 105.
- Harris, Grace C., Monterey, Calif. Child-holder attachment for autos. No. 1,366,798; Jan. 25; v. 282; p. 663.
- Harris, Henry, London, England. Dezinizing lead. No. 1,395,820; Nov. 1.
- Harris, Henry H., Peru, Ind. Heating-stove. No. 1,389,194; Aug. 30; v. 289; p. 876.
- Harris, Henry K., Westminster, London, England. Electrical transmitting apparatus. No. 1,374,733; Apr. 12; v. 285; p. 803.
- Harris, Henry K., Westminster, London, England. Advertising and other device. No. 1,375,508; Apr. 19; v. 285; p. 514.
- Harris, Herbert C., Spokane, Wash. Highway construction. No. 1,375,960; Apr. 26; v. 285; p. 632.
- Harris, Hollis H., assignor to The Thew Shovel Company, Lorain, Ohio. Sheering mechanism for self-propelled crane-trucks. No. 1,393,119; Oct. 11.
- Harris, Hollis H., assignor to The Thew Shovel Company, Lorain, Ohio. Spring-truck. No. 1,393,360; Oct. 11.
- Harris, Hollis H., assignor to The Thew Shovel Company, Lorain, Ohio. Power-shovel. No. 1,393,361; Oct. 11.
- Harris, Hollis H., assignor to The Thew Shovel Company, Lorain, Ohio. Power-shovel. No. 1,393,362; Oct. 11.
- Harris, Hollis H., assignor, by mesne assignments, to The Thew Shovel Company, Lorain, Ohio. Convertible excavating-machine. No. 1,393,363; Oct. 11.
- Harris, Howard B. (See Harris, George S., assignor.)
- Harris, Hugh H., Alexandria, Va. Combined clip and thermometer-carrier. No. 1,377,578; May 10; v. 286; p. 285.
- Harris, Irvin H., Evanston, Wyo. Heating unit for washing-machines. No. 1,374,202; Apr. 12; v. 285; p. 200.
- Harris, J. H., et al. (See Lorenz, Ernst H. J., assignor.)
- Harris, James L., et al. (See Lorenz, Ernest H. J., assignor.)
- Harris, James W., Turberville, S. C. Harrow. No. 1,383,942; July 5; v. 288; p. 142.
- Harris, John, Lakewood, Ohio. Machine for cutting and welding with fluid fuel. No. 1,389,046; Aug. 30; v. 289; p. 846.
- Harris, John H., et al. (See Lorenz, Ernest H. J., assignor.)
- Harris, Jonathan W., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnet-core. No. 1,381,460; June 14; v. 287; p. 268.
- Harris, Joseph A., Palmyra, Nebr. Furrow-opener. No. 1,390,437; Sept. 13; v. 290; p. 267.
- Harris, Joseph B., Cleveland, Ohio. Demountable rim. No. 1,377,771; May 10; v. 286; p. 322.
- Harris, Lexia, Provo, Utah. Leg protector and support. No. 1,380,901; June 7; v. 281; p. 111.
- Harris, Louis J. (See Dragner, H., and Harris.)
- Harris, Morris C., San Jose, Calif. Type-cabinet and equipment therefor. No. 1,396,199; Nov. 8.
- Harris, Ralph W., Newark, Ohio. Engine attachment. No. 1,382,285; June 21; v. 287; p. 483.
- Harris, Rex, Ocean Beach, Calif. Wave-motor. No. 1,379,183; May 24; v. 286; p. 717.
- Harris, Rex., San Diego, Calif. Aeroplane-engine-starting apparatus. No. 1,400,745; Dec. 20.
- Harris, Robert E., El Paso, Tex. Locking device for motor-vehicles. No. 1,376,876; May 3; v. 286; p. 95.
- Harris, Robert E., El Paso, Tex. Locking device for motor-vehicles. No. 1,382,189; June 21; v. 287; p. 464.
- Harris, Robert E., El Paso, Tex. Locking device for motor-vehicles. No. 1,382,190; June 21; v. 287; p. 464.
- Harris, Smith, South Shaftsbury, Vt. Salt and pepper shaker. No. 1,388,036; Aug. 16; v. 289; p. 535.
- Harris, Thomas, Ravenswood, N. Y. Hand-truck. No. 1,367,316; Feb. 1; v. 283; p. 86.
- Harris, Thomas B., assignor, by mesne assignments, to American Signal Company, Statesville, N. C. Signal. No. 1,371,971; Mar. 15; v. 284; p. 532.
- Harris, Thomas P., Clarinda, Iowa. Radiator-protector. No. 1,386,174; Aug. 2; v. 289; p. 42.
- Harris, Walter A., deceased; N. E. Howard, administratrix, assignor of one-half to J. H. Dodd, Palestine, Tex. Vehicle spring-wheel. No. 1,366,450; Jan. 25; v. 282; p. 593.
- Harris, Ward R., Moore, Tex. Gasolene-purifier. No. 1,364,435; Jan. 4; v. 282; p. 76.
- Harris, Warren E., Emmett, Idaho. Calculating device. No. 1,401,692; Dec. 27.
- Harris, William, Cambridge, Ohio. Rolling-pin. No. 1,385,916; July 26; v. 288; p. 754.
- Harris, William, Jr., St. Louis, Mo. Side frame for car-trucks. No. 1,374,734; Apr. 12; v. 285; p. 803.
- Harris, William A., assignor to Harris Accessory Company, Greenville, S. C. Low-pressure alarm for pneumatic tires. No. 1,368,927; Feb. 15; v. 283; p. 504.
- Harris, William H., Laurium, Mich. Calipers. No. 1,388,705; Aug. 23; v. 289; p. 723.
- Harris, William K., assignor to Salem Manufacturing Company, Salem, N. J. Linoleum or like printing machine. No. 1,384,024; July 5; v. 288; p. 159.
- Harris, William L., New York, N. Y. Metallic packing. No. 1,383,943; July 5; v. 288; p. 142.
- Harris, William S., W. Cronan, and F. I. Jackson, Bremerton, Wash. Automobile direction-signal. No. 1,391,954; Sept. 27; v. 290; p. 710.
- Harris, William T., Harrodsburg, Ky. Brake. No. 1,385,544; July 26; v. 288; p. 679.
- Harris, William W., New York, N. Y. Refuse-vehicle. No. 1,400,543; Dec. 20.



*Alphabetical list of patentees—Continued.*

- Harrison, Arthur W. (See Farrington, Herbert O., assignor.)
- Harrison, Burt S., Brooklyn, assignor to Carrier Engineering Corporation, New York, N. Y. Drying vegetables and fruits. No. 1,387,710; Aug. 16; v. 289; p. 471.
- Harrison, C. M. L., Antlers, Okla. Boil-weevil destroyer. No. 1,380,902; June 7; v. 287; p. 111.
- Harrison, Henry C., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-receiver. No. 1,396,747; Nov. 15.
- Harrison, James M., Cleveland, Ohio. Damper control for heat-exchange apparatus. No. 1,392,761; Oct. 4.
- Harrison, James M., Cleveland, Ohio. Apparatus for heat-interchange. No. 1,397,097; Nov. 15.
- Harrison, Jerome G., Philadelphia, Pa. Lifting-jack. No. 1,389,504; Aug. 30; v. 289; p. 937.
- Harrison, John J., Portland, Oreg. Automobile-bumper lock. No. 1,396,369; Nov. 8.
- Harrison, John W. (See Mayberry, De Ella B., assignor.)
- Harrison, Laurence D., Phoenix, Ariz. Telephone-call register. No. 1,367,383; Feb. 1; v. 283; p. 100.
- Harrison, Milo B., Los Angeles, Calif. Device for lining and refining brake-bands. No. 1,391,894; Sept. 27; v. 290; p. 698.
- Harrison, Simon H., assignor of one-half to S. W. Hartwell, Easton, Pa. Kilm and firebrick therefor. No. 1,374,203; Apr. 12; v. 285; p. 200.
- Harrison, Thomas, Weston, Ontario, Canada. Pin-tray. No. 1,366,260; Jan. 18; v. 282; p. 512.
- Harrison, Thomas, Weston, Ontario, Canada. Nutcracker. No. 1,367,384; Feb. 1; v. 283; p. 100.
- Harrison, Thomas, Weston, Ontario, Canada. Toothbrush. No. 1,367,385; Feb. 1; v. 283; p. 100.
- Harrison, Thomas, Weston, Ontario, Canada. Pin-package. No. 1,379,624; May 31; v. 286; p. 875.
- Harrison, Thomas Q., Denver, Colo. Permanent calendar. No. 1,378,376; May 17; v. 286; p. 490.
- Harrison, Walter D., and F. E. Best, Seattle, Wash. Time-controlled switch. No. 1,367,699; Feb. 8; v. 283; p. 219.
- Harrison, Ward, Cleveland, Ohio, assignor to General Electric Company. Lighting-fixture. No. 1,374,654; Apr. 12; v. 285; p. 288.
- Harrison, William E., Union City, Ind. Placard-sustaining means. No. 1,384,757; July 19; v. 288; p. 441.
- Harriss, Belle C., New Rochelle, N. Y. Hose-supporter. No. 1,373,239; Mar. 29; v. 284; p. 878.
- Harroun, William L., Ellensburg, N. Y. Flush-valve. No. 1,374,655; Apr. 12; v. 285; p. 288.
- Harry, Robert J., Homestead, and Charles S. Proudfoot, Johnstown, Pa. Hoisting mechanism. No. 1,370,644; Mar. 8; v. 284; p. 215.
- Harsel, William B., assignor to Goodyear Tire & Rubber Company, Akron, Ohio. Tire-machine. No. 1,374,449; Apr. 12; v. 285; p. 248.
- Harsel, William B., and E. Nall, deceased, by E. A. Nall, executrix, assignors to The Goodyear Tire & Rubber Co., Akron, Ohio. Tire-making machine. No. 1,395,055; Oct. 25.
- Harsel, William B., and E. Nall, deceased, Akron, E. A. Nall, Cuyahoga Falls, executrix, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making machine. No. 1,395,182; Oct. 25.
- Harsel, William B., and E. Nall, deceased, Akron, E. A. Nall, Cuyahoga Falls, executrix, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making machine. No. 1,395,183; Oct. 25.
- Harsen, William N., Attica, assignor of one-half to L. T. Dennis and H. E. Palmer, Imlay City, Mich. Wire-fence stretcher. No. 1,371,026; Mar. 8; v. 284; p. 287.
- Harsen, William N., Attica, assignor of one-third to H. E. Palmer and one-third to L. T. Dennis, Imlay City, Mich. Lifting-jack. No. 1,395,821; Nov. 1.
- Harshberger, Russell P., Chicago, Ill. Safety-razor. No. 1,394,827; Oct. 25.
- Harsley, John W., and M. P. Apgar, New York, N. Y. Combination spring-compressor and spring-clamp. No. 1,389,657; Sept. 6; v. 290; p. 20.
- Hart, Carl O. (See Gerrard, Frederick J., assignor.)
- Hart, David B., New York, N. Y. Trunk construction. No. 1,398,016; Nov. 22.
- Hart, Eady, Ballarat East, Victoria, assignor of one-half to I. J. Stewart, Ballarat West, Victoria, Australia. Dyestuff and mode of producing it. No. 1,399,014; Dec. 6.
- Hart, Edison W. (See Shertzer, Leavitt A., assignor.)
- Hart, Franklin H., assignor to C. Cowles & Co., New Haven, Conn. Window-fastener. No. 1,370,109; Mar. 1; v. 284; p. 67.
- Hart, Franklin H., New Haven, Conn., assignor to C. Cowles & Company. Curtain roller and bracket. No. 1,378,347; May 17; v. 286; p. 484.
- Hart, Fred V., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Producing and handling wedge-lifts. No. 1,371,369; Mar. 15; v. 284; p. 416.
- Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,370,312; Mar. 1; v. 284; p. 106.
- Hart, Frederick A., Newark, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,382,286; June 21; v. 287; p. 483.
- Hart, Frederick A., Jersey City, N. J., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,387,711; Aug. 16; v. 289; p. 471.
- Hart, Frederick A., Jersey City, N. J., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,388,257; Aug. 23; v. 289; p. 635.
- Hart, Gilbert J., New Haven, Conn. Hat-guard. No. 1,376,202; Apr. 26; v. 285; p. 678.
- Hart, H. C., et al. (See Shepard, Wilbur L., assignor.)
- Hart, Harry S., Chicago, Ill. Dump-door-operating mechanism. No. 1,368,720; Feb. 15; v. 283; p. 464.
- Hart, Harry S., Chicago, Ill. Dump-car. No. 1,389,350; Aug. 30; v. 289; p. 907.
- Hart, Harry S., Chicago, Ill. Railway-car construction. No. 1,398,512; Nov. 29.
- Hart, Harry S., Chicago, Ill. Dump-car-door-operating mechanism. No. 1,400,544; Dec. 20.
- Hart, Harry S., assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism. No. 1,380,377; June 7; v. 287; p. 10.
- Hart, Harry S., assignor to Rodger Ballast Car Company, Chicago, Ill. Convertible-car construction. No. 1,397,686; Nov. 22.
- Hart, Harry S., assignor to Rodger Ballast Car Company, Chicago, Ill. Dump-car. No. 1,398,375; Nov. 29.
- Hart & Hegeman Manufacturing Company, The. (See Stirling, Clarence C., assignor.)
- Hart, Herbert G. (See Dotti, J., and Hart.)
- Hart, Herbert H. (See Morgan, Orlando K., assignor.)
- Hart, Herbert H., Orcutt, Calif. Fan housing cooling extension. (Reissue.) No. 15,178; Aug. 16; v. 289; p. 558.
- Hart, Hubert C., Unionville, Conn. Handled implement. No. 1,376,764; May 3; v. 286; p. 72.
- Hart, Joe H., Fillmore, Calif. Antisander for piston-pumps. No. 1,379,302; May 24; v. 286; p. 739.
- Hart, Lewis B., Plaquemine, La. Surgical appliance. No. 1,383,944; July 5; v. 288; p. 142.
- Hart, Lewis J., and F. R. White, assignors to The Patent Butter Company, Waterbury, Conn. Button. No. 1,378,108; May 17; v. 286; p. 440.
- Hart, Loren D., Dickens, Iowa. Silo and ensilage-feeding structure. No. 1,375,961; Apr. 26; v. 285; p. 632.
- Hart, Lorren M., New York, N. Y. Amplifying system for a complex sound-vibration source. No. 1,398,965; Dec. 6.
- Hart, Mildred L., administratrix. (See Lowry, Frederick S.)
- Hart, Seth, and R. I. Eustis, Los Angeles, Calif. Adjustable propeller. No. 1,366,074; Jan. 18; v. 282; p. 476.
- Hart, Thomas J., Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor-overload regulator. No. 1,378,028; May 17; v. 286; p. 424.
- Hart, William E., Bowden, Okla. Wrench. No. 1,400,285; Dec. 13.
- Hart, William E., assignor to Hart's Auto Signal Tail Light Co., San Jose, Calif. Signal control. No. 1,389,138; Aug. 30; v. 289; p. 865.
- Hart, William H., Green Bay, Wis. Oil-cup. No. 1,367,471; Feb. 1; v. 283; p. 117.
- Hart, William J. (See Mason, C. T., and Hart.)
- Hartbauer, August W. L., Detroit, Mich. Cellular radiator. No. 1,399,767; Dec. 13.
- Hartel Brothers & Co. (See Wales, Ralph W., assignor.)
- Hartel, Henry W., Philadelphia, Pa. Cut-out for internal-combustion engines. No. 1,383,400; July 5; v. 288; p. 30.
- Harter, Augustus F., Oak Park, assignor to Cribben & Sexton Company, Chicago, Ill. Hot-air furnace. No. 1,398,264; Nov. 29.
- Harter, Frank B. (See Du Bois, J. T., and Harter.)
- Hartfield, August J., Los Angeles, Calif. Flameless stackless heater. No. 1,371,481; Mar. 15; v. 284; p. 439.
- Hartford, Edward V., Inc. (See Hartford, Edward V., assignor.)
- Hartford, Edward V. (See Mastrangel, Louis, assignor.)
- Hartford, Edward V., Inc. (See Mayer, Arthur, assignor.)
- Hartford, Edward V., Deal, N. J. Electrical starter. No. 1,364,854; Jan. 4; v. 282; p. 155.
- Hartford, Edward V., Deal, N. J. Submarine-trap. No. 1,365,490; Jan. 11; v. 282; p. 322.
- Hartford, Edward V., Deal, N. J. Electric switch. No. 1,391,955; Sept. 27; v. 290; p. 711.
- Hartford, Edward V., Deal, N. J. Electrically-operated brake. No. 1,396,426; Nov. 8.
- Hartford, Edward V., Deal, N. J., assignor to E. V. Hartford, Inc., New York, N. Y. Spring-retarding device. No. 1,401,252; Dec. 27.
- Hartford, Edward V., Deal, and Louis Mastrangel, Hoboken, N. J.; said Mastrangel assignor to said Hartford. System for generating, storing, distributing, and utilizing electrical energy. No. 1,364,852; Jan. 4; v. 282; p. 155.



- Hartford, Edward V., Deal, and L. Mastrangel, Hoboken, N. J.; said Mastrangel assignor to said Hartford. Engine-starter. No. 1,364,853; Jan. 4; v. 282; p. 155.
- Hartford-Fairmont Company. (See Feiler, Karl E., assignor.)
- Hartford Machine Gun Company, The. (See Reising, Eugene G., assignor.)
- Hartford Rubber Works Company, The. (See Gilson, Henry R., assignor.)
- Hartford Rubber Works Company, The. (See Lough, Hector V., assignor.)
- Hartford Rubber Works Company, The. (See Steinle, William J., assignor.)
- Hartford Special Machinery Company, The. (See La pointe, Donald H., assignor.)
- Harthan, John F. (See von Bichowsky, F., and Harthan.)
- Harthan, John F., and F. von Bichowsky, Pomona, Calif. Protected metal tube and the like. No. 1,368,395; Feb. 15; v. 283; p. 400.
- Hartl, Fred B., Chicago, Ill. Timer wire system. No. 1,371,419; Mar. 15; v. 284; p. 426.
- Hartleb, Rudolph C., and T. J. Levey, Baltimore, assignors to The Cambridge Mechanical Toy Company, Cambridge, Md. Figure wheeled toy. No. 1,391,829; Sept. 27; v. 290; p. 685.
- Hartley, Abraham L., Silver City, Utah. Valve for fuel-tank closure-plugs. No. 1,372,506; Mar. 22; v. 284; p. 691.
- Hartley Clock Company. (See Hartley, John S., assignor.)
- Hartley, Frank, Shipley, and T. Kelley, Bradford, England. Bur-crushing mechanism. No. 1,367,700; Feb. 8; v. 283; p. 219.
- Hartley, James, Philadelphia, Pa. Sprinkler-head for automatic sprinkling devices. No. 1,381,551; June 14; v. 287; p. 285.
- Hartley, John S., Lynn, Mass., assignor to Hartley Clock Company. Alarm-clock. No. 1,369,427; Feb. 22; v. 283; p. 640.
- Hartley, John W. (See Roper, E. A., and Hartley.)
- Hartley, Ralph V. L., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Receiving apparatus for wave-signaling. No. 1,387,262; Aug. 9; v. 289; p. 328.
- Hartley, Stephen J. (See Barnard, Alfred W. A., assignor.)
- Hartman, Anthony W. H., *et al.* (See Schuster, Carl J., assignor.)
- Hartman, Earl R. (See Anderson, W., and Hartman.)
- Hartman, Ellés E., New York, N. Y., assignor of one-third to E. E. Hartman, New York, N. Y., and one-third to A. P. Campbell, Wichita, Kans. Airplane. No. 1,371,240; Mar. 15; v. 284; p. 390.
- Hartman, Ellés E., New York, N. Y., assignor of one-third to E. E. Hartman, New York, N. Y., and one-third to A. P. Campbell, Wichita, Kans. Airplane. No. 1,371,241; Mar. 15; v. 284; p. 390.
- Hartman, Ethel E., *et al.* (See Hartman, Ellés E., assignor.)
- Hartman, Ferdinand Q., Danville, Pa. Thread-guide and attachment. No. 1,385,047; July 19; v. 288; p. 501.
- Hartman, Ferdinand Q., Danville, Pa. Thread-breaking device for spinning-machines. No. 1,397,283; Nov. 15.
- Hartman, Frank E. (See Hartman, Harry B. and F. E.)
- Hartman, Harry B., assignor to Electric Water Sterilizer and Ozone Company, Scottsdale, Pa. Dehydrator. No. 1,376,691; May 3; v. 286; p. 58.
- Hartman, Harry B. and F. E., Scottsdale, Pa., assignors to Electric Water Sterilizer and Ozone Company. Drying or setting paints, varnishes, enamels, or the like. No. 1,395,569; Nov. 1.
- Hartman, Jacob G., Baltimore, Md. Vehicle-wheel. No. 1,381,828; June 14; v. 287; p. 337.
- Hartman, John, Milwaukee, Wis. Vegetable-cutting machine. No. 1,378,451; May 17; v. 286; p. 504.
- Hartman, John G., Yakima, Wash. Box-handling device. No. 1,386,929; Aug. 9; v. 289; p. 264.
- Hartman, Louis H., assignor to The Valve Bag Company, Toledo, Ohio. Automatic receptacle-filling machine. No. 1,401,401; Dec. 27.
- Hartman, Maurice. (See Wachtel, Charles, assignor.)
- Hartman, Noble W., Toledo, assignor to The Continental Tractor Company, Continental, Ohio. Tractor driving-gear. No. 1,378,228; May 17; v. 286; p. 462.
- Hartman, Robert R., Chicago, Ill. Nostril-cleaning device. No. 1,381,829; June 14; v. 287; p. 337.
- Hartman, Rudolph B., Milwaukee, Wis. Reinforced concrete construction. No. 1,379,625; May 31; v. 286; p. 875.
- Hartmann, Carl, assignor of one-half to J. H. Faust, Mount Vernon, N. Y. Railway mail-transfer device. No. 1,381,461; June 14; v. 287; p. 268.
- Hartmann, Julius F. G. P., Copenhagen, Denmark. Electric contact device. No. 1,365,491; Jan. 11; v. 282; p. 322.
- Hartmann, Miner L., assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory material. No. 1,376,091; Apr. 26; v. 285; p. 658.
- Hartmann, Sidney A., St. Louis, Mo. Detergent. No. 1,387,153; Aug. 9; v. 289; p. 308.
- Hartmeyer, August, Los Angeles, Calif. Curtain-rod. No. 1,374,563; Apr. 12; v. 285; p. 270.
- Hartmeyer, Lewis I., Cleveland, Ohio. Automobile-marking device. No. 1,377,345; May 10; v. 286; p. 242.
- Hartner, Fritz, Homburg-vor-der-Höhe, Germany. Mortar-forming material. No. 1,371,762; Mar. 15; v. 284; p. 492.
- Hartness, James, Springfield, Vt. Inspecting and gaging screw-threads. No. 1,377,068; May 3; v. 286; p. 131.
- Hartness, James, Springfield, Vt. Mechanism for gaging screw-threads. No. 1,377,069; May 3; v. 286; p. 132.
- Hartnett, Raymond T., Port Carbon, Pa. Ash-remover. No. 1,365,781; Jan. 18; v. 282; p. 419.
- Hartog, Stephen D., St. Louis, Mo. Piston for reciprocating engines. No. 1,398,689; Nov. 29.
- Hartog, Stephen D., St. Louis, Mo. Piston. No. 1,398,690; Nov. 29.
- Hartog, Stephen D., assignor, by mesne assignments, to Inland Machine Works, St. Louis, Mo. Piston-ring. No. 1,386,707; Aug. 9; v. 289; p. 219.
- Hartong, Robert C., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Rubber mix and compounding rubber. No. 1,370,965; Mar. 8; v. 284; p. 275.
- Hartong, Robert C., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Compounding of rubber compounds. No. 1,396,837; Nov. 15.
- Hartrampf, Gustav A., and J. R. Houchin, Atlanta, Ga. Combined lock and alarm. No. 1,370,439; Mar. 1; v. 284; p. 130.
- Hart's Auto Signal Tail Light Co. (See Hart, William E., assignor.)
- Hartsborne & Battelle. (See Evans, Fred, assignor.)
- Hartssock, Sherman C., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Draft means for vehicles. No. 1,379,982; May 31; v. 286; p. 942.
- Hartssock, Sherman C., assignor to D. M. Sechler Implement & Carriage Company, Moline, Ill. Bolster for vehicles. No. 1,383,203; June 28; v. 287; p. 712.
- Hartsough, Ralph B., assignor to Flour City Plov Company, Minneapolis, Minn. Plov. No. 1,398,075; Nov. 22.
- Hartt, Charles M., *et al.* (See Turner, Alan L., assignor.)
- Hartung, Charles F., Alhambra, Calif. Storage-battery clip. No. 1,366,799; Jan. 25; v. 282; p. 663.
- Hartung, Edmund, Jersey City, N. J. Automatic butter-dispenser. No. 1,399,768; Dec. 13.
- Hartung, Harry H., Boston, Mass. Power-transmitting device. No. 1,380,714; June 7; v. 287; p. 74.
- Hartwell, Benjamin F., Revere, Mass. Machine for grading soles, &c. No. 1,368,721; Feb. 15; v. 283; p. 465.
- Hartwell, Jean F. (See Coats, F. R., and Hartwell.)
- Hartwell, Joseph C., assignor to General Fire Extinguisher Company, Providence, R. I. Hot-water heating system. No. 1,378,348; May 17; v. 286; p. 484.
- Hartwell, S. Warren. (See Harrison, Simon H., assignor.)
- Hartwig, Elizabeth. (See Hartwig, Fred C., assignor.)
- Hartwig, Fred C., assignor to Hartwig, Chicago, Ill. Rail-joint. No. 1,373,240; Mar. 29; v. 284; p. 878.
- Hartwig, George, St. Louis, Mo. Piston-rod connection. No. 1,401,075; Dec. 20.
- Hartwig William G., assignor to Railway Utility Company, Chicago, Ill. Regulator for electric heating systems. No. 1,365,782; Jan. 18; v. 282; p. 419.
- Hartwig, William G., assignor to Railway Utility Company, Chicago, Ill. Thermostat. No. 1,386,618; Aug. 9; v. 289; p. 200.
- Hartwig, William G., assignor to A. Frantzen, Chicago, Ill. Electrically-controlled switch mechanism. No. 1,399,116; Dec. 6.
- Hartwig, William J. (See Cullin, Jasper F., assignor.)
- Hartwig, William J. (See Moore, William E., assignor.)
- Hartzell, Clyde C., Pittsburgh, Pa. Fastener for sectional coal-auger nuts. No. 1,368,928; Feb. 15; v. 283; p. 504.
- Hartzell, Forest H., Dayton, Ohio. Electroplating-barrel. No. 1,377,155; May 3; v. 286; p. 147.
- Hartzell, Forest H., Dayton, Ohio. Electroplating apparatus. No. 1,388,337; Aug. 23; v. 289; p. 652.
- Hartzell, Harry F. (See Hartzell, James H. and H. F., assignors.)
- Hartzell, James H. and H. F., Lakeland, Fla. Receptacle-support and advertising-exhibitor. No. 1,373,963; Apr. 5; v. 285; p. 114.
- Hartzell Sales Company, The. (See Mason, Julius H., assignor.) (Reissue.)
- Harvey, A. L., and G. W. Huey, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,381,302; June 14; v. 287; p. 238.
- Harvey, Albert L., Braddock township, Allegheny county, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,390,552; Sept. 13; v. 290; p. 291.
- Harvey, Alden W., *et al.* (See Erik, Emil, assignor.)
- Harvey, Charles H., assignor, by mesne assignments, to The General Electric Company, Ltd., London, England. Means for supporting electrodes in ionic tubes. No. 1,389,351; Aug. 30; v. 289; p. 907.
- Harvey, Corbon L., St. Louis, Mo. Rack for loose-leaf volumes. No. 1,367,875; Feb. 8; v. 283; p. 253.
- Harvey, Corbon L., St. Louis, Mo. Loose-leaf binder. No. 1,385,745; July 26; v. 288; p. 720.
- Harvey, Curran W., *et al.* (See Fast, Gustave, assignor.)
- Harvey, Edward M., Eugene, Oreg. Lamp-shade. No. 1,374,735; Apr. 12; v. 285; p. 303.



*Alphabetical list of patentees—Continued.*

- Harvey, Ellery H., Lansdale, Pa., assignor to Perkins Glue Company. Modifying starch. No. 1,366,653; Jan. 25; v. 282; p. 634.
- Harvey, F. Barton, *et al.* (See Fast, Gustave, assignor.)
- Harvey Frost & Company Limited. (See Frost, William, assignor.)
- Harvey Frost & Company. (See Welch, Walter H., assignor.)
- Harvey, John E., Milton, Mass. Sterilizer. No. 1,365,686; Jan. 18; v. 282; p. 399.
- Harvey, Leaman S., assignor to Lane Manufacturing Company, Waterbury, Conn. Ball-and-socket fastener. No. 1,376,765; May 3; v. 286; p. 72.
- Harvey, Leonard C., Malden, and H. S. Buckley, Westminster, London, England. Means for feeding powdered fuel to furnaces. No. 1,389,828; Sept. 6; v. 290; p. 54.
- Harvey, Louis R., Buffalo, N. Y. Projectile-thrower. No. 1,400,058; Dec. 13.
- Harvey, Louis B., Stockton, Calif., assignor to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Rim construction for disk wheels. No. 1,376,808; May 3; v. 286; p. 81.
- Harvey, Louis B., Stockton, Calif., assignor to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Driving-arch for wheel-fellies. No. 1,389,139; Aug. 30; v. 289; p. 865.
- Harvey, Louis B., assignor to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Fixed rim and locking-ring structure for demountable rims. No. 1,399,961; Dec. 13.
- Harvey, Michael, Brooklyn, N. Y. Calendar-holder for display-cards. No. 1,368,257; Feb. 15; v. 283; p. 374.
- Harvey, Richard C., Lethbridge, Alberta, Canada. Machine for docking lambs' tails. No. 1,399,479; Dec. 6.
- Harvey Rim & Wheel Company. (See Harvey, Louis B., assignor.)
- Harvey, Thomas C., Carrollton, Miss. Wheel. No. 1,400,434; Dec. 13.
- Harvey, Vivian, and C. D. Harding, Platteville, Mo. Puncture-proof-tube protector for automobile-tires. No. 1,396,200; Nov. 8.
- Harvey, Walter J., Toronto, Ontario, Canada. Device for concentration of light-rays. No. 1,367,472; Feb. 1; v. 283; p. 117.
- Harvey, Walter J., Toronto, Ontario, Canada. Solar motor. No. 1,386,781; Aug. 9; v. 289; p. 233.
- Harvey, William A., Scranton, Pa. Portable electric lamp. No. 1,380,143; May 31; v. 286; p. 972.
- Harvey, William A., Scranton, Pa. Electric chandelier fixture. No. 1,380,144; May 31; v. 286; p. 973.
- Harvey, William C., *et al.* (See Brown, William E., assignor.)
- Harward, John H., Lawrence, Mass. Door-buffer. No. 1,385,448; July 26; v. 288; p. 659.
- Harwell, John S., Murrycross, Ala. Furrow-marker. No. 1,378,788; May 17; v. 286; p. 570.
- Harwood, George S., & Son. (See Howe, Joseph B., assignor.)
- Harwood, Leon M., Springfield, Mass. Device for applying metallic leaf. No. 1,373,424; Apr. 5; v. 285; p. 8.
- Hasburg John W., Chicago, Ill. Paint-package. No. 1,366,654; Jan. 25; v. 282; p. 634.
- Hasburg, John W., Chicago, Ill. Paint-package. No. 1,375,001; Apr. 19; v. 285; p. 417.
- Haseltine, Stacy B., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-yoke for railway-car draft-rigging. No. 1,369,654; Feb. 22; v. 283; p. 685.
- Haseltine, Stacy B., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-yoke for railway-car draft-rigging. No. 1,369,655; Feb. 22; v. 283; p. 685.
- Haseltine, Stacy B., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,398,691; Nov. 29.
- Haseltine, Stacy B., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,398,692; Nov. 29.
- Hashimoto, Shozaburo, Seattle, Wash. Imitation stone and manufacturing same. No. 1,377,180; May 3; v. 286; p. 143.
- Haskel, Fred, Detroit, Mich. Shim. No. 1,379,816; May 31; v. 286; p. 910.
- Haskell, George D., Concord, assignor to United States Machine Gun Company, Boston, Mass. Machine-gun. No. 1,379,339; May 24; v. 286; p. 747.
- Haskelite Manufacturing Corporation. (See Beiger, John W., assignor.)
- Haskelite Manufacturing Corporation. (See Elmendorf, Armin, assignor.)
- Haskelite Manufacturing Corporation. (See Meyercord, George R., assignor.)
- Haskelite Mfg. Corporation. (See Aatila, Julle B., assignor.)
- Haskell, Broderick, Franklin, Pa. Railway-brake indicator. No. 1,391,895; Sept. 27; v. 290; p. 698.
- Haskell, Walter F., Westbrook, Me. Warp-dyeing machine. No. 1,375,389; Apr. 19; v. 285; p. 491.
- Haskell, Walter N., Sterling, Ill. Suitcase. No. 1,367,043; Feb. 1; v. 283; p. 32.
- Haskins, Elbert O., Rutherford, N. J., assignor to Richmond Radiator Company. Sectional boiler. No. 1,391,381; Sept. 20; v. 290; p. 521.
- Haslam, Joseph C., San Francisco, Calif. Garter. No. 1,367,778; Feb. 8; v. 283; p. 234.
- Haslam, Joseph C., San Francisco, Calif. Hat-shaping device. No. 1,395,106; Oct. 25.
- Haslam & Stretton Limited. (See Jones, John W., assignor.)
- Haslam & Stretton Limited. (See Stretton, Theodore, assignor.)
- Haslett, John D., Philadelphia, Pa. Hasp. No. 1,371,087; Mar. 8; v. 284; p. 299.
- Haslinger, Anton, Philadelphia, Pa. Thermal circuit-closer. No. 1,387,050; Aug. 9; v. 289; p. 288.
- Haslup, Dodson, Grafton, W. Va. Bottle-cap remover. No. 1,376,692; May 3; v. 286; p. 58.
- Haslup, Edward W., Bronxville, N. Y. Filter for gases and liquids. No. 1,366,655; Jan. 25; v. 282; p. 634.
- Haslup, Edward W., Bronxville, N. Y. Metal screen or separator for gases. No. 1,382,975; June 28; v. 287; p. 668.
- Hassam, Walter E., assignor to W. N. Stark, Worcester, Mass. Pavement. No. 1,365,687; Jan. 18; v. 282; p. 400.
- Hasse, Frederick A., and R. Morris, Benton Harbor, Mich. Oil-can. No. 1,380,956; June 7; v. 287; p. 121.
- Hasselbarth-Whiton Co. (See Whiton, Robert P., assignor.)
- Hasselgren, Carl P., Superior, Wis. Flytrap. No. 1,369,242; Feb. 22; v. 283; p. 605.
- Hasselquist, Hugo S., Chicago, Ill., assignor, by mesne assignments, to The Wahl Company, Wilmington, Del. Fountain-pen. No. 1,367,255; Feb. 1; v. 283; p. 74.
- Hasskarl, William S., Philadelphia, Pa. Fan. No. 1,388,037; Aug. 16; v. 289; p. 535.
- Hassler, Franz, Hamburg, Germany, assignor to A. Kuttroff, New York, N. Y. Readily-soluble tanning agent. No. 1,390,205; Sept. 6; v. 290; p. 129.
- Hassler, Robert H., Indianapolis, Ind. Shock absorber for vehicles. (Reissue.) No. 15,018; Jan. 4; v. 282; p. 156.
- Hassler, Robert P., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for marking rubber strips. No. 1,395,410; Nov. 1.
- Hassler, Paul M., assignor to The Loudon Machinery Company, Fairfield, Iowa. Brake for overhead carriers. No. 1,386,496; Aug. 2; v. 289; p. 103.
- Hastie, Thomas H. (See Rouch, J. A., and Hastie.)
- Hastings, Charles E., Chicago, Ill., assignor to National Dairy Machine Company, Goshen, Ind. Side-car attachment for motorcycle. No. 1,392,938; Oct. 11.
- Hastings, Charles S., New Haven, Conn. Lens system for terrestrial telescopes. No. 1,395,822; Nov. 1.
- Hastings, Cornelius G., Glendale, Calif. Reinforced blocks and interlocking means therefor. No. 1,381,119; June 14; v. 287; p. 205.
- Hastings, Grover C., Memphis, Tenn. Monument-mold. No. 1,387,263; Aug. 9; v. 289; p. 328.
- Hastings, Henry E., W. L. Farley, and A. F. Sulzer, assignors to Eastman Kodak Company, Rochester, N. Y. Sealed metallic receptacle. No. 1,386,619; Aug. 9; v. 289; p. 200.
- Hastings, Herbert, Brighton, N. Y. Fluid-level indicator. No. 1,365,099; Jan. 11; v. 282; p. 247.
- Hastings, Herbert, Brighton, N. Y. Fluid-gage. No. 1,379,404; May 24; v. 286; p. 759.
- Hastings, Herbert, Brighton, N. Y. Combined fluid-level indicator and reserve-valve. No. 1,392,415; Oct. 4.
- Hastings, Herbert, Brighton, N. Y. Pressure-gage. No. 1,399,117; Dec. 6.
- Hastings Manufacturing Company. (See Johnson, A. E., and Taffee, assignors.)
- Hastings Manufacturing Company. (See Taffee, Leo. H., assignor.)
- Hastings, Odie L. (See Iles, E. J., and Hastings.) (Reissue.)
- Hastings, Ralph, Ingraham, Ill. Mud-guard. No. 1,374,917; Apr. 19; v. 285; p. 401.
- Hastings, Roger W., and Clark W. Parker, New York, N. Y.; said Hastings assignor to said Parker. Oil-retainer. No. 1,381,120; June 14; v. 287; p. 206.
- Hastings, Rolland T. R., Highland Park, assignor to Sanitax Brush Company, Chicago, Ill. Brush and making the same. No. 1,375,755; Apr. 26; v. 285; p. 593.
- Hastings, Rolland T. R. (See Poppenhusen, H. A., and Hastings.)
- Hastings, Ruben C. M., assignor to International Telephone Company, Columbus, Ohio. Selective telephone system. No. 1,392,762; Oct. 4.
- Hastings, Russell, Brookline, Mass. Photographic stand. No. 1,365,688; Jan. 18; v. 282; p. 400.
- Hastings, Walter G., Battle Creek, Mich. Abradant-supplying apparatus. No. 1,390,128; Sept. 6; v. 290; p. 115.
- Hasty, Cecil K., What Cheer, Iowa. Hog-holder. No. 1,388,258; Aug. 23; v. 289; p. 636.
- Hasty, John B., San Bernardino, Calif., assignor to T. Brown, Chicago, Ill. Chuck for staybolt. No. 1,375,456; Apr. 19; v. 285; p. 504.
- Hatch, Abram. (See Paulson, S., and Hatch.)
- Hatch, Charlie E., Denver, Colo. Piston for engines. No. 1,388,338; Aug. 23; v. 289; p. 652.



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- Hatch, Charles T., Jr., assignor to The Union Steel Products Company, Ltd., Albion, Mich. Inclosed rack. No. 1,382,907; June 28; v. 287; p. 655.
- Hatch, Orin E., Davenport, Iowa. Stock-lift. No. 1,366,178; Jan. 18; v. 282; p. 496.
- Hatch, Orin E., Davenport, Iowa. Bull-holding instrument. No. 1,396,427; Nov. 8.
- Hatch, Paul F. (See Lunt, F. L., and Hatch.)
- Hatcher, Charles M., Oakland, Calif. Guard for door-locks. No. 1,367,813; Feb. 8; v. 283; p. 241.
- Hatcher, Ernest C., Finchley, and T. Rooke, Hampstead, London, England. Reduction-gear. No. 1,384,662; July 12; v. 28; p. 342.
- Hatfield, Chester P., Lebanon, Ohio. Protective covering for storage-battery cells. No. 1,384,063; July 12; v. 288; p. 216.
- Hatfield, Christian E., Florence, Okla. Wire splice and stretcher. No. 1,386,109; Aug. 2; v. 289; p. 29.
- Hatfield, William H. (See Fairholme, F. C., Hatfield, and Stanfield.)
- Hatfield, W. D. (See Wells, Joseph C. Sr., assignor.)
- Hathaway, Charles H., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile-bumper. No. 1,396,201; Nov. 8.
- Hathaway, Charles H., West Allis, W. A. Starck, and Leo P. McEvoy, assignors to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile bumper. No. 1,386,864; Aug. 9; v. 289; p. 251.
- Hathaway, Chester S., Quincy, assignor to J. A. Locke, Boston, Mass. Paint. No. 1,374,161; Apr. 5; v. 285; p. 151.
- Hathaway, Chester S., Quincy, assignor to J. A. Locke, Boston, Mass. Making fireproofing material and heat and cold retaining coverings and product thereof. No. 1,374,885; Apr. 12; v. 285; p. 332.
- Hathaway, Edgar F., Dorchester, and C. Lea, Boston, Mass., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Wire-coiling mechanism. No. 1,367,814; Feb. 8; v. 283; p. 241.
- Hathaway, Edgar F., et al. (See Field, M. F., Lanning, Hathaway, and Blanchard.)
- Hathaway, Edgar F., Boston, Mass., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Knot-tying implement. No. 1,387,051; Aug. 9; v. 289; p. 288.
- Hathaway, Edgar F., and C. M. Mars, Dorchester, Mass., assignors, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Metallic heddle mechanism for textile-machines. No. 1,379,099; May 24; v. 286; p. 701.
- Hathaway, Edgar F., Dorchester, Mass., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Chenille-strip distribution. No. 1,392,939; Oct. 11.
- Hathaway, Edgar F., Boston, Mass. Harness for looms or the like. No. 1,399,298; Dec. 6.
- Hathaway, Harry D., Buffalo, N. Y. Pedal attachment for automobiles. No. 1,379,561; May 24; v. 286; p. 788.
- Hathaway, Thomas F., assignor to Illinois Watch Case Company, Elgin, Ill. Smoker's stand and the like. No. 1,372,948; Mar. 29; v. 284; p. 820.
- Hathaway, William B., Grand Junction, Colo. Coupling. No. 1,380,799; June 7; v. 287; p. 91.
- Hatlee, David H., Watervliet, N. Y. Speed-reducer. No. 1,365,492; Jan. 11; v. 282; p. 323.
- Hatley, Bird, Everson, Wash. Wood-saw. No. 1,374,736; Apr. 12; v. 285; p. 303.
- Hatmaker, William T., assignor to The Protecto Pump Company, Dayton, Ohio. Measuring-pump. No. 1,378,029; May 17; v. 286; p. 424.
- Hatten, Edgar O., Evanston, Wyo. Vibrator. No. 1,389,586; Sept. 6; v. 290; p. 5.
- Hattersley, John M., Birmingham, England. Memorandum or writing appliance for use in connection with telephones. No. 1,390,705; Sept. 13; v. 290; p. 322.
- Hattersley, John M., Birmingham, England. Folding stereoscope. No. 1,392,327; Oct. 4.
- Hatton, Manson C., Ontario, Calif. Stopper for washbowls and the like. No. 1,401,776; Dec. 27.
- Hatton, Rudolph R. (See Jeffers, S. S., and Hatton.)
- Hatzan, Alexander, Niagara Falls, Ontario, Canada. Rupture appliance. No. 1,389,047; Aug. 30; v. 289; p. 847.
- Haubert, Leo, Muskogee, Okla. Power-delivering attachment for automobile trucks or tractors. No. 1,391,109; Sept. 20; v. 290; p. 466.
- Haubert, Leo, Muskogee, assignor of one-half to J. A. Wolfe, Tulsa, Okla. Power delivering attachment for automobile-tractors. No. 1,399,344; Dec. 6.
- Hauck, Arthur E., deceased, New York, N. Y.; A. H. Stein, executor. Automatic asphalt-smoothing iron. No. 1,378,675; May 17; v. 286; p. 548.
- Hauck, Arthur E., deceased, New York, N. Y.; A. H. Stein, executor. Kerosene-burner. No. 1,381,707; June 14; v. 287; p. 315.
- Hauck, Arthur E., deceased, New York, N. Y.; A. H. Stein, executor. Automatic oil-burner for furnaces. No. 1,381,708; June 14; v. 287; p. 315.
- Hauck, Arthur E., deceased, New York, N. Y.; A. H. Stein, executor. Low-pressure oil-burner with an attached combustion-box. No. 1,383,720; July 5; v. 288; p. 96.
- Hauck, Arthur E., deceased, New York, N. Y. Adolph H. Stein, executor. Suction-torch. No. 1,398,553; Nov. 29.
- Hauer, Elmer E., Springfield, Ohio. Piston. No. 1,377,346; May 10; v. 286; p. 242.
- Hauff, Fritz. (See Lowenstein, K. P., and Hauff.)
- Hauffe, Chester N., Columbus, Ohio. Tire-rim. No. 1,394,009; Oct. 18.
- Haugh, James G., Bascom, Ohio. Clothesprop. No. 1,365,589; Jan. 11; v. 282; p. 342.
- Haugh, James G., Bascom, Ohio. Seesaw and the like. No. 1,401,906; Dec. 27.
- Haugh, Raymond R., Chicago, Ill. Terminal block. No. 1,387,980; Aug. 16; v. 289; p. 524.
- Haughton Elevator & Machine Co., The. (See Thurston, Ernest B., assignor.)
- Haughwout, Lefford M., A. Ponce, Porto Rico. Sliding name-register. No. 1,368,144; Feb. 8; v. 283; p. 304.
- Haughwout, William A., Fortyfort, Pa. Chain-connecting link. No. 1,380,903; June 7; v. 287; p. 111.
- Haun, J. C., Tonopah, Nev., and A. Silver, San Francisco, Calif. Cyaniding precious-metal-bearing materials. No. 1,399,458; Dec. 6.
- Hauz, Charles, Lancaster, N. Y., assignor to Gould Storage Battery Company. Starting means. No. 1,385,210; July 19; v. 288; p. 535.
- Haupt, Mary A. M., Chicago, Ill. Educational apparatus. No. 1,394,620; Oct. 25.
- Haupt, Wenzel, New York, N. Y. Flying-machine. No. 1,388,642; Aug. 23; v. 289; p. 711.
- Haus, John G., Weirton, W. Va. Water-heater. No. 1,394,897; Oct. 25.
- Hausam, Adam, Richmond Heights, Mo. Attachment for electric irons. No. 1,382,781; June 28; v. 287; p. 632.
- Hauser, André, La Chaux-de-Fonds, Switzerland. Machine for pulping plants containing textile fibers. No. 1,381,830; June 14; v. 287; p. 338.
- Hauser, Benedikt, Romanshorn, Switzerland. Embroidering. No. 1,382,976; June 28; v. 287; p. 669.
- Hauser, Henry J., Rochester, N. Y. Folding doll-cradle. No. 1,368,145; Feb. 8; v. 283; p. 304.
- Hauser, Henry J. (See Leonard, C. D., and Hauser.)
- Hauser, Martin. (See Bledsoe, John H., and Hauser.)
- Hauser-Stander Tank Company, The. (See Bauerle, John, assignor.)
- Hauserman, E. F. Company, The. (See Hauserman, E. F., Mowery, Smith, and Osterman, assignors.)
- Hauserman, Earl F., Cleveland Heights, L. D. Mowery, Cleveland; E. R. Smith, Lakewood, and R. Osterman, assignors to The E. F. Hauserman Company, Cleveland, Ohio. Locker. No. 1,371,482; Mar. 15; v. 284; p. 439.
- Hausfeld, Joseph E., Cincinnati, Ohio. Burner for furnaces. No. 1,378,951; May 24; v. 286; p. 673.
- Hausler, John, Donora, Pa. Crane-hook. No. 1,367,044; Feb. 1; v. 283; p. 32.
- Hausman, Walter J., St. Louis, Mo., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,390,955; Sept. 13; v. 290; p. 373.
- Hausmann A.-G. Schweiz, Medizinal- und Sanitätsgesellschaft St. Gallen. (See Lang, Arnold, assignor.)
- Hüssler, Paul R., Plauen, Germany. Shuttle for embroidering-machines. No. 1,399,056; Dec. 6.
- Hautier, Camille J., Boulogne, France. Gyroscopic apparatus for transmission of power. No. 1,388,464; Aug. 23; v. 289; p. 678.
- Havemeyer, John F., Ardsley-on-Hudson, N. Y. Bar-spacer. No. 1,372,226; Mar. 22; v. 284; p. 638.
- Havener, Arthur R., Wyndham, Mass., assignor to American Lacing Hook Co. Lacing-stud-setting machine with automatic stop. No. 1,379,303; May 24; v. 286; p. 740.
- Haver, William H., San Jose, Calif. Liquid-measuring device. No. 1,366,656; Jan. 25; v. 282; p. 635.
- Haverly, Jerome, Berkeley, Calif. Mercury-separator. No. 1,372,137; Mar. 22; v. 284; p. 620.
- Havid, R. M., Company. (See Blakeley, Edward B., assignor.)
- Haviland, Frank W., New York, N. Y. Head-frame for supporting eyeglasses. No. 1,380,957; June 7; v. 287; p. 121.
- Havran, John, Portland, Ore. Curtain-shade circuit-closer. No. 1,392,641; Oct. 4.
- Havrilla, Andrew J., New London, Conn. Direction-indicator. No. 1,366,261; Jan. 18; v. 282; p. 512.
- Hawaiian Pineapple Company, Limited. (See Fisher, George E., assignor.)
- Hawaiian Pineapple Company. (See Voss, Otto, assignor.)
- Hawk, Ivan O., East Cleveland, assignor of one-half to T. B. Soden, Cleveland, Ohio. Wind musical instrument. No. 1,395,107; Oct. 25.
- Hawken, Charles E. H. (See Westgate, J., and Hawken.)
- Hawes, John L. (See Potts, Walter F., assignor.)
- Hawker, William, Edmonton, Alberta, Canada. Smoke-stack. No. 1,382,508; June 21; v. 287; p. 526.
- Hawkes, Clifford E., Brooklyn, N. Y. Layout device. No. 1,370,645; Mar. 8; v. 284; p. 215.
- Hawkes, Lewis A., Merchantville, assignor to C. Howard Hunt Pen Company, Camden, N. J. Making pens. No. 1,365,318; Jan. 11; v. 282; p. 289.
- Hawkes, Robert L., St. Catharines, Ontario, Canada. Die-making machine. No. 1,391,055; Sept. 20; v. 290; p. 455.



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- Hawkes, William H., South Nyack, N. Y. Flatiron-handle cooler. No. 1,372,429; Mar. 22; v. 284; p. 677.
- Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,370,440; Mar. 1; v. 284; p. 130.
- Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,380,554; June 7; v. 287; p. 44.
- Hawkins, Alda F., assignor to Standard Battery Manufacturing Company, Fort Worth, Tex. Battery terminal. No. 1,400,059; Dec. 13.
- Hawkins, Arthur W., assignor to Chicago Railway Equipment Company, Chicago, Ill. Floating reversible strut. No. 1,387,981; Aug. 16; v. 289; p. 524.
- Hawkins, Arthur W., assignor to Chicago Railway Equipment Company, Chicago, Ill. Third-point support for brake-beams. No. 1,397,580; Nov. 22.
- Hawkins, Arthur W., assignor to Chicago Railway Equipment Company, Chicago, Ill. Safety-guard, release, and support for brake-beams. No. 1,397,581; Nov. 22.
- Hawkins, Charles R. (See Smith, Frank L., and Hawkins.)
- Hawkins, J. C., assignor to Clipless Paper Fastener Company Inc., Newton, Mass. Stamp-vending machine. No. 1,391,775; Sept. 27; v. 290; p. 673.
- Hawkins, Jackson D. (See Schramm, H. A., and Hawkins.)
- Hawkins, Julius, *et al.* (See Minnick, William H., as signor.)
- Hawkins, Kenneth, assignor to G. B. Lewis Company, Watertown, Wis. Beehive-frame-wiring device. No. 1,373,131; Mar. 29; v. 284; p. 856.
- Hawkins, Lula B., Council Bluffs, Iowa. Bread-raiser. No. 1,389,352; Aug. 30; v. 289; p. 908.
- Hawkins, Morris V., Elkhart, Ind. Means for adjusting horn-actions. No. 1,367,386; Feb. 1; v. 283; p. 100.
- Hawkins, Raymond L., assignor to Long Manufacturing Company, Detroit, Mich. Radiator. No. 1,379,015; May 24; v. 286; p. 686.
- Hawkins, Sam, Centralia, Ill. Roofing-scaffold. No. 1,392,153; Sept. 27; v. 290; p. 751.
- Hawkins, Thomas J., *et al.* (See Carson, Robert H., assignor.)
- Hawkins, Thomas, assignor of one-half to C. R. H. Rex, Slatington, Pa. Manufacture of explosives. No. 1,398,098; Nov. 22.
- Hawkins, Thomas, Derry, assignor to W. B. Severance, Manchester, N. H. Sorting-rack. No. 1,398,778; Nov. 29.
- Hawkins, Wilford J. (See Steele, Archie W., assignor.)
- Hawkins, William E., Amityville, N. Y. Socket-shell for incandescent electric lamps. No. 1,383,626; July 5; v. 288; p. 76.
- Hawkinson, Adolph H., assignor to Greenlee Bros. & Co., Rockford, Ill. Mortising-tool. No. 1,401,469; Dec. 27.
- Hawkinson, Paul E., Minneapolis, Minn. Process and apparatus for vulcanizing tires. No. 1,397,209; Nov. 15.
- Hawksley, Coleman O., & W. J. Baumann, Philadelphia, Pa. Saw-tooth gage. No. 1,378,409; May 17; v. 286; p. 497.
- Hawsworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-Roof. No. 1,385,616; July 26; v. 288; p. 694.
- Hawsworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,385,617; July 26; v. 288; p. 694.
- Hawsworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Running-board saddle. No. 1,385,618; July 26; v. 288; p. 694.
- Hawsworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Roofing-sheet. No. 1,374,290; Apr. 12; v. 285; p. 219.
- Hawsworth, Frank G., Westmont, N. J., and J. H. Eklof, Lansdowne, Pa., assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Technical anatomical dental model. No. 1,387,540; Aug. 16; v. 289; p. 437.
- Hawley, Alfred E., Hinckley, P. F. Crosland, Halifax, and F. G. Dixon, Cheadle Hulme, England. Machine for mercerizing hose and other knitted fabrics. No. 1,400,159; Dec. 13.
- Hawley, Amos H., Norwood, Ohio, assignor to International Money Machine Company, Terre Haute, Ind. Accounting-machine with auxiliary printing appliance. No. 1,396,932; Nov. 15.
- Hawley, Bertha M., Hudson Falls, N. Y. Tag. No. 1,368,628; Feb. 15; v. 283; p. 446.
- Hawley, Charles G., assignor to Baker Wheel & Rim Company, Chicago, Ill. Wheel for automobiles. No. 1,399,719; Dec. 6.
- Hawley, Edwin E. (See Jossenberger, Vic E., assignor.)
- Hawley, Eugene W., Philadelphia, Pa. Latching device for trunk-drawers. No. 1,366,451; Jan. 25; v. 282; p. 594.
- Hawley, James L., Savannah, Ga., assignor of one-half to J. M. Hawley, Blythewood, S. C. Railway-journal-box jack. No. 1,391,382; Sept. 20; v. 290; p. 521.
- Hawley, John M. (See Hawley, James L., assignor.)
- Hawley, Lee F., Madison, Wis., assignor to The United States of America. Producing dense charcoal. No. 1,369,428; Feb. 22; v. 283; p. 641.
- Hawley, Lee F., Madison, Wis., assignor to United States of America. Producing dense absorbent charcoal. No. 1,385,826; July 26; v. 288; p. 736.
- Hawley Pulp and Paper Company. (See Swick, Clyde E., assignor.)
- Hawley, Raymond, Cambridge, and S. Shelnwald, Allston, assignors to S. W. Prussian, Brookline, Mass. Auxiliary spark device for ignition systems. No. 1,369,025; Feb. 22; v. 283; p. 563.
- Hawley, William G., assignor to American La France Fire Engine Company, Inc., Elmira, N. Y. Friction-clutch. No. 1,398,554; Nov. 29.
- Haworth, Jehu F., Edgeworth, Pa. Wire or cable end connector. No. 1,380,800; June 7; v. 287; p. 91.
- Haworth, John P. (See Hans, John, assignor.)
- Haworth, Thomas, Fall River, Mass. Bobbin-smash preventer for wet-replenishing looms. No. 1,381,636; June 14; v. 287; p. 300.
- Haworth, Walter N., and J. C. Irvine, St. Andrews, Scotland. Preparation of dimethyl sulfate. No. 1,401,693; Dec. 27.
- Hawresch, Sidor, M. Rock, and B. Dworski, Montreal, Quebec, Canada. Combination furniture. No. 1,380,904; June 7; v. 287; p. 111.
- Hawthorn, R. & W. Leslie & Company, *et al.* (See Armstrong, Robert B., assignor.)
- Hawthorne Company, The. (See Nikonow, John P., assignor.)
- Hawthorne Company, The. (See Nikonow, John P., assignor.) (Reissue.)
- Hawthorne, Ellsworth A. (See George, J. H., and Hawthorne.)
- Hawthorne, Ellsworth A. (See George, John H., assignor.)
- Hawthorne, Ellsworth A., Bridgeport, Conn. Illuminating apparatus. No. 1,367,964; Feb. 8; v. 283; p. 269.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Lighting apparatus. No. 1,368,722; Feb. 15; v. 283; p. 465.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Lighting apparatus. No. 1,369,892; Mar. 1; v. 284; p. 26.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Lamp-supporting bracket. No. 1,370,585; Mar. 8; v. 284; p. 202.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Electrical connection. No. 1,378,952; May 24; v. 286; p. 674.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Lamp-bracket. No. 1,379,761; May 31; v. 286; p. 900.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Lamp. No. 1,380,100; May 31; v. 286; p. 964.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Illuminating apparatus. No. 1,381,637; June 14; v. 287; p. 301.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Lamp. No. 1,383,204; June 28; v. 287; p. 712.
- Hawthorne, Ellsworth A., Bridgeport, Conn. Bracket. No. 1,401,402; Dec. 27.
- Hawthorne, Primm R., Milwaukee, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Tractor. No. 1,396,956; Nov. 15.
- Hay, Edwin C., Montgomery, Ala. Engine. No. 1,389,505; Aug. 30; v. 289; p. 937.
- Hay, James J., assignor to Vermont Farm Machine Corporation, Bellows Falls, Vt. Driving-mount for the bowls of centrifugal machines. No. 1,383,339; Aug. 23; v. 289; p. 652.
- Hay, John H., Calgary, Alberta, Canada. Valve, tap, and the like. No. 1,379,030; May 17; v. 286; p. 425.
- Hay, William G., Manchester, England. Rotary fluid compressor, exhauster, mover, or engine. No. 1,367,256; Feb. 1; v. 283; p. 74.
- Hayda, Oscar, Boston, assignor of one-third to E. Bergésoler, Newton Highlands, and one-third to A. J. Potch, Dorchester, Mass. Preparation of fruits for foods and beverages. No. 1,377,681; May 10; v. 286; p. 305.
- Hayden, Amos S., Holbrook, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fluid-applying machine. No. 1,376,538; May 3; v. 286; p. 30.
- Hayden, Donald C., Bridgeport, Conn. Dental-chair jack. No. 1,387,541; Aug. 16; v. 289; p. 437.
- Hayden, Lothrop A., West Wareham, assignor of 51 per cent. to New England Cranberry Sales Company, Middleboro, Mass. Cranberry-harvesting machine. No. 1,371,306; Mar. 15; v. 284; p. 403.
- Hayden, Louis S., Essex, assignor to The Connecticut Valley Manufacturing Company, Centerbrook, Conn. Tool for boring and counterboring wood. No. 1,398,779; Nov. 29.
- Hayden, Louis S., Essex, assignor to The Connecticut Valley Manufacturing Company, Centerbrook, Conn. Extension boring-bit. No. 1,398,780; Nov. 29.
- Hayden, Zerah G., Eldora, Iowa. Combination rules and adjustable compass. No. 1,366,800; Jan. 25; v. 282; p. 663.
- Haydock, Thomas P., New Bedford, Mass. Picker-stick-cushioning means. No. 1,392,154; Sept. 27; v. 290; p. 751.
- Hayes, Albert, New York, N. Y., assignor, by mesne assignments, to U. S. Industrial Alcohol Co. Making motor-fuel. No. 1,378,858; May 24; v. 286; p. 656.
- Hayes, Albert, New York, N. Y., assignor to Carnot Development Corporation. Rotary pump. No. 1,395,916; Nov. 1.
- Hayes, Albert, New York, N. Y., assignor to Carnot Development Corporation. Rotary pump. No. 1,395,917; Nov. 1.
- Hayes, Daniel I. (See Anshelm, Edward H., assignor.)



- Hayes, Edgar P., Dillon, S. C. Cotton-picking machine. No. 1,401,076; Dec. 20.
- Hayes, Frank A., Flint Mich. Coaster. No. 1,367,965; Feb. 8; v. 283; p. 270.
- Hayes, George A., Fort Lee, N. J. Paint-pot hanger. No. 1,394,301; Oct. 18.
- Hayes, George B. and W. A., Denver, Colo. Beet-topping device. No. 1,390,289; Sept. 13; v. 290; p. 239.
- Hayes, George H., Hazelton, Kans. Shock-absorber. No. 1,386,782; Aug. 9; v. 289; p. 234.
- Hayes, John, Waupun, Wis. Swing. No. 1,368,146; Feb. 8; v. 283; p. 304.
- Hayes, John, Jr., Philadelphia, Pa. Concentrator. No. 1,364,991; Jan. 11; v. 282; p. 226.
- Hayes, Paul C. (See Lindquist, Carl J., assignor.)
- Hayes Pump and Planter Company. (See Hayes, Ralph W. E., assignor.)
- Hayes, Ralph W. E., assignor of one-half to Hayes Pump and Planter Company, Galva, Ill. Pump-jack. No. 1,379,917; May 31; v. 286; p. 929.
- Hayes, Robert M. (See Reeves, Joseph T., assignor.)
- Hayes-Ruppel Manufacturing Company. (See Ruppel, Frederick C., assignor.)
- Hayes, Sarah E., guardian. (See Mirmillo, Charles.)
- Hayes, Thomas J., Roslindale, assignor to Arbetter Felling Machine Company, Boston, Mass. Thread-delivering mechanism. No. 1,367,387; Feb. 1; v. 283; p. 101.
- Hayes, Thomas J., Roslindale, assignor to Arbetter Felling Machine Company, Boston, Mass. Blindstitch sewing-machine. No. 1,367,388; Feb. 1; v. 283; p. 101.
- Hayes, Thomas J., Roslindale, assignor to Arbetter Felling Machine Company, Boston, Mass. Feeding mechanism for sewing-machines. No. 1,388,183; Aug. 23; v. 289; p. 620.
- Hayes, Thomas J., Roslindale, assignor to Arbetter Felling Machine Company, Boston, Mass. Presser-foot for blindstitch sewing-machines. No. 1,397,516; Nov. 22.
- Hayes, Walter A. (See Hayes, George B. and W. A.)
- Hayes Wheel Company. (See Burns, T. C., and Huffman, assignors.)
- Haylor, William, Heppner, Oreg. Front-wheel steering mechanism for motor-vehicles. No. 1,390,903; Sept. 13; v. 290; p. 362.
- Hayman, Frederick J., Brooklyn, N. Y. Renovating and ironing frame for necktie. No. 1,380,101; May 31; v. 286; p. 965.
- Hayman, Harry, Detroit, Mich. Spring-wheel. No. 1,386,927; Aug. 9; v. 289; p. 264.
- Hayman, Luffy T. (See Albany, R. C., and Hayman.)
- Hayne, John T., Detroit, Mich. Running-board for automobiles. No. 1,382,506; June 21; v. 287; p. 525.
- Hayne, John T., Detroit, Mich. Running-board for automobiles. No. 1,382,507; June 21; v. 287; p. 526.
- Haynes, Caleb V., Indianapolis, Ind. Airplane-brake. No. 1,389,757; Sept. 6; v. 290; p. 39.
- Haynes, Charles M., Chillicothe, Ohio. Clamp for adjusting spectacle-frames. No. 1,394,828; Oct. 25.
- Haynes, Edward A., Port Huron, Mich. Box. No. 1,379,100; May 24; v. 286; p. 701.
- Haynes, John I., St. Louis, Mo. Humidifier. No. 1,367,701; Feb. 8; v. 283; p. 220.
- Haynes, Roy W., assignor to Penn Rivet Corporation, Philadelphia, Pa. Sheet-metal rivet. No. 1,383,806; July 5; v. 288; p. 114.
- Haynes, William G., assignor of one-half to F. E. Remington, Coffeyville, Kans. Expandible plug for wells. No. 1,388,564; Aug. 23; v. 289; p. 696.
- Haynie, John W., St. Louis, Mo. Diving-tube. No. 1,385,682; July 26; v. 288; p. 707.
- Hays, Clarence J. (See Curtis, Arthur R., assignor.)
- Hays, E. R., et al. (See Lockhart, Howard, assignor.)
- Hays, Elijah F. and C. E. Garrison, Mount Vernon, Ill. Crank-shaft grinder. No. 1,376,274; Apr. 26; v. 285; p. 693.
- Hayt, William A. (See Key, James F., assignor.)
- Hayter, Wilbur O., Klamath Falls, Oreg., and G. A. Frisk, Gridley, Calif. Jam-nut. No. 1,394,730; Oct. 25.
- Hayward, Albert C., Ashford, England. Clutch or free-wheel mechanism. No. 1,381,876; June 14; v. 287; p. 347.
- Hayward, Carle R., Quincy; H. M. Schleicher, Boston, and F. O. Stillman, Melrose, Mass., assignors, by mesne assignments, to Moa Iron & Development Corporation, Dover, Del. Treatment of leach liquor. No. 1,370,646; Mar. 8; v. 284; p. 215.
- Hayward, N. V. (See Doyle, Francis J., assignor.)
- Haywood Company, The. (See Atkinson, Herbert S., assignor.)
- Haywood, Harry H., New Britain, assignor to The American Paper Goods Company, Kensington, Conn. Dispensing appliance. No. 1,365,689; Jan. 18; v. 282; p. 400.
- Haywood, John W., New York, assignor to Horne Manufacturing Company, Brooklyn, N. Y. Multiple connector. No. 1,395,108; Oct. 25.
- Hayworth, William A., Universal, Ind. Car-coupling. No. 1,393,364; Oct. 11.
- Hazard & Miller. (See Dornan, William, assignor.)
- Hazard, George D., San Francisco, Calif. Light reflector and diffuser. No. 1,365,319; Jan. 11; v. 282; p. 289.
- Hazazer, Edgar W., New York, N. Y. Electric signal. No. 1,397,582; Nov. 22.
- Hazelett, Clarence W., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Storage-battery terminal. No. 1,376,143; Apr. 26; v. 285; p. 668.
- Hazelett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Storage-battery terminal post. No. 1,376,144; Apr. 26; v. 285; p. 668.
- Hazelett, Clarence W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Seal for storage-battery terminals. No. 1,380,061; May 31; v. 286; p. 957.
- Hazelett, Clarence W., Lakewood, and F. A. Holt, Cleveland, Ohio, assignors to National Carbon Company, Inc. Apparatus for fitting inserts in separators. No. 1,392,155; Sept. 27; v. 290; p. 751.
- Hazelton, Benjamin P., Wheeling, W. Va. Soaking-pit. No. 1,380,713; June 7; v. 287; p. 74.
- Hazelton, Louis A., Hoboken, N. J., assignor, by mesne assignments, to Ware Radio, Inc. Shielding radio apparatus. No. 1,379,184; May 24; v. 286; p. 717.
- Hazelton, George, Portadown, Ireland. Sliding mechanism. No. 1,390,904; Sept. 13; v. 290; p. 362.
- Hazelton, George, Portadown, Ireland. Screwed mechanism. No. 1,391,633; Sept. 20; v. 290; p. 572.
- Hazelton, George, Portadown, Ireland, assignor to The British Metal and Toy Manufacturers Limited, London, England. Mechanical toy. No. 1,376,766; May 3; v. 286; p. 72.
- Hazelton, Robert T., Cincinnati, assignor to The Cincinnati Milling Machine Company, Oakley, Cincinnati, Ohio. Machine-tool trip. No. 1,390,706; Sept. 13; v. 290; p. 322.
- Hazelton, Robert T., Cincinnati, assignor to The Cincinnati Milling Machine Company, Oakley, Cincinnati, Ohio. Automatic table-lowering attachment. No. 1,397,210; Nov. 15.
- Hazen, Harry B., and G. Henderson, Sharon, Pa. Spare-tire carrier. No. 1,371,088; Mar. 8; v. 284; p. 299.
- Hazen, Sylvester P. (See Tiller, D. M., Hall, Talbot, and Hazen.)
- Hazlett, Homer A., St. Paul, Minn. Clothesline-fixtute. No. 1,380,378; June 7; v. 287; p. 10.
- Hazlewood, John J., Pittsburgh, Pa. Transfer means. No. 1,398,188; Nov. 22.
- Hazner, Frank, and L. Gasiorok, Newark, N. J. Rail-fastener. No. 1,387,052; Aug. 9; v. 289; p. 289.
- H'Doubler, Charles W., Racine, Wis. Sewing-machine pulley. No. 1,380,715; June 7; v. 287; p. 75.
- Heacock, Charlis L., Gretna, Nebr. Carbureter-controller. No. 1,365,242; Jan. 11; v. 289; p. 274.
- Heacock, R. A., et al. (See Lockhart, Howard, assignor.)
- Heacox, Ross D., Washington, D. C. Repairing scored cylinders. No. 1,385,334; July 19; v. 288; p. 559.
- Heacox, Ross D., Washington, D. C. Tool for scraping cylindrical surfaces. No. 1,395,823; Nov. 1.
- Head, Robert, New York, N. Y., assignor to The Aeolian Company. Automatic stop mechanism. No. 1,386,057; Aug. 2; v. 289; p. 19.
- Head, Ernest C. (See Stewart, A. L., and Head.)
- Head, Ernest C., Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa. Multiplying-gearing. No. 1,390,905; Sept. 13; v. 290; p. 362.
- Headley, Clarence H., Sherburn, Minn. Attachment for autos. No. 1,387,775; Aug. 16; v. 289; p. 435.
- Headley, Frederick H., Birmingham, England. Vehicle-lamp. No. 1,388,340; Aug. 23; v. 289; p. 653.
- Headrick, Harry J., and S. A. Palmer, Miller, S. D. Machine for preparing seed-corn for drying. No. 1,389,506; Aug. 30; v. 289; p. 938.
- Heafner, Everett E., Lincoln, N. C. Stop-motion for twister-frames. No. 1,375,290; Apr. 19; v. 285; p. 473.
- Heales, William H., Coventry, assignor to The Dunlop Rubber Company, Limited, London, England. Detachable wire-spoked wheel. No. 1,393,441; Oct. 11.
- Healey, George R., Los Angeles, Calif. Asbestos table-mat. No. 1,401,333; Dec. 27.
- Healey, Patrick J., Jersey City, N. J. Metal sash. No. 1,387,542; Aug. 16; v. 289; p. 437.
- Healy, Frank C., South Boston, Mass. Jack. No. 1,398,132; Nov. 22.
- Healy, James A., Brooklyn, N. Y. Amusement apparatus. No. 1,379,185; May 24; v. 286; p. 717.
- Healy, James A., Brooklyn, N. Y. Pneumatic-tire tread. No. 1,398,513; Nov. 29.
- Healy, James A., Brooklyn, N. Y. Amusement apparatus. No. 1,398,514; Nov. 29.
- Healy, John S., Brooklyn, N. Y. Gas-burning appliance. No. 1,385,545; July 26; v. 288; p. 679.
- Heany, John A., New York, N. Y., assignor, by mesne assignments, to Rockbestos Products Corporation. Wire-covering machine. No. 1,375,655; Apr. 19; v. 285; p. 542.
- Heany, John A., New York, N. Y. Incandescent electric lamp. No. 1,399,722; Dec. 6.
- Heaney, Aaron R., Stillwater, Okla. Wrench. No. 1,391,110; Sept. 20; v. 290; p. 466.
- Heanue, Martin A., et al. (See Wrozina, Ignatius, assignor.)
- Heap, William A., assignor to C. M. Crews, Topeka, Kans. Change-receptacle. No. 1,378,173; May 17; v. 286; p. 452.



*Alphabetical list of patentees—Continued.*

- Heap, William L., assignor to Wm. Heap & Sons, Grand Haven, Mich. Hinge construction. No. 1,365,690; Jan. 18; v. 282; p. 400.
- Heap, Wm., & Sons. (See Heap, William L., assignor.)
- Heape, Walter. (See Grylls, Horace B., and Heape.)
- Heaphy, Archibald C., New York, N. Y. Wardrobe attachment for chairs. No. 1,375,047; Apr. 19; v. 285; p. 426.
- Hearn, Robert H., Dyer, Tenn. Gate. No. 1,370,689; Mar. 8; v. 284; p. 223.
- Hearn, Hiram S., and A. E. Perreten, Denver, Colo. Toothpick-dispenser. No. 1,390,553; Sept. 13; v. 290; p. 291.
- Heath, Andrew E., Footscray, Melbourne, Victoria, Australia. Apparatus for handling of grain in bulk. No. 1,390,032; Sept. 6; v. 290; p. 96.
- Heath, Charles W., Cincinnati, Ohio. Means for temperature equalization in gas-analyzers. No. 1,366,382; Jan. 25; v. 282; p. 579.
- Heath, Clarence F., Washington, D. C. Letter carrier's desk. No. 1,376,333; Apr. 26; v. 285; p. 704.
- Heath, Delos P., Detroit, Mich. Combined refrigerator and ice-cream freezer. No. 1,396,574; Nov. 8.
- Heath, Frank, National City, Calif. Sardine-turning apparatus. No. 1,373,812; Apr. 5; v. 285; p. 84.
- Heath, Frederick, assignor to Heath Unit Tile Company, Tacoma, Wash. Hollow-wall construction. No. 1,391,318; Sept. 20; v. 290; p. 509.
- Heath, Lewis W., and H. D. Cook, assignors to Consolidated Press Company, Hastings, Mich. Swaging and forging press. No. 1,392,328; Oct. 4.
- Heath, Samuel, Philadelphia, Pa. Combination heating and cooking stove. No. 1,378,859; May 24; v. 286; p. 656.
- Heath, Samuel, Philadelphia, Pa. Bread-toaster. No. 1,397,959; Nov. 22.
- Heath, Spencer, Baltimore, Md. Apparatus for making propellers. No. 1,363,196; Jan. 4; v. 282; p. 29.
- Heath, Spencer, Baltimore, Md. High-speed propeller. No. 1,364,197; Jan. 4; v. 282; p. 29.
- Heath, Spencer, Baltimore, Md. Apparatus for machining propeller-blades. No. 1,373,813; Apr. 5; v. 285; p. 84.
- Heath Unit Tile Company. (See Heath, Frederick, assignor.)
- Heath, William C., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Engine-mechanism assembly. No. 1,393,778; Oct. 18.
- Heath, William O., Stafford, Kans. Draft-equalizer. No. 1,396,202; Nov. 8.
- Heath, Wilfrid P., Chicago, Ill. Making butter. No. 1,384,318; July 12; v. 288; p. 269.
- Heath, Wilfrid P., Chicago, Ill. Manufacturing candy. No. 1,384,319; July 12; v. 288; p. 269.
- Heathcote, William L., Kansas City, Mo. Hot-cake machine. No. 1,378,377; May 17; v. 286; p. 490.
- Heathle, William C., Beverly, Mass. Envelop-grip and pen or pencil rack. No. 1,375,509; Apr. 19; v. 285; p. 514.
- Heaton, Herman C., Berwyn, Ill., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler furnace and operating the same. No. 1,401,253; Dec. 27.
- Heaton, John T., assignor of one-half to T. J. Fullen, Jr., and one-half to P. P. Quinlan, Chicago, Ill. Mop. No. 1,397,284; Nov. 15.
- Hebbard, James, Broken Hill, New South Wales, Australia, assignor to Minerals Separation North American Corporation, New York, N. Y. Apparatus for the concentration of ores. No. 1,380,650; June 7; v. 287; p. 61.
- Hebbeln, Emma, Los Angeles, Calif. Automobile-signal. No. 1,367,184; Feb. 1; v. 283; p. 60.
- Heberlein, Christian, London, England. Electrolyzing a solution of nickel salt. No. 1,389,829; Sept. 6; v. 290; p. 54.
- Heberlein, Georges, Wattwil, Switzerland. Cotton fabric. No. 1,392,264; Sept. 27; v. 290; p. 774.
- Heberlein, Georges, Wattwil, Switzerland. Cotton fabric. No. 1,392,265; Sept. 27; v. 290; p. 774.
- Heberling, John, Rochester, N. Y. Belt-buckle. No. 1,385,945; July 26; v. 288; p. 759.
- Heberlins, Russell L., and W. E. Holland, assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Storage battery. No. 1,373,241; Mar. 29; v. 284; p. 878.
- Hebern, Edward H., Oakland, Calif. Direction-signaling device. No. 1,374,450; Apr. 12; v. 285; p. 249.
- Hebern, Edward H., assignor to H. & H. Patent Developing Company, Oakland, Calif. Turning-signal for automobiles. No. 1,397,211; Nov. 15.
- Hebern, William. (See Gray, A. J., and Hebern.)
- Hebern, William, and A. J. Gray, Oakland, Calif., assignors to Security Auto Lock Co. Transmission-lock. No. 1,397,420; Nov. 15.
- Hebert, Hector, San Francisco, Calif. Laying-hen marker. No. 1,368,500; Feb. 15; v. 283; p. 422.
- Hebner, George J., Rochester, N. Y. Adjustable ladder. No. 1,392,642; Oct. 4.
- Hechler, Valentine, assignor to Wilson & Co., Inc., Chicago, Ill. Compounding fats and oils. No. 1,389,947; Sept. 6; v. 290; p. 79.
- Hechler, Valentine, assignor to Wilson & Co. Inc., Chicago, Ill. Apparatus for manufacturing shortening material. No. 1,400,216; Dec. 13.
- Hecht, Charles E., Irvington, N. J. Brush-hanger. No. 1,397,807; Nov. 22.
- Hecht, Heinrich. (See Hahemann, W., and Hecht.)
- Hecht, Henry, New York, and D. G. Black, Brooklyn, assignors to Alloys & Products, Inc., New York, N. Y. Alloy. No. 1,389,446; Aug. 30; v. 289; p. 926.
- Hecht, John S., and A. T. Dowell, St. Albans, England. Obturator-ring. No. 1,378,109; May 17; v. 286; p. 440.
- Heck, Ferdinand, Dusseldorf-Rath, Germany. Apparatus for making multiple beadings on pipes. No. 1,399,383; Dec. 6.
- Heck, George D., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental-Equipment stand. No. 1,387,053; Aug. 9; v. 289; p. 289.
- Heck, George D., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental engine. No. 1,393,120; Oct. 11.
- Heck, Paul E., Philadelphia, Pa. Jeweler's forming and clamping device for finger-rings. No. 1,368,797; Feb. 15; v. 283; p. 479.
- Heckenbach, Joseph, assignor to Quality Hardware & Machine Company, Chicago, Ill. Grease-cup. No. 1,385,373; July 26; v. 288; p. 643.
- Hecker, George, Borosolvaly, Calif., assignor to Pacific Coast Borax Company, New York, N. Y. Recovery of potash from potash-bearing brines. No. 1,378,410; May 17; v. 286; p. 497.
- Hecker, John H., Covington, Ohio. Dispensing apparatus for automobile service. No. 1,379,562; May 24; v. 286; p. 789.
- Heckle, George R., Montreal, Quebec, Canada. Pile shell or case. No. 1,366,179; Jan. 18; v. 282; p. 496.
- Heckler, Frederick W., Darby, Pa. Holder for valves while being ground. No. 1,391,733; Sept. 27; v. 290; p. 666.
- Heckman, August. (See Bores, A. E., and Heckman.)
- Heckman, Joseph C., Avalon, Pa. Fertilizer. No. 1,386,331; Aug. 2; v. 289; p. 74.
- Heckmann, William, Irvington, N. J. Sealing-cap-attaching apparatus. No. 1,394,086; Oct. 18.
- Hector, Alexander B., Greenwich, near Sydney, New South Wales, Australia. Apparatus for producing color-music. No. 1,388,706; Aug. 23; v. 289; p. 723.
- Hector, Olinthus H., Uvalde, Tex. Spike-extractor. No. 1,370,813; Mar. 8; v. 284; p. 247.
- Hedberg, Peter L., Chicago, Ill. Extensible automobile box or body. No. 1,392,011; Sept. 27; v. 290; p. 723.
- Hedden, Fred F., Los Angeles, Calif. Stepladder. No. 1,377,579; May 10; v. 286; p. 285.
- Heddon's, James, Sons. (See Stolley, William A., assignor.)
- Heddon's, James, Sons, Incorporated. (See Dills, Henry S., assignor.)
- Hedge, Sam, assignor to Hedge's Orange Ale Company, Detroit, Mich. Liquid-dispensing apparatus. No. 1,377,347; May 10; v. 286; p. 242.
- Hedger, Ward E., Waupun, Wis. Suspenders. No. 1,365,493; Jan. 11; v. 282; p. 323.
- Hedges, Abraham D., Long Beach, Calif. Folding automobile-top. No. 1,390,554; Sept. 13; v. 290; p. 291.
- Hedges, Abraham D., Long Beach, Calif. Automobile-top. No. 1,390,555; Sept. 13; v. 290; p. 292.
- Hedges, Abraham D., Long Beach, Calif. Automobile-top. No. 1,390,556; Sept. 13; v. 290; p. 292.
- Hedges, Abraham D., Long Beach, Calif. Automobile-top. No. 1,390,557; Sept. 13; v. 290; p. 292.
- Hedges, Edward E., New York, N. Y. Apparatus for distilling kerosene shale. No. 1,383,205; June 28; v. 287; p. 712.
- Hedges, Edward G., Newark, N. J. Antifouling muffler for flush-pipes. No. 1,387,003; Aug. 9; v. 289; p. 279.
- Hedges, Frank. (See Diefenbargh, William, assignor.)
- Hedge's Orange Ale Company. (See Hedge, Sam, assignor.)
- Hedges, Samuel, Los Angeles, Calif. Flooring. No. 1,374,082; Apr. 5; v. 285; p. 136.
- Hedin, Peter, Duluth, Minn. Repairing device. No. 1,388,815; Aug. 23; v. 289; p. 746.
- Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Indicator. No. 1,375,962; Apr. 26; v. 285; p. 633.
- Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Multiple-unit door-control arrangement for cars. No. 1,381,638; June 14; v. 287; p. 301.
- Hedlund, Gustaf E., Brockton, Mass. Shoe and making the same. No. 1,387,712; Aug. 16; v. 289; p. 471.
- Hedman, Bros A. (See Christenson, O. L., and Gisiko, assignors.)
- Hedrick, Harold L., and H. C. Chantler, Columbus, Ohio. Attachment for typewriters. No. 1,381,920; June 21; v. 287; p. 415.
- Hedtler, Robert S., and M. R. Taylor, Norfolk, Va. Variable-direction propelling apparatus. No. 1,392,763; Oct. 4.
- Hedstrom, John P., assignor to Machinery Company of America, Big Rapids, Mich. Saw-sawage. No. 1,401,694; Dec. 27.
- Hedstrom, John P., assignor to Machinery Company of America, Big Rapids, Mich. Saw-tooth shaper. No. 1,401,695; Dec. 27.
- Hedstrom, John P., assignor to Machinery Company of America, Big Rapids, Mich. Saw-grinding machine. No. 1,401,696; Dec. 27.



- Heffner, Harry, Cleveland, Ohio. Stovepipe thimble attachment. No. 1,399,619; Dec. 6.
- Heeren, Benjamin, Minneapolis, Minn. Snuff-box opener. No. 1,381,831; June 14; v. 287; p. 338.
- Heeter, Charles M., Butler, Pa. Casing-head attachment. No. 1,366,075; Jan. 18; v. 282; p. 476.
- Heeter, Thomas E., St. Louis, Mo. Loose-leaf book. No. 1,389,658; Sept. 6; v. 290; p. 20.
- Heeter, Thomas E., St. Louis, and F. J. Hardesty, Maplewood, Mo. Liquid-dispensing device. No. 1,394,010; Oct. 18.
- Heffelfinger, Glen B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Measuring and cutting apparatus. No. 1,392,871; Oct. 4.
- Heffernan, Edward, Douglas Lane, near Sydney, New South Wales, Australia. Friction-type hinge. No. 1,366,657; Jan. 25; v. 282; p. 635.
- Heffernan, Michael, Carrap, Edenhope, Victoria, assignor of one-third to J. C. Glancy, Apsley, Victoria, Australia. Attachment for discharging contents from vessels. No. 1,380,062; May 31; v. 286; p. 957.
- Heffner, Henry C., Bradford, Pa. Combined vegetable parer, slicer, &c. No. 1,367,876; Feb. 8; v. 283; p. 254.
- Heffti, Wilhelm, Wülflingen, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Cylinder-head. No. 1,374,079; Apr. 5; v. 285; p. 136.
- Hegamin, Edgar D., St. Louis, Mo. Flower-holder. No. 1,379,340; May 24; v. 286; p. 747.
- Hegeler, Julius W., Danville, Ill. Treating ores preparatory to smelting. No. 1,378,411; May 17; v. 286; p. 497.
- Heggen, Torkel O., Fort Dodge, Iowa. Interest-computing time-table. No. 1,381,893; June 14; v. 287; p. 350.
- Heggie, William, Dublin, Ireland. Tire for motor-cars and other vehicles. No. 1,365,243; Jan. 11; v. 282; p. 275.
- Heginger, Marie A., New York, N. Y. Food product. No. 1,376,334; Apr. 26; v. 285; p. 704.
- Hegrat, Vlastimil F., Chicago, Ill. Kitchen-sink. No. 1,366,910; Feb. 1; v. 283; p. 6.
- Hegwer, Herman J., Oakland, Calif. Purse. No. 1,379,817; May 31; v. 286; p. 911.
- Hehmann, William, Brooklyn, N. Y. Tongs. No. 1,370,814; Mar. 8; v. 284; p. 247.
- Heibel, Frank B., assignor of one-fourth to W. O. Stacy, one-fourth to F. F. Benish, and one-fourth to J. Seufert, St. Louis, Mo. Saw-guard. No. 1,367,045; Feb. 1; v. 283; p. 32.
- Heiby, Carl G., J. Burkam, D. E. Lindquist, F. L. Rigglin, E. W. Allen, and R. Lau, Sarnia, Ontario, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich. Forging or casting with gripping and driving lugs. No. 1,373,724; Apr. 5; v. 285; p. 66.
- Heiby, Carl G., J. Burkam, D. E. Lindquist, F. L. Rigglin, E. W. Allen, and R. Lau, Sarnia, Ontario, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich. Producing forgings. No. 1,373,725; Apr. 5; v. 285; p. 66.
- Heiby, Carl G., C. A. Hill, and D. E. Lindquist, Sarnia, Ontario, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich. Method of and die for producing forgings. No. 1,373,726; Apr. 5; v. 285; p. 67.
- Heiby, Carl G., J. Burkam, D. E. Lindquist, F. L. Rigglin, E. W. Allen, and R. Lau, Sarnia, Ontario, Canada, assignors, by mesne assignments, to Mueller Metals Company, Port Huron, Mich. Blank for fuse-bodies and the like and forming the same. No. 1,379,983; May 31; v. 286; p. 942.
- Heiby, Carl G., J. Burkam, D. E. Lindquist, F. L. Rigglin, E. W. Allen, and R. Lau, Sarnia, Ontario, Canada, assignor, by mesne assignments, to Mueller Metals Company, Port Huron, Mich. Blank for and method of making fuse-bodies. No. 1,393,121; Oct. 11.
- Heidbrink, Jay A., Minneapolis, Minn. Anesthetizing-machine. No. 1,387,647; Aug. 16; v. 289; p. 458.
- Heidbrink, Jay A., Minneapolis, Minn. Dental wax-warming device. No. 1,396,957; Nov. 15.
- Heideman, Frederick J., Detroit, Mich., assignor to The Isko Company, Chicago, Ill. Compressor. No. 1,401,102; Dec. 20.
- Heidenheim, Emmanuel, New York, N. Y. Rug. No. 1,381,832; June 14; v. 287; p. 338.
- Heider, Henry J., Carroll, Iowa, assignor to Rock Island Plow Company, Rock Island, Ill. Tractor-plow. No. 1,373,613; Apr. 5; v. 285; p. 45.
- Heider, Henry J., Carroll, Iowa, assignor to Rock Island Plow Company, Rock Island, Ill. Tractor-plow. No. 1,375,457; Apr. 19; v. 285; p. 504.
- Heider, Henry J., Carroll, Iowa. Stepladder. No. 1,401,470; Dec. 27.
- Heider, Henry J., assignor to Heider Manufacturing Company, Carroll, Iowa. Coaster-wagon. No. 1,385,946; July 26; v. 288; p. 759.
- Heider Manufacturing Company. (See Heider, Henry J., assignor.)
- Heldman, George, et al. (See Blood, Burr B., assignor.)
- Heidrich, Herman C., et al. (See Wilson, James M., assignor.)
- Heidrich, Stephen L., Brooklyn, N. Y. Support for reinforcing-bars. No. 1,380,332; May 31; v. 286; p. 1008.
- Heidt, D. A. (See Ahlgren, O. W., assignor.)
- Heidt, Jacob G., Evansville, Ind. Ice-tongs. No. 1,401,777; Dec. 27.
- Heidtmann, Wallace A., and G. H. Summer, Hicksville, N. Y. Aerial and marine propulsion. No. 1,370,313; Mar. 1; v. 284; p. 106.
- Heijlman, Frederick C., Martinez, Calif. Stopcock. No. 1,370,745; Mar. 8; v. 284; p. 234.
- Heil, August, Hancock, Minn. Two-way pulley. No. 1,400,435; Dec. 13.
- Heil, Edwin, Wichita, Kans. Current-density indicator. No. 1,374,918; Apr. 19; v. 285; p. 401.
- Heil, Frederick R., and A. J. Bossert, Rochester, N. Y. Indicator. No. 1,400,436; Dec. 13.
- Heil, John, Melrose Park, Ill. Tool for removing cores and valve-core stools from tire-valves. No. 1,393,365; Oct. 11.
- Heilbronner, Ludwig, Stuttgart, Germany. Making paper and paper-like materials waterproof and impermeable to air, at the same time maintaining their suppleness, and articles made from such materials. No. 1,387,004; Aug. 9; v. 289; p. 279.
- Heilig, Bertha, New York, N. Y. Convertible bed. No. 1,369,100; Feb. 22; v. 283; p. 577.
- Heiliger, Paul, Forest Park, Ill. Bellows. No. 1,382,081; June 21; v. 287; p. 444.
- Heilman, Frank, Cleveland, Ohio, assignor to The American Steel and Wire Company, New Jersey, Automatic stop for barb-wire machines. No. 1,399,384; Dec. 6.
- Heilmann, Karl, assignor to R. Wolf Aktiengesellschaft, Magdeburg-Buckau, Germany. Portable or semiportable steam-engine. No. 1,372,430; Mar. 22; v. 284; p. 677.
- Heim, Jacob C., assignor to Brown & Bailey Company, Philadelphia, Pa. Knockdown box. No. 1,400,060; Dec. 13.
- Heim, Richard, Philadelphia, Pa. Enamel for papers. No. 1,381,991; June 21; v. 287; p. 428.
- Heim, Lewis R., assignor to The Ball and Roller Bearing Company, Danbury, Conn. Roll-grinding machine. (Reissue.) No. 15,035; Jan. 25; v. 282; p. 683.
- Heimbach, Alton B., Duluth, Minn. Wrench. No. 1,377,772; May 10; v. 286; p. 323.
- Heimbach, Alton B., Duluth, Minn. Wrench. No. 1,385,994; Aug. 2; v. 289; p. 6.
- Heimrod, George W., Hanover, Germany. Vapor-rectifier for high-potential currents. No. 1,366,452; Jan. 25; v. 282; p. 594.
- Heindl, Stephen O., assignor of one-half to E. Zeitz, Chicago, Ill. Scissors-grinding machine. No. 1,381,416; June 14; v. 287; p. 260.
- Heindl, Stephen O., assignor of one-half to E. Zeitz, Chicago, Ill. Razor grinder. No. 1,393,283; Oct. 11.
- Heindl, William C., Rochester, N. Y. Pinwheel. No. 1,367,389; Feb. 1; v. 283; p. 101.
- Heindrich, Frances, New York, N. Y. Detachable brassiere and corset combination. No. 1,378,676; May 17; v. 286; p. 548.
- Heine, Christian F., Hincley, Ill. Primary-instruction board. No. 1,384,192; July 12; v. 288; p. 242.
- Heine Safety Boiler Company. (See Cotton, Alfred, assignor.)
- Heine Safety Boiler Company. (See Pahnmeier, F. O., and Clay, assignors.)
- Heine, Joseph F. (See Rolle, K., and Heine.)
- Heine, William M., New York, N. Y., assignor to J. Platt, Westfield, N. J. Journal or axle bearing. (Reissue.) No. 15,058; Mar. 8; v. 284; p. 322.
- Heineke, Carl. (See Heineke, Gustave A. and C.)
- Heineke, Emil M., Springfield, Ill. Car-check holder. No. 1,397,889; Nov. 22.
- Heineke, Gustave A. and C., Chicago, Ill. Machine for cleaning furs. No. 1,377,247; May 10; v. 286; p. 222.
- Heinemann, Albert, Berlin-Wilmersdorf, Germany. Producing malted pearl-barley. No. 1,400,160; Dec. 13.
- Heinemann, Albert, Berlin-Wilmersdorf, Germany. Producing a substitute for raw coffee-beans. No. 1,400,161; Dec. 13.
- Heinig, Oscar H., Chicago, Ill. Spool and the like. No. 1,384,562; July 12; v. 288; p. 320.
- Heinke, Albert B., Atlanta, Ga. Stocking. No. 1,399,299; Dec. 6.
- Heinle, Albert W., Crafton, Pa., assignor of one-half to C. D. Russell and one-half to E. B. Swygart, St. Paul, Minn. Method and apparatus for making specially-shaped bars. No. 1,378,860; May 24; v. 286; p. 656.
- Heinle, Rudolph B., Brooklyn, N. Y. Collapsible garment-hanger. No. 1,385,449; July 26; v. 288; p. 659.
- Heinlein, Edward A., and R. A. Stolle, Los Angeles, Calif. Safety device for oiling systems of motors. No. 1,378,349; May 17; v. 286; p. 484.
- Heinrich, Mary E., Freeport, N. Y. Sport-costume. No. 1,396,203; Nov. 8.
- Heinrich, Walter A. (See Matthews, C. L., and Heinrich.)
- Heinrich, Walter A., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Spray-gun. No. 1,382,640; June 28; v. 287; p. 605.
- Heinrich, Walter A., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Spray-gun. No. 1,382,641; June 28; v. 287; p. 605.
- Heinrich, Walter A., assignor to W. N. Matthews and Brother, Inc., St. Louis, Mo. Cut-out switch. No. 1,394,087; Oct. 18.



## Alphabetical list of patentees—Continued.

- Heinrich, William. (See Capewell, William R. H., assignor.)
- Heinrichs, Berg, assignor to Mid-West Box Company, Anderson, Ind. Machine for sealing boxes. No. 1,393,122; Oct. 11.
- Heinsohn, Ditmar, Oberursel on Taunus, Germany. Eyelet and hook setting machine. No. 1,390,057; Dec. 6.
- Heintz, Ernest E., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Window-regulator. No. 1,398,693; Nov. 29.
- Heintz, William J., Utica, N. Y. Paper-holder. No. 1,370,314; Mar. 1; v. 284; p. 106.
- Heintze, Edmund, St. Louis, Mo., assignor to Scholl Mfg. Co., Chicago, Ill. Two-piece arch-support for correcting metatarsal foot troubles. No. 1,401,254; Dec. 27.
- Heintzman, Edward A., Hoboken, N. J. Screwdriver. No. 1,396,748; Nov. 15.
- Heinz, H. J., Company. (See Gallerani, Alexander, assignor.)
- Heinze, Jack. (See Taylor, Ritchie O., assignor.)
- Heinze, John O., Boyne City, Mich. Turbine. No. 1,388,707; Aug. 23; v. 289; p. 724.
- Heinze, John O., assignor to Traction Engine Company, Boyne City, Mich. Motor-vehicle. No. 1,393,779; Oct. 18.
- Heinze, John O., assignor to Traction Engine Company, Boyne City, Mich. Tractor. No. 1,393,780; Oct. 18.
- Heinze, John O., assignor to Traction Engine Company, Boyne City, Mich. Tractor. No. 1,369,923; Mar. 1; v. 284; p. 32.
- Heinze, John O., assignor to Traction Engine Company, Boyne City, Mich. Cylinder construction. No. 1,399,058; Dec. 6.
- Heise, Roscoe S., assignor to Miami Cycle & Mfg. Co., Middletown, Ohio. Bicycle-pedal. No. 1,366,076; Jan. 18; v. 282; p. 476.
- Heise, Roscoe S., assignor to The Miami Cycle & Mfg. Co., Middletown, Ohio. Cycle construction. No. 1,385,129; July 19; v. 288; p. 519.
- Heisel, Rudolph A., Luverne, Minn. Wood-saw. No. 1,387,264; Aug. 9; v. 289; p. 328.
- Heising, Raymond A., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Power modulation for radiotransmission. No. 1,383,807; July 5; v. 288; p. 114.
- Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Packing. No. 1,386,865; Aug. 9; v. 289; p. 251.
- Heister, Daniel C., Boulder, Colo. Lubricating device for internal-combustion engines and the like. No. 1,391,734; Sept. 27; v. 290; p. 666.
- Hettler, Kurt, New York, N. Y. Garment. No. 1,366,335; Jan. 18; v. 282; p. 527.
- Heltman, John, Seattle, Wash. Phonograph-record cabinet. No. 1,397,517; Nov. 22.
- Hettmann, Frank J., et al. (See Weier, Jacob J., assignor.)
- Heitsch, William A., Lancaster, Pa. Automatic feeder for book-stitching machines. No. 1,399,555; Dec. 6.
- Hejhal, Otto B., Chicago, Ill. Rotary engine. No. 1,372,750; Mar. 29; v. 284; p. 780.
- Helburn Thompson Company. (See Cass, C. W., and Baxter, assignors.)
- Helburn Thompson Company. (See Thompson, A. E., and Baxter, assignors.)
- Helden, Alfred H., Kansas City, Mo. Combined fixed-angle square and protractor. No. 1,365,991; Jan. 18; v. 282; p. 460.
- Heley, Albert E. and T. W. Aitken, Luton, England. Rising hinge. No. 1,365,100; Jan. 11; v. 282; p. 247.
- Helfand, Samuel, Erie, Pa. Piston-ring-saw machine. No. 1,365,101; Jan. 11; v. 282; p. 247.
- Helfman, Nathan B. (See Davis, A., and Helfman.)
- Helfrich, Michael D. (See Henn, William A., assignor.)
- Helguera, Ignacio, Trenton, N. J. Keyboard finger-guide. No. 1,377,770; May 3; v. 286; p. 132.
- Helka, Michal, Carthage, N. Y. Picture-hanger. No. 1,382,908; June 28; v. 287; p. 655.
- Helland, Herman H., Petersburg, N. D. Detachable mud hook or spike for tractor-wheels. No. 1,368,629; Feb. 15; v. 283; p. 446.
- Hellberg, Harold, Quincy, Mass. Pocket seal-press. No. 1,365,401; Jan. 11; v. 282; p. 305.
- Hellberg, Harold, West Somerville, Mass. Pocket seal-press. No. 1,399,620; Dec. 6.
- Helle, Warren W., Hinsdale, assignor of one-half to A. Watters, Chicago, Ill. Pressure-tester. No. 1,372,022; Mar. 22; v. 284; p. 599.
- Hellem, Nels, Portland, Ore. Hand-truck. No. 1,397,098; Nov. 15.
- Hellems, Leonard M., and G. C. Shafer, McClungs, W. Va. Self-supporting sled-tongue. No. 1,374,148; Apr. 5; v. 285; p. 149.
- Heller, Alfred B., Hamburg, Pa. Sanitary flytrap. No. 1,392,156; Sept. 27; v. 290; p. 751.
- Heller, Benjamin, Chicago, Ill. Insect-destroyer. No. 1,394,497; Oct. 18.
- Heller, Henry R., New York, N. Y., assignor, by mesne assignments, to Auto Pneumatic Action Co. Player-piano action. No. 1,393,123; Oct. 11.
- Heller, Henry R., New York, N. Y., assignor to Winter & Co. Player-piano action. No. 1,401,778; Dec. 27.
- Heller, Jacob, et al. (See Weisberg, Aaron, assignor.)
- Heller, John W., Buena, N. J. Folding rule. No. 1,394,088; Oct. 18.
- Heller, Samuel D., and L. Herron, Pontiac, Mich. Automobile brake mechanism. No. 1,400,286; Dec. 13.
- Heller, William A. (See McGowan, W. H., Heller, and Tierney.)
- Hellerstedt, Axel E., Great Falls, Mont. Electrical attachment-plug. No. 1,372,288; Mar. 22; v. 284; p. 650.
- Helling, John S., Visalia, Calif. Insect-trap. No. 1,369,429; Feb. 22; v. 283; p. 641.
- Hellman, Samuel J., Los Angeles, Calif. Motor-vehicle antitheft device. No. 1,373,242; Mar. 29; v. 284; p. 878.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Phase-converter balancing system. No. 1,365,691; Jan. 18; v. 282; p. 400.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for controlling flashing in high-voltage commutator-machines. No. 1,367,140; Feb. 1; v. 283; p. 51.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,367,473; Feb. 1; v. 283; p. 117.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,371,559; Mar. 15; v. 284; p. 454.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay. No. 1,371,560; Mar. 15; v. 284; p. 455.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,373,002; Mar. 29; v. 284; p. 831.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Recuperative system for alternating-current commutator-motors. No. 1,374,564; Apr. 12; v. 285; p. 270.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Alternating-current commutator-motor. No. 1,374,565; Apr. 12; v. 285; p. 271.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Self-compounding phase-converter. No. 1,376,428; May 3; v. 286; p. 10.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Phase-converter exciting system. No. 1,376,429; May 3; v. 286; p. 10.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Method of and apparatus for exciting phase-converters. No. 1,376,430; May 3; v. 286; p. 10.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,376,431; May 3; v. 286; p. 10.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control for induction-machines. No. 1,376,432; May 3; v. 286; p. 11.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Winding for dynamo-electric machines. No. 1,376,433; May 3; v. 286; p. 11.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Method of and apparatus for operating induction-machines. No. 1,376,434; May 3; v. 286; p. 11.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dynamo-electric machine and system of control therefor. No. 1,379,406; May 24; v. 286; p. 759.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Phase-converting system. No. 1,381,303; June 14; v. 287; p. 238.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ventilating apparatus. No. 1,385,995; Aug. 2; v. 289; p. 6.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company. Regenerative control system. No. 1,385,996; Aug. 2; v. 289; p. 6.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control of single-phase commutator-generators. No. 1,385,997; Aug. 2; v. 289; p. 7.
- Hellmund, Rudolf E. (See Storer, N. W., and Hellmund.)
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,393,442; Oct. 11.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Armature-excited dynamo-electric machine. No. 1,395,344; Nov. 1.
- Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Damping windings for dynamo-electric machines. No. 1,396,838; Nov. 15.
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- Hellmuth, Augustin, West New York, N. J. Window-fixture. No. 1,388,643; Aug. 23; v. 289; p. 711.
- Hellner, Karl, Falun, Sweden. Rotary boiler. No. 1,390,965; Sept. 13; v. 290; p. 375.
- Hellström, Gustaf, London, England. Machine for removing bark, bast, and similar material from logs and like articles. No. 1,373,243; Mar. 29; v. 284; p. 879.
- Hellstrom, Oscar B., Neutral Bay, Sydney, New South Wales, Australia. Trousers-stretcher. No. 1,377,580; May 10; v. 286; p. 285.
- Hellweg, Henry, Milwaukee, Wis. Automatic valve. No. 1,375,696; Apr. 26; v. 285; p. 583.
- Helmer, Oliver A., New York, N. Y. File-record and mount for X-ray negatives. No. 1,387,488; Aug. 16; v. 289; p. 426.
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,364,551; Jan. 4; v. 282; p. 98.
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,392,940; Oct. 11.
- Helmond, William F., Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,399,480; Dec. 6.
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- Helsabeck, Theodore L., Bradford, Fla. Propeller. No. 1,375,907; Apr. 26; v. 285; p. 622.
- Helseeth, Iver J., Madison, S. D. Emergency axle and wheel. No. 1,372,813; Mar. 29; v. 284; p. 792.
- Helvig, Gilbert O., Dawson, Minn. Valve-cap. No. 1,368,723; Feb. 15; v. 283; p. 465.
- Helwig, George L., Philadelphia, Pa. Chain. No. 1,372,689; Mar. 29; v. 284; p. 768.
- Heltzel, Francis O. (See Heltzel, John N. and F. O.)
- Heltzel, John N. and F. O., Warren, Ohio. Concrete-form. No. 1,382,082; June 21; v. 287; p. 445.
- Heltzel, Joseph W., Warren, Ohio. Road-building machine. No. 1,380,879; June 7; v. 287; p. 11.
- Helzman, Herman, and S. Brainin, New York, N. Y. Paper or bill file. No. 1,396,428; Nov. 8.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Pendulum weighing-scale. No. 1,364,369; Jan. 4; v. 282; p. 62.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,366,881; Jan. 25; v. 282; p. 679.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,369,101; Feb. 22; v. 283; p. 577.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,369,102; Feb. 22; v. 283; p. 578.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Pendulum weighing mechanism. No. 1,369,103; Feb. 22; v. 283; p. 578.
- Hem, Halvorn Q., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,378,110; May 17; v. 286; p. 441.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,392,827; Oct. 4.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Predetermined-weight scale. No. 1,397,518; Nov. 22.
- Hemenway, Walter G., Los Angeles, Calif. Carbureter. No. 1,398,459; Nov. 29.
- Hemes Electric Manufacturing Company. (See He, William, assignor.) (Reissue.)
- Hemington, Edward J., Lakewood, Ohio. Child's vehicle. No. 1,373,814; Apr. 5; v. 285; p. 84.
- Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Lock-stitch sewing-machine. No. 1,378,677; May 17; v. 286; p. 549.
- Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Driving and controlling mechanism for power operated machines. No. 1,384,464; July 12; v. 288; p. 299.
- Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Motor attachment for sewing-machines. No. 1,395,640; Nov. 1.
- Hemme, August F., Dublin, Ontario, Canada. Seeding-machine. No. 1,380,555; June 7; v. 287; p. 44.
- Hempel, Albert C., and F. O. Boswell, Philadelphia, Pa. Automobile-lock. No. 1,364,198; Jan. 4; v. 282; p. 29.
- Hemphill Company. (See Bosworth, George P., assignor.)
- Hemphill Company. (See Fenn, Ray, assignor.)
- Hemphill Company. (See Houck, William A., assignor.)
- Hemphill Company. (See Lawson, John, assignor.)
- Hemphill, George E. (See Evans, E. J., and Hemphill.)
- Hemphill, George F. (See Severance, H. W., and Hemphill.)
- Hemphill, Henry B., assignor of one-fourth to A. Bucovaz and one-fourth to R. Clavara, Eldorado, Ill. Burner for stoves. No. 1,392,643; Oct. 4.
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- Hempy-Cooper Manufacturing Company. (See Hempy, Wilbur J., assignor.)
- Hempy, Wilbur J., Kansas City, Mo., assignor to Hempy-Cooper Manufacturing Company. Babbitting-jig. No. 1,380,380; June 7; v. 287; p. 11.
- Henba, Joseph, Brooklyn, N. Y. Balloon. No. 1,383,206; June 28; v. 287; p. 712.
- Hench, Martin K., Camden, assignor of one-half to L. G. Buckwalter, Merchantville, N. J. Apparatus for manufacturing washers. No. 1,381,462; June 14; v. 287; p. 268.
- Hench, William M., East Orange, N. J. Lifting-clamp. No. 1,369,807; Mar. 1; v. 284; p. 10.
- Hendel, Paul, High Ridge, Mo. Turning shovel-plow. No. 1,401,779; Dec. 27.
- Hendershot, Samuel D., Independence, Calif. Centering device. No. 1,390,906; Sept. 13; v. 290; p. 363.
- Hendershott, Charles A., Grand Rapids, Mich. Dry-kiln truck. No. 1,389,353; Aug. 30; v. 289; p. 908.
- Henderson, Albert H., Towson, Md. Manufacture of steel. No. 1,378,861; May 24; v. 286; p. 656.
- Henderson, Angus. (See Moore, William E., assignor.)
- Henderson, Carl, Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Sheet-registering mechanism. No. 1,367,257; Feb. 1; v. 283; p. 75.
- Henderson, Carl, Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Inking mechanism for printing-presses. No. 1,383,945; July 5; v. 288; p. 142.
- Henderson, Charles C., Spring Valley, Minn. Bag-tie. No. 1,386,058; Aug. 2; v. 289; p. 20.
- Henderson, Daniel D., assignor of one-half to W. R. Drexel, Houston, Tex. Valve-cleaner. No. 1,399,962; Dec. 13.
- Henderson, Daniel O., Denver, Colo. Robe-rail. No. 1,377,682; May 10; v. 286; p. 305.
- Henderson, Edwin L., assignor to The Kemper Thomas Company, Norwood, Ohio. Paper chest-protector. No. 1,390,033; Sept. 6; v. 290; p. 96.
- Henderson, Edwin L., assignor to The Kemper Thomas Company, Norwood, Ohio. Bag. No. 1,400,499; Dec. 13.
- Henderson, George. (See Hazen, H. B., and Henderson.)
- Henderson, George A., St. Albans, assignor to T. S. Clark, Charleston, W. Va. Vegetable-fiber composition and making same. No. 1,370,647; Mar. 8; v. 284; p. 215.
- Henderson, George A., St. Albans, assignor to The Bitu-concrete Company of America, Charleston, W. Va. Pavement and making the same. No. 1,370,815; Mar. 8; v. 284; p. 247.
- Henderson, George F., Springfield, Mass. Surfacing-machine for finishing metal surfaces. No. 1,370,441; Mar. 1; v. 284; p. 130.
- Henderson, James F. (See Hutchinson, John E., assignor.)
- Henderson, John C., New York, N. Y., assignor to Driver-Harris Company, Harrison, N. J. Producing compound metals. No. 1,392,416; Oct. 4.
- Henderson, Lillian D., Creekside, Pa. Clothes-hanger. No. 1,364,754; Jan. 4; v. 282; p. 136.
- Henderson, Melville T. (See Buren, A. E., and Henderson.)
- Henderson, Monroe L., Moore, Mont. Tire-chain. No. 1,389,870; Sept. 6; v. 290; p. 62.
- Henderson, Morris O., Story City, Iowa. Hitch for harvesting machinery. No. 1,375,963; Apr. 26; v. 285; p. 633.
- Henderson, Robert H., East Orange, N. J. Combined hand and stationary conduit-bender. No. 1,379,016; May 24; v. 286; p. 686.
- Henderson, Robert I., Toronto, Ontario, Canada. Carbureter. No. 1,393,366; Oct. 11.
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- Henderson, Thomas J., Columbus, Ga. Hanger for trolley-wires. No. 1,372,507; Mar. 22; v. 284; p. 692.
- Henderson, William A. (See Chestnut, C. E., and Henderson.)
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- Henderson, Yandell, New Haven, Conn. Mask for the inhalation of carbon dioxide. No. 1,396,429; Nov. 8.
- Hendey, Frederick H., assignor to The Okonite Company, Passaic, N. J. Apparatus for handling reels or spools of insulated wire. No. 1,370,535; Mar. 8; v. 284; p. 193.
- Hender, Max. (See Tamarin, Abraham and F., and Hender.)
- Hendley, John J., Brunswick, Ga. Water-wheel. No. 1,401,077; Dec. 20.
- Hendrick, Aaron. (See Youse, Robert L., assignor.)
- Hendricks, Allan B., Jr., Pittsfield, Mass., assignor to General Electric Company. Water-cooled electrical apparatus. No. 1,394,899; Oct. 25.
- Hendricks, Harry J., Sterling Station, N. Y. Lubricating system. No. 1,391,634; Sept. 20; v. 290; p. 572.



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- Hendricks, Udell L., Pella, Iowa. Tobacco-stripping machine. No. 1,365,992; Jan. 18; v. 282; p. 460.
- Hendrickson, Fred K., assignor to Reed-Prentice Company, Worcester, Mass. Face-plate loosening device for lathes. No. 1,365,826; Jan. 18; v. 282; p. 428.
- Hendrickson, Fred K., assignor to Reed-Prentice Company, Worcester, Mass. Open and shut nut locking device. No. 1,365,827; Jan. 18; v. 282; p. 428.
- Hendrickson, Fred K., assignor to Reed-Prentice Company, Worcester, Mass. Belt-shipper. No. 1,365,828; Jan. 18; v. 282; p. 428.
- Hendrickson, Gustaf A., Chicago, Ill. Piston-ring. No. 1,369,104; Feb. 22; v. 283; p. 578.
- Hendrickson, James G., Bayonne, N. J. Writing and drawing apparatus. No. 1,386,332; Aug. 2; v. 289; p. 74.
- Hendrickson, Robert O., assignor to Wallis Tractor Company, Racine, Wis. Valve-actuating mechanism. No. 1,378,111; May 17; v. 286; p. 440.
- Hendrickson, Robert O., assignor to J. I. Case Plow Works Company, Racine, Wis. Guiding mechanism for tractors. No. 1,379,762; May 31; v. 286; p. 900.
- Hendry, Ellen, Fresno, Calif. Inflatable globe. No. 1,383,115; June 28; v. 287; p. 695.
- Hendry, William, Tacoma, Wash. Seaman's net-needle. No. 1,374,503; Apr. 12; v. 285; p. 259.
- Henemer, Robert H., New York, N. Y. Tire-protector. No. 1,369,026; Feb. 22; v. 283; p. 563.
- Henemer, Robert H., New York, assignor to A. Schrader's Son Incorporated, Brooklyn, N. Y. Tire-valve. No. 1,367,815; Feb. 8; v. 283; p. 242.
- Henemer, Robert H., assignor to A. Schrader's Son, Inc., Inc., Brooklyn, N. Y. Dust-cap for tire-valves. No. 1,390,707; Sept. 13; v. 290; p. 322.
- Henerlau, George C., Newark, N. J. Dental-floss holder. No. 1,368,555; Feb. 15; v. 283; p. 432.
- Henes, William M., Amherst, Mass. Bed-pad. No. 1,377,683; May 10; v. 286; p. 305.
- Hengstenberg, Paul M., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Connector. No. 1,374,566; Apr. 12; v. 285; p. 271.
- Henington, Clive K., De Smet, S. D. Automatic pitch-adjuster for propeller-blades. No. 1,364,755; Jan. 4; v. 282; p. 136.
- Henington, Clive K., Davis, Okla. Automatic pitch-adjuster for propeller-blades. No. 1,388,038; Aug. 16; v. 289; p. 535.
- Henke, Harold W., Lewisham, London, England. Speed-indicating instrument or the like. No. 1,393,624; Oct. 11.
- Henkel, August G., assignor to D. B. Fisk & Co., Chicago, Ill. Hat-shaping device. No. 1,392,828; Oct. 4.
- Henkle, Willis R., Lima, Ohio. Foldable clothesbrush. No. 1,374,010; Apr. 5; v. 285; p. 123.
- Henley, Micajah C., Richmond, Ind. Automatic oil-drip catcher. No. 1,366,729; Jan. 25; v. 282; p. 649.
- Henley, Micajah C., Richmond, Ind. Automatic oil-drip catcher. No. 1,382,782; June 28; v. 287; p. 632.
- Henn, William A., assignor of one-half to M. D. Helfrich, Evansville, Ind. Attachment for woodworking-shapers. No. 1,378,350; May 17; v. 286; p. 485.
- Henne, Isabelle. (See Preo, J. L., and Henne.)
- Henne, Isabelle, and J. L. Preo, New York, N. Y. Machine for boring and drilling. No. 1,369,656; Feb. 22; v. 283; p. 685.
- Henne, Isabelle, and J. L. Preo, New York, N. Y. Machine for affixing heels to shoes. No. 1,376,539; May 3; v. 286; p. 30.
- Hennebault, Otto J., New York, N. Y. Bicycle. No. 1,374,078; Apr. 5; v. 285; p. 136.
- Henneberry, Lawrence T., Boston, Mass. Cutter-head. No. 1,372,949; Mar. 29; v. 284; p. 821.
- Henneböhle, Frank, Chicago, Ill. Hydraulic testing system. No. 1,368,147; Feb. 8; v. 283; p. 304.
- Hennegan, Eva N., Cincinnati, Ohio. Amusement device. No. 1,395,674; Nov. 1.
- Hennegan, Paul M., Cincinnati, Ohio, assignor to F. D. Spotswood, Lexington, Ky. Advertising or display novelty. No. 1,389,551; Aug. 30; v. 289; p. 947.
- Hennessey, John H., Providence, R. I. Pin-tongue. No. 1,396,975; Nov. 8.
- Hennessey, D. E., Holyoke, Mass., and J. McGeorge, Cleveland, Ohio, assignors to H. W. Cowan, J. L. Wyckoff, and E. N. White, trustees, Holyoke, Mass. Vehicle steering mechanism. No. 1,382,909; June 28; v. 287; p. 656.
- Hennessey, Daniel E., Holyoke, Mass., assignor to H. W. Cowan, J. L. Wyckoff, and E. N. White, trustees, doing business as the Cowan Truck Company. Elevating-truck. No. 1,373,069; Mar. 29; v. 284; p. 843.
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- Hennessey, Daniel E., Holyoke, Mass., assignor to Cowan Truck Company. Elevating-truck. No. 1,390,992; Sept. 20; v. 290; p. 442.
- Hennessey, Daniel E., Cudahy, Wis., assignor to The Sturdi-Truck Company, Northampton, Mass. Elevating-truck. No. 1,376,809; May 3; v. 286; p. 81.
- Hennessy, James J., New York, N. Y. Journal lubricator. No. 1,366,730; Jan. 25; v. 282; p. 649.
- Hennessy, James J., New York, N. Y. Automatic journal-lubricator. No. 1,378,452; May 17; v. 286; p. 504.
- Hennessy, James J., New York, N. Y. Hub-lubricating device. No. 1,378,453; May 17; v. 286; p. 505.
- Henney, David S., Montclair, N. J. Spark-plug. No. 1,392,329; Oct. 4.
- Hennicke, Carl R., Buffalo, N. Y. Hood-fastener. No. 1,400,953; Dec. 20.
- Hennig, Hermann O., Atlanta, Ga. Broom. No. 1,395,109; Oct. 25.
- Hennigan, Daniel. (See Arrouquier, Frederick E., assignor.)
- Henning, Albert, Leytonstone, England. Means for cooling internal-combustion engines and other machinery. No. 1,383,270; June 28; v. 287; p. 724.
- Henning, Albert, Leytonstone, England. Washing or cleaning machine. No. 1,387,776; Aug. 16; v. 289; p. 485.
- Henning, Albert, Leytonstone, London, England. Non-inflammable volatile liquid. No. 1,393,124; Oct. 11.
- Henning, Albert, London, England. Non-flammable volatile liquid. No. 1,386,497; Aug. 2; v. 289; p. 103.
- Henning, Clarence I. B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Propellant smokeless-powder charge. No. 1,393,623; Oct. 11.
- Henning, Frederick C., assignor to The Miracle Artificial Arm Co., Chicago, Ill. Artificial hand. No. 1,365,692; Jan. 18; v. 282; p. 401.
- Henning, Frederick C., assignor to The Miracle Artificial Arm Co., Chicago, Ill. Artificial arm. No. 1,366,453; Jan. 25; v. 282; p. 594.
- Henninger, Charles D., Williamsport, Pa. Savings-bank. No. 1,381,190; June 14; v. 287; p. 218.
- Henninger, Philip E., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Commutating-pole construction. No. 1,401,697; Dec. 27.
- Henon, John D., Philadelphia, Pa. Adjustable templet-form holder for self-centering templet-holders. No. 1,393,125; Oct. 11.
- Henrie, Samuel E., Provo, Utah. Vehicle-wheel tire. No. 1,365,171; Jan. 11; v. 282; p. 261.
- Henritzy, George S., Hazleton, Pa. Flag. No. 1,398,555; Nov. 29.
- Henry, Albert, Nebraska City, Nebr. Register. No. 1,369,027; Feb. 22; v. 283; p. 563.
- Henry, Charles T., et al. (See Gould, Edwin J., assignor.)
- Henry, Earle G., Newburg, Oreg. Lettering-pen attachment. No. 1,390,290; Sept. 13; v. 290; p. 239.
- Henry, Edmond, Paris, France. Rotary pump with sliding plates. No. 1,385,619; July 26; v. 288; p. 694.
- Henry, Ernest J., Cedar Rapids, Iowa. Automatic furnace-damper controller. No. 1,395,709; Nov. 1.
- Henry, Ferdinand G., New York, N. Y. Resilient wheel. No. 1,387,777; Aug. 16; v. 289; p. 485.
- Henry, Frank M., Vineland, N. J. Vehicle tire and rim. No. 1,371,167; Mar. 8; v. 284; p. 313.
- Henry, Gabriel, Quebec, Quebec, Canada. Traffic-register. No. 1,368,798; Feb. 15; v. 283; p. 479.
- Henry, George E., Bellmore, N. Y., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-seat. No. 1,364,756; Jan. 4; v. 282; p. 137.
- Henry, George J., et al. (See Dolbear, Clinton E., assignor.)
- Henry, George J. (See Shoenberg, M. H., and Henry.)
- Henry, George J., San Francisco, Calif. Radiant reflector. No. 1,393,368; Oct. 11.
- Henry, George M., Pullman, Wash. Phonograph-record-cabinet attachment. No. 1,393,284; Oct. 11.
- Henry, Georges, Geneva, Switzerland. Watch. No. 1,372,814; Mar. 29; v. 284; p. 793.
- Henry, Georges E., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-wire clamp. No. 1,367,598; Feb. 8; v. 283; p. 200.
- Henry, Georges E., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor-support. No. 1,367,599; Feb. 8; v. 283; p. 200.
- Henry, Harold, St. Agathe des Monts, Quebec, Canada. Holder for sputum-cups. No. 1,364,370; Jan. 4; v. 282; p. 62.
- Henry, Harold M., Pottstown, Pa. Vehicle-tire. No. 1,370,442; Mar. 1; v. 284; p. 130.
- Henry, Hubert K., Detroit, Mich., assignor, by mesne assignments, to Rex Typewriter Company, Incorporated, Fond du Lac, Wis. Typewriting-machine. No. 1,387,543; Aug. 16; v. 289; p. 437.
- Henry, Hyman & Co. (See Druva, John T., assignor.) (Reissue.)
- Henry, Ivan, et al. (See Newth, Basil, assignor.)
- Henry, James C., East St. Louis, Ill. Carbureter. No. 1,364,110; Jan. 4; v. 282; p. 12.
- Henry, James N. (See Coady, Matthew D., assignor.)
- Henry, John. (See Kennal, J., and Henry.)
- Henry, John W. (See Holbrook, Willie L., assignor.)
- Henry, John W., New York, N. Y. Hair-cutter. No. 1,391,635; Sept. 20; v. 290; p. 573.
- Henry, Joseph, Philadelphia, Pa. Transmission-band. No. 1,378,862; May 24; v. 286; p. 656.
- Henry, Joseph T., et al. (See Gould, Edwin J., assignor.)
- Henry, Leonard E. (See Hall, Joseph A., assignor.)
- Henry, Michael, Chicago, Ill. Tie-fastener. No. 1,388,259; Aug. 23; v. 289; p. 636.



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- Henry, Nelson B., Atlanta, Ga., assignor to The Murray Company, Dallas, Tex. Cake-forming and cage-loading mechanism for oil presses. No. 1,376,275; Apr. 26; v. 285; p. 693.
- Henry, Nelson B., Atlanta, Ga., assignor to The Murray Company, Dallas, Tex. Pump for hydraulic presses. No. 1,377,248; May 10; v. 286; p. 222.
- Henry, Paul, Neuilly-sur-Seine, France. Closure-plug for tanks. No. 1,399,345; Dec. 6.
- Henry, René A., Paris, France. Tent or the like. No. 1,374,300; Apr. 12; v. 285; p. 219.
- Henry, Robert G. (See Bayrer, William J., assignor.)
- Henry, Theophilus P. (See Nail, J. E., and Henry.)
- Henry Wilhelm Company. (See Maussner, Frederick, assignor.)
- Henry, William S. (See Howe, W. K., Henry, and Hall.)
- Hensal, Elmer A., Panora, and G. R. Slaybaugh, Yale, Iowa. Barrel-rack. No. 1,366,454; Jan. 25; v. 282; p. 594.
- Henschel, Charles J., Brooklyn, N. Y. Marine telegraph. No. 1,367,258; Feb. 1; v. 283; p. 75.
- Henschel, Charles J., Brooklyn, N. Y. Lamp-fixture. No. 1,377,480; May 10; v. 286; p. 268.
- Henschel, Charles J., Brooklyn, N. Y. Ship's telegraph. No. 1,393,684; Oct. 11.
- Henschel, Charles J., Brooklyn, N. Y. Annunciator-drop. No. 1,393,685; Oct. 11.
- Hensel, Otto W., Lakefield, Minn. Posthole auger. No. 1,401,780; Dec. 27.
- Hensler, Arthur C., et al. (See Evans, Fred, assignor.)
- Hensley, Charles G., Brooklyn, N. Y. Reproducer for phonographs. No. 1,379,407; May 24; v. 286; p. 759.
- Hensley, Charles G., Brooklyn, N. Y. Device for impressing sound-waves on diaphragms. No. 1,397,048; Nov. 15.
- Hensou, George S., Rushville, Mo. Heat-generator for water. No. 1,366,455; Jan. 25; v. 282; p. 595.
- Henszey, Roy O., Chicago, Ill. Machine for testing sealed cans. No. 1,372,690; Mar. 29; v. 284; p. 768.
- Henthorn, Oscar, Brown township, Montgomery county, Ind. Fertilizer-feeder for cultivators. No. 1,387,265; Aug. 9; v. 289; p. 329.
- Henton, H. Benne. (See O'Brien, Harry E., assignor.)
- Hentschel, Charles T., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,378,454; May 17; v. 286; p. 505.
- Hentschel, Edward O., Cleveland, Ohio. Distributing-roller for printing-presses. No. 1,396,110; Nov. 8.
- Hentschel, Paul J., Baltimore, Md. Cigar-perforator. No. 1,376,335; Apr. 26; v. 285; p. 705.
- Hentschke, Paul, Los Angeles, Calif. Internal-combustion engine. No. 1,398,430; Nov. 29.
- Hentschke, Paul, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Emergency engine control. No. 1,388,859; Aug. 30; v. 289; p. 803.
- Hepburn, George A. W. (See Dickinson, H., and Hepburn.)
- Hepburn, Ruhl. (See Bennett, Edward O., assignor.)
- Hepler, Walter. (See Reed, W. B., and Hepler.)
- Heppel, Jean, Newark, N. J. Airship. No. 1,390,993; Sept. 20; v. 290; p. 442.
- Heppes, George P., et al. (See Cumfer, H., and McFarland, assignors.)
- Heppes, Otto A., Chicago, Ill. Waterproof covering and making same. No. 1,376,092; Apr. 26; v. 285; p. 658.
- Heppes, Otto A., La Grange, Ill. Roll and package. No. 1,380,475; June 7; v. 287; p. 29.
- Heppes, Otto A., Chicago, Ill., and C. E. Raahr, Brookline, Mass. Process of making prepared roofing and apparatus used in connection therewith. No. 1,392,498; Oct. 4.
- Hepworth, S. S., Company, et al., assignees. (See Mackintosh, Edward D., Reissue.)
- Hepworth, S. S., Company. (See Olcott, Charles A., assignor.)
- Herbener, John H., Norfolk, Va. Flag and producing the same. No. 1,372,508; Mar. 22; v. 284; p. 692.
- Herbener, John H., Norfolk, Va. Flag. No. 1,398,376; Nov. 29.
- Herbert, Clarence C., Lincoln, Nebr. Electric water-heater. No. 1,384,719; July 12; v. 288; p. 353.
- Herbert, Elmer H., Oakland, Calif. Theatrical automobile-race. No. 1,400,818; Dec. 20.
- Herbert, John W. (See Andrews, J. A., and Herbert.)
- Herbert, Thomas L., and M. W. Askin, Washington, D. C. Liquid-measuring device. No. 1,379,763; May 31; v. 286; p. 900.
- Herbest, Thomas R., Jr., Philadelphia, assignor to Consolidated Expanded Metal Company, Braddock, Pa. Guard device. No. 1,388,644; Aug. 23; v. 289; p. 712.
- Herbold, Philip, Gallion, Ohio. Folding-seat bed. No. 1,384,833; July 19; v. 288; p. 457.
- Herbrick, Milton B., Omaha, Nebr. Concrete building-slab. No. 1,394,550; Oct. 25.
- Herchen, Arthur, Providence, R. I. Can-opener. No. 1,387,396; Aug. 9; v. 289; p. 357.
- Hercules Motor Manufacturing Company, The. (See Balough, Charles, assignor.)
- Hercules Powder Company. (See Langmeier, Arthur, assignor.)
- Herd, Oscar W., Tulare, Calif. Incubator and brooder. No. 1,386,569; Aug. 2; v. 289; p. 118.
- Herrick, John, Kansas City, Mo. Rule-holder. No. 1,374,373; Apr. 12; v. 285; p. 233.
- Hering, Alfonso, Brooklyn, N. Y. Typewriter accent-key attachment. No. 1,365,993; Jan. 18; v. 282; p. 460.
- Hering, Alfonso, Brooklyn, N. Y. Typewriter accent-key attachment. No. 1,365,994; Jan. 18; v. 282; p. 460.
- Hering, Alfonso, Brooklyn, N. Y. Reversible typewriter-type. No. 1,401,471; Dec. 27.
- Hering, Carl, Philadelphia, Pa. Method of and means for increasing power factor. No. 1,389,354; Aug. 30; v. 289; p. 908.
- Hering, Carl, Philadelphia, Pa. Method of and apparatus for transmitting heat. No. 1,390,783; Sept. 13; v. 290; p. 338.
- Hering, Max, Ronneburg, Germany. Locking device for detachable wheel-hubs. No. 1,394,257; Oct. 18.
- Herman, Bernadette M. (See Herman, Joseph F., assignor.)
- Herman, Claude A., Bridgeport, Conn. Ball-bearing hand-piece for tools. No. 1,380,716; June 7; v. 287; p. 75.
- Herman, Claude A., Bridgeport, Conn. Angled handpiece. No. 1,380,717; June 7; v. 287; p. 75.
- Herman, Claude A., Bridgeport, Conn. Power-driven screwdriver. No. 1,394,089; Oct. 18.
- Herman, F. E. (See Gase, George A., assignor.)
- Herman, Frank J., Los Angeles, Calif. Adjustable socket-wrench. No. 1,379,918; May 31; v. 286; p. 930.
- Herman, John, Los Angeles, Calif. Ore-crusher. No. 1,395,959; Nov. 1.
- Herman, Joseph F., assignor to B. M. Herman, Washington, D. C. Antiskidding chain for wheels. No. 1,383,628; July 5; v. 288; p. 77.
- Herman, Leo, and F. J. Karg, Akron, Ohio. Change-speed gearing. No. 1,392,157; Sept. 27; v. 290; p. 751.
- Herman, Lewis, Jr., Summer Hill, New South Wales, Australia. Manufacture of hats. No. 1,379,341; May 24; v. 286; p. 747.
- Herman, Meyer, Chicago, Ill. Trestle. No. 1,380,718; June 7; v. 287; p. 75.
- Herman Tire Building Machine Company, The. (See Hermann, Walter H., assignor.)
- Hermann, Charles A., Milwaukee, Wis. Mattress or the like. No. 1,398,297; Nov. 29.
- Hermann, Joseph. (See Wicker, Adelbert R., assignor.)
- Hermann, Walter H., Lancaster, assignor to The Herman Tire Building Machine Company, Columbus, Ohio. Tire-building machine, (vertical adjustment). No. 1,368,929; Feb. 15; v. 283; p. 505.
- Hermann, Walter H., Lancaster, assignor to The Herman Tire Building Machine Company, Columbus, Ohio. Tire-building machine, (stationary). No. 1,399,118; Dec. 6.
- Hermanns, Alexander, Paterson, N. J. Tension device. No. 1,365,783; Jan. 18; v. 282; p. 419.
- Hermans, John, Vancouver, Wash. Extension-table. No. 1,388,708; Aug. 23; v. 289; p. 724.
- Hermanson, Aaron, Rockford, Ill. Easel. No. 1,398,516; Nov. 29.
- Hermes, Benjamin P., New York, N. Y. Heat-regulating system. No. 1,375,458; Apr. 19; v. 285; p. 505.
- Hermes, Mike W., Elger, Pa. Trolley-wire extension-splice. No. 1,393,530; Oct. 11.
- Hermistone, John C. S., Boston, Mass. Pipe-cutter. No. 1,376,936; May 3; v. 286; p. 106.
- Hernacki, John, Chicago, Ill. Rolling-screen. No. 1,371,892; Mar. 15; v. 284; p. 517.
- Hernandez, Francisco, Metcalf, Ariz. Oil-can. No. 1,373,244; Mar. 29; v. 284; p. 879.
- Herndon, Thomas H., Washington, D. C. Magnetic-wave therapeutic apparatus. No. 1,379,919; May 31; v. 286; p. 930.
- Herold, James L., St. Louis, Mo. Lifting-jack. No. 1,389,355; Aug. 30; v. 289; p. 908.
- Herold, Raymond C., Cleveland, Ohio. Rotary brush. No. 1,380,381; June 7; v. 286; p. 11.
- Heron, John H., Denver, Colo. Nasal-douche. No. 1,371,763; Mar. 15; v. 284; p. 492.
- Herr, Edward A., Philadelphia, Pa. Garment-presser. No. 1,382,726; June 28; v. 287; p. 621.
- Herr, Edwin M., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Sanding device. No. 1,382,910; June 28; v. 287; p. 656.
- Herr, Herbert T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Stoker control. No. 1,375,250; Apr. 19; v. 285; p. 465.
- Herr, Herbert T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Geared-power-developing unit. No. 1,384,834; July 19; v. 288; p. 457.
- Herr, Park A., Hillside, N. J., assignor to the Singer Manufacturing Company. Thread-controlling device for sewing-machines. No. 1,385,048; July 19; v. 288; p. 501.
- Herr, Park A., Hillside, N. J., assignor to The Singer Manufacturing Company. Loop-taker-actuating mechanism for sewing-machines. No. 1,396,040; Nov. 8.
- Herrbold, William J., Kalamazoo, Mich. Paper-stock-treating machine. No. 1,391,056; Sept. 20; v. 290; p. 455.
- Herrbold, William J., Kalamazoo, Mich. Portable hoist. No. 1,393,218; Oct. 11.
- Herrburger, Jean J. (See Ericotel, J. J. M., and Herrburger.)



*Alphabetical list of patentees—Continued.*

- Herreshoff, Alexander G., assignor to International Motor Company, New York, N. Y. Combined spring-pad and brake-operating-cam support. No. 1,369,028; Feb. 22; v. 283; p. 563.
- Herreshoff, Alexander G., and A. Lucand, assignor to International Motor Company, New York, N. Y. Wheel-brake. No. 1,396,958; Nov. 15.
- Herring, Albert F. (See Cormany, R. B., and Herring.)
- Herring, Jessie M., Groesbeck, Tex. Road-grader and drag. No. 1,381,709; June 14; v. 287; p. 315.
- Herrick, John A., Okmulgee, Okla. Inclinator. No. 1,385,946; July 5; v. 288; p. 142.
- Herring, Leslie N., Marshall, Minn. Tire inflater and tester of gage. No. 1,371,089; Mar. 8; v. 284; p. 299.
- Herrington, Claude M., St. Louis, Mo. Package. No. 1,390,784; Sept. 13; v. 290; p. 338.
- Herrington, Freeman, Lawrence, Kans. Composition of matter for filling, polishing, and finishing floors, woodwork, and other unpolished surfaces. No. 1,401,907; Dec. 27.
- Herrington, H. L. (See Leavitt, James Q., assignor.)
- Herrington, Herbert L. (See Leavitt, James Q., assignor.)
- Herrman, Charles, New York, N. Y. Lock. No. 1,364,757; Jan. 4; v. 282; p. 137.
- Herrman, Charles, New York, N. Y. Folding rule. No. 1,372,691; Mar. 29; v. 284; p. 768.
- Herrmann, Charles A., Bath, N. Y., assignor to American Multiplane Company, Inc. Flying-machine. No. 1,365,995; Jan. 18; v. 282; p. 461.
- Herrmann, Frederick G. (See Meves, C. W., and Herrmann.)
- Herron, James W., Oildale, Calif. Method of and apparatus for pumping petroleum-oil from wells. No. 1,376,877; May 3; v. 286; p. 95.
- Herron, Joseph A., Concord, Tenn. Disintegrator. No. 1,392,054; Sept. 27; v. 290; p. 731.
- Herron, Linton. (See Heller, S. D., and Herron.)
- Herron, Warren S., Centerville, Mich., and F. W. Thomas, Toledo, Ohio, assignors, to Dr. Denton Sleeping Garment Mills, Centerville, Mich. Garment. No. 1,378,863; May 24; v. 286; p. 657.
- Herschede Hall Clock Company, The. (See Herschede, Walter J., and Cohan, assignors.)
- Herschede, Walter J., and C. Cohan, assignors to The Herschede Hall Clock Company, Cincinnati, Ohio. Tension-adjuster for the springs of chime-hammers. No. 1,364,111; Jan. 4; v. 282; p. 12.
- Herschede, Walter J., and W. Eberhardt, Cincinnati, Ohio. Machine for grinding glass plates. No. 1,401,698; Dec. 27.
- Herschede, Walter J., and W. Eberhardt, Cincinnati, Ohio. Feed mechanism for grinding-machines. No. 1,401,699; Dec. 27.
- Herschel, Claude J., St. Joseph, Mo. Nail-remover. No. 1,377,071; May 3; v. 286; p. 132.
- Herschel, Clemens, Glen Ridge, N. J. Weir. No. 1,372,138; Mar. 22; v. 284; p. 621.
- Hersey, Arthur J., Minneapolis, Minn. Vehicle-fender. No. 1,382,911; June 28; v. 287; p. 656.
- Hersh, Lewis, Ironwood, Mich. Switch-stand. No. 1,395,184; Oct. 25.
- Hersh, William R., Dayton, Ohio. Apparatus for charging storage batteries. No. 1,389,871; Sept. 6; v. 290; p. 63.
- Hershey, D. E., et al. (See Krastin, August, assignor.)
- Hershey, Delmer E., Lorain, Ohio. Alarm for automobiles. No. 1,395,276; Nov. 1.
- Hershey, Harry E. (See Yanochowski, G. A., and Hershey.)
- Hershey, Harry E., Whitewater, Kans., assignor to Automatic Electric Company, Chicago, Ill. Automatic district telephone system. (Reissue.) No. 15,073; Mar. 29; v. 284; p. 908.
- Hershey, Madeline M., Los Angeles, Calif. Garment. No. 1,398,720; Nov. 29.
- Herskovitz, Max, Chicago, Ill. Electric-lighting fixture. No. 1,395,710; Nov. 1.
- Herskovitz, Max, Chicago, Ill. Electric-lighting fixture. No. 1,395,711; Nov. 1.
- Herskovitz, Max, assignor to Peerless Light Company, Chicago, Ill. Electric-candle socket. No. 1,397,212; Nov. 15.
- Hertz, Martha V. (See Hertz, Morris and M. V.)
- Hertz, Morris, and M. V., New York, N. Y. Lady's garment. No. 1,371,307; Mar. 15; v. 284; p. 403.
- Hertzberg, Harry. (See Wohl, M. J., and Hertzberg.)
- Hervieu, Gaston, and P. M. G. Maréchal, London, England. Portable shed, hangar, and other similar structure. No. 1,376,937; May 3; v. 286; p. 106.
- Herwick, Michael J., Woodlawn, Ala. Scaffold. No. 1,365,996; Jan. 18; v. 282; p. 461.
- Heryngfel, Serge, and F. Dubreucq, Charenton, France; said Dubreucq assignor to said Heryngfel. Machine for grinding tools and for similar purposes. No. 1,377,884; May 10; v. 286; p. 345.
- Herz, Alfred, Chicago, Ill. Means for regulating a system subject to large intermittent loads. No. 1,385,170; July 19; v. 288; p. 527.
- Herz, Alfred, assignor to one-half to E. O. Schweitzer, Chicago, Ill. Fused cut-out. No. 1,380,556; June 7; v. 287; p. 44.
- Herz, Gustave L., New York, N. Y. Spark-plug. No. 1,370,536; Mar. 8; v. 284; p. 193.
- Herzberg, Ernest A. (See Herzberg, George H. and E. A.)
- Herzberg, George H. and E. A., Seattle, Wash. Plaster-board-drying apparatus. No. 1,366,882; Jan. 25; v. 282; p. 680.
- Herzfeld, Alexander, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Nutrient-containing albumen and producing it. No. 1,391,683; Sept. 27; v. 290; p. 655.
- Herzmark, Nicolas, Paris, France. Starting device for explosion-engines. No. 1,366,180; Jan. 18; v. 282; p. 496.
- Herzog, John, Saginaw, Mich., assignor to Sonora Phonograph Corporation. Filing-cabinet. No. 1,392,055; Sept. 27; v. 290; p. 731.
- Herzog, John, Saginaw, Mich., assignor to Sonora Phonograph Company, Inc., New York, N. Y. Resonator. No. 1,397,733; Nov. 22.
- Herzog, Joseph L., New Rochelle, N. Y. Foldable link-button. No. 1,367,141; Feb. 1; v. 283; p. 51.
- Herzog, Louis, Beacon, N. Y. Embroidery-knife. No. 1,379,920; May 31; v. 286; p. 930.
- Herzog, Soma, New York, N. Y. Chair. No. 1,377,773; May 10; v. 286; p. 323.
- Hescheles, Isidore M., New York, N. Y. Partition structure for boxes. No. 1,379,563; May 24; v. 286; p. 789.
- Hesco Limited. (See Spencer, Harold E., assignor.)
- Hescock, Ethan N., Westfield, N. J., assignor to New Jersey Foundry & Machine Company. Conveyor-system control. No. 1,375,908; Apr. 26; v. 285; p. 622.
- Hescock, Ethan N., Westfield, N. J., assignor to New Jersey Foundry and Machine Company. Portable elevator. No. 1,381,552; June 14; v. 287; p. 285.
- Hescock, Ethan N., Westfield, N. J., and E. F. Smith, Woodhaven, N. Y., assignors to New Jersey Foundry & Machine Company. Portable elevator. No. 1,376,540; May 3; v. 286; p. 30.
- Hess-Bright Manufacturing Company, The. (See Dane, C. A., and Kraemer, assignors.)
- Hess-Bright Manufacturing Company. See Runge, R. F., and Jackson, assignors.)
- Hess-Bright Manufacturing Company, The. (See Runge, Robert F., assignor.)
- Hess, Edward B., Manhattan Beach, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting-machine. No. 1,390,708; Sept. 13; v. 290; p. 322.
- Hess, Eugene F., Pasadena, Calif. Sprinkler-head. No. 1,376,767; May 3; v. 286; p. 73.
- Hess, Frank, Freeport, Ill. Toy gun and projectile. No. 1,381,639; June 14; v. 287; p. 301.
- Hess, Harry, Sparks, Nev. Smoking-pipe. No. 1,391,474; Sept. 20; v. 290; p. 540.
- Hess, Henry, Philadelphia, Pa. Annular ball-bearing. No. 1,371,090; Mar. 8; v. 284; p. 299.
- Hess, Henry, Philadelphia, Pa. Soldering flux. No. 1,401,154; Dec. 27.
- Hess, John W., and F. S. Hodgins, Kitchener, Ontario, Canada, assignors to Cluett, Peabody & Co., Inc., Troy, N. Y. Collar. No. 1,396,204; Nov. 8.
- Hess, Meyer S., Baltimore, Md. Shoe. No. 1,379,564; May 24; v. 286; p. 789.
- Hess, Meyer S., Baltimore, Md. Making shoe-filler. No. 1,383,947; July 5; v. 288; p. 142.
- Hess, Meyer S., Baltimore, Md. Shoe. No. 1,389,356; Aug. 30; v. 289; p. 909.
- Hess, Simon E., Jamaica, N. Y. Thermostatic burglar-alarm system. No. 1,365,693; Jan. 18; v. 282; p. 401.
- Hess, Wendell, Jr., Troy, N. Y. Device for measuring graphic records. No. 1,376,768; May 3; v. 286; p. 73.
- Hess, William. (See Brown, J. W., and Hess.)
- Hesse, Emil C., Chicago, Ill. Velocipede. No. 1,375,459; Apr. 19; v. 285; p. 505.
- Hesse, Emil C., Chicago, Ill. Snap-hook. No. 1,390,129; Sept. 6; v. 290; p. 115.
- Hessel, Emil W., Granite City, Ill. Automobile-lock. No. 1,392,158; Sept. 27; v. 290; p. 752.
- Hessel, Philip, Norfolk, Va. Ice-machine. No. 1,395,411; Nov. 1.
- Hessel, Ralph. (See Iligan, C., and Hessel.)
- Hesselman, Bror O. W., and O. G. M. Mattsson, Stockholm, Sweden. Machine for producing hollow bricks. No. 1,386,404; Aug. 2; v. 289; p. 87.
- Hessing, Lawrence W., Maywood, assignor to one-half to J. M. Rhodes, Chicago, Ill. Machine for making packing. No. 1,388,428; Aug. 23; v. 289; p. 671.
- Hessler, John O. (See Richer, J. R., and Hessler.)
- Hessler, Kenneth W., and W. J. Barrett, Wyoming, Pa. Plug. No. 1,371,168; Mar. 8; v. 284; p. 313.
- Hesthave, Rasmus P., Hilleroed, near Copenhagen, Denmark, assignor to O. Ericsson, Copenhagen, Denmark. Apparatus for aiming firearms. No. 1,381,304; June 14; v. 287; p. 238.
- Hester, George C., Los Angeles, Calif., assignor to Brasco Manufacturing Company, Chicago, Ill. Store-front construction. No. 1,370,443; Mar. 1; v. 284; p. 130.
- Hetherington, Harry C., and J. M. Braham, Washington, D. C., assignors to The United States of America. Making ammonium phosphate. No. 1,369,763; Feb. 22; v. 283; p. 707.



*Alphabetical list of patentees—Continued.*

- Hetherington, John, and Sons. (See Horridge, James, assignor.)
- Hetteisater, Henry C., and E. K. Scott, Oak Park, assignor to F. K. Hoover, Chicago, Ill. Scale and transfer car. No. 1,393,017; Oct. 11.
- Hettinger, Julius E., Chicago, Ill. Non-skidding device. No. 1,369,808; Mar. 1; v. 284; p. 11.
- Hettinger, Julius E., Chicago, Ill. Heater for automobiles. No. 1,369,809; Mar. 1; v. 284; p. 11.
- Hettinger, Julius E., Chicago, Ill. Heel. No. 1,378,864; May 24; v. 286; p. 657.
- Hettinger, Julius E., Chicago, Ill. Stove. No. 1,384,064; July 12; v. 288; p. 216.
- Hetzl, Frederic V., Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill. Roller or like machine part. No. 1,372,509; Mar. 22; v. 284; p. 692.
- Hetzl, Frederic V., Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill. Roller or like machine element. No. 1,372,510; Mar. 22; v. 284; p. 692.
- Heumann, Henry F., Marissa, Ill. Extension-rail clamp. No. 1,370,537; Mar. 1; v. 284; p. 193.
- Heuser, Herman, Evanston, Ill. Vacuum-discharge apparatus. No. 1,388,565; Aug. 23; v. 289; p. 696.
- Heuser, Herman, Evanston, Ill. Preserving liquid foods. No. 1,390,709; Sept. 13; v. 290; p. 322.
- Heuser, Herman, Evanston, Ill. Preparing low-alcoholic beverages. No. 1,390,710; Sept. 13; v. 290; p. 323.
- Heuser, Herman, Evanston, Ill. Preparing low-alcoholic and non-alcoholic beverages. No. 1,401,700; Dec. 27.
- Heuser, Ralph V., Yonkers, N. Y. Chemical apparatus. No. 1,395,641; Nov. 1.
- Heuser, Raymond S., Evanston, Ill. Manufacturing cereal beverages. No. 1,390,711; Sept. 13; v. 290; p. 323.
- Hewes, James A., Melrose, Mass. Garter. No. 1,367,474; Feb. 1; v. 283; p. 118.
- Hewes, Laurence I. (See Purcell, C. H., and Hewes.)
- Hewes, William L., Springfield, Mass. Signaling device for automobiles. No. 1,391,830; Sept. 27; v. 290; p. 385.
- Hewitt, Robert J., Westfield, N. J. Directionally-controlled signal system. No. 1,380,145; May 31; v. 286; p. 973.
- Hewitt, Robert J., Westfield, N. J. Electric signaling system. No. 1,393,443; Oct. 11.
- Hewitt, Walter. (See Wackwitz, Henry E. J., assignor.)
- Hewitt, Edmund J. (See Stevens, Alfred, assignor.)
- Hewitt, Albertis. (See Owen, J. W., and Hewitt.)
- Hewitt, Daniel A., Thomasville, N. C. Torpedo-removing attachment for hand-cars and the like. No. 1,385,003; July 19; v. 288; p. 492.
- Hewitt, Horace B., et al. (See Gibbons, Arthur J., assignor.)
- Hewitt, Frank. (See Walker, George E. and S. H., and Hewitt.)
- Hewitt, Peter C., Ringwood Manor, N. J. Flying-machine. No. 1,378,112; May 17; v. 286; p. 440.
- Hewitt, Peter C., Ringwood Manor, N. J. Propeller. No. 1,378,113; May 17; v. 286; p. 441.
- Hewitt, Peter C., Ringwood Manor, N. J. Flying-machine. No. 1,378,114; May 17; v. 286; p. 441.
- Hewitt, Peter C., Ringwood Manor, N. J. Vacuum electric apparatus. No. 1,384,953; July 19; v. 288; p. 481.
- Hewitt, Peter C., Ringwood Manor, N. J. Relay. No. 1,393,018; Oct. 11.
- Hewitt, Peter C., Ringwood Manor, N. J. Constant-current distribution system. No. 1,393,019; Oct. 11.
- Hewitt, Peter C., Ringwood Manor, N. J. Apparatus for translating electrical variations. No. 1,393,369; Oct. 11.
- Hewitt, William J., Bloomfield, N. J. Window-screen. No. 1,398,017; Nov. 22.
- Hewlett, Palmer B., Hollister, Calif. Milking-machine. No. 1,386,498; Aug. 2; v. 289; p. 103.
- Hewlett, Palmer B., Hollister, Calif. Milking-machine. No. 1,393,781; Oct. 18.
- Hewlett, Palmer B., San Francisco, Calif. Milking-machine. No. 1,387,713; Aug. 16; v. 289; p. 471.
- Hey, Harry, Melbourne, Victoria, Australia. Recovery of lead and silver from sulfid ores and metallurgical products. No. 1,384,465; July 12; v. 288; p. 299.
- Heyden, Albert J., Chicago, Ill. Box. No. 1,364,277; Jan. 4; v. 282; p. 45.
- Heydon, Edward, Indianapolis, Ind. Trolley-wire hanger. No. 1,375,152; Apr. 19; v. 285; p. 447.
- Heydt, George H., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,367,967; Feb. 8; v. 283; p. 270.
- Heyerdahl, Peter M., Svolvær, Norway. Extraction and refining of oil. No. 1,368,148; Feb. 8; v. 283; p. 305.
- Heyl, Albert D., Philadelphia, Pa. Automatic lowering-machine. No. 1,386,253; Aug. 2; v. 289; p. 58.
- Heyl, Frederick W., assignor to The Upjohn Company, Kalamazoo, Mich. Packaging digitals. No. 1,388,429; Aug. 23; v. 289; p. 671.
- Heyl & Patterson. (See Covert, Edson C., assignor.)
- Heyl & Patterson. (See Robb, L. J., and Bickley, assignors.)
- Heyl, William J. (See Enard, Hans, assignor.)
- Heyler, Wilber C., Kent, Oreg. Grain-hopper attachment for harvesters. No. 1,376,435; May 3; v. 286; p. 11.
- Heylman, E. M., and A. D. Gallagher, assignors to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,386,870; Aug. 9; v. 289; p. 252.
- Heylman, Edward M., deceased; Citizen's Trust & Savings Bank, South Bend, Ind., administrator. Motor-clutch throw-out. No. 1,378,953; May 24; v. 286; p. 674.
- Heylman, Edward M., deceased; Citizen's Trust & Savings Bank, South Bend, Ind., administrator. Automatic clutch throw-out for tractors. No. 1,378,954; May 24; v. 286; p. 674.
- Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,386,866; Aug. 9; v. 289; p. 251.
- Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,386,868; Aug. 9; v. 289; p. 251.
- Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,386,869; Aug. 9; v. 289; p. 252.
- Heylman, Edward M., L. V. Kingsbury, and L. W. Stickley, assignors to Oliver Chilled Plow Works, South Bend, Ind. Power lift mechanism for plows. No. 1,386,867; Aug. 9; v. 289; p. 251.
- Heylman, Frederick C., Martinez, Calif. Stopcock. No. 1,387,714; Aug. 16; v. 289; p. 472.
- Heyman, Benjamin, assignor to Oxweld Acetylene Company, Newark, N. J. Nozzle for oxyacetylene and similar torches. No. 1,397,519; Nov. 22.
- Heyman, Isaac I., Irvington, N. J. Clothespin-container. No. 1,374,451; Apr. 12; v. 285; p. 249.
- Heyman, Isidor, Oakland, Calif. Valise-hinge. No. 1,382,083; June 21; v. 287; p. 445.
- Heyman, Knut W., Stockholm, Sweden. Ball-bearing. No. 1,386,570; Aug. 2; v. 289; p. 113.
- Heymann, Philip S. (See Heymann, Sidney, assignor.)
- Heymann, Sidney, New York, N. Y., assignor of one-half to P. S. Heymann, Pittsburgh, Pa. Automobile-jack. No. 1,386,499; Aug. 2; v. 289; p. 104.
- Heyroth, Albert H., Duluth, Minn. Automatic call system for hotels. No. 1,390,907; Sept. 13; v. 290; p. 363.
- Heys, John J., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,381,921; June 21; v. 287; p. 415.
- Heys, William E. (See Macpherson, R., and Heys.)
- Heyser, Fernando, Mexico, Mexico. Folding bed. No. 1,369,173; Feb. 22; v. 283; p. 591.
- Heywood-Wakefield Company. (See Lloyd, Marshall B., assignor.)
- Heywood-Wakefield Company, et al. (See Travers, Lewis C., assignor.)
- Hi Voltage Equipment Company. (See Kuhns, John H., assignor.)
- Hiatt, Cassius E. and W. J. Davis, London, England. Valve of wireless transmission systems. No. 1,394,090; Oct. 18.
- Hiatt, Elijah M., et al. (See Van Sant, William S., assignor.)
- Hibbard, L. Richard, assignor to L. J. Fairbanks and J. R. Kelly, Los Angeles, Calif. Sample-dispenser. No. 1,367,739; Feb. 8; v. 283; p. 227.
- Hibbard, Robert L., Pittsburgh, Pa. Milling-machine. No. 1,378,865; May 24; v. 286; p. 657.
- Hibbard, Robert L., Pittsburgh, Pa. Drop-pit jack. No. 1,387,544; Aug. 16; v. 289; p. 437.
- Hibbard, Thomas L. (See Dietrich, R. H., and Hibbard.)
- Hibbs, Cassel D., Fort Worth, Tex. Machine for cutting tire-casing treads and removing beads. No. 1,392,330; Oct. 4.
- Hibbs, Cassel D., Fort Worth, Tex. Mold for making fan-belts. No. 1,401,255; Dec. 27.
- Hibbs, Hattie L., Princeville, Ill. Skirt-marker. No. 1,373,614; Apr. 5; v. 285; p. 45.
- Hibler, Phillip. (See Jurkovich, Conrad, assignor.)
- Hibner, Phillip D., Seattle, Wash. Means for converting liquid fuel into a compressed combustible mixture. No. 1,388,430; Aug. 23; v. 289; p. 671.
- Hibner, Phillip D., Seattle, Wash. Valve. No. 1,394,900; Oct. 25.
- Hick, Harry J., assignor to The McCaskey Register Company, (Incorporated in 1914,) Alliance, Ohio. Filing appliance. No. 1,381,805; June 14; v. 287; p. 235.
- Hickey, Clutau S., Fayetteville, Ark. Cloth clamping and stretching means for ironing-boards. No. 1,368,724; Feb. 15; v. 283; p. 465.
- Hickey, James, Portland, Oreg. Hemstitching attachment for sewing-machines. No. 1,401,109; Dec. 20.
- Hickey, Thomas F., Shrewsbury, Mass. Leather-cutting machine. No. 1,390,612; Sept. 13; v. 290; p. 304.
- Hickman, Francis, assignor of one-half to Bound Brook Oil-less Bearing Company, Bound Brook, N. J. Tire. No. 1,364,758; Jan. 4; v. 282; p. 137.
- Hickman, George A., Pearl River, N. Y. Controlling means for spring-operated faucets. No. 1,387,715; Aug. 16; v. 289; p. 472.
- Hickman, James T., Jr., Springfield, Ind. Power-driven farming implement. No. 1,386,783; Aug. 9; v. 289; p. 234.
- Hickman, Reginald J. (See Singer, G. P., and Hickman.)
- Hickok, Emory, Engle, N. Mex. Door-hanger. No. 1,379,565; May 24; v. 286; p. 789.
- Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)



## Alphabetical list of patentees—Continued.

- Hickok, Theodore O., *et al.* (See Cooper, Leonard, assignor.)
- Hickok, W. O., Manufacturing Company. (See Broadmeyer, Albert, assignor.)
- Hickok, W. O., Manufacturing Company. (See Thompson, Robert J., assignor.)
- Hicks, Atwood J. (See Walp, C. F., Hicks, and Reedy.)
- Hicks, Charles E. and W. G., Mechanicsville, N. Y. Flying-machine. No. 1,398,781; Nov. 29.
- Hicks, Enoch O., St. Joseph, Mo. Distilling petroleum. No. 1,378,229; May 17; v. 286; p. 462.
- Hicks, Ernest C., Waynesville, Mo. Gear-shifter. No. 1,392,159; Sept. 27; v. 290; p. 752.
- Hicks, Frank J., assignor to The Hicks Tractor Company, Elyria, Ohio. Tractor. No. 1,367,517; Feb. 1; v. 283; p. 86.
- Hicks, Irl R., Centralla, Mo. Protecting-shell for spark-plugs. No. 1,388,709; Aug. 23; v. 289; p. 724.
- Hicks, Jeremiah, Philadelphia, Pa. Stairway-trap. No. 1,380,295; May 31; v. 286; p. 1001.
- Hicks, Rex P., Milwaukee, Wis. Tractor. No. 1,368,433; Feb. 15; v. 283; p. 408.
- Hicks, Rex P., assignor to Hicks Tractor Company, Milwaukee, Wis. Tractor-tread. No. 1,392,417; Oct. 4.
- Hicks, Thomas W., assignor to Scientific Farming Machinery Company, Minneapolis, Minn. Operating mechanism for farm machinery. No. 1,369,431; Feb. 22; v. 283; p. 641.
- Hicks Tractor Company, The. (See Hicks, Frank J., assignor.)
- Hicks Tractor Company. (See Hicks, Rex P., assignor.)
- Hicks, William G. (See Hicks, Charles E. and W. G.)
- Hickson, John M., and D. A. Young, Portland, Oreg. Paste bait. No. 1,384,320; July 12; v. 288; p. 269.
- Hidden, George A., Coronado, Calif. Combination check and cut-off valve. No. 1,383,207; June 28; v. 287; p. 713.
- Hiddleston, C. I., Sr. (See Shapneck, Matthew C., assignor.)
- Hidy, Alfred, Jeffersonville, assignor of one-half to J. H. Hidy, Urbana, Ohio. Hog box. No. 1,385,871; July 26; v. 288; p. 745.
- Hidy, John H. (See Hidy, Alfred, assignor.)
- Heatzman, Arthur H., Baltimore, Md. Rind-removing meat-slicing machine. No. 1,376,810; May 3; v. 286; p. 82.
- Hiebert, Jacob P., assignor to Hillsboro Shocker and Machine Co., Hillsboro, Kans. Grain-sheaf shocker. No. 1,373,727; Apr. 5; v. 285; p. 67.
- Hielscher, John F., Seattle, Wash. Clock-controlled electric signal system. No. 1,396,370; Nov. 8.
- Hiers, Charles C. (See Mintz, N. and Hiers.)
- Higbee, Glenn A., Detroit, Mich. Fishing-reel. No. 1,398,721; Nov. 29.
- Higbee, Le Grand, Cicero, Ill. Toothbrush-head. No. 1,396,630; Nov. 8.
- Higdon, Andy, Nevada, Iowa. Drag conveyer and elevator. No. 1,388,860; Aug. 30; v. 289; p. 809.
- Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Windshield. No. 1,371,483; Mar. 15; v. 284; p. 439.
- Higgin Manufacturing Company, The. (See Higgin, Henry, assignor.)
- Higinbotham, Samuel H., Alhambra, Calif. Rupture appliance. No. 1,396,840; Nov. 15.
- Higgins, Albert E. (See Prosser, Walter E., assignor.)
- Higgins, Henry B., Jr., Denver, Colo. Attachment for internal-combustion engines. No. 1,376,276; Apr. 26; v. 285; p. 693.
- Higgins, Henry B., Jr., Denver, Colo. Attachment for internal-combustion engines. No. 1,376,277; Apr. 26; v. 285; p. 693.
- Higgins, Joseph I., New York, N. Y. Folding bed. No. 1,380,958; June 7; v. 287; p. 121.
- Higgins, Joseph W., Bordentown, N. J. Portable electric lamp. No. 1,400,819; Dec. 20.
- Higgins, William J., *et al.* (See Torossian, Gregory, assignor.)
- Higgins, William L. (See Turner, T., Kessler, and Higgins.)
- Higgs, Percy J., New York, N. Y. Headlight. No. 1,400,820; Dec. 20.
- High, Ralph B. (See Crosby, P. A., Matthews, and High.)
- Higham, Harold. (See Bayles, E. A., and Higham.)
- Higham, John, assignor to Combination Folding Camp Stove Company, Los Angeles, Calif. Camp-stove. No. 1,364,371; Jan. 4; v. 282; p. 63.
- Highfield, Charles F., Saltcoats, Saskatchewan, Canada. Traction device for automobile-wheels. No. 1,369,174; Feb. 22; v. 283; p. 591.
- Highfield, George A., Scranton, Pa. Smoking-pipe. No. 1,397,632; Nov. 22.
- Highfield, John S., London, England. Mining of clay and the like. No. 1,366,456; Jan. 25; v. 282; p. 595.
- Highfield, William E. (See Calverley, J. E., and Highfield.)
- Highway Trailer Company. (See Clement, Charles G., assignor.)
- Higinbotham, Arthur O., assignor to C. B. Foster and Company, Worcester, Mass. Fluid-pressure clutch. No. 1,368,434; Feb. 15; v. 283; p. 408.
- Higinbotham, Arthur O., assignor to C. B. Foster and Company, Worcester, Mass. Driving and steering mechanism for tractors. No. 1,368,435; Feb. 15; v. 283; p. 409.
- Higinbotham, Arthur O., assignor to C. B. Foster and Company, Worcester, Mass. Driving and steering mechanism. No. 1,368,436; Feb. 15; v. 283; p. 409.
- Higley, Ellis E., Salmon, Idaho. Hopple. No. 1,388,465; Aug. 23; v. 289; p. 678.
- Higley, Frank R., Cleveland, Ohio. Liquid-fuel-feed regulator. No. 1,371,027; Mar. 8; v. 284; p. 287.
- Higley, Herman W., assignor of one-half to C. H. Fowler, New York, N. Y. Safety-razor-blade holder. No. 1,383,627; July 5; v. 288; p. 77.
- Higson, Albert J., Jersey City, N. J., assignor to The J. G. Wilson Corporation. Roller-bearing. No. 1,381,191; June 14; v. 287; p. 218.
- Higuchi, Monnosuke, assignor of one-half to T. Matsuoka, College Point, N. Y. Racing game. No. 1,392,764; Oct. 4.
- Hilborn, Bert E., Spokane, Wash. Clamp. No. 1,389,587; Sept. 6; v. 290; p. 5.
- Hilberg, Michael J., Norwood, Ohio. Automobile cabinet attachment. No. 1,376,693; May 3; v. 286; p. 59.
- Hilbig, Arthur M., Milwaukee, Wis. Repeating device for sound-reproducing machines. No. 1,371,764; Mar. 15; v. 284; p. 493.
- Hildebrand, Reinhard, Webster Groves, Mo. Cylinder-head for internal-combustion engines. No. 1,376,620; May 3; v. 286; p. 46.
- Hildebrand, Reinhard, Webster Groves, Mo. Cylinder-head for internal-combustion engines. No. 1,376,621; May 3; v. 286; p. 46.
- Hildebrand, Reinhard, Webster Groves, Mo. Bearing. No. 1,385,683; July 26; v. 288; p. 707.
- Hildebrand, Reinhard, Webster Groves, assignor to Fulton Iron Works Company, St. Louis, Mo. Controlling mechanism for internal-combustion engines. No. 1,376,619; May 3; v. 286; p. 45.
- Hildebrand, William R., Chicago, Ill. Radiator. No. 1,385,450; July 26; v. 288; p. 659.
- Hildebrandt, Frank P., Saugerties, N. Y. Folding-machine. No. 1,384,563; July 12; v. 288; p. 320.
- Hildreth, Alonzo L., and A. M. McLendon, Savannah, Ga. Cleaning-machine. No. 1,381,553; June 14; v. 287; p. 285.
- Hile, Thomas J., assignor of one-half to H. G. Bell, Bainbridge, Ga. Cabinet. No. 1,386,500; Aug. 2; v. 289; p. 104.
- Hiles, Edward L., *et al.* (See Fuller, Clarence C., assignor.)
- Hilger, Adam, Limited. (See Twyman, Frank, assignor.)
- Hilgers, John, Binghamton, N. Y. Nose-shaper. No. 1,378,455; May 17; v. 286; p. 505.
- Hilgers, John, Binghamton, N. Y. Limb-straightening device. No. 1,384,257; July 12; v. 288; p. 256.
- Hilker, Frank C., Fort Wayne, Ind. Pneumatic cushion. No. 1,382,831; June 28; v. 287; p. 641.
- Hill, Adam. (See Wareing, J., and Hill.)
- Hill, Amos D., Lansing, Mich. License-tag holder and means to illuminate same. No. 1,390,291; Sept. 13; v. 290; p. 239.
- Hill, Charles A. (See Helby, C. G., Hill, and Lindquist.)
- Hill, Charles H., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,374,656; Apr. 12; v. 285; p. 289.
- Hill, Charles K., assignor to The H. C. Tack Company, Cleveland, Ohio. Tack or nail. No. 1,395,960; Nov. 1.
- Hill, Clarence A., Columbus, assignor to The Champion Kerosene-Burner Company, Kenton, Ohio. Kerosene-burner. No. 1,377,072; May 3; v. 286; p. 132.
- Hill, Clarence A., assignor to The Champion Kerosene-Burner Company, Lima, Ohio. Non-flooding attachment for kerosene-gas-generating apparatus. No. 1,397,049; Nov. 15.
- Hill, Ebenezer, Norwalk, Conn. Piston for oxygen-compressors. No. 1,386,333; Aug. 2; v. 289; p. 74.
- Hill, Edward W., Chicago, Ill. Overlapping-flat-card index. No. 1,373,070; Mar. 29; v. 284; p. 843.
- Hill, Edward W., assignor to A. B. Dick Company, Chicago, Ill. Stenciling material. No. 1,393,444; Oct. 11.
- Hill, Elert A., Los Angeles, Calif. Lock. No. 1,368,566; Feb. 15; v. 283; p. 433.
- Hill, Elmer L., Rapelle, Mont. Skid-chain tightener. No. 1,390,613; Sept. 13; v. 290; p. 304.
- Hill, Ernest R., East Orange, N. J., and J. W. Marsh, New York, N. Y. Truck. No. 1,388,816; Aug. 23; v. 289; p. 746.
- Hill, Ferry F., assignor to M. W. Hill, Baltimore, Md. Brush and mop holder. No. 1,391,111; Sept. 20; v. 290; p. 466.
- Hill, Frank J., Sulphur, La. Method of and apparatus for treating and handling sulfur. No. 1,397,099; Nov. 15.
- Hill, G., Clifford and F. Cooper, Seattle, Wash. Machine for compressing valve-springs. No. 1,386,334; Aug. 2; v. 289; p. 74.
- Hill, George A. (See Beck, Sigmund F., assignor.)
- Hill, George C. (See Cooper, F., and Hill.)
- Hill, George C., and F. Cooper, Seattle, Wash. Machine for grinding valves. No. 1,374,504; Apr. 12; v. 285; p. 259.



*Alphabetical list of patentees—Continued.*

- Hill, George H., deceased, Schenectady, N. Y., by General Electric Company, assignee. Regenerative braking. (Reissue.) No. 15,094; Apr. 26; v. 285; p. 715.
- Hill, George R., Jr., Philadelphia Pa. Detachable handle for saucapans and other cooking utensils. No. 1,364,552; Jan. 4; v. 282; p. 98.
- Hill, George S., Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,389,000; Aug. 30; v. 289; p. 837.
- Hill, George S., Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,390,786; Sept. 13; v. 290; p. 338.
- Hill, George S., Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Buttonhole-sewing machine. No. 1,396,111; Nov. 8.
- Hill, George W., New York, N. Y., assignor to American Tobacco Company. Cigarette-package. No. 1,396,749; Nov. 15.
- Hill, Guy. (See Steinberger, L., and Hill.) (Reissue.)
- Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Optical lense. (Reissue.) No. 15,064; Mar. 15; v. 284; p. 538.
- Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Bifocal. No. 1,400,061; Dec. 13.
- Hill, Henry C., Cincinnati, Ohio. Automobile-speed controller. No. 1,400,062; Dec. 13.
- Hill, Hugh G., assignor, by mesne assignments, to Whitaker-Glessner Company, Wheeling, W. Va. Can-seaming machine. No. 1,398,018; Nov. 22.
- Hill, James D., Scottsdale, Pa. Aircraft-propeller. No. 1,401,537; Dec. 27.
- Hill, James H., Chicago, Ill. Filling-machine. No. 1,371,370; Mar. 15; v. 284; p. 416.
- Hill, John F. (See Clark, H. A., Hill, and McGregor.)
- Hill, Joseph A., Sheffield, England. Fire-bar for furnaces. No. 1,379,261; May 24; v. 286; p. 731.
- Hill, Joseph S., Washington, D. C. Feed-water-heating system. No. 1,369,759; Feb. 22; v. 283; p. 706.
- Hill, Leslie A., Dallas, Tex. Arrangement and construction of self-service store-fixtures. No. 1,392,418; Oct. 4.
- Hill, Lewis D. (See Hill, Myron F. and L. D.)
- Hill, Louis A., Washington, D. C. Pneumatic tire. No. 1,399,556; Dec. 6.
- Hill, Malcolm W. (See Hill, Ferry F., assignor.)
- Hill, Myron F., New York, N. Y., assignor to Cast Steel Ship Corporation. Ship. No. 1,376,878; May 3; v. 286; p. 95.
- Hill, Myron F., New Rochelle, and L. D. Hill, Mount Vernon, assignor of two-thirds to E. H. Lysie, New York, N. Y. Machine for projecting continuous moving pictures. No. 1,367,475; Feb. 1; v. 283; p. 118.
- Hill, Nels, St. Paul, Minn. Snowplow. No. 1,401,256; Dec. 27.
- Hill, Oscar, Crawfordsville, Ind. Speed-changing mechanism. No. 1,373,071; Mar. 29; v. 284; p. 844.
- Hill, Owen E., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling-generator. No. 1,396,750; Nov. 15.
- Hill, Poindexter, Bethesda, Ark. Boat. No. 1,380,296; May 31; v. 286; p. 1001.
- Hill Pump Valve Company, The. (See Umbdenstock, Walter, assignor.)
- Hill, Raymond T., Detroit, Mich. Nut-lock. No. 1,391,186; Sept. 20; v. 290; p. 481.
- Hill, Richard D., Fort Worth, assignor to P. G. Krohn, Electra, Tex. Pipe-tongs. No. 1,382,832; June 28; v. 287; p. 641.
- Hill, Robert R., and R. G. Law, Manhasset, N. Y. Piston-packing. No. 1,381,993; June 21; v. 287; p. 428.
- Hill, Roy L., and A. J. Strane, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del. Explosive compound. (Reissue.) No. 15,155; July 19; v. 288; p. 563.
- Hill, Samuel F., and J. W. Cochran, Indianapolis, Ind. Ventilating-sash fastener. No. 1,396,205; Nov. 8.
- Hill, Theodore M., Shubert, Nebr. Nut-lock. No. 1,394,012; Oct. 18.
- Hill, Walter G., Chicago, Ill. Sharpening device for lawn mowers. No. 1,396,430; Nov. 8.
- Hill, William T., Baltimore, Md. Trolley-wheel attachment. No. 1,380,959; June 7; v. 287; p. 122.
- Hillard, Frederic W., Tottenville, N. Y., assignor of one-half to M. R. Hillard, Middlebury, Conn. Typewriting machine. (Reissue.) No. 15,209; Oct. 18.
- Hillard, Mary R. (See Hillard, Frederic W., assignor.) (Reissue.)
- Hilliard, Lena C., Boston, Mass. Measuring apparatus for corsets. No. 1,397,865; Nov. 22.
- Hillcoat, Harry A., et al. (See Lowe, Clarence A., assignor.)
- Hillier, Adolph H., et al. (See Ghes, Paul B., assignor.)
- Hillier, Joseph L., Mattapoisett, Mass. Centrifugal machine. No. 1,367,046; Feb. 1; v. 283; p. 32.
- Hillier, Joseph L., Mattapoisett, Mass. Cutter-tip. No. 1,380,146; May 31; v. 286; p. 973.
- Hiller, Nicolai H., Carbondale, Pa. Condenser. No. 1,358,827; July 26; v. 288; p. 736.
- Hiller, Nicolai H., Carbondale, Pa. Piston-rod-lubricating system. No. 1,371,308; Mar. 15; v. 284; p. 404.
- Hiller, Stanley, San Francisco, Calif. Separating fruit-pits and their kernels. No. 1,374,657; Apr. 12; v. 285; p. 289.
- Hillhouse, Charles B., New York, N. Y. Process for the manufacture of steel, the treating of iron and the production of Portland cement. No. 1,366,383; Jan. 25; v. 282; p. 579.
- Hilliard, Frank H., assignor of one-half to H. L. Smith, Fitzgerald, Ga. Tool. No. 1,377,348; May 10; v. 286; p. 842.
- Hillman, Albert G., assignor to Cinechrome Instruments, Limited, London, England. Intermittent feed mechanism. No. 1,400,877; Dec. 20.
- Hillman, Benjamin F., et al. (See Mullins, John C., Jr., assignor.)
- Hillman, Ernest C., Los Angeles, Calif. Rain and sun shield. No. 1,374,919; Apr. 19; v. 285; p. 401.
- Hillman, Evan B., Los Angeles, Calif. Concrete form for reinforced hollow walls. No. 1,364,372; Jan. 4; v. 282; p. 63.
- Hillman, Herbert H., assignor to Challenge Refrigerator Company, Grand Haven, Mich. Refrigerator. No. 1,369,338; Feb. 22; v. 283; p. 623.
- Hillman, Swan. (See Alden, R. A., and Hillman.)
- Hills, Burton U., Chicago, Ill. Automatic feeding device for graphite or the like. No. 1,384,892; July 19; v. 288; p. 469.
- Hills, Frank. (See Cawley, J., and Hills.)
- Hills, Frank. (See Tierney, J. W., and Hills.)
- Hills, Harry B., Tompkinsville, assignor to Steward Davit & Equipment Corporation, New York, N. Y. Hoisting mechanism. No. 1,367,142; Feb. 1; v. 283; p. 52.
- Hills, Harry B., Tompkinsville, assignor to Steward Davit & Equipment Corporation, New York, N. Y. Ship's davit. No. 1,394,091; Oct. 18.
- Hills, Henry A., Grand Rapids, Mich. Distilling and purifying apparatus for volatile liquids. No. 1,372,880; Mar. 29; v. 284; p. 806.
- Hills, Henry A., Grand Rapids, Mich. Filter for gasoline-tanks. No. 1,394,011; Oct. 18.
- Hills, Leon B., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Mold for storage-battery grids. No. 1,387,926; Aug. 16; v. 289; p. 514.
- Hills, Sidney C., assignor to The Turner & Seymour Manufacturing Company, Torrington, Conn. Curtain-fixture. No. 1,376,541; May 3; v. 286; p. 30.
- Hills, Sidney C., assignor to The Turner & Seymour Manufacturing Company, Torrington, Conn. Bracket for curtain-fixtures. No. 1,376,542; May 3; v. 286; p. 31.
- Hills, Sidney C., assignor to The Turner & Seymour Manufacturing Company, Torrington, Conn. Egg-beater. No. 1,386,405; Aug. 2; v. 289; p. 87.
- Hillsboro Shocker and Machine Co. (See Hiebert, Jacob P., assignor.)
- Hillsinger, William C. (See Ullmann, W. F., and Hillsinger.)
- Hillyer, Ernest E., Port Richmond, N. Y. Headlight. No. 1,386,059; Aug. 2; v. 289; p. 20.
- Hillyard, Newton S., St. Joseph, Mo. Toilet-paper and paper-towel dispenser. No. 1,400,677; Dec. 20.
- Hi-Lo-Jack Company. (See Lanier, Amos F., assignor.)
- Hilpert, Meier G., Harrisburg, assignor to Bethlehem Steel Bridge Corporation, Bethlehem, Pa. Truck construction for turntables. No. 1,386,060; Aug. 2; v. 289; p. 20.
- Hilpert, Meier G., Harrisburg, assignor to Bethlehem Steel Bridge Corporation, Bethlehem, Pa. Transferable driving mechanism. No. 1,401,334; Dec. 27.
- Hilsabeck, Albert R. (See Rutten, Frank M., assignor.)
- Hilsabeck, Terry M., Lusk, Wyo. Nut-lock. No. 1,364,553; Jan. 4; v. 282; p. 98.
- Hilsinger, Adin W. (See Brady, H., and Hilsinger.)
- Hilton, Einar, Vancouver, British Columbia, Canada. Engine. No. 1,377,581; May 10; v. 286; p. 285.
- Hilton, Einar, and A. Girodat, Gull Lake, Saskatchewan, Canada. Piston connection. No. 1,386,254; Aug. 2; v. 289; p. 59.
- Hilton, Roland C., assignor to Reece-Hilton, Inc., Troy, N. Y. Tire-pump. No. 1,375,843; Apr. 26; v. 285; p. 610.
- Hilton, Roland C., assignor to Reece-Hilton, Inc., Troy, N. Y. Pump. No. 1,389,001; Aug. 30; v. 289; p. 838.
- Hilts, Harold E., Philadelphia, Pa. Finishing-machine for roads and the like. No. 1,392,161; Sept. 27; v. 290; p. 752.
- Hiltz, George S., assignor to Stock Quotation Telegraph Company, New York, N. Y. Manufacture of type-wheels. No. 1,371,680; Mar. 15; v. 284; p. 477.
- Hime, Clint T., Hides, Tex. Puzzle. No. 1,388,710; Aug. 23; v. 289; p. 724.
- Himes, Charles C., Indianapolis, Ind. Radiator-cap. No. 1,379,626; May 31; v. 286; p. 875.
- Himes Cohen Tractor Co. (See Himes, Walter H., assignor.)
- Himes, Isaiah, Marshalltown, Iowa. Opera-chair. No. 1,382,084; June 21; v. 287; p. 445.
- Himes, Leslie R. (See Himes, Walter P., assignor.)
- Himes, Walter H., assignor to Himes Cohen Tractor Co., Grove City, Pa. Variable-speed gearing. No. 1,384,458; July 19; v. 288; p. 441.



*Alphabetical list of patentees—Continued.*

- Himes, Walter P., assignor of one-half to L. R. Himes, New Bethlehem, Pa. Showcase. No. 1,376,203; Apr. 26; v. 285; p. 679.
- Himmel, Robert C., Topeka, Ill. Rotary cleaner-carrier. No. 1,390,438; Sept. 13; v. 290; p. 267.
- Himmel, Solomon. (See Hormes, William T., assignor.)
- Himmel, Solomon. (See Tresnak, Stephan, assignor.)
- Himmelright, Raleigh J., assignor to American Arch Company, New York, N. Y. Locomotive fire-box. No. 1,369,105; Feb. 22; v. 283; p. 578.
- Himmelsbach, John A., Saginaw, Mich. Detachable diaphragm for gas-meters. No. 1,398,722; Nov. 29.
- Hinchcliff, Henry C., Brooklyn, N. Y. Rivet manufacture. No. 1,388,566; Aug. 23; v. 289; p. 697.
- Hinchey, Harry J., Atlanta, Ga., assignor to Wright-Austin Company, Detroit, Mich. Steam-trap. No. 1,396,206; Nov. 8.
- Hinchley, John W. (See Simon, L. J., and Hinchley.)
- Hinchman, George N., Webster Groves, assignor to Alvey Manufacturing Company, St. Louis, Mo. Feeding mechanism for conveyers. No. 1,384,193; July 12; v. 288; p. 243.
- Hinckley, Augustus C., Pocatello, Idaho. Signal-lantern for locomotives. No. 1,384,387; July 12; v. 288; p. 283.
- Hinckley, Augustus C., Pocatello, Idaho. Means for straightening cars and their loads. No. 1,386,175; Aug. 2; v. 289; p. 42.
- Hinckley, Frank C., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Stop mechanism for talking-machines. No. 1,390,712; Sept. 13; v. 290; p. 323.
- Hinckley, Frank C., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Stop mechanism for talking-machines. No. 1,390,713; Sept. 13; v. 290; p. 323.
- Hinckley, Percy P., Meriden, Conn., assignor to Foster, Merriam & Company, Piston-ring. No. 1,375,095; Apr. 19; v. 285; p. 436.
- Hind & Harrison Plush Co., The. (See Copeland, Percival W., assignor.)
- Hind, John S., Springfield, Mo. Heat-distributing device. No. 1,368,337; Feb. 15; v. 283; p. 389.
- Hindahl, David, assignor to Rodger Ballast Car Company, Chicago, Ill. Dump-car. No. 1,374,567; Apr. 12; v. 285; p. 271.
- Hindahl, David, assignor to Rodger Ballast Car Company, Chicago, Ill. Convertible ballast-car. No. 1,374,568; Apr. 12; v. 285; p. 271.
- Hindahl, David, assignor to National Dump Car Co., Chicago, Ill. General-service car. No. 1,382,191; June 21; v. 287; p. 464.
- Hindahl, David, assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism. No. 1,386,406; Aug. 2; v. 289; p. 87.
- Hindahl, David, assignor to National Dump Car Company, Chicago, Ill. Door-shaft lever. No. 1,394,621; Oct. 25.
- Hindahl, David, assignor to Rodger Ballast Car Company, Chicago, Ill. Dump car. No. 1,398,517; Nov. 29.
- Hindle, Alfred H., Birmingham, S. W. Savage, A. E. Dabbs, and A. Liddle, Manchester, assignors of one-half to J. G. W. Gruban, London, England. Roller, ball, and other bearing. No. 1,386,255; Aug. 2; v. 289; p. 59.
- Hindmarsh, Percy J., Lincoln, Nebr. Wire-fence tool. No. 1,367,516; Feb. 1; v. 283; p. 126.
- Hinds, Francis E., Lansing, Kans. Saw-gage. No. 1,393,126; Oct. 11.
- Hinds, Herbert H. (See Brown, C. R., and Hinds.)
- Hine, Arthur. (See Hales, W. W., and Hine.)
- Hine, Charles W. C. (See Spencer, A. G. and F., and Hine.)
- Hineline, Edson S., Apponaug, assignor to Bodell & Co., Providence, R. I. Stop-motion for knitting-machines. No. 1,375,218; Apr. 19; v. 285; p. 459.
- Hineline, Edson S., Apponaug, assignor to Hineline Engineering Company, Providence, R. I. Stop-motion for knitting-machines. No. 1,398,694; Nov. 29.
- Hineline Engineering Company. (See Hineline, Edson S., assignor.)
- Hines, Charles L., Council Bluffs, Iowa. Washboard. No. 1,377,885; May 10; v. 286; p. 345.
- Hines, Edwin G., Drums, and C. S. Myers, Hazleton, Pa.; said Myers assignor to Hines. Towing device. No. 1,384,835; July 19; v. 288; p. 457.
- Hines, Edwin G., Drums, and C. S. Myers, Hazleton, Pa.; said Myers assignor to said Hines. Draft device. No. 1,399,300; Dec. 6.
- Hines, Ellen V. (See Hines, Warren H., assignor.)
- Hines, Eugene E., Lawrenceville, Ill. Vote-registering machine. No. 1,380,557; June 7; v. 287; p. 44.
- Hines, Frank W., Washington, D. C. Lighting arrangement for automobiles. No. 1,401,602; Dec. 27.
- Hines, Gail H., Beaverton, Mich. Motor-power stump-puller. No. 1,369,657; Feb. 22; v. 283; p. 685.
- Hines, Harry E., Detroit, Mich. Rifle. No. 1,376,694; May 3; v. 286; p. 59.
- Hines, Joseph H., Auburn, Calif. Rock-drill-sharpening device. No. 1,397,960; Nov. 22.
- Hines, Robert E., Brooklyn, assignor of one-half to A. Tweel, New York, N. Y. Clothesline-support. No. 1,387,266; Aug. 9; v. 289; p. 329.
- Hines, Robert E., W. J. Dellert, and J. A. Staehle, New York, N. Y. Combined vehicle signal and searchlight. No. 1,380,905; June 7; v. 287; p. 111.
- Hines, Thomas J., Detroit, Mich. Drill-chuck. No. 1,372,289; Mar. 22; v. 284; p. 650.
- Hines, Warren H., assignor of forty-nine one-hundredths to E. V. Hines, Flint, Mich. Vehicle-wheel. No. 1,398,265; Nov. 29.
- Hingston, George N., Philadelphia, Pa. Opening means for boxes. No. 1,381,554; June 14; v. 287; p. 285.
- Hinker, Benjamin F., Taft, Calif. Locked-carriage pipe-spider. No. 1,375,964; Apr. 26; v. 285; p. 633.
- Hinkebein, E. H. (See Franck, Val F., assignor.)
- Hinman, Charles W., Winchester, Mass. Gas-meter. No. 1,376,543; May 3; v. 286; p. 31.
- Hinman, George L. (See Greist, H. M., and Hinman.)
- Hinneken, Florent, Paterson, N. J. Bearing. No. 1,379,818; May 31; v. 286; p. 911.
- Hinsdale, Winfield E., Trenton, N. J. Water-closet. No. 1,391,476; Sept. 20; v. 290; p. 540.
- Hinsdale, Winfield E., and W. H. Hall, Trenton, N. J. Water-closet. No. 1,391,477; Sept. 20; v. 290; p. 541.
- Hinsdale, Winfield E., assignor to Trenton Potteries Company, Trenton, N. J. Water-closet. No. 1,391,475; Sept. 20; v. 290; p. 540.
- Hinsdale, Winfield E., and M. W. Lansing, assignors to Trenton Potteries Company, Trenton, N. J. Sanitary fixture. No. 1,394,302; Oct. 18.
- Hinsman, Carl B., assignor to Howe Scale Company, Rutland, Vt. Cumulative dial. No. 1,371,371; Mar. 15; v. 284; p. 417.
- Hinson, John K., assignor of one-half to D. R. McCallum, Sumter, S. C. Chair-rocker. No. 1,367,390; Feb. 1; v. 283; p. 101.
- Hinton, Thomas, assignor to H. Merton, Reading, England. Tool-holder. No. 1,400,063; Dec. 13.
- Hinton, Vachel O., Kansas City, Kans. Horse-shading attachment for vehicles. No. 1,378,031; May 17; v. 286; p. 425.
- Hinton, Gladstone M. (See McClellan, Walter N., assignor.)
- Hintz, A. W., and F. W. Pedersen, assignors to A. W. Hintz, Edward Hintz, and Charles Hintz, Milwaukee, Wis. Propelling attachment for toy vehicles. No. 1,365,914; Jan. 18; v. 282; p. 445.
- Hintz, Andrew. (See Freitag, H. R., C., Jr., and A. Hintz.)
- Hintz, Charles, et al. (See Hintz, A. W., and Pedersen, assignors.)
- Hintz, Christian, Jr. (See Freitag, H. R., C., Jr., and A. Hintz.)
- Hintz, Edward, et al. (See Hintz, A. W., and Pedersen, assignors.)
- Hinz, Herman J., San Francisco, Calif. Sand-dispensing device for motor-vehicles. No. 1,401,073; Dec. 20.
- Hinz, Julius C., deceased, Detroit, Mich.; W. Hinz, administrator. Drill-grinder. No. 1,388,039; Aug. 16; v. 289; p. 535.
- Hinz, William, administrator. (See Hinz, Julius C.)
- Hinze, Charles, Evanston, Ill. Hand-guard. No. 1,369,810; Mar. 1; v. 284; p. 11.
- Hinzman, Angela C., Chicago, Ill. Book-holder. No. 1,391,112; Sept. 20; v. 290; p. 467.
- Hipkins, Stephen H., Auburn, Wash. Sanitary cow-tail holder. No. 1,389,507; Aug. 30; v. 289; p. 938.
- Hipple, Edward H., Honolulu, Hawaii. Cane-planter. No. 1,386,407; Aug. 2; v. 289; p. 87.
- Hipple, Oliver P., Wilkins township, Allegheny county, Pa., assignor to Westinghouse Electric & Manufacturing Company, Trolley-shoe. No. 1,370,018; Mar. 1; v. 284; p. 50.
- Hipple, Oliver P., Wilkins township, Allegheny county, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,376,436; May 3; v. 286; p. 11.
- Hipple, Oliver P., Wilkins township, Allegheny county, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,392,160; Sept. 27; v. 290; p. 752.
- Hipwell, Harry H., Pittsburgh, Pa. Insulator. No. 1,382,912; June 28; v. 289; p. 656.
- Hipwell, Harry H., Pittsburgh, Pa. Flashlight-battery. No. 1,398,518; Nov. 29.
- Hird, Harold P., Dewsbury, England. Still. No. 1,368,149; Feb. 8; v. 283; p. 305.
- Hirk, William W., Zion City, Ill., assignor of one-half to R. Feuerman. Sewing-machine attachment. No. 1,392,872; Oct. 4.
- Hirsch, Abe. (See Hoerger, William, assignor.)
- Hirsch, Alexander. (See Gerberg, M., Hirsch, and Morgan.)
- Hirsch, Benjamin, Leominster, Mass. Pouch. No. 1,370,966; Mar. 8; v. 284; p. 275.
- Hirsch, Edwin B., assignor to Displawel Case Co., Inc., New York, N. Y. Display-case construction. No. 1,369,811; Mar. 1; v. 284; p. 11.
- Hirsch, Feodor C., Bridgeport, Conn. Drier for can-covers. No. 1,396,431; Nov. 8.
- Hirsch, Henry, assignor to L. B. Koch, New York, N. Y. Shutter control for cinematographic targets. No. 1,392,941; Oct. 11.



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- Hirsch, Julius, Brooklyn, N. Y. Box for holding glass spoons and the like. No. 1,367,600; Feb. 8; v. 283; p. 200.
- Hirschenfeld, Joseph, Oak Park, Ill. Horseshoe. No. 1,375,096; Apr. 19; v. 285; p. 436.
- Hirschhorn, Benjamin, assignor to National Urn Bag Co., New York, N. Y. Tea-cartridge. No. 1,395,642; Nov. 1.
- Hirschkind, Wilhelm, Cartago, assignor to California Alkali Company, San Francisco, Calif. Preparation of sodium sesquicarbonate. No. 1,396,841; Nov. 15.
- Hirschkorn, Morris, assignor to Charles Green Company, Inc., New York, N. Y. Glue-applying mechanism. No. 1,365,590; Jan. 11; v. 282; p. 342.
- Hirschwitz, Aaron, assignor of one-half to S. S. Goldberg, New Orleans, La. Collapsible portable hat-box. No. 1,384,065; July 12; v. 288; p. 216.
- Hirschy, Herman C., Minneapolis, Minn. Wringer. No. 1,399,482; Dec. 6.
- Hirsh, Fred, New York, N. Y. Adjustable strap-fastening. No. 1,398,966; Dec. 6.
- Hirst, William F. (See DeCew, C. A., and Hirst.)
- Hirst, William R. (See Linaburry, Harry W., assignor.)
- Hirt, Edward, Weymouth, Mass. Portable electric-arc light. No. 1,371,420; Mar. 15; v. 284; p. 427.
- Hirt, Joseph F., Chicago, Ill. Dry-kiln. No. 1,385,451; July 26; v. 288; p. 669.
- Hirt, Jules H., El Paso, Tex., assignor to Alvarado Mining and Milling Company, New York, N. Y. Treatment of ores. No. 1,375,002; Apr. 19; v. 285; p. 417.
- Hirt, Louis J., Yonkers, N. Y. Compensating bearing. No. 1,375,697; Apr. 26; v. 285; p. 583.
- Hirth, Carl A., Stuttgart, Germany. Nail-brush. No. 1,374,851; Apr. 12; v. 285; p. 326.
- Hirth, Louis G., and A. Matton, Fernandina, Fla.; said Matton assignor to said Hirth. Machine for deheading shrimps. No. 1,367,546; Feb. 8; v. 283; p. 190.
- Hirtz, Edwin, Paris, France. Sample-card. No. 1,398,431; Nov. 29.
- Hiscock, Edward D., Odell, Oreg. Carburetor-heater. No. 1,378,789; May 17; v. 286; p. 570.
- Hiserodt, Van E., Algona, Iowa. Drawer-stop. No. 1,391,896; Sept. 27; v. 290; p. 698.
- Hisey-Wolf Machine Company, The. (See Ritz, Emil, Jr., assignor.)
- Hiss, William J., New York, N. Y. Conduit or cable clamp and bridle-ring. No. 1,387,489; Aug. 16; v. 289; p. 426.
- Hiss, William J., assignor to Diamond Expansion Bolt Company, New York, N. Y. Conduit or cable clamp and bridle-ring. No. 1,365,613; Jan. 11; v. 282; p. 246.
- Hiss, William J., assignor to Diamond Expansion Bolt Company, New York, N. Y. Conduit or cable clamp and bridle-ring. No. 1,365,614; Jan. 11; v. 282; p. 346.
- Hiss, William J., assignor to Diamond Expansion Bolt Company, New York, N. Y. Conduit or cable clamp and bridle-ring. No. 1,365,615; Jan. 11; v. 282; p. 347.
- Hiss, William J., assignor to Diamond Expansion Bolt Company, New York, N. Y. Conduit or cable clamp and bridle-ring. No. 1,381,192; June 14; v. 287; p. 218.
- Hissong, Joseph H., Bartlesville, Okla. Automobile-locking device. No. 1,384,697; July 12; v. 288; p. 349.
- Hist, John, Cleveland, Ohio. Tractor-plow. No. 1,399,301; Dec. 6.
- Hitchcock, Amos L., Carrabelle, Fla. Trolley-wheel guard. No. 1,376,204; Apr. 26; v. 285; p. 679.
- Hitchcock, Ashland C., Tescott, Kans. Nest. No. 1,396,432; Nov. 8.
- Hitchcock, Daniel A., Haverhill, Mass. Sewing-machine attachment. No. 1,364,373; Jan. 4; v. 282; p. 63.
- Hitchcock, Edgar M. (See La Fehr, F. E., Hitchcock, and Leahy.)
- Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-drawing apparatus. No. 1,398,019; Nov. 22.
- Hitchcock, Harry W., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical measuring apparatus. No. 1,373,504; Apr. 5; v. 285; p. 25.
- Hitchcock, Harry W., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical indicating and measuring device. No. 1,398,266; Nov. 29.
- Hite, Alva L., Pomeroy, Ohio. Reel for electric-wire connections. No. 1,397,633; Nov. 22.
- Hite, Fred A., Napa, assignor to J. A. Sanborn, Oakland, Calif. Bottle attachment. No. 1,386,501; Aug. 2; v. 289; p. 104.
- Hite, George M., Santa Maria, Calif. Saw-gage. No. 1,370,210; Mar. 1; v. 284; p. 86.
- Hitner, Harry F., Wilkinsburg, Pa. Electric-lamp socket. No. 1,380,063; May 31; v. 286; p. 958.
- Hitner, Harry F., Wilkinsburg, Pa., assignor to Pittsburgh Plate Glass Company. Device for severing glass. No. 1,373,728; Apr. 5; v. 285; p. 67.
- Hitt Boll Weevil Machine Company. (See Hitt, Reed R., assignor.)
- Hitt, Reed R., Energy, Tex., assignor to Hitt Boll Weevil Machine Company. Boll-weevil catcher. No. 1,386,502; Aug. 2; v. 289; p. 105.
- Hitt, Thomas G., Seattle, Wash. Aerial toy projectile. No. 1,394,551; Oct. 25.
- Hittenberger, Herman H., Oakland, Calif. Truss. No. 1,396,675; Nov. 1.
- Hixon, Fred A., et al. (See Jones, Edward S., assignor.)
- Hjerpe, Erick. (See Auffurth, E., Jr., and Hjerpe.)
- Hjorth, David, assignor to The General Machine & Manufacturing Co., Bridgeport, Conn. Electric snap-switch. No. 1,379,819; May 31; v. 286; p. 911.
- Hjorth, David, assignor to The General Machine & Manufacturing Co., Bridgeport, Conn. Electric-lamp socket. No. 1,388,645; Aug. 23; v. 289; p. 712.
- Hjorth, Fred, Harlan, Iowa. Tire-pump. No. 1,392,829; Oct. 4.
- Hleb, Peter, Elizabeth, N. J., assignor to Singer Manufacturing Company. Nut-lock. No. 1,400,545; Dec. 20.
- Hmenia, Veronica, Klein, Mont. Rubber thimble. No. 1,380,960; June 7; v. 287; p. 122.
- Hoadley, Charles A., Louisville, Ky. Amusement device. No. 1,373,425; Apr. 5; v. 283; p. 9.
- Hoag, Albert. (See Cook, George R., assignor.)
- Hoag, George, Union Grove, N. Y. Antiskid device. No. 1,396,207; Nov. 8.
- Hoagg, Walter, Detroit, Mich. Beet-topper. No. 1,401,079; Dec. 20.
- Hoagland, Frank O., assignor to The Bilton Machine Tool Company, Bridgeport, Conn. Surface-plate. No. 1,383,629; July 5; v. 288; p. 77.
- Hoagland, Frank O., assignor to The Bilton Machine Tool Company, Bridgeport, Conn. Combined tool-holder and cutter. No. 1,383,630; July 5; v. 288; p. 77.
- Hoagland, Thomas G. (See Menchen, J., and Bergman, assignors.)
- Hoar, Allen, assignor, by mesne assignments, to L. A. Submarine Boat Company, Long Beach, Calif. Depth control for submarines. No. 1,373,329; Mar. 29; v. 284; p. 896.
- Hoar, George W., Waltham, Mass., assignor to Service Electric Manufacturing & Supply Company. Canopy for electric-light fixtures. No. 1,380,147; May 31; v. 286; p. 973.
- Hoar, Samuel T., Meaderville, Mont. Blasting apparatus. No. 1,369,658; Feb. 22; v. 283; p. 686.
- Hoare, Arthur W., Shoreham, England. Animal-trap. No. 1,376,695; May 3; v. 286; p. 59.
- Hobart, Henry M. (See Stone, C. W., and Hobart.)
- Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Electricity transforming and converting apparatus. No. 1,380,961; June 7; v. 287; p. 122.
- Hobart, Henry M., Schenectady, N. Y., assignor to General Electric Company. Electricity-transformer and transforming and converting apparatus. No. 1,394,901; Oct. 25.
- Hobart Manufacturing Company, The. (See Rataiczak, Thomas F., assignor.)
- Hobbs, Elbert R., Castileford, Idaho. Self-cleaning type. No. 1,375,153; Apr. 19; v. 285; p. 447.
- Hobbs, Frank K., Guymon, Okla. Clamp. No. 1,394,413; Oct. 18.
- Hobbs, John R., London, England. Piston. No. 1,393,285; Oct. 11.
- Hobbs, John R., London, England. Tool for grinding internal cylindrical surfaces. No. 1,393,625; Oct. 11.
- Hobbs, Stanton S. (See Godfrey, Raleigh W., assignor.)
- Hobbs Storage Battery Co. (See Guy, Samuel R., assignor.)
- Hobday, John B., et al. (See Rowe, John J., assignor.)
- Hobelmänn, Herman A., Baltimore, Md. Window attachment. No. 1,401,080; Dec. 20.
- Hoberdier, Lewis A., Canton, Ohio. Lamp-house. No. 1,370,315; Mar. 1; v. 284; p. 106.
- Hobson, Amon, Glendale, Ariz. Combined stalk-cutter and soil-pulverizer. No. 1,377,073; May 3; v. 286; p. 132.
- Hoch, Joseph. (See Wadler, Wilhelm, assignor.)
- Hoch, Otto M. (See Seymour, C. R., Hoch, and Adams.)
- Hoch, Otto M., assignor to M. D. Knowlton Company, Rochester, N. Y. Double-scoring machine. No. 1,386,110; Aug. 2; v. 289; p. 29.
- Hochman, Jacob, New York, N. Y. Safety and bobbin-winder attachment for sewing-machines. No. 1,387,005; Aug. 9; v. 289; p. 279.
- Höchstädter, Martin, Berlin, Germany, assignor to N. V. Lyn-Protectie, Maatschappij tot Exploitatie Van Electro-technische en Andere Octvoeien, The Hague, Netherlands. System for protecting electric-current-distributing nets against temporary interruptions. No. 1,396,112; Nov. 8.
- Hochstetter, Frederick W., assignor to H. P. Patents and Processes Company, Inc., New York, N. Y. Light-regulator for projecting moving pictures. No. 1,364,278; Jan. 4; v. 282; p. 46.
- Hochstetter, Frederick W., New York, N. Y., assignor to H. P. Patents and Processes Company, Inc. Framing device for moving-picture machines. No. 1,365,102; Jan. 11; v. 282; p. 247.
- Hochstetter, Frederick W., New York, assignor of one-half to P. M. Pierson, Scarborough, N. Y. Convertible moving-picture machine. No. 1,372,619; Mar. 22; v. 284; p. 713.
- Hochstetter, Frederick W., New York, N. Y., assignor to H. P. Patents and Processes Company, Inc. Screen for exhibiting moving pictures. No. 1,372,620; Mar. 22; v. 284; p. 713.



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- Hochstetter, Frederick W., New York, assignor of one-half to P. M. Pierson, Scarborough, N. Y. Moving-picture machine. No. 1,372,621; Mar. 22; v. 284; p. 713.
- Hochstetter, Frederick W., New York, N. Y., assignor to H. P. Patents and Processes Company, Inc. Screen for exhibiting moving pictures. No. 1,389,357; Aug. 30; v. 289; p. 909.
- Hock, Alfred H., Bluefield, W. Va. Dish-washer. No. 1,388,431; Aug. 23; v. 289; p. 671.
- Hockspeier, Louis H., New Hampton, Iowa. Shipping-crate. No. 1,381,193; June 14; v. 287; p. 218.
- Hodell, Frederick G., Cleveland, Ohio. Chain-link. No. 1,368,437; Feb. 15; v. 283; p. 409.
- Hodes, Edward B., assignor of one-half to C. A. Lawes, Chicago, Ill. Draw-sheet guide. No. 1,368,930; Feb. 15; v. 283; p. 505.
- Hodge, Albert P., assignor to Wm. L. Gilbert Clock Co., Winsted, Conn. Alarm-controlling mechanism. No. 1,396,842; Nov. 15.
- Hodge, Harry R., Brooklyn, N. Y. Screw-action wrench. No. 1,366,801; Jan. 25; v. 282; p. 663.
- Hodge, Howard D., New York, N. Y., and J. G. Duff, Waterbury, Conn. Register. No. 1,382,913; June 28; v. 287; p. 657.
- Hodge, Jacques & Company, Limited. (See Robinson, John, assignor.)
- Hodge, Leslie R., Los Angeles, Calif. Percolator-stand. No. 1,389,508; Aug. 30; v. 289; p. 938.
- Hodge, Richard M., New York, N. Y. Ribbon-moistening devices. No. 1,366,802; Jan. 25; v. 282; p. 663.
- Hodge, William B. (See Cramer, S. W., and Hodge.)
- Hodges, Chauncey W., Kalamazoo, Mich. Wheel traction and antislip device. No. 1,372,692; Mar. 29; v. 284; p. 768.
- Hodges, Chauncey W., Galesburg, Mich. Chain. No. 1,372,693; Mar. 29; v. 284; p. 768.
- Hodges, Eddie C., Blossom, Tex. Tunnel. No. 1,364,759; Jan. 4; v. 282; p. 137.
- Hodges, Edward G., Milwaukee, Wis. Fuel-supply device for carbureters. No. 1,367,143; Feb. 1; v. 283; p. 52.
- Hodges, Elvin C., Cambridge, Mass. Traffic-signal. No. 1,380,801; June 7; v. 287; p. 92.
- Hodges, Jesse E., Covington, Ky. Adjustable strut. No. 1,385,546; July 26; v. 288; p. 679.
- Hodges, Lloyd E., Glendora, Calif. Machine-gun. No. 1,399,119; Dec. 6.
- Hodges, Walter E., and C. F. Larzelere, Flint, Mich. Fishing-line reel. No. 1,398,189; Nov. 22.
- Hodgin, Isaac V., Greene, Iowa. Heater for stock-watering tanks. No. 1,372,815; Mar. 29; v. 284; p. 793.
- Hodgins, Frank S. (See Hess, J. W., and Hodgins.)
- Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electromagnet device. No. 1,389,140; Aug. 30; v. 289; p. 865.
- Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,392,162; Sept. 27; v. 290; p. 752.
- Hodgkinson, Francis, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Co. Soldering-strip. No. 1,399,769; Dec. 13.
- Hodgson, Harold W., Worcester, Mass. Punch-grinding machine. No. 1,377,481; May 10; v. 286; p. 268.
- Hodgson, Harold W., Worcester, Mass. Wire-drawing machine. No. 1,390,714; Sept. 13; v. 290; p. 323.
- Hodgson, James E., New York, N. Y. Embroidery-machine. No. 1,395,961; Nov. 1.
- Hodgson, Millard B., Rochester, N. Y. Cassette for X-ray films. No. 1,367,601; Feb. 8; v. 283; p. 200.
- Hodgson, Thomas A. Y., Palmerton, Pa. Game apparatus. No. 1,366,181; Jan. 18; v. 282; p. 496.
- Hodson, Frank, Nokomis, Ill. Safety-catch. No. 1,381,555; June 14; v. 287; p. 286.
- Hoe, R., and Co. (See Andresen, John H., assignor.)
- Hoe, R., and Co. (See Johnston, Robert T., assignor.)
- Hoe, R., and Co. (See Mills, T. J., and Morris, assignors.)
- Hoe, R., and Co. (See Raabe, Otto L., assignor.)
- Hoe, R., and Co. (See Roesen, Oscar, assignor.)
- Hoe, R., and Co. (See Schmidt, Louis A., assignor.)
- Hoe, R., and Co. (See Tornberg, Isidor, assignor.)
- Hoe, R., and Co. (See Wood, W. M., and Reynolds, assignors.)
- Hoe, R., and Co. (See Wood, William M., assignor.)
- Hoecken, Karl, Berlin-Friedenau, Germany. Tens-carrying mechanism of computing-machines. No. 1,391,319; Sept. 20; v. 290; p. 509.
- Hoefer, Benjamin C., assignor to Hoefer Change-Maker Company, Kansas City, Mo. Coin-delivering machine. No. 1,388,861; Aug. 30; v. 289; p. 809.
- Hoefer Change-Maker Company. (See Hoefer, Benjamin C., assignor.)
- Hoefle, Frank F., Louisville, Ky. Spring. No. 1,389,303; Aug. 30; v. 289; p. 898.
- Hoegge, Wm. H., Co. (See Forsyth, Oliver E., assignor.)
- Hoegenauer, Haver. (Schwab, B., Schneider, and Hoegenauer.)
- Hoehl, Bruno A., Wheeling, W. Va. Preserved malt preparation. No. 1,381,833; June 14; v. 287; p. 358.
- Hoehn, Alfred J., New York, N. Y. Clothespin. No. 1,373,729; Apr. 5; v. 285; p. 67.
- Hoelscher, Edwin W., St. Louis, Mo. Combined ticket-holder and lid-sustainer. No. 1,397,734; Nov. 22.
- Hoenemann, Theodor E., assignor to Dura Construction Company, Boston, Mass. Machine for making concrete blocks. No. 1,398,898; Nov. 29.
- Hoener, Samuel T., Slater, Mo. Front-wheel drive for vehicles. No. 1,394,013; Oct. 18.
- Hoepner, George, Chicago, Ill. Automatic feed-regulating means for weighing-machines. No. 1,367,047; Feb. 1; v. 283; p. 33.
- Hoerger, William, assignor of one-half to A. Hirsch, Albert Lea, Minn. Oil-burner. No. 1,395,824; Nov. 1.
- Hoerner, Frank, Los Angeles, Calif. Automatic tapping device. No. 1,381,556; June 14; v. 287; p. 286.
- Hoerr, Louis A., St. Louis, Mo. Striking-block for railway-cars. No. 1,382,085; June 21; v. 287; p. 445.
- Hoeschen, Henry A., assignor of one-half to Baker Ice Machine Company, Omaha, Nebr. Automatic electric switch. No. 1,366,731; Jan. 25; v. 282; p. 649.
- Hoeschen, Herman, Freeport, Minn. Buckle. No. 1,394,552; Oct. 25.
- Hoeschen Manufacturing Company. (See Carlson, George H., assignor.)
- Hoebet, Alfred T. (See Gray, Edwin T., and Hoebet.)
- Hoey, Samuel C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Lamp fixture. No. 1,374,569; Apr. 12; v. 285; p. 271.
- Hofer, Alfred H., Dayton, Ohio, and L. T. Wickey, Los Angeles, Calif. Steering mechanism. No. 1,385,785; July 26; v. 288; p. 728.
- Hofer, Charles, Newark, N. J. Detonating toy. No. 1,367,391; Feb. 1; v. 283; p. 101.
- Hoff, Conrad F. (See Lyons, L. D., and Hoff.)
- Hoff, Matthew C., Hutchinson, Kans. Harvester-pitman. No. 1,399,861; Dec. 13.
- Hoff, William H., San Francisco, Calif. Auxiliary condenser and cooler. No. 1,369,526; Feb. 22; v. 283; p. 659.
- Hoffay, Jose, New York, N. Y. Sound-reproducer. No. 1,382,086; June 21; v. 287; p. 445.
- Hoffenberg, Maurice J., New Haven, Conn. Skate-fastener. No. 1,398,857; Nov. 29.
- Hoffer, Fred C., Los Angeles, and J. Frank Smedley, Pasadena, assignors to Motorcycle Sweeper Company, Los Angeles, Calif. Street-sweeper. No. 1,369,106; Feb. 22; v. 283; p. 579.
- Hoffer, Herman and J., New York, N. Y. Hollow casting. No. 1,394,553; Oct. 25.
- Hoffer, Ivan L., Marcus, Wash. Calculator. No. 1,365,907; Jan. 18; v. 282; p. 461.
- Hoffer, Jacob. (See Hoffer, Herman and J.)
- Hoffer, John, Carlisle, Wash. Tire-mounting device. No. 1,372,660; Mar. 22; v. 284; p. 721.
- Hoffer, John, Marianna, Pa. Governor for elevators. No. 1,389,248; Aug. 30; v. 289; p. 886.
- Hoffer, John, Marianna, Pa. Safety mechanism for elevators. No. 1,396,751; Nov. 15.
- Hoffer, John, Marianna, Pa. Safety device for elevator-cages. No. 1,396,752; Nov. 15.
- Hoffer, John, Marianna, Pa. Safety device for elevator-cars. No. 1,396,753; Nov. 15.
- Hoffert, Charles M. (See Zippler, Francis J., assignor.)
- Hoffman, Adolf. (See Frankowski, H., and Hoffman.)
- Hoffman, Alexander, New York, N. Y. Shaving utensil. No. 1,365,103; Jan. 11; v. 282; p. 247.
- Hoffman, Arthur L., Pittsburgh, Pa. Laundry-machine. No. 1,371,091; Mar. 8; v. 284; p. 299.
- Hoffman, Carl, Allentown, Pa. Lock. No. 1,383,631; July 5; v. 288; p. 77.
- Hoffman, Carl, Allentown, Pa. Automobile-signal. No. 1,383,632; July 5; v. 288; p. 77.
- Hoffman, Carl, Allentown, Pa. Lock. No. 1,388,711; Aug. 23; v. 289; p. 725.
- Hoffman, Carl, Allentown, Pa. Door-bolt. No. 1,388,712; Aug. 23; v. 289; p. 725.
- Hoffman, Carl, Allentown, Pa. Lock. No. 1,388,713; Aug. 23; v. 289; p. 725.
- Hoffman, Daniel E., Plymouth, Ohio. Forming and constructing the meshed elements of separator-sieves. No. 1,386,335; Aug. 2; v. 289; p. 74.
- Hoffman, Edward R., et al. (See Scheibler, August, assignor.)
- Hoffman, Felix, Newport News, Va. Liner-puller. No. 1,385,452; July 26; v. 288; p. 660.
- Hoffman, Frank C., Alameda, Calif. Garment-fastener. No. 1,381,417; June 14; v. 287; p. 260.
- Hoffman, Frank K., et al. (See Snyder, George C., assignor.)
- Hoffman, Harry A. (See Kohler, C. W., Hoffman, and Freeman.)
- Hoffman, Harry A., and W. H. Juve, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Mixing rubber with comminuted metal. No. 1,395,413; Nov. 1.
- Hoffman, Harry T., assignor of one-half to F. M. Conner, Fairview, Okla. Watch-holder. No. 1,373,003; Mar. 29; v. 284; p. 831.
- Hoffman, Herman G. (See Braun, A. J., and Hoffman.)
- Hoffman, Israel, Brooklyn, N. Y. Hair-waver. No. 1,380,064; May 31; v. 286; p. 958.
- Hoffman, John, Port Huron, Mich. Vehicle-wheel. No. 1,385,171; July 19; v. 288; p. 527.
- Hoffman, John E., Kansas City, Mo. Coaster-vehicle. No. 1,373,004; Mar. 29; v. 284; p. 831.



*Alphabetical list of patentees—Continued.*

- Hoffman, John E., assignor to Universal Novelty Manufacturing Company, Kansas City, Mo. Coaster-vehicle. No. 1,371,421; Mar. 15; v. 284; p. 427.
- Hoffman, Joseph K., *et al.* (See Myers, Jacob S., assignor.) (Reissue.)
- Hoffman, Leon F., Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Ignition device for internal-combustion motors. No. 1,384,321, July 12; v. 288; p. 269.
- Hoffman, Leonard E. (See Martin, Clyde W., assignor.)
- Hoffman, Morris J., Chicago, Ill. Coupon-ticket-printing machine. No. 1,371,893; Mar. 15; v. 284; p. 517.
- Hoffman, Paul, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Constant-volume regulator for turbo-compressors. No. 1,383,258; June 28; v. 287; p. 722.
- Hoffman, Peter A., Hastings, Minn. Clamping device. No. 1,395,825; Nov. 1.
- Hoffman, Peter M., Des Plaines, Ill. Lamp for motor-vehicles, &c. No. 1,388,567; Aug. 23; v. 289; p. 697.
- Hoffman, Reuben F., Hamilton, Ohio. Steering mechanism. No. 1,378,456; May 17; v. 286; p. 505.
- Hoffman, Richard A., New York, N. Y. Ash-protector and cutter adaptable to cigars and cigarettes. No. 1,394,622; Oct. 25.
- Hoffman, Roscoe C., Indianapolis, Ind. Disk vehicle-wheel. No. 1,376,205; Apr. 26; v. 285; p. 679.
- Hoffman, Roscoe C., Indianapolis, Ind. Making disk wheels and rims. No. 1,376,622; May 3; v. 286; p. 46.
- Hoffman, Roscoe C., Hammond, Ind. Disk wheel for vehicles. No. 1,376,938; May 3; v. 286; p. 107.
- Hoffman, Roscoe C., Indianapolis, Ind. Forming disk wheel. No. 1,380,906; June 7; v. 287; p. 111.
- Hoffman, Roscoe C., Indianapolis, Ind. Disk-wheel construction. No. 1,387,982; Aug. 16; v. 289; p. 524.
- Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Company, Chicago, Ill. Lighting-ring. No. 1,367,392; Feb. 1; v. 283; p. 102.
- Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Oil-stove. No. 1,367,393; Feb. 1; v. 283; p. 102.
- Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Oil-stove. No. 1,369,029; Feb. 22; v. 283; p. 563.
- Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Oil-stove. No. 1,369,030; Feb. 22; v. 283; p. 564.
- Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Oil-burner. No. 1,372,694; Mar. 29; v. 284; p. 768.
- Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Kitchen-cabinet. No. 1,387,927; Aug. 16; v. 289; p. 514.
- Hoffman, William A., St. Louis, Mo., assignor to Johns-Manville Incorporated. Form for molding monolithic baffle-walls for water-tube boilers and making the same. No. 1,377,774; May 10; v. 286; p. 323.
- Hoffman, William J., assignor to United States Motor Fuel Corporation, New York, N. Y. Treatment of hydrocarbon distillates. No. 1,367,968; Feb. 8; v. 283; p. 270.
- Hoffman, William M., assignor to General Fuel Apparatus Corporation, Buffalo, N. Y. Fuel-oil burner. No. 1,378,115; May 17; v. 286; p. 441.
- Hoffman, William M., assignor to General Fuel Apparatus Corporation, Buffalo, N. Y. Hydrocarbon-burner. No. 1,401,403; Dec. 27.
- Hoffman, William M., assignor to General Fuel Apparatus Corporation, Buffalo, N. Y. Hydrocarbon-burner. No. 1,401,404; Dec. 27.
- Hoffmann, Charles C. (See Haggood, Clarence H., assignor.)
- Hoffmann, Clarence O., and W. A. McKinnon, Detroit, Mich. Fuel-supply system for internal-combustion engines. No. 1,395,412; Nov. 1.
- Hoffmann, Edwin A. (See Franz, John W., assignor.)
- Hoffmann, Ferdinand, Cuchenheim, at Euskirchen, Germany. Typewriting-machine. No. 1,370,648; Mar. 8; v. 284; p. 215.
- Hoffmann, George E. von, Evanston, Ill. Scraper. No. 1,396,702; Nov. 8.
- Hoffmann, Gustav, Chicago, Ill. Quick-adjusting wrench. No. 1,396,576; Nov. 8.
- Hoffmann, Irving S., Columbus, Ohio. Mold for tubes and tires. No. 1,378,678; May 17; v. 286; p. 649.
- Hoffmann, Joseph J. (See Coleman, F. A., and Hoffmann.)
- Hoffmann-La Roche Chemical Works, The. (See Frey, Albert, assignor.)
- Hoffmann, Loran L. (See Smith, Samuel C., assignor.)
- Hoffmann, Oscar, Stuttgart, Germany. Electric pocket-lamp. No. 1,392,163; Sept. 27; v. 290; p. 753.
- Hoffmeyer, Conrad M., Stratford, Ontario, Canada. Excavating-machine. No. 1,385,322; July 19; v. 288; p. 557.
- Hofheimer, Maurice, Baltimore, Md. Can-filling machine. No. 1,367,259; Feb. 1; v. 283; p. 75.
- Hofey, Frances, Lampman, Saskatchewan, Canada. Fly-trap. No. 1,387,716; Aug. 16; v. 289; p. 472.
- Hofman, William G. (See Pester, M. E., Porter, and Hofman.)
- Hofmann, Alfred, Zurich, Switzerland. Mechanically-stoked furnace. No. 1,388,714; Aug. 23; v. 289; p. 725.
- Hofmann, Carl F., *et al.* (See Cumfer, H., and McFarland, assignors.)
- Hofmann, Stephen, Brooklyn, N. Y. Water-faucet washers. No. 1,366,803; Jan. 25; v. 282; p. 664.
- Hofmeister, Frank J., and J. O. Middaugh, Yonkers, N. Y. Gear-shift means for automobile transmission. No. 1,392,830; Oct. 4.
- Hofmeister, Leo, Milwaukee, Wis. Teat-cup. No. 1,387,983; Aug. 16; v. 289; p. 524.
- Hoftrup, Louis M., Elmira, N. Y. Draft for tractor-plows. No. 1,386,336; Aug. 2; v. 289; p. 75.
- Hogan, Anna A., Elmhurst, N. Y. Waist. No. 1,382,358; June 21; v. 287; p. 497.
- Hogan, Christopher J., Newport, R. I. Curtain-roller-operating device. No. 1,382,192; June 21; v. 287; p. 464.
- Hogan, George F., Chicago, Ill. Envelop. No. 1,387,717; Aug. 16; v. 289; p. 472.
- Hogan, George L., assignor of one-half to A. H. Marshall, Chicago, Ill. Testing apparatus for internal-combustion-engine ignition systems. No. 1,372,751; Mar. 29; v. 284; p. 780.
- Hogan, John L., *et al.* (See Dunbar, Thomas E., assignor.)
- Hogan, Joseph E., New York, N. Y. Belt. No. 1,394,414; Oct. 18.
- Hogan, Leonard J., and L. L. Furman, Williamsburg, Iowa. Water-trough. No. 1,393,686; Oct. 11.
- Hogan, Thomas I. (See Reid, James H., assignor.)
- Hogan, William A., Danville, Va. Cloth-guiding device for cloth-finishing machines. No. 1,385,746; July 26; v. 288; p. 720.
- Hogarty, Leo J., Brooklyn, N. Y. Dental-floss holder. No. 1,368,799; Feb. 15; v. 283; p. 479.
- Hoge, Daniel W., assignor, by mesne assignments, to Bash Oil and Refining Company, Chicago, Ill. Method of and apparatus for treating petroleum. No. 1,382,727; June 28; v. 287; p. 621.
- Hoge Manufacturing Company, The. (See Raeburn, William, assignor.)
- Hoge Manufacturing Company, The. (See Saunders, William M., assignor.)
- Hoge, Smith A., Rices Landing, Pa. Vehicle-wheel. No. 1,370,444; Mar. 1; v. 284; p. 131.
- Hogg, John O., Binghamton, N. Y. Tractor. No. 1,370,538; Mar. 8; v. 284; p. 193.
- Hogg, William L., Denver, Colo. Telegoniometer. No. 1,399,963; Dec. 13.
- Hogland, F. G. (See Everett, William R., assignor.)
- Hogstrom, Peter, New York, N. Y. Roof-door. No. 1,380,207; May 31; v. 286; p. 984.
- Hogue, Charles L., Oakland, Calif. Eyeglass-mounting. No. 1,385,828; July 26; v. 288; p. 737.
- Hogue, John C., assignor of one-half to M. H. Palmer, Memphis, Tenn. Safety attachment for the suction-pipes of centrifugal pumps. No. 1,372,139; Mar. 22; v. 284; p. 621.
- Hogue, Oliver D., Brookline, Mass., assignor to G. H. Maxwell, Phoenix, Ariz. Shoe-bottom-filling machine. No. 1,385,486; July 26; v. 288; p. 667.
- Hohenstatt, Oscar R., and Henry Wiederhold, Ozone Park, N. Y. Caster. No. 1,370,746; Mar. 8; v. 284; p. 234.
- Hohenstein, Edward L., *et al.* (See Engel, William C., assignor.)
- Hohl, George I., Newark, N. J. Intermittent-motion mechanism. No. 1,393,219; Oct. 11.
- Hohmann, Richard K., Sioux City, Iowa, assignor to Hohmann Sewing Machine Company, Peru, Ind. Rotary-hook sewing mechanism. No. 1,364,279; Jan. 4; v. 282; p. 46.
- Hohmann, Richard K., assignor to Hohmann Sewing Machine Company, Peru, Ind. Sewing-machine take-up mechanism. No. 1,393,127; Oct. 11.
- Hohmann Sewing Machine Company. (See Hohmann, Richard K., assignor.)
- Hohnsbeen, George H., assignor of three-fifths to J. D. Brown, Minneapolis, Minn. Memorandum-file. No. 1,365,320; Jan. 11; v. 282; p. 289.
- Hohnsbeen, George H., assignor of three-fifths to J. D. Brown, Minneapolis, Minn. Electric fan. No. 1,374,658; Apr. 12; v. 285; p. 289.
- Hohnsbeen, George H., assignor of three-fifths to J. D. Brown, Minneapolis, Minn. Memorandum-file. No. 1,398,591; Nov. 29.
- Hohnsbeen, George H., assignor of three-fifths to J. D. Brown, Minneapolis, Minn. Memorandum-file. No. 1,398,592; Nov. 29.
- Hoil, Tobias, Buffalo, N. Y., assignor to R. L. Phillips, Atlanta, Ga. Pump. No. 1,379,764; May 31; v. 286; p. 900.
- Hölmärk, Johannes. (See Holscher, J. D., and Hölmärk.)
- Holsington, William R., Walthill, Nebr. Hog catching and holding device. No. 1,377,833; May 10; v. 286; p. 335.
- Hokanson, Charles, assignor of one-third to E. Hokanson and one-third to E. Koeppe, Crookston, Minn. Lock snap-hook. No. 1,376,278; Apr. 26; v. 285; p. 693.
- Hokanson, Charles J., Crookston, Minn. Hay rack and unloader. No. 1,368,931; Feb. 15; v. 283; p. 505.
- Hokanson, Emanuel, *et al.* (See Hokanson, Charles, assignor.)
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Ribbon-spool for typewriters. No. 1,366,182; Jan. 18; v. 282; p. 496.



## Alphabetical list of patentees—Continued.

- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Key-lever tension device. No. 1,375,789; Apr. 26; v. 285; p. 599.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Ribbon-vibrator. No. 1,383,540; July 5; v. 288; p. 58.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Ribbon-vibrator. No. 1,385,374; July 26; v. 288; p. 643.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Automatic ribbon-reverse. No. 1,385,547; July 26; v. 288; p. 679.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Automatic ribbon-reverse. No. 1,385,548; July 26; v. 288; p. 680.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Typewriter mechanism. No. 1,385,549; July 26; v. 288; p. 680.
- Hoke, Sam W., Palisade, N. J. Jeweler's torch. No. 1,384,954; July 19; v. 288; p. 482.
- Hoke, William E., Washington, D. C. Wear-resisting surface. No. 1,379,984; May 31; v. 286; p. 942.
- Holbert, George B., New York, N. Y. Coal-trimming device. No. 1,382,359; June 21; v. 287; p. 497.
- Holbrook, Cyrus M. T., et al. (See Mullins, John C., Jr., assignor.)
- Holbrook, Harry R., Attleboro, Mass. Box-fastener. No. 1,369,659; Feb. 22; v. 283; p. 686.
- Holbrook, J. F. (See Youle, William E., assignor.)
- Holbrook, Margaret, administratrix. (See Holbrook, Willie L.)
- Holbrook, Rolfe R., assignor to W. A. Lurie, New Orleans, La. Key-cutting machine. No. 1,400,678; Dec. 20.
- Holbrook, Willie L., deceased, Seaside; M. Holbrook, administratrix, assignor to J. W. Henry, Portland, Oreg. Waffle-mold. No. 1,385,829; July 26; v. 288; p. 737.
- Holcom, Jarret C., Sulphur Springs, Tex. Leaf-turner. No. 1,364,992; Jan. 11; v. 282; p. 226.
- Holcomb and Hoke Manufacturing Company. (See Booth, Earl C., assignor.)
- Holcomb & Hoke Manufacturing Company. (See Tripp, Charles A., assignor.)
- Holcomb, James A., San Francisco, Calif. Cream-sampler. No. 1,381,557; June 14; v. 287; p. 286.
- Holcomb, Mollie W., Erie, Pa. Article-holder. No. 1,396,513; Nov. 8.
- Holcomb, William J., Bellefontaine, Ohio. Combination lock for car-doors. No. 1,401,701; Dec. 27.
- Hold, William J., et al. (See Brocke, Gerhard, assignor.)
- Holdbrook, Albert C. H., Providence, R. I. Cigarette-rolling device. No. 1,379,865; May 31; v. 286; p. 920.
- Holden Company, The. (See Ord, Lewis C., assignor.)
- Holden, David R., Peoria, Ill. Attaching means for broadcast distributors. No. 1,396,843; Nov. 15.
- Holden, Hiram, Manchester, N. H. Shoe-upper. No. 1,395,277; Nov. 1.
- Holden, Joseph B., Syracuse, assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting-machine. No. 1,376,879; May 3; v. 286; p. 95.
- Holden, Joseph B., Syracuse, assignor to Remington Typewriter Company, Iliou, N. Y. Ribbon-spool holder for typewriting-machines. No. 1,379,408; May 24; v. 286; p. 760.
- Holden, Joseph B., Syracuse, assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting-machine. No. 1,386,256; Aug. 2; v. 289; p. 59.
- Holden, Joseph B., Utica, assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting-machine. No. 1,381,994; June 21; v. 287; p. 428.
- Holden, Joseph B., Utica, assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting-machine. No. 1,386,111; Aug. 2; v. 289; p. 30.
- Holden, Joseph B., Utica, assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting-machine. No. 1,397,166; Nov. 15.
- Holden & White. (See Bakstad, Johan R., assignor.)
- Holder, Frederick J., Deptford, and H. Steward, Harlesden, assignors of one-half to W. A. Thornton, Kensington, England. Internal-combustion motor with slide-valve action. No. 1,364,374; Jan. 4; v. 282; p. 63.
- Holder, Henry A., Lynn, Mass. Machine for treating hides, skins, and leather. No. 1,373,426; Apr. 5; v. 285; p. 9.
- Holder, John I., Copiague, N. Y., assignor to The Barrett Company. Combined waterproof sheet and flashing receptacle. No. 1,377,349; May 10; v. 286; p. 242.
- Holder, Reuben H., Winston-Salem, N. C. Cloth-saving device. No. 1,383,116; June 28; v. 287; p. 695.
- Holder, William E. (See Bowmar, Gershon, assignor.)
- Holding, Chester, New Richmond, Wis. Hog-holding device. No. 1,398,484; Nov. 29.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. No. 1,377,981; May 10; v. 286; p. 363.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor. No. 1,401,603; Dec. 27.
- Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. No. 1,401,908; Dec. 27.
- Holdsworth, Willie, Providence, R. I. Top screw for gill-drawing frames. No. 1,394,829; Oct. 25.
- Holdzem Company. (See Calovi, Primo, assignor.)
- Hole, Dean, Chicago, Ill. Luminous pendant. No. 1,395,110; Oct. 25.
- Hole, Morris C., Pasadena, Calif. Pipe-screwing machine. No. 1,401,405; Dec. 27.
- Holeproof Hosiery Co. (See Evans, Humphrey, assignor.)
- Holgerson, Otto C., Peabody, Kans. Collapsible airplane. No. 1,368,150; Feb. 8; v. 283; p. 305.
- Hollfield, Joseph A., Mobile, Ala. Electric-current generator for arc-circuits. No. 1,374,080; Apr. 5; v. 285; p. 136.
- Hollaender, Walter S., Cincinnati, Ohio. Drinking attachment for faucets. No. 1,387,718; Aug. 16; v. 289; p. 472.
- Holland, Albert E., et al. trustees. (See Rockwell, R. L., and Stevens, assignors.)
- Holland, Charles E., Brooklyn, N. Y. Recovering coal, held in suspension, from coal-bearing water and streams. No. 1,397,735; Nov. 22.
- Holland, Granville S. P., Jr., Norfolk, Va. Testing device for spark-plugs. No. 1,395,570; Nov. 1.
- Holland, James, and W. C. Welch, Gonic, N. H. Broom-protector. No. 1,378,457; May 17; v. 286; p. 505.
- Holland, James B., Douglasville, Ga. Swing. No. 1,379,566; May 24; v. 286; p. 789.
- Holland, James H., Stuttgart, Ark. Automatic fuel-supply-regulating means for hydrocarbon-burners. No. 1,391,956; Sept. 27; v. 290; p. 711.
- Holland, James J., Philadelphia, Pa. Valvular coupling. No. 1,373,505; Apr. 5; v. 285; p. 25.
- Holland, Jeremiah F., Beaver Dam, Wis. Scrubbing-brush. No. 1,395,495; Nov. 1.
- Holland-Letz, Lud., Oak Park, Ill., assignor, by mesne assignments, to International Harvester Company. Hemp harvesting and spreading machine. No. 1,385,917; July 26; v. 288; p. 754.
- Holland Lighting and Specialty Co. (See Olinger, Thomas, assignor.)
- Holland, Luther W., Pleasant Hill, Mo. Latch. No. 1,383,302; July 5; v. 288; p. 9.
- Holland, Lyle H., Peterboro, N. H., assignor to Eastern States Package Co., Buffalo, N. Y. Riving device. No. 1,383,208; June 28; v. 287; p. 713.
- Holland, Newman H., assignor to New Jersey Patent Company, West Orange, N. J. Transmitter and circuits therefor. No. 1,397,687; Nov. 22.
- Holland, Walter E. (See Heberling, R. L., and Holland.)
- Holland, Walter E., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery-cell construction. No. 1,371,894; Mar. 15; v. 284; p. 518.
- Holland, Walter E., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery-cell cover. No. 1,371,895; Mar. 15; v. 284; p. 518.
- Holland, Walter E., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Storage-battery grid. No. 1,380,962; June 7; v. 287; p. 122.
- Holland, Walter E., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Storage-battery grid. No. 1,380,963; June 7; v. 287; p. 123.
- Holland, Walter E., and J. M. Skinner, assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery-grid. No. 1,364,760; Jan. 4; v. 282; p. 137.
- Holland, Walter E., and J. M. Skinner, assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery-sealing means. No. 1,371,092; Mar. 8; v. 284; p. 299.
- Holland, Walter E., and J. M. Skinner, assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery connection. No. 1,371,093; Mar. 8; v. 284; p. 300.
- Holland, Walter E., and J. M. Skinner, assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Storage-battery grid. No. 1,387,397; Aug. 9; v. 289; p. 357.
- Holland, William A., London, Ohio. Fencepost. No. 1,373,560; Apr. 5; v. 285; p. 35.
- Hollands, John C., assignor to Griswold Manufacturing Company, Erie, Pa. Kettle. No. 1,377,684; May 10; v. 286; p. 305.
- Hollar, William H., Jr., Philadelphia, Pa. Safe or vault door. No. 1,369,660; Feb. 22; v. 283; p. 686.
- Holle, Alexander A., Westminster, London, England. Aerofoil for aeroplanes. No. 1,379,921; May 31; v. 286; p. 930.
- Holle, Christian, Jr., San Diego, Calif. Magnifying attachment for slide-rules. No. 1,387,267; Aug. 9; v. 289; p. 329.
- Holle, Joseph, Newark, N. J., assignor to McCord Manufacturing Company, Inc., Detroit, Mich. Gasket. No. 1,387,648; Aug. 16; v. 289; p. 458.
- Hollenbeck, Verne A. (See Rundell, Raymond R., assignor.)
- Holley, George M. (See Anderson, Raymond M., assignor.)
- Holley, George M. (See Udale, Stanley M., assignor.)
- Holley, George M., Detroit, Mich. Exhaust-heated oil-vaporizer. No. 1,400,287; Dec. 13.
- Holley, Henry E., Otisville, N. Y. Demountable wheel. No. 1,398,020; Nov. 22.
- Holley, James C., Omaha, Nebr. Wrench. No. 1,367,969; Feb. 8; v. 283; p. 270.



- Holley, William V., assignor to New York Bath Manufacturing, Inc., New York, N. Y. Collapsible seat for children. No. 1,398,021; Nov. 22.
- Holliday, William J. (See Schaf, J. C., Jr., and Holliday.)
- Hollifield, Horatio B., Washington, D. C. Attachment for motor-vehicles. No. 1,395,111; Oct. 25.
- Hollingsbery, George, Mayville, Wis. Grizzly-screen. No. 1,399,211; Dec. 6.
- Hollingsworth, Cecil L., St. Louis, Mo. Adjustable offset tool-holder. No. 1,379,866; May 31; v. 286; p. 920.
- Hollins, Frederick E., Somerville, Mass. Knockdown burial-casket. No. 1,373,730; Apr. 5; v. 285; p. 67.
- Hollis, Orlando B., Spokane, Wash. Vehicle number-plate. No. 1,367,659; Feb. 8; v. 283; p. 211.
- Hollis, Rey, Santa Barbara, Calif. Cushion for head-rests. No. 1,401,406; Dec. 27.
- Hollister, John R. (See Palmer, C. L., and Hollister.)
- Hollister, William C., assignor to Chicago Lino-Tabler Company, Chicago, Ill. Printing-form and ruling same. No. 1,378,230; May 17; v. 286; p. 462.
- Holloway, Halbert H., San Francisco, Calif. Intake-manifold-heating device. No. 1,394,830; Oct. 25.
- Holloway, Harry A., and L. E. Trachsel; said Holloway assignor of his right to The King Manufacturing Company, St. Joseph, Mo. Lighting-fixture. No. 1,366,911; Feb. 1; v. 283; p. 6.
- Holloway, Jesse F., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Car-truck. No. 1,399,709; Dec. 6.
- Holloway, John E., and H. E. Burwell, Milford, Conn. Combined brush and supply-holder. No. 1,400,954; Dec. 20.
- Hollowell, Benjamin, deceased, by Edna E. Von Stein, administratrix, Chester, W. Va. Agricultural tractor. No. 1,389,552; Aug. 30; v. 289; p. 947.
- Hollowood, Mathew J., Rochester, N. Y. Receptacle for bacterial cultures. No. 1,389,659; Sept. 6; v. 290; p. 20.
- Holly, Charles, Weimar, Tex. Digging-machine. No. 1,373,815; Apr. 5; v. 285; p. 85.
- Holly, Leslie, Toledo, Ohio, assignor to P. Kuenz, Jackson, Mich. Radiator-core. No. 1,368,202; Feb. 8; v. 283; p. 315.
- Holm, Hans T., Karlstad, Sweden. Wet-barking machine. No. 1,386,930; Aug. 9; v. 289; p. 264.
- Holm, Jens S., Cedar Falls, Iowa. Adjustable tabular device. No. 1,396,113; Nov. 8.
- Holm, Sven N., Dorchester, Mass. Thermal mixture-fixture. No. 1,381,922; June 21; v. 287; p. 415.
- Holm, Sven N., Dorchester, Mass. Mixing-valve. No. 1,384,132; July 12; v. 288; p. 231.
- Holman, James A., Salida, Colo. Coffee-urn. No. 1,385,453; July 26; v. 288; p. 660.
- Holman, Ralph H., Stoneham, and J. MacGregor, Roslindale, Mass. Searchlight. No. 1,382,728; June 28; v. 287; p. 622.
- Holman, Vasser C., Nixon, Tex. Spittoon. No. 1,395,185; Oct. 25.
- Holmberg, Axel, South Ecklin, via Terang, Victoria, Australia. Portable power-driven crosscut-saw. No. 1,400,064; Dec. 13.
- Holmberg, John A., Lindsborg, Kans. Steam-trap for vapor-heating systems. No. 1,373,072; Mar. 29; v. 284; p. 844.
- Holme, Edward D., St. Joseph, Mo. Osteopathic-treatment table. No. 1,400,546; Dec. 20.
- Holmes, Albert H., Natick, Mass. Garment-supporter. No. 1,389,304; Aug. 30; v. 289; p. 898.
- Holmes, Andrew J., Tacoma, Wash. Electric heater. No. 1,391,113; Sept. 20; v. 290; p. 467.
- Holmes, Arthur, Canton, Ohio. Manifold. No. 1,375,909; Apr. 26; v. 285; p. 623.
- Holmes, Arthur, assignor to The Holmes Automobile Company, Canton, Ohio. Manifold. No. 1,375,910; Apr. 26; v. 285; p. 623.
- Holmes Automobile Company, The. (See Holmes, Arthur, assignor.)
- Holmes, Bradford B., U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Floating piston for recoil mechanism. No. 1,369,279; Feb. 22; v. 283; p. 279.
- Holmes, Bradford B., U. S. Army, assignor to N. D. Baker, Secretary of War, United States of America, trustee. Recoil mechanism for guns. No. 1,396,114; Nov. 8.
- Holmes, Charles H. (See Minton, C. J., and Holmes.)
- Holmes, David R., and N. H. Campbell, Hutchinson, Kans. Windmill. No. 1,374,659; Apr. 12; v. 285; p. 289.
- Holmes, Edward. (See Lightner, A. D., and Holmes.)
- Holmes, Edward, assignor to The Willys-Overland Company, Toledo, Ohio. Decking system. No. 1,390,439; Sept. 13; v. 290; p. 268.
- Holmes, Edward L., Berkeley, Calif. Phonograph. No. 1,391,543; Sept. 20; v. 290; p. 554.
- Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Lay-sword. No. 1,377,834; May 10; v. 286; p. 335.
- Home Electric Lighting Company. (See Ferguson, Charles H., assignor.)
- Holmes, Ernest D., Athens, Ga. Automatic stop for milking-machines. No. 1,385,049; July 19; v. 288; p. 501.
- Holmes, Ernest H., Point Pleasant, W. Va. Steam-engine valve. No. 1,376,093; Apr. 26; v. 285; p. 658.
- Holmes, Ferdinand M., Everett, Mass. Bookkeeping apparatus and the like. No. 1,389,872; Sept. 6; v. 290; p. 63.
- Holmes, Frank A., Waterloo, Iowa. Disassemblable bathing apparatus. No. 1,386,176; Aug. 2; v. 289; p. 43.
- Holmes, Frank D., and W. H. Trick, Detroit, Mich. Knitting-machine. No. 1,388,341; Aug. 23; v. 289; p. 653.
- Holmes, George A., Newton Center, assignor to F. Joy, Winchester, Mass. Turnbutton-fastener. No. 1,375,756; Apr. 26; v. 285; p. 593.
- Holmes, George A., Newton Center, assignor to F. Joy, Winchester, Mass. Snap-fastener. No. 1,376,389; Apr. 26; v. 285; p. 714.
- Holmes, George A., Newton Center, Mass., assignor to United States Fastener Company. Stud for snap-fasteners. No. 1,389,758; Sept. 6; v. 290; p. 40.
- Holmes, George W., Vincent, Ala. Harrow. No. 1,382,977; June 28; v. 287; p. 669.
- Holmes, Gwyllyn R., and W. J. Wisch, Baltimore, Md. Nut-lock. No. 1,397,252; Nov. 15.
- Holmes, Gwyllyn R., and W. J. Wisch, assignor to The Bull Dog Lock Washer Co., Baltimore, Md. Nut-lock. No. 1,378,116; May 17; v. 286; p. 441.
- Holmes, Harleigh R., Denver, Colo. Power transmission for wheels. No. 1,377,131; May 3; v. 286; p. 143.
- Holmes, Harold S., Worcester, Mass. Grinding compound. No. 1,380,382; June 7; v. 287; p. 11.
- Holmes, Henry S., Brooklyn, N. Y. Machine for cutting off fins from electrically-welded work. No. 1,382,193; June 21; v. 287; p. 465.
- Holmes, Howard R., Montrose, Iowa. Corn-harvester. No. 1,401,781; Dec. 27.
- Holmes, John E. C., Ottawa, Ontario, Canada. Skeefitting. No. 1,372,752; Mar. 29; v. 284; p. 780.
- Holmes, John E. C., Ottawa, Ontario, Canada. Electric heater. No. 1,401,472; Dec. 27.
- Holmes, John T. (See Jordan, V., and Holmes.)
- Holmes, Mary J. (See Horne, Carl R., assignor.)
- Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine truck. No. 1,369,175; Feb. 22; v. 283; p. 591.
- Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,377,132; May 3; v. 286; p. 143.
- Holmes, Morris P., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine truck. No. 1,378,809; May 17; v. 286; p. 574.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,810; May 17; v. 286; p. 574.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,811; May 17; v. 286; p. 574.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,812; May 17; v. 286; p. 574.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining-machine. No. 1,378,813; May 17; v. 286; p. 574.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,814; May 17; v. 286; p. 575.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,815; May 17; v. 283; p. 575.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,816; May 17; v. 286; p. 575.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,817; May 17; v. 286; p. 575.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,818; May 17; v. 286; p. 575.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Truck. No. 1,378,819; May 17; v. 286; p. 575.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Wheel. No. 1,387,398; Aug. 9; v. 289; p. 357.
- Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining-machine. No. 1,395,996; Nov. 1.
- Holmes, Rudolph, and A. O. Abbott, Jr., Detroit, Mich., assignor to Morgan & Wright. Method and apparatus for cutting plastic material. No. 1,379,627; May 31; v. 286; p. 876.
- Holmes, Thomas C., San Francisco, Calif. Powder-blower. No. 1,400,162; Dec. 13.
- Holmes, Thomas E., Glasgow, Scotland. Controlling-gear for hydraulic presses. No. 1,381,834; June 14; v. 287; p. 338.
- Holmes, Thomas J., Chicago, Ill. Car journal-box. No. 1,367,740; Feb. 8; v. 283; p. 227.
- Holmes, Thomas J., Chicago, Ill. Car-journal lubricator. No. 1,367,741; Feb. 8; v. 283; p. 227.
- Holmes, Walter G. (See Knapp, K. W., and Holmes.)



*Alphabetical list of patentees—Continued.*

- Holmes, Watson W., Austin, Tex. Crude-oil burner. No. 1,381,825; June 14; v. 287; p. 338.
- Holmgren, Julius H., San Antonio, Tex. Bending-machine and bending. No. 1,372,816; Mar. 29; v. 284; p. 793.
- Holmgren, Julius H., San Antonio, Tex. Casting the hulls of ships from concrete and floating said hulls into a launching-bay. No. 1,383,117; June 28; v. 287; p. 695.
- Holmgren, Julius H., San Antonio, Tex. Mold for casting the hulls of concrete ships. No. 1,383,118; June 28; v. 287; p. 695.
- Holmgren, Per F., Brooklyn, N. Y. Angular drill. No. 1,387,600; Aug. 16; v. 289; p. 449.
- Holmgren, Swan, Milltown, Wis. Skee attachment. No. 1,367,185; Feb. 1; v. 283; p. 60.
- Holmgren, Victor, Portland, Oreg. Life-saving apparatus. No. 1,365,244; Jan. 11; v. 282; p. 275.
- Holmquest, Herman F., Brooklyn, N. Y. Two-cycle explosive engine. No. 1,370,586; Mar. 8; v. 284; p. 203.
- Holmquist, John A., Woodlawn, Pa. Reel. No. 1,375,844; Apr. 26; v. 285; p. 610.
- Holmquist, John A., Woodlawn, Pa. Wire-fence machine. No. 1,378,955; May 24; v. 286; p. 674.
- Holmquist, John A., Woodlawn, Pa. Take-up reel for wire-fence machines. No. 1,378,956; May 24; v. 286; p. 674.
- Holmquist, John A., Woodlawn, Pa. Crimping-drum for wire-fence machines. No. 1,378,957; May 24; v. 286; p. 674.
- Holmquist, John A., Woodlawn, Pa. Wire-fence machine. No. 1,378,958; May 24; v. 286; p. 675.
- Holmquist, Sven A., Tacoma, Wash. Cabinet-maker's clamp. No. 1,397,961; Nov. 22.
- Holmquist-Swanson Company, The. (See Swanson, Axel W., assignor.)
- Holmström, Axel, Wigbyholm, Sweden. Sprayer paddle-wheel. No. 1,391,057; Sept. 20; v. 290; p. 456.
- Holmstrom, Carl G., Washington, D. C. Apparatus for massage and therapeutic gymnastic treatments. No. 1,400,547; Dec. 20.
- Holophane Glass Co. (See Dailey, Edward J., Jr., assignor.)
- Holoubek, Joseph. (See Mesek, John F., assignor.)
- Holscher, Johan D., Nørregade, Rødby, and J. Hölmark, Copenhagen, Denmark. Benzene-heated stove. No. 1,367,476; Feb. 1; v. 283; p. 118.
- Holsclaw, Marion B. (See Price, Erie M., assignor.)
- Holslag, Claude J., South Orange, N. J. Means for electric arc welding, cutting, and the like. No. 1,371,094; Mar. 8; v. 284; p. 300.
- Holste, August, Bielefeld, Germany. Shirt with removable bosom. No. 1,399,255; Dec. 6.
- Holste, August, Bielefeld, Germany. Shirt. No. 1,399,256; Dec. 6.
- Holt, Annon W., Menomonie, Wis. Door-latch. No. 1,387,888; Aug. 16; v. 289; p. 506.
- Holt, Benjamin, assignor to The Holt Manufacturing Company, Stockton, Calif. Upper-run support for chain-tracks. No. 1,394,995; Oct. 25.
- Holt, Clarence E., Ada, Okla. Flying-machine. No. 1,370,445; Mar. 1; v. 284; p. 131.
- Holt, Clarence E., Henryetta, Okla. Air-engine for flying-machines. No. 1,371,204; Mar. 8; v. 284; p. 320.
- Holt, Francis A. (See Hazlett, C. W., and Holt.)
- Holt, Isabel de A. (See Fisher, R. J. D., and Holt.)
- Holt, Isaac E., Seattle, Wash. Display-frame. No. 1,378,458; May 17; v. 286; p. 506.
- Holt, J. A. R. (See Matson, Edgar C., assignor.)
- Holt, Josephine L., Portland, Oreg. Abdominal supporter. No. 1,379,101; May 24; v. 286; p. 701.
- Holt Manufacturing Company, The. (See Ball, Charles F., assignor.)
- Holt Manufacturing Company, The. (See Best, Clarence L., assignor.)
- Holt Manufacturing Company, The. (See Holt, Benjamin, assignor.)
- Holt Manufacturing Company, The. (See Holt, Pliny E., assignor.)
- Holt Manufacturing Company, The. (See Norelius, Emil F., assignor.)
- Holt Manufacturing Company, The. (See Turnbull, W., and Norelius, assignors.)
- Holt Manufacturing Company, The. (See Turnbull, William, assignor.)
- Holt Manufacturing Company, The. (See Whitnall, Clarence A., assignor.)
- Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)
- Holt, Marx, Chicago, Ill. Tabular subfiling folder. No. 1,378,959; May 24; v. 286; p. 675.
- Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Armored tractor. No. 1,365,402; Jan. 11; v. 282; p. 305.
- Holt, Pliny E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-truck construction. No. 1,394,996; Oct. 25.
- Holt, Samuel E., Rhinebeck, N. Y. Work-support for grinders. No. 1,394,014; Oct. 18.
- Holt, Thomas W. (See Morrison, J. W., and Holt.)
- Holt, William, assignor of one-half to Brolt Limited, Birmingham, England. Engine-starter. No. 1,373,330; Mar. 29; v. 284; p. 896.
- Holt, William, assignor of one-half to Brolt Limited, Birmingham, England. Self-regulating dynamo-electric machine. No. 1,377,074; May 3; v. 286; p. 133.
- Holtham, Samuel J., New Toronto, Ontario, Canada, assignor to J. S. A. Whealy, Toronto, Canada. Paper-bag-printing machine. No. 1,368,258; Feb. 15; v. 283; p. 374.
- Holthaus, George, assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Method of and means for assembling sifter-top members for cans. No. 1,394,623; Oct. 25.
- Holton Tractor Company. (See Dittbrenner, John C., assignor.)
- Holtorp, Wilhelm, Hamburg, Germany. Means for lubricating bearings. No. 1,376,094; Apr. 26; v. 285; p. 658.
- Holtorp, Wilhelm, Hamburg, Germany. Circulating lubrication. No. 1,397,050; Nov. 15.
- Holtschneider, Leo G., Jefferson City, Mo. Humidifier. No. 1,380,208; May 31; v. 286; p. 984.
- Holtzer-Cabot Electric Company, The. (See Kennedy, Carlton L., assignor.)
- Holtzman, Frank P., Columbus, Ohio. Knockdown furniture. No. 1,372,072; Mar. 22; v. 284; p. 608.
- Holub-Dusha Co. (See Dusha, P. F., and Feyk, assignors.)
- Holway, Raymond F., Oakland, Calif. Container and protector for roll-roofing. No. 1,365,403; Jan. 11; v. 282; p. 305.
- Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive. No. 1,384,466; July 12; v. 288; p. 300.
- Holybee, Charles F., Hotchkiss, Colo. Chain-fastener. No. 1,398,099; Nov. 22.
- Holyoke Plush Company. (See Wood, William A., assignor.)
- Holzapel, Albert C., New York, N. Y. Surface-coating composition. No. 1,379,018; May 24; v. 286; p. 686.
- Holzapel, Albert C., New York, N. Y. Surface-coating composition. No. 1,379,019; May 24; v. 286; p. 686.
- Holzapel, Albert C., New York, N. Y. Paint. No. 1,393,220; Oct. 11.
- Holzschuh, Simon P., Paulsboro, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company. Weighing-scale. No. 1,367,144; Feb. 1; v. 283; p. 52.
- Homan & Company. (See Dillman, Joseph, assignor.)
- Homan, John G., assignor to Electrothermal Company, Steubenville, Ohio. Dilator. No. 1,381,194; June 14; v. 287; p. 219.
- Homan, John G., assignor to Electrothermal Company, Steubenville, Ohio. Bandage. No. 1,384,467; July 12; v. 288; p. 300.
- Homan, Louis V., South Dartmouth, Mass. Apparatus for operating gates, &c. No. 1,386,112; Aug. 2; v. 289; p. 30.
- Homan, Ralph C., Chino, Calif. Watch-charm. No. 1,385,454; July 26; v. 288; p. 660.
- Homans, Thomas S., Hempstead, assignor to Intertype Corporation, Brooklyn, N. Y. Magazine-shifting mechanism for typographical machines. No. 1,368,932; Feb. 15; v. 283; p. 505.
- Hombberger, Heinrich, Mill Valley, Calif. Oil-ring. No. 1,386,931; Aug. 9; v. 289; p. 264.
- Home-Crest Mills Corporation. (See Stairs, James H., assignor.)
- Homer, Charles H. (See Bostick, J. W., and Homer.)
- Homer Commutator Company, The. (See Grob, A., Keck, and Baird, assignors.)
- Homer, Joseph, Boston, Mass. Dental cusp. No. 1,367,477; Feb. 1; v. 283; p. 118.
- Homer, Joseph, Boston, Mass. Dental articulator. No. 1,377,075; May 3; v. 286; p. 133.
- Homers, Harry P., New Haven, Conn. Window-sash. No. 1,379,304; May 24; v. 286; p. 740.
- Hommel, Oscar, Pittsburgh, Pa. Ornamenting and protecting metal surfaces. No. 1,370,967; Mar. 8; v. 284; p. 275.
- Homrighous, John H., Oak Park, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,378,231; May 17; v. 286; p. 463.
- Homstad, Elias S., Caspar, Wyo. Reciprocating saw. No. 1,367,260; Feb. 1; v. 283; p. 75.
- Homewood, Fred A., Glendo, Wyo. Spark-plug. No. 1,397,634; Nov. 22.
- Honald, Gottlob. (See Kratz, F., and Honald.)
- Honbaum, Willard, Detroit, Mich. Gas-range top. No. 1,366,659; Jan. 25; v. 282; p. 635.
- Honda, Chikakiyo, Tokyo, Japan. Making paving material from tarry matter. No. 1,386,932; Aug. 9; v. 289; p. 265.
- Honen, James T., assignor to The Grabler Manufacturing Company, Cleveland, Ohio. Coupling. No. 1,382,303; July 5; v. 288; p. 9.
- Hones, Charles A., Rosedale, N. Y. Automatic blast soldering-furnace. No. 1,381,836; June 14; v. 287; p. 339.
- Honold, Gottlob, Stuttgart, Germany, assignor to Firm of Robert Rosch Aktiengesellschaft, Stuttgart, Germany. Battery ignition for internal-combustion engines. No. 1,377,482; May 10; v. 286; p. 268.
- Hons, Henry F., Jr., San Francisco, Calif. Transmission-band. No. 1,378,459; May 17; v. 286; p. 506.



*Alphabetical list of patentees—Continued.*

- Honsinger, Charles A., Detroit, Mich. Reversible tread member for wheels. No. 1,369,972; Mar. 1; v. 284; p. 42.
- Honsinger, Ornan A., Tacoma, Wash. Folding davenport-bed. No. 1,397,962; Nov. 22.
- Honsinger, Ornan A., Tacoma, Wash. Davenport-back. No. 1,397,963; Nov. 22.
- Hood, Arthur M., Indianapolis, Ind., assignor, by mesne assignments, to Wirebonds Patents Company. Wire-bound coop. No. 1,383,119; June 28; v. 287; p. 695.
- Hood, Arthur N., Newton, J. T. Nightingale, Boston, Mass., F. R. Leland and T. W. Dike, assignors to Laminated Materials Company, Limited, New Westminster, British Columbia, Canada. Making Plywood. No. 1,369,743; Feb. 22; v. 283; p. 703.
- Hood, Ernest K., deceased, Indianapolis, Ind.; H. H. Hood, administratrix, assignor to American Slicing Machine Company, Chicago, Ill. Slicing-machine. No. 1,372,023; Mar. 22; v. 284; p. 599.
- Hood, Ernest K., Indianapolis, Ind., and W. B. Wolff, assignors to The American Slicing Machine Co., Chicago, Ill. Operating mechanism for slicing-machines. No. 1,391,320; Sept. 20; v. 290; p. 510.
- Hood, Eugene J. (See Hood, William J., and E. J.)
- Hood, Ernest H., administratrix. (See Hood, Ernest K.)
- Hood, Harrison H., Chicago, Ill. Universal joint. No. 1,376,437; May 3; v. 286; p. 12.
- Hood, Harrison H., Battle Creek, Mich. Can-double-seaming machine. No. 1,396,433; Nov. 8.
- Hood, Houston P., San Francisco, Calif. Shock-absorber. No. 1,358,872; July 26; v. 288; p. 745.
- Hood, James J., assignor of 25 per cent to T. H. Saxon, Ponder, Ga. Water-motor. No. 1,370,539; Mar. 8; v. 284; p. 194.
- Hood, James M., Ranger, Tex. Sand-trap. No. 1,388,040; Aug. 16; v. 289; p. 535.
- Hood, John H., Philadelphia, Pa. Toy pistol. No. 1,376,544; May 3; v. 286; p. 31.
- Hood, Lazarus S., assignor, by mesne assignments, to E. B. Ogden, Philadelphia, Pa. Tool-handle. No. 1,376,811; May 3; v. 286; p. 82.
- Hood Rubber Company. (See Blanchard, Raymond H., assignor.)
- Hood Tractor Company. (See Lind, Theodore E., assignor.)
- Hood, William J., and E. J., Toledo, Ohio. Magnetic screwdriver. No. 1,378,032; May 17; v. 286; p. 425.
- Hood, Willis F., Highland Park, Mich. Combination weight and spatula holder. No. 1,388,260; Aug. 23; v. 289; p. 636.
- Hoodwin, Joseph W., Chicago, Ill. Sales device. No. 1,374,660; Apr. 12; v. 285; p. 289.
- Hooper, Charles F., Seattle, Wash. Electric lubricator for lubricating the valves and cylinders of steam-engines or other bearings which may require oil. No. 1,372,881; Mar. 29; v. 284; p. 807.
- Hooper, Charles F., Seattle, Wash. Electric operating means for flange-oilers. No. 1,389,247; Aug. 30; v. 289; p. 886.
- Hooper, Charles F., Chicago, Ill. Pneumatic control for lubricators. No. 1,401,473; Dec. 27.
- Hoofnagle, William T., Bloomfield, N. J., assignor to Electro Chemical Products Company, Brooklyn, N. Y. Method of and apparatus for treating air and gases electrically. No. 1,388,112; Aug. 16; v. 289; p. 550.
- Hoogendijk, Frederik V., Berkeley, Calif. Internal-combustion-engine construction. No. 1,400,746; Dec. 20.
- Hook, Benton A. (See Strohmaier, E. A., and Hook.)
- Hook, Henry C., assignor, by mesne assignments, to Norton Company, Worcester, Mass. Second-operation chuck. No. 1,374,083; Apr. 5; v. 285; p. 137.
- Hook, Thomas W., San Antonio, Tex. Union-garment. No. 1,368,800; Feb. 15; v. 283; p. 480.
- Hooke, Arthur E., Birmingham, England. Power driving mechanism for canal and other barges. No. 1,385,130; July 19; v. 288; p. 519.
- Hooker, Albert H., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Electrolysis of solutions and apparatus therefor. No. 1,388,466; Aug. 23; v. 289; p. 679.
- Hooker, Charles J., and B. Roberts, Fort Lupton, Colo. Bean-snipping machine. No. 1,385,550; July 26; v. 288; p. 680.
- Hooker, Edwin R., and E. C. Kausrud, Los Angeles, Calif. Automatic tire-gage. No. 1,377,582; May 10; v. 286; p. 285.
- Hooker Electrochemical Company. (See Babcock, Jesse H., assignor.)
- Hooker Electrochemical Company. (See Hooker, Albert H., assignor.)
- Hooker Electrochemical Company. (See Lyster, T. L. B., and Stuart, assignors.)
- Hooker Electrochemical Company. (See Ralston, Oliver C., assignor.)
- Hooker Electrochemical Company. (See Udy, M. J., and Ralston, assignors.)
- Hooker, George W., assignor of one-half to A. Krohn, North Little Rock, Ark. Boiler-flue turner and beader. No. 1,365,915; Jan. 18; v. 282; p. 445.
- Hooker, Leslie E., Lowell, Mass. Making cartridge-shells and blanks therefor. No. 1,368,725; Feb. 15; v. 283; p. 466.
- Hooker, Ray O., Utica, Kans. Machine-gun. No. 1,391,252; Sept. 20; v. 290; p. 495.
- Hooper, Stanton C., and G. H. Clark, Washington, D. C. Radio-receiving antenna. No. 1,379,262; May 24; v. 286; p. 732.
- Hooper, Garfield L., Topeka, Kans. Apparatus for cooling air. No. 1,369,812; Mar. 1; v. 284; p. 11.
- Hooper, Harris G., Los Angeles, Calif. Flying-machine. No. 1,397,761; Nov. 22.
- Hooper, James P. (See Conley, A. D., and Stillwell, assignors.)
- Hooper, Thomas. (See Horgan, James P., assignor.)
- Hoopes, Russell, West Chester, Pa. Wheel. No. 1,384,194; July 12; v. 288; p. 243.
- Hoopes, William, assignor to Aluminum Company of America, Pittsburgh, Pa. Apparatus for calcining carbon for electrodes. No. 1,366,457; Jan. 25; v. 282; p. 595.
- Hoopes, William, assignor to Aluminum Company of America, Pittsburgh, Pa. Calcining carbon for electrodes. No. 1,366,458; Jan. 25; v. 282; p. 595.
- Hoopes, William, assignor to Aluminum Company of America, Pittsburgh, Pa. Making aluminum nitrid and other chemical substances. No. 1,393,370; Oct. 11.
- Hoopes, William, assignor to Aluminum Company of America, Pittsburgh, Pa. Apparatus for making aluminum nitrid and other chemical substances. No. 1,393,371; Oct. 11.
- Hoopes, William, assignor to Aluminum Company of America, Pittsburgh, Pa. Making aluminum nitrid and other chemical substances. No. 1,393,372; Oct. 11.
- Hoopes, William, assignor to Aluminum Company of America, Pittsburgh, Pa. Electrical resistor. No. 1,393,373; Oct. 11.
- Hoopingartner, Ralph T. (See Bailey, R. F., and Hoopingartner.)
- Hoornbeck, Lodewyck, Newark, N. J., assignor to J. J. Fields, 3d, New York, N. Y. Electrodeposition of non-metallic bodies. No. 1,384,018; July 5; v. 288; p. 158.
- Hoos, Nannie T., et al. (See Gallagher, George D., assignor.) (Reissue.)
- Hooven and Allison Co. (See Manss, Harvey M., assignor.)
- Hoover, Alex, Bellefourche, S. D. Phonographic reproducer. No. 1,390,558; Sept. 13; v. 290; p. 292.
- Hoover, Benjamin J., Meridian, Miss. Safety appliance. No. 1,369,893; Mar. 1; v. 284; p. 26.
- Hoover, Edgar B., assignor of one-third to J. W. Imlay, Walla Walla, Wash. Ore-separator. No. 1,366,660; Jan. 25; v. 282; p. 635.
- Hoover, Frank K. (See Hettelsater, H. C., and Scott, assignors.)
- Hoover, George D., Des Moines, Iowa. Carbon-remover. No. 1,386,337; Aug. 2; v. 289; p. 75.
- Hoover, Harry J., Norwood, Ohio. Incinerator attachment for gas-stoves. No. 1,388,521; Aug. 23; v. 289; p. 688.
- Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Suction-sweeper. No. 1,364,554; Jan. 4; v. 282; p. 98.
- Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Suction-cleaner. No. 1,364,761; Jan. 4; v. 282; p. 138.
- Hoover, Howard E., Chicago, Ill., assignor to Hoover Suction Sweeper Company, North Canton, Ohio. Cleaning device for suction-sweepers. No. 1,372,622; Mar. 22; v. 284; p. 713.
- Hoover, Howard E., Chicago, Ill., assignor to The Hoover Suction Sweeper Company, New Berlin, Ohio. Bag for suction-sweepers. No. 1,380,907; June 7; v. 287; p. 112.
- Hoover, Orville L. M., Dallas, Tex. Liquid or gaseous fuel burning furnace. No. 1,370,446; Mar. 1; v. 284; p. 131.
- Hoover Spring Company. (See Beck, Sydney A., assignor.)
- Hoover Suction Sweeper Company, The. (See Dillin, Dudley F., assignor.)
- Hoover Suction Sweeper Company. (See Hoover, Howard E., assignor.)
- Hoover Suction Sweeper Company, The. (See Staples, Albert F., assignor.)
- Hoover, Thomas A., Fresno, Calif., assignor to American Chain Company, Inc. Automobile-bumper. No. 1,388,432; Aug. 23; v. 289; p. 672.
- Hoover, Thomas A., Fresno, Calif., assignor to American Chain Company, Inc. Clamp for attaching buffers to vehicles. No. 1,397,213; Nov. 15.
- Hooymann, Leonard A. M., Passaic, N. J. Hanger. No. 1,382,509; June 21; v. 287; p. 526.
- Hopaidaszka, Frederick, Cobalt, Ontario, Canada. Table. No. 1,381,837; June 14; v. 287; p. 339.
- Hope, George. (See Dutcher, R. O., and Hope.)
- Hope, John A., Montreal, Quebec, Canada. Journal-box jack. No. 1,369,432; Feb. 22; v. 283; p. 641.
- Hope, William J., Tunica, Miss. Combined brush and comb. No. 1,370,649; Mar. 8; v. 284; p. 215.
- Hopedale Manufacturing Company. (See Northrop, Jonas, assignor.)
- Hopedale Manufacturing Company. (See Tempest, William, assignor.)
- Hopkins, Andrew J., Kaufman, Tex. Cotton-tramper. No. 1,388,715; Aug. 23; v. 289; p. 725.
- Hopkins, Arthur C., Minneapolis, Minn. Jack. No. 1,389,358; Aug. 30; v. 289; p. 909.



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- Hopkins, Cecil B., San Francisco, Calif. Concrete-form. No. 1,379,820; May 31; v. 286; p. 911.
- Hopkins, Edward P., assignor to The Publisher's Utilities Co., New York, N. Y. Tension device. No. 1,388,842; Aug. 23; v. 289; p. 653.
- Hopkins, Gordon A., Bradford, Pa. Clothesline-holder. No. 1,397,051; Nov. 15.
- Hopkins, Harvey L., Chicago, Ill., assignor of one-third to G. A. Smith, Marshalltown, Iowa, and one-third to G. E. Gibeault, Chicago, Ill. Power-operated vacuum massage apparatus. No. 1,364,500; Jan. 4; v. 282; p. 88.
- Hopkins, Harvey L., Chicago, Ill., assignor of one-third to G. A. Smith, Marshalltown, Iowa, and one-third to G. E. Gibeault, Chicago, Ill. Hyperemia apparatus. No. 1,364,501; Jan. 4; v. 282; p. 88.
- Hopkins, Hubert, assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Calculating-machine. No. 1,366,566; Jan. 25; v. 282; p. 617.
- Hopkins, Hubert J., San Francisco, Calif. Ladder-raising device. No. 1,394,498; Oct. 18.
- Hopkins, John C., Cedar Rapids, Iowa. Street-car signal. No. 1,378,790; May 17; v. 286; p. 570.
- Hopkins, Luther S. (See Schmidt, O. M., and Hopkins.)
- Hopkins, Marcus C., Chevy Chase, D. C. Vibration-transmission connection for talking-machines. No. 1,390,206; Sept. 6; v. 290; p. 130.
- Hopkins, Marcus C., Falls Church, Va., assignor of one-half to F. L. Dyer, Montclair, N. J. Photosculpture. No. 1,382,978; June 28; v. 287; p. 669.
- Hopkins, Mark A., Brooklyn, N. Y. Dish-washing machine. No. 1,398,022; Nov. 22.
- Hopkins, Mathew. (See Kirby, J., Hopkins, and Bernhart.)
- Hopkins, Nevil M., Washington, D. C. Antiskid device. No. 1,380,964; June 7; v. 287; p. 123.
- Hopkins, Orson, Argusville, N. Y. Wheel-tire. No. 1,371,095; Mar. 8; v. 284; p. 300.
- Hopkins, Peter J. (See La Mar, F. C., and Hopkins.)
- Hopkins, Richard M. (See Johnson, C. C., and Hopkins.)
- Hopkins, Richard M., New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Contact device for valve supervisory systems. No. 1,371,993; Mar. 15; v. 284; p. 536.
- Hopkins, Richard M., New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Signaling device. No. 1,387,399; Aug. 9; v. 289; p. 357.
- Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Key device for register. No. 1,394,831; Oct. 25.
- Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Watchman's registry system. No. 1,394,832; Oct. 25.
- Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Key device. No. 1,394,833; Oct. 25.
- Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Registry system and register therefor. No. 1,394,834; Oct. 25.
- Hopkins, Richard M., Rutherford, N. J., assignor to American District Telegraph Company, New York, N. Y. Supervisory signaling system. No. 1,395,826; Nov. 1.
- Hopkins, Richard M., Rutherford, N. J., assignor to American District Telegraph Company, New York, N. Y. Electric signal. No. 1,397,421; Nov. 15.
- Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Alarm system. No. 1,398,593; Nov. 29.
- Hopkins, Richard M., Rutherford, assignor to American District Telegraph Company, Jersey City, N. J. Transmitter. No. 1,398,594; Nov. 29.
- Hopkins, Roy S. (See Frederick, C. W., and Hopkins.)
- Hopkins, Truman P., Seattle, Wash. Combined table and chair. No. 1,369,661; Feb. 22; v. 283; p. 686.
- Hopkins, William W., assignor to Moon-Hopkins Billing Machine Company, St. Louis, Mo. Calculating-machine. No. 1,367,877; Feb. 8; v. 283; p. 254.
- Hopkinson, Ernest. (See Dykes, John L. G., assignor.)
- Hopkinson, Ernest, New York, N. Y. Making motor-vehicle tires. No. 1,374,505; Apr. 12; v. 285; p. 259.
- Hopkinson, Ernest, New York, N. Y. Device for obtaining quantities of molten glass. No. 1,378,460; May 17; v. 286; p. 506.
- Hopkinson, Joseph, assignor to The Computing Scale Company, Dayton, Ohio. Clamp for meat-slicing machines. No. 1,366,658; Jan. 25; v. 282; p. 635.
- Hopp, Hermann. (See Hopp, Leo and H.)
- Hopp, Leo and H., New York, N. Y. Price-ticket holder. No. 1,398,782; Nov. 29.
- Hoppe, Herbert P., St. Louis, Mo. Safety-signals for street-cars. No. 1,389,660; Sept. 6; v. 290; p. 21.
- Hopper, Charles, Los Angeles, Calif. Inlay for repair of scored engine-cylinders and making same. No. 1,397,167; Nov. 15.
- Hopping, Charles O., Long Beach, Calif. Making puncture-closing composition. No. 1,375,510; Apr. 19; v. 285; p. 515.
- Hopson, Arthur A., Tiptonville, Tenn. Backband-hook. No. 1,375,911; Apr. 26; v. 285; p. 623.
- Hopwood, John M., Dormont, Pa. Method of and means for regulating movement. No. 1,371,242; Mar. 15; v. 284; p. 390.
- Hopwood, John M., Dormont, Pa. Method and means for regulating or controlling mechanism. No. 1,371,243; Mar. 15; v. 284; p. 391.
- Hopwood, John M., Dormont, Pa. Stoking mechanism. No. 1,400,548; Dec. 20.
- Hopwood, John M., Dormont, Pa. Combustion-regulating means. No. 1,400,549; Dec. 20.
- Hopwood, John M., Pittsburgh, Pa. Method and means for controlling and regulating. No. 1,400,550; Dec. 20.
- Hopwood, John M., Dormont, assignor to The Hagan Corporation, Pittsburgh, Pa. Storage-tank. No. 1,400,747; Dec. 20.
- Hopwood, John M., Dormont and T. A. Peebles, assignors to The Hagan Corporation, Pittsburgh, Pa. Blast-nozzle. No. 1,381,306; June 14; v. 287; p. 239.
- Horan, Charles, New York, N. Y. Head-protector. No. 1,375,845; Apr. 26; v. 285; p. 610.
- Horan, George P., Rutland, Vt. Train-stop. No. 1,394,303; Oct. 18.
- Horan, John G., Detroit, Mich. Railway-tie. No. 1,394,731; Oct. 25.
- Horgan, James P., Woburn, Mass., assignor to T. Hooper, New York, N. Y. Oil-gas burner. No. 1,372,695; Mar. 29; v. 284; p. 769.
- Horgan, Patrick J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,388,862; Aug. 30; v. 289; p. 809.
- Horger, Thomas P., Jr., Orangeburg, S. C. Music-holder for band use. No. 1,400,217; Dec. 13.
- Horine, Jarrett W., Milwaukee, Wis. Muffler-cut-out valve. No. 1,384,893; July 19; v. 288; p. 469.
- Horine, Merrill C., assignor to International Motor Company, New York, N. Y. Cushioned seat. No. 1,376,382; Apr. 26; v. 285; p. 714.
- Horine, Merrill C., assignor to International Motor Company, New York, N. Y. Planetary driving gear. No. 1,392,567; Oct. 4.
- Horiuchi, Hirotsuke, Taihoku-Cho, Japan. Furnace for burning liquid fuels and pulverulous coal. No. 1,390,715; Sept. 13; v. 290; p. 323.
- Horlick, Arnold A., Milwaukee, Wis. Beverage material and making same. No. 1,384,894; July 19; v. 288; p. 469.
- Horlicks Malted Milk Company. (See Platz, George A., assignor.)
- Hormes, William T., Govans, assignor to S. Himmel, Baltimore, Md. Display-rack. No. 1,385,375; July 26; v. 288; p. 644.
- Horn, Albert W., Chicago, Ill. Continuous automatic gravity-discharge reheating-furnace. No. 1,380,102; May 31; v. 286; p. 965.
- Horn, Arthur P., Cincinnati, Ohio. Life-boat. No. 1,371,896; Mar. 15; v. 284; p. 518.
- Horn, Charles A., Woodhaven, N. Y., assignor of one-fourth to W. E. Rundle, East Orange, and one-fourth to H. E. Lombard, Bloomfield, N. J. Steam-generator. No. 1,376,812; May 3; v. 286; p. 82.
- Horn, Charles A., Woodhaven, N. Y., assignor of one-fourth to W. E. Rundle, East Orange, and one-fourth to H. E. Lombard, Bloomfield, N. J. Steam-superheater. No. 1,379,409; May 24; v. 286; p. 760.
- Horn, Ella, Rifle, Colo., assignor of forty-nine one-hundredths to A. R. Gwynn, Los Angeles, Calif. Glare-shade for automobiles. No. 1,385,131; July 19; v. 288; p. 519.
- Horn, Ernest H., assignor to Waterbury Clock Co., Waterbury, Conn. Main-wheel unit for timepieces. No. 1,378,866; May 24; v. 286; p. 657.
- Horn, Joseph, West Orange, F. H. May, Montclair, and J. Meilner, West Orange, N. J. Alarm. No. 1,392,568; Oct. 4.
- Horn, William, Oneonta, N. Y. Buckle. No. 1,385,323; July 19; v. 288; p. 557.
- Horn, William, and J. Hagan, Oneonta, assignors to Quality Silk Mills, Inc., New York, N. Y. Glove-pointing machine. No. 1,378,820; May 17; v. 286; p. 576.
- Horn, William H., & Brother, Incorporated. (See Patton, William D., assignor.)
- Hornbeck, Henry S., Union Hill, N. J. Pneumatic pick-up. No. 1,399,483; Dec. 6.
- Hornbeck, Henry S., Union Hill, N. J. Oscillating valve for pneumatic motors. No. 1,400,551; Dec. 20.
- Hornburg, Charles A., Waco, Tex. Steering-gear stabilizer. No. 1,366,459; Jan. 25; v. 282; p. 595.
- Hornburg, Louis A., Omaha, Nebr. Electric lantern. No. 1,391,831; Sept. 27; v. 290; p. 685.
- Horne, Carl R., assignor to M. J. Holmes, Philadelphia, Pa. Nozzle. No. 1,398,133; Nov. 22.
- Horne, James. (See Dawson, A. T., and Horne.)
- Horne Manufacturing Company. (See Haywood, John W., assignor.)
- Horne, Theodore P., Newport News, Va. Aero-propeller efficiency-indicator. No. 1,389,830; Sept. 6; v. 290; p. 54.
- Horner, Albert V., Toronto, Ontario, Canada. Window construction. No. 1,367,970; Feb. 8; v. 283; p. 270.
- Horner, Frank. (See Mann, Benjamin H., assignor.)
- Horner, John H., Enterprise, Oreg. Window construction. No. 1,395,962; Nov. 1.
- Horner, William H., Brooklyn, N. Y. Collapsible support. No. 1,369,662; Feb. 22; v. 283; p. 686.



- Hornlack, John G., Hawley, Pa. Railway-tie. No. 1,397,964; Nov. 22.
- Hornig, Charles E., Jersey City, N. J. Velocipede. No. 1,377,886; May 10; v. 286; p. 345.
- Hornsey, John W., Summit, N. J. Extracting valuable components from raw materials. No. 1,373,731; Apr. 5; v. 285; p. 68.
- Hornsey, John W., Summit, N. J. Recovery of potassium salts from solutions containing the same as well as other salts. No. 1,380,383; June 7; v. 287; p. 11.
- Hornsey, John W., Summit, N. J. Leaching ores and the like. No. 1,398,723; Nov. 29.
- Hornung, Charles G., assignor to Larkin Co., Buffalo, N. Y. Box or container. No. 1,376,939; May 3; v. 286; p. 107.
- Hornung, Charles G., assignor to Larkin Co., Buffalo, N. Y. Holder for semisolid materials. No. 1,391,253; Sept. 20; v. 290; p. 496.
- Horowitz, Barnett, Brooklyn, N. Y. Hat-lining. No. 1,374,737; Apr. 12; v. 285; p. 304.
- Horowitz, David. (See Marinsky, Davis, assignor.)
- Horr, John V., assignor to The International Sign Company, Cleveland, Ohio. Dispensing-carton. No. 1,367,048; Feb. 1; v. 283; p. 33.
- Horr, John V., assignor to The International Sign Company, Cleveland, Ohio. Carton. No. 1,369,924; Mar. 1; v. 284; p. 32.
- Horr, John V., assignor to A. T. Fischer, Cleveland, Ohio. Carton. No. 1,382,979; June 28; v. 287; p. 669.
- Horr, Loren B., State College, N. Mex. Gear-shifting mechanism. No. 1,389,195; Aug. 30; v. 289; p. 876.
- Horridge, James, Bolton, assignor of one-half to J. Hetherington and Sons, Limited, Manchester, England. Comb-ing-machine. No. 1,382,194; June 21; v. 287; p. 465.
- Horsfall, John, Bradford, England. Nut-lock. No. 1,368,151; Feb. 8; v. 283; p. 305.
- Horsley, Peter, Chicago, Ill. Window. No. 1,378,828; May 17; v. 286; p. 577.
- Horspool, Francis L., Salt Lake City, Utah. Rotary engine. No. 1,379,028; May 24; v. 286; p. 688.
- Horst, Simon R., and P. T. Lindsey, Linglestown, Pa. Railway-car brake. No. 1,367,779; Feb. 8; v. 283; p. 235.
- Horstmann, Ernst E., Los Angeles, Calif. Concentrator. No. 1,365,916; Jan. 18; v. 282; p. 446.
- Horstmann, Ernst E., Los Angeles, Calif. Condenser. No. 1,367,743; Feb. 8; v. 283; p. 228.
- Horton, Bryson D., Detroit, Mich. Electrical switch. No. 1,372,140; Mar. 22; v. 284; p. 621.
- Horton, Bryson D., Detroit, Mich. Electrical switch. No. 1,376,813; May 3; v. 286; p. 82.
- Horton, Bryson D., Detroit, Mich. Electrical switch. No. 1,378,232; May 17; v. 286; p. 463.
- Horton, Bryson D., Detroit, Mich. Center stop and outside lock-off for electrical switches. No. 1,383,541; July 5; v. 288; p. 58.
- Horton, Bryson D., Detroit, Mich. Electrical switch. (Reissue.) No. 1,516,9; Aug. 2; v. 289; p. 122.
- Horton, Bryson D., Detroit, Mich. Metal box or receptacle for electrical switches. No. 1,396,434; Nov. 8.
- Horton, Bryson D., Detroit, Mich. Electrical switch. No. 1,400,288; Dec. 13.
- Horton, Bryson D., Detroit, Mich. Quick-break double-throw switch. No. 1,400,360; Dec. 13.
- Horton, Bryson D., Detroit, A. P. Ball, Royal Oak, and F. Zenker, Highland Park, assignors to Detroit Fuse & Mfg. Company, Detroit, Mich. Electrical switch. No. 1,383,808; July 5; v. 288; p. 114.
- Horton, Eugene L., San Francisco, Calif. Automatic air-coupling. No. 1,386,338; Aug. 2; v. 289; p. 75.
- Horton, Frederick H., Birmingham, England. Brooch. No. 1,375,097; Apr. 19; v. 285; p. 436.
- Horton, John T., Brooklyn, N. Y. Sectional boom. No. 1,365,998; Jan. 18; v. 282; p. 461.
- Horton, Joseph W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for detecting under-water vibrations. No. 1,378,960; May 24; v. 286; p. 675.
- Horton, Joseph W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Detecting under-water vibrations. No. 1,381,640; June 14; v. 287; p. 301.
- Horton Manufacturing Company, The. (See Nelson, De Witt, assignor.)
- Horton, Richard W., assignor to Barnett Samuel & Sons Limited, London, England. Talking-machine. No. 1,376,880; May 3; v. 286; p. 96.
- Horton, Walter F. (See Larson, R. G., and Horton.)
- Horton, William M., assignor to The Adams-Ragnall Electric Company, Cleveland, Ohio. Automobile-headlight. No. 1,367,318; Feb. 1; v. 283; p. 86.
- Horvath, Alexander, Farrell, Pa., assignor to Progress Watch and Clock Manufacturing Company. Escapement mechanism. No. 1,372,024; Mar. 22; v. 284; p. 599.
- Horvath, Geza, Highland Park, Mich. Fuel-economizing device. No. 1,377,963; May 10; v. 286; p. 360.
- Horvath, Geza, Highland Park, Mich. Speed-controlling device for vehicles. No. 1,377,964; May 10; v. 286; p. 360.
- Horvath, Geza, assignor to National Can Company, Detroit, Mich. Radiator construction. No. 1,377,965; May 10; v. 286; p. 360.
- Horvath, Geza, Highland Park, Mich. Automatic accelerator and fuel-regulator. No. 1,394,015; Oct. 18.
- Horwich, Bernard. (See Martin, Oliver O., assignor.)
- Horwitz, Paul H. (See La Beck, Louis, assignor.)
- Horwitz, Alexander, New York, N. Y. Sulfonated resin and making the same. No. 1,373,886; Apr. 5; v. 285; p. 99.
- Horwood, John, Hoxton, London, England. Drawing-compasses. No. 1,391,187; Sept. 20; v. 290; p. 482.
- Hosack, Harold H., Twickenham, England. Appliance for casting metal ingots into molds. No. 1,375,589; Apr. 19; v. 285; p. 529.
- Hosceit, William J., assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism. No. 1,388,950; Aug. 30; v. 289; p. 827.
- Hosceit, William J., assignor to Rodger Ballast Car Company, Chicago, Ill. Dump-car. No. 1,389,359; Aug. 30; v. 289; p. 909.
- Hosch, Annie M., administratrix. (See Hosch, W. E., and Turner.)
- Hosch, Greene C., St. Louis, Mo. Presser-roller-releasing device. No. 1,394,554; Oct. 25.
- Hosch, Greene C., St. Louis, Mo. Push-button-controlled shutter. No. 1,396,577; Nov. 8.
- Hosch, Greene C., St. Louis, Mo. Hanger. No. 1,398,519; Nov. 29.
- Hosch, Greene C., assignor to The Measuregraph Company, St. Louis, Mo. Measuring-roller. No. 1,390,956; Sept. 13; v. 290; p. 373.
- Hosch Mechanisms Corporation. (See Turner, Douglas, assignor.)
- Hosch, Walter E., assignor to The Measuregraph Company, St. Louis, Mo. Cloth measuring and computing machine. No. 1,369,663; Feb. 22; v. 283; p. 687.
- Hosch, Walter E., assignor to The Measuregraph Company, St. Louis, Mo. Cloth winding and measuring machine. No. 1,390,957; Sept. 13; v. 290; p. 373.
- Hosch, Walter E., deceased, by A. M. Hosch, administratrix, and Douglas Turner, assignors to Measuregraph Company, St. Louis, Mo. Cloth measuring and computing machine. No. 1,371,028; Mar. 8; v. 284; p. 287.
- Hoschke, Frederick A., Springfield, Mass. Reproducing instrument and associated mechanism. No. 1,373,732; Apr. 5; v. 285; p. 68.
- Hose, Charles E. (See Gordon, John A., assignor.)
- Hose, Titus S., Little Falls, N. Y. Wrench. No. 1,397,214; Nov. 15.
- Hosek, Charles, Floresville, Tex. Liquid-fuel burner. No. 1,392,012; Sept. 27; v. 290; p. 723.
- Hosford, William F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Reeling-machine. No. 1,393,286; Oct. 11.
- Hoskin, William, assignor of one-third to L. L. Richardson, Denver, Colo. Milk-bottle carrier. No. 1,377,350; May 10; v. 286; p. 243.
- Hosking, Charles, Belgravia, Johannesburg, South Africa. Two-wheeled draft-vehicle. No. 1,396,754; Nov. 15.
- Hosking, Charles, and L. L. Hahn, Philadelphia, Pa. Automobile-lock. No. 1,382,729; June 28; v. 287; p. 622.
- Hoskins, Thomas M., Evansville, Ind. Wheel. No. 1,365,404; Jan. 11; v. 282; p. 306.
- Hoskins, William, La Grange, Ill. Making water-resistant paper. No. 1,370,650; Mar. 8; v. 284; p. 215.
- Hoskins, William, Chicago, Ill. Utilization of catalyst masses. No. 1,381,558; June 14; v. 287; p. 286.
- Hoskins, William, Chicago, Ill. Core compound. No. 1,392,013; Sept. 27; v. 290; p. 724.
- Hoskins, William, Chicago, Ill. assignors to The Best Brothers Keene's Cement Company, Medicine Lodge, Kans. Manufacture of Keene's cement. No. 1,370,968; Mar. 8; v. 284; p. 275.
- Hosley, Bert F., Syracuse, N. Y. Non-skid fastening means. No. 1,395,712; Nov. 1.
- Hosner, Ralph B. (See Berta, Felix S., assignor.)
- Hosner, Ralph B., San Francisco, Calif. Sofa-bed. No. 1,398,324; Nov. 29.
- Hostater, Margaret E., Westfield, N. Y. Dish-washing machine. No. 1,393,687; Oct. 11.
- Hostettler, Alexander, Columbus, Ohio. Pasteurizing apparatus. No. 1,367,517; Feb. 1; v. 283; p. 126.
- Hostler, Edgar D., I. J. Hamiel, and C. H. Mather, Tipton, Iowa, assignors of one-half to said Hostler, one-fourth to said Hamiel, and one-fourth to said Mather. Vulcanizer. No. 1,379,447; May 24; v. 286; p. 767.
- Hotchkiss, D. H. (See Rees, Frank W., assignor.)
- Hotchkiss, A. E. (See Hotchkiss, L. A., and Stocum, assignors.)
- Hotchkiss, E. H., Company, The. (See Muth, John, assignor.)
- Hotchkiss, Erastus L., Edinboro, Pa. Extricator-tire for automobiles. No. 1,374,920; Apr. 19; v. 285; p. 401.
- Hotchkiss, Louis A., and P. W. Stocum; said Stocum assignor to A. E. Hotchkiss, Oshkosh, Wis. Axle construction. No. 1,377,685; May 10; v. 286; p. 305.
- Hotchkiss, Raymond M., assignor of one-third to P. S. Matthews and one-third to J. W. Fawcett, New Haven, Conn. Check-valve. No. 1,381,463; June 14; v. 287; p. 268.
- Hotchkiss, Wallace J., Alpena, S. D. Handle. No. 1,379,020; May 24; v. 286; p. 686.
- Hotchkiss, William S., and J. E. W. Sheehan, Memphis, Tenn. Hand-fired furnace. No. 1,397,422; Nov. 15.



## Alphabetical list of patentees—Continued.

- Hotchner, Fred, San Francisco, Calif. Cable-clamp. No. 1,396,115; Nov. 8.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Box. No. 1,380,908; June 7; v. 287; p. 112.
- Hotson, John H., Mount Vernon, N. Y. Attachment for desk-drawers and the like. No. 1,398,023; Nov. 22.
- Hotson-Tait, Isabel, Sydney, New South Wales, Australia. Composition for sealing cans and the like that contain perishable foods. No. 1,386,620; Aug. 9; v. 289; p. 201.
- Hottmann, Charles W., Philadelphia, Pa. Sausage-linking machine. No. 1,366,183; Jan. 18; v. 282; p. 497.
- Hotz, Jacob, Arcadia, Wis. Cow-barn-gutter grate. No. 1,366,384; Jan. 25; v. 282; p. 580.
- Houchin, Joshua R. (See Hartkamp, G. A., and Houchin.)
- Houck, Ezra B., Peoria, Ill. Farm-gate. No. 1,386,113; Aug. 2; v. 289; p. 30.
- Houck, Frank A., Ketchikan, Alaska. Power-gurdy. No. 1,384,895; July 19; v. 288; p. 469.
- Houck, John D., Chicago, Ill. Coffee-making device. No. 1,396,685; Nov. 8.
- Houck, William A., Reading, Pa. Cop-mounting. No. 1,377,416; May 10; v. 286; p. 255.
- Houck, William A., Reading, Pa., assignor to Hemphill Company, Pawtucket, R. I. Knitting mechanism, instrument therefor, and knitting. No. 1,400,163; Dec. 13.
- Houdini, Harry, Brooklyn, N. Y. Diver's suit. No. 1,370,316; Mar. 1; v. 284; p. 106.
- Hough, Azel C., Janesville, Wis. Shade appliance. No. 1,397,215; Nov. 15.
- Hough, Ruth F., Sierra Madre, Calif. Bonnet. No. 1,375,048; Apr. 19; v. 285; p. 427.
- Hough, Samuel, Atco, N. J. Aerial bomb. No. 1,394,902; Oct. 25.
- Hough, Samuel, and W. Lohr, Philadelphia, Pa. Automatic lubricating shackle-bolt. No. 1,393,128; Oct. 11.
- Houghtaling, William, Chappaqua, N. Y. Extension and combination stepladder. No. 1,401,257; Dec. 27.
- Houghton, E. F., & Co. (See Pressell, George W., assignor.)
- Houghton, Lewis T., Worcester, Mass. Tension device and bobbin-support for spoolers. No. 1,364,762; Jan. 4; v. 282; p. 138.
- Houghton, Lewis T., Worcester, Mass. Yarn-tension machine. No. 1,382,730; June 28; v. 287; p. 622.
- Houghton, Myrtle, Thomson, Ill. Milk-receptacle and cream-remover. No. 1,364,763; Jan. 4; v. 282; p. 138.
- Houghton, Roy N. (See Lueky, E. A., and Houghton.)
- Houk, Clifford V., and T. W. Berry, San Diego, Calif.; said Berry assignor of one-third of his right to said Houk. Railway-crossing. No. 1,389,560; Aug. 30; v. 289; p. 948.
- Houle, Edmond, Danvers, Mass. Feed-door for stalls. No. 1,381,559; June 14; v. 287; p. 286.
- Houlehan, Arthur E., assignor to E. I. du Pont de Nemours and company, Wilmington, Del. Manufacture of diphenylamin. No. 1,392,942; Oct. 11.
- Houley, Joseph C., and C. E. Shaw, Chicago, Ill. Phonograph-cabinet. No. 1,378,117; May 17; v. 286; p. 441.
- Houlihan, William J., Prahran, Melbourne, Victoria, Australia. Device for cleansing and polishing the surfaces of floors, walls, windows, and the like. No. 1,399,427; Dec. 6.
- Housdorfer, Reinhold G., Detroit, Mich. Manufacturing axles. No. 1,385,998; Aug. 2; v. 289; p. 7.
- House, Henry A., Jr., Buffalo, assignor to Wire Wheel Corporation of America, New York, N. Y. Painting-booth. No. 1,368,338; Feb. 15; v. 283; p. 390.
- House, Henry A., Jr., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Portable wheel-rack. No. 1,380,802; June 7; v. 287; p. 92.
- House, Henry A., Jr., Buffalo, N. Y., assignor to Wire Wheel Corporation of America. Shaping and truing wire wheels. No. 1,399,770; Dec. 13.
- House, Herbert E., Pasadena, assignor to C. S. Potter and W. T. Potter, Los Angeles, Calif., partners. Kaleidoscope. No. 1,398,858; Nov. 29.
- House, Milus M., Indianapolis, Ind., assignor to The Dentists' Supply Company. Specimen set-up for artificial teeth. No. 1,379,689; May 31; v. 286; p. 887.
- House, Sam J., *et al.*, trustee. (See Fischer, Henry F., assignor.)
- Houseman, Harold E., assignor to Standard Machine Company, Philadelphia, Pa. Safety stopping device for circular-knitting machines. No. 1,364,112; Jan. 4; v. 282; p. 12.
- Houseman, Walter H., and G. Bronson, Highland Park, Mich. Automobile-boat. No. 1,380,319; May 31; v. 286; p. 1005.
- Houser, Orville E., Chillicothe, Ohio. Riveting-machine. No. 1,373,427; Apr. 5; v. 285; p. 9.
- Houston, Lloyd H. (See Kins, Albert L., assignor.)
- Houston, Hugh E., Wichita Falls, Tex. Traction device. No. 1,383,948; July 5; v. 288; p. 143.
- Houston, James D., East Aurora, N. Y. Mechanically-waved flag. No. 1,374,921; Apr. 19; v. 285; p. 401.
- Houston, John D., Prineville, Ore. Cooling system for internal-combustion engines. No. 1,391,188; Sept. 20; v. 290; p. 482.
- Houston, Percival T., assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Internal-combustion engine. No. 1,389,002; Aug. 30; v. 289; p. 838.
- Houston, Robert C., Greenock, Scotland. Battery. No. 1,372,950; Mar. 29; v. 284; p. 821.
- Houston, W. O. (See Seal, Theodore T., assignor.)
- Hovey, Otis E., New York, N. Y. Derrick. No. 1,369,107; Feb. 22; v. 283; p. 579.
- Hovis, Park S., Butler, Pa. Release-joint for well-casings. No. 1,370,447; Mar. 1; v. 284; p. 131.
- Howard, Albert L., Montello, Mass. Support. No. 1,382,783; June 28; v. 287; p. 632.
- Howard, Alden L., Ann Arbor, Mich. Phonograph. No. 1,369,280; Feb. 22; v. 283; p. 612.
- Howard, Alfred A., Waddy, Ky. Planter. No. 1,398,190; Nov. 22.
- Howard, Benjamin W., Newmarket, Ontario, Canada. Vehicle. No. 1,379,567; May 24; v. 286; p. 789.
- Howard, Bloomfield H., Washington, D. C., and E. J. Turner, Pittsburgh, Pa. Feeder for ingot-molds. No. 1,394,415; Oct. 18.
- Howard, C., Hunt Pen Company. (See Hawkes, Lewis A., assignor.)
- Howard, C. N. (See Johnson, Enos H., assignor.)
- Howard, Charles F. (See Blessing, W., Howard, and Pexton.)
- Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Bag-making machine. No. 1,365,494; Jan. 11; v. 282; p. 323.
- Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Paper tube and container. No. 1,383,809; July 5; v. 288; p. 113.
- Howard, Charles O., assignor to The Phelps Manufacturing Company, Columbus, Ohio. Locking means for automobile-wheels. No. 1,376,336; Apr. 26; v. 285; p. 705.
- Howard, Charles P. and F. E., assignors to James L. Howard & Company, Hartford, Conn. Door-holder. No. 1,390,786; Sept. 13; v. 290; p. 338.
- Howard, Clarence J., Manton, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Speed-changing mechanism for metal-working machines. No. 1,373,816; Apr. 5; v. 285; p. 85.
- Howard, David G., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Thermal cut-out. No. 1,385,999; Aug. 2; v. 289; p. 7.
- Howard, Earl H., assignor to Gillilan Bros. Smelting & Refining Company, Los Angeles, Calif. Spotlight. No. 1,384,896; July 19; v. 288; p. 469.
- Howard, Earl H., assignor to Gillilan Bros. Smelting & Refining Company, Los Angeles, Calif. Spotlight. No. 1,399,120; Dec. 6.
- Howard, Edward S., Yreka, Calif. Hydraulic fishway. No. 1,380,384; June 7; v. 287; p. 11.
- Howard, Ernest S., Red Bank, N. J. Auxiliary tread element for vehicle-wheels. No. 1,385,918; July 26; v. 288; p. 754.
- Howard, Frank A. (See McKenzie-Martyn, E. C., and Howard.)
- Howard, Frank A., Portland, Me. Rivet-tester. No. 1,371,484; Mar. 15; v. 284; p. 439.
- Howard, Frank A., Portland, Me. Device for making leaky rivets tight. No. 1,371,485; Mar. 15; v. 284; p. 440.
- Howard, Frank E. (See Howard, C. P. and F. E.)
- Howard, Frank M., *et al.* (See Dungan, John E., assignor.)
- Howard, Frank P., Lisbon, N. H. Carbon-removing means for internal-combustion engines. No. 1,395,571; Nov. 1.
- Howard, Frank W., New York, N. Y. Raincoat. No. 1,374,301; Apr. 12; v. 285; p. 219.
- Howard, Frank W., New York, and G. B. Cannon, Jr., Brooklyn, N. Y. Combined hat protector and envelop. No. 1,375,511; Apr. 19; v. 285; p. 515.
- Howe, Fred C., and R. G. Warner, said Warner assignor to said Howe, New Haven, Conn. Electric synchronizing device. No. 1,371,096; Mar. 8; v. 284; p. 300.
- Howard, Fred H., Stirling, Ontario, Canada. Automobile-lock. No. 1,392,499; Oct. 4.
- Howard, Herbert H., and S. Furmidge, Chicago, Ill., assignors to Steel Wings Company. Spring mechanism for front axles for automobiles. No. 1,400,604; Dec. 20.
- Howard Iron Works. (See Schwimmer, Frederick J., assignor.)
- Howard, James L., & Company. (See Howard, C. P. and F. E., assignors.)
- Howard, John A., Sr., West New Brighton, N. Y., assignor to The Camward Engineering Co., Inc. Adjustable rest for washboards. No. 1,377,076; May 3; v. 286; p. 133.
- Howard, John A., Sr., West Brighton, N. Y., assignor to Camward Engineering Co., Inc. Electric stove. No. 1,383,949; July 5; v. 288; p. 143.
- Howard, John A., Sr., West New Brighton, N. Y., assignor to Camward Engineering Co., Inc. Electric incubator. No. 1,393,531; Oct. 11.
- Howard, John A., Sr., West New Brighton, N. Y., assignor to Camward Engineering Co., Inc. Electric floor mop or brush. No. 1,393,532; Oct. 11.
- Howard, John H., Colfax, Wash. Safety tug-hook. No. 1,376,145; Apr. 26; v. 285; p. 668.
- Howard, John M. (See Allen, C. J., Howard, and Richie.)
- Howard, John W., Pittsburgh, Pa. Can-opener. No. 1,365,405; Jan. 11; v. 282; p. 306.



- Howard, Karl S., assignor to Commonwealth Steel Company, St. Louis, Mo. Trolley-frame. No. 1,376,881; May 3; v. 286; p. 96.
- Howard, Karl S., assignor to Commonwealth Steel Company, St. Louis, Mo. Traveling crane. No. 1,380,558; June 7; v. 287; p. 44.
- Howard, Maurice R., Chesham, England, assignor of one-half to E. E. Boreham, New York, N. Y. Ticket-printing machine. No. 1,367,186; Feb. 1; v. 283; p. 60.
- Howard, Michael J., Hartford, Conn. Ornamenting sheet-class. No. 1,375,251; Apr. 19; v. 285; p. 465.
- Howard, Nellie E., administratrix. (See Harris, Walter A.)
- Howard, Sidney C., Columbus, Ohio. Oil control and oil-feeder. No. 1,401,081; Dec. 20.
- Howard, William C., Kansas City, Mo. Internal-combustion engine. No. 1,390,034; Sept. 6; v. 290; p. 96.
- Howard, William H., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Gas-discharge conduit for rotary converters. No. 1,375,965; Apr. 26; v. 285; p. 633.
- Howard, William H., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Recovering sulfur dioxide. No. 1,377,012; May 3; v. 286; p. 120.
- Howard, William H., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Obtaining a continuous flow of  $SO_2$  from white metal. No. 1,377,013; May 3; v. 286; p. 121.
- Howarth, Harry A. S. (See Kingsbury, A., and Howarth.)
- Howarth, Harry A. S., assignor to A. Kingsbury, Pittsburgh, Pa. Bearing. No. 1,390,130; Sept. 6; v. 290; p. 115.
- Howarth, Harry A. S., assignor to A. Kingsbury, Pittsburgh, Pa. Bearing. No. 1,390,131; Sept. 6; v. 290; p. 116.
- Howarth, Mark, Padgate, Warrington, England. Continuous wire-drawing machinery. No. 1,390,132; Sept. 6; v. 290; p. 116.
- Howarth, William, Devon, Conn. Nut-lock. No. 1,397,808; Nov. 22.
- Howe, Albert L., Alloa, Scotland, assignor to William Angus & Company (Scotland), Limited, Menstrie, North Britain. Writing-desk. No. 1,385,004; July 19; v. 288; p. 493.
- Howe, Andrew F., assignor, by mesne assignments, to Howe Safety Appliance Company, Granite City, Ill. Safety-guard for swing-saws. No. 1,375,698; Apr. 26; v. 285; p. 583.
- Howe, Arthur J., Lakewood, Ohio. Caster-wheel. No. 1,369,243; Feb. 22; v. 283; p. 605.
- Howe, Charles W., Dayton, and J. L. Garver, Hamilton, Ohio. Scarifying and grading device for tractors. No. 1,373,561; Apr. 5; v. 285; p. 36.
- Howe Comb Company, The. (See Shepard, Seth W., assignor.)
- Howe, Earl W., Washington, D. C. Aerial toy. No. 1,382,195; June 21; v. 287; p. 465.
- Howe, Ernest G., et al., trustees. (See Rockwell, R. L., and Stevens, assignors.)
- Howe, Frank D., Akron, Ohio, assignor, by mesne assignments, to International Harvester Company. Cooling device. No. 1,400,878; Dec. 20.
- Howe, Frederick W., et al. (See Roberts, Frank E., assignor.)
- Howe, George D., Davison, Mich. Internal-combustion engine. No. 1,384,133; July 12; v. 288; p. 231.
- Howe, Harold C., Rutland, Vt., assignor to Sealright Co., Inc., Fulton, N. Y. Filling containers with ice-cream. No. 1,397,520; Nov. 22.
- Howe, Harry, Stoughton, Wis. Shock-absorbing means for vehicles. No. 1,375,512; Apr. 19; v. 285; p. 515.
- Howe, Henry P., Steep Falls, Me., assignor, by mesne assignments, to Eastern Manufacturing Company, Boston, Mass. Paper-finishing machine. No. 1,371,372; Mar. 15; v. 284; p. 417.
- Howe, Henry P., Steep Falls, Me., assignor, by mesne assignments, to Eastern Manufacturing Company, Boston, Mass. Machine for surface-finishing paper. No. 1,394,016; Oct. 13.
- Howe, John D. (See Dean, Harry B., assignor.)
- Howe, Joseph E., Worcester, Mass., assignor to George S. Harwood & Son, Boston, Mass. Card-feeder. No. 1,399,557; Dec. 6.
- Howe, Mortimer A., assignor to Pioneer Bindery and Printing Company, Tacoma, Wash. Bank-check, record-book, and binder. No. 1,376,095; Apr. 26; v. 285; p. 659.
- Howe, Olaf L., Seattle, Wash. Water-motor. No. 1,399,558; Dec. 6.
- Howe Safety Appliance Company. (See George, Leon W., assignor.)
- Howe Safety Appliance Company. (See Howe, Andrew F., assignor.)
- Howe Sate Company. (See Hinsman, Carl B., assignor.)
- Howe Scale Company. (See Sonander, Andrew, assignor.)
- Howe, Solon G., assignor of one-half to W. Brotherton, Detroit, Mich. Track road-bed and forming the same. No. 1,392,500; Oct. 4.
- Howe, William G., Des Moines, Iowa. Tractor structure. No. 1,400,218; Dec. 13.
- Howe, William L., Overland, Mo. Windshield attachment or deflector for automobiles and the like. No. 1,384,803; July 19; v. 288; p. 451.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Foot for contact-shoes. No. 1,364,879; Jan. 11; v. 282; p. 205.
- Howe, Winthrop K., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. (Reissue.) No. 15,236; Nov. 29.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Detector-locking for power interlocking systems. No. 1,399,257; Dec. 6.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Electric lock for power-operated switch-machines. No. 1,399,258; Dec. 6.
- Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Interlocking system. No. 1,399,259; Dec. 6.
- Howe, Winthrop K., W. S. Henry, and F. N. Hall, Rochester, N. Y., assignors to General Railway Signal Company, Gates, N. Y. Switch-machine. No. 1,373,073; Mar. 29; v. 284; p. 844.
- Howell, Charles A. (See Howell, Robert B. and C. A.)
- Howell, Charles H., Columbus, Ohio. Blowtorch. No. 1,386,871; Aug. 8; v. 289; p. 252.
- Howell, Clarence S., New York, N. Y. Pile. No. 1,366,460; Jan. 25; v. 282; p. 596.
- Howell, Claude F., Chicago, Ill., assignor, by mesne assignments, to Continental Machinery Co., a Corporation of Delaware. Freezer. No. 1,376,016; Apr. 26; v. 285; p. 643.
- Howell, Delta B., Chicago, Ill., assignor of one-half to R. Y. Cliff, Sebring, Ohio. Sagger. No. 1,384,468; July 12; v. 288; p. 300.
- Howell, Edward B., Butte, Mont. Locking device. No. 1,365,172; Jan. 11; v. 282; p. 261.
- Howell Electric Motors Company. (See Barr, John M., assignor.)
- Howell, Evelyn L. V., assignor of one-half to H. M. Schroedter, Los Angeles, Calif. Shockless rail-crossing. No. 1,396,686; Nov. 8.
- Howell, Frank B., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Boiler. No. 1,393,622; Oct. 11.
- Howell, Harry F., Cleveland, Ohio. Electric elevator. No. 1,373,132; Mar. 29; v. 284; p. 856.
- Howell, Harry H., Hope, Ark. Vehicle-bridge. No. 1,364,764; Jan. 4; v. 282; p. 138.
- Howell, Henry M., assignor of seven and one-half per cent. to C. Schultze, seven and one-half per cent. to R. Downs, seven and one-half per cent. to J. E. Doughtie, seven and one-half per cent. to S. C. Blackmon, seven and one-half per cent. to A. King, fifteen per cent. to L. H. Krickel, and thirty-five per cent. to S. Kaplan, Monroe, La. Demountable rim. No. 1,383,810; July 5; v. 288; p. 115.
- Howell, Israel G., assignor of one-half to A. Perey, Trenton, N. J. Sprinkler attachment for vehicles. No. 1,385,684; July 26; v. 288; p. 708.
- Howell, John A., deceased, Warrenton, Va., by B. H. Bohn and F. A. Neville, executors, Washington, D. C. Wheeled boat. No. 1,395,112; Oct. 25.
- Howell, Joseph A., Dover, Ohio. Time-controlled desk-memorandum. No. 1,379,342; May 24; v. 286; p. 747.
- Howell, Robert B., Omaha, Nebr., and C. A. Howell, Ann Arbor, Mich. Gate for pouring pipe-joints. No. 1,390,133; Sept. 6; v. 290; p. 116.
- Howell, William M., Youngstown, Ohio. Signal for autos. No. 1,391,383; Sept. 20; v. 290; p. 522.
- Howell, William S., et al. (See Comstock, Francis M., assignor.)
- Howells, Thomas J. (See Jones, John T., assignor.)
- Howarth, Herbert J., Cleveland, Ohio. Shock-absorber. No. 1,393,374; Oct. 11.
- Hoves, Albert, Santa Cruz, Calif. Shock-absorber for motor-vehicles. No. 1,385,551; July 26; v. 288; p. 680.
- Hoves, Charles F., Brockton, Mass. Balance pulley and collar. No. 1,380,965; June 7; v. 287; p. 123.
- Hoves, George W., assignor to The Beckwith Company, Dowagiac, Mich. Furnace. No. 1,366,124; Jan. 18; v. 282; p. 485.
- Hoves, George W., assignor to The Beckwith Company, Dowagiac, Mich. Gas-oven. No. 1,368,259; Feb. 15; v. 283; p. 374.
- Hoves, George W., assignor to The Beckwith Company, Dowagiac, Mich. Grate for furnaces. No. 1,369,433; Feb. 22; v. 283; p. 641.
- Hoves, George W., assignor to The Beckwith Company, Dowagiac, Mich. Furnace. No. 1,369,434; Feb. 22; v. 283; p. 641.
- Hoves, George W., assignor to Beckwith Company, Dowagiac, Mich. Firepot. No. 1,372,025; Mar. 22; v. 284; p. 599.
- Howgate, Alfred, Riddlesden, Keighley, England. Apparatus for use in annealing or otherwise treating metals. No. 1,398,520; Nov. 29.
- Howie, Kenneth, Philadelphia, assignor to Wildman Mfg. Co., Norristown, Pa. Take-up mechanism for knitting-machines. No. 1,399,121; Dec. 6.
- Howland, Arthur, West Newton, Mass. Compounding colors and apparatus for same. No. 1,400,552; Dec. 20.



## Alphabetical list of patentees—Continued.

- Howland Bag and Paper Company. (See Smith, Charles F., assignor.)
- Howland, Fred, Nogales, Ariz. Liquid and gaseous fuel burner. No. 1,384,955; July 19; v. 288; p. 482.
- Howland, George A. (See Breitenwischer, A. A., and Howland.)
- Howland, Robert J., *et al.* (See Brown, Theophilus M., assignor.)
- Howland-Shearman, Charles H., Indianapolis, Ind. Jack. No. 1,400,605; Dec. 20.
- Howland-Shearman, Charles H., Indianapolis, Ind. Mechanical puller. No. 1,400,606; Dec. 20.
- Howle, Ernest O., Nashville, Tenn., and J. B. Leonard, Cedar Rapids, Iowa. Stove and range. No. 1,393,129; Oct. 11.
- Howley, Thomas H. A., New York, and Dooley, J. J., Brooklyn, N. Y. Plaster-board. No. 1,379,444; May 24; v. 286; p. 766.
- Howorth, Florena L., *et al.* (See Cooper, Daniel R., assignor.)
- Howson, Charles T., assignor to The Anglo-American Mill Co., Owensboro, Ky. Scourer. No. 1,372,511; Mar. 22; v. 284; p. 692.
- Hoxie, Charles A., Schenectady, N. Y., assignor to General Electric Company. Amplifying system. No. 1,382,914; June 28; v. 287; p. 657.
- Hoy, George P., West Point, Nebr. Hay-stacking apparatus. No. 1,371,897; Mar. 15; v. 284; p. 518.
- Hoyer, Edward C., Jr. (See Hoyer, Edward C. and E. C., Jr.)
- Hoyer, Edward C., Cincinnati, Ohio, and E. C. Hoyer, Jr., Richmond, Va. Combination adjustable school desk and chair. No. 1,369,108; Feb. 22; v. 283; p. 579.
- Hoyle, Ernest, Brooklyn, N. Y. Chuck. No. 1,377,351; May 10; v. 286; p. 243.
- Hoyle, Millard F., Dallas, Tex. Plastic base for poles. No. 1,378,351; May 17; v. 286; p. 485.
- Hoyt, Adrian H., deceased, Penacook, N. H.; W. C. Hoyt, administrator. Means for calibrating ammeters. No. 1,398,595; Nov. 29.
- Hoyt, Charles H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-supporting means for shoe-machines. No. 1,399,771; Dec. 13.
- Hoyt, Daniel, East Orange, N. J. Turn-buckle. No. 1,366,732; Jan. 25; v. 282; p. 650.
- Hoyt, Edgar S., Des Moines, Iowa. Machine for applying tape. No. 1,399,715; Dec. 6.
- Hoyt, Frederick A. (See Kliersath, V. W., and Hoyt.)
- Hoyt, Frederick A., assignor to The Simms Magneto Company, East Orange, N. J. Magneto. No. 1,398,485; Nov. 29.
- Hoyt, George W., assignor to The Oakes Co., Indianapolis, Ind. Bearing lubrication. No. 1,371,898; Mar. 15; v. 284; p. 518.
- Hoyt, Jesse D., Los Angeles, Calif. Table dish-washing device. No. 1,373,506; Apr. 5; v. 285; p. 25.
- Hoyt, Wallace C., administrator. (See Hoyt, Adrian H.)
- Hoyt, William C., South Bend, Wash. Combination level and bevel. No. 1,393,533; Oct. 11.
- Hoyt, Worthington, *et al.* (See Haber, Henry J., assignor.)
- Hrbek, Jan J., Cedar Rapids, Iowa. Marginal indexing. No. 1,383,120; June 28; v. 287; p. 696.
- Hrib, George, Simpson, W. Va. Gear box and drive for aeroplane-propellers. No. 1,377,483; May 10; v. 286; p. 268.
- Hrib, George, Simpson, W. Va. Aeroplane. No. 1,385,786; July 26; v. 288; p. 728.
- Hrissikos, Louis J., Moline, Ill. Medicinal compound. No. 1,395,228; Oct. 25.
- Hruby, Thomas J. (See Plummer, George C., assignor.)
- Hromadko, Joseph A., New Haven, Conn., assignor to The Motor Radiator & Manufacturing Corporation. Radiator. No. 1,376,882; May 3; v. 286; p. 96.
- Hryniewich, Dmitro, Livermore, Pa. Railway-gate. No. 1,385,787; July 26; v. 288; p. 728.
- Hryshka, Laurence P. (See Zalewski, F. P., and Hryshka.)
- Huart, Frank, *et al.* (See Becker, Hugo A., assignor.)
- Hub, J. C. (See Case, Francis M., assignor.)
- Hubbard, Adra M., Dallas, Tex. Clutch and transmission device. No. 1,369,244; Feb. 22; v. 283; p. 605.
- Hubbard, Arthur O., Minneapolis, Minn. Driving mechanism. No. 1,364,633; Jan. 4; v. 282; p. 113.
- Hubbard, Arthur O., Minneapolis, Minn. Cot-bed. No. 1,387,154; Aug. 9; v. 289; p. 308.
- Hubbard, Burr J., Kokomo, Ind. Windshield-wing. No. 1,380,909; June 7; v. 287; p. 112.
- Hubbard, Burr J., Kokomo, Ind. Mirror for automobiles. No. 1,380,910; June 7; v. 287; p. 112.
- Hubbard, Charles W., Weston, Mass. Winding-machine. No. 1,394,732; Oct. 25.
- Hubbard, Eber J., Berwyn, Ill. Spool. No. 1,365,406; Jan. 11; v. 282; p. 306.
- Hubbard, Eber J., Berwyn, Ill. Bobbin. No. 1,388,951; Aug. 30; v. 289; p. 827.
- Hubbard, Eber J., Berwyn, Ill. Bobbin. No. 1,388,952; Aug. 30; v. 289; p. 827.
- Hubbard, Harry H., Grand Rapids, Mich. Recording apparatus. No. 1,394,733; Oct. 25.
- Hubbard, Henry E., Oak Park, assignor to Addressograph Company, Chicago, Ill. Making curved printing-plates. No. 1,384,897; July 19; v. 288; p. 469.
- Hubbard, Morris V., San Jose, Calif. Stretcher. No. 1,396,208; Nov. 8.
- Hubbard, Roscoe C., New York, N. Y. Apparatus for the developing, &c., of films. No. 1,377,887; May 10; v. 286; p. 346.
- Hubbard, William, Rochester, N. Y., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,401,258; Dec. 27.
- Hubbell-Fuller Battery Company. (See Hubbell, Harry C., assignor.)
- Hubbell, Harry C., Irvington, N. J., assignor to Hubbell-Fuller Battery Company. Storage-battery electrode and making same. No. 1,373,733; Apr. 5; v. 285; p. 68.
- Hubbell, Harry C., Irvington, N. J., assignor to Hubbell-Fuller Battery Company. Storage-battery electrode and making same. No. 1,373,734; Apr. 5; v. 285; p. 68.
- Hubbell, Harry C., assignor to Willard Storage Battery Company, Cleveland, Ohio. Method and means for making electrical connections. No. 1,378,461; May 17; v. 286; p. 506.
- Hubbert, Francis A., Seattle, Wash. Back for bed-davenport. No. 1,374,661; Apr. 12; v. 285; p. 290.
- Hubble, Joe H., assignor to G. McCann and R. L. Ragon, Tekoa, Wash. Device for use in the application of piston-rings to pistons. No. 1,375,291; Apr. 19; v. 285; p. 473.
- Huber, Charles J., assignor to Huber Grate Bar & Stoking Company, Baltimore, Md. Furnace-grate. (Reissue.) No. 15,124; June 14; v. 287; p. 351.
- Huber, Emil, Chester, Pa. Machine for straightening the welt-threads of textile piece goods. No. 1,387,155; Aug. 9; v. 289; p. 308.
- Huber Grate Bar & Stoking Company. (See Huber, Charles J., assignor.)
- Huber, William C., Fostoria, Ohio. Check-box. No. 1,397,583; Nov. 22.
- Huber, William E., assignor of one-third to H. J. Erzinger and one-third to A. S. Crosby, Chicago, Ill. Refrigerator-door latch. No. 1,391,114; Sept. 20; v. 290; p. 467.
- Hubic, Fred, Pelly, Saskatchewan, Canada. Toy. No. 1,380,911; June 7; v. 287; p. 112.
- Hubricht, Paul O., Cleveland, Ohio. Holding-tool for sharpening scrapers, &c. No. 1,400,065; Dec. 13.
- Hucal, Wasyl, Chicago, Ill. Intermittent mechanism. No. 1,387,054; Aug. 9; v. 289; p. 289.
- Huck, Adolf, Nuremberg, Bavaria, Germany. Construction toy set. No. 1,400,066; Dec. 13.
- Huele, James B., assignor of one-fourth to R. H. Ross, Columbus, Ohio. Garment-supporter. No. 1,374,204; Apr. 12; v. 285; p. 201.
- Hudak, Charles. (See Wilson, W. G., and Hudak.)
- Huddle, Edwin F., assignor to Deere & Company, Moline, Ill. Elevator roll-support. No. 1,399,559; Dec. 6.
- Huddle, John T., Washington, D. C. Combination duplicate or single cane or stick. No. 1,375,912; Apr. 26; v. 285; p. 623.
- Huddle, Starling E., Lancaster, Ohio. Valve-assembly remover. No. 1,368,501; Feb. 15; v. 283; p. 422.
- Hudon, Arthur, and P. W. Ward, assignors to Spardon Electrical Products Company, Limited, Ottawa, Ontario, Canada. Fire-detector. No. 1,397,004; Nov. 15.
- Hudon, Louis D., Anticosti Island, Canada. Game apparatus. No. 1,367,261; Feb. 1; v. 283; p. 76.
- Hudry, John, Hazleton, Pa. Runner attachment for children's vehicles. No. 1,374,011; Apr. 5; v. 285; p. 123.
- Hudson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Press. No. 1,374,922; Apr. 19; v. 285; p. 402.
- Hudson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Perforating. No. 1,389,645; Sept. 6; v. 290; p. 17.
- Hudson, Alexander M., New York, N. Y. Wheel-fender. No. 1,393,020; Oct. 11.
- Hudson, David W., Green Bay, Wis. Interfolded paper package and manufacturing same. No. 1,381,307; June 14; v. 287; p. 239.
- Hudson, Finn S. (See Halvorsen, O. G., Hudson, and Rhoads.)
- Hudson, George J., Dallas, Tex. Collar fastener and supporter. No. 1,384,956; July 19; v. 288; p. 482.
- Hudson, George W., Lancaster, Ohio. Combined table and ironing-board. No. 1,391,115; Sept. 20; v. 290; p. 467.
- Hudson, James C., Gorman, Tex. Wheel and shaft. No. 1,392,501; Oct. 4.
- Hudson, John W., Brooklyn, N. Y. Crank-shaft. No. 1,395,113; Oct. 25.
- Hudson, John W., Brooklyn, N. Y. Internal-combustion engine. No. 1,400,485; Dec. 13.
- Hudson Motor Specialties Company. (See Hudson, William F., assignor.)
- Hudson Motor Specialties Company. (See Spiro, Walter J., assignor.)
- Hudson, Percy S., Liverpool, England. Apparatus for taking soundings. No. 1,395,572; Nov. 1.
- Hudson, Robert F., Richmond, Va. Machine-gun. No. 1,386,872; Aug. 9; v. 289; p. 252.
- Hudson, Robert F., Richmond, Va. Train-control system. No. 1,387,400; Aug. 9; v. 289; p. 357.
- Hudson, Warren R., assignor to The Troy Wagon Works Company, Troy, Ohio. Steering device. No. 1,396,755; Nov. 15.



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- Hudson, William F., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Motor-vehicle construction. No. 1,366,077; Jan. 18; v. 282; p. 476.
- Hudson, William F., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Clutch-band and casing therefor. No. 1,398,191; Nov. 22.
- Hudy, Antoni, Detroit, Mich. Lock. No. 1,368,630; Feb. 15; v. 283; p. 447.
- Huebner-Bleistein Patents Co. (See Huebner, William C., assignor.)
- Huebner, William C., assignor to Huebner-Bleistein Patents Co., Buffalo, N. Y. Photographic-printing apparatus. No. 1,377,249; May 10; v. 286; p. 222.
- Huebner, William C., assignor to Huebner-Bleistein Patents Company, Buffalo, N. Y. Photographic-printing apparatus. No. 1,377,250; May 10; v. 286; p. 222.
- Huebner, William C., assignor to Huebner-Bleistein Patents Co., Buffalo, N. Y. Holding means for photosensitive plates and the like. No. 1,391,116; Sept. 20; v. 290; p. 468.
- Huebner, William C., Buffalo, N. Y. Printing-plate or the like and means for securing the same in predetermined positions in printing-presses. No. 1,391,117; Sept. 20; v. 290; p. 468.
- Huegerich, George W., Breda, Iowa. Operating-trough. No. 1,400,486; Dec. 13.
- Huelves, Claudio G., Santa Clara, Cuba. Machine for picking and cutting cane-straw and plowing under the same. No. 1,374,149; Apr. 5; v. 285; p. 149.
- Huenefeld, Walter E., Cincinnati, Ohio. Oil-burner. No. 1,370,891; Mar. 8; v. 284; p. 261.
- Huestis, George J., Belleville, Ontario, Canada. Draft appliance for locomotives. No. 1,373,735; Apr. 5; v. 285; p. 68.
- Huestis, Thomas B., Bristol, R. I., assignor to National India Rubber Company. Heel-trimmer. No. 1,382,642; June 28; v. 287; p. 605.
- Huether, Davis J. (See Burns, T. A., and Huether.)
- Huetter, Andrew, Dayton, Ohio. Expandible core for vehicle-tires. No. 1,368,631; Feb. 15; v. 283; p. 447.
- Huetter, Andrew, Dayton, Ohio. Expandible core. No. 1,400,219; Dec. 13.
- Huetter, Andrew, Dayton, assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Expandible core for curing tires. No. 1,365,104; Jan. 11; v. 282; p. 248.
- Huetter, Andrew, assignor to The Allsteel Ridewell Tire and Rubber Company, Dayton, Ohio. Air-bag for vehicle-tires. No. 1,374,570; Apr. 12; v. 285; p. 272.
- Huey, George W. (See Harvey, A. L., and Huey.)
- Huey, Harold L., assignor, by mesne assignments, to Sayles Finishing Plants, Inc., Saylesville, R. I. Fabric for linings and other uses. No. 1,390,292; Sept. 13; v. 290; p. 239.
- Huff, Charles K., Christiansburg, Va. Broomholder. No. 1,380,651; June 7; v. 287; p. 62.
- Huff, Edward L., Philadelphia, Pa. Safety device for ladders. No. 1,373,133; Mar. 29; v. 284; p. 856.
- Huff, Elbridge, Somerville, Mass. Sealing-strip apparatus. No. 1,389,003; Aug. 30; v. 289; p. 838.
- Huff, Gilbert L., St. Louis, Mo. Sheet-delivering mechanism for vending-machines. No. 1,399,385; Dec. 6.
- Huff, Leslie R., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate-valve. No. 1,375,252; Apr. 19; v. 285; p. 465.
- Huff Process Company. (See Stephens, James C., assignor.)
- Huff, Russell C., Eldorado, Kans. Feeding device for liquid fuel. No. 1,399,964; Dec. 13.
- Huff, Sreno E., Greeley, Colo. Ratchet-wrench. No. 1,389,759; Sept. 6; v. 290; p. 40.
- Huff, Slaughter W., New York, N. Y. Manufacturing drawn links for electric fuses. No. 1,388,568; Aug. 23; v. 289; p. 569.
- Huff, William D., La Fayette, La., assignor of one-half to J. J. Connolly, Roanoke, Va. Electrically-heated culinary utensil. No. 1,368,152; Feb. 8; v. 283; p. 305.
- Huffer, John C., Sterling, Colo. Locking device for nuts. No. 1,399,862; Dec. 13.
- Huffman, Edwin E., St. Louis, Mo. Depth-indicating device. No. 1,396,844; Nov. 15.
- Huffman, Frank K. (See Burns, T. C., and Huffman.)
- Huffman, Fred K. (See Lamm, J. T., and Huffman.)
- Huffman, Harry E. (See Carroll, E. C., and Huffman.)
- Huffman, Louis, Toronto, Ontario, Canada. Knob-lock. No. 1,393,021; Oct. 11.
- Huffman, Louis, Toronto, Ontario, Canada. Knob-lock. No. 1,395,414; Nov. 1.
- Huffman, Mike, Des Moines, Iowa. Sediment-pocket for boilers. No. 1,371,765; Mar. 15; v. 284; p. 493.
- Huffman, Orla L., Weatherford, Tex. Washing-machine. No. 1,378,541; May 17; v. 286; p. 522.
- Huffman, Orla L., Weatherford, Tex. Steering attachment. No. 1,378,542; May 17; v. 286; p. 522.
- Huffman, Oscar, Portsmouth, Ohio. Door-fastener. No. 1,387,719; Aug. 16; v. 289; p. 473.
- Hufschmidt, Louis A., San Francisco, Calif. Lighting-fixture canopy. No. 1,370,892; Mar. 8; v. 284; p. 261.
- Hufschmidt, Milton S., San Francisco, Calif. Sanitary flushing-nozzle. No. 1,366,320; Jan. 18; v. 282; p. 524.
- Hufford, Ernest C., Los Angeles, Calif. Preparing retread-matrix and product thereof. No. 1,380,320; May 31; v. 286; p. 1005.
- Hug, Christian J., Highland, Ill. Turntable. No. 1,367,602; Feb. 8; v. 283; p. 200.
- Hugetz, Edward, New York, N. Y. Self-filling fountain-pen. No. 1,392,569; Oct. 4.
- Huggins, Lewis D. (See Essmuller, E. A., and Huggins.)
- Huggins, Merion J., assignor to Automotive Development Co., Inc., New York, N. Y. Speed-changing transmission for automobiles. No. 1,372,227; Mar. 22; v. 284; p. 638.
- Huggins, Theodore, Oakland, Calif. Dish-washing machine. No. 1,382,915; June 28; v. 287; p. 657.
- Hughens, Robert L., Atlanta, Ga. Push-rod connection for automobile-engine valves. No. 1,379,343; May 24; v. 286; p. 748.
- Hughes, Allen H., and H. S. Curren, Rochester, N. Y. Holding means for clutch-levers. No. 1,382,643; June 28; v. 287; p. 605.
- Hughes, Arthur J. (See Starling, S. G., and Hughes.)
- Hughes, Arthur S., Mansfield, Ohio. Steel partition and door. No. 1,373,074; Mar. 29; v. 284; p. 844.
- Hughes, Arthur S., Mansfield, Ohio. Steel partition and hollow door. No. 1,373,191; Mar. 29; v. 284; p. 868.
- Hughes, Arthur S., Mansfield, Ohio. Self-closing hinge. No. 1,386,621; Aug. 9; v. 289; p. 201.
- Hughes, Burton S., assignor to Zaremba Company, Buffalo, N. Y. Evaporator. No. 1,393,221; Oct. 11.
- Hughes, Charles B., New Orleans, La. Tension device for use in orthopedic surgery. No. 1,380,297; May 31; v. 286; p. 1001.
- Hughes, Charles H., assignor of one-half to F. C. Cramer, Denver, Colo. Outlet-valve for gasoline-dispensing apparatus of filling stations. No. 1,377,835; May 10; v. 286; p. 335.
- Hughes, David D. (See Hughes, T. B., Davis, and Hughes.)
- Hughes, Davydd C., Chicago, Ill. Toy engine. No. 1,366,883; Jan. 25; v. 282; p. 680.
- Hughes, Dow B., New York, N. Y., assignor, by mesne assignments, to Motor Ignition & Devices Company. Ignition system. No. 1,389,048; Aug. 30; v. 289; p. 847.
- Hughes, Dow B., Cleveland, Ohio, assignor, by mesne assignments, to Motor Ignition & Devices Company. Ignition system. No. 1,389,646; Sept. 6; v. 290; p. 17.
- Hughes, Dow B., Cleveland, Ohio, assignor, by mesne assignments, to Motor Ignition & Devices Company. Ignition system. No. 1,389,647; Sept. 6; v. 290; p. 18.
- Hughes, Francis F., Atlanta, Ga. Fuel-mixer. No. 1,398,899; Nov. 29.
- Hughes, Frank C. (See Carrico, Noel, assignor.)
- Hughes, Frank C., Chicago, Ill., assignor of one-half to N. Carrico, Sidney, Mont. Electric heater. No. 1,399,428; Dec. 6.
- Hughes, Frederick G. (See Simmons, C. B., and Hughes.)
- Hughes, Gwyllim A. (See Mordey, William M., assignor.)
- Hughes, Harry C., Cincinnati, Ohio. Valve-grinding tool. No. 1,398,377; Nov. 29.
- Hughes, Harry D. (See Hughes, Stanley R. and H. D.)
- Hughes, Harry F. (See Klocke, William H., assignor.)
- Hughes, Henry, and Son Limited. (See Starling, S. G., and Hughes, assignors.)
- Hughes, Henry A., London, and T. Y. Baker, Slough, England. Sextant. No. 1,383,950; July 5; v. 288; p. 143.
- Hughes, Henry L., Co. (See Sherman, William T., assignor.)
- Hughes, Henry L., Company. (See Alexander, Milton W., assignor.)
- Hughes, Howard R., Houston, Tex. Reamer. No. 1,399,863; Dec. 13.
- Hughes, Hugh T., assignor to The Cleveland Chain & Mfg. Company, Cleveland, Ohio. Chain-link connector. No. 1,395,415; Nov. 1.
- Hughes, James. (See Alm, J., and Hughes.)
- Hughes, James C., Fort Morgan, Colo. Pipe-buck. No. 1,400,067; Dec. 13.
- Hughes, James T., et al. (See Anderson, Charles H., assignor.)
- Hughes, James W., Haddon Heights, N. J. Automatic vending machine. No. 1,395,676; Nov. 1.
- Hughes, James W., Haddon Heights, N. J., assignor to S. Nelson and I. Avart, Philadelphia, Pa. Box-making machine. No. 1,401,407; Dec. 27.
- Hughes, John, assignor to Pullman Manufacturing Company, Pullman, Mich. Crate. No. 1,388,569; Aug. 23; v. 289; p. 697.
- Hughes, John M., Atlanta, Ga. Power mechanism. No. 1,395,573; Nov. 1.
- Hughes, John T., Wakanda, Mo. Corn-picker. No. 1,373,428; Apr. 5; v. 285; p. 9.
- Hughes, John T., Council Bluffs, Iowa. Steering and braking device for aeroplanes. No. 1,378,233; May 17; v. 286; p. 463.
- Hughes, John T., Council Bluffs, Iowa. Aeroplane shock-absorber. No. 1,378,234; May 17; v. 286; p. 463.
- Hughes, Joseph W., Bethlehem, Pa. Automobile-locking device. No. 1,393,022; Oct. 11.
- Hughes, Leo L., Washington, D. C. Sound-box. No. 1,399,302; Dec. 6.
- Hughes, Lionel W., London, England. Packing-case. No. 1,383,401; July 5; v. 288; p. 30.
- Hughes, Louis J., assignor of one-half to O. F. Marcotte, Topeka, Kans. Hydraulic transmission. No. 1,396,756; Nov. 15.



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- Hughes, Richard C., Toronto, Ontario, Canada. Registering mechanism. No. 1,373,245; Mar. 29; v. 284; p. 879.
- Hughes, Robert R., Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Fabric-marking device. No. 1,371,373; Mar. 15; v. 284; p. 417.
- Hughes, Robert R., Jr., Naperville, assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,376,623; May 3; v. 286; p. 46.
- Hughes, Ross A., Mahanomen, Minn. Bull-pen-gate lock or fastener. No. 1,387,401; Aug. 9; v. 289; p. 358.
- Hughes, Stanley R., Benton, and H. D. Hughes, Lytle, Tex. Oil-pump. No. 1,379,690; May 31; v. 286; p. 887.
- Hughes Steel Equipment Co. (See Lindsey, John H., Sr., assignor.)
- Hughes, Thomas B., W. J. Davis, and D. D. Hughes, Granite City, Ill. Feeding mechanism for plates and the like. No. 1,383,304; July 5; v. 288; p. 9.
- Hughes, Thomas J., Seattle, Wash. Reversing-gearing. No. 1,384,388; July 12; v. 288; p. 283.
- Hughes, Thomas J., Seattle, Wash. Device for tightening cable. No. 1,388,716; Aug. 23; v. 289; p. 726.
- Hughes, Thomas J., assignor of one-half to S. J. Humes, Seattle, Wash. Swivel. No. 1,372,696; Mar. 29; v. 284; p. 769.
- Hughes Tool Company. (See Belcher, Mark, assignor.)
- Hughes Tool Company. (See Fletcher, Harold W., assignor.)
- Hughes Tool Company. (See Humason, Granville A., assignor.)
- Hughes Tool Company. (See Wadsworth, Frank L. O., assignor.)
- Hughes, William K. (See Kelley, Benjamin F., assignor.)
- Hughes, Zachariah H. (See McBride, William H., assignor.)
- Huguenin, Albert, Zurich, Switzerland. Process and device for shortening the time used in removing the debris off the track on driving headings. No. 1,386,622; Aug. 9; v. 289; p. 201.
- Huguenin, Jacques. (See Pahud, J., and Huguenin.)
- Huguley, William T., et al. (See O'Neill, Frank, Jr., assignor.)
- Huidobro, Rogelio Gallo, Mexico, Mexico. Bread-making machine. No. 1,380,652; June 7; v. 287; p. 62.
- Hulbert, Ansel C., San Francisco, Calif., assignor to E. C. Streich, M. C. Streich, J. E. Manning, E. E. Mullvain, and V. A. Shafer, trustees for the National Auto Signal Company. Automobile signal-switch. No. 1,379,985; May 31; v. 286; p. 942.
- Hulbert, Edwin F., assignor to National Paper Can Company, Milwaukee, Wis. Machine for forming shells of paper or the like. No. 1,380,103; May 31; v. 286; p. 965.
- Hulbert, Edwin F., assignor to National Paper Can Company, Milwaukee, Wis. Machine for forming shells of paper or the like. No. 1,380,104; May 31; v. 286; p. 965.
- Hulbert, Edwin F., assignor to National Paper Can Company, Milwaukee, Wis. Winding-machine. No. 1,380,105; May 31; v. 286; p. 965.
- Hulbert, Edwin F., Milwaukee, assignor to Jiffy Dessert Company, Waukesha, Wis. Forming closures of sealed receptacles. No. 1,385,830; July 26; v. 288; p. 737.
- Hulbert, Edwin F., Milwaukee, assignor to Jiffy Dessert Company, Waukesha, Wis. Sealed receptacle. No. 1,385,831; July 26; v. 288; p. 737.
- Hulbert, George J., Seattle, Wash. Adjustable saw. No. 1,390,958; Sept. 13; v. 290; p. 374.
- Hulbert, John L., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking-machine pulsator. No. 1,392,570; Oct. 4.
- Hulbert, Judd W., Aberdeen, Md. Railway-cross-tie. No. 1,376,769; May 3; v. 286; p. 73.
- Hulett, George A., Princeton, N. J. Purifying inorganic materials. No. 1,368,396; Feb. 15; v. 283; p. 401.
- Hulett, George H., Cleveland, Ohio. Trimming mechanism. No. 1,377,686; May 10; v. 286; p. 305.
- Hulit, John A., Chicago, Ill. Recording telegraphic receiving instrument. No. 1,399,429; Dec. 6.
- Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge apparatus. No. 1,385,873; July 26; v. 288; p. 746.
- Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Negative resistance. No. 1,387,984; Aug. 16; v. 289; p. 525.
- Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge device. No. 1,387,985; Aug. 16; v. 289; p. 525.
- Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Wireless receiving system. No. 1,387,986; Aug. 16; v. 289; p. 525.
- Hull, Burton E., Houston, Tex., assignor to The Texas Company. Explosion-hatch for oil-tanks. No. 1,396,719; Nov. 8.
- Hull, Edmund M., Buffalo, N. Y. Car unloading or dumping apparatus. No. 1,399,484; Dec. 6.
- Hull, Emma, et al. (See Martin, Charles H., assignor.)
- Hull, George W., Seattle, Wash. Swiveled chair. No. 1,385,620; July 26; v. 288; p. 695.
- Hull, Henry M., Fairfield, Conn. Beater. No. 1,401,408; Dec. 27.
- Hull, Henry M., Fairfield, Conn. Kettle. No. 1,389,305; Aug. 30; v. 289; p. 898.
- Hull, Henry M., Fairfield, Conn. Chain for vehicle-tires. No. 1,391,254; Sept. 20; v. 290; p. 496.
- Hull, John, Coatesville, Pa. Advertising device. No. 1,385,211; July 19; v. 288; p. 535.
- Hull, John W., assignor of one-fourth to H. D. Manton, San Antonio, Tex. Wall-block. No. 1,398,695; Nov. 29.
- Hull, Leo. (See Conover, R., and Hull.)
- Hull Process Company. (See Stephens, James C., assignor.)
- Hull, Ray L., San Francisco, Calif. Spark-plug. No. 1,388,343; Aug. 23; v. 289; p. 653.
- Hull, Salmon, Mfg. Co. (See Salmon, Edward W., Jr., assignor.)
- Hullett, Arthur D., Newport, Tenn. Wrench. No. 1,399,621; Dec. 6.
- Hullings, George F. (See Fink, William B., assignor.)
- Hullsberg & Cie. m. b. H. (See Rüping, Max, assignor.)
- Hulse, Edison G., assignor to Kelly-Springfield Tire Company, Cumberland, Md. Mold-opening device. No. 1,369,435; Feb. 22; v. 283; p. 642.
- Hulse, Edison G., assignor to Kelly-Springfield Tire Company, Cumberland, Md. Vehicle-tire. No. 1,384,759; July 19; v. 288; p. 442.
- Hulsebos, Albert B., and G. Den Besten, assignors to Safety Release Clevis Company, Corsica, S. D. Automatically-releasing coupling. No. 1,384,195; July 12; v. 288; p. 243.
- Hulsebos, Albert B., and G. Den Besten, assignors to Safety Release Clevis Company, Corsica, S. D. Automatically-releasing coupling. No. 1,384,258; July 12; v. 288; p. 256.
- Hulsebos, Albert B., and G. Den Besten, assignors to Safety Release Clevis Co., Holland, Mich. Plow safety-hitch. No. 1,391,058; Sept. 20; v. 290; p. 446.
- Hulsmann, Anton, San Francisco, Calif. Artificial-arm frame. No. 1,399,622; Dec. 6.
- Hulsmann, Frederic, Pelham, N. Y. Animal-trap. No. 1,381,464; June 14; v. 287; p. 268.
- Hulst, George P., Hammond, Ind., and M. W. Krejčí, Chicago, Ill. Treating lead bullion. No. 1,386,503; Aug. 2; v. 289; p. 105.
- Hult, Carl A., Stockholm, Sweden. Four-cycle internal-combustion engine. No. 1,389,873; Sept. 6; v. 290; p. 63.
- Hult, Oscar W., Stockholm, Sweden. Balancing device for explosion or internal-combustion motors. No. 1,393,782; Oct. 18.
- Hult, Oskar O., Stockholm, Sweden. Balancing device for motors. No. 1,387,720; Aug. 16; v. 289; p. 473.
- Hultgreen, Charles E., Oakland, Calif. Rotary pump. No. 1,365,245; Jan. 11; v. 282; p. 275.
- Hultgren, Axel G. E., Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken. Antifriction-bearing. No. 1,369,031; Feb. 22; v. 283; p. 564.
- Hultgren, Axel G. E., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Feeding device for annular bodies. No. 1,396,116; Nov. 8.
- Hultgren, Charles. (See Voss, H. C., and Hultgren.)
- Hultman, Ivar, Saltsjöbaden, near Stockholm, Sweden. Chuck. No. 1,379,986; May 31; v. 286; p. 943.
- Hultquist, Charles A., Los Angeles, Calif. Drilling-machine. No. 1,390,787; Sept. 13; v. 290; p. 338.
- Human, Samuel H., Chicago, Ill. Fluid-compressor. No. 1,377,583; May 10; v. 286; p. 286.
- Humason, Granville A., Houston, Tex. Pump. No. 1,380,476; June 7; v. 287; p. 29.
- Humason, Granville A., assignor to Hughes Tool Company, Houston, Tex. Reamer. No. 1,375,094; Apr. 19; v. 285; p. 435.
- Humason, Granville A., assignor of one-half to W. E. Langley, Houston, Tex. Pump. (Reissue.) No. 15,095; Apr. 26; v. 285; p. 715.
- Humason, Granville A., and J. A. Burtschel, Houston, assignors to Dr. A. L. Miller, Harris county, Tex. Pump. No. 1,398,967; Dec. 6.
- Humason, Granville A. S. F., Bashara, and B. J. Barraco, assignors to Texas Reclaim Oil Association, Houston, Tex. Piston for deep-well pumps. No. 1,369,339; Feb. 22; v. 283; p. 622.
- Humbert, Clifford S., Scobey, Mont. Belt tightener and lacer. No. 1,389,760; Sept. 6; v. 290; p. 40.
- Humbert, Richard E., Montclair, assignor to Humbert Toymakers, Inc., Newark, N. J. Toy. No. 1,381,995; June 21; v. 287; p. 429.
- Humbert Toymakers, Inc. (See Humbert, Richard E., assignor.)
- Humbke, Detrich E., Wetaskiwin, Alberta, Canada. Thresher-separator. No. 1,366,691; Jan. 25; v. 282; p. 641.
- Hume, Frank R., Indianapolis, Ind. Yielding universal joint. No. 1,386,000; Aug. 2; v. 289; p. 7.
- Hume Pipe & Concrete Construction Company. (See Hume, Walter R., assignor.)
- Hume, Walter R., Adelaide, South Australia, Australia, assignor to Hume Pipe & Concrete Construction Company, Limited, London, England. Molding of concrete products. No. 1,390,134; Sept. 6; v. 290; p. 116.



- Humes, Guy B., Chicago, Ill. Attachment for reed musical instruments. No. 1,384,564; July 12; v. 288; p. 320.
- Humes, Guy B., Chicago, Ill. Horn-mute. No. 1,387,490; Aug. 16; v. 289; p. 426.
- Humes, Samuel J. (See Hughes, Thomas J., assignor.)
- Huml Corporation, The. (See Milne, George G., assignor.)
- Humiston, John M., Chicago, Ill. Rod-coupling. No. 1,389,661; Sept. 6; v. 290; p. 21.
- Hummel, Charles F., Roselle Park, N. J. High-pressure valve. No. 1,374,571; Apr. 12; v. 285; p. 272.
- Hummel, Charles F., Roselle Park, N. J. Cutting and welding torch. No. 1,390,440; Sept. 13; v. 290; p. 268.
- Hummel, Floyd A. (See Des Enfants, Ernest C., and Hummel.)
- Hummel, Frederick E., and J. J. Noeth, Chicago, Ill. Egg-poaching apparatus. No. 1,399,015; Dec. 6.
- Hummell, Harry, New York; F. W. Martin, and C. J. Schwall, Brooklyn, N. Y.; said Martin and Schwall assignors to said Hummell. Motion-picture reel and container therefor. No. 1,371,786; Mar. 15; v. 284; p. 497.
- Humphrey, Alfred H., New York, N. Y. Finishing metal surfaces. No. 1,373,430; Apr. 5; v. 285; p. 9.
- Humphrey, Alfred H., New York, N. Y. Gas-burner. No. 1,396,210; Nov. 8.
- Humphrey, Alfred H., New York, N. Y., assignor to General Gas Light Company, Kalamazoo, Mich. Gas-heater. No. 1,373,429; Apr. 5; v. 285; p. 9.
- Humphrey, Alfred H., New York, N. Y., assignor to General Gas Light Company, Kalamazoo, Mich. Gas-stove. No. 1,373,562; Apr. 5; v. 285; p. 36.
- Humphrey, Alfred H., New York, N. Y., assignor to General Gas Light Company, Kalamazoo, Mich. Making firebricks for gas-stoves. No. 1,396,209; Nov. 8.
- Humphrey, Alfred H. and G. A., New York, N. Y. Gas-burner. No. 1,388,433; Aug. 23; v. 289; p. 672.
- Humphrey, Church G., Wilcoe, W. Va. Automatic coupling for mine-cars. No. 1,368,153; Feb. 8; v. 282; p. 305.
- Humphrey, David, Cleveland, Ohio. Carbonating and dispensing apparatus. No. 1,373,075; Mar. 29; v. 284; p. 844.
- Humphrey, David, Cleveland, Ohio. Apparatus for bottling carbonated liquids. No. 1,373,817; Apr. 5; v. 285; p. 85.
- Humphrey, David L., and C. L. Pittman, Avoca, Tex. Re-agent for liquid-battery cells. No. 1,375,513; Apr. 19; v. 285; p. 515.
- Humphrey, Dwight E., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Method and apparatus for dusting articles. No. 1,400,289; Dec. 13.
- Humphrey, Ernest N., New Britain, Conn. Belt-buckle. No. 1,381,121; June 14; v. 287; p. 206.
- Humphrey, Ernest N., New Britain, Conn. Belt-buckle. No. 1,381,122; June 14; v. 287; p. 206.
- Humphrey, Ernest N., New Britain, Conn. Belt-buckle. No. 1,388,646; Aug. 23; v. 289; p. 712.
- Humphrey, Ernest N., New Britain, Conn. Belt-buckle. No. 1,395,713; Nov. 1.
- Humphrey, Ernest N., and O. E. Wardner, assignors to The Traut & Hine Mfg. Company, New Britain, Conn. Buckle. No. 1,384,066; July 12; v. 288; p. 216.
- Humphrey Gas Pump Company. (See Trump, E. N., and Friedrichs, assignors.)
- Humphrey, George A. (See Humphrey, Alfred H. and G. A.)
- Humphrey, Hubert R., Kalamazoo, Mich. Gas-burner. No. 1,396,211; Nov. 8.
- Humphrey, Ira G., Monroe, Mich. Detachable lug for tractor-wheels. No. 1,368,260; Feb. 15; v. 283; p. 374.
- Humphrey, John P., Springfield, Ill. Sunshade for vehicles. No. 1,393,130; Oct. 11.
- Humphreys, Benjamin F., Fresno, Calif. Oil-can. No. 1,372,228; Mar. 22; v. 284; p. 638.
- Humphries, Clinton C., Norfolk, Va. Device for moistening and wringing compresses. No. 1,397,423; Nov. 15.
- Humphris, Frank, Boscombe, England. Construction of adjustable spanners, wrenches, clamps, pipe-cutters, pipe-grips, and the like. No. 1,393,534; Oct. 11.
- Humphreys Manufacturing Company. (See Weaver, Thomas D., assignor.)
- Hunarian, Rafael A., San Francisco, Calif. Toy horse-mobile. No. 1,377,888; May 10; v. 286; p. 346.
- Hund, Walter J., Ross, Calif. Production of phenols from redwood. No. 1,365,407; Jan. 11; v. 282; p. 306.
- Hundley, James, Noblesville, Ind. Building construction. No. 1,391,897; Sept. 27; v. 290; p. 699.
- Hundley, James, Columbus, Ohio. Making steel. No. 1,394,172; Oct. 18.
- Huneryager, George J., Chicago, Ill. Scraper. No. 1,377,484; May 10; v. 286; p. 268.
- Hung, Jeang Ying. (See Beaumont, Edward D., assignor.)
- Hungerford, Oliver T., Belleville, N. J. Bomb. No. 1,372,141; Mar. 22; v. 284; p. 621.
- Hungerford, Warren H. (See Peters, F. M., and Hungerford.)
- Hunker, Martin L., Wheeling, W. Va., assignor to Whitaker-Glessner Company. Producing eaves-troughs. No. 1,377,251; May 10; v. 286; p. 223.
- Hunker, Martin L., Wheeling, W. Va., assignor to Whitaker-Glessner Company. Eaves-trough-forming machine. No. 1,377,252; May 10; v. 286; p. 223.
- Hunkins, William S., Los Angeles, Calif. Hose-supporter. No. 1,395,416; Nov. 1.
- Hunkins, William S., Los Angeles, Calif. Hose-supporter. No. 1,395,417; Nov. 1.
- Hunkins, William S., Los Angeles, Calif. Hose-supporter. No. 1,398,486; Nov. 29.
- Hunkins, William S., Los Angeles, Calif. Hose-supporter. No. 1,398,487; Nov. 29.
- Hunkins, William S., Los Angeles, Calif. Hose-supporter. No. 1,398,488; Nov. 29.
- Hunn, Clifton R. (See Campbell, Frederick H., assignor.)
- Hunn, Herman C., Osage City, Kans. Clutch-spring compressor. No. 1,372,350; Mar. 22; v. 284; p. 662.
- Hunn, Howard G., Chicago, Ill. Chair-iron. No. 1,368,726; Feb. 15; v. 283; p. 466.
- Hunnicut, Charles, Wilmington, Ohio. Hog-feeder. No. 1,367,971; Feb. 8; v. 283; p. 271.
- Hunsaker, Clarence C., San Luis Obispo, Calif. Railway-rail joint. No. 1,365,105; Jan. 11; v. 282; p. 248.
- Hunt, Alexander Geo., St. Louis, Mo. Fuel-saver and primer. No. 1,393,535; Oct. 11.
- Hunt, Alfred D. (See Dobbettin, Frederick J., assignor.)
- Hunt, C. W. Company. (See Pettit, Charles A., assignor.)
- Hunt, Charles A., Chino, Calif. Vehicle-spring. No. 1,389,135; Aug. 30; v. 289; p. 864.
- Hunt, Chester, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Last and device for attaching heels. No. 1,399,772; Dec. 13.
- Hunt-Crawford Co., The. (See Hunt, Robert T., assignor.)
- Hunt, David, assignor of one-half to J. T. Boyle, Houston, Tex. Pump. No. 1,374,923; Apr. 19; v. 285; p. 402.
- Hunt, Elijah H., Los Angeles, Calif. Cutter-head. No. 1,365,496; Jan. 11; v. 282; p. 323.
- Hunt, Elmer E., Chicago, Ill. Window-ventilator and the like. No. 1,383,811; July 5; v. 288; p. 115.
- Hunt, Floyd D., Burlington, Vt. Chair. No. 1,399,623; Dec. 6.
- Hunt, George, San Francisco, Calif. Filling-machine. No. 1,364,555; Jan. 4; v. 282; p. 98.
- Hunt, Herbert E., Philadelphia, Pa. Storage-battery container. No. 1,374,506; Apr. 12; v. 285; p. 259.
- Hunt, Herbert H., Oakland, Calif. Vehicle-signal. No. 1,396,212; Nov. 8.
- Hunt, Homer, Hartford, Conn. Ladder attachment. No. 1,393,536; Oct. 11.
- Hunt, Howard C., Pen Company. (See Thompson, Frank, assignor.)
- Hunt, Howard W., and F. E. Cardullo, Cincinnati, Ohio. Ratchet mechanism. No. 1,400,068; Dec. 13.
- Hunt, Howard W., assignor to The G. A. Gray Company, Cincinnati, Ohio. Transmission mechanism for machine-tools. No. 1,400,361; Dec. 13.
- Hunt, John H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Regulator. No. 1,372,073; Mar. 22; v. 284; p. 608.
- Hunt, John H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,374,205; Apr. 12; v. 285; p. 201.
- Hunt, John H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Locking device for ignition systems. No. 1,375,757; Apr. 26; v. 285; p. 593.
- Hunt, John H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Heating system. No. 1,395,496; Nov. 1.
- Hunt, Ludovic E., Springfield, Mo. Engine-indicator. No. 1,376,883; May 3; v. 286; p. 96.
- Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Battery-box. No. 1,382,980; June 28; v. 287; p. 669.
- Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Vehicle-wheel. No. 1,392,164; Sept. 27; v. 290; p. 753.
- Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Fluid-compressor for motor-vehicles. No. 1,394,835; Oct. 25.
- Hunt, Robert T., assignor to the Hunt-Crawford Co., Coshocton, Ohio. Ice-cream container. No. 1,376,770; May 3; v. 286; p. 73.
- Hunt, Seth B., trustee. (See Cohen, Mortimer J., assignor.)
- Hunt, Seth B., trustee. (See Ellis, C., and Cohen, assignors.)
- Hunt, Seth B., trustee. (See Ellis, C., and Wells, assignors.)
- Hunt, Seth B., trustee. (See Ellis, Carleton, assignor.)
- Hunt, Seth B., trustee. (See Mann, M. D., Jr., and Williams, assignors.)
- Hunt, Seth B., trustee. (See Mann, Matthew D., Jr., assignor.)
- Hunt, William J., St. Joseph, Mo. Spare-tire holder. No. 1,388,041; Aug. 16; v. 289; p. 536.
- Hunter Arms Company, The. (See Stafford, Francis A., assignor.)
- Hunter, David E., assignor to Shaw Walker Company, Muskegon, Mich. Index-card. No. 1,382,644; June 28; v. 287; p. 605.
- Hunter, Frank W., Kinzua, Pa. Shut-off for gas-wells. No. 1,377,966; May 10; v. 286; p. 361.
- Hunter Gas Engine and Development Company. (See Hunter, William J., assignor.)
- Hunter Gas Engine and Development Company, The. (See Kershaw, Edwin T., assignor.)



## Alphabetical list of patentees—Continued.

- Hunter, George C., New Haven, Conn. Band-saw machine. No. 1,381,418; June 14; v. 287; p. 260.
- Hunter, George E., Elgin, assignor, by mesne assignments, to Stewart-Warner Speedometer Company, Chicago, Ill. Combination timepiece and indicating device. No. 1,373,005; Mar. 29; v. 284; p. 831.
- Hunter, George L., Fletcher, Okla. Staple-puller. No. 1,392,765; Oct. 4.
- Hunter, Harry B., San Jose, Calif. Oil-burner. No. 1,385,132; July 19; v. 288; p. 519.
- Hunter, Herbert L., Cleveland, Ohio. Plumb-level and protractor. No. 1,400,069; Dec. 13.
- Hunter, John H., U. S. Army. Converting propellant powders into detonating explosives. No. 1,382,287; June 21; v. 287; p. 483.
- Hunter, John T., Sumrall, Miss. Churn-dasher. No. 1,388,042; Aug. 16; v. 289; p. 536.
- Hunter, Louis S. (See Curtis, H. K. and Hunter.)
- Hunter, Matthew A., Troy, N. Y., assignor to Driver-Harris Company, Harrison, N. J. Thermo-couple. No. 1,393,375; Oct. 11.
- Hunter, Philip V., Purley, and J. R. Beard, Benton, England, assignors to Electrical Improvements Limited, Newcastle-upon-Tyne, England. Protective arrangement for electric distribution systems. No. 1,389,306; Aug. 30; v. 289; p. 898.
- Hunter, Ray R., Terminal Island, Calif. Railway-tie tamper. No. 1,371,681; Mar. 15; v. 284; p. 478.
- Hunter, Richard B. (See Evans, C. T., and Hunter, assignors.)
- Hunter, Robert A. (See Carson, H. L., and Hunter.)
- Hunter, Robert L., Norfolk, Va. Flashlight. No. 1,392,165; Sept. 27; v. 290; p. 753.
- Hunter, Robert M., Lexington, Ky., assignor to The Dunham Company, Berea, Ohio. Implement draft appliance. No. 1,394,903; Oct. 25.
- Hunter, Thomas B., San Francisco, Calif. Fruit-drier. No. 1,370,211; Mar. 1; v. 284; p. 86.
- Hunter, Thomas B., San Francisco, Calif. Apparatus for cap-stemming raisins. No. 1,393,287; Oct. 11.
- Hunter, Thomas F., Chicago, Ill. Hoisting means. (Re-issue.) No. 15,028; Jan. 18; v. 282; p. 528.
- Hunter, William J., Denver Colo., assignor to The Hunter Gas Engine and Development Company. Engine. No. 1,375,514; Apr. 19; v. 285; p. 515.
- Huntingdon, Henry J., et al. (See Lippitt, Elihu, assignor.)
- Huntington, Charles V., Woodland, Calif. Housed ironing-board. No. 1,385,212; July 19; v. 288; p. 535.
- Huntley, Charles L., Milwaukee, Wis., assignor of one-half to J. A. Allen, Oregon City, one-fourth to J. E. Nicholson and one-fourth to J. I. Nicholson, Portland, Oreg. Variable-power hand air-pump. No. 1,390,559; Sept. 13; v. 290; p. 293.
- Huntley, Charles W., et al. (See Morgan, John H., assignor.)
- Huntley, George J., assignor to The Crown Cork & Seal Company of Baltimore City, Baltimore, Md. Filling-head. No. 1,371,244; Mar. 15; v. 284; p. 391.
- Huntoon, Charles F., Chicago, Ill. Brake-beam. No. 1,390,968; Sept. 13; v. 290; p. 375.
- Huntoon, William C., Providence R. I. Extruding collapsible tubes. No. 1,376,373; Apr. 26; v. 285; p. 711.
- Huntoon, William C., Providence R. I. Drawing collapsible tubes. No. 1,376,374; Apr. 26; v. 285; p. 711.
- Huntoon, William C., Providence R. I. Collapsible tube. No. 1,376,375; Apr. 26; v. 285; p. 711.
- Huntoon, William C., Providence R. I. Extruding collapsible tubes. No. 1,376,376; Apr. 26; v. 285; p. 712.
- Huntzinger, Ethan, Piqua, Ohio. Multiplying-camera. No. 1,365,999; Jan. 18; v. 282; p. 461.
- Hunzicker, Walter W., assignor to The Ohio Brass Company, Mansfield, Ohio. Reeling device. No. 1,366,184; Jan. 18; v. 282; p. 497.
- Hunziker, Gottlieb, Ruti, Zurich, Switzerland. Milling-machine. No. 1,364,933; Jan. 11; v. 282; p. 215.
- Huovine, Armos E., Hibbing, Minn. Wardrobe. No. 1,366,000; Jan. 18; v. 282; p. 461.
- Hupfel, Adolph G., Reno, Nev. Golf-ball-marking device. No. 1,395,418; Nov. 1.
- Hupman, Harper M., assignor to Michigan Optical Company, Detroit, Mich. Rim-clamp-attaching device. No. 1,387,491; Aug. 16; v. 289; p. 426.
- Hupp, Albert, Oak Park, Ill. Antivibration-support for vehicle-bodies. No. 1,367,660; Feb. 8; v. 283; p. 211.
- Hupp, Albert, Oak Park, Ill. Antivibration support for vehicle-bodies. No. 1,373,331; Mar. 29; v. 284; p. 896.
- Hupp, Albert, Oak Park, Ill. Spring-support for vehicles. No. 1,390,560; Sept. 13; v. 290; p. 293.
- Hupp, Albert, Washington, D. C., assignor, by mesne assignments, to Automatic Railway Mail Exchange Company, Chicago, Ill. Station-trough. No. 1,371,486; Mar. 15; v. 284; p. 440.
- Hurd, Arthur J., Wausau, Wis. Gardener's stool. No. 1,383,542; July 5; v. 288; p. 58.
- Hurd, Chauncey M., San Jose, Calif. Fruit gathering device. No. 1,366,001; Jan. 18; v. 282; p. 462.
- Hurd, Earl, New York, N. Y. Process of and apparatus for producing moving-picture films. No. 1,380,298; May 31; v. 286; p. 1001.
- Hurd, George H., Georgetown, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,393,783; Oct. 18.
- Hurd, Leigh G., Los Angeles, Calif. Hatpin-fastener. No. 1,365,591; Jan. 11; v. 282; p. 342.
- Hurd, Leigh G., Los Angeles, Calif. Hatpin-fastener. No. 1,368,154; Feb. 8; v. 283; p. 306.
- Hurd, Leigh G., Los Angeles, Calif. Hatpin-fastener. No. 1,394,304; Oct. 18.
- Hurd, Nettie M., Chicago, Ill. Hose-supporter. No. 1,374,572; Apr. 12; v. 285; p. 272.
- Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Adjustable telescopic connection for door-holders and the like. No. 1,365,829; Jan. 18; v. 282; p. 428.
- Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Adjustable telescopic connection for door-holders and the like. No. 1,365,830; Jan. 18; v. 282; p. 428.
- Hurd, Norman B., assignor to American Hardware Corporation, New Britain, Conn. Lock. No. 1,368,727; Feb. 15; v. 283; p. 466.
- Hurd, Norman B., assignor to American Hardware Corporation, New Britain, Conn. Duplicating-machine. No. 1,391,776; Sept. 27; v. 290; p. 674.
- Hurd, Zenus L., Nashville, Tenn. Non-slipping foot for ladder-legs. No. 1,382,833; June 28; v. 287; p. 641.
- Hurff, Lucien W., Galesburg, Ill. Ash-receiver. No. 1,364,556; Jan. 4; v. 282; p. 98.
- Hurlburt, David M., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic exposure mechanism. No. 1,383,305; July 5; v. 288; p. 10.
- Hurlburt, Frank, et al. (See Dvorak, Rudolph, assignor.)
- Hurlburt, Lawson U., Syracuse, N. Y. Vehicle-wheel. No. 1,382,087; June 21; v. 287; p. 415.
- Hurlburt, Watson, Chicago, Ill. Electrode for annealing and heating systems. No. 1,398,192; Nov. 22.
- Hurlbut, Edward G. (See Barnes, F. A., and Hurlbut.)
- Hurlbutt, Earl W., Lima, Ohio. Bag-holder. No. 1,375,590; Apr. 19; v. 285; p. 529.
- Hurley, Albert B., Wilmington, assignor to L. W. Hurley, Seaford, Del. Educational device. No. 1,394,305; Oct. 18.
- Hurley, John C., Newark, N. J. Wrench. No. 1,386,708; Aug. 9; v. 289; p. 219.
- Hurley, John F., Denver, Colo. Wax-finish remover. No. 1,380,299; May 31; v. 286; p. 1002.
- Hurley, Joseph E., Jeannette, Pa. Glass-tank furnace. No. 1,390,614; Sept. 13; v. 290; p. 804.
- Hurley, L. W. (See Hurley, Albert B., assignor.)
- Hurley Machine Company. (See Fisher, Alva J., assignor.)
- Hurley Machine Company. (See Wood, James J., assignor.)
- Hurley, Richard, assignor to A. E. Paige, Philadelphia, Pa. Composition for coating aluminum and making same. No. 1,372,290; Mar. 22; v. 284; p. 651.
- Hurley, Roy T. (See Blodgett, G. R., Cheney, and Hurley.)
- Hurley, Roy F., Galesville, Wis. Sterilizing holder for toothbrushes. No. 1,364,557; Jan. 4; v. 282; p. 99.
- Hurley, W. T., and E. L. Engle, Sacramento, Calif. Oil-burner. No. 1,370,816; Mar. 8; v. 284; p. 248.
- Hurlmann, Ernst. (See Schneider, J., Hurlmann, and Billon.)
- Hurlstone-Jones, Amy L., London, England. Apparatus for playing games and for physical culture. No. 1,372,351; Mar. 22; v. 284; p. 662.
- Hursey, William R., Asheville, N. C., assignor of one-fourth to B. H. Oates, Tuscaloosa, Ala. Flush-tank. No. 1,381,465; June 14; v. 287; p. 268.
- Hurst, Albert E., assignor to Textile Publishing Company, New York, N. Y. Display device. No. 1,386,623; Aug. 9; v. 289; p. 201.
- Hurst, Frederick W., Logan, Utah. Ironing-cabinet. No. 1,387,721; Aug. 16; v. 289; p. 473.
- Hurst, Hugh F., Richmond, Va. Label printing or stamping machine. No. 1,374,374; Apr. 12; v. 285; p. 233.
- Hurst, Willis T., Pittsburgh, Pa., assignor to Slag Rock Machine Company. Apparatus for coating pig-metal-casting machine. No. 1,384,760; July 19; v. 288; p. 442.
- Hut, Henry H., New York, N. Y. Waterproofing material and making the same. No. 1,400,164; Dec. 13.
- Hurt, James W., York, Nebr. Grain-elevator. No. 1,401,909; Dec. 27.
- Hurt, Samuel N., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,397,521; Nov. 22.
- Hurvig, Paul H., and C. H. Menton, Katrineholm, Sweden. Motor plow or cultivator. No. 1,398,859; Nov. 29.
- Hurtt, Christopher S., Portland, Oreg. Trolling device. No. 1,400,821; Dec. 20.
- Hurwitz, Abraham, New York, N. Y. Watch-protector. No. 1,372,697; Mar. 29; v. 284; p. 769.
- Hurwitz, Samuel J., Youngstown, Ohio. Vulcanizing device. No. 1,383,951; July 5; v. 288; p. 143.
- Hurwitz, Samuel J., Youngstown, Ohio. Rim-tool. No. 1,392,943; Oct. 11.
- Husa, Joseph F., Chicago, Ill. Clamp. No. 1,381,308; June 14; v. 287; p. 239.
- Husar, Frank Z., Chicago, Ill. Abdominal support. No. 1,399,386; Dec. 6.
- Huseby, Albert A., Chicago, Ill. Automatic starting and stopping device for talking-machines. No. 1,394,173; Oct. 18.



- Huseman, Charles, St. Louis, Mo. Convertible child's wagon, coaster, and scooter. No. 1,395,497; Nov. 1.
- Hüsi, Ernst, Solothurn, Switzerland. Support for photographic apparatus. No. 1,372,431; Mar. 22; v. 284; p. 677.
- Hussa, Theodore F., Montclair, N. J. Singeing apparatus. No. 1,374,375; Apr. 12; v. 285; p. 233.
- Hussa, Theodore F., Montclair, N. J. Singeing threads. No. 1,374,376; Apr. 12; v. 285; p. 234.
- Hussander, Arthur F., Chicago, Ill. Seat and cushion construction. No. 1,368,397; Feb. 15; v. 283; p. 401.
- Hussar, Julius A., Cleveland, Ohio. Automobile-radiator. No. 1,401,604; Dec. 27.
- Hussey, Charles F., Milwaukee, Wis. Counter. No. 1,370,540; Mar. 8; v. 284; p. 194.
- Hussey, John A., De Kalb, Ill. Pianissimo device for grand pianos. No. 1,392,331; Oct. 4.
- Hussey, John M., Wichita, Kans. Freezing and preserving eggs. No. 1,398,860; Nov. 29.
- Hussman, George J., St. Louis, Mo. Composition for masking the acid taste of Epsom salt. No. 1,375,154; Apr. 19; v. 285; p. 447.
- Husson, Arthur C., Snider township, Sudbury, Ontario, Canada. Pipe-wrench. No. 1,365,784; Jan. 18; v. 282; p. 419.
- Hussong Dyeing Machine Company. (See Thompson, James H., assignor.)
- Husted, Lemuel J., Kansas City, Mo. Firing instrument for marine mines. No. 1,387,722; Aug. 16; v. 289; p. 473.
- Husted, Monroe G., Bridgeton, N. J. Automatic feed and reverse for lathes. No. 1,393,131; Oct. 11.
- Husted, Monroe G., Bridgeton, N. J. Lathe attachment. No. 1,401,702; Dec. 27.
- Huston, Claudius H., Chattanooga, Tenn. Metal article and jointing the same. No. 1,369,109; Feb. 22; v. 283; p. 579.
- Huston, Dwight W., Springfield, Ohio. Display-sign. No. 1,377,889; May 10; v. 286; p. 346.
- Huston, Marcus D., Kokomo, Ind. Automatic car-coupling. No. 1,372,817; Mar. 29; v. 284; p. 793.
- Huston, Thomas, Kokomo, Ind. Farm-gate. No. 1,395,574; Nov. 1.
- Hutch, August, Chicago, Ill. Stove-board. No. 1,387,402; Aug. 9; v. 289; p. 358.
- Hutchens, Edward. (See Scherner, J., and Hutchens.)
- Hutches, Benjamin F., Jr., Allendale, N. J. Stylus-picker. No. 1,368,728; Feb. 15; v. 283; p. 466.
- Hutcheson, Thomas C., Newton, assignor to United Drug Company, Boston, Mass. Display device. No. 1,384,727; July 12; v. 288; p. 354.
- Hutchings, Charles E. (See Metcalf, B. A., and Hutchings.)
- Hutchings, Charles E. (See Ruttan, A. A., and Hutchings.)
- Hutchings, Charles E., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-plate holder. No. 1,380,209; May 31; v. 286; p. 985.
- Hutchingson, Charles L., assignor to Cameron Machine Company, Brooklyn, N. Y. Machine for the simultaneous slitting and artificial selvaging of fabrics. No. 1,368,933; Feb. 15; v. 283; p. 505.
- Hutchins, Arthur W., Cranston, assignor to Perry and Hutchins Laundry Appliance Company, Incorporated, Providence, R. I. Ironing device. No. 1,382,360; June 21; v. 287; p. 497.
- Hutchins Car Roofing Company. (See Hawksworth, David W., assignor.)
- Hutchins Car Roofing Company. (See Whyte, Frederick M., assignor.)
- Huthins, Carl B., Algona, Iowa. Disk-sharpener. No. 1,374,012; Apr. 5; v. 285; p. 123.
- Hutchins, Henry M., New York, N. Y. Display-stand. No. 1,395,419; Nov. 1.
- Hutchinson, Archie L., San Francisco, Calif. Window-frame. No. 1,389,136; Aug. 30; v. 289; p. 864.
- Hutchinson, Charles W., Milwaukee, Wis. Toy-flying-machine motor. No. 1,365,917; Jan. 18; v. 282; p. 446.
- Hutchinson, David M., *et al.* (See Hachmann, Frederick, assignor.)
- Hutchinson, Ely C. (See McAulay, C. B., and Hutchinson.)
- Hutchinson, Ely C., Oakland, and E. W. Anderson, assignors to Pelton Water Wheel Company, San Francisco, Calif. Spiral casing. No. 1,380,065; May 31; v. 286; p. 958.
- Hutchinson, Frank L., assignor to Sterling Engineering Co., Milwaukee, Wis. Steam-trap. No. 1,382,645; June 28; v. 287; p. 606.
- Hutchinson, George, Fall River, Mass. Spool for winding warps and other purposes. No. 1,378,412; May 17; v. 286; p. 497.
- Hutchinson, George L., Los Angeles, Calif. Apparatus for utilizing wave force. No. 1,366,002; Jan. 18; v. 282; p. 462.
- Hutchinson, Hubert. (See Le Fevre, G. A., and Hutchinson, H.)
- Hutchinson, Job, Brooklyn, N. Y. Internal-combustion engine. No. 1,370,541; Mar. 8; v. 284; p. 194.
- Hutchinson, Job, Brooklyn, N. Y. Internal-combustion engine. No. 1,370,542; Mar. 8; v. 284; p. 194.
- Hutchinson, Job, Brooklyn, N. Y. Four-cycle internal-combustion engine. No. 1,378,352; May 17; v. 286; p. 485.
- Hutchinson, Job, Brooklyn, N. Y. Internal-combustion engine. No. 1,393,132; Oct. 11.
- Hutchinson, John, Toronto, Ontario, Canada. Stand for bicycles. No. 1,374,452; Apr. 12; v. 285; p. 249.
- Hutchinson, John E., Aspinwall, Pa., assignor to J. F. Henderson, Pittsburgh, Pa. Material for purifying gas. No. 1,370,494; Mar. 1; v. 284; p. 140.
- Hutchinson, John E., Aspinwall, Pa., assignor to J. F. Henderson, Pittsburgh, Pa. Material for purifying gas and manufacturing the same. No. 1,370,495; Mar. 1; v. 284; p. 140.
- Hutchinson, Joseph, Montreal, Quebec, Canada. Restaurant service device. No. 1,397,809; Nov. 22.
- Hutchinson, Joseph T., V. Shaw, and F. Barnes, Vancouver, Canada, assignors to Steeled Skylight Co., Seattle, Wash. Glazing-bar and making the same. No. 1,367,187; Feb. 1; v. 283; p. 60.
- Hutchinson, Mackintosh, Toronto, Ontario, Canada. Woodworking-machine. No. 1,369,744; Feb. 22; v. 283; p. 703.
- Hutchinson, Mackintosh, Toronto, Canada. Ash-sifter. No. 1,383,812; July 5; v. 288; p. 115.
- Hutchinson, William S., Bethlehem, Pa. Floor construction. No. 1,368,557; Feb. 1; v. 283; p. 432.
- Hutchinson, William S., Bethlehem, Pa. Girder. No. 1,369,340; Feb. 22; v. 283; p. 623.
- Hutchison, Miller R., West Orange, N. J. Paper-fastening machine. No. 1,365,408; Jan. 11; v. 282; p. 306.
- Hutsell Motor Company, The. (See Hutsell, Thomas A., assignor.)
- Hutsell, Thomas A., assignor to The Hutsell Motor Company, Spokane, Wash. Engine construction. No. 1,375,049; Apr. 19; v. 285; p. 427.
- Huth, Walter H., Chicago, Ill. Automatically-reversible mechanical toy. No. 1,386,258; Aug. 2; v. 289; p. 59.
- Huth, Walter H., Chicago, Ill. Automatically-reversible mechanical toy. No. 1,388,113; Aug. 16; v. 289; p. 550.
- Huth, Walter H., Chicago, Ill. Musical instrument for teaching. No. 1,392,766; Oct. 4.
- Huther Bros. Saw Mfg. Co. (See Huther, Warren B., assignor.)
- Huther, Warren B., assignor to Huther Bros. Saw Mfg. Co., Rochester, N. Y. Inserted-tooth cutter-head and making the same. No. 1,376,438; May 3; v. 286; p. 12.
- Hutsell Motor Company, The. (See Hutsell, Thomas A., assignor.)
- Hutsell, Thomas A., assignor to The Hutsell Motor Company, Spokane, Wash. Piston construction. No. 1,378,353; May 17; v. 286; p. 485.
- Hutsell, Thomas A., assignor to The Hutsell Motor Company, Spokane, Wash. Internal-combustion engine. No. 1,391,189; Sept. 20; v. 290; p. 482.
- Hutter, Francis, New York, N. Y., assignor to The McCall Company. Garment-pattern. No. 1,387,723; Aug. 16; v. 289; p. 474.
- Hutter, Franz, New York, N. Y., assignor to The McCall Company. Pattern-envelope. No. 1,375,292; Apr. 19; v. 285; p. 473.
- Hutter, William H., Evanston, Ill. Self-resistor exercising device. No. 1,372,026; Mar. 22; v. 284; p. 600.
- Hutterer, Edward G., Sarnborn, Iowa. Truss. No. 1,381,123; June 14; v. 287; p. 206.
- Huttig, Fred. (See Grode, F. P., and Huttig.)
- Huttinger, Charles A., Lakewood, and E. Rittenhouse, assignors to The Acme Woolen-Cotton Mills Company, Cleveland, Ohio. Producing threads from viscose. No. 1,367,603; Feb. 8; v. 283; p. 200.
- Hutton, A. W., *et al.* (See Gable, Jacob W., assignor.)
- Hutton, Edward S., Lapel, Ind. Glass-discharging mechanism. No. 1,391,957; Sept. 27; v. 290; p. 711.
- Hutton, Edward S., Lapel, Ind. Machine for making hollow glassware. No. 1,394,092; Oct. 18.
- Hutton, Edward S., Lapel, Ind. Glass-discharging mechanism. No. 1,394,677; Oct. 25.
- Hutton, Frank O., Sacramento, Calif. Canning machinery. No. 1,393,288; Oct. 11.
- Huxley, Maurice F., Hendon, London, England. Aerofoil. No. 1,376,337; Apr. 26; v. 285; p. 705.
- Huyck, F. C., & Sons. (See MacInnes, Duncan A., assignor.)
- Huyett, Daniel D., and A. L. Register, assignors to Vacuum Refrigeration Company, Philadelphia, Pa. System of control for intermittent-absorption refrigerating plants. No. 1,376,884; May 3; v. 286; p. 96.
- Huyler's. (See Bonestell, Blanche, assignor.)
- Huyler's. (See Porter, Adelaide M., assignor.)
- Hyams, Anita G., and F. A. San Rafael, Calif. Sack-lining machine. No. 1,381,419; June 14; v. 287; p. 260.
- Hyams, Francis A. (See Hyams, Anita G., and F. A.)
- Hyatt Bearings Division, General Motors Corporation. (See Knoth, Conrad, assignor.)
- Hyatt, George, Toledo, Ohio. Furniture. No. 1,365,831; Jan. 18; v. 282; p. 429.
- Hyatt, George H., *et al.* (See Godbey, Walter H., Jr., assignor.)
- Hyatt Roller Bearing Company. (See Lockwood, Charles S., assignor.)
- Hyatt Roller Bearing Company. (See Pierce, Almon J., assignor.)
- Hyatt Roller Bearing Division, United Motors Corporation. (See Lockwood, Charles S., assignor.)



## Alphabetical list of patentees—Continued.

- Hybinette, Noak V., Christiania, Norway. Separating metals by electrolysis. No. 1,395,827; Nov. 1.
- Hybinette, Noak V., Christiania, Norway, and R. L. Peek, Ottawa, Canada. Refining copper-nickel matte. No. 1,382,361; June 21; v. 287; p. 497.
- Hyde, Charles L., Plainfield, N. J. Support for tubs and the like. No. 1,393,023; Oct. 11.
- Hyde, Elbert L., Cleveland, assignor of one-half to W. Dunham and one-half to Columbia Chemical Company, Barberton, Ohio. Hand-truck. No. 1,365,106; Jan. 11; v. 282; p. 248.
- Hyde, Frank, Sioux Falls, S. D. Fastening device. No. 1,373,507; Apr. 5; v. 285; p. 25.
- Hyde, John H., Louisville, Ky. Toy vehicle. No. 1,399,212; Dec. 6.
- Hyde, Josie, *et al.* (See Packwood, Charles W., assignor.)
- Hyde, Park B., East Orange, N. J. Primary cell. No. 1,369,813; Mar. 1; v. 284; p. 12.
- Hyde, William A., Cambridge, Mass. Postal scale. No. 1,367,972; Feb. 8; v. 283; p. 271.
- Hyder, Henry H., Hollywood, Calif. Wireless apparatus. No. 1,379,589; May 24; v. 286; p. 793.
- Hydraulic Oil System Corporation. (See Farr, Frederick G., assignor.)
- Hydraulic Pressed Steel Company, The. (See Brainard, George C., assignor.)
- Hydraulic Pressed Steel Company, The. (See Culhane, Patrick J., Jr., assignor.)
- Hydraulic Pressed Steel Company. (See Davidson, Harry O., assignor.)
- Hydraulic Pressed Steel Company, The. (See Edwards, William R., assignor.)
- Hydraulic Pressed Steel Company, The. (See Foster, Emory M., assignor.)
- Hydraulic Pressed Steel Company. (See Foster, Henry J., assignor.)
- Hydraulic Pressed Steel Company. (See Gase, George A., assignor.)
- Hydraulic Pressed Steel Company, The. (See Klaus, Fred R., assignor.)
- Hydraulic Pressed Steel Company, The. (See Leffler, Ralph R., assignor.)
- Hydraulic Pressed Steel Company, The. (See Tait, William S., assignor.)
- Hydrex Engineering Corporation. (See Hanau, Rudolph L., assignor.)
- Hydro-Hoist Company. (See Smight, Frank B., assignor.)
- Hydronyl Syndicate. (See Linder, S. E., and Lessing, assignors.)
- Hyland, Charles. (See Flannery, John R., Dodds, and Hyland.)
- Hyle, Jacob A., Philadelphia, Pa. Railway-rail joint. No. 1,388,184; Aug. 23; v. 289; p. 620.
- Hyman, Henry, & Co. (See Drufva, John T., assignor.) (Reissue.)
- Hyman, Herbert R., Indianapolis, Ind., and T. B. Messick, Toledo, Ohio. Making background for commercial advertising. No. 1,368,033; Feb. 8; v. 283; p. 282.
- Hyman, Max R., Indianapolis, Ind. Expandible septic tank. No. 1,389,553; Aug. 30; v. 289; p. 947.
- Hyman & Oppenheim. (See Goldman, Isaac, assignor.)
- Hymans, Frederick. (See Lindquist, D. L., and Hymans.)
- Hymans, Frederick, Glen Ridge, assignor to Otis Elevator Company, Jersey City, N. J. Cushion-brake. No. 1,399,560; Dec. 6.
- Hynes, Dibrell P., Evanston, Ill. Flotation-machine. No. 1,394,306; Oct. 18.
- Hynes, Dibrell P., Chicago, Ill. assignor to Roseberry Surprise Mining Co., Ltd., Sandon, British Columbia, Canada. Filtration. No. 1,373,887; Apr. 5; v. 285; p. 99.
- Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Weatherproof electric heater. No. 1,384,067; July 12; v. 288; p. 217.
- Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Electric heater. No. 1,385,376; July 26; v. 288; p. 644.
- Hynes, Lee P., assignor to Consolidated Car Heating Company, Albany, N. Y. Waterproof electric heater. No. 1,389,307; Aug. 30; v. 289; p. 898.
- Hynes, Lee P., assignor to Consolidated Car Heating Company, Albany, N. Y. Electric switch. No. 1,392,332; Oct. 4.
- Hynes, Lee P., assignor to Consolidated Car Heating Company, Albany, N. Y. Car-heater. No. 1,392,686; Oct. 4.
- Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Door-control system. No. 1,396,757; Nov. 15.
- Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Electric car-heating system. No. 1,398,521; Nov. 29.
- Hynes, Lee P., assignor to Consolidated Car Heating Company, Albany, N. Y. Electric car-heater. No. 1,398,522; Nov. 29.
- Hypergraph Company, The. (See Browne, Nat B., assignor.)
- Hyre, Jacob E., Urbana, Ill. Eaves-trough and support. No. 1,401,703; Dec. 27.
- Hysell, Elmer, College Hill, assignor of one-half to C. E. Ruble, Rochester, Pa. Sadiron. No. 1,400,437; Dec. 13.
- Hysom, Cornelius B., Santa Cruz, Calif. Fruit gager and gatherer. No. 1,376,338; Apr. 26; v. 285; p. 705.
- Iacobitti, Giuseppe, Crockett, Calif. Lump-sugar-packing machine. No. 1,377,775; May 10; v. 286; p. 323.
- Iaculli, Peter, Boston, Mass. Innersole. No. 1,370,212; Mar. 1; v. 284; p. 86.
- Iannelle, Louis, Boston, Mass. Detachable shoe-heel. No. 1,393,784; Oct. 18.
- Ibach, Bute. (See Lawrence, Richard N., assignor.)
- Ibach, Emil, assignor to Budd Wheel Corporation, Philadelphia, Pa. Hub-cap-locking device. No. 1,391,118; Sept. 20; v. 290; p. 468.
- Ibach, Emil, assignor to Budd Wheel Corporation, Philadelphia, Pa. Milling-fixture. No. 1,371,374; Mar. 15; v. 284; p. 417.
- Ibbotson, Frank, *et al.* (See Charlton, George, assignor.)
- Ibbott, Harold W., assignor to Negretti and Zambra, London, England. Bourdon tube. No. 1,385,133; July 19; v. 288; p. 520.
- Ibex Rubber Corporation. (See Atcheson, Robert H., assignor.)
- Ickenroth, Anthony, Clayton, Mo. Roller-skate brake. No. 1,371,623; Mar. 15; v. 284; p. 466.
- Ickes, Peter C., assignor of one-half to E. T. Neyhard, Chanute, Kans. Knockdown tank. No. 1,381,877; June 14; v. 287; p. 347.
- Ickes, Peter G., Chanute, Kans. Railway-tie. No. 1,394,624; Oct. 25.
- Iconochrome Company of America. (See John, Robert, assignor.)
- Icy-Hot Bottle Company, The. (See Altenberg, George P., assignor.)
- Icy-Hot Bottle Company. (See Lindahl, Erick P., assignor.)
- Iddings, Roscoe C., Dayton, Ohio. Fire-extinguisher. No. 1,390,035; Sept. 6; v. 290; p. 96.
- Ide, Geo. P., & Company. (See Becker, Donald B., assignor.)
- Ide, Harry H., La Grange, assignor to Kellogg-Switchboard and Supply Company, Chicago, Ill. Telephone system. No. 1,381,195; June 14; v. 287; p. 219.
- Ide, Harry L., Springfield, Ill. Electrical transformer. No. 1,394,555; Oct. 25.
- Ide, Roy W., Springfield, Ill. Illuminating system. No. 1,370,747; Mar. 8; p. 284; p. 234.
- Ideal Electric & Manufacturing Co., The. (See Schou, T., and Behrens, assignors.)
- Ideal Electric & Manufacturing Co., The. (See Schou, Theodor, assignor.)
- Ideal Electric & Mfg. Co., The. (See Bewlay, Henry, assignor.)
- Ideal Products Company. (See Anderson, William M., assignor.)
- Ideal Wrapping Machine Company. (See Lietz, Charles J., assignor.)
- Iftiger, William C., Watts, Calif. Coupling. No. 1,383,209; June 28; v. 287; p. 713.
- Igarashi, Masamichi, Tokyo, Japan. Railway-sleeper. No. 1,366,385; Jan. 25; v. 282; p. 580.
- Iggberg, Frederick W., assignor to Logansport Machine Company, Logansport, Ind. Chuck. No. 1,366,003; Jan. 18; v. 282; p. 462.
- Igo, Joseph H., Chicago, Heights, Ill. Jacking attachment for motor-vehicles. No. 1,375,515; Apr. 19; v. 285; p. 515.
- Igo, Joseph H., and W. T. McKay, Chicago Heights, Ill. Lock for motor-vehicles. No. 1,387,156; Aug. 9; v. 289; p. 308.
- Ihnat, Joe, Nashua, Mont. Cattle-guard for railway-crossings. No. 1,391,384; Sept. 20; v. 290; p. 522.
- Ihrig, Justus K. (See Ihrig, Peter J., assignor.)
- Ihrig, Peter J., assignor of one-half to J. K. Ihrig, Springfield, Ohio. Portable tree-holder. No. 1,401,259; Dec. 27.
- Iiams, George E. (See Dority, R., Iiams, and Breining.)
- Ijams, George E. (See Dority, R., and Breining, assignors.)
- Ike, Malcome, C. Owings, C. Butcher, and M. Dawson, Morral, Ohio. Shock-absorber. No. 1,373,332; Mar. 29; v. 284; p. 896.
- Ikeda, Sumiyuki, assignor to Tomoda Goshi Kaisha, Tokyo, Japan. Preparing gelatin tubes for medicinal purposes. No. 1,390,788; Sept. 13; v. 290; p. 339.
- Ile, William. (See Kurowski, Alfred G. F., assignor.)
- Ile, William, Lynbrook, assignor to Hermes Electric Manufacturing Company, New York, N. Y. Electric plug-receptacle. (Reissue.) No. 15,251; Dec. 20.
- Iford, Limited. (See Rewick, F. F., and Bloch, assignors.)
- Iles, Elijah J., and O. L. Hastings, assignors to Alexandria Potato Curing Company, Inc., Alexandria, La. Curing-house for sweet potatoes. (Reissue.) No. 15,156; July 19; v. 288; p. 563.
- Iiff, Lloyd G., Kansas City, Mo. Plug-micrometer. No. 1,396,117; Nov. 8.
- Ilg, Max J., Nuremberg, Germany, assignor to Siemens-Schuckert Werke G. M. B. H. Siemensstadt, near Berlin, Germany. Wedge or key for slotted dynamo-electric-machine elements. No. 1,375,699; Apr. 26; v. 285; p. 583.
- Iligan, Carl, East Elmhurst, and R. Hessel, Hollis, N. Y. Button. No. 1,367,547; Feb. 8; v. 283; p. 190.
- Illich, Amson G., New York, N. Y. Attachment-hook for safety-belts. No. 1,374,738; Apr. 12; v. 285; p. 304.



*Alphabetical list of patentees—Continued.*

- Illig, Teinrich, Frankfort-on-the-Main, Germany. Screen. No. 1,375,659; Apr. 19; v. 285; p. 543.
- Illingworth, George C., Cincinnati, Ohio. Stoker for furnaces. No. 1,392,063; Sept. 27; v. 290; p. 733.
- Illingworth, William H., Halifax, England. Electrical cut-out or circuit breaker. No. 1,392,873; Oct. 4.
- Illinois Iron & Bolt Company. (See Fierke, John F., assignor.)
- Illinois Tool Works. (See Olson, C., and Trbojevich, assignors.)
- Illinois Tool Works. (See Olson, C. G., and England, assignors.)
- Illinois Tool Works. (See Olson, Carl G., assignor.)
- Illinois Watch Case Company. (See Hathaway, Thomas F., assignor.)
- Illinois Watch Case Company. (See Wittman, Edward J., assignor.)
- Illinois Wire & Mfg. Co. (See Adam, Folger, assignor.)
- Imber, Jack, London, England. Tank or receptacle for combustible or other liquids. No. 1,392,892; Oct. 4.
- Imhoff, Joseph A., assignor to Invisible Color Print Corporation, New York, N. Y. Producing color-prints. No. 1,384,663; July 12; v. 288; p. 342.
- Imhoff, August M., Berne, assignor to Imhoff Motor Co., A. G., Interlaken, Switzerland. Two-stroke internal-combustion engine. No. 1,374,573; Apr. 12; v. 285; p. 272.
- Imhoff, John H., assignor, by mesne assignments, to Johnson Automobile Lock Co., Chicago, Ill. Gear-shift and ignition lock. No. 1,378,033; May 17; v. 286; p. 425.
- Imhoff, Karl, and H. Blunk, Essen-on-the-Ruhr, Germany. Treating sludge. No. 1,399,561; Dec. 6.
- Imhoff, Karl, Essen-on-the-Ruhr, Germany. Settling-tank for sewage clarification. No. 1,399,562; Dec. 6.
- Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
- Imhoff Motor Co., A. G. (See Imhoff, August M., assignor.)
- Imlay, James W. (See Hoover, Edgar B., assignor.)
- Imlach, William G., Berwyn, Ill. Making rails for printing-plates. No. 1,392,502; Oct. 4.
- Immer, Szczepan, New York, N. Y. Road-cleaner. No. 1,392,166; Sept. 27; v. 290; p. 753.
- Imperial Brass Manufacturing Company, The. (See Dobrick, August C., assignor.)
- Imperial Brass Manufacturing Company, The. (See Rudolph, Walter J., assignor.)
- Imperial Brass Manufacturing Company, The. (See Rudolph, Walter J., assignor.)
- Imperial Postmarkers, Limited. (See Robertson, D., and Simpson, assignors.)
- Imperial Underwear Company, The. (See Campbell, Clinton A., assignor.)
- Imrie, Carl B., New York, N. Y. Heel-support. No. 1,380,477; June 7; v. 287; p. 29.
- Inches, David, Vancouver, British Columbia, Canada. Card-displaying device. No. 1,369,245; Feb. 22; v. 283; p. 605.
- Indahl, Mauritz C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Low-quad mold. No. 1,372,074; Mar. 22; v. 284; p. 609.
- Indahl, Mauritz C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Typographic machine. No. 1,378,413; May 17; v. 286; p. 497.
- Indahl, Mauritz C., assignor to Lanston Monotype Machine Company, Philadelphia, Pa. Strip-perforator. No. 1,378,414; May 17; v. 286; p. 497.
- Independent Pneumatic Tool Company. (See Du Sell, Giles H., assignor.)
- Independent Pneumatic Tool Company. (See Levedahl, Axel, assignor.)
- Independent Pneumatic Tool Company. (See Norling, Reinhold A., assignor.)
- Independent Stove Company. (See Robinson, William V., assignor.)
- Indera Mills, The. (See Siewers, Walter L., assignor.)
- India Rubber Company. (See Weida, Harry, assignor.)
- India Tire & Rubber Company, The. (See Lerch, William G., assignor.)
- Indiana Canning Machinery Co. (See Lowe, Harry W., assignor.)
- Indiana Lamp Company. (See De Martin, C. L., and Matteoli, assignors.)
- Indiana Lamp Company. (See De Martin, Charles L., assignor.)
- Indiana Lamp Company. (See Foster, Harry C., assignor.)
- Indiana Lamp Company. (See Foster, H. C. and Thomas, assignors.)
- Indiana Lamp Company. (See Foster, Harry C., assignor.)
- Indiana Lamp Company. (See Matteoli, William M., assignor.)
- Individual Drinking Cup Company. (See Luellen, L. W., and Wessman, assignors.)
- Individual Drinking Cup Company. (See Luellen, Lawrence W., assignor.)
- Individual Drinking Cup Company. (See Moore, Hugh, assignor.)
- Industrial Chemical Company. (See Wickenden, Leonard, assignor.)
- Industrial Controller Company. (See Magin, Francis W., assignor.)
- Industrial Controller Company. (See Van Valkenburg, Herman L., assignor.)
- Industrial Electric Furnace Company. (See Snyder, Frederick T., assignor.)
- Industrial Products Company (See Shipman, Emanuel F., assignor.)
- Industrial Research Co. (See Dolbear, Clinton E., assignor.)
- Industrial Research Corporation. (See Brockway, Carl P., assignor.)
- Industrial Research Corporation. (See Davies, Henry R., assignor.)
- Industrial Research Corporation. (See Des Jardins, Clarence B., assignor.)
- Industrial Research Corporation. (See Green, C. F., and Lindsey, assignors.)
- Industrial Research Corporation. (See Jessen, James, assignor.)
- Industrial and Research Laboratories. (See Carter, William W., assignor.)
- Industrial Research Laboratories, The. (See Gerlach, O., and Lihme, assignors.)
- Industrial Track Construction Company. (See Billman, Henry E., assignor.)
- Ingels, James, Springfield, Ill. Pedal-pin. No. 1,375,003; Apr. 19; v. 285; p. 417.
- Ingersoll, Howard L. (See Brown, Ray M., assignor.)
- Ingersoll, Howard L., White Plains, N. Y. Booster-motor for locomotives. No. 1,375,293; Apr. 19; v. 285; p. 474.
- Ingersoll, Howard L., White Plains, N. Y. Booster-motor for locomotives. No. 1,383,633; July 5; v. 288; p. 78.
- Ingersoll, Howard L., White Plains, N. Y. Control of booster-motors for locomotives. No. 1,388,647; Aug. 23; v. 289; p. 712.
- Ingersoll, Jessie B., special administratrix. (See Ingersoll, Robert F.)
- Ingersoll, John W. (See Thiele, A. A., and Ingersoll.)
- Ingersoll, Leland, assignor to The A. S. Gilman Printing Co., Cleveland, Ohio. Multiple form and making it. No. 1,368,729; Feb. 15; v. 283; p. 466.
- Ingersoll, Leland, assignor to The A. S. Gilman Printing Co., Cleveland, Ohio. Manifold-form sheet. No. 1,385,832; July 26; v. 288; p. 737.
- Ingersoll-Rand Company. (See Bancel, Paul A., assignor.)
- Ingersoll-Rand Company. (See Bayles, L. C., and Slater, assignors.)
- Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
- Ingersoll-Rand Company. (See Carpenter, Allan O., assignor.)
- Ingersoll-Rand Company. (See Christmas, Adolph F., assignor.)
- Ingersoll-Rand Company. (See Cone, Joseph D., assignor.)
- Ingersoll-Rand Company. (See Ditson, Jesse, assignor.)
- Ingersoll-Rand Company. (See Douglass, Richard W., assignor.)
- Ingersoll-Rand Company. (See Guiley, Henri A., assignor.)
- Ingersoll-Rand Company. (See Haight, Harry V., assignor.)
- Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
- Ingersoll-Rand Company. (See Hart, Thomas J., assignor.)
- Ingersoll-Rand Company. (See Hoffman, Paul, assignor.)
- Ingersoll-Rand Company. (See Huff, Leslie R., assignor.)
- Ingersoll-Rand Company. (See Lundell, Robert A., assignor.)
- Ingersoll-Rand Company. (See Jimerson, Francis A., assignor.)
- Ingersoll-Rand Company. (See Kirgan, John F., assignor.)
- Ingersoll-Rand Company. (See Parsons, Frederick W., assignor.)
- Ingersoll-Rand Company. (See Peters, Arthur E., assignor.)
- Ingersoll-Rand Company. (See Pitts, Claude, assignor.)
- Ingersoll-Rand Company. (See Prellwitz, William, assignor.)
- Ingersoll-Rand Company. (See Slater, Fred M., assignor.)
- Ingersoll-Rand Company. (See Smith, William A., assignor.)
- Ingersoll-Rand Company. (See Smith, William H., assignor.)
- Ingersoll-Rand Company. (See Stage, Harold I., assignor.)
- Ingersoll-Rand Company. (See Tuttle, Grover G., assignor.)
- Ingersoll-Rand Company. (See Wilhelm, Russell H., assignor.)
- Ingersoll-Rand Company, The. (See Bayles, Lewis C., assignor.)
- Ingersoll, Robert F., deceased, by J. B. Ingersoll, special administratrix, Kellogg, Idaho, assignor to T. S. Ingersoll, San Francisco, Calif. Auto-lock. No. 1,380,478; June 7; v. 287; p. 29.
- Ingersoll, T. S. (See Ingersoll, Robert F., assignor.)
- Ingle, Arthur H. (See Trosch, Alfred, assignor.)
- Ingle, Arthur H. (See Ward, Wallace E., assignor.)



*Alphabetical list of patentees—Continued.*

- Ingle, Mark J., Washington, D. C. Carbonated ice-cream and making the same. No. 1,397,168; Nov. 15.
- Ingleton, James W., Astoria, Oreg. Saw-set. No. 1,392,644; Oct. 4.
- Ingoldsby Automatic Car Company, The. (See Ingoldsby, Frank S., assignor.)
- Ingoldsby, Frank S., Pasadena, Calif., assignor to The Ingoldsby Automatic Car Company, Cleveland, Ohio. Dump-car. No. 1,375,700; Apr. 26; v. 285; p. 583.
- Ingram, Alfred and Harry, assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,365,832; Jan. 18; v. 282; p. 429.
- Ingram, Alfred and H., Brooklyn, N. Y. Jar and other receptacle. No. 1,375,004; Apr. 19; v. 285; p. 417.
- Ingram, Harry. (See Ingram, Alfred and H.)
- Ingrams Incorporated. (See Ingram, Alfred and H., assignors.)
- Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,385,172; July 19; v. 288; p. 528.
- Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,386,624; Aug. 9; v. 289; p. 201.
- Ingram, Harry. (See Ingram, Alfred and H.)
- Ingram, Joseph A., East Orange, N. J. Piston-ring. No. 1,374,852; Apr. 12; v. 285; p. 326.
- Ingram, Joseph A., East Orange, N. J. Motor-cooling means. No. 1,384,031; July 5; v. 288; p. 160.
- Ingram, Joseph D., Amarillo, Tex. Wheel-tread. No. 1,367,661; Feb. 8; v. 283; p. 212.
- Ingram, Joseph D., Amarillo, Tex. Wheel-tread. No. 1,372,951; Mar. 29; v. 284; p. 821.
- Ingram, Joseph D., Amarillo, Tex. Tractor. No. 1,375,790; Apr. 26; v. 285; p. 599.
- Ingram, Joseph D., Amarillo, Tex. Engine. No. 1,393,785; Oct. 18.
- Ingstrum, Phineas C., Rochester, N. Y. Jointer-guard. No. 1,394,499; Oct. 18.
- Ingram, Sleeper T., assignor of thirty per cent. to J. E. Newell, St. Louis, Mo. Tractor rotary plow. No. 1,374,739; Apr. 12; v. 285; p. 304.
- Ingram, Walter M., Baltimore, Md. Air-pump. No. 1,389,360; Aug. 30; v. 289; p. 909.
- Ingrams Incorporated. (See Ingram, Alfred and H., assignors.)
- Ink, Rolla N., San Diego, Calif. Segmental casing for tires. No. 1,399,430; Dec. 6.
- Inman, Harry A., and W. H., Newark, N. Y. Receptacle-making machine. No. 1,395,229; Oct. 25.
- Inlaid Company, The. (See Butler, David H., assignor.)
- Inland Machine Works. (See Hartog, Stephen D., assignor.)
- Inman Manufacturing Company. (See Joslin, Frank M., assignor.)
- Inman, Walter A. (See Boyle, J. P., and Inman.)
- Inman, William H. (See Inman, Harry A. and W. H.)
- Insel Company, The. (See Davis, Joseph, assignor.)
- Inshaw, George R., Pollockshields, near Glasgow, Scotland. Valvular arrangement of internal-combustion engines. No. 1,374,153; Apr. 5; v. 285; p. 151.
- Istone, Alfred J., London, England. Freezing-tank. No. 1,367,394; Feb. 1; v. 283; p. 102.
- Interchangeable Wall Case Company, The. (See Gach, A., and Wilcox, assignors.)
- Interlocking Concrete Tile Company. (See Lee, Edward T., assignor.)
- International Art Publishing Company. (See Bennett, Beatrice M., assignor.)
- International Automobile Appliance Corporation. (See Swift, Herbert D., assignor.)
- International Bituconcrete Company. (See Erwin, Reiman G., assignor.)
- International Casement Company. (See Ellison, Edward H., assignor.)
- International Cork Company. (See Alberti, Emilio and J., assignors.)
- International Cork Company. (See Allatt, Thomas, assignor.)
- International Cork Company. (See Binder, John, assignor.)
- International Cork Company. (See Marsa, Melchor, assignor.)
- International Dry Milk Company. (See Dick, Samuel M., assignor.)
- International Earth Boring Machine Corporation. (See Moore, William E., assignor.)
- International Equipment Company. (See Kendrick, Arthur, assignor.)
- International Finance Company. (See McCash, Perry V., assignor.)
- International Fuel Conservation Co. (See Anderson, Robert J., assignor.)
- International Gas Recorder Manufacturing Company. (See Evans, F., and Corcos, assignors.)
- International Glass Casket Company. (See Tyree, Hiram, assignor.)
- International Harvester Company. (See Anderson, Emil F., assignor.)
- International Harvester Company. (See Arnold, Douglass L., assignor.)
- International Harvester Company. (See Beall, William L., assignor.)
- International Harvester Company. (See Benjamin, Bert R., assignor.)
- International Harvester Company. (See Bidwell, Carlyle D., assignor.)
- International Harvester Company. (See Burger, Leopold F., assignor.)
- International Harvester Company. (See Burgess, Edward W., assignor.)
- International Harvester Company. (See Cady, Sherman W., assignor.)
- International Harvester Company. (See Charles, Edward S., assignor.)
- International Motor Company. (See De La Monte, Cascious H., assignor.)
- International Harvester Company. (See Dennis, Samuel K., assignor.)
- International Harvester Company. (See Ford, Ralph L., assignor.)
- International Motor Company. (See Frins, Maximilian C., assignor.)
- International Harvester Company. (See Holland-Letz, Lud., assignor.)
- International Motor Company. (See Horine, Merrill C., assignor.)
- International Harvester Company. (See Howe, Frank D., assignor.)
- International Harvester Company. (See Johnston, Edward A., assignor.)
- International Harvester Company. (See Lindgren, Alexus C., assignor.)
- International Harvester Company. (See Merwin, George M., assignor.)
- International Harvester Company. (See Mott, Carl W., assignor.)
- International Harvester Company. (See Mowry, Edward, assignor.)
- International Harvester Company. (See Pearson, Charles, assignor.)
- International Harvester Company. (See Rand, Charles A. A., assignor.)
- International Harvester Company. (See Rice, George L., assignor.)
- International Harvester Company. (See Robinson, C. W., and Baseman, assignors.)
- International Harvester Company. (See Sperry, Herbert B., assignor.)
- International Harvester Company. (See Webber, William, assignor.)
- International Lettergraph Corporation, *et al.* (See Kidder, Wellington P., assignor.)
- International Mailing Tube and Wrapper Company. (See Greve, Herman L., assignor.)
- International Money Machine Company. (See Hawley, Amos H., assignor.)
- International Money Machine Company. (See Lutz, Belton L., assignor.)
- International Motor Company. (See Herreshoff, Alexander G., assignor.)
- International Motor Company. (See Herreshoff, A. G., and Lucand, assignors.)
- International Motor Company. (See De La Monte, Cascious H., assignor.)
- International Motor Company. (See Frins, Maximilian C., assignor.)
- International Motor Company. (See Horine, Merrill C., assignor.)
- International Motor Company. (See Josephs, Lyman C., Jr., assignor.)
- International Motor Company. (See Leipert, August H., assignor.)
- International Motor Company. (See Lipcott, Fred L., assignor.)
- International Motor Company. (See Leverett, Harry L., assignor.)
- International Motor Company. (See Lucand, Alexander, assignor.)
- International Motor Company. (See Masury, A. F., and Leipert, assignors.)
- International Motor Company. (See Masury, Alfred F., assignor.)
- International Motor Company. (See Matthews, Joseph L., assignor.)
- International Motor Company. (See Midboe, Gabriel, assignor.)
- International Motor Company. (See Mullbach, Herman C., assignor.)
- International Motor Company. (See Pelizzoni, Joseph A., assignor.)
- International Motor Company. (See Leipert, August H., assignor.)
- International Motor Company. (See Masury, Alfred F., assignor.)
- International Moving Picture & Film Company, The. (See Bingham, George W., assignor.)
- International Nitrogen Company. (See Reid, James H., assignor.)
- International Patent Investment Company, The. (See Brown, George F., assignor.)



*Alphabetical list of patentees—Continued.*

- International Patent Licensing Corporation. (See Peters, William A., assignor.)  
 International Pavement Company. (See Whitney, George E., assignor.)  
 International Precipitation Company. (See Church, Frederick B., assignor.)  
 International Precipitation Company. (See Moon, Freeman S., assignor.)  
 International Precipitation Company. (See Petersen, Alfred, assignor.)  
 International Precipitation Company. (See Schmidt, Walter A., assignor.)  
 International Precipitation Company. (See Welch, Harry V., assignor.)  
 International Precipitation Company. (See Wolcott, Edson R., assignor.)  
 International Radio Telegraph Company. (See Kroger, Fred H., assignor.)  
 International Radio Telegraph Company. (See Adair, Samuel E., assignor.)  
 International Sanitation & Development Company. (See Fetzner, W., Freres, and Elliott, assignors.)  
 International Scale Company. (See Osgood, Louis A., assignor.)  
 International Sign Company, The. (See Horr, John V., assignor.)  
 International Silver Co. (See Decherd, Constant K., assignor.)  
 International Steel Wheel Company. (See Shoemaker, Alvin H., assignor.)  
 International Surgical Instruments Company. (See Soresi, Angelo L., assignor.)  
 International Tag Co. (See Seaton, Strowbridge B., assignor.)  
 International Telephone Company. (See Hastings, Ruben C. M., assignor.)  
 International Time Recording Company, The. (See Bryce, James W., assignor.)  
 International Time Recording Company of New York, The. (See Bryce, James W., assignor.)  
 International Time Recording Company of New York, The. (See Bells, Frank B., assignor.)  
 Intertype Corporation. (See Homans, Thomas S., assignor.)  
 Intertype Corporation. (See Pierson, Edwin W., assignor.)  
 Interwoven Mills, The. (See Smith, William E., assignor.)  
 "Invenit," G. m. b. H. (See Fritz, Robert C., assignor.)  
 Invisible Color Print Corporation. (See Imhof, Joseph A., assignor.)  
 Invincible Metal Office Furniture Company. (See Wege, Peter M., assignor.)  
 Inwood, Mary C., administratrix. (See Inwood, Richard G., Reissue.)  
 Inwood, Mary C., administratrix. (See Inwood, R. G., and Bombardie.)  
 Inwood, Richard G., deceased, by M. C. Inwood, administratrix, South Bend, Ind., assignor to Wirebounds Patents Company, Kittery, Me. Box-making machine. No. 1,371,487; Mar. 15; v. 284; p. 440.  
 Inwood, Richard G., deceased, by M. C. Inwood, administratrix, South Bend, Ind., assignor of one-half to D. P. Murphy, New York, N. Y. Box and making the same. (Reissue.) No. 15,069; Mar. 22; v. 284; p. 722.  
 Inwood, Richard G., deceased (M. C. Inwood, administratrix, South Bend, Ind.), and C. H. Bombardie, Chicago, Ill., assignors to Wirebounds Patents Company, Kittery, Me. Box. No. 1,383,952; July 5; v. 288; p. 143.  
 Inwood, Mary C., administratrix. (See Inwood, Richard G.)  
 Iowa Gate Company. (See Stevenson, Charles M., assignor.)  
 Iowa Lock and Manufacturing Company. (See Appleton, Jamie F., assignor.)  
 Ipswich Mills. (See Cartledge, Francis J., assignor.)  
 Ireland, Charles L., Fort McPherson, Ga. Electrotherapeutic apparatus. No. 1,373,818; Apr. 5; v. 285; p. 85.  
 Ireland, Edwin G., and J. D. Clark, Clayburn, British Columbia, Canada. Hacksaw. No. 1,394,174; Oct. 18.  
 Irey, John H., West Liberty, Iowa. Wall structure for corncribs and the like. No. 1,382,362; June 21; v. 287; p. 497.  
 Irion, Charles W., Red Cliff, Colo. Gun-sight. No. 1,387,987; Aug. 16; v. 289; p. 525.  
 Irish, David J., Barborton, Ohio, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Oil-burning boiler-furnace. No. 1,364,502; Jan. 4; v. 282; p. 88.  
 Irish, William E., Cleveland, Ohio. Thermally-operated device. No. 1,393,376; Oct. 11.  
 Ironton Engine Company. (See Williams, Albert R., assignor.)  
 Irvin, William C., San Francisco, Calif. Metallic shipping-barrel. No. 1,398,298; Nov. 29.  
 Irvine, James C. (See Haworth, W. N., and Irvine.)  
 Irving, John L., assignor to Moline Plow Company, Moline, Ill. Tillage implement. No. 1,391,544; Sept. 20; v. 290; p. 555.  
 Irving, Thomas W., Aspatria, England. Antitheft-lock for automobiles. No. 1,401,335; Dec. 27.  
 Irving-Pitt Manufacturing Company. (See Fargo, C. R., and Unger, assignors.)  
 Irwin, George H. (See Jensen, C. C., and Irwin.)  
 Irwin, Herbert G., Floydada, Tex. Insecticide dispensing receptacle. No. 1,370,110; Mar. 1; v. 284; p. 67.  
 Irwin, Herbert G., Floydada, Tex. Insecticide-holder. No. 1,377,077; May 3; v. 286; p. 133.  
 Irwin, John R., Cobourg, Ontario, Canada. Means for treatment of pyorrhea. No. 1,389,662; Sept. 6; v. 290; p. 21.  
 Irwin, William, Irwin, Pa. Spring. No. 1,385,919; July 26; v. 288; p. 754.  
 Irwin, William J., Wilkensburg, Pa. Nozzle control for turbines. (Reissue.) No. 15,084; Apr. 12; v. 285; p. 335.  
 Irwin, William J., Tacoma, Wash. Typographical machine. No. 1,400,070; Dec. 13.  
 Isaacs, Albert, New York, N. Y., assignor to Beck Duplicator Company. Spindle for duplicating-machines and the like. No. 1,377,584; May 10; v. 286; p. 286.  
 Isaacs, Joel L., Milwaukee, Wis. Bed-spring. No. 1,388,261; Aug. 23; v. 289; p. 636.  
 Isaacson, Louis C., Denver, Colo. Bottle-stopper. No. 1,364,375; Jan. 4; v. 282; p. 63.  
 Isachsen, Norman, Albion, Idaho. Engine-timer. No. 1,397,005; Nov. 15.  
 Isbister, John, and J. Chapman, Dunedin, New Zealand. Hatpin. No. 1,368,155; Feb. 8; v. 283; p. 306.  
 Ische, Albert. (See Ische, Arnold and A.)  
 Ische, Arnold, Norwood, and A. Ische, Hamburg, Minn. Nest-box for hens. No. 1,379,628; May 31; v. 286; p. 876.  
 Iselle, John, Oakland, Calif. Mechanical device. No. 1,396,578; Nov. 8.  
 Isenhour, Luther J., Indianapolis, Ind., assignor to J. Kim, Pittsburgh, and S. R. Sorber, Greensburg, Pa. Sanitary cover. No. 1,397,169; Nov. 15.  
 Isensee, Otto K., Chino, Calif. Erasing and polishing device. No. 1,379,922; May 31; v. 286; p. 930.  
 Isgrig, Walter V., assignor to Badger Manufacturing Corporation, Milwaukee, Wis. Clamp. No. 1,394,904; Oct. 25.  
 Isidor, Joseph S., Newark, N. J., assignor to The R. Neumann Hardware Co. Bag-frame fastener. No. 1,370,748; Mar. 8; v. 284; p. 234.  
 Isidor, Joseph S., Newark, N. J., assignor to The R. Neumann Hardware Co. Catch. No. 1,371,422; Mar. 15; v. 284; p. 427.  
 Isko Company. (See Joy, Henry B., assignor.)  
 Isko Company, The. (See Heideman, Fredrick J., assignor.)  
 Isko Company, The. (See Wolf, Fred W., assignor.)  
 Isko Company, The. (See McCuen, Charles L., assignor.)  
 Isler, John J., Kipling, Mich. Air-spring. No. 1,376,206; Apr. 26; v. 285; p. 679.  
 Isles, Andrew. (See Miller, J. C., and Isles.)  
 Isono, Tatsuchiro, Tokyo, Japan, assignor to General Electric Company. Induction-motor. No. 1,396,579; Nov. 8.  
 Isozaki, Takasaburo, Okayama, Japan. Fabric for floor-covering and the like. No. 1,364,376; Jan. 4; v. 282; p. 63.  
 Israel, Aaron J., Johannesburg, Transvaal, South Africa. Lining metal pipes and the like. No. 1,368,632; Feb. 15; v. 283; p. 447.  
 Israel, Charles F., Omaha, Nebr. Child's wheel-coaster. No. 1,364,280; Jan. 4; v. 282; p. 46.  
 Israel, Isaac, assignor of one-half to Success Cone Co., Inc., New York, N. Y. Pastry-shaping device. No. 1,379,987; May 31; v. 286; p. 943.  
 Israel, Sydney. (See Israel, William, assignor.)  
 Israel, Sidney M., Richmond Hill, N. Y. Electric-light chandelier. No. 1,389,831; Sept. 6; v. 290; p. 55.  
 Israel, William, assignor of one-half to S. Israel, Kingston, Pa., Lamp-supporting attachment for miners' caps. No. 1,383,721; July 5; v. 288; p. 97.  
 Iseman, Richard B., Clarion, Pa. Automobile-turntable. No. 1,380,385; June 7; v. 287; p. 12.  
 Isern, Ferdinand A. (See Penning, E. C., and Isern.)  
 Isnow, Demetry, assignor to M. Leshing, Los Angeles, Calif. Film-winding machine. No. 1,382,288; June 21; v. 287; p. 483.  
 Ito Katsuchi, Nishi Ku, Osaka, Japan. Preparing licorice-root extract. No. 1,389,663; Sept. 6; v. 290; p. 21.  
 Itoi, Masanobu. (See Ahaki, Kanzaburo.)  
 Ittner, Martin H., Jersey City, N. J. Manufacture of soap. No. 1,367,973; Feb. 8; v. 283; p. 271.  
 Iukaszewski, John, Chicago, Ill. Gas or liquid fuel burner. No. 1,395,196; Oct. 25.  
 Ivers-Lee Company. (See Gray, Edward E., assignor.)  
 Iverson, Anton. (See Olson, T. W., and Iverson.)  
 Iverson, Aaron E., Chatsworth, Calif. Irrigation system. No. 1,373,660; Apr. 5; v. 285; p. 54.  
 Iverson, Ludvig A., Lankin, N. D. Grain-treating machine. No. 1,382,981; June 28; v. 287; p. 607.  
 Iverson Piano Player Company. (See Peterson, Claus E., assignor.)  
 Iverson, Richard M., Rock Island, Ill. Plow. No. 1,390,615; Sept. 13; v. 290; p. 304.  
 Iverson, Sören I. (See Abrechtsen, H., and Iverson.)  
 Ives, Edward L., Chicago, Ill. Means for protecting blast-furnace parts. No. 1,376,440; May 3; v. 286; p. 12.  
 Ives, Edward L., assignor to Freyn and Company, Chicago, Ill. Blast-furnace-charging bell. No. 1,376,439; May 3; v. 286; p. 12.



## Alphabetical list of patentees—Continued.

- Ives, Frederic E., Philadelphia, Pa. Color photograph or film and producing same. No. 1,376,940; May 3; v. 286; p. 107.
- Ives, Frederic E., Philadelphia, Pa. Photographic apparatus. No. 1,383,543; July 5; v. 288; p. 59.
- Ives, Harry C., assignor to The Ives Manufacturing Corporation, Bridgeport, Conn. Toy-railway-train stop. No. 1,379,988; May 31; v. 286; p. 943.
- Ives Manufacturing Corporation, The. (See Ives, Harry C., assignor.)
- Ivey, William T., Lyons, Ga. Automobile-tire tool. No. 1,388,717; Aug. 23; v. 289; p. 726.
- Ivor, Barry, Chicago, Ill. Intake-manifold. No. 1,395,677; Nov. 1.
- Ivory, James W., Philadelphia, Pa. Finger-nail cleaner. No. 1,367,974; Feb. 8; v. 283; p. 271.
- Ivory, James W., Philadelphia, Pa. Protector and guide-sheath for nail-files. No. 1,367,975; Feb. 8; v. 283; p. 271.
- Ivory, James W., Philadelphia, Pa. Nut lock or fastener. No. 1,376,624; May 3; v. 286; p. 46.
- Ivory, James W., Philadelphia, Pa. Tobacco-pipe. No. 1,386,933; Aug. 9; v. 289; p. 265.
- Ivory, James W., Philadelphia, Pa. Nut lock or fastener. No. 1,398,325; Nov. 29.
- Ivers, John W. (See Mize, Allen J. and J. R., and Ivers.)
- Iversen, Lorenz, Pittsburgh, Pa. Gear-drive for rolling-mills. No. 1,401,260; Dec. 27.
- Izawa, Riichiro, Kyoto, Japan. Toothbrush. No. 1,369,664; Feb. 22; v. 283; p. 687.
- Izumi, Tokusaburo, Tokyo, Japan. Drying apparatus. No. 1,372,352; Mar. 22; v. 284; p. 662.
- J & B Manufacturing Company. (See Jacobson, Edward B., assignor.)
- J. J. Disc-Wheel Corporation, The. (See Johnston, John O., assignor.)
- J. & C. G. Bolinders, Mekaniska Verkstadts, Aktiebolag. (See Rudqvist, Carl A., assignor.)
- Jabez Johnson Hodgkinson and Pearson Limited. (See Taylor, Percival, assignor.)
- Jablon, Oscar E., Plainfield, N. J. Locking device. No. 1,400,487; Dec. 13.
- Jaburg Brothers. (See Schmitz, Fritz, assignor.)
- Jacluk, George, Chicago, Ill. Combined mop and scrubber. No. 1,397,584; Nov. 22.
- Jack, Alexander G. M. (See Hadfield, R. A., Jack, and Clerke.)
- Jack, Alexander G. M. (See Hadfield, R. A., Jack, and Milne.)
- Jack, Alexander G. M. (See Hadfield, Robert A., assignor.)
- Jack, Charles P. M., Glasgow, Scotland. Navigable vessel. No. 1,393,537; Oct. 11.
- Jack, Stephen, Elight Point, Mont. Portable drag-saw. No. 1,367,480; Feb. 1; v. 283; p. 119.
- Jackman, Charles W., assignor of one-half to M. M. Jackman, Detroit, Mich. Rotary pump. No. 1,395,114; Oct. 25.
- Jackman, Chester C., and R. S. Squire, assignors to Victor Saw Works, Springfield, Mass. Hardening-machine. No. 1,367,049; Feb. 1; v. 283; p. 33.
- Jackman, Miles M. (See Jackman, Charles W., assignor.)
- Jackson, Albert M., Los Angeles, Calif. Direct-reading burette. No. 1,386,571; Aug. 2; v. 289; p. 118.
- Jackson, Alfred A., Denver, Colo. Spark-plug intensifier. No. 1,375,253; Apr. 19; v. 285; p. 465.
- Jackson, Arthur A., Long Beach, Calif. Garment. No. 1,389,664; Sept. 6; v. 290; p. 21.
- Jackson, Berry B., Mudlick, Ky. Insulator-support. No. 1,381,838; June 14; v. 287; p. 339.
- Jackson, Birney W., Philadelphia, Pa., assignor to The Jackson Plow Company, Wilmington, Del. Plow. No. 1,369,745; Feb. 22; v. 283; p. 703.
- Jackson, Calvin, Jacksonwald, Pa. Propeller mechanism. No. 1,370,587; Mar. 8; v. 284; p. 203.
- Jackson, Charles, *et al.* (See Renfro, Richard R., assignor.)
- Jackson, Charles C. (See Shand, W. L. and A. M., assignors.)
- Jackson, Charles E., Minneapolis, Minn. Printing-frame. No. 1,399,122; Dec. 6.
- Jackson, Charles H., *et al.* (See Willis, Frank H., assignor.)
- Jackson, Charles J., Galva, Ill. Cushion-wheel. No. 1,381,996; June 21; v. 287; p. 429.
- Jackson, Corwill, Kalamazoo, Mich. Pneumatic drill. No. 1,376,545; May 3; v. 286; p. 31.
- Jackson, Corwill, Kalamazoo, Mich. Tamper and like impact-tool. No. 1,399,387; Dec. 6.
- Jackson Cushion Spring Company, The. (See Van Hove, Desire H., assignor.)
- Jackson, Dean S., Albany, N. Y. Funnel. No. 1,379,569; May 24; v. 286; p. 790.
- Jackson, Edmond, Newport News, Va. Floor-mat and making same. No. 1,392,333; Oct. 4.
- Jackson, Edmond A., Asheville, N. C. Ticket-vending machine. No. 1,381,839; June 14; v. 287; p. 339.
- Jackson, Edward, New York, N. Y. Printer's case. No. 1,394,307; Oct. 18.
- Jackson, Everett B., Colorado Springs, Colo. Motor-vehicle. No. 1,390,441; Sept. 13; v. 290; p. 268.
- Jackson, Frank, Denver, Colo. Pressure-operated grease-injecting device or grease-gun for automobile service. No. 1,394,017; Oct. 18.
- Jackson, Frank I. (See Harris, W. S., Cronan, and Jackson.)
- Jackson, Frank P., Youngstown, Ohio. Treating natural stone. No. 1,396,118; Nov. 8.
- Jackson, George, Chicago, Ill., assignor to The Singer Manufacturing Company. Position-bracket for sewing-machines. No. 1,388,114; Aug. 16; v. 289; p. 550.
- Jackson, George B., Westminster, Md. Torpedo. No. 1,373,246; Mar. 29; v. 284; p. 879.
- Jackson, George E., Brooklyn, N. Y., assignor of forty-nine one-hundredths to W. B. Eveans, Montclair, N. J. Cigarette-former. No. 1,379,344; May 24; v. 286; p. 748.
- Jackson, George F., Byllesby, Va. Gas and air mixer. No. 1,382,363; June 21; v. 287; p. 497.
- Jackson, George R., *et al.* (See Mayne, John, assignor.)
- Jackson, George W., & Fitzpatrick Company. (See Jackson, George W., assignor.)
- Jackson, George W., Evanston, assignor, by mesne assignments, to George W. Jackson & Fitzpatrick Company, Chicago, Ill. Supporting-form for concrete and masonry structure. No. 1,398,968; Dec. 6.
- Jackson, Graham H., Newark, N. J., assignor to Universal Tobacco Machine Co., New York, N. Y. Tobacco-machine. No. 1,366,386; Jan. 25; v. 282; p. 580.
- Jackson, Graham H., Newark, N. J., assignor to Universal Tobacco Machine Company. Tobacco stem rolling and leaf-booking machine. No. 1,387,545; Aug. 16; v. 289; p. 438.
- Jackson, Henry W. (See Runge, R. F., and Jackson.)
- Jackson, Ingwald J., Duluth, Minn. Holder. No. 1,401,474; Dec. 27.
- Jackson, Isaac S., assignor to The Rossendale-Reddaway Belting & Hose Co., Newark, N. J. Conveyor-belt. No. 1,394,018; Oct. 18.
- Jackson, J. G., Limited. (See Jackson, James G., assignor.)
- Jackson, James G., assignor to J. G. Jackson, Limited, Glasgow, Scotland. Extrusion apparatus. No. 1,368,934; Feb. 15; v. 283; p. 506.
- Jackson, John, St. Louis, Mo. Key-ring holder. No. 1,368,156; Feb. 8; v. 283; p. 306.
- Jackson, John W., Henryetta, Okla. Shade and curtain hanger. No. 1,370,817; Mar. 8; v. 284; p. 248.
- Jackson, Joseph R., Jr., Boston, Mass. Elevator system. No. 1,370,111; Mar. 1; v. 284; p. 67.
- Jackson, Lawrence S. (See Girvan, Charles S., assignor.)
- Jackson, Lewis, Simpson, Kans. Lister-cultivator. No. 1,382,364; June 21; v. 287; p. 498.
- Jackson, Mark. (See West, F. J., Jackson, and Leader.)
- Jackson, Mark P., Abbeville, Ga., assignor to Boorum and Pease Company, New York, N. Y. Loose-leaf binder. No. 1,396,631; Nov. 8.
- Jackson, Maude, *et al.* (See Traphagan, Frank M., assignor.)
- Jackson, Maxey, Emmett, Idaho. Dirigible headlight for automobiles. No. 1,381,124; June 14; v. 287; p. 206.
- Jackson, Merritt T., Faber, Va. Automatic switch-operating means. No. 1,394,416; Oct. 18.
- Jackson, Monroe, Lincoln, Ark. Conduit for timer-wires. No. 1,396,758; Nov. 15.
- Jackson, Norman, Washington, D. C. Pneumatic tire. No. 1,384,134; July 12; v. 288; p. 231.
- Jackson, Perry, Los Angeles, Calif. Luggage-carrier. No. 1,374,013; Apr. 5; v. 285; p. 124.
- Jackson Plow Company, The. (See Jackson, Birney W., assignor.)
- Jackson, Ralph G., Chester, Pa., assignor to Congoleum Company, Incorporated, New York, N. Y. Printing-block for block-printing machines. No. 1,386,504; Aug. 2; v. 289; p. 105.
- Jackson, Ray P., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Means for protecting transmission-lines. No. 1,368,339; Feb. 15; v. 283; p. 390.
- Jackson, Richard, Jr., San Francisco, Calif., assignor of one-third to A. R. Reese and one-third to J. W. Douglas, Denver, Colo. Basket-ball goal-indicator. No. 1,381,466; June 14; v. 287; p. 269.
- Jackson, Robert E., Princeton, W. Va. Hand-brake. No. 1,396,119; Nov. 8.
- Jackson, Robert E., and E. M. Jenkins, Princeton, W. Va. Flue-blower. No. 1,383,210; June 28; v. 287; p. 713.
- Jackson, Robert H., Phoenix, Ariz. Connecting-rod. No. 1,396,433; Nov. 8.
- Jackson, Simon S., assignor to The Stafford Company, Readville, Boston, Mass. Weft-replenishing loom. No. 1,394,175; Oct. 18.
- Jackson, Thaddeus A., Brooklyn, N. Y. Endless saw. No. 1,392,503; Oct. 4.
- Jackson, Thomas, London, England. Hair and skin treatment apparatus. No. 1,365,036; Jan. 11; v. 282; p. 236.
- Jackson, Thomas E., Rogersville, Ala. Gun-sight. No. 1,397,373; Nov. 15.
- Jackson, Vilas H., Cleveland, Ohio. Excavating-bucket. No. 1,401,782; Dec. 27.
- Jackson, William G., Pompton Lakes, N. J. Ball-game apparatus. No. 1,394,308; Oct. 18.
- Jackson, William H. (See Bandy, William B., assignor.)



*Alphabetical list of patentees—Continued.*

- Jackson, William H., Jackson, Mich. Gasolene-valve lock. No. 1,366,804; Jan. 25; v. 282; p. 664.
- Jackson, William J., Brooklyn, N. Y. Machine for grinding and reboring engine-cylinders. No. 1,394,836; Oct. 25.
- Jackson, William O. (See Ray, Albert D., assignor.)
- Jacob, Edward, Gary, Ind. Extensible stepladder. No. 1,368,438; Feb. 15; v. 283; p. 409.
- Jacob, Emil H., Chicago, Ill. Anti-window-rattler. No. 1,374,206; Apr. 12; v. 285; p. 201.
- Jacob, Francis M., Columbus, Miss. Axle for running-gears of wagons. No. 1,385,324; July 19; v. 288; p. 557.
- Jacob, Julius, Columbia, S. C. Cradle. No. 1,400,748; Dec. 20.
- Jacob, Kenneth D. (See Davis, A. L., and Jacob.)
- Jacob, Thomas H., Wausau, Wis. Wheel-puller. No. 1,367,744; Feb. 8; v. 283; p. 228.
- Jacob, Thomas H., Wausau, Wis. Shop-dolly. No. 1,370,112; Mar. 1; v. 284; p. 67.
- Jacobi, August C., Sunnyvale, Calif. Friction-clutch. No. 1,383,813; July 5; v. 288; p. 115.
- Jacobi, Edward N. (See Briggs, S. F., and Jacobi.)
- Jacobs, Benjamin F., Boston, Mass. Expanding screw. No. 1,372,291; Mar. 22; v. 284; p. 651.
- Jacobs, Carl, *et al.* (See Roll, John M., assignor.)
- Jacobs, Charles B., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of compounds by gas reactions and apparatus therefor. No. 1,376,207; Apr. 26; v. 285; p. 680.
- Jacobs, Charles F., Chicago, Ill. Circuit-continuing heating-receptacle. No. 1,373,615; Apr. 5; v. 285; p. 46.
- Jacobs, Clarence E., Detroit, Mich. Lubricator. No. 1,369,110; Feb. 22; v. 283; p. 579.
- Jacobs, E. E., *et al.* (See Roll, John M., assignor.)
- Jacobs, Emanuel, Detroit, Mich. Razor-sharpening device. No. 1,386,001; Aug. 2; v. 289; p. 7.
- Jacobs, Ernest H., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Pole-top switch. No. 1,367,188; Feb. 1; v. 283; p. 61.
- Jacobs, Ernest H., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Switch. No. 1,375,155; Apr. 19; v. 285; p. 447.
- Jacobs, Ernest H., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Low-voltage release-switch. No. 1,380,386; June 7; v. 287; p. 12.
- Jacobs, Ernest H., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Disconnecting-switch. No. 1,391,659; Sept. 20; v. 290; p. 456.
- Jacobs, Ernest H., Chicago, Ill., assignor to General Electric Company. Electric switch. No. 1,368,398; Feb. 15; v. 283; p. 401.
- Jacobs, Ernest H., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,390,036; Sept. 6; v. 290; p. 96.
- Jacobs, George A. (See Johnson, C. J., and Jacobs.)
- Jacobs, Hannah. (See Jacobs, Harry and H.)
- Jacobs, Hannah and H., New York, N. Y. Hair-waving comb. No. 1,369,974; Mar. 1; v. 284; p. 42.
- Jacobs, Harry, Lordsburg, N. Mex. Metallic railway-tie. No. 1,376,279; Apr. 26; v. 285; p. 694.
- Jacobs, Harry and H., New York, N. Y. Hair waving and drying attachment. No. 1,369,973; Mar. 1; v. 284; p. 42.
- Jacobs, Harry, and H. Jacobs, New York, N. Y. Hair waving and drying apparatus. No. 1,380,803; June 7; v. 287; p. 92.
- Jacobs, Henry J., Buffalo, N. Y. Upholstering roll or beading for furniture. No. 1,370,690; Mar. 8; v. 284; p. 223.
- Jacobs, Henry W. (See Leighty, William J., assignor.)
- Jacobs, Henry W., Topeka, Kans., and E. D. Levy, Springfield, Mo. Tank-car. No. 1,369,111; Feb. 22; v. 283; p. 580.
- Jacobs, Isidor M., Kansas City, and W. Cramer, assignors to Truck, Tractor, and Manufacturing Company, St. Louis, Mo. Belt-fastening device. No. 1,385,685; July 26; v. 288; p. 708.
- Jacobs, Isidor M., Kansas City, assignor, by mesne assignments, to Truck, Tractor and Manufacturing Company, St. Louis, Mo. Means for suspension of engines in motor-vehicles. No. 1,398,024; Nov. 22.
- Jacobs, Isidor M., Kansas City, and W. Cramer, assignors to Truck, Tractor, and Manufacturing Company, St. Louis, Mo. Suspension device. No. 1,391,735; Sept. 27; v. 290; p. 666.
- Jacobs, Isidor M., Kansas City, and W. Cramer, assignors to Truck, Tractor, and Manufacturing Company, St. Louis, Mo. Belt-lacing tool. No. 1,391,736; Sept. 27; v. 290; p. 667.
- Jacobs, John. (See Kondolf, Mathias R., assignor.)
- Jacobs, Joseph, Brooklyn, N. Y. Oiling device for fiber silk and the like. No. 1,396,120; Nov. 8.
- Jacobs, Joseph, Brooklyn, N. Y. Oiling device for fiber silk and the like. No. 1,397,522; Nov. 22.
- Jacobs, Joseph H., Denver, Colo., assignor to The Jacobs Specialties Manufacturing Company. Machine-vice. No. 1,372,027; Mar. 22; v. 284; p. 600.
- Jacobs, Julian S., assignor to John T. Slack Corporation, Springfield, Vt. Rag-stock feeder. No. 1,381,878; June 14; v. 287; p. 347.
- Jacobs Manufacturing Company, The. (See England, Gustaf A., assignor.)
- Jacobs, Patyon, Montreal, Quebec, Canada. Fire-extinguisher. No. 1,389,049; Aug. 30; v. 289; p. 847.
- Jacobs, St. Charles, Brooklyn, N. Y. Amusement device. No. 1,366,004; Jan. 18; v. 282; p. 462.
- Jacobs, St. Charles, Brooklyn, N. Y. Amusement device. No. 1,390,789; Sept. 13; v. 290; p. 339.
- Jacobs, Samuel A., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical element. No. 1,382,088; June 21; v. 287; p. 446.
- Jacobs Specialties Manufacturing Company. (See Jacobs, Joseph H., assignor.)
- Jacobs, Winfred, Dodge City, assignor to American Tractor, Foundry and Manufacturing Company, Wichita, Kans. Forming stacks. No. 1,366,387; Jan. 25; v. 282; p. 580.
- Jacobsen, Charles H., and C. Breer, Detroit, Mich. Power-transmitting joint. No. 1,378,118; May 17; v. 286; p. 442.
- Jacobsen, Emil, New York, N. Y., assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,376,814; May 3; v. 286; p. 82.
- Jacobsen, Era C., Oak Park, assignor, by mesne assignments, to American Steam Truck Company, Chicago, Ill. Fuel-burning apparatus. No. 1,391,385; Sept. 20; v. 290; p. 522.
- Jacobsen, Olaf B., Birmingham, England. Extrusion-press. No. 1,400,071; Dec. 13.
- Jacobsen, Richard S., Chicago, Ill. Electric water-heater. No. 1,396,121; Nov. 8.
- Jacobsen, Richard S., assignor to Jacobsen & Schraeder Incorporated, Chicago, Ill. Means for operating reciprocating conveyers or screens. No. 1,386,505; Aug. 2; v. 289; p. 105.
- Jacobsen & Schraeder. (See Jacobsen, Richard S., assignor.)
- Jacobsen, Thomas R., Ellensburg, Wash. Display-plate. No. 1,369,436; Feb. 22; v. 283; p. 642.
- Jacobsy, Maxim, New York, N. Y. Locking device for operating handles. No. 1,388,232; Nov. 29.
- Jacobson, Arge L., assignor to L. A. Kearney, New York, N. Y. Tire-vulcanizing apparatus. No. 1,380,966; June 7; v. 287; p. 123.
- Jacobson, Axel E., Minneapolis, Minn. Grinding-mill. No. 1,374,207; Apr. 12; v. 285; p. 201.
- Jacobson, David L., Jersey City, N. J., assignor to The Koppers Company, Pittsburgh, Pa. Purifying gases. No. 1,390,037; Sept. 6; v. 290; p. 97.
- Jacobson, Edward B., assignor to J and B Manufacturing Company, Pittsfield, Mass. Ignition-timer. No. 1,371,972; Mar. 15; v. 284; p. 532.
- Jacobson, Edward B., assignor to J and B Manufacturing Company, Pittsfield, Mass. Ignition-timer. No. 1,379,629; May 31; v. 286; p. 876.
- Jacobson, Edward B., assignor to J and B Manufacturing Company, Pittsfield, Mass. Ignition-timer. No. 1,379,821; May 31; v. 286; p. 911.
- Jacobson, Edward B., assignor to J and B Manufacturing Company, Pittsfield, Mass. Ignition-timer. No. 1,383,263; June 28; v. 287; p. 723.
- Jacobson, Elmer T., Stanley, N. D. Hoisting and unloading sling for wagons and the like. No. 1,367,976; Feb. 8; v. 283; p. 272.
- Jacobson, Gustave A. (See Josephson, Harry, assignor.)
- Jacobson, Jacob R., New York, N. Y. Hatbox-making machine. No. 1,367,479; Feb. 1; v. 283; p. 119.
- Jacobson, Jacob W., and J. E. Turja, Hancock, Mich. Cleaner for burners of carbide-lamps and the like. No. 1,397,170; Nov. 15.
- Jacobson, Leo, Chicago, Ill., assignor to G. B. Cooper, Cleveland, Ohio. Apparatus for vulcanizing vehicle-tires. No. 1,377,133; May 3; v. 286; p. 143.
- Jacobson, Martin B., Blair, Nebr. Spark-plug. No. 1,371,488; Mar. 15; v. 284; p. 440.
- Jacobson, Oskar J. F., New York, N. Y. Magneto-coupling. No. 1,391,777; Sept. 27; v. 290; p. 674.
- Jacobson, Rasmus A., Minneapolis, Minn. Power-deriving attachment for automotive vehicles. No. 1,371,375; Mar. 15; v. 284; p. 417.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Underfeed-stoker boiler. No. 1,365,321; Jan. 11; v. 282; p. 290.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-boiler economizer system. No. 1,393,445; Oct. 11.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Fluid-pressure-operating device. No. 1,393,446; Oct. 11.
- Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-superheater. No. 1,399,773; Dec. 13.
- Jacoby, Charles N., assignor to Richardson Corporation, Rochester, N. Y. Apparatus for carbonating beverages. No. 1,370,213; Mar. 1; v. 284; p. 87.
- Jacoby, Frank C., Newport, Ark. Rotary conveyer. No. 1,401,155; Dec. 27.
- Jacoby, Henry C. E., London, England. Dynamo-electric machine. No. 1,386,934; Aug. 9; v. 289; p. 265.
- Jacoby, Jonas C., South Bethlehem, Pa. Steel clamp. No. 1,384,664; July 12; v. 288; p. 342.
- Jacoby, Leo D., Winthrop, Mass., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa. Tongue-depressor. No. 1,396,933; Nov. 15.



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- Jacoby, Raymond W., Garnerville, N. Y., assignor to Rockland Finishing Co., Inc. Cotton product and making the same. No. 1,393,378; Nov. 29.
- Jacoby, Sellmar M., New York, N. Y. Dust-collector. No. 1,371,682; Mar. 15; v. 284; p. 478.
- Jacocks, Thomas B. (See Gordon, W. P., and Jacocks.)
- Jacovett, Benedict D., Lorain, Ohio. Sewer-refilling tray. No. 1,395,828; Nov. 1.
- Jacquet, Robert, Catonsville, Md. Making hydrogen peroxid. No. 1,364,558; Jan. 4; v. 282; p. 99.
- Jacques, Alfred J., Montreal, Quebec, Canada. Drill-press. No. 1,380,912; June 7; v. 287; p. 113.
- Jacques, Raynald P., Woonsocket, R. I. Connector for lubricating apparatus. No. 1,383,306; July 5; v. 288; p. 10.
- Jacques, William L., Central Falls, R. I. Handsaw. No. 1,381,997; June 21; v. 287; p. 429.
- Jacquet, Etienne. (See Senton, C. A., and Jacquet.)
- Jaeger, Gebhard, Columbus, Ohio. Concrete-mixer. No. 1,390,442; Sept. 13; v. 290; p. 268.
- Jaeger, Joseph, San Bernardino, Calif. Money-collection box. No. 1,365,918; Jan. 18; v. 282; p. 446.
- Jaeger, Julius T., Iroquois Falls, Ontario, Canada. Centrifugal pulp-thickener. No. 1,374,377; Apr. 12; v. 285; p. 234.
- Jaekel, Lionel G. A. F., Luton, England. Motor-sleigh. No. 1,399,624; Dec. 6.
- Jaenichen, Louis, Detroit, Mich. Tire-tool. No. 1,367,604; Feb. 8; v. 283; p. 201.
- Jaffe, Harry, assignor to Jaffe Radiator Company, Chicago, Ill. Radiator for motor-vehicles. No. 1,390,618; Sept. 13; v. 290; p. 304.
- Jaffe Radiator Company. (See Jaffe Harry, assignor.)
- Jagdmann, Karl E. W., Stockholm, Sweden. Building-blocks. (Reissue) No. 15,237; Nov. 29.
- Jagenberg, Emil, assignor, by mesne assignments, to The Chemical Foundation, Inc., of Dusseldorf, Germany. Apparatus for wetting the paper cut to strips for spinning purposes. No. 1,367,050; Feb. 1; v. 283; p. 33.
- Jager, Frank, Chicago, Ill. Car-ladder. No. 1,376,696; May 3; v. 286; p. 59.
- Jager, Frank, Chicago, Ill. Car-door. No. 1,376,697; May 3; v. 286; p. 59.
- Jagerspacher, Carl, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs dyeing on mordants. No. 1,375,701; Apr. 26; v. 285; p. 584.
- Jagerspacher, Carl, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs dyeing on mordants. No. 1,382,196; June 21; v. 287; p. 465.
- Jagoe, John W., South St. Paul, Minn. Connecting-rod bearing. No. 1,367,977; Feb. 8; v. 283; p. 272.
- Jabelka, Otto U., Baltimore, Md. Tobacco-bag mouth. No. 1,370,448; Mar. 1; v. 284; p. 131.
- Jahn, August, Omak, Wash. Grasshopper-catcher. No. 1,378,235; May 17; v. 286; p. 463.
- Jahn, B., Manufacturing Company, The. (See Jahn, B., and Kahl, assignors.)
- Jahn, Berthold, and E. E. Kahl, assignors to The B. Jahn Manufacturing Company, New Britain, Conn. Staple-binder. No. 1,387,268; Aug. 9; v. 289; p. 329.
- Jahn, Berthold, and E. E. Kahl, assignors to The B. Jahn Manufacturing Company, New Britain, Conn. Staple-binder. No. 1,387,269; Aug. 9; v. 289; p. 329.
- Jahnke, Charles B., Beloit, Wis., assignor to Fairbanks, Morse & Company, Chicago, Ill. Oil-burning torch. No. 1,377,687; May 10; v. 286; p. 305.
- Jahnke, Emil, Flint, Mich. Counter refrigeration. No. 1,371,169; Mar. 8; v. 284; p. 313.
- Jahnke, Otto A., International Falls, Minn. Steering device for towing automobiles. No. 1,372,818; Mar. 29; v. 284; p. 793.
- Jahnke, Otto H., and F. L. Orr, Denver, Colo. Water-hoist. No. 1,373,736; Apr. 5; v. 285; p. 68.
- Jahns, William H., Los Angeles, Calif. Piston-ring. No. 1,386,973; Aug. 9; v. 289; p. 252.
- Jakobsson, Karl A., Stockholm, Sweden, assignor to W. Farre, Christiania, Norway. Accordion. No. 1,375,156; Apr. 19; v. 285; p. 447.
- Jakubowski, Lucian, Dexter, N. Y. Bird-trap. No. 1,374,014; Apr. 5; v. 285; p. 124.
- James, Amos H., St. Louis, Mo. Trousers-supporting device. No. 1,380,210; May 31; v. 286; p. 985.
- James, Arthur J. (See Davenport, A. L., and James.)
- James, Augustus, J., Springfield, Mass. Form for concrete conduits. No. 1,364,436; Jan. 4; v. 282; p. 76.
- James, Charles A., Philadelphia, Pa. Combination toilet box. No. 1,394,837; Oct. 25.
- James, Charles C., New York, and G. C. James, Yonkers, N. Y. Display apparatus. No. 1,375,005; Apr. 19; v. 285; p. 417.
- James, Charles E., Waverley, A. Sandilands, Woollahra, and W. E. Smith, Waverley, New South Wales, Australia. Convertible domestic furniture. No. 1,365,409; Jan. 11; v. 282; p. 306.
- James, Charles W., Jr., administrator. (See Phelps, James C.)
- James, Edward E., San Francisco, Calif. Slag-furnace. No. 1,392,504; Oct. 4.
- James, George C. (See James, Charles C., and G. C.)
- James, George F., and I. E. Smith, New York, N. Y. Attachment for stoves. No. 1,373,737; Apr. 5; v. 285; p. 69.
- James, Henry D. (See Newbury, F. D., and James.)
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,365,322; Jan. 11; v. 282; p. 290.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,365,323; Jan. 11; v. 282; p. 290.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,370,019; Mar. 1; v. 284; p. 50.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting device. No. 1,371,561; Mar. 15; v. 284; p. 455.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller. No. 1,379,691; May 31; v. 286; p. 887.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller. No. 1,386,002; Aug. 2; v. 289; p. 8.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch. No. 1,389,141; Aug. 30; v. 289; p. 865.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller. No. 1,389,142; Aug. 30; v. 289; p. 865.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,392,056; Sept. 27; v. 290; p. 731.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,392,057; Sept. 27; v. 290; p. 732.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,392,058; Sept. 27; v. 290; p. 732.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,392,059; Sept. 27; v. 290; p. 732.
- James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical switch. No. 1,396,845; Nov. 15.
- James, Henry D., Edgewood Park, and R. E. De Camp, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Control system. No. 1,392,060; Sept. 27; v. 290; p. 732.
- James, Henry V., Radlett, England. Material-feed-reel brake. No. 1,383,953; July 5; v. 288; p. 144.
- James, Joseph E. S., Philadelphia, Pa. Sponge-holder. No. 1,389,509; Aug. 30; v. 289; p. 938.
- James, Leslie, Chicago, Ill. Display-rack. No. 1,367,051; Feb. 1; v. 283; p. 34.
- James, Lewis R., Edgewater, N. J., assignor to Aluminum Company of America. Rolling-mill table. No. 1,367,052; Feb. 1; v. 283; p. 34.
- James Manufacturing Company. (See Olson, John B., assignor.)
- James Manufacturing Company. (See Shodron, J. C., and Olson, assignors.)
- James Manufacturing Company. (See Shodron, John G., assignor.)
- James, Owen, Brooklyn, N. Y. Fountain-brush. No. 1,389,665; Sept. 6; v. 290; p. 25.
- James, Robert L., Birmingham, Ala. Brake-holding device. No. 1,397,866; Nov. 22.
- James, Samuel C., et al. (See Northall, William H., assignor.)
- James, Theodore R., Robson, W. Va. Cigar and cigarette holder. No. 1,383,121; June 28; v. 287; p. 696.
- James, Thomas J., assignor to T. Thompson, Philadelphia, Pa. Armrest. No. 1,376,280; Apr. 26; v. 285; p. 694.
- James, William, Birkenhead, England. Carbureter. No. 1,370,449; Mar. 1; v. 284; p. 132.
- James, William A., London, England. Valve mechanism for internal-combustion engines. No. 1,397,585; Nov. 22.
- James, William F., Honolulu, Hawaii. Oil-tank valve. No. 1,398,025; Nov. 22.
- Jameson, Charles V., Chicago, Ill. Expression device for automatic musical instruments. No. 1,367,262; Feb. 1; v. 283; p. 76.
- Jameson, Charles V., Chicago, Ill. Pneumatic action for musical instruments. No. 1,367,263; Feb. 1; v. 283; p. 76.
- Jameson, Charles V., Chicago, Ill. Air-motor for automatic musical instruments. No. 1,392,278; Nov. 1.
- Jameson, Edgar E., and T. Kameron, assignors of one-third to Ed. Jones, Schlatter, Miss. Demountable rim. No. 1,367,895; Feb. 1; v. 283; p. 102.
- Jamison, Richard H. (See Stotler, F. W., and Jamison.)
- Jamison, Robert W., Mitchell, S. D. Traction-wheel. No. 1,372,142; Mar. 22; v. 284; p. 621.
- Jamison, J. Scott, et al. (See Blette, Henry C., assignor.)
- Jamopoulos, Stergos, assignor to The Eureka Metal Heel Company, Boston, Mass. Heel for footwear. No. 1,399,346; Dec. 6.
- Jamson, Nick. (See Contos, John A., assignor.)
- Jandron, Wilfred J., Minneapolis, Minn. Mask for inhalation. No. 1,391,060; Sept. 20; v. 290; p. 456.
- Jandy, Carl. (See Jansen, E. W., and Jandy.)
- Janecek, Joseph, Yuba, Wis. Non-sinkable ship. No. 1,368,935; Feb. 15; v. 283; p. 506.
- Janesville Machine Company. (See Krotz, Alvaro S., assignor.)



*Alphabetical list of patentees—Continued.*

- Janette, John T., Chicago, Ill. Bearing-lubricator. No. 1,390,445; Sept. 13; v. 290; p. 268.
- Janicke, Max, Halle-on-the-Saale, Germany. Feed device for the mandrels of machine-tools of all kinds. No. 1,400,072; Dec. 13.
- Janicki, John, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for covering cores. No. 1,378,961; May 24; v. 286; p. 675.
- Janicki, John, assignor to L. S. Szumkowski, Chicago, Ill. Speed-reducing mechanism. No. 1,382,289; June 21; v. 287; p. 484.
- Janisch, Maximilian P., Milwaukee, Wis., assignor, by mesne assignments, to Sealright Co., Inc., Fulton, N. Y. Expanding die. No. 1,385,833; July 26; v. 288; p. 738.
- Jankovich, Michael, Elmhurst, N. Y. Ground-leveling machine. No. 1,380,106; May 31; v. 286; p. 965.
- Janney, Frank G. (See Mitchell, B. A., and Janney.)
- Janney, Robert E. L., Chicago, Ill. Draft connection for car-couplings. No. 1,365,497; Jan. 11; v. 282; p. 324.
- Janney, Robert E. L., Chicago, Ill. Draft connection for car-couplings. No. 1,365,498; Jan. 11; v. 282; p. 324.
- Janney, Robert E. L., Chicago, Ill. Damper for talking machines. No. 1,394,176; Oct. 18.
- Janney, William E., Toronto, Ontario, Canada, H. E. Fisel and J. L. Miller, Pittsburgh, assignors of one-fourth to G. M. Lemmon, Pittsburgh, Pa. Plumbing apparatus. No. 1,377,776; May 10; v. 286; p. 324.
- Jannoch, Paul W., Pasadena, Calif. Glass-house roofing. No. 1,397,762; Nov. 22.
- Jansen, Aage, Portland, Oreg., assignor to Jensen Creamery Machinery Company, Inc. Method and apparatus for treating liquids. No. 1,396,632; Nov. 8.
- Jansen, E. W., New York, N. Y., and C. Jandy, Jersey City, N. J., assignors, by mesne assignments, to W. W. Snow, New York, N. Y. Apparatus for electric welding. No. 1,372,432; Mar. 22; v. 284; p. 677.
- Jansen, Thomas, New York, N. Y. Adjustable belt. No. 1,367,481; Feb. 1; v. 283; p. 119.
- Jansky, Charles J., Two Rivers, Wis. Closure for graves. No. 1,381,309; June 14; v. 287; p. 239.
- Janson, Carl G. (See Braun, C. J., and Janson.)
- Janson, Sigmund, Detroit, Mich. Direction signal or indicator. No. 1,380,479; June 7; v. 287; p. 29.
- Janssen, Hendrik J. J., Scheidam, Netherlands. Rotary pump or motor. No. 1,370,317; Mar. 1; v. 284; p. 106.
- Jansson, Arvid, Brooklyn, assignor to Marf Machine & Die Casting Co., Inc., New York, N. Y. Cutting-tool. No. 1,366,005; Jan. 18; v. 282; p. 463.
- Jansson, Bennett G., Saugus, assignor to C. C. Blake, Brookline, Mass. Insulated cleat. No. 1,366,661; Jan. 25; v. 282; p. 636.
- Jantzen, Carl C., Portland, Oreg., assignor to Jantzen Knitting Mills, Bathing-suit. No. 1,390,135; Sept. 6; v. 290; p. 116.
- Jantzen Knitting Mills. (See Jantzen, Carl C., assignor.)
- Januchowsky, John, Webster Groves, Mo. Reinforcing and sealing device. No. 1,394,678; Oct. 25.
- Janusch, Felix, College Point, N. Y. Vernier surface-gage. No. 1,372,433; Mar. 22; v. 284; p. 677.
- Janusonis, Jonas, Boston, Mass. Protecting-cover for stoves. No. 1,370,113; Mar. 1; v. 284; p. 67.
- Janzen, Henry C., Jansen, Nebr. Automatic antiskid-chain placer and remover. No. 1,376,771; May 3; v. 286; p. 74.
- Janzuck, Michael, Kokomo, Ind. Core-molding machine. No. 1,381,310; June 14; v. 287; p. 240.
- Jacques, C. F. (See Merritt, James M., assignor.)
- Jacques, Fernando O., Jr., assignor of one-third to L. S. Moulthrop, Providence, R. I. Dental press. No. 1,371,245; Mar. 15; v. 284; p. 391.
- Jaquette, Harry, Philadelphia, Pa. Changeable sign. No. 1,400,438; Dec. 13.
- Jaquiere, George H., Philadelphia, Pa. Stamping-press. No. 1,401,605; Dec. 27.
- Jaquiere, William, assignor to Fulford Mfg. Co., Providence, R. I. Snap-fastener stud. No. 1,373,076; Mar. 29; v. 284; p. 845.
- Jardine, James L., Penicuik, Scotland. Apparatus for preparing bamboo and kindred material for pulp extraction, &c. No. 1,372,512; Mar. 22; v. 284; p. 693.
- Jardine, James L., Penicuik, Scotland, assignor to Bamboo Paper Company, Limited, London, England. Apparatus for preparing bamboo and kindred material for pulp extraction. No. 1,398,861; Nov. 29.
- Jardine, John, Kingsway, London, England. Crane and like hoisting apparatus. No. 1,368,157; Feb. 8; v. 283; p. 306.
- Jardine, Thomas W., Englewood, N. J. Folding drawing-board. No. 1,371,624; Mar. 15; v. 284; p. 466.
- Jarecki, Frank J., Grand Rapids, Mich. Meat-holder. No. 1,365,410; Jan. 11; v. 282; p. 307.
- Jarnowski, Pete, Chicago, Ill. Railway-rail support. No. 1,399,123; Dec. 6.
- Jaroll, Louis, assignor to Cohan-Epner Co., New York, N. Y. Belt-buckle. No. 1,393,222; Oct. 11.
- Jaros, John, Oklahoma, Okla. Wrench. No. 1,368,801; Feb. 15; v. 283; p. 480.
- Jarosz, Wawzeniec. (See Nawracj, W., and Jarosz.)
- Jarred, Arthur, London, England. Clock, watch, and the like timekeeping instrument. No. 1,389,666; Sept. 6; v. 290; p. 21.
- Jarrett, Walter O., Toronto, Ontario, Canada. Heater for bathtubs, laundry tubs, or the like. No. 1,389,050; Aug. 30; v. 289; p. 847.
- Jarusz, Leon, Chicago, Ill. Scrubbing-machine. No. 1,393,133; Oct. 11.
- Jarvis, Edgar B. (See Morson, W. R., and Jarvis.)
- Jarvis, Edward A., West New Brighton, N. Y. Parking-lamp. No. 1,368,340; Feb. 15; v. 283; p. 390.
- Jarvis, Franklin W. (See Mies, F. P., and Jarvis.)
- Jarvis, Graham W., Charlottesville, Va. Automobile-signal. No. 1,397,424; Nov. 15.
- Jarvis, Harold, Toronto, Ontario, Canada. Self-closing tap. (Reissue.) No. 15,225; Nov. 15.
- Jarvis, Herbert C., Toronto, Ontario, Canada. Manufacture of wall-paper. No. 1,387,724; Aug. 16; v. 289; p. 474.
- Jarvis, Ida H., Brookline, Mass. Landscape. No. 1,395,575; Nov. 1.
- Jarvis, Levi, Cedar Rapids, Nebr. Hoe. No. 1,374,740; Apr. 12; v. 285; p. 304.
- Jarzyna, Frank, Detroit, Mich. Latch mechanism. No. 1,368,730; Feb. 15; v. 283; p. 466.
- Jasgur, Samuel, New York, N. Y. Garment-fastener. No. 1,369,437; Feb. 22; v. 283; p. 642.
- Jaslow, Leah, Brooklyn, N. Y. Child's garment. No. 1,395,115; Oct. 25.
- Jassaud, Jules, Neuilly-Plaisance, France. Roller for collecting currents on aerial conductors. No. 1,371,625; Mar. 15; v. 284; p. 466.
- Jaszewski, Maryan A., Bethlehem, Pa. Automobile-signal. No. 1,373,738; Apr. 5; v. 285; p. 69.
- Jaubert, George E., Paris, France. The manufacture of hydrogen by means of silicon and its alloys. No. 1,366,185; Jan. 18; v. 282; p. 497.
- Jay, Alice S., Brooklyn, N. Y. Music-roll for piano-players and producing same. No. 1,381,641; June 14; v. 287; p. 301.
- Jay, John T. W., et al. (See Rees, Frank W., assignor.)
- Jay, Webb, Chicago, Ill. Vacuum fuel-feed tank construction. No. 1,370,450; Mar. 1; v. 284; p. 132.
- Jay, Webb, Chicago, Ill. Cigar-lighter. No. 1,373,006; Mar. 29; v. 284; p. 832.
- Jay, Webb, Chicago, Ill. Suction-actuated pumping device. No. 1,390,617; Sept. 13; v. 290; p. 305.
- Jay, William N., Cleveland, Ohio. Lawn-swing. No. 1,376,698; May 3; v. 286; p. 60.
- Jayne, John H. (See Miller, H. E., and Jayne.)
- Jean, Wilfrid, Lowell, Mass. Valve. No. 1,398,432; Nov. 29.
- Jeanjaquet, Eugene, Swartz Creek, Mich. Vaginal syringe. No. 1,382,982; June 28; v. 287; p. 670.
- Jeannot, William E., assignor to West Michigan Steel Foundry Co., Muskegon, Mich. Carbonizing-box, annealing-pot, and similar article. No. 1,380,804; June 7; v. 287; p. 92.
- Jeantet, Georges, Bilbao, Spain. Explosion-motor. No. 1,386,572; Aug. 2; v. 289; p. 119.
- Jeapes, William C., London, England. Cinematograph-film-feeding apparatus. No. 1,381,840; June 14; v. 287; p. 339.
- Jeayes, Charles. (See Bullen, A. S., and Jeayes.)
- Jebb, Thomas B., Orillia, Ontario, Canada. Spectacle-frame. No. 1,396,213; Nov. 8.
- Jechort, Celestin E., Lankin, N. D. Daylight tank-loading machine. No. 1,387,403; Aug. 9; v. 289; p. 58.
- Jedrzykowski, Edmund, Chicago, Ill. Internal-combustion engine. No. 1,386,114; Aug. 2; v. 289; p. 30.
- Jeep, Louis C., Sioux City, Iowa. Tag-hook. No. 1,376,546; May 3; v. 286; p. 31.
- Jefferies, Ebenezer A. W., assignor to Jefferies-Norton Corporation, Worcester, Mass. Refrigerating apparatus. No. 1,379,102; May 24; v. 286; p. 702.
- Jefferies, John L., St. Louis, Mo. Clamp. No. 1,397,930; Nov. 22.
- Jefferies-Norton Corporation. (See Jefferies, Ebenezer A. W., assignor.)
- Jeffers, Jesse, Uxbridge, assignor to Whitin Machine Works, Whitinsville, Mass. Builder-motion. No. 1,373,508; Apr. 5; v. 285; p. 25.
- Jefferson, Benjamin H., assignor to Lyon & Healy, Chicago, Ill. Pedal device. No. 1,374,892; Apr. 12; v. 285; p. 334.
- Jefferson, Benjamin H., assignor to Lyon & Healy, Chicago, Ill. Pedal device. No. 1,379,570; May 24; v. 286; p. 790.
- Jefferson, Benjamin H., and W. I. Kirk, assignors to Lyon & Healy, Chicago, Ill. Pedal device for pianos and other purposes. No. 1,374,890; Apr. 12; v. 285; p. 333.
- Jefferson, Benjamin H., and W. I. Kirk, assignors to Lyon & Healy, Chicago, Ill. Pedal device for pianos and other purposes. No. 1,374,891; Apr. 12; v. 285; p. 333.
- Jeffrey Manufacturing Company, The. (See Armstrong, Walter J., assignor.)
- Jeffrey Manufacturing Company, The. (See Ball, Albert, assignor.)
- Jeffrey Manufacturing Company, The. (See Holmes, Morris P., assignor.)
- Jeffrey Manufacturing Company, The. (See Klenzle, Charles J., assignor.)
- Jeffrey Manufacturing Company. (See Leggett, William K., assignor.)
- Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)



*Alphabetical list of patentees—Continued.*

- Jeffrey Manufacturing Company, The. (See Lindenberg, Frank H., assignor.)
- Jeffrey Manufacturing Company, The. (See Osgood, Robert C., assignor.)
- Jeffrey Manufacturing Company, The. (See Richards, Ray S., assignor.)
- Jeffrey Manufacturing Company, The. (See Willson, Freeman R., assignor.)
- Jeffrey, Max L. (See Fies, Herbert W., assignor.)
- Jeffries, Roy D., Granada, Minn. Safety device for tractors. No. 1,384,957; July 19; v. 288; p. 482.
- Jeffs, Benjamin D. (See Gilchrist, W. A., and Jeffs.)
- Jeffs, Selma W., Santa Monica, Calif. Support for infants' bathtubs. No. 1,390,444; Sept. 13; v. 290; p. 268.
- Jehn, William E., assignor to Fibre Can Corporation, Chicago, Ill. Pouring-spout. No. 1,366,006; Jan. 18; v. 282; p. 463.
- Jelalian, Martin, Cranston, R. I. Vertically-operated buffing device for metal cases. No. 1,384,259; July 12; v. 288; p. 257.
- Jelalian, Martin, Cranston, R. I. Manually-operated buffing device for the inner face of rings. No. 1,387,778; Aug. 16; v. 289; p. 485.
- Jelalian, Martin, Cranston, R. I. Spring-cushion device for vehicle-tires. No. 1,393,377; Oct. 11.
- Jelenc, John, Port Washington, assignor of one-half to M. Jelenc, Milwaukee, Wis. Collapsible wardrobe and dresser. No. 1,372,229; Mar. 22; v. 284; p. 639.
- Jelenc, Martin. (See Jelenc, John, assignor.)
- Jelenko, J. F., & Co. (See Aderer, Hugo, assignor.)
- Jelley, Henry. (See Jelley, James and H.)
- Jelley, James, Coventry, and H. Jelley, Birmingham, England. Top of cycle and similar saddles. No. 1,376,547; May 3; v. 286; p. 32.
- Jelley, James, Coventry and H. J., Birmingham, England. Dies for use in the manufacture of the tops of cycle and similar saddles. No. 1,387,779; Aug. 16; v. 289; p. 485.
- Jellinek, Charles, and D. Stern, New York, N. Y. Chair. No. 1,379,263; May 24; v. 286; p. 732.
- Jenckes Knitting Machine Company. (See Miller, Max C., assignor.)
- Jenckes Spinning Company. (See Wood, William P., assignor.)
- Jenkins, Alexander F., Baltimore, Md. Nozzle for oxy-acetylene torches. No. 1,371,309; Mar. 15; v. 284; p. 404.
- Jenkins, B. Crawford, *et al.* (See Albright, Jacob J., assignor.)
- Jenkins, Charles D., Boston, Mass. Machine for making briquets. No. 1,376,096; Apr. 26; v. 285; p. 659.
- Jenkins, Charles F., Washington, D. C. Electric meter. No. 1,364,377; Jan. 4; v. 282; p. 64.
- Jenkins, Charles F., Washington, D. C. Aeroplane. No. 1,383,465; July 5; v. 288; p. 43.
- Jenkins, Charles F., Washington, D. C. Motion-picture machine. No. 1,385,325; July 19; v. 288; p. 557.
- Jenkins, Charles F., Washington, D. C. Producing light-beams. No. 1,390,445; Sept. 13; v. 290; p. 269.
- Jenkins, Charles F., Washington, D. C., assignor to The Graphoscope Company, New York, N. Y. Motion-picture apparatus. No. 1,378,462; May 17; v. 286; p. 506.
- Jenkins, Charles F., Washington, D. C., assignor to Moto-Mower Company, Detroit, Mich. Lawn-mower. No. 1,401,156; Dec. 27.
- Jenkins, Charles H., Belleville, N. J., assignor to Newman Clock Company, New York, N. Y. Watchman's clock. No. 1,370,543; Mar. 8; v. 284; p. 194.
- Jenkins, David R., Oakland, Calif. Window-sash tightener for vehicle-tops. No. 1,401,606; Dec. 27.
- Jenkins, Edwin M. (See Jackson, R. E., and Jenkins.)
- Jenkins, George M. O., Paris, France, assignor to Western Electric Company, Incorporated, New York, N. Y. Transmitter-mounting. No. 1,368,261; Feb. 15; v. 283; p. 374.
- Jenkins, Henry C., and H. Woolner, London, England. Manufacture of permanganates. No. 1,377,485; May 10; v. 286; p. 268.
- Jenkins, Jay, Beaumont, Calif. Oil-burner. No. 1,375,294; Apr. 19; v. 285; p. 474.
- Jenkins, John, Kennedy, Saskatchewan, Canada. Spout-support. No. 1,367,548; Feb. 8; v. 283; p. 190.
- Jenkins, John C., *et al.* (See Ball, George S., assignor.)
- Jenkins, Robert L., assignor to G. L. Christian, Jr., Richmond, Va. Demountable rim for wheels. No. 1,372,230; Mar. 22; v. 284; p. 639.
- Jenkins, Weston, Rome, N. Y., assignor to Rome Iron Mills, Inc. Rolling-mill apparatus for making hollow bars. No. 1,386,115; Aug. 2; v. 289; p. 31.
- Jenkins, William B., Barber, Idaho. Motor-vehicle sleigh. No. 1,385,251; July 19; v. 288; p. 543.
- Jenkins, William L., Niles, Ohio. Metal-plate opener. No. 1,368,223; Feb. 8; v. 283; p. 319.
- Jenkins, William L., Niles, Ohio. Device for rolling sheet metal with grooved bars. No. 1,376,699; May 3; v. 286; p. 60.
- Jenkins, Wilton F., Richmond, Va. Automobile-lock. No. 1,376,885; May 3; v. 286; p. 97.
- Jenks, Benjamin L. (See Yaggi, L. E., and Cameron, assignors.)
- Jenks, Benjamin L., J. L. Cameron, and L. E. Yaggi, Cleveland, Ohio. Firearm attachment. No. 1,371,899; Mar. 15; v. 284; p. 518.
- Jenks, Charles R., and R. O. Young, Cleveland, Ohio. Mixing device. No. 1,400,553; Dec. 20.
- Jenks, George F., *et al.*, trustees. (See Eidmann, Frank L., assignor.)
- Jenks, Harford P., Vigo, Ohio. Kiln. No. 1,386,116; Aug. 2; v. 289; p. 31.
- Jenks & Muir Manufacturing Company. (See Muir, William H., assignor.)
- Jenks, Ransaeffer J., Lewiston, Idaho. Automatic pressure-governor. No. 1,377,078; May 3; v. 286; p. 133.
- Jenne, Christian J., San Francisco, Calif. Electric-alarm system. No. 1,375,516; Apr. 19; v. 285; p. 516.
- Jennett, Robert, Chester, Pa. Change-gear. No. 1,375,846; Apr. 26; v. 285; p. 610.
- Jennings, Aaron E., Owensboro, assignor of one-half to S. J. Gish, Central City, Ky. Tire-tread. No. 1,395,576; Nov. 1.
- Jennings, Albert G., assignor of one-third to E. B. Dawson and one-third to R. B. L. Magruder, Brooklyn, N. Y. Dental applicator. No. 1,371,029; Mar. 8; v. 284; p. 287.
- Jennings Automatic Dump Body, Inc. (See Akers, Glen, assignor.)
- Jennings, Emerson P., Leighton, Pa. Sheet-supporting device. No. 1,392,061; Sept. 27; v. 290; p. 732.
- Jennings, Emerson P., Leighton, Pa. Sheet-supporting device for printing-presses. No. 1,392,062; Sept. 27; v. 290; p. 733.
- Jennings, Jarvis S., Jr., Detroit, Mich. Method of and means for governing explosive-engines. No. 1,379,186; May 24; v. 286; p. 717.
- Jennings, John C., Kansas City, Kans. Pillow-case. No. 1,380,480; June 7; v. 287; p. 30.
- Jennings, John H., Georgetown, Conn. Rail connecting and supporting means. No. 1,382,424; June 21; v. 287; p. 510.
- Jennings, Ode D. (See Barson, Harry W., assignor.)
- Jennings, Ray, La Grange, Mo. Cup. No. 1,380,481; June 7; v. 287; p. 30.
- Jennings, Thomas, Cincinnati, Ohio, assignor to The Underfeed Stoker Company of America, Chicago, Ill. Stoker. No. 1,391,061; Sept. 20; v. 290; p. 456.
- Jennings, Victor H., assignor, by mesne assignments, to Mills Belt Company, Worcester, Mass. Pocketed carrier equipment. No. 1,371,973; Mar. 15; v. 284; p. 533.
- Jennings, Victor H., assignor, by mesne assignments, to F. R. Batchelder, Worcester, Mass. Woven pocketed carrier. No. 1,373,739; Apr. 5; v. 285; p. 69.
- Jennings, William L., Girard, Tex. Wagon. No. 1,384,720; July 12; v. 288; p. 353.
- Jennison, Harry G., Toledo, Ohio. Wood-block pavement. No. 1,395,829; Nov. 1.
- Jennison, Lyman E., West Springfield, Mass. Micrometer height-gage. No. 1,390,618; Sept. 13; v. 290; p. 305.
- Jensen, Aage, Portland, Ore., assignor to Jensen Creamery Machinery Company. Liquid heating or cooling apparatus. No. 1,380,967; June 7; v. 287; p. 123.
- Jensen, Albert, assignor to Stroud & Company, Omaha, Nebr. Disk-plow bearing. No. 1,371,489; Mar. 15; v. 284; p. 440.
- Jensen-Beirlund, Hans P., Lisbon, Portugal. Torpedo. No. 1,375,157; Apr. 19; v. 285; p. 447.
- Jensen-Beirlund, Hans P., Lisbon, Portugal. Variable-pitch propeller. No. 1,380,305; May 31; v. 286; p. 1002.
- Jensen-Beirlund, Hans P., Lisbon, Portugal. Automatic clutch. No. 1,380,306; May 31; v. 286; p. 1002.
- Jensen, Carl C., and G. H. Irwin, assignors to Standard Fender Co., Chicago, Ill. Automobile-fender. No. 1,379,822; May 31; v. 286; p. 911.
- Jensen, Carl E., Chicago, Ill. Mechanical toy. No. 1,379,103; May 24; v. 286; p. 702.
- Jensen, Charles J., North Plainfield, N. J. Protected valve. No. 1,374,741; Apr. 12; v. 285; p. 304.
- Jensen Creamery Machinery Company. (See Jensen, Aage, assignor.)
- Jensen, George C., Oakland, Calif. Shifter-lock mechanism. No. 1,375,819; Apr. 5; v. 285; p. 86.
- Jensen, George C., Oakland, Calif. Mechanism for locking levers fulcrumed for universal swinging movements. No. 1,385,552; July 26; v. 288; p. 681.
- Jensen, George C., Oakland, Calif. Transmission-cover lock. No. 1,385,553; July 26; v. 288; p. 681.
- Jensen, George C., Oakland, Calif. Rotatable lock and interlock. No. 1,400,679; Dec. 20.
- Jensen, Henry N., Estherville, Iowa. Radiator for automobiles and the like. No. 1,396,633; Nov. 8.
- Jensen, Herman A., Castle Rock, Wash. Cable-coupling. No. 1,394,019; Oct. 18.
- Jensen, Herman G., Cleveland, Ohio. Game. No. 1,373,247; Mar. 29; v. 284; p. 879.
- Jessen, James, Minneapolis, Minn. Internal-combustion engine. No. 1,400,955; Dec. 20.
- Jensen, John, assignor to Whitney Metal Tool Company, Rockford, Ill. Machine element. No. 1,389,565; Aug. 30; v. 289; p. 950.
- Jensen, Lawrence H., St. Charles, Ill. Pump. No. 1,396,214; Nov. 8.
- Jensen, Louis, assignor to United Autographic Register Co., Chicago, Ill. Autographic register. No. 1,386,709; Aug. 9; v. 289; p. 219.



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- Jensen Manufacturing Co. (See Jensen, Walter E., assignor.)
- Jensen, Olaf, Notodden, assignor to Norsk Hydro Elektrisk Kvaelfstafaktieselskab, Christiania, Norway. Concentration of nitric acid. No. 1,395,577; Nov. 1.
- Jensen, Ole P., and A. P. Andersen, Copenhagen, Denmark. Homogenizer for cream and other liquids. No. 1,374,742; Apr. 12; v. 285; p. 305.
- Jensen, Soren, Los Angeles, Calif. Pencil-sharpener. No. 1,375,295; Apr. 19; v. 285; p. 474.
- Jensen, Walter E., San Diego, assignor to Jensen Manufacturing Co., Los Angeles, Calif. Mixing device. No. 1,401,475; Dec. 27.
- Jenson, James B., Salt Lake City, Utah. Extracting apparatus. No. 1,388,718; Aug. 23; v. 289; p. 726.
- Jenson, Louis J., Fort Collins, Colo. Automatic hay sweep cleaner. No. 1,371,423; Mar. 15; v. 284; p. 427.
- Jeppson, George N., assignor to Norton Company, Worcester, Mass. Terrazzo flooring. No. 1,371,683; Mar. 15; v. 284; p. 478.
- Jeppson, George N., assignor to Norton Company, Worcester, Mass. Making safety-treads. No. 1,371,684; Mar. 15; v. 284; p. 478.
- Jepson, John, and J. R. Connolly, Maricopa, Calif. Magneto-contact. No. 1,370,114; Mar. 1; v. 284; p. 68.
- Jepson, John W., Buffalo, assignor to The Prest-O-Lite Company, Inc., New York, N. Y. Starting internal-combustion engines. No. 1,388,863; Aug. 30; v. 289; p. 810.
- Jepson, John W., Buffalo, assignor to The Prest-O-Lite Company, Inc., New York, N. Y. Apparatus for starting internal-combustion engines. No. 1,388,864; Aug. 30; v. 289; p. 810.
- Jerabek, Charles, assignor to Louis Rothschild, Philadelphia, Pa. Auto-tire-tube carrier. No. 1,364,437; Jan. 4; v. 282; p. 76.
- Jerdone, Francis, Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Fuel-reserve-supply system. No. 1,390,446; Sept. 13; v. 290; p. 269.
- Jerdone, Francis, Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Fuel-reserve-supply system for self-propelled vehicles. No. 1,397,523; Nov. 22.
- Jergens, Andrew, Company. (See Liddle, Leonard M., assignor.)
- Jernstedt, George R., Jersey City, N. J. Valve construction. No. 1,365,694; Jan. 18; v. 282; p. 401.
- Jerome, Joseph. (See Eberhardt, George O., assignor.)
- Jerone, Don Angelo, Florence, Italy. Moistureproof paint composition. No. 1,401,261; Dec. 27.
- Jerram, Arthur E., and F. B. Keall, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Gripper mechanism for lasting-machines. No. 1,372,882; Mar. 29; v. 284; p. 807.
- Jerrim, James H., Bromsgrove, England. Machine or other vise. No. 1,368,399; Feb. 15; v. 283; p. 401.
- Jerruss, Joseph, and A. F. Fregly, Patton, Pa. Safety lock-bolt. No. 1,374,015; Apr. 5; v. 285; p. 124.
- Jespersen, Aksel T., Omaha, Nebr. Wedge. No. 1,380,559; June 7; v. 287; p. 45.
- Jespersen, Elmer E., Ashland, Nebr. Corn-elevator. No. 1,365,173; Jan. 11; v. 282; p. 261.
- Jespersen, Jens, Des Moines, Iowa. Timer-cover device. No. 1,375,390; Apr. 19; v. 285; p. 491.
- Jessen, James, Minneapolis, Minn. Ignition mechanism for combustion-engines. No. 1,377,688; May 10; v. 286; p. 306.
- Jessen, James, Milwaukee, Wis., assignor, by mesne assignments, to Industrial Research Corporation. Transmission mechanism. No. 1,371,376; Mar. 15; v. 284; p. 418.
- Jessen, Thomas P., Newark, N. J. Toy. No. 1,376,281; Apr. 26; v. 285; p. 694.
- Jessup, Albert H., assignor to American Sterilizer Company, Erie, Pa. Sterilizer. No. 1,392,944; Oct. 11.
- Jessup, James H., Salem, Ohio. Cable-tie hanger. No. 1,384,761; July 19; v. 288; p. 442.
- Jessup, James H., Salem, Ohio. Cable-tie-clamping device. No. 1,384,762; July 19; v. 288; p. 442.
- Jester, Marvin H., Philadelphia, Pa. Building device. No. 1,364,880; Jan. 11; v. 282; p. 205.
- Jeter, Thomas F., Snohomish, Wash. Burial-vault. No. 1,391,886; Sept. 20; v. 290; p. 522.
- Jett, George C., assignor, by mesne assignments, of two-fifths to W. H. Stienke, Milwaukee, Wis. Bearing. No. 1,383,466; July 5; v. 288; p. 43.
- Jette, August G., and A. Johnson, Buffalo, N. Y. Pressure-controlled flow-directing means for compound meters. No. 1,386,177; Aug. 2; v. 289; p. 43.
- Jewell, Ariel C., Chicago, Ill. Still. No. 1,369,438; Feb. 22; v. 283; p. 642.
- Jewell, Harry H., Oakland, Calif. Direction-indicator. No. 1,388,570; Aug. 23; v. 289; p. 697.
- Jewell, Herbert S., deceased, by L. Jewell, executrix, Brooklyn, N. Y. Purifying middlings and other materials. No. 1,400,165; Dec. 13.
- Jewell, James E., Kansas City, Mo. Self weighing and sacking machine. No. 1,386,506; Aug. 2; v. 289; p. 105.
- Jewell, James W., et al. (See Shrum, Will N., assignor.)
- Jewell, John, Duluth, Minn. Hand-truck. No. 1,367,396; Feb. 1; v. 283; p. 102.
- Jewell, Lida, executrix. (See Jewell, Herbert S., assignor.)
- Jewett, Charles E., North Andover, and F. Fitzgerald, Lawrence, Mass. Stop-motion for combs. No. 1,381,467; June 14; v. 287; p. 269.
- Jewett, Charles E., North Andover, and F. Fitzgerald, Lawrence, Mass. Brush. No. 1,397,586; Nov. 22.
- Jewett Phonograph Company. (See Bell, Raymond T., assignor.)
- Jewett, Sherman S., Buffalo, N. Y. Oven-burner. No. 1,393,786; Oct. 18.
- Jex, John, Newark, Del. Pyrotechnic device. No. 1,397,425; Nov. 15.
- Jex, William A., Rochester, N. Y. Differential mechanism. No. 1,366,805; Jan. 25; v. 282; p. 664.
- Jezova, Mary, Wallis, Tex. Snowplow. No. 1,396,846; Nov. 15.
- Jicha, Mathew, Bridgeport, Ohio. Horseshoe. No. 1,381,642; June 14; v. 287; p. 302.
- Jicha, Mathew, Bridgeport, Ohio. Antispreading device for railway-rails. No. 1,394,734; Oct. 25.
- Jiffy Dessert Company. (See Hulbert, Edwin F., assignor.)
- Jillard, Annis G., Berwyn, and S. Bracken, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Manufacture of insulating supporting-blocks. No. 1,396,759; Nov. 15.
- Jillson, Harlan S., Turners Falls, Mass. Tool for compressing valve-springs. No. 1,384,958; July 19; v. 288; p. 482.
- Jimas, John, Alton, Ill. Bottle-conveying machine. No. 1,399,260; Dec. 6.
- Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-actuated rotary tool. No. 1,385,134; July 19; v. 288; p. 520.
- Jobe, Fred D., Roundup, Mont. Cooking vessel. No. 1,390,908; Sept. 13; v. 290; p. 363.
- Jobke, August F., Pittsburgh, Pa. Focusing device. No. 1,399,347; Dec. 6.
- Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,372,231; Mar. 22; v. 284; p. 639.
- Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,400,956; Dec. 20.
- Jodoin, Dieu D., Plainfield, Conn. Picker-check for looms. No. 1,387,404; Aug. 9; v. 289; p. 358.
- Joeck, Thomas D. (See Burton, F. F., and Joeck.)
- Joels, Frederick H. (See Edmonds, H. A., and Joels.)
- Joerger, Frank, Brooklyn, N. Y. Paintbrush ferrule and making the same. No. 1,375,847; Apr. 26; v. 285; p. 610.
- Joerges, Charles W., assignor of one-half to H. Bucher, Irvington, N. J. Toilet implement. No. 1,370,818; Mar. 8; v. 284; p. 248.
- Joha, Elmer N., assignor to Reliable Knitting Works, Milwaukee, Wis. Knitted cap and making the same. No. 1,394,093; Oct. 18.
- Johannes, Nicholas A., Port Washington, Wis. Bean-snapper. No. 1,400,290; Dec. 13.
- Johannesen, Svend E., Pittsfield, Mass., assignor to General Electric Company. Tank for electric apparatus. No. 1,374,662; Apr. 12; v. 285; p. 290.
- Johansen, Ernst M., assignor to The Atlantic Refining Company, Philadelphia, Pa. Emulsion and producing it. No. 1,373,661; Apr. 5; v. 285; p. 54.
- Johansen, Harry C., Chicago, Ill., assignor to Sullivan Machinery Company. Clamping mechanism. No. 1,399,261; Dec. 6.
- Johansen, Johan M., Trondhjem, Norway. Apparatus for tightening leakages in and about boiler-tubes and the like. No. 1,395,186; Oct. 25.
- Johanson, Emil G., Chicago, Ill. Transmission-gear. No. 1,367,264; Feb. 1; v. 283; p. 76.
- Johanson, Magnus H. (See Todd, L. M., and Johanson.)
- Johanson, Pehr, and E. A. Francke, assignors to Norton Company, Worcester, Mass. Shaping device for articles made of ceramic bonded material. No. 1,376,773; May 3; v. 286; p. 74.
- Johanson, Per F., Trail, Oreg. Fruit-thinning implement. No. 1,378,791; May 17; v. 286; p. 570.
- Johanson, Reiert, Odda, Hardanger, Norway. Hydraulic transformer. No. 1,377,585; May 10; v. 286; p. 286.
- Johansson, C. E., Inc. (See Aldeborgh, Erik H., assignor.)
- Johansson, Carl E. (See Aldeborgh, Erik H., assignor.)
- Johansson, Erik, Edsbyn, Sweden. Hand-rail and the like and manufacturing same. No. 1,372,819; Mar. 29; v. 284; p. 794.
- Johansson, George K. V., Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Flashlight signal apparatus. No. 1,382,784; June 28; v. 287; p. 633.
- Johansson, Klas H., assignor to Aktiebolaget Lindens Hemmaskiner, Nässjö, Sweden. Combined bearing and coupling device for power-transmitting devices. No. 1,368,034; Feb. 8; v. 283; p. 282.
- Johantgen, Oliver D., assignor to Victor Adding Machine Co., Chicago, Ill. Rack-bar and bearing for calculating-machines and the like. No. 1,378,119; May 17; v. 286; p. 442.
- Johantgen, Oliver D., assignor to Victor Adding Machine Co., Chicago, Ill. Clear-signal-printing mechanism for listing-machines and the like. No. 1,396,215; Nov. 8.
- Johlin, Jacob M., assignor to Smet-Solvay Company, Syracuse, N. Y. Forming diphenyl oxid. No. 1,372,434; Mar. 22; v. 284; p. 677.



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- John, Adam, Boston, Mass. Cushion-tire. No. 1,398,862; Nov. 29.
- John, Benjamin E., assignor to The John's Machine & Stamping Works Company, Cleveland, Ohio. Wagon. No. 1,371,246; Mar. 15; v. 284; p. 392.
- John, Ferdinand, Erkelenz, Rhineland, Germany. Safety device for reciprocating machines. No. 1,370,115; Mar. 1; v. 284; p. 68.
- John, Ferdinand, Erkelenz, Rhineland, Germany. Rotary key-coupling. No. 1,371,787; Mar. 15; v. 284; p. 497.
- John, Robert, New York, N. Y., assignor to Iconochrome Company of America, Inc. Photographic reproduction. No. 1,374,853; Apr. 12; v. 285; p. 326.
- John, William N., Milwaukee, Wis. Chuck. No. 1,381,196; June 14; v. 287; p. 219.
- John, William N., Milwaukee, Wis. Reversible tapping-chuck. No. 1,381,197; June 14; v. 287; p. 219.
- Johne, Otto, Bautzen, Germany. Platen printing-press. No. 1,399,431; Dec. 6.
- Johns, George M., St. Louis, Mo. Air-service station. No. 1,364,378; Jan. 4; v. 282; p. 64.
- Johns, George M., St. Louis, Mo. Pump. No. 1,367,702; Feb. 8; v. 283; p. 220.
- Johns, George M., assignor to Machine Products Company, St. Louis, Mo. Speed-governor for electric motors. No. 1,390,619; Sept. 13; v. 290; p. 305.
- John's Machine & Stamping Works Company, The. (See John, Benjamin E., assignor.)
- Johns Machine and Stamping Works Company, The. (See Stich, Charles F., assignor.)
- Johns, Luther, Oak Park, Ill. Child's convertible vehicle. No. 1,379,305; May 24; v. 286; p. 740.
- Johns, Luther, Oak Park, Ill. Vehicle for children. No. 1,383,307; July 5; v. 288; p. 10.
- Johns-Manville. (See Hoffman, William A., assignor.)
- Johns-Manville, H. W., Company. (See Carson, Clarence, assignor.)
- Johns-Manville Incorporated. (See Latimer, John W., assignor.)
- Johns, Morgan J., Miles City, Mont. Automatic pressure-operated valve for engines or pumps. No. 1,394,679; Oct. 25.
- Johns-Pratt Company, The. (See Cole, Robert C., assignor.)
- Johns, Robert A., and F. L. Myers, Mobile, Ala. Combined dispensing and refrigerating apparatus. No. 1,378,792; May 17; v. 286; p. 571.
- Johnsen, Arthur, Saskatoon, Saskatchewan, assignor of forty-five per cent. to J. A. MacDonald, Drumheller, Alberta, Canada. Base-supported railway-rail joint. No. 1,400,291; Dec. 13.
- Johnsen, John, New Brighton, N. Y. Combined jack and clamp. No. 1,376,017; Apr. 26; v. 285; p. 644.
- Johnsen, Svend, Winnipeg, Manitoba, Canada. Automatic clock-controlled switch-operating device. No. 1,393,447; Oct. 11.
- Johnson, Aaron. (See Clark, Robert G., assignor.)
- Johnson, Aben E., and L. H. Taffee, assignors to Hastings Manufacturing Company, Hastings, Mich. Spring-oiler. No. 1,370,588; Mar. 8; v. 284; p. 203.
- Johnson, Adolph, Battle Creek, Mich. Conveyor-scraper for cereal-ovens. No. 1,367,549; Feb. 8; v. 283; p. 190.
- Johnson, Alexander, and W. R. Anderson, Batavia, Ill. Clothesline-fastener. No. 1,381,311; June 14; v. 287; p. 240.
- Johnson, Albert. (See Matthews, Newton W., assignor.)
- Johnson, Albert B., New Britain, Conn. Forceps. No. 1,395,714; Nov. 1.
- Johnson, Albert C., Stillwater, Minn. Rotary steam-engine. No. 1,389,874; Sept. 6; v. 290; p. 63.
- Johnson, Albert E., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for preparing insoles. No. 1,384,804; July 19; v. 288; p. 451.
- Johnson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for preparing insoles. No. 1,394,905; Oct. 25.
- Johnson, Alfred C., Winters, Calif. Tractor-wheel. No. 1,389,875; Sept. 6; v. 290; p. 63.
- Johnson, Alfred R., Reedsville, Pa. Strapholder. No. 1,394,906; Oct. 25.
- Johnson, Alfred E., Racine, Wis. Doughnut-cutter. No. 1,380,560; June 7; v. 287; p. 45.
- Johnson, Alfred H., assignor to National-Standard Company, Niles, Mich. Lifting-jack. No. 1,381,125; June 14; v. 287; p. 206.
- Johnson, Alfred L., Boardman, Wis. Quack-grass destroyer. No. 1,387,725; Aug. 16; v. 289; p. 474.
- Johnson, Alvia E., St. Francis, Kans. Tractor-hitch. No. 1,378,793; May 17; v. 286; p. 571.
- Johnson, Alva W. B., Birmingham, Ala. Self-service store. No. 1,380,968; June 7; v. 287; p. 124.
- Johnson, Annie M. (See Gray, George B. M., assignor.)
- Johnson, Arley M., Belle Center, Ohio. Hog-holder. No. 1,372,952; Mar. 29; v. 284; p. 821.
- Johnson, Aron, Brooklyn, N. Y. Adjustable die for punch-presses. No. 1,370,116; Mar. 1; v. 284; p. 68.
- Johnson, Arthur A., Washington, D. C. Autographic register and the like. No. 1,368,994; Feb. 15; v. 283; p. 516.
- Johnson, Arthur B., Las Animas, Colo. Rotary engine. No. 1,378,415; May 17; v. 286; p. 498.
- Johnson, Arthur B., U. S. Navy. Automatic regulating-valve. No. 1,392,334; Oct. 4.
- Johnson, Arthur G., Spokane, Wash. Crank-shaft holder. No. 1,383,634; July 5; v. 288; p. 78.
- Johnson, Arthur K., Holly, Colo. Bushing-tool. No. 1,382,834; June 28; v. 287; p. 641.
- Johnson, Arthur K., Holly, Colo. Bushing-tool. No. 1,382,835; June 28; v. 287; p. 642.
- Johnson, Asa, Dayton, Tenn. Two-wheel road-grader and field-ditcher. No. 1,398,326; Nov. 29.
- Johnson, August, Pittsburgh, Pa. Holding device. No. 1,388,043; Aug. 16; v. 289; p. 536.
- Johnson, August, Portland, Oreg. Grate-bar. No. 1,401,783; Dec. 27.
- Johnson, August G., Monessen, assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Reel. No. 1,366,186; Jan. 18; v. 282; p. 497.
- Johnson, August G., Monessen, assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Wire-fence machine. No. 1,390,293; Sept. 13; v. 290; p. 239.
- Johnson, August L., Medford, Mass. Oiling system for automobiles. No. 1,396,959; Nov. 15.
- Johnson, Augusta S., Philadelphia, Pa. Garter-clasp. No. 1,368,553; Feb. 15; v. 283; p. 433.
- Johnson, Augusta S., Philadelphia, Pa. Foldable umbrella. No. 1,378,354; May 17; v. 286; p. 485.
- Johnson, Augusta S., Philadelphia, Pa. Garter-clasp. (Reissue.) No. 15,164; July 26; v. 288; p. 766.
- Johnson Automobile Lock Co. (See Imhoff, John H., assignor.)
- Johnson Automobile Lock Co. (See Johnson, Colvin L., assignor.)
- Johnson, Axel. (See Jette, A. G., and Johnson.)
- Johnson, Axel, Oakland, Calif. Means for controlling the period of cook of packaged products. No. 1,380,805; June 7; v. 287; p. 92.
- Johnson, Axel, Oakland, Calif. Container-transfer for pressure cookers and coolers. No. 1,389,447; Aug. 30; v. 289; p. 926.
- Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Apparatus for marking can ends and positioning the same upon can-bodies. No. 1,371,685; Mar. 15; v. 284; p. 478.
- Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Apparatus for seaming ends to can-bodies. No. 1,372,953; Mar. 29; v. 284; p. 821.
- Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Apparatus for truing can-bodies and positioning ends thereupon. No. 1,393,134; Oct. 11.
- Johnson, Axel W., Portland, Oreg. Signal. No. 1,380,969; June 7; v. 287; p. 124.
- Johnson, Banner J., Kansas City, Mo. Gate. No. 1,364,934; Jan. 11; v. 282; p. 215.
- Johnson, Benjamin, Leavenworth, Kans. Fishing-cork. No. 1,371,170; Mar. 8; v. 284; p. 314.
- Johnson, Benjamin F., Cleveland, Ohio. Rotary cutter-sharpening device. No. 1,367,703; Feb. 8; v. 283; p. 220.
- Johnson, Benjamin F., Cleveland, Ohio. Pipe. No. 1,376,548; May 3; v. 286; p. 32.
- Johnson, Benjamin F., Baltimore, Md. Trolley-pole retriever. No. 1,385,621; July 26; v. 288; p. 695.
- Johnson, Bradley S., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-gear. No. 1,372,698; Mar. 29; v. 284; p. 769.
- Johnson, Bradley S., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,398,696; Nov. 29.
- Johnson, Bror A. E. (See Elkström, G. C., Johnson, and Orström.)
- Johnson, Bruce P., assignor to himself, C. E. Matthews, and W. Waters, Midvale, Utah. Shoe-dressing. No. 1,370,819; Mar. 8; v. 284; p. 248.
- Johnson, Burton L., Knoxville, Tenn. Display-cabinet. No. 1,379,867; May 31; v. 286; p. 920.
- Johnson, Carl O., St. Paul, Minn. Meat-tenderer. No. 1,391,119; Sept. 20; v. 290; p. 468.
- Johnson, Carter J., Green Bay, Wis. Turnbuckle-wrench. No. 1,397,810; Nov. 22.
- Johnson, Charles A. (See Svendsen, C. L. E., and Johnson.)
- Johnson, Charles A., Clark Fork, Idaho. Saw-set. No. 1,374,743; Apr. 12; v. 285; p. 305.
- Johnson, Christian A., and J. P. Carruthers, Denver, Colo. Priming device. No. 1,399,625; Dec. 6.
- Johnson, Charles C., Baltimore, Md. Trolley-guard. No. 1,371,788; Mar. 15; v. 284; p. 498.
- Johnson, Charles E., Philadelphia, Pa. Heat concentrating and deflecting device. No. 1,366,806; Jan. 25; v. 282; p. 664.
- Johnson, Charles G., assignor of one-half to N. L. Larsen, Sault Ste. Marie, Mich. Life-saving buoy. No. 1,377,486; May 10; v. 286; p. 269.
- Johnson, Charles H., and W. Jersey City, N. J. Duplex boiler-gage. No. 1,374,081; Apr. 5; v. 285; p. 136.
- Johnson, Charles H., Saulsbury, assignor of one-third to G. O. Lipe and one-third to P. K. Dry, Landis, N. C. Drawing-roll mechanism for spinning-frames. No. 1,396,122; Nov. 8.



- Johnson, Charles J., Bloomfield, assignor of one-half to G. A. Johnson, Newark, N. J. Automatic trailer-coupling mechanism. No. 1,373,431; Apr. 5; v. 285; p. 10.
- Johnson, Charles J., Elk River, Minn. Sled. No. 1,387,546; Aug. 16; v. 289; p. 438.
- Johnson, Charles M., Avalon, Pa. Producing alloy steels. No. 1,366,662; Jan. 25; v. 282; p. 636.
- Johnson, Charles M., Avalon, Pa. High-speed steel. No. 1,370,020; Mar. 1; v. 284; p. 51.
- Johnson, Charles M., Avalon, Pa. Reduction of metallic oxids. No. 1,370,021; Mar. 1; v. 284; p. 51.
- Johnson, Charles S., Chula Vista, Calif. Weed-cutter and cultivator. No. 1,365,037; Jan. 11; v. 282; p. 236.
- Johnson, Charles S., Toledo, Ohio. Power-shovel. No. 1,391,737; Sept. 27; v. 290; p. 667.
- Johnson, Charles W., assignor to Wm. Wrigley Jr. Company, Chicago, Ill. Culling-machine. No. 1,392,505; Oct. 4.
- Johnson, Charley, Seattle, Wash., assignor of one-half to C. W. Parker, Leavenworth, Kans. Amusement device. No. 1,376,886; May 3; v. 286; p. 97.
- Johnson, Chester F., Detroit, Mich. Carbureter. No. 1,375,006; Apr. 19; v. 285; p. 418.
- Johnson, Chester F., Detroit, Mich. Carbureter. No. 1,378,867; May 24; v. 286; p. 657.
- Johnson, Chester F., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,377,352; May 10; v. 286; p. 243.
- Johnson, Claes J. and G. A., Chicago, Ill. Hinge. No. 1,375,635; Apr. 19; v. 285; p. 538.
- Johnson, Clair L., Chicago, Ill. Space-band. No. 1,383,635; July 5; v. 288; p. 78.
- Johnson, Clara E., Remsen, Iowa. Phonograph-record-filing rack. No. 1,371,766; Mar. 15; v. 284; p. 463.
- Johnson, Clarence C., Mount Vernon, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Registry system. No. 1,394,839; Oct. 25.
- Johnson, Clarence C., New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Watchman's tour signal system. No. 1,394,841; Oct. 25.
- Johnson, Clarence C., Mount Vernon, N. Y., and R. M. Hopkins, Rutherford, assignors to American District Telegraph Company, Jersey City, N. J. Registry system and register therefor. No. 1,394,838; Oct. 25.
- Johnson, Clarence C., Metuchen, and R. M. Hopkins, Rutherford, assignors to American District Telegraph Company, Jersey City, N. J. Registry apparatus. No. 1,394,840; Oct. 25.
- Johnson, Clarence E., Kankakee, Ill. Shaker. No. 1,389,510; Aug. 30; v. 289; p. 939.
- Johnson, Clarence V., Yates Center, Kans. Automobile-windshield attachment. No. 1,376,887; May 3; v. 286; p. 97.
- Johnson, Clifford N., assignor to The Conklin Pen Manufacturing Company, Toledo, Ohio. Pencil. No. 1,368,262; Feb. 15; v. 283; p. 375.
- Johnson, Clyde A., San Diego, Calif. Gradometer. No. 1,398,433; Nov. 29.
- Johnson Coin Counting Machine Company. (See Baur, Hugo J., assignor.)
- Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Gear-shift-lever lock. No. 1,369,925; Mar. 1; v. 284; p. 33.
- Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Locking device. No. 1,380,719; June 7; v. 287; p. 75.
- Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Locking device. No. 1,380,720; June 7; v. 287; p. 75.
- Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Gear-shift-lever lock. No. 1,394,258; Oct. 18.
- Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Automobile-tire-lock cable. No. 1,394,259; Oct. 18.
- Johnson, Colvin L., assignor to Johnson Automobile Lock Co., Chicago, Ill. Gear-shift-lever lock. (Reissue.) No. 1,510,5; May 17; v. 286; p. 578.
- Johnson, Dessie B., administratrix. (See Johnson, Jere.)
- Johnson, Edward, Burslem, Stoke-upon-Trent, England. Power-driven press. No. 1,397,890; Nov. 22.
- Johnson, Edward E., St. Paul, Minn. Making couplings. No. 1,369,975; Mar. 1; v. 284; p. 42.
- Johnson, Edward E., St. Paul, Minn. Railway water-column. No. 1,378,236; May 17; v. 286; p. 464.
- Johnson, Edward E., St. Paul, Minn. Mechanical movement. No. 1,383,308; July 5; v. 288; p. 10.
- Johnson, Edward E., St. Paul, Minn. Water-column. No. 1,391,545; Sept. 20; v. 290; p. 555.
- Johnson, Edward W., Chicago, Ill. Aerial torpedo or bomb. No. 1,396,634; Nov. 8.
- Johnson, Eldridge R., Merion, Pa., assignor to Victor Talking Machine Company, Talking-machine. No. 1,379,345; May 24; v. 286; p. 748.
- Johnson, Enos H., assignor of one-half to C. N. Howard, Los Angeles, Calif. Auto baggage-carrier. No. 1,388,044; Aug. 16; v. 289; p. 536.
- Johnson, Erik, Chicago, Ill. Traveling lawn-sprinkler. No. 1,375,296; Apr. 19; v. 285; p. 474.
- Johnson, Ernest, and A. Nordquist, Gary, Ind. Coke-oven and charging mechanism. No. 1,382,916; June 28; v. 287; p. 657.
- Johnson, Ernest, and A. Nordquist, Gary, Ind. Coke-oven. No. 1,382,917; June 28; v. 287; p. 917.
- Johnson, Ernest N., Winnipeg, Manitoba, Canada. Switch-rail. No. 1,393,538; Oct. 11.
- Johnson, Ernest S., assignor of one-half to W. B. Rood, Webster City, Iowa. Stock-watering device. (Reissue.) No. 1,513,9; July 5; v. 288; p. 161.
- Johnson, Evans S., Louis, Okla. Spring-tire. No. 1,395,420; Nov. 1.
- Johnson Fare Box Company. (See Woodward, Arthur H., assignor.)
- Johnson Fare Box Company. (See Johnson, Jay M., assignor.)
- Johnson, Francis T., Chicago, Ill. Drier. No. 1,397,100; Nov. 15.
- Johnson, Frank, Aurora, Ill. Pump. No. 1,378,543; May 17; v. 286; p. 522.
- Johnson, Frank A. (See Pope, H. M., and Johnson.)
- Johnson, Frank E., Salt Lake City, Utah, assignor to American Manganese Steel Company, Chicago, Ill. Mine-car wheel. No. 1,383,309; July 5; v. 288; p. 10.
- Johnson, Frank E., Trinidad, Colo. Weaner. No. 1,384,721; July 12; v. 288; p. 353.
- Johnson, Frank E., Trinidad, Colo. Weaner. No. 1,395,116; Oct. 25.
- Johnson, Frank M., Mitcham, assignor of one-half to Firm of Cafferata & Co., Newark-on-Trent, England. Plaster-slab-molding machine. No. 1,380,721; June 7; v. 287; p. 76.
- Johnson, Frank M., Mitcham, assignor of one-half to Cafferata & Co., Newark-upon-Trent, Nottingham, England. Plaster-slab-molding machine. No. 1,399,485; Dec. 6.
- Johnson, Fred, Burnley, England. Adjustable last for use in making and repairing boots, shoes, and the like by hand. No. 1,395,578; Nov. 1.
- Johnson, Frederick D., and H. Cullen, Baltimore, Md. Auxiliary automobile license-tag. No. 1,398,489; Nov. 29.
- Johnson, Frederick G. L., assignor to Vickers Limited, Westminster, England. Vent-sealing percussion-primer. No. 1,400,554; Dec. 20.
- Johnson, Frederick I., Warren, R. I. Conduit-end protector. No. 1,381,073; June 7; v. 287; p. 144.
- Johnson, Frederick I., assignor to M. W. Johnson, Warren, R. I. Wiring-conduit cap. No. 1,382,510; June 21; v. 287; p. 526.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,378,868; May 24; v. 286; p. 657.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Ladder. No. 1,397,216; Nov. 15.
- Johnson, George A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Reinforced end for box-cars. No. 1,398,697; Nov. 29.
- Johnson, Gustave F., Waukegan, Ill. Cushion-spring. No. 1,395,421; Nov. 1.
- Johnson, George T., Waco, Tex. Tool-handle. No. 1,388,571; Aug. 23; v. 289; p. 697.
- Johnson, George T., and H. W. Stertzbach, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Truck side frame. No. 1,378,794; May 17; v. 286; p. 571.
- Johnson, George T., New York, N. Y. Dispensing-fixture. No. 1,399,432; Dec. 6.
- Johnson, George W., Manufacturing Company. (See Bum-barger, Clarence R., assignor.)
- Johnson, George L. N., assignor to C. P. Rood, Watsonville, Calif. Gas generator and burner. No. 1,373,616; Apr. 5; v. 285; p. 46.
- Johnson, George M., McDonald, Pa. Safety horn-block and tripping mechanism. No. 1,364,627; Jan. 4; v. 282; p. 111.
- Johnson, George M., McDonald, Pa. Safety-horn block. No. 1,372,753; Mar. 29; v. 284; p. 780.
- Johnson, George S., Brainerd, Minn. Suction-box for paper-making machines. No. 1,375,517; Apr. 19; v. 285; p. 516.
- Johnson, Gustaf I., Malden, Mass. Flash-light. No. 1,366,461; Jan. 25; v. 282; p. 596.
- Johnson, Gustav A. (See Johnson, Charles J., assignor.)
- Johnson, Gustav, Duluth, Minn. Mowing-machine attachment. No. 1,389,554; Aug. 30; v. 289; p. 947.
- Johnson, Gustav W., assignor to Chippewa Foundry and Machine Company, Chippewa Falls, Wis. Pump and operating mechanism. No. 1,364,995; Jan. 11; v. 282; p. 227.
- Johnson, Gustave T., Beloit, Wis. Balancing-machine. No. 1,364,993; Jan. 11; v. 282; p. 227.
- Johnson, Gustave T., Chicago, Ill. Balancing-machine. No. 1,364,994; Jan. 11; v. 282; p. 227.
- Johnson, Harry L., assignor to F. E. Ginn, Boston, Mass. Making carton-linings. No. 1,368,633; Feb. 15; v. 283; p. 447.
- Johnson, Henry V., St. Paul, Minn. Safety device for drills. No. 1,377,487; May 10; v. 286; p. 269.
- Johnson, Herbert L., Yarmouth, assignor to G. F. Lowell, Freeport, Me. Fishing-tackle. No. 1,386,061; Aug. 2; v. 289; p. 20.
- Johnson, Howard A., Norfolk, Va. Centrifugal brake. No. 1,393,289; Oct. 11.
- Johnson, Howard A., and F. T. Etheredge, Norfolk, Va. Door-operating mechanism. No. 1,375,219; Apr. 19; v. 285; p. 459.



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- Johnson, Howard F., assignor to The Browning Company, Cleveland, Ohio. Differential brake. No. 1,393,135. Oct. 11.
- Johnson, Irvin W., Cosmopolis, Wash. Taper attachment for sawmill-carriage blocks. No. 1,383,544; July 5; v. 288; p. 59.
- Johnson, Isaac A., Kansas City, Mo. Adjustable child's seat for barber-chairs. No. 1,368,802; Feb. 15; v. 283; p. 480.
- Johnson, J. D., Co. (See Mellon, James I., assignor.)
- Johnson, Jack W., Winnetka, Ill. Carbureter. No. 1,390,790; Sept. 13; v. 290; p. 339.
- Johnson, Jacob T., Atlanta, Ga. Duplex faucet. No. 1,392,167; Sept. 27; v. 290; p. 753.
- Johnson, James, and G. C. Cowles, Flint, Mich. Railway-tie. No. 1,371,171; Mar. 8; v. 284; p. 314.
- Johnson, James G., Chicago, Ill. Garment-press. No. 1,397,635; Nov. 22.
- Johnson, James J., Chicago, Ill. Combined lamp-holder and reflector. No. 1,376,941; May 3; v. 286; p. 107.
- Johnson, James O., Kokomo, Ind. Adjustable socket-wrench. No. 1,370,820; Mar. 8; v. 284; p. 248.
- Johnson, James P., Cleveland Heights, Ohio. Stud-bolt driver. No. 1,373,617; Apr. 5; v. 285; p. 46.
- Johnson, Jay H., Knoxville, Tenn. Gage for laying shingles. No. 1,366,462; Jan. 25; v. 282; p. 596.
- Johnson, Jay M., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill. Coin and ticket fare register. (Reissue.) No. 15,123; June 14; v. 287; p. 351.
- Johnson, Jere, deceased, Morgantown, W. Va.; D. B. Johnson, administratrix. Resonator device for graphophones. No. 1,371,900; Mar. 15; v. 284; p. 519.
- Johnson, Jesse W., New York, N. Y. Album. No. 1,368,803; Feb. 15; v. 283; p. 480.
- Johnson, John, Des Moines, Iowa. Saw-tooth cutter. No. 1,383,722; July 5; v. 288; p. 97.
- Johnson, John A., *et al.* (See Pritchett, Joseph F., assignor.)
- Johnson, John A., Verona, Wyo. Spring-wheel. No. 1,369,814; Mar. 1; v. 284; p. 12.
- Johnson, John A., Walcott, N. D. Closure for hay-fork-track openings. No. 1,375,391; Apr. 19; v. 285; p. 492.
- Johnson, John C., Syracuse, N. Y. Bolt and nut lock. No. 1,380,387; June 7; v. 287; p. 12.
- Johnson, John E., Elgin, Ill. Lathe. No. 1,374,378; Apr. 12; v. 285; p. 234.
- Johnson, John E., and C. H. Oslund, assignors to The O. & J. Machine Company, Worcester, Mass. Label-picking device. No. 1,376,097; Apr. 26; v. 285; p. 659.
- Johnson, John L., Seattle, Wash. Camera. No. 1,368,210; Feb. 8; v. 283; p. 317.
- Johnson, John H. (See Johnson, Lester E., assignor.)
- Johnson, Joseph, Menlo Park, Calif. Game. No. 1,399,864; Dec. 13.
- Johnson, Joseph E., Louisville, Ky. Orthodontic appliance. No. 1,369,665; Feb. 22; v. 283; p. 687.
- Johnson, Joseph W., Newburgh, N. Y. Clamp. No. 1,388,045; Aug. 16; v. 289; p. 536.
- Johnson, Josiah F., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control mechanism. No. 1,399,774; Dec. 13.
- Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling-circuit. No. 1,396,760; Nov. 15.
- Johnson, Kenneth S., Jersey City, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Common-battery substation. No. 1,399,775; Dec. 13.
- Johnson, Knute J., Minneapolis, Minn. Combined operating mechanism for foot-actuators and cut-out valves. No. 1,364,113; Jan. 4; v. 282; p. 13.
- Johnson, Lawrence and H. Brearley, Sheffield, England. Apparatus for testing the hardness of materials. No. 1,384,389; July 12; v. 288; p. 284.
- Johnson, Leonard, Northampton, assignor to O. A. Belger, Newtonville, Mass. Waste-collector for combing-machines. No. 1,369,176; Feb. 22; v. 283; p. 591.
- Johnson, Leonard T., Boston, Mass. Scale. No. 1,369,815; Mar. 1; v. 284; p. 12.
- Johnson, Leonard T., Boston, Mass. Scale. No. 1,375,636; Apr. 19; v. 285; p. 538.
- Johnson, Leonard T., Boston, Mass. Scale. No. 1,401,704; Dec. 27.
- Johnson, Lester E., assignor to J. H. Johnson, Coffeyville, Kans. Explosive-engine manifold. No. 1,392,168; Sept. 27; v. 290; p. 754.
- Johnson, Louis V., Orange, Tex. Aircraft. No. 1,374,150; Apr. 5; v. 285; p. 149.
- Johnson, Louis V., Fort Worth, Tex. Rotary engine. No. 1,401,336; Dec. 27.
- Johnson, Manton E., St. Louis, Mo. Toy cannon. No. 1,364,765; Jan. 4; v. 282; p. 138.
- Johnson, Mark E. (See Johnson, Samuel S. and M. E.)
- Johnson, Mary W. (See Johnson, Frederick I., assignor.)
- Johnson, Maxwell O., Waipio, Hawaii. Fertilizing material and producing same. No. 1,370,117; Mar. 1; v. 284; p. 68.
- Johnson, Merton E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole. No. 1,393,688; Oct. 11.
- Johnson, Merton E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole and making. No. 1,393,787; Oct. 18.
- Johnson, Micajah M. (See Webb, John L., assignor.)
- Johnson, Olaf, Hudson, Wis. Car-seal. No. 1,368,804; Feb. 15; v. 283; p. 480.
- Johnson, Olaf H., Seattle, Wash. Wheel construction. No. 1,390,909; Sept. 13; v. 290; p. 363.
- Johnson, Orlando B., French, assignor of one-half to R. M. McCracken, Boise, Idaho. Cow-tail holder. No. 1,380,211; May 31; v. 286; p. 985.
- Johnson, Orvey, assignor to The Johnson Specialty Company, Madison, Wis. Piston-ring expander and contractor. No. 1,379,021; May 24; v. 286; p. 687.
- Johnson, Oscar B., Indianapolis, Ind. Hinge for windows. No. 1,384,836; July 19; v. 288; p. 458.
- Johnson, Oscar H., and H. F. Webb, assignors to The Mine & Smeiter Supply Company, Denver, Colo. Feeder. No. 1,399,124; Dec. 6.
- Johnson, Peter B., Seattle, Wash. Grease-gun. No. 1,372,292; Mar. 22; v. 284; p. 651.
- Johnson, Peter B., Seattle, Wash. Hydrocarbon-burner. No. 1,381,560; June 14; v. 287; p. 287.
- Johnson, Peter H., and P. A. Kosecki, Kenosha, Wis. Sash-fastener. No. 1,379,823; May 31; v. 286; p. 912.
- Johnson-Randall Co. (See Duquette, William, assignor.)
- Johnson, Raymond. (See Griewe, R. E., and Johnson.)
- Johnson, Robert, Sault Ste. Marie, Ontario, Canada. Internal-combustion engine. No. 1,396,371; Nov. 8.
- Johnson, Robert C., Leicester, England. Teapot, coffee-pot, and like vessel. No. 1,380,066; May 31; v. 286; p. 958.
- Johnson, Robert L., Nashville, Tenn. Electric railway-switch. No. 1,400,439; Dec. 13.
- Johnson, Robert W., Chicago, Ill. Collar-pin. No. 1,372,754; Mar. 29; v. 284; p. 781.
- Johnson, Robert W., Chicago, Ill. Collar-link. No. 1,396,041; Nov. 8.
- Johnson, Roland E., Medford, Mass. Window-lock. No. 1,392,335; Oct. 4.
- Johnson, Rosamond L., Port Orchard, Wash. Vehicle signaling-crane. No. 1,377,488; May 10; v. 286; p. 269.
- Johnson, Rosamond L., Port Orchard, Wash. Muster-check board. No. 1,393,136; Oct. 11.
- Johnson, Ruben E., Bremerton, Wash. Pump. No. 1,369,666; Feb. 22; v. 283; p. 687.
- Johnson Service Co., The. (See Dodge, Parker, assignor.)
- Johnson, Samuel S., and M. E. Harrisburg, Pa. Signal device or indicator. No. 1,381,561; June 14; v. 287; p. 287.
- Johnson, Sarah, executrix. (See Johnson, Sinclair J.)
- Johnson, Sinclair J., deceased, Montclair, N. J.; Sarah Johnson, executrix, assignor of one-half to Walter C. Schultz, Montclair, N. J. Rotary engine. No. 1,364,438; Jan. 4; v. 282; p. 76.
- Johnson Specialty Company, The. (See Johnson, Orvey, assignor.)
- Johnson, Squire J., and G. Wood, Seattle, Wash.; said Wood assignor to said Johnson. Box-shook-bundling machine. No. 1,370,969; Mar. 8; v. 284; p. 276.
- Johnson, Stuart P., Washington, D. C. Grenade-thrower. No. 1,374,854; Apr. 12; v. 285; p. 326.
- Johnson, Stuart P., Washington, D. C. Recoil mechanism. No. 1,379,989; May 31; v. 286; p. 943.
- Johnson, Svan E., Ruxton, Md. Internal-combustion engine. No. 1,371,686; Mar. 15; v. 284; p. 479.
- Johnson, Theodore, Erie, Pa. Release-hook. No. 1,370,589; Mar. 8; v. 284; p. 203.
- Johnson, Theodore W., Annapolis, Md. Combined drawing-board and instrument-case. No. 1,369,439; Feb. 22; v. 283; p. 642.
- Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. One-piece-stock takedown firearm. No. 1,370,118; Mar. 1; v. 284; p. 68.
- Johnson, Thomas C., assignor to Winchester Repeating Arms Co., New Haven, Conn. Takedown gun. No. 1,373,888; Apr. 5; v. 285; p. 99.
- Johnson, Thomas W., Denver, Colo. Cuspidor. No. 1,397,636; Nov. 22.
- Johnson, Tomlinson F., Jr., Atlanta, Ga. Testing and locating defective multiple-part pin-type insulators. (Reissue.) No. 15,025; Jan. 11; v. 282; p. 352.
- Johnson, Tomlinson F., Jr., Atlanta, Ga. Locating faulty suspension-insulators on live-wire transmission-lines. No. 1,366,078; Jan. 18; v. 282; p. 477.
- Johnson, Tomlinson F., Jr., Atlanta, Ga. Stick for handling high-voltage line conductors. No. 1,370,651; Mar. 8; v. 284; p. 215.
- Johnson, Tomlinson F., Jr., Atlanta, Ga. Insulator-changer. No. 1,394,020; Oct. 18.
- Johnson, Ulysses E. G., Pittsfield, Mass. Valve-remover. No. 1,378,463; May 17; v. 286; p. 507.
- Johnson, Walter H., Boston, assignor to C. I. Campbell, Quincy, Mass. Signaling device. No. 1,378,237; May 17; v. 286; p. 464.
- Johnson, Werner, assignor to General Electric Company, Lynn, Mass. Speed-governor. No. 1,371,767; Mar. 15; v. 284; p. 493.
- Johnson, Wesley, Pittsburgh, Pa. Trolley. No. 1,373,007; Mar. 29; v. 284; p. 832.
- Johnson, Wesley J., Chicago, Ill. Duplex grating for pipeless furnaces. No. 1,394,260; Sept. 18.
- Johnson, Wiley B. (See Mitchell, John R., assignor.)
- Johnson, William A., Fairmont, W. Va. Clothesline-clamp. No. 1,368,805; Feb. 15; v. 283; p. 481.



*Alphabetical list of patentees—Continued.*

- Johnson, William B., Elkhart, Ind., assignor to Foster-Johnson Reamer Company. Adjustable reamer. No. 1,375,460; Apr. 19; v. 285; p. 505.
- Johnson, William C., New Haven, Conn. Pencil-sharpener. No. 1,393,378; Oct. 11.
- Johnson, William C., Memphis, Tenn. Treating cotton fibers and products. No. 1,396,960; Nov. 15.
- Johnson, William E., St. Joseph, Mo. Vulcanizer. No. 1,392,645; Oct. 4.
- Johnson, William F., Baltimore, Md. Self-locking retaining-nut. No. 1,400,879; Dec. 20.
- Johnson, William H., Arlington, N. J. Garter. No. 1,386,935; Aug. 9; v. 289; p. 265.
- Johnson, William H., Brandon, Vt. Cylinder-grinding machine. No. 1,399,213; Dec. 6.
- Johnson, William R. (See Johnston, Charles H. and W. R.)
- Johnston, Aaron J., Pysht, Wash. Fair-leader. No. 1,392,687; Oct. 4.
- Johnston, Albert F., Toledo, assignor to one-half to E. Brown, Perrysburg, Ohio. Edge-beveling machine. No. 1,368,263; Feb. 15; v. 283; p. 375.
- Johnston, Albert W. (See Stevenson, Albert F., assignor.)
- Johnston, Allen, and C. M. Kramer, assignors to Johnston Pressed Gear Company, Ottumwa, Iowa. Wheel for lawn-mowers and the like. No. 1,382,089; June 21; v. 287; p. 446.
- Johnston, Andrew L., Jr., Richmond, Va. Safety-razor. No. 1,398,193; Nov. 22.
- Johnston, Andrew L., Jr., Richmond, Va., assignor to P. R. Moses, New York, N. Y. Antiskid tire-chain. No. 1,378,821; May 17; v. 286; p. 576.
- Johnston, Bess E., Chicago, Ill. Medical apparatus. No. 1,395,117; Oct. 25.
- Johnston, C. F. and G. G. Rees, San Francisco, Calif. Combined washer and lock-nut. No. 1,384,019; July 5; v. 288; p. 158.
- Johnston, Charles E., and A. J. Jorgenson, Vancouver, British Columbia, Canada. Heat producing and distributing element. No. 1,383,211; June 28; v. 287; p. 713.
- Johnston, Edward A., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Traction-wheel. No. 1,395,422; Nov. 1.
- Johnston, Francis M., Hoffman, Okla. Trolley apparatus No. 1,401,082; Dec. 20.
- Johnston, Frank B., Roselle Park, N. J., assignor to American Safety Device Co., New York, N. Y. Hoisting attachment for scaffolds. No. 1,388,262; Aug. 23; v. 289; p. 636.
- Johnston, Frank E. (See Miller, L. P., and Johnston.)
- Johnston, Genevieve. (See Johnston, Horace G., assignor.)
- Johnston, George, Manchester, England. Apparatus for pulverizing ore and the like. No. 1,396,711; Nov. 8.
- Johnston, George, Manchester, England. Crushing. No. 1,396,712; Nov. 8.
- Johnston, George C., Pittsburgh, Pa., and L. S. Uphoff Schenectady, N. Y. Guard for X-ray tubes. No. 1,400,607; Dec. 20.
- Johnston, Geo. S., Company. (See Johnston, George S., assignor.)
- Johnston, George S., assignor to Geo. S. Johnston Company, Evanston, Ill. Goggles. No. 1,392,832; Oct. 4.
- Johnston, George W., St. Joseph, Mo., assignor, by mesne assignments, of one-half to E. E. Peel. Liquid measuring and recording device. No. 1,365,324; Jan. 11; v. 282; p. 290.
- Johnston, Gertrude A., Chicago, Ill. Safety apparatus for high chairs. No. 1,376,625; May 3; v. 286; p. 47.
- Johnston, Gustave V., Chicago, Ill., assignor to American Metal Molding Company. Method and apparatus for butt-welding thin-gage tubing. No. 1,388,434; Aug. 23; v. 289; p. 672.
- Johnston, Harry M., McKeesport, assignor to National Tube Company, Pittsburgh, Pa. Collapsible tap. No. 1,381,841; June 14; v. 287; p. 340.
- Johnston, Harvey H. (See Candee, A. H., and Johnston.)
- Johnston, Harvey H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Register. No. 1,387,492; Aug. 16; v. 289; p. 427.
- Johnston, Horace G., assignor to G. Johnston, Corsicana, Tex. Guide for drive-chains. No. 1,378,795; May 17; v. 286; p. 571.
- Johnston, Howard H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,365,325; Jan. 11; v. 282; p. 291.
- Johnston, Howard H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,373,077; Mar. 29; v. 284; p. 845.
- Johnston, Howard H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,381,312; June 14; v. 287; p. 240.
- Johnston, Isaac N., Los Angeles, Calif. Pump. No. 1,369,527; Feb. 22; v. 283; p. 659.
- Johnston, Isaac N., Los Angeles, Calif. Deep-well pump. No. 1,370,451; Mar. 1; v. 284; p. 132.
- Johnston, James A., Seattle, Wash., assignor of twenty per cent. to T. J. Claffey and five per cent. to N. Ambrose, Chicago, Ill. Toilet-fixture connection. No. 1,389,004; Aug. 30; v. 289; p. 838.
- Johnston, James B., Philadelphia, Pa. Ice-machine. No. 1,386,625; Aug. 9; v. 289; p. 202.
- Johnston, James S., Utica, N. Y. Gas-delayer for fire-arms. No. 1,387,889; Aug. 16; v. 289; p. 506.
- Johnston, James W., Salt Lake City, Utah. Electric iron. No. 1,388,719; Aug. 23; v. 289; p. 726.
- Johnston, John O., Newark, N. J. Guard for wheels. No. 1,375,392; Apr. 19; v. 285; p. 492.
- Johnston, John O., Newark, N. J. Wheel. No. 1,386,784; Aug. 9; v. 289; p. 234.
- Johnston, John O., assignor to The J. J. Disc-Wheel Corporation, Newark, N. J. Guard for wheels. No. 1,373,889; Apr. 5; v. 285; p. 99.
- Johnston, Millard L., Utica, N. Y. Gun-barrel-muzzle steadier. No. 1,390,447; Sept. 13; v. 290; p. 269.
- Johnston, Milton E., Utica, N. Y. Dustproof device for firearms. No. 1,365,592; Jan. 11; v. 282; p. 343.
- Johnston Pressed Gear Company. (See Johnston, A., and Kramer, assignors.)
- Johnston, R. D., Jr. (See Legg, Andrew C., assignor.)
- Johnston, Richard A., assignor to Barron G. Collier, Incorporated, New York, N. Y. Frame for advertising-cards. No. 1,382,646; June 28; v. 287; p. 606.
- Johnston, Richard A., assignor to Barron G. Collier, Incorporated, New York, N. Y. Billboard. No. 1,382,647; June 28; v. 287; p. 606.
- Johnston, Robert T., Scotch Plains, N. J., assignor to R. Hoe and Co., New York, N. Y. Method and apparatus for plate cooling and finishing. No. 1,389,361; Aug. 30; v. 289; p. 910.
- Johnston, Robert T., Scotch Plains, N. J., assignor to R. Hoe and Co., New York, N. Y. Plate finishing and cooling machine. No. 1,389,761; Sept. 6; v. 290; p. 40.
- Johnston, Roy B. (See Lindgren, A. C., and Johnston.)
- Johnston, Salathiel, *et al.* (See Johnston, Samuel, assignor.)
- Johnston, Samuel, deceased; A. E. Near, executor, Port Colborne, Ontario, Canada, assignor, by direct and mesne assignments, of one-half to L. G. Brown, Niagara Falls, N. Y., and one-half to S. Johnston, Bertie township, Ontario, Canada. Auto-jack. No. 1,383,545; July 5; v. 288; p. 59.
- Johnston, Samuel C., Lancaster, S. C., assignor to Draper Corporation, Hopedale, Mass. Shuttle. No. 1,366,807; Jan. 25; v. 282; p. 664.
- Johnston, William C., Milwaukee, Wis. Vacuum-cleaner. No. 1,392,874; Oct. 4.
- Johnston, William F., Richmond, Va. Scythe-fastener. No. 1,365,833; Jan. 18; v. 282; p. 429.
- Johnston, William G., assignor to T. O'Leary, Philadelphia, Pa. Explosive-engine. No. 1,376,700; May 3; v. 286; p. 60.
- Johnston, William H., Lorain, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Dumping-trough-cover-operating mechanism. No. 1,398,863; Nov. 29.
- Johnston, William R., assignor to Wm. R. Johnston Mfg. Co., Chicago, Ill. Curtain-window for vehicles. No. 1,400,680; Dec. 20.
- Johnston, Wm. R., Mfg. Co. (See Johnston, William R., assignor.)
- Johnstone, Arthur, Ottumwa, Iowa. Coffee-steep. No. 1,400,749; Dec. 20.
- Johnstone, George A., Chicago, Ill. High-frequency motor-alternator. No. 1,375,393; Apr. 19; v. 285; p. 492.
- Johnstone, James O., East Chicago, Ind. Treating lead alloys. No. 1,389,511; Aug. 30; v. 289; p. 939.
- Johnstone, S., & Company. (See Thebaud, John E., assignor.)
- Johnsyn, Joseph, Dorchester, Mass. Folding bed. No. 1,392,169; Sept. 27; v. 290; p. 754.
- Jokisch, John, Detroit, Mich. Vehicle-wheel. No. 1,371,030; Mar. 8; v. 284; p. 288.
- Jolliff, Samuel, Vancouver, British Columbia, Canada. Garden-hose spraying-nozzle support. No. 1,367,780; Feb. 8; v. 283; p. 235.
- Jolidon, Charles J., Hartford, Conn. Firearm. No. 1,382,197; June 21; v. 287; p. 466.
- Jolivet, Gustave. (See Pereire, G., and Jolivet.)
- Jolliffe, Edward, Chicago, Ill. Wood-grainer. No. 1,384,959; July 19; v. 288; p. 483.
- Jolls, Le Roy E., Elizabeth, N. J., assignor to Packard Motor Car Company, Detroit, Mich. Machine-tool. No. 1,397,006; Nov. 15.
- Jolly, Benjamin R., deceased, Raleigh, N. C., The Raleigh Savings Bank and Trust Company, executor. Insect-catcher. No. 1,377,201; May 10; v. 286; p. 212.
- Jonas, Otto W., Chicago, Ill. Stone-setting tool. No. 1,397,124; Nov. 15.
- Jonas, Joseph, Brooklyn, N. Y. Hat-stretching machine. No. 1,371,247; Mar. 15; v. 284; p. 392.
- Jones, Adrian S., Redwood City, Calif. Canning apparatus. No. 1,364,379; Jan. 4; v. 282; p. 64.
- Jones, Ainsley L., 2d, Mariners Harbor, N. Y. Block system for electric-railway trains. No. 1,391,322; Sept. 20; v. 290; p. 510.
- Jones Ainsley L., 2d, Mariners Harbor, N. Y. Stop device for electric-railway trains. No. 1,391,323; Sept. 20; v. 290; p. 510.
- Jones, Alaska O., Kokomo, Ind. Rotary harrow. No. 1,377,586; May 10; v. 286; p. 286.
- Jones, Albert. (See Bihn, G. F., and Jones.)
- Jones, Albert F., Salem, Mass. Counter-forming machine. No. 1,381,126; June 14; v. 287; p. 207.
- Jones, Aldred J., Detroit, Mich. Automobile caution-signal. No. 1,391,120; Sept. 20; v. 290; p. 468.



*Alphabetical list of patentees—Continued.*

- Jones, Ap T., assignor to American Steel Foundries, Chicago, Ill. Anchor. No. 1,373,740; Apr. 5; v. 285; p. 69.
- Jones, Ap T., assignor to American Steel Foundries, Chicago, Ill. Anchor arrangement. No. 1,373,741; Apr. 5; v. 285; p. 69.
- Jones, Ap T., assignor to American Steel Foundries, Chicago, Ill. Anchor mechanism. No. 1,373,742; Apr. 5; v. 285; p. 70.
- Jones, Archie, Boonville, Ind. Coal-scuttle. No. 1,368,158; Feb. 8; v. 283; p. 306.
- Jones, Arthur L., administrator. (See Smith, Christian P.)
- Jones, B. O., *et al.* (See Sherwood, Charles F., assignor.)
- Jones, Benjamin H., assignor to Smith & Davis Manufacturing Company, St. Louis, Mo. Bedstead. No. 1,376,626; May 3; v. 286; p. 4.
- Jones, Benjamin H., assignor to Smith & Davis Manufacturing Co., St. Louis, Mo. Corner-fastening for beds. No. 1,385,173; July 19; v. 288; p. 528.
- Jones, Benjamin H., assignor to Smith & Davis Manufacturing Co., St. Louis, Mo. Spring-mattress and support therefor. No. 1,385,174; July 19; v. 288; p. 528.
- Jones, Bertha W., Dickinson, N. D. Window-screen. No. 1,370,500; Mar. 1; v. 284; p. 141.
- Jones, Bevan, New York, N. Y. Louver-blind. No. 1,365,919; Jan. 18; v. 282; p. 446.
- Jones, Carl A., Minneapolis, Minn. Hanger for storm-windows and the like. No. 1,369,346; Feb. 22; v. 283; p. 606.
- Jones, Charles A., Gloucester, England. Lifting-jack. No. 1,384,322; July 12; v. 283; p. 269.
- Jones, Charles B., above Cynwyd, Pa. Resistance-switch. No. 1,395,579; Nov. 1.
- Jones, Charles E., New York, N. Y. Telephone attachment. No. 1,388,720; Aug. 23; v. 289; p. 727.
- Jones, Charles J., Marshall, Tex. Railway-tie. No. 1,383,954; July 5; v. 288; p. 144.
- Jones, Claude F., Dill, Okla. Fire-extinguisher. No. 1,368,159; Feb. 8; v. 283; p. 306.
- Jones, Clyde M., Sacramento, Calif. Weather-strip. No. 1,401,409; Dec. 27.
- Jones, Coulter W. (See Barstow, E. O., and Jones.)
- Jones, Coulter W., assignor to The Dow Chemical Company, Midland, Mich. Absorbing halogens. No. 1,386,117; Aug. 2; v. 289; p. 31.
- Jones, Coulter W., assignor to The Dow Chemical Company, Midland, Mich. Making hydrobromic acid and apparatus therefor. No. 1,398,596; Nov. 29.
- Jones, David W., Chicago, Ill. Steering-gear. No. 1,365,326; Jan. 11; v. 282; p. 291.
- Jones, David W., Chicago, Ill. Steering-gear. No. 1,392,646; Oct. 4.
- Jones, De Witt O. (See Baum, E. C., and Jones.)
- Jones, Ed. (See Jameson, E. E., and Kameron, assignors.)
- Jones, Edward F., assignor of one-half to C. Cazell, San Antonio, Tex. Locking device for automobiles. No. 1,394,021; Oct. 18.
- Jones, Edward S., assignor of one-tenth to F. A. Hixon, one-tenth to G. Kilborn, and one-tenth to G. S. Bournous, Mobile, Ala. Automatic life-saving fender for automobiles. No. 1,398,434; Nov. 29.
- Jones, Edward T., New Orleans, La. Underground or underwater antenna system. No. 1,372,658; Mar. 22; v. 284; p. 721.
- Jones, Emerald E., assignor to Surtly Guard Company, Chicago, Ill. Belt-shifter. No. 1,399,388; Dec. 6.
- Jones, Eli, Luverne, Minn. Thread cutting and tapping machine. No. 1,392,170; Sept. 27; v. 290; p. 574.
- Jones, Ernest H., Canonbury, London, England. Welding and brazing. No. 1,387,157; Aug. 9; v. 289; p. 309.
- Jones, Eugene A., Los Angeles, Calif. Collapsible rim for wheels. No. 1,364,935; Jan. 11; v. 282; p. 215.
- Jones, Eugene A., Los Angeles, Calif. Collapsible rim for wheels. No. 1,374,574; Apr. 12; v. 285; p. 273.
- Jones, Eugene A., Los Angeles, Calif. Spark-plug terminal. No. 1,382,090; June 21; v. 287; p. 440.
- Jones, Francis J. S., Porthcawl, Wales. Overload-release hook for steam and motor tractors, hoists, and cranes. No. 1,368,559; Feb. 15; v. 283; p. 433.
- Jones, Frank, Salt Lake City, Utah. Oil-shale retort. No. 1,373,890; Apr. 5; v. 285; p. 99.
- Jones, Frank B., London, and E. Bury, Yorkshire, England, assignors to Minerals Separation North American Corporation, New York, N. Y. Purifying liquors by froth flotation. No. 1,388,863; Aug. 30; v. 289; p. 811.
- Jones, Frank E., San Diego, Calif., assignor to D. B. Red, Hattiesburg, Miss. Self-serving store. No. 1,397,379; Nov. 15.
- Jones, Fred H., Zanesville, Ohio. Churn. No. 1,384,665; July 12; v. 288; p. 342.
- Jones, Frederick C., Camden, N. J., assignor to Victor Talking Machine Company. Apparatus for and process of making styli for use in connection with the reproduction of sound from talking-machine records. No. 1,368,936; Feb. 15; v. 283; p. 506.
- Jones, George C., Oakland, Calif. Cooker. No. 1,371,687; Mar. 15; v. 284; p. 479.
- Jones, George C., Brownwood, Tex. Automobile-spring. No. 1,383,723; July 5; v. 288; p. 97.
- Jones, George D., Winterhaven, Fla. Attachment for fishing-reels. No. 1,395,118; Oct. 25.
- Jones, George E., Bundarra, New South Wales, Australia. Chart for use in teaching the art of reading. No. 1,392,014; Sept. 27; v. 290; p. 724.
- Jones, George E., Jr. (See Sanford, H. W., Griffith, and Jones.)
- Jones, Harry, Suffern, N. Y., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del. Molding brake-shoe inserts. No. 1,375,702; Apr. 26; v. 285; p. 584.
- Jones, Harry, Suffern, N. Y., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Railway-tie. No. 1,376,549; May 3; v. 286; p. 32.
- Jones, Harry A., and E. W. Struve, Parsons, Kans. Adjustable-chain oil-bearing. No. 1,385,135; July 19; v. 288; p. 520.
- Jones, Harry A., and E. W. Struve, Parsons, Kans. Saw-grinding jig. No. 1,385,175; July 19; v. 288; p. 528.
- Jones, Harry B., assignor to Permanent Products Company, Chicago, Ill. Ventilated silo-stave. No. 1,390,994; Sept. 20; v. 290; p. 443.
- Jones, Henry C., Lemon Cove, Calif. Locking device for index-cards. No. 1,367,550; Feb. 8; v. 283; p. 190.
- Jones, Henry D., assignor to The Buffalo-Springfield Roller Company, Springfield, Ohio. Gage-wheel for scarifying devices. No. 1,388,648; Aug. 23; v. 289; p. 713.
- Jones, Henry D., assignor to The Buffalo-Springfield Roller Company, Springfield, Ohio. Support for scarifying devices. No. 1,388,649; Aug. 23; v. 289; p. 712.
- Jones, Henry P., Buffalo, N. Y. Drawing-pad device. No. 1,376,098; Apr. 26; v. 285; p. 659.
- Jones, Herbert C., Tottenville, N. Y., assignor to The Franklin Baker Company, Philadelphia, Pa. Coconut-shell-cracking machine. No. 1,372,293; Mar. 22; v. 284; p. 651.
- Jones, Herbert S., assignor to Packard Motor Car Company, Detroit, Mich. Slotting-machine. No. 1,389,308; Aug. 30; v. 289; p. 899.
- Jones, Homer W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Nut-equipping machine. No. 1,369,894; Mar. 1; v. 284; p. 27.
- Jones, Homer W., Lakewood, Ohio, assignor to National Carbon Company, Inc. Terminal connection. No. 1,376,627; May 3; v. 286; p. 47.
- Jones, Homer W., Cleveland, Ohio, assignor to National Carbon Company, Inc. Dry-cell can. No. 1,387,928; Aug. 16; v. 289; p. 514.
- Jones, Horace R., Long Prairie, Minn. Lifting-jack. No. 1,369,282; Feb. 22; v. 283; p. 612.
- Jones, Howard N., assignor to Universal Safety Ash Tray Company, Inc., Providence, R. I. Cigarette-extinguishing device. No. 1,372,143; Mar. 22; v. 284; p. 622.
- Jones, Howard A. (See Adams, Charles S., assignor.)
- Jones, John C., Brookline, Mass. Vehicle. No. 1,399,348; Dec. 6.
- Jones, Hugh E., Oshkosh, Wis. Repair-link. No. 1,385,554; July 26; v. 288; p. 681.
- Jones, Hugh S., New York Mills, and A. P. Cullinan, assignors to Utica Knitting Company, Utica, N. Y. Stop-motion device. No. 1,377,587; May 10; v. 286; p. 286.
- Jones, Hugh S., Hampstead, London, England. Treeing device for boots and shoes. No. 1,388,046; Aug. 16; v. 289; p. 537.
- Jones, Ira W., Lebanon, Me. Rack-cleaning device. No. 1,392,647; Oct. 4.
- Jones, Isaiah. (See Jones, Lawrence and I.)
- Jones, James E. (See Newdick, Norton A., assignor.)
- Jones, James E., Richmond, Ind. Molding-machine. No. 1,366,692; Jan. 25; v. 282; p. 641.
- Jones, James E. (See Demorest, Edmund L., assignor.)
- Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Wrapped article. No. 1,377,156; May 3; v. 286; p. 148.
- Jones, James I., assignor of one-half to R. R. Browne, Washington, D. C. Concrete-mold. No. 1,397,253; Nov. 15.
- Jones, James M. (See Farmer, H. F., and Jones.)
- Jones, John, Minneapolis, Minn. Roller-mill. No. 1,366,463; Jan. 25; v. 282; p. 596.
- Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Package of X-ray film. No. 1,395,918; Nov. 1.
- Jones, John O., Mitchell, S. D. Valve-gear. No. 1,371,424; Mar. 15; v. 284; p. 427.
- Jones, John H., Boundbrook, N. J. Composition of edible fats. No. 1,381,468; June 14; v. 287; p. 269.
- Jones, John H., Boundbrook, N. J. Treating oils and fats. No. 1,381,469; June 14; v. 287; p. 269.
- Jones, John R., Somerville, Mass. Galley-lock. No. 1,366,663; Jan. 25; v. 282; p. 636.
- Jones, John T., assignor to T. J. Howells, Pittsburgh, Pa. Producing ferrosilicon. No. 1,379,022; May 24; v. 286; p. 687.
- Jones, John T., assignor to T. J. Howells, Pittsburgh, Pa. Metallurgical process. No. 1,379,023; May 24; v. 286; p. 637.
- Jones, John T., assignor to T. J. Howells, Pittsburgh, Pa. Reducing iron from the ore. No. 1,379,024; May 24; v. 286; p. 687.
- Jones, John T. (See Bozeman, J. W., and Jones.)
- Jones, John W., Haddonfield, N. J. Sash-holding device. No. 1,373,964; Apr. 5; v. 285; p. 115.
- Jones, John W., El Reno, Okla. Protecting documents. No. 1,374,208; Apr. 12; v. 285; p. 201.



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- Jones, John W., Cannock, England, assignor to Haslam & Stretton Limited, Cardiff, Wales. Miner's electric safety-lamp. No. 1,373,820; Apr. 5; v. 285; p. 86.
- Jones, Jonathan S., Oak Park, Ill. Mechanical toy. No. 1,386,507; Aug. 2; v. 289; p. 106.
- Jones, Joseph F., La Grange, Ill. Velocipede. No. 1,390,294; Sept. 13; v. 290; p. 239.
- Jones, Joseph H., Winthrop, assignor of one-half to R. Burgess, Newton Center, Mass. Cap-spinning frame. No. 1,385,078; July 19; v. 288; p. 508.
- Jones, Joseph H., Winthrop, assignor of one-half to R. Burgess, Newton Center, Mass. Cap-spinning frame. No. 1,401,705; Dec. 27.
- Jones, Joseph W., New York, N. Y. Winding device for spring-motors. No. 1,394,907; Oct. 25.
- Jones, Judson C., Independence, Kans. Oil-well reamer. No. 1,371,425; Mar. 15; v. 284; p. 428.
- Jones, Juell M. (See Neil, C. B., and Boggs, assignors.)
- Jones, Lawrence R., Peoria, Ill. Valve-lock. No. 1,395,678; Nov. 1.
- Jones Lamson Machine Company. (See Flanders, Ralph E., assignor.)
- Jones & Laughlin Steel Company. (See Free, John W., assignor.)
- Jones, Lawrence and I., Granger, Utah. Valve. No. 1,379,025; May 24; v. 286; p. 687.
- Jones, Leander J., High Point, N. C. Refrigerator. No. 1,369,440; Feb. 22; v. 283; p. 643.
- Jones, Lemuel I., Bowling Green, Ohio. Pneumatic-tire protector. No. 1,371,097; Mar. 8; v. 284; p. 300.
- Jones, Lemuel, Aylesbury, England. Toothed gearing. No. 1,383,402; July 5; v. 288; p. 30.
- Jones, Lemuel R., Los Angeles, Calif. Envelop. No. 1,384,837; July 19; v. 288; p. 458.
- Jones, Leo D., Philadelphia, assignor to The Sharples Specialty Company, West Chester, Pa. Method and mechanism for centrifugally separating substances. No. 1,373,743; Apr. 5; v. 285; p. 70.
- Jones, Llewellyn, Muncie, Ind., and C. Westlake, Jr., Youngstown, Ohio. Material for forming brick, tile, and the like. No. 1,390,038; Sept. 6; v. 290; p. 97.
- Jones, Llewellyn R., assignor of one-fourth to C. A. Badgley, Belleville, Ontario, Canada. Wringer and clamp therefor. No. 1,373,965; Apr. 5; v. 285; p. 115.
- Jones, Louis W., Cleveland, Ohio. Pipe-bending device. No. 1,378,796; May 17; v. 286; p. 571.
- Jones, Louis W., Los Angeles, Calif. Melting-pot. No. 1,387,780; Aug. 16; v. 289; p. 486.
- Jones, Mariana T., Boston, Mass. Mattress-holder. No. 1,371,098; Mar. 8; v. 284; p. 300.
- Jones, Maurice F., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,384,469; July 12; v. 288; p. 300.
- Jones, Maurice F., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic train-stop system. No. 1,396,847; Nov. 15.
- Jones, Merl W., New Lyme, Ohio. Dispensing-measure for liquids. No. 1,383,122; June 28; v. 287; p. 696.
- Jones, Montfort, *et al.* (See McGehee, Ira E., assignor.)
- Jones, Myron G., Mauricetown, N. J. Culling-table for oysters. No. 1,377,689; May 10; v. 286; p. 306.
- Jones, Oakey E., Los Angeles, Calif. Loose-leaf binder. No. 1,399,016; Dec. 6.
- Jones, Oceola, Houston, Tex. Pump. No. 1,381,562; June 14; v. 287; p. 287.
- Jones, Omar G., *et al.* (See Threet, Preston E., assignor.)
- Jones, Orton R., Monrovia, Calif. Check-protector. No. 1,390,620; Sept. 13; v. 290; p. 305.
- Jones, Orville K., *et al.* (See Schwybold, Ray W., assignor.)
- Jones, Oscar T., Silver City, Miss. Stalk puller and grinder. No. 1,379,571; May 24; v. 286; p. 790.
- Jones, Owen H., Hartford, Conn. Ball-cock. No. 1,394,022; Oct. 18.
- Jones, Palmer J., Port Washington, N. Y. Educational apparatus. No. 1,392,578; Oct. 4.
- Jones, Phillip D., assignor of one-half to C. Van Hoose, Los Angeles, Calif. Restaurant-fixture. No. 1,399,125; Dec. 6.
- Jones, Philip W., Newark, Ohio. Method and machine for producing metallic wedges. No. 1,396,042; Nov. 8.
- Jones, Ralph E., U. S. Army. Electric bulletin. No. 1,390,039; Sept. 6; v. 290; p. 97.
- Jones, Raymond H., Marysville, Calif. Seal-lock. No. 1,397,587; Nov. 22.
- Jones, Reece, Tulsa, Okla. Inner tube for tires. No. 1,389,362; Aug. 30; v. 289; p. 910.
- Jones, Reginald M., Toronto, Ontario, Canada. Battery-cell cover. No. 1,372,435; Mar. 22; v. 284; p. 678.
- Jones, Richard E., and T. P. A. Von Thien, assignors to Robert Gair Company, Brooklyn, N. Y. Stamping attachment for carton-setting-up machines. No. 1,383,636; July 5; v. 288; p. 78.
- Jones, Robert H., Randolph, Nebr. Wrench. No. 1,383,123; June 28; v. 287; p. 696.
- Jones, Robert P., Port Arthur, Tex. Oil-trap. No. 1,397,891; Nov. 22.
- Jones, Robert P., Port Arthur, Tex. Oil-trap. No. 1,397,892; Nov. 22.
- Jones, Robert R., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Removing tires from rims. No. 1,385,079; July 19; v. 288; p. 508.
- Jones, Robert W., Wilkes-Barre, Pa. Retaining means. No. 1,394,177; Oct. 18.
- Jones, Roy C., Chicago, Ill. Locking hair-fastener. No. 1,385,349; July 19; v. 288; p. 562.
- Jones, Russel, Pontiac, Mich. Rail-engaging brake. No. 1,388,047; Aug. 16; v. 289; p. 537.
- Jones, Samuel M., and I. O. Harlow, assignor to Arnold Print Works, North Adams, Mass. Mercerization. No. 1,392,833; Oct. 4.
- Jones, Sidney P., and D. P. Wallace, Waco, Tex. Hair-clipper. No. 1,375,966; Apr. 26; v. 285; p. 634.
- Jones, Thomas M., Chateaugay, N. Y. Agricultural implement. No. 1,400,073; Dec. 13.
- Jordan, John E., Seattle, Wash. Speed control device for motor-vehicles. No. 1,400,608; Dec. 20.
- Jones, Stine L., Baton Rouge, La. Railway-crossing gate. No. 1,396,635; Nov. 8.
- Jones, Tom C. (See Parsons, R. J., and Jones.)
- Jones, Thomas G., Philadelphia, Pa. Valve. No. 1,397,867; Nov. 22.
- Jones, Thomas J., Jersey City, N. J. Automatic tension-controlling mechanism. No. 1,395,830; Nov. 1.
- Jones, Truman W., Coatesville, Pa. Dental nerve-broach. No. 1,369,112; Feb. 22; v. 283; p. 580.
- Jones, Walter, Stourbridge, England. Purification of sewage and analogous liquids. (Reissue.) No. 15,140; July 5; v. 288; p. 161.
- Jones, Walter A., Columbus, Ohio. Cooling device for glass-drawing apparatus. No. 1,396,216; Nov. 8.
- Jones, Walter L., Dallas, Tex. Perpetual calendar. No. 1,367,053; Feb. 1; v. 283; p. 34.
- Jones, Whitney B., Newark, N. J., assignor to Butterworth-Judson Corporation, New York, N. Y. Making nitro-diazo compounds. No. 1,394,536; Oct. 25.
- Jones, William J., Gregory, S. D. Resistance appendage for tractor-wheels. No. 1,384,068; July 12; v. 288; p. 217.
- Jones, William M., Jr., Rochester, N. Y. Tire making and repairing device. No. 1,396,217; Nov. 8.
- Jones, William R., Marlin, Tex. Unloading device. No. 1,392,419; Oct. 4.
- Jonezis, Louis, Joliet, Ill. Ship-retarding device. No. 1,396,580; Nov. 1.
- Jonor, Jeter, New Britain, and J. Tomczewski, Newton, Conn. Safety device for presses. No. 1,371,426; Mar. 15; v. 284; p. 428.
- Jons, Detlef, Jr., Spangle, Wash. Conveyer. No. 1,369,528; Feb. 22; v. 283; p. 660.
- Joplin, Wayman C. (See Rodgers, Jesse R., assignor.)
- Jordahn, Gus, Palm Beach, Fla. Device for use in learning to swim. No. 1,368,937; Feb. 15; v. 283; p. 506.
- Jordan, Andrew P., Winters, Tex. Maize-header. No. 1,378,679; May 17; v. 286; p. 549.
- Jordan, Augustus T., London, England. Talking-machine. No. 1,390,910; Sept. 13; v. 290; p. 364.
- Jordan, Burton S., assignor to J. E. Porter Company, Ottawa, Ill. Door-hanger. No. 1,384,763; July 19; v. 288; p. 443.
- Jordan Carburetor Company. (See Jordan, George D., assignor.)
- Jordan, Charles H., San Antonio, Tex. Hanger for car-doors. No. 1,374,302; Apr. 12; v. 285; p. 219.
- Jordan, Edith M., *et al.*, executors. (See Fahnestock, Ernest B.)
- Jordan, Fred A. (See Swart, W. G., Jordan, Davis, and Counsellman.)
- Jordan, George D., Chevy Chase, D. C., assignor to Jordan Carburetor Company, Wilmington, Del. Carburetor. No. 1,381,842; June 14; v. 287; p. 340.
- Jordan, J. Eugene. (See Crawford, Edgar J., assignor.)
- Jordan, Harry H. (See Charlton, Robert W., assignor.)
- Jordan, Herman H., Los Angeles, Calif. Tool-box. No. 1,383,259; June 28; v. 287; p. 722.
- Jordan, Hovey, Burlington, Vt. Brush. No. 1,364,996; Jan. 11; v. 282; p. 228.
- Jordan, James W., Zach, Tenn. Railway-tile. No. 1,367,265; Feb. 1; v. 283; p. 76.
- Jordan, John J. (See Carpenter, William J., assignor.)
- Jordan, John J., Goldfield, Nev. Locking mechanism for motor-vehicles. No. 1,370,970; Mar. 8; v. 284; p. 276.
- Jordan, O. F., Company. (See Bressler, Robert E., assignor.)
- Jordan, Paul R., Indianapolis, Ind. Ventilator apparatus. No. 1,394,735; Oct. 25.
- Jordan, Perry L., Washington, Iowa. Life-saving means for aeroplanes and other airships. No. 1,383,124; June 28; v. 287; p. 296.
- Jordan, Robert E., assignor to The Packers Machinery & Equipment Co., Chicago, Ill. Dehairing-machine. No. 1,388,572; Aug. 23; v. 289; p. 698.
- Jordan, Robert L., Chicago, Ill. Interlocking brake-shoe. No. 1,382,785; June 28; v. 287; p. 633.
- Jordan, Ruric W., Holderness, N. H. Aeroplane. No. 1,369,746; Feb. 22; v. 283; p. 703.
- Jordan, Thomas A., Arkansas City, Kans. Automobile-wheel. No. 1,367,745; Feb. 8; v. 283; p. 228.
- Jordan, Thomas E., Malden, Mass. Swing. No. 1,369,747; Feb. 22; v. 283; p. 703.
- Jordan, Virgil, and J. T. Holmes, Louisville, Ky. Gymnastic apparatus. No. 1,401,476; Dec. 27.
- Jordan, Walter L. (See Krieger, A. H., and Jordan.)
- Jordan, Walter L., Glendale, assignor to Celite Products Company, Los Angeles, Calif. Reclaiming used lubricating-oils. No. 1,393,223; Oct. 11.



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- Jørgensen, Aage H., Lyngby, near Copenhagen, Denmark. Alarm apparatus. No. 1,391,684; Sept. 27; v. 290; p. 656.
- Jørgensen, Bernhardt, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers to lasts. No. 1,379,923; May 31; v. 286; p. 930.
- Jørgensen, Bernhardt, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers to lasts. No. 1,379,924; May 31; v. 286; p. 931.
- Jørgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. No. 1,392,336; Oct. 4.
- Jørgensen, Jorgen, Craig, Nebr. Pump-jack. No. 1,365,785; Jan. 18; v. 282; p. 420.
- Jørgensen, Olav E., Copenhagen, Denmark. Compressed-air starting device. No. 1,372,128; Mar. 22; v. 284; p. 600.
- Jorgensen, Ray. (See Smith, A. A., and Jorgensen.)
- Jorgenson, Andrew J. (See Johnston, C. E., and Jorgenson.)
- Jorgenson, George, Fargo, N. D. Ash-pan heater for locomotives. No. 1,379,572; May 24; v. 286; p. 790.
- Joseph, Edward L., Westminster, London, England. Ozone-generator. No. 1,368,560; Feb. 15; v. 283; p. 433.
- Joseph, Crosfield and Sons, Limited. (See Wheaton, Harold J., assignor.)
- Joseph, Harry F., Davenport, Iowa, assignor, by mesne assignments, to B. L. Schmidt Company. Internal-grinding machine. No. 1,396,123; Nov. 8.
- Joseph, Frank A., Naugatuck, Conn., assignor to L. Candee & Company. Footwear. No. 1,382,648; June 28; v. 287; p. 606.
- Joseph, Frank A., Naugatuck, Conn., assignor to L. Candee & Company. Making footwear. No. 1,382,649; June 28; v. 287; p. 607.
- Joseph, Richard, Massillon, Ohio. Roofing-tile. No. 1,395,423; Nov. 1.
- Josephson, Adalbert, New York, N. Y. Display-card. No. 1,395,581; Nov. 1.
- Josephs, Julius, assignor to The Crofut & Knapp Company, New York, N. Y. Soft hat. No. 1,382,290; June 21; v. 287; p. 484.
- Josephs, Lyman C., Jr., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Light-projector. No. 1,370,971; Mar. 8; v. 284; p. 276.
- Josephs, Lyman C., Jr., assignor to International Motor Company, New York, N. Y. Motor-truck excavator. No. 1,388,650; Aug. 23; v. 289; p. 713.
- Josephs, Milton. (See Roos, S. V., and Josephs.)
- Josephson, Harry, assignor of one-half to G. A. Jacobson, Bridgeport, Conn. Furniture-spring. No. 1,369,441; Feb. 22; v. 283; p. 643.
- Joselyn, Hubbard N., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,367,145; Feb. 1; v. 283; p. 52.
- Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Box-machine plunger. No. 1,365,920; Jan. 18; v. 282; p. 446.
- Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Tube-machine. No. 1,365,921; Jan. 18; v. 282; p. 447.
- Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Collapsible carton. No. 1,384,069; July 12; v. 288; p. 217.
- Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Folding mechanism. No. 1,400,292; Dec. 13.
- Joslyn Mfg. & Supply Co. (See Blaeser, Anthony J., assignor.)
- Joss, Fredrick E. (See Davis, W. H., and Joss.)
- Jossenberger, Vic E., assignor of thirty-nine per cent. to E. E. Hawley, Los Angeles, Calif. Motor-mounting for aerial vehicles. No. 1,366,262; Jan. 18; v. 282; p. 513.
- Jost, Heinrich, assignor to E. Rutishauser, Kreuzlingen, Switzerland. Templet. No. 1,379,630; May 31; v. 286; p. 876.
- Jouffret, Henri V. J., Neuilly-sur-Seine, France. Sparking plug. No. 1,368,160; Feb. 8; v. 283; p. 307.
- Jouffret, Henri V. J., Neuilly-sur-Seine, France. Valve-operating mechanism. No. 1,368,161; Feb. 8; v. 283; p. 307.
- Jouffret, Henri V. J., Neuilly-sur-Seine, assignor to The Society "Anciens Etablissements Caffort Freres," Paris, France. Engine or motor. No. 1,401,784; Dec. 27.
- Jourdan, John W., Las Cruces, N. Mex. Game of cards. No. 1,381,643; June 14; v. 287; p. 302.
- Jourdain, Louis, Lowell, Mass. Thread-cutter for looms. No. 1,393,539; Oct. 11.
- Jourdan, Louis, and A. Trémaux, St. Etienne, France. Nut-fastener. No. 1,386,259; Aug. 2; v. 289; p. 59.
- Joy, Bertram C., Hempstead, London, England. Apparatus for producing a vacuum for vacuum-cleaning and dust-removing purposes. No. 1,384,898; July 19; v. 288; p. 470.
- Joy, Fred. (See Holmes, George A., assignor.)
- Joy, Henry B., Detroit, Mich., assignor, by mesne assignments, to Isko Company, Chicago, Ill. Refrigerating apparatus. No. 1,367,266; Feb. 1; v. 283; p. 77.
- Joy, Joseph F., Pittsburgh, Pa. Trailing-cable fuse and handle. No. 1,371,310; Mar. 15; v. 284; p. 404.
- Joy, Joseph F., Pittsburgh, Pa. Means for railway-track extensions. No. 1,392,648; Oct. 4.
- Joy, Vernon A., New York, N. Y. Device for displaying the covering of boxes and other containers. No. 1,380,148; May 31; v. 286; p. 973.
- Joy, William H., and H. G. Porter, Lansing, Mich. Knock-down voting-booth. No. 1,393,224; Oct. 11.
- Joyce-Cridland Company, The. (See Derby, Charles D., assignor.)
- Joyce Cridland Company, The. (See Kohorst, Edward H., assignor.)
- Joyce Cridland Company, The. (See Ripsch, C. W., Dawley, and Derby, assignors.)
- Joyce, Roy E., Bartlesville, Okla. Power-transmitting mechanism for motor-vehicles. No. 1,390,716; Sept. 13; v. 290; p. 324.
- Joyce, Walter P., and H. A. Feldt, Kansas City, Mo. Pipe-cutting wheel. No. 1,374,663; Apr. 12; v. 285; p. 290.
- Joyce, William H., Leadville, Colo. Water-rigging for stoping-drills. No. 1,398,100; Nov. 22.
- Joyner, Lanson B., Washington, La. Internal-combustion engine. No. 1,391,832; Sept. 27; v. 290; p. 685.
- Jubilee Manufacturing Company. (See Gillet, Alexis F., assignor.)
- Juchtzer, Eugene E., San Francisco, Calif. Hay-bunching machine. No. 1,381,420; June 14; v. 287; p. 260.
- Judd, Charles T., Somerville, assignor to J. Duncan Company, Everett, Mass. Overhead tramway-switch. No. 1,377,134; May 3; v. 286; p. 143.
- Judd, Earldley C. B., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Closet-seat fixture. No. 1,396,934; Nov. 15.
- Judd, Henry S. (See Craver, Howard S., assignor.)
- Judd, Orion W., Paducah, Ky. Liquid-extractor. No. 1,400,957; Dec. 20.
- Judd, Sidney T., Lewisham, London, England. Resharpening of files, rasps, and the like. No. 1,372,170; Mar. 22; v. 284; p. 625.
- Judge, Joseph, Pittston, Pa. Steaming-crate. No. 1,390,911; Sept. 13; v. 290; p. 364.
- Judkins, John, London, Ontario, Canada. Closure for glass jars. No. 1,366,664; Jan. 25; v. 282; p. 636.
- Judson, David P., Parnassus, Pa. Gas-burner. No. 1,391,062; Sept. 20; v. 290; p. 457.
- Judson, Fred, Fullerton, Nebr. Farm-tractor. No. 1,386,874; Aug. 9; v. 289; p. 253.
- Judson, Madison C., Oshkosh, assignor to Simmons Company, Kenosha, Wis. Machine for making chain and fabric. No. 1,371,688; Mar. 15; v. 284; p. 479.
- Judson, Russell, Durand, Mich. Bean-picking machine. No. 1,366,665; Jan. 25; v. 282; p. 636.
- Judycki, Carl, Athol, Mass. Combined key and permutation-padlock. No. 1,384,390; July 12; v. 288; p. 284.
- Juefils, Albert and A. A., Dixon, Ill. Dumping-truck. No. 1,366,666; Jan. 25; v. 282; p. 636.
- Juefils, Albert, McPherson, Kans. Wrecking-bar. No. 1,377,014; May 3; v. 286; p. 121.
- Juefils, Allen A. (See Juefils, Albert and A. A.)
- Juelson, Edwin, assignor to American Aero Company, Chicago Ill. Adjustable propeller-blade. No. 1,382,836; June 28; v. 287; p. 642.
- Juengst, Charles A., Croton Falls, N. Y., assignor to American Assembling Machine Company, Inc., Memphis, Tenn. Book covering and binding machine. No. 1,389,762; Sept. 6; v. 290; p. 40.
- Juengst, Charles A., Croton Falls, N. Y., assignor to American Assembling Machine Company, Inc., Memphis, Tenn. Cutting mechanism. No. 1,394,309; Oct. 18.
- Juhl, Peter C., New York, N. Y. Obstetrical table. No. 1,382,513; Mar. 22; v. 284; p. 693.
- Juhnke, Edward A. (See Daniel, C., and Juhnke.)
- Jukes, Karl, Wuthenow, near Neuruppin, Germany. Weighing-machine. No. 1,399,433; Dec. 6.
- Julian, Hubert, Montreal, Quebec, Canada. Airplane safety appliance. No. 1,379,264; May 24; v. 286; p. 732.
- Julien, Charles, Jersey City, N. J. Rigging for sailing vessel. No. 1,379,573; May 24; v. 286; p. 790.
- Julien, Napoleon P., Sorel, Quebec, Canada. Raising and lowering device for elevators. No. 1,366,079; Jan. 18; v. 282; p. 477.
- Julius, George A., Sydney, and F. A. Wilkinson, Sans Souci, near Sydney, New South Wales, Australia. Ticket-issuing machine. No. 1,395,279; Nov. 1.
- Julius, John D., Heltonville, Ind. Incubator-heating system. No. 1,399,865; Dec. 13.
- Julius Pintsch Akt.-Ges. (See Schaller, Otto, assignor.)
- Jung, Henry, Norwood, Ohio. Machine-reamer. No. 1,366,733; Jan. 25; v. 282; p. 650.
- Jungbluth, Carl J. (See Hammer, Knott, and Jungbluth.)
- Junge, Charles O., assignor of one-half to E. E. Rieck, Pittsburgh, Pa. Refrigerator-body for vehicles. No. 1,400,880; Dec. 20.
- Junge, Henry, et al. (See Leary, Edward J., assignor.)
- Jungers, John, Grafton, Wis. Sectional heater. No. 1,374,575; Apr. 12; v. 285; p. 273.
- Jungren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,366,667; Jan. 25; v. 282; p. 637.
- Jungren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Supporting means for turbine-driven units and the like. No. 1,369,667; Feb. 22; v. 283; p. 687.



*Alphabetical list of patentees—Continued.*

- Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Supporting means for turbines, turbine-driven sets, and the like. No. 1,369,668; Feb. 22; v. 283; p. 688.
- Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,378,464; May 17; v. 286; p. 507.
- Junghans, J. Oskar, Schramberg, Germany. Electric pocket-lamp. No. 1,367,781; Feb. 8; v. 283; p. 235.
- Junghans, J. Oskar, Schramberg, Germany. Driving-gear. No. 1,367,782; Feb. 8; v. 283; p. 235.
- Jungling, Ernest R., New York, N. Y. Sheet-gages for addressing-machines. No. 1,397,125; Nov. 15.
- Jungner, Ernst W., Kneippshaden, Sweden. Primary galvanic battery with unalterable electrolyte. No. 1,370,119; Mar. 1; v. 284; p. 68.
- Juniper, Witt, Detroit, Mich. Ventilating-window for motor-vehicles. No. 1,364,114; Jan. 4; v. 282; p. 13.
- Junkers, Hugo. (See Wagenseil, Ludwig, assignor.)
- Junkers, Hugo, Aachen, Germany. Apparatus for heating liquids. No. 1,367,146; Feb. 1; v. 283; p. 53.
- Junkers, Hugo, Aix-la-Chapelle, Germany, assignor, by mesne assignments, to Opposed Piston Oil Engine Co. Inc. Double-piston engine. No. 1,386,062; Aug. 2; v. 289; p. 20.
- Juopperi, Mathias E., Astoria, Oreg. Harrow. No. 1,389,512; Aug. 30; v. 289; p. 939.
- Jurek, Frank J., Buffalo, N. Y. Aeroplane. No. 1,375,297; Apr. 19; v. 285; p. 474.
- Jurek, Martin, Dallas, Tex. Refrigerator-door. No. 1,382,837; June 28; v. 287; p. 642.
- Juresisin, George, Wilkes-Barre, Pa. Mine-drill. No. 1,374,744; Apr. 12; v. 285; p. 305.
- Jurgielowicz, Leopold, Los Angeles, Calif. Safety-watch-pocket protector. No. 1,380,212; May 13; v. 286; p. 985.
- Jurik, Paul A., Renosha, Wis. Automobile direction-indicator. No. 1,368,502; Feb. 15; v. 283; p. 422.
- Juriw, Teodor, East Douglas, Mass. Beehive. No. 1,374,745; Apr. 12; v. 285; p. 305.
- Jurkovich, Conrad, assignor of forty per cent. to P. Hibler, Joliet, Ill. Convertible bench. No. 1,401,083; Dec. 20.
- Juroka, John, Cleveland, Ohio. Railway-track construction. No. 1,377,489; May 10; v. 286; p. 269.
- Jurowski, Edward, Baltimore, Md. Igniting device. No. 1,397,637; Nov. 22.
- Jury, Wilson M., Freeport, Ill. Direction-indicator for vehicles. No. 1,392,171; Sept. 27; v. 290; p. 754.
- Juska, Christopher, Rochester, Minn. Mop. No. 1,381,879; June 14; v. 287; p. 348.
- Justice, Ithamar M., assignor to The Manufacturers Equipment Company, Dayton, Ohio. Gas-burner. No. 1,364,281; Jan. 4; v. 282; p. 46.
- Justice, Ithamar M., assignor to The Manufacturers Equipment Company, Dayton, Ohio. Gas-burner. No. 1,367,704; Feb. 8; v. 283; p. 220.
- Justice, Ithamar M., assignor to The Manufacturers Equipment Company, Dayton, Ohio. Process in direct-action driers. No. 1,393,788; Oct. 18.
- Justice, Ithamar M., and G. A. Willigman, Dayton, Ohio. Apparatus for baking material. (updraft kiln.) No. 1,385,686; July 26; v. 288; p. 708.
- Justrite Manufacturing Company. (See Frisbie, William J., assignor.)
- Justrite Manufacturing Company. (See Hansen, Augie L., assignor.)
- Justus, Henry W., Napanoch, N. Y. Trap. No. 1,380,971; June 7; v. 287; p. 124.
- Justus, Henry W., Napanoch, N. Y. Relief-valve. No. 1,399,710; Dec. 6.
- Justus, Theodore S., Chicago, Ill. Clothespin. No. 1,395,424; Nov. 1.
- Jutton, Henry W., Hamilton, Ontario, Canada. Upright electric toaster. No. 1,395,345; Nov. 1.
- Juve, Walter H. (See Hoffman, H. A., and Juve.)
- Juvet, de Stoutz, & Meyer. (See Juvet, R., and de Stoutz, assignors.)
- Juvet, Roger, and D. de Stoutz, assignors to the Firm of Juvet, de Stoutz & Meyer, Zurich, Switzerland. Exhibition-car. No. 1,397,965; Nov. 22.
- K. M. Manufacturing Company, The. (See Kestel, Henry C., assignor.)
- K. M. Manufacturing Company, The. (See Wollenweber, Paul F., assignor.)
- Kaase, John, assignor to The Upson Nut Company, Cleveland, Ohio. Mechanism for feeding blanks to metal-working machines. No. 1,387,055; Aug. 9; v. 289; p. 289.
- Kabacil, George, and A. Bartus, Wyatt, W. Va. Antislipping device. No. 1,378,962; May 24; v. 286; p. 675.
- Kahlfing, Bernard R., Oakland, Calif. Annunciator. No. 1,396,636; Nov. 8.
- Kabo Corset Company. (See Keller, Herman A., assignor.)
- Kabushiki Kaisha Osaka Tekkosho. (See Otsu, Shintaro, assignor.)
- Kadow, August, Toledo, Ohio. Vehicle-body-equalizing means. No. 1,389,648; Sept. 7; v. 290; p. 18.
- Kaefer, John G., assignor to The Cincinnati Aluminum Casting Company, Norwood, Ohio. Vehicle-door handle. No. 1,397,426; Nov. 15.
- Kaehn, Henry B., assignor of one-half to T. B. Gilbert, Goltzy, Okla. Rail-joint. No. 1,382,291; June 21; v. 287; p. 484.
- Kaelin, Frederick T. (See Matheson, H. W., and Kaelin.)
- Kaempff, Ludwig W., Fort Scott, Kans. Trolley. No. 1,375,591; Apr. 19; v. 285; p. 530.
- Kaempffe, Gustave M., Peetzburg, N. J. Window frame and screen. No. 1,370,214; Mar. 1; v. 284; p. 87.
- Kafader, James O., Fort Bidwell, Calif. Hydraulic ram. No. 1,383,143; June 28; v. 287; p. 700.
- Kahl, Ernest E. (See John, B., and Kahl.)
- Kahl, John K., St. Louis, Mo. Automatic toy. No. 1,390,136; Sept. 6; v. 290; p. 116.
- Kahl, John M., Heaton, N. D. Automatic-release clevis. No. 1,379,574; May 24; v. 286; p. 791.
- Kahl, Roger A., Wallingford, Conn. Collar-button. No. 1,378,288; May 17; v. 286; p. 464.
- Kahl, Roger A., Wallingford, Conn. Collar-button. No. 1,383,810; July 5; v. 288; p. 11.
- Kahler, Charles F., Chicago, Ill. Slack-adjuster. No. 1,396,218; Nov. 8.
- Kahlow, Arthur, Milwaukee, Wis. Hinge structure for suitcases and the like. No. 1,367,978; Feb. 8; v. 283; p. 272.
- Kahn, Bernard J., Denver, Colo. Combined clip and spacer for electric conduits. No. 1,366,321; Jan. 18; v. 282; p. 524.
- Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Electric heater. (Re-issue.) No. 15,085; Apr. 12; v. 285; p. 335.
- Kahn, Dolphy. (See Badois, L., and Kahn.)
- Kahn, Fred, Tonganoxie, Kans. Ignition and scavenging means for internal-combustion engines. No. 1,401,706; Dec. 27.
- Kahn Mirror Plate Company. (See Martin, Rudolph, assignor.)
- Kahn, Moritz. (See Ritchie, H. C., and Kahn.)
- Kahn, Moses M., San Francisco, and F. J. Silva, Oakland, Calif.; said Silva assignor to M. M. Kahn. Dump-body partition and operating means therefor. No. 1,376,146; Apr. 20; v. 285; p. 668.
- Kahn, Samuel, New York, N. Y. Window-cleaning device. No. 1,395,280; Nov. 1.
- Kahn, Samuel B., Chicago, Ill. Cuff-link. No. 1,369,926; Mar. 1; v. 284; p. 33.
- Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Device for connecting bowls and shades in lighting-fixtures. No. 1,397,285; Nov. 15.
- Kahre, John F., assignor of one-fifth to A. F. Oexman, Vincennes, Ind. Tag. No. 1,370,691; Mar. 8; v. 284; p. 223.
- Kaiser, Ferdinand, St. Paul, Minn. Pencil. No. 1,378,174; May 17; v. 286; p. 452.
- Kaiser, John B. (See Eisele, Otto J., assignor.)
- Kaiser, Leon L., Lodi, Calif. Speed-table. No. 1,401,785; Dec. 27.
- Kaiser, Louis H., assignor to The John Van Range Company, Cincinnati, Ohio. Wheeling service-cart. No. 1,396,713; Nov. 8.
- Kaiser, Otto. (See Gams, A., and Kaiser.)
- Kaiser, Peter, assignor to 103 Degree Incubator Company, Crown Point, Ind. Incubator. No. 1,369,816; Mar. 1; v. 284; p. 12.
- Kaiser, Ralph L., Oakland, Calif. Combination foldable table and bench. No. 1,391,833; Sept. 27; v. 290; p. 686.
- Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Relay. No. 1,366,912; Feb. 1; v. 283; p. 6.
- Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Governor for calling devices. No. 1,371,248; Mar. 15; v. 284; p. 392.
- Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Circuit-breaker relay. No. 1,378,869; May 24; v. 286; p. 658.
- Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Electrical switch. No. 1,386,626; Aug. 9; v. 289; p. 202.
- Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition-switch. No. 1,395,679; Nov. 1.
- Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Combination lighting and ignition switch. No. 1,399,017; Dec. 6.
- Kalamazoo Loose Leaf Binder Co. (See Shaw, Frank H., assignor.)
- Kalamazoo Loose Leaf Binder Company. (See Wigginton, George P., assignor.)
- Kalberer, George J., and J. A. Weigel, assignors to The Hamilton Caster & Manufacturing Company, Hamilton, Ohio. Caster. No. 1,385,947; July 26; v. 288; p. 760.
- Kalbfeisch Corporation, The. (See Fredrickson, John, assignor.)
- Kalbfeisch, George C., Tiffin, Ohio, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Ware-molding apparatus. No. 1,373,891; Apr. 5; v. 285; p. 100.
- Kale, Raymond. (See Sontgerathe, J. F., and Kale.)
- Kalemba, Tomasz, Uniontown, Pa. Animal-trap. No. 1,384,698; July 12; v. 288; p. 349.



## Alphabetical list of patentees—Continued.

- Kallauner, Theodore J., St. Joseph, Mo. Lawn-mower attachment for use on terraces. No. 1,368,503; Feb. 15; v. 283; p. 422.
- Kallenberg, Carl H., Troy, N. Y. Toy soldier. No. 1,386,178; Aug. 2; v. 289; p. 43.
- Kallis, M. (See Gruenberger, George J., assignor.)
- Kalman, Louis O., and A. S. Shapiro, Montreal, Quebec, Canada. Auto safety-bumper. No. 1,401,410; Dec. 27.
- Kalmanowitz, Jacob, Brooklyn, N. Y. Washing-machine. No. 1,376,815; May 3; v. 286; p. 83.
- Kamieniecki, Josef, Chicago, Ill. Submarine armor. No. 1,370,590; Mar. 8; v. 284; p. 203.
- Kalmus, Comstock & Westcott. (See Comstock, Daniel F., assignor.)
- Kalmus, Comstock & Westcott. (See Phelan, J. W., and Wall, assignors.)
- Kalmus, Comstock & Westcott. (See Tuttle, J. N., and Phelan, assignors.)
- Kalmus, Comstock & Westcott. (See Wall, E. J., and Phelan, assignors.)
- Kalmus, Comstock & Westcott. (See Wall, Edward J., assignor.)
- Kalmus Comstock & Wescott. (See Wescott, William B., assignor.)
- Kalteyer, Frederick J., Philadelphia, Pa., assignor to Electrostop Manufacturing Company. Governor. No. 1,379,265; May 24; v. 286; p. 732.
- Kaltreider, John L., and C. F. Shryock, Hanover, Pa. Rim constricting and expanding device. No. 1,385,377; July 26; v. 288; p. 644.
- Kamenetzky, Ralph, Brooklyn, N. Y. Umbrella-handle. No. 1,380,213; May 31; v. 286; p. 985.
- Kamenos, Mike, Washington, D. C. Wearing-apparel for diving and swimming. No. 1,369,669; Feb. 22; v. 283; p. 688.
- Kameron, Tom. (See Jameson, E. E., and Kameron.)
- Kaminska, Maria. (See Weliki, George, assignor.)
- Kamm, Oliver, Urbana, and E. H. Volwiler, Chicago, Ill. Anesthetic compound. No. 1,388,573; Aug. 23; v. 289; p. 698.
- Kammerdeiner, Harry O., Echo, Pa. Rail-joint. No. 1,389,448; Aug. 30; v. 289; p. 926.
- Kammers, John V., Sprague, Wash. Rear axle. No. 1,394,842; Oct. 25.
- Kammritz, Arthur E., Hartford, Conn. Oil-can. No. 1,378,239; May 17; v. 286; p. 464.
- Kamp, Walter V., and T. R. Macmechen, Philadelphia, Pa. Propeller. No. 1,372,755; Mar. 29; v. 284; p. 781.
- Kamper, Edward, assignor to The Willys-Overland Company, Toledo, Ohio. Tube-bending machine. No. 1,376,441; May 3; v. 286; p. 12.
- Kampfe, Otto, Bellmore, assignor of one-half to H. C. Walker, New York, N. Y. Safety-razor. No. 1,391,478; Sept. 20; v. 290; p. 541.
- Kampmann, Gerhardt S. R., Taulov-Station, Denmark, assignor to Naamlooze Vennootschap Handel-Maatschappij "Planet", The Hague, Netherlands. Lock. No. 1,401,910; Dec. 27.
- Kamrath, Charles F., Omaha, Nebr. Rendering fats and oils. No. 1,394,736; Oct. 25.
- Kamrowski, Frank, Stevens Point, Wis. Windshield attachment. No. 1,379,104; May 24; v. 286; p. 702.
- Kanakaris, James, Toledo, Ohio. Time-controlled phonograph. No. 1,381,644; June 14; v. 287; p. 302.
- Kando, Kalman V., Budapest, Hungary. Crank-gear for motor-driven vehicles. No. 1,388,344; Aug. 23; v. 289; p. 653.
- Kane, Aurelian L., Ossining, N. Y. Smokehouse. No. 1,383,814; July 5; v. 288; p. 116.
- Kane, Charles R. D., Raymond, Wash. Rule-holder. No. 1,370,452; Mar. 1; v. 284; p. 132.
- Kane, John J. (See Borchard, Robert W., assignor.)
- Kane, Robert, Humboldt, Ill. Hayrack-lifter. No. 1,398,460; Nov. 29.
- Kane, Thomas E., Canton, assignor of one-half to A. Syde-man, Boston, Mass. Machine for trimming the overflow from the breast of rubber heels. No. 1,376,018; Apr. 26; v. 285; p. 644.
- Kane, Thomas M., Baltimore, Md. Turret-locking mechanism. No. 1,370,821; Mar. 8; v. 284; p. 248.
- Kane, William, Philadelphia, Pa. Automatic gas-regulator. No. 1,384,323; July 12; v. 288; p. 270.
- Kanet, Emil, Agram, Hungary, assignor, by mesne assignments, to The Chemical Foundation, Inc. Dressing hides. No. 1,367,054; Feb. 1; v. 283; p. 34.
- Kania, Rudolf, Vindex, Md. Boiler. No. 1,364,115; Jan. 4; v. 282; p. 13.
- Kanik, Rudolph M., Clintonville, Wis. Steering-knuckle. No. 1,372,883; Mar. 29; v. 284; p. 807.
- Kann, William L. (See Haas, Herbert, assignor.)
- Kann, William L., trustee. (See Fenchelle, Hugh E., assignor.)
- Kann, William L., Pittsburgh, Pa. Abrasive for grinding and smoothing glass. No. 1,387,649; Aug. 16; v. 289; p. 459.
- Kanner, Samuel. (See Pollak, Abraham, assignor.)
- Kanner, Samuel, New York, N. Y. Razor-blade-sharpening machine. No. 1,385,622; July 2; v. 288; p. 695.
- Kansas City Elevator Manufacturing Company. (See Turner, Frederick E., assignor.)
- Kansas City Gasoline Company, The. (See Wellman, Frank E., assignor.)
- Kanster, Jacob, Newark, N. J. Washtub-cover. No. 1,387,006; Aug. 9; v. 289; p. 279.
- Kauter, Victor E., East Melbourne, Victoria, Australia. Resilient tire for vehicle-wheels. No. 1,372,232; Mar. 22; v. 284; p. 639.
- Kanter, William, assignor to The Kanthers Stamping and Manufacturing Company, Cleveland, Ohio. Hinge. No. 1,384,260; July 12; v. 288; p. 257.
- Kanthers Stamping and Manufacturing Company, The. (See Kanter, William, assignor.)
- Kanther, Washington C., Reading, Pa. Sound-box. No. 1,394,427; Oct. 18.
- Kanther, Washington C., Reading, Pa. Sound-box. No. 1,394,428; Oct. 18.
- Kantor, Paul, Sonman, Pa. Portable sewing device. No. 1,364,936; Jan. 11; v. 282; p. 216.
- Kantrowitz, Isaac, New York, N. Y. Die for making articles from sheet metal. No. 1,368,731; Feb. 15; v. 283; p. 467.
- Kapferer, Henry, Boulogne-sur-Selne, France. Trailer. No. 1,401,786; Dec. 27.
- Kapinos, Frank, and G. Chizek, Canby, Minn. Grain-shock loader. No. 1,378,240; May 17; v. 286; p. 464.
- Kaplan, Adolph, and J. Serediuk, Winnipeg, Manitoba, Canada. File-handle. No. 1,372,029; Mar. 22; v. 284; p. 600.
- Kaplan, Louis, New York, N. Y. Rubber heel. No. 1,387,988; Aug. 16; v. 289; p. 526.
- Kaplan, Samuel, et al. (See Howell, Henry M., assignor.)
- Kaplan, Victor, Brunn, Austria. Turbine-machine. No. 1,399,059; Dec. 6.
- Kapolkin, Herman, New York, N. Y. Concrete railway tie. No. 1,384,070; July 12; v. 288; p. 217.
- Kapotkin, Herman, New York, N. Y. Soft-collar clasp. No. 1,399,389; Dec. 6.
- Kappel, Charles, Chicago, Ill. Ice-can. No. 1,380,149; May 31; v. 286; p. 974.
- Kappes, Andrew C., assignor to William Wrigley Jr. Company, Chicago, Ill. Numbering device for wrapping-machines. No. 1,384,899; July 19; v. 288; p. 470.
- Kappes, William H., assignor to The Verdin, Kappes & Verdin Company, Cincinnati, Ohio. Clutch-trip mechanism. No. 1,391,190; Sept. 20; v. 290; p. 482.
- Kappey, William F. (See Miller, Henry L., assignor.)
- Kappner, Max, Cincinnati, Ohio. Arch-support for the human foot. No. 1,395,498; Nov. 1.
- Kaps, Richard A., assignor to The Cincinnati Bail Crank Company, Cincinnati, Ohio. Steering reach-rod. No. 1,401,110; Dec. 20.
- Karabin, Michael, J., Skociokh, and K. Mandl, New Britain, Conn. Making glass collar-buttons. No. 1,372,294; Mar. 22; v. 284; p. 651.
- Karamanous, Demetrios, Donora, Pa. Actuating mechanism. No. 1,384,135; July 12; v. 288; p. 231.
- Karandyszewski, Ludwik, Schenectady, N. Y. Trolley-finder. No. 1,301,387; Sept. 20; v. 290; p. 522.
- Karbouch, John, Boston, Mass. Machine for bending angle-iron. No. 1,380,482; June 7; v. 287; p. 30.
- Karbouski, Martin, Cicero, Ill. Insect-trap. No. 1,386,408; Aug. 2; v. 289; p. 87.
- Kardell, Henry W., University City, assignor to Kardell Tractor & Truck Company, St. Louis, Mo. Traction-wheel. No. 1,385,455; July 26; v. 288; p. 660.
- Kardell Tractor & Truck Company. (See Kardell, Henry W., assignor.)
- Kardes, Mathew, et al. (See Farrell, Richard J., assignor.)
- Karg, Frank J. (See Herman, L., and Karg.)
- Karge, Maxwell R., Phoenix, assignor to The Citizens National Bank, Fulton, N. Y. Cushion power-transmitting element. No. 1,387,726; Aug. 16; v. 289; p. 474.
- Karge, Maxwell R., Phoenix, assignor to The Citizens National Bank, Fulton, N. Y. Steering-gear for motor-vehicles. No. 1,387,727; Aug. 16; v. 289; p. 474.
- Karger, David, Milwaukee, Wis. Knitted cap. No. 1,395,230; Oct. 25.
- Kargus, Walter, et al. (See Stoewsand, Charles F., assignor.)
- Karich, Rudolf R., assignor to The American Taximeter Company, New York, N. Y. Hub-odometer drive. No. 1,368,504; Feb. 15; v. 283; p. 422.
- Karich, Rudolf R., Woodhaven, assignor to The American Taximeter Company, New York, N. Y. Axle-coupling for hub-odometers. No. 1,368,505; Feb. 15; v. 283; p. 423.
- Karich, Rudolf R., Woodhaven, assignor to The American Taximeter Company, New York, N. Y. Counter-operating mechanism for hub-odometers. No. 1,387,056; Aug. 9; v. 289; p. 290.
- Karitzky, John. (See Pleister, H. W., and Karitzky.)
- Karitzky, John. (See Sherwood, D. R., and Karitzky.)
- Karitzky, John, Garwood, N. J., assignor to H. B. Newhall, Jr., executor. Conduit or cable clamp and bridle-ring. No. 1,365,616; Jan. 11; v. 282; p. 347.
- Karitzky, John, Garwood, N. J., assignor to H. B. Newhall, Jr., executor. Conduit or cable clamp and bridle-ring. No. 1,365,617; Jan. 11; v. 282; p. 347.
- Karitzky, John, Garwood, N. J., assignor to H. B. Newhall, Jr., executor. Conduit or cable clamp and bridle-ring. No. 1,365,620; Jan. 11; v. 282; p. 348.



- Karitzky, John, Garwood, assignor to H. B. Newhall, Plainfield, N. J., executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,365,625; Jan. 11; v. 282; p. 348.
- Karitzky, John, Garwood, assignor to H. B. Newhall, Plainfield, N. J., executor. Conduit or cable clamp and bridle-ring. No. 1,365,628; Jan. 11; v. 282; p. 349.
- Karitzky, John, Garwood, assignor to H. B. Newhall, Plainfield, N. J., executor. Conduit or cable clamp and bridle-ring. No. 1,365,630; Jan. 11; v. 282; p. 349.
- Karitzky, John, Garwood, N. J., assignor to Garwood Company. Toggle. No. 1,374,924; Apr. 19; v. 285; p. 402.
- Karitzky, John, Garwood, N. J., assignor to Garwood Company. Toggle. No. 1,374,925; Apr. 19; v. 285; p. 402.
- Karitzky, John, Garwood, assignor to H. B. Newhall, Jr., Plainfield, N. J., executor. Spring-toggle. No. 1,374,926; Apr. 19; v. 285; p. 402.
- Karitzky, John, Garwood, N. J., assignor to H. B. Newhall, Plainfield, N. J., executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,198; June 14; v. 287; p. 219.
- Karitzky, John, Garwood, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,199; June 14; v. 287; p. 220.
- Karitzky, John, Garwood, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,200; June 14; v. 287; p. 220.
- Karl, Andrew J., and B. F. Webb, Sistersville, W. Va. Transmission. No. 1,400,500; Dec. 13.
- Karl, Julius E., Peoria, Ill. Vehicle-top. No. 1,371,626; Mar. 15; v. 284; p. 467.
- Karl, Julius E., Peoria, Ill. Apparatus for automatically painting articles in bulk. No. 1,391,388; Sept. 20; v. 290; p. 523.
- Karlson, Eric F., Beaumont, Tex. Power-hammer. No. 1,400,166; Dec. 13.
- Karlson, Henry C. (See Ahlmgren, W., and Karlson.)
- Karlson, Henry C., *et al.* (See Ahlmgren, Walborg, assignor.)
- Karlson, Henry C., *et al.* (See Townsend, Frederick E., assignor.)
- Karlson, Henry C., borough of Hasbrouck Heights, N. J. Sanitary attachment for telephones. No. 1,367,267; Feb. 1; v. 283; p. 77.
- Karlsson, George. (See Wiberg, O. A., and Karlsson.)
- Karlsson, Walfrid, Wiggbyholm, near Stockholm, assignor to Aktiebolaget Tubus, Stockholm, Sweden. Heater for hot-pipe systems. No. 1,394,557; Oct. 25.
- Karmire, William J., assignor to E. A. Swain, Shelbyville, Ind. Joining-equalizer for woodworking. No. 1,401,787; Dec. 27.
- Karns, Ella, Jackson, Wyo. Time-controlled dam-gate. No. 1,371,172; Mar. 8; v. 284; p. 314.
- Karns, Ira A., Tulsa, Okla. Sand-settler. No. 1,397,836; Nov. 22.
- Karp, Joseph H., New York, N. Y. Shoe-polishing machine. No. 1,400,440; Dec. 13.
- Karpen, S., & Bros. (See Voss, H. C., and Hultgren, assignors.)
- Karpenko, Archip, New York, N. Y. Potato-planter. No. 1,389,363; Aug. 30; v. 289; p. 910.
- Karr, Francis, Holland, Mich. Bed-spring. No. 1,388,263; Aug. 23; v. 289; p. 637.
- Karr, Henry C., assignor of one-fifth to E. Bönnellycke, Washington, D. C. Watch-stand. No. 1,384,071; July 12; v. 288; p. 217.
- Karrakis, Clara, administratrix. (See Karrakis, Joseph, assignor.)
- Karrakis, Joseph, deceased, Newark, N. J.; Clara Karrakis, administratrix. Bedpan. No. 1,400,074; Dec. 13.
- Karraz, Isaac S., and L. H. Bridwell, Dumas, Ark. Cheese-cutter. No. 1,366,808; Jan. 25; v. 282; p. 665.
- Karro, William W., Great Neck, N. Y. Roller-skate. No. 1,367,397; Feb. 1; v. 283; p. 103.
- Karro, William W., Great Neck, N. Y. Unitary motor-mount. No. 1,369,748; Feb. 22; v. 283; p. 704.
- Karro, William W., Great Neck, N. Y. Skate. No. 1,393,024; Oct. 11.
- Karron, Louis. (See Meltzer, H., and Karron.)
- Karry-Lode Industrial Truck Company. (See Schroeder, William, assignor.)
- Karschitz, Frank, Bridgeport, Conn. Collapsible table and chair. No. 1,367,908; Feb. 8; v. 283; p. 259.
- Karschitz, Frank, Bridgeport, Conn. Adjustable holder. No. 1,397,254; Nov. 15.
- Kartmark, Otto, New Haven, Conn. Locked surface pin. No. 1,371,901; Mar. 15; v. 284; p. 519.
- Kasai, Kaichi, O-muta, Fukuoka Ken, assignor to Mitsui Mining Co., Tokyo, Japan. Manufacture of paranitroanilin from paranitroacetanilid. No. 1,400,555; Dec. 20.
- Kaschewski, Frederick, Davenport, Iowa. Machine for cutting fabrics to predetermined lengths. No. 1,377,777; May 10; v. 286; p. 824.
- Kashinsky, John, Hoboken, N. J., assignor to New Jersey Can Company, Weehawken, N. J. Combined mangle and table. No. 1,364,116; Jan. 4; v. 282; p. 13.
- Kashinsky, John, Hoboken, assignor to New Jersey Can Company, Weehawken, N. J. Steam washing-machine. No. 1,375,913; Apr. 26; v. 285; p. 623.
- Kashur, William, Meriden, Conn. Milk-bottle receptacle. No. 1,397,427; Nov. 15.
- Kaskell, Chester C., assignor to L. Bamberger & Company, Newark, N. J. Coin-box. No. 1,391,063; Sept. 20; v. 290; p. 457.
- Kasley, Alexander T., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Propeller. No. 1,372,295; Mar. 22; v. 284; p. 651.
- Kaşpar, Franz, Olumtz Hodolein, Czecho-Slovakia. Device for severing and applying stamps or the like to envelopes or other surfaces. No. 1,388,817; Aug. 23; v. 289; p. 746.
- Kaspar, Leopold, Gross-Senitz, Czecho-Slovakia. Machine for shelling and polishing grain and the like. No. 1,375,592; Apr. 19; v. 285; p. 530.
- Kasparowich, Leon, Roxbury, Mass. Lock. No. 1,373,134; Mar. 29; v. 284; p. 856.
- Kasprzyk, Jozef, Lancaster, Pa. Animal-trap. No. 1,395,680; Nov. 1.
- Kass, Peter, assignor of one-third to E. Brittain and one-third to J. A. Acker, Chicago, Ill. Upper buffer for vestibule-cars. No. 1,397,588; Nov. 22.
- Kass, Samuel M., Philadelphia, Pa. Trench-weapon. No. 1,370,888; May 3; v. 286; p. 97.
- Kass, Samuel M., Philadelphia, Pa. Mousetrap. No. 1,382,425; June 21; v. 287; p. 510.
- Kasson, Mahlon O., Chicago, Ill. Bottle-capping tool. No. 1,395,499; Nov. 1.
- Kästner, Alfred, and K. Stratomeyer, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Foundation for guns. No. 1,385,136; July 19; v. 288; p. 520.
- Katafiasz, Michael. (See Lewandowski, A., and Katafiasz.)
- Katcher, Joseph, Madera, Pa. Rail-joint. No. 1,382,511; June 21; v. 287; p. 526.
- Kately, Samuel E., and H. C. Alger, Chicago, Ill., assignors to R. R. Donnelley & Sons Company. Jogging-machine. No. 1,396,436; Nov. 8.
- Kathcart, Samuel M., assignor of one-half to W. H. Cooper, Leadwood, Mo. Wrench. No. 1,397,638; Nov. 22.
- Katz, Charles S., St. Louis, Mo. Filled Bangkok hat and making same. No. 1,391,546; Sept. 20; v. 290; p. 555.
- Katz, Max, assignor to Voss & Stern, New York, N. Y. Fabric. No. 1,393,025; Oct. 11.
- Katz, Nahum E., assignor of one-half to H. M. Little, Meridian, Miss. Method of and apparatus for separating sulfur from sulfur ores. No. 1,365,922; Jan. 18; v. 282; p. 447.
- Katzenberger, Oscar, assignor to Lawson Manufacturing Company, Chicago, Ill. Pivot spring-hinge. No. 1,383,815; July 5; v. 288; p. 116.
- Katzman, Louis, New York, N. Y. Shawl-coat. No. 1,373,248; Mar. 29; v. 284; p. 879.
- Katzung, George W. (See Long, M. E., and Katzung.)
- Kaufer Manufacturing Company. (See Kaufer, Theodore, assignor.)
- Kaufer, Theodore, New York, N. Y. Adjustable garment-hanger. No. 1,377,837; May 10; v. 286; p. 336.
- Kaufer, Theodore, New York, N. Y. Adjustable garment-hanger. No. 1,389,309; Aug. 30; v. 289; p. 899.
- Kaufer, Theodore, New York, N. Y. Garment-hanger. No. 1,389,310; Aug. 30; v. 289; p. 899.
- Kaufer, Theodore, New York, N. Y. Garment-hanger. No. 1,400,220; Dec. 13.
- Kaufer, Theodore, assignor to Kaufer Manufacturing Company, Inc., New York, N. Y. Garment-hanger. No. 1,367,662; Feb. 8; v. 283; p. 212.
- Kaufer, Theodore, assignor to Kaufer Manufacturing Company, Inc., New York, N. Y. Adjustable garment-hanger. No. 1,377,836; May 10; v. 286; p. 336.
- Kaufer, Theodore, assignor to Kaufer Manufacturing Company, Inc., New York, N. Y. Cooking-stove. No. 1,383,213; June 28; v. 287; p. 714.
- Kaufer, Theodore, assignor to Kaufer Manufacturing Company, Inc., New York, N. Y. Cooking-stove. No. 1,400,221; Dec. 13.
- Kaufma, Saul. (See Miller, Harry B., assignor.)
- Kaufman, Edwin N., Mahaffey, Pa. Knee-pad. No. 1,378,870; May 24; v. 286; p. 658.
- Kaufman, John A., Washington, D. C. Boat. No. 1,369,670; Feb. 22; v. 283; p. 688.
- Kaufman, John H., Pittsburgh, Pa. Gear transmission. No. 1,369,442; Feb. 22; v. 283; p. 643.
- Kaufmann, George J., Easton, assignor of one-half to M. F. Richardson, Cynwyd, Pa. Valve. No. 1,385,137; July 19; v. 288; p. 520.
- Kaufman, Sherman, assignor of one-third to C. Gillespie and one-third to H. Gillespie, Brownville, Nebr. Decoy. No. 1,376,282; Apr. 26; v. 285; p. 694.
- Kaufman, Adolph G., New York, N. Y. Generator. No. 1,370,591; Mar. 8; v. 284; p. 204.
- Kaufman, Alfonse, New York, N. Y., assignor, by mesne assignments, to Air Reduction Company Incorporated. Apparatus for forming nitrogen compounds. No. 1,379,187; May 24; v. 286; p. 717.
- Kaufman, Alfred, New York, N. Y. Hydrocarbon-burner. No. 1,395,187; Oct. 25.
- Kaufman, Herman, New Haven, Conn. Game. No. 1,381,563; June 14; v. 287; p. 287.
- Kaufman, Hyman. (See Slobin, L., and Kaufman.)



## Alphabetical list of patentees—Continued.

- Kaufman, Isaac S., New York, N. Y. Taper-cut mechanism for hair-cutters. No. 1,364,559; Jan. 4; v. 282; p. 99.
- Kaufman, John L., Brooklyn, N. Y. Process and apparatus for making natural-edge beaver hats. No. 1,389,364; Aug. 30; v. 289; p. 910.
- Kaufman, Jonas J., Pretty Prairie, Kans. Barrel-stand. No. 1,375,593; Apr. 19; v. 285; p. 530.
- Kaufman, Joseph, New York, assignor to American Safety Razor Company, Brooklyn, N. Y. Stick of shaving-soap. No. 1,380,388; June 7; v. 287; p. 12.
- Kaufman, Max, Brooklyn, N. Y. Lady's handbag. No. 1,376,099; Apr. 26; v. 285; p. 659.
- Kaufman, Samuel, Boston, Mass. Puncture-proof tire. No. 1,366,080; Jan. 18; v. 282; p. 477.
- Kaufman, Walter F. (See Scholes, S. R., Lowell, and Kaufman.)
- Kaufmann, Abraham J., assignor to E. C., B. L., and A. Wolf, Philadelphia, Pa. Display-box. No. 1,380,561; June 7; v. 287; p. 45.
- Kaufmann, Charles. (See Thomas, M., and Kaufmann.)
- Kaufmann, Jacob, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle. No. 1,379,824; May 31; v. 286; p. 912.
- Kaufmann, John W., Baltimore, Md. Reproducer for talking-machines. No. 1,367,979; Feb. 8; v. 283; p. 272.
- Kaufmann, John W., Baltimore, Md. Reproducer for talking-machines. No. 1,381,201; June 14; v. 287; p. 220.
- Kaufmann, John W., Baltimore, Md. Reproducer for talking-machines. No. 1,381,998; June 21; v. 287; p. 429.
- Kaufmann, Michael M. (See Keeran, C. R., and Kaufmann.)
- Kaufmann, Waller L., Santa Ana, Calif. Mounting for spotlights. No. 1,381,313; June 14; v. 287; p. 240.
- Kaul, Herman M., Cedarburg, Wis. Trolley-wheel. No. 1,400,681; Dec. 20.
- Kaup, Harry E., Bellevue, and R. J. Wilcox, Carnegie, assignors to Pressed Steel Car Company, Pittsburgh, Pa. Discharge-door-operating mechanism. No. 1,390,357; Sept. 13; v. 290; p. 25.
- Kaupke, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Cultivator. No. 1,387,405; Aug. 9; v. 289; p. 358.
- Kaupke, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Power-lift lister. No. 1,387,406; Aug. 9; v. 289; p. 359.
- Kaupke, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Disc harrow. No. 1,399,018; Dec. 6.
- Kausen, Charles, Pasadena, Calif. File-holder. No. 1,386,341; Aug. 2; v. 289; p. 75.
- Kausrud, Eric C. (See Hooker, E. R., and Kausrud.)
- Kauth, Henry J. (See Kemp, N. S., and Kauth.)
- Kautz, Charles W., Jr., Lancaster, Pa. Circuit-restoring relay. No. 1,375,518; Apr. 19; v. 285; p. 516.
- Kaval, Samuel. (See Doynse, S., and Kaval.)
- Kavan, Wladimir, New York, N. Y. Rotary barber's pole. No. 1,366,668; Jan. 25; v. 282; p. 637.
- Kavan, Wladimir, New York, N. Y. Barber's pole. No. 1,372,954; Mar. 29; v. 284; p. 821.
- Kavle, Oscar C., Syracuse, N. Y. Gear-testing mechanism. No. 1,395,582; Nov. 1.
- Kawakita, Yoshinao, Kamoto-Gun, Kumamoto-Ken, Japan. Producing nitric acid. No. 1,371,789; Mar. 15; v. 284; p. 498.
- Kawasaki, Utakichi, San Francisco, Calif. Back-scrubbing device. No. 1,379,925; May 31; v. 286; p. 931.
- Kawasoye, Bin, Tokyo, Japan. Mud-guard for automobiles and the like. No. 1,372,353; Mar. 22; v. 284; p. 662.
- Kawneer Manufacturing Company. (See Sanders, Francis C., assignor.)
- Kay, Gordon, New York, assignor to C. G. Percy, Yonkers, N. Y. Collapsible-carton display. No. 1,392,337; Oct. 4.
- Kay, Harry, Bury, England. Driving-gear especially for groups of rolls. No. 1,397,893; Nov. 22.
- Kay, William H., Swampscott, Mass. Last-engaging dog for last-lathes. No. 1,368,035; Feb. 8; v. 283; p. 282.
- Kaye, Samuel, Columbus, Miss. Packing-joint for bottle-necks. No. 1,367,663; Feb. 8; v. 283; p. 212.
- Kaylor, Charles E., Lequire, Okla. Display-stand. No. 1,401,084; Dec. 20.
- Kaynee Company, The. (See Curtis, A. R., and Oathout, assignors.)
- Kays, William J., Hutchinson, Kans., assignor to The Crawford, McGregor and Canby Co., Dayton, Ohio. Golf-club. No. 1,378,416; May 17; v. 286; p. 498.
- Kayser, Mary L., Tyler, Tex. Ink-bottle. No. 1,377,588; May 10; v. 286; p. 287.
- Kaytar, Martin, Cupar, Saskatchewan, Canada. Automobile sled. No. 1,366,669; Jan. 25; v. 282; p. 637.
- Kazanlian, Manooq, Charlestown, Mass. Easel. No. 1,391,479; Sept. 20; v. 290; p. 541.
- Kazda, Peter J., Oklahoma, Okla. Washing-machine. No. 1,375,637; Apr. 19; v. 285; p. 539.
- K'Burg, Howard E., Mountain Lakes, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,370,022; Mar. 1; v. 284; p. 51.
- Keagy, Charles O., Pittsford, Pa. Pivot-joint. No. 1,387,989; Aug. 16; v. 289; p. 526.
- Keall, Frank B. (See Jerram, A. E., and Keall.)
- Kean, Elwood A., and B. L. Nicholson, Tacoma, Wash. Street-car enunciator. No. 1,378,465; May 17; v. 286; p. 507.
- Kean, Henry B., Stanley, N. Y. Cherry-picker. No. 1,364,766; Jan. 4; v. 282; p. 139.
- Kearney Comb & Novelty Co. (See Schroeder, Ernest C., assignor.)
- Kearney, James R. (See McDonald, Vernon M., assignor.)
- Kearney, Leo A. (See Jacobson, Arge L., assignor.)
- Kearney, Samuel G., Topeka, Kans. Guy-clamp. No. 1,365,411; Jan. 11; v. 282; p. 307.
- Kearns, Margaret T., Newark, N. J. Glove-drier form. No. 1,369,341; Feb. 22; v. 283; p. 623.
- Kearns, William S., Duluth, assignor of one-fourth to H. B. Smith, St. Paul, Minn., and one-half to P. Wertz, Pittsburgh, Pa. Grease-cup for locomotives. No. 1,375,703; Apr. 26; v. 285; p. 584.
- Keating, Michael, Dayton, Ohio. Valve-plug remover. No. 1,380,562; June 7; v. 287; p. 45.
- Keator, Edward O., Dayton, Ohio. Cable-coupling. No. 1,375,519; Apr. 19; v. 285; p. 516.
- Keator, Frank Y., Aurora, assignor of one-half to H. C. Davis, Evanston, Ill. Confection for use as a chewing-gum. No. 1,386,627; Aug. 9; v. 289; p. 202.
- Keavey, John C., Cleveland, Ohio. Antiskid device. No. 1,388,264; Aug. 23; v. 289; p. 637.
- Kebler, Leonard, Bronxville, N. Y., assignor to Ward Leonard Electric Company. Resistance unit. No. 1,401,477; Dec. 27.
- Keck, Charles B. (See Grob, A., Keck, and Baird.)
- Keck, Edwin G., East Greenville, Pa. Peace century calendar. No. 1,368,162; Feb. 8; v. 283; p. 307.
- Keck, William M., Los Angeles, Calif. Bull and calf wheel gudgeon. No. 1,366,464; Jan. 25; v. 282; p. 596.
- Keckels, José, Portland, Oreg. Game-board. No. 1,378,175; May 17; v. 286; p. 452.
- Keckels, José, Portland, Oreg. Educational appliance for arithmetic. No. 1,378,241; May 17; v. 286; p. 465.
- Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,367,147; Feb. 1; v. 283; p. 53.
- Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic telephone system. No. 1,367,705; Feb. 8; v. 283; p. 220.
- Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling and telephone system. No. 1,387,270; Aug. 9; v. 289; p. 330.
- Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,387,271; Aug. 9; v. 289; p. 330.
- Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,400,075; Dec. 13.
- Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone signaling system. No. 1,400,076; Dec. 13.
- Keckskemetz, John, Detroit, Mich. Piston. No. 1,368,938; Feb. 15; v. 283; p. 506.
- Keebler, Elmer, assignor to The Mechanical Manufacturing Company, Chicago, Ill. Viscera-inspection table. No. 1,380,563; June 7; v. 287; p. 45.
- Keegan, Mary R., Woodsfield, Ohio. Collapsible wardrobe. No. 1,385,655; July 26; v. 283; p. 681.
- Keel, Eangelia A. (See Keel, John C., assignor.)
- Keel, John C., assignor of one-half to E. A. Keel, Rochester, N. Y. Dancing doll. No. 1,380,107; May 31; v. 286; p. 966.
- Keeler, Earl A., Norristown, assignor to Leeds & Northrup Company, Philadelphia, Pa. Optical pyrometry. No. 1,379,188; May 24; v. 286; p. 718.
- Keeler, Earl A., Norristown, assignor to Leeds & Northrup Company, Philadelphia, Pa. Compensation method and apparatus. No. 1,379,266; May 24; v. 286; p. 732.
- Keeline, Mrs. W. F., administratrix. (See Keeline, William F.)
- Keeline, William F., deceased, by Mrs. W. F. Keeline, administratrix, El Centro, Calif. Fruit-picker's bag. No. 1,394,197; Oct. 18.
- Keeling, Newton C., Danbury, Conn. Automatic train-stopping mechanism. No. 1,391,255; Sept. 20; v. 290; p. 496.
- Keeling, William O., Franklin, Ind. Piston and piston-ring. No. 1,387,272; Aug. 9; v. 289; p. 330.
- Keen, Harold P. (See Rulon, Watson B., assignor.)
- Keenan, George A., Pittsburgh, Pa. Method of and machine for straightening bars. No. 1,395,681; Nov. 1.
- Keenan, Thomas, Brooklyn, assignor of one-half to S. Cohen, New York, N. Y. Explosive-engine. No. 1,372,955; Mar. 29; v. 284; p. 822.
- Keene, George R., assignor to Mechanical Manufacturing Company, Chicago, Ill. Loin-holder and the like. No. 1,367,398; Feb. 1; v. 283; p. 103.
- Keene, Harry R. (See Sawyer, Walter H., assignor.)
- Keene, Louise T., Corning, Calif. Bedclothes-clamp. No. 1,393,137; Oct. 11.
- Keeney, S. H., et al. (See Prigan, Ernest W., assignor.)
- Keenun, Charles B., Cleveland, Ohio. Vehicle-rim. No. 1,389,649; Sept. 6; v. 290; p. 18.
- Keenun, Charles W., Tucson, Ariz. Envelop-vending machine. No. 1,394,429; Oct. 18.



- Keenum, James A., Lovington, N. Mex. Moose-forming device. No. 1,397,126; Nov. 15.
- Keeping, Thomas J., Los Angeles, Calif. Caster. No. 1,388,721; Aug. 23; v. 289; p. 727.
- Keoperts, Harry H., assignor to Anderson Forge & Machine Company, Detroit, Mich. Forming axles and like articles. No. 1,365,923; Jan. 18; v. 282; p. 447.
- Keeran, Charles R., Chicago, Ill. Front sight for guns. No. 1,380,150; May 31; v. 286; p. 974.
- Keeran, Charles R., assignor to Autopoint Pencil Company, Chicago, Ill. Pencil. No. 1,372,296; Mar. 22; v. 284; p. 652.
- Keeran, Charles R., assignor, by mesne assignments, to Autopoint Pencil Company, Chicago, Ill. Pencil. No. 1,372,354; Mar. 22; v. 284; p. 662.
- Keeran, Charles R., and M. M. Kaufmann, assignors, by mesne assignments, to Autopoint Pencil Company, Chicago, Ill. Pencil. No. 1,400,362; Dec. 13.
- Keese, Richard A., Los Angeles, Calif. Tractor-cultivator. No. 1,383,637; July 5; v. 288; p. 78.
- Keesey, John A., Brooklyn, N. Y. Means for operating signaling devices. No. 1,390,040; Sept. 6; v. 290; p. 97.
- Keesler, Clyde C., assignor to Watson Wagon Company, Canastota, N. Y. Trailer-supporting means. No. 1,394,737; Oct. 25.
- Keesler, Clyde C., and F. A. Clock, assignors to Watson Wagon Company, Canastota, N. Y. Fifth-wheel construction. No. 1,397,688; Nov. 22.
- Keeton, Monroe, Meridian, Miss. Safety device for fasteners. No. 1,384,526; July 12; v. 288; p. 312.
- Keegan, Raymond H., Cleveland, Ohio. Waste control for flush-tanks. No. 1,386,785; Aug. 9; v. 289; p. 234.
- Keever, Matthew J., Northampton, Mass. Fastening device. No. 1,377,253; May 10; v. 286; p. 223.
- Keever, Matthew J., Northampton, Mass. Buckle-holder. No. 1,377,254; May 10; v. 286; p. 223.
- Keffer, George D., Hastings, Iowa. Device for separating water from gasoline. No. 1,369,113; Feb. 22; v. 283; p. 580.
- Kegresse, Adolphe, Czarskoie Selo, Russia. Automobile-sleigh suspension. No. 1,392,688; Oct. 4.
- Kehl, George, Chicago, Ill. Game apparatus. No. 1,388,265; Aug. 23; v. 289; p. 237.
- Kehl, George A., St. Paul, Minn. Airplane. No. 1,380,391; June 7; v. 287; p. 13.
- Kehm, August, Chicago, Ill. Radiator. No. 1,383,724; July 5; v. 288; p. 97.
- Kehm, Clarence H. (See Cotton, W. H., and Kehm.)
- Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Vehicle-body. No. 1,364,282; Jan. 4; v. 282; p. 46.
- Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Latch for automobile-hoods. No. 1,364,283; Jan. 4; v. 282; p. 47.
- Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Detachable connecting device. No. 1,376,442; May 3; v. 283; p. 13.
- Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Convertible vehicle-body. No. 1,379,825; May 31; v. 286; p. 912.
- Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Securing device for removable pillars. No. 1,379,826; May 31; v. 286; p. 912.
- Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Oil-gage. No. 1,390,358; Sept. 13; v. 290; p. 252.
- Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Dimmer. No. 1,390,359; Sept. 13; v. 290; p. 252.
- Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Automobile-lock. No. 1,397,524; Nov. 22.
- Kehrer, Chase, Perth Amboy, N. J. Ignition apparatus. No. 1,396,637; Nov. 8.
- Kehres, Jacob, Cleveland, Ohio. Display apparatus. No. 1,365,107; Jan. 11; v. 282; p. 248.
- Kehrman, John F., Bonne Terre, Mo. Railway motor-car. No. 1,401,607; Dec. 27.
- Keiffer, David L., et al. (See White, Ernest M., assignor.)
- Keighler, Walter M., Philadelphia, Pa. Combined air and water heater. No. 1,384,764; July 19; v. 288; p. 443.
- Keigley, Claire T., Lorain, Ohio. Interlock and signal device for coke-oven-door operating and pusher machines. No. 1,368,163; Feb. 8; v. 283; p. 307.
- Keiper, Frank. (See Mee, Charles, assignor.)
- Keiper, Henry B., deceased; L. R. Keiper, N. K. Long, and G. Hammond, executors, assignor to Champion Blower & Forge Company, Lancaster, Pa. Combination-tool. No. 1,377,202; May 10; v. 286; p. 213.
- Keiper, Henry B., deceased; L. R. Keiper, N. K. Long, and G. Hammond, executors, assignors to National Bearings Company, Lancaster, Pa. Thrust ball-bearing. No. 1,390,717; Sept. 13; v. 290; p. 324.
- Keiper, Lucy R., et al., executors. (See Keiper, Henry B.)
- Keith, Darwin E., Fort Worth, Tex. Holder for car and locomotive replacing frogs. No. 1,395,583; Nov. 1.
- Keith, Harold L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,387,990; Aug. 16; v. 289; p. 526.
- Keith, Harold L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,400,077; Dec. 13.
- Keith, Henry M., assignor to Keith Pump Company, West Frankfort, Ill. Pump. No. 1,391,324; Sept. 20; v. 290; p. 510.
- Keith, Herbert J., assignor to Ulfers Manufacturing Company, Freeport, Ill. Lamp-shade holder. No. 1,374,576; Apr. 12; v. 285; p. 278.
- Keith, Irving L. (See Brittain, George E., assignor.)
- Keith, John M., executor. (See Schutt, Richard R.)
- Keith Pump Company. (See Keith, Henry M., assignor.)
- Keith, William J. (See Dunham, William G., assignor.)
- Keithley, Theodore W., Bigtimber, Mont. Saddle attachment. No. 1,397,128; Nov. 15.
- Kelday, Arthur H., London, England. Signaling apparatus for use on road-vehicles. No. 1,397,639; Nov. 22.
- Kelen, Dezsö E., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Refining oxalic acid. No. 1,397,127; Nov. 15.
- Kellin, Albert W. (See White, E. S., and Kellin.)
- Kell, Frank A. (See Ellmann, E. S. Kell, and Zacharias.)
- Kell, Frank A., assignor of one-fourth to W. C. Davison, St. Louis, Mo. Car-mover. No. 1,401,411; Dec. 27.
- Kellan, Edward L., Chicago, Ill. Slow-closing mixing-faucet. No. 1,366,081; Jan. 18; v. 282; p. 477.
- Kellan, Edward L., Chicago, Ill. Flush-valve. No. 1,385,456; July 26; v. 288; p. 660.
- Kellar, James E., Sistersville, W. Va. Well-boring machine. No. 1,392,945; Oct. 11.
- Kelleher, Jeremiah, assignor to Continental Rubber Works, Erie, Pa. Rubber mat. No. 1,401,788; Dec. 27.
- Kelleher, Mary E., Rutland, Vt. Telephone-muffler. No. 1,381,470; June 14; v. 287; p. 269.
- Kellen, Orville W., Fairbanks, Alaska. Wheel and pulley remover. No. 1,367,816; Feb. 8; v. 283; p. 242.
- Kellenberger, Leonard, St. Gallen, Switzerland. Mandrel-press. No. 1,393,789; Oct. 18.
- Keller, Albert A., Milwaukee, Wis. Portable windlass. No. 1,379,990; May 31; v. 286; p. 943.
- Keller, Arnold B., et al., trustees. (See Cameron, William W., assignor.)
- Keller, Arnold B., et al., trustee. (See Lindgren, A. C., and Johnston, assignors.)
- Keller, Arnold B., et al., trustees. (See Lindgren, Alexis C., assignor.)
- Keller, Arnold B., et al., trustees. (See Steward, John F., assignor.)
- Keller, Bela A., assignor of one-third to M. E. Messersmith, Newark, N. J., and one-third to M. E. Stern, New York, N. Y. Treatment of metals and their surfaces. No. 1,393,290; Oct. 11.
- Keller, Bruce B., Scranton, Pa. Safety radius-rod. No. 1,374,016; Apr. 5; v. 285; p. 124.
- Keller, Charles C., East Cleveland, Ohio. Furnace. No. 1,371,490; Mar. 15; v. 284; p. 441.
- Keller-Dorian, Albert, Mülhausen, France. Selecting-screen for polychromatic photography. No. 1,372,515; Mar. 22; v. 284; p. 693.
- Keller, Emil, Vienna, Austria. Flexible paper tubing. No. 1,388,467; Aug. 23; v. 289; p. 679.
- Keller, Ferdinand, Jr. (See Schick, George A., assignor.)
- Keller, Fred, Jr., Pittsburgh, Pa. Rotary internal-combustion engine. No. 1,401,478; Dec. 27.
- Keller, Fred W. (See Keller, John O., assignor.)
- Keller, George W., Portsmouth, Ohio. Exhaust-nozzle. No. 1,380,806; June 7; v. 287; p. 93.
- Keller, Herman A., assignor to Kabo Corset Company, Chicago, Ill. Cushioned button for garment-supporters. No. 1,366,388; Jan. 25; v. 282; p. 580.
- Keller, Huldreich, deceased, by K. Keller, administratrix, assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Composite gear-wheel. No. 1,383,816; July 5; v. 288; p. 116.
- Keller, Jakob, Zurich, Switzerland. Machine for glossing linen and the like. No. 1,381,471; June 14; v. 287; p. 269.
- Keller, James C., assignor of one-third to J. E. Reece and one-third to W. L. Reece, Butler, Tenn. Twin-mill-controlling device. No. 1,368,806; Feb. 15; v. 283; p. 481.
- Keller, John F., Pearl, Ill. Dirigible vehicle-light. No. 1,380,972; June 7; v. 287; p. 125.
- Keller, John G., assignor to The Vilter Manufacturing Company, Milwaukee, Wis. Steam-engine. No. 1,399,832; Sept. 6; v. 290; p. 55.
- Keller, John J. (See Paul, James M., assignor.)
- Keller, John O., Cincinnati, Ohio, assignor of one-half to F. W. Keller, Covington, Ky. Egg-tester. No. 1,374,577; Apr. 12; v. 285; p. 273.
- Keller, John W., Stanhope, N. J. Attachment for sliding doors. No. 1,372,514; Mar. 22; v. 284; p. 693.
- Keller, Joseph, Buffalo, New York. Buffing-machine. No. 1,392,172; Sept. 27; v. 290; p. 754.
- Keller, Joseph F., New York, N. Y. Reproducing-machine for making aeroplane-propellers and the like. No. 1,379,267; May 24; v. 286; p. 733.
- Keller, Karl O., Sunderland, assignor of one-half to R. P. Duxford, Sunderland, Durham, England. Reciprocating pump and the like. No. 1,385,005; July 19; v. 288; p. 493.
- Keller, Karl O., assignor of one-half to R. P. Duxford, Sunderland, England. Internal-combustion engine. No. 1,393,626; Oct. 11.
- Keller, Karl O., Durham, assignor of one-half to R. P. Duxford, Pallior Yard, Sunderland, England. Variable-lift fuel-valve for oil-engines. No. 1,396,935; Nov. 15.



## Alphabetical list of patentees—Continued.

- Keller, Karl O., assignor of one-half to R. P. Doxford, Sunderland, Durham, England. Fuel-spraying nozzle for internal-combustion engines. No. 1,401,911; Dec. 27.
- Keller, Katharina, administratrix. (See Keller, Huldreich.)
- Keller, Nardo C., East Cleveland, assignor to The Eagle Laundry, Cleveland, Ohio. Towel-holder. No. 1,367,817; Feb. 8; v. 283; p. 242.
- Keller, Otto. (See Williams, Harry S., assignor.)
- Keller, Otto A., *et al.* (See Williams, Harry S., assignor.)
- Keller Pneumatic Tool Company. (See Keller, W. H., and Schinkez, assignors.)
- Keller, William H., and A. Schinkez, assignors to Keller Pneumatic Tool Company, Grand Haven, Mich. Percussion-tool. No. 1,387,493; Aug. 16; v. 289; p. 427.
- Keller, William H., and A. Schinkez, assignor to Keller Pneumatic Tool Company, Grand Haven, Mich. Piston-rod toggle for fluid-pressure motors. No. 1,398,327; Nov. 29.
- Keller, William H., and A. Schinkez, assignors to Keller Pneumatic Tool Company, Grand Haven, Mich. Piston-rod toggle for fluid-pressure motors. No. 1,398,328; Nov. 29.
- Kelley, Benjamin F., assignor of one-sixth to D. D. Myers, one-sixth to J. H. Kountz, one-sixth to C. C. Lemon, Tulsa, Okla., and one-sixth to W. K. Hughes, St. Louis, Mo. Well-tubing catcher. No. 1,367,399; Feb. 1; v. 283; p. 103.
- Kelley, Cott C., Worcester, Mass., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Furnace-eyesight. No. 1,376,550; May 3; v. 286; p. 32.
- Kelley, Edward F., assignor to The Raybestos Company, Bridgeport, Conn. Clevis. No. 1,393,379; Oct. 11.
- Kelley, Floyd C., Schenectady, N. Y., assignor to General Electric Company. Surface-alloyed metal. No. 1,365,499; Jan. 11; v. 282; p. 324.
- Kelley, George A., Burlington, Kans. Game. No. 1,395,643; Nov. 1.
- Kelley, Harriet E., Denver, Colo. Coat-hanger. No. 1,379,105; May 24; v. 286; p. 702.
- Kelley, Isaac N., *et al.* (See Mullins, John C., Jr., assignor.)
- Kelley, John, Sandusky, Ohio. Railway-tie. No. 1,367,400; Feb. 1; v. 283; p. 103.
- Kelley, John M., Rochester, N. Y. Pump. No. 1,393,138; Oct. 11.
- Kelley, Joseph P., Meade, Kans. Signal. No. 1,368,400; Feb. 15; v. 283; p. 401.
- Kelley, Louis P., Center Harbor, N. H. Artificial trolling-bait. No. 1,368,939; Feb. 15; v. 283; p. 506.
- Kelley, Margaret, Los Angeles, Calif., assignor, by mesne assignments, to Automatic Flatwork Folder Company. Machine for folding fabric articles. No. 1,376,942; May 3; v. 286; p. 107.
- Kelley, Patrick J., Detroit, Mich. Trolley guard and fender. No. 1,391,191; Sept. 20; v. 290; p. 482.
- Kelley, Paul V., Everett, Wash. Folding table and lunch-case for automobiles. No. 1,378,355; May 17; v. 286; p. 486.
- Kelley, Sabina. (See Bailey, J., and Kelley.)
- Kelley, Solomon J., Binghamton, N. Y. Separator for metal and wood sawdust. No. 1,376,019; Apr. 26; v. 285; p. 644.
- Kelley, Thomas. (See Hartley, F., and Kelley.)
- Kelley Ticket Machine Company. (See Armitage, George H., assignor.)
- Kelling, Gustave C., Chicago, Ill. Peanut-blancher. No. 1,388,574; Aug. 23; v. 289; p. 698.
- Kelling, Gustave C., Chicago, Ill. Feeding mechanism. No. 1,394,908; Oct. 25.
- Kelling, John. (See Schroedter, J. O., and Kelling.)
- Kellington, John, Vancouver, British Columbia, Canada. Depth-filled gaging-machine for cans. No. 1,399,214; Dec. 6.
- Kellner, Henry F., Silver Lake, Kans. Silt-accumulator. No. 1,389,513; Aug. 30; v. 289; p. 939.
- Kellner, Louis, Brooklyn, N. Y. Electric switch. No. 1,376,701; May 3; v. 286; p. 60.
- Kellner, Louis, Brooklyn, N. Y. Electric switch. No. 1,377,778; May 10; v. 286; p. 324.
- Kellogg, Albert A., Kansas City, Mo. Aeroplane. No. 1,377,490; May 10; v. 286; p. 269.
- Kellogg, Charles B., assignor of one-half to E. U. Knight, Chicago, Ill. Display device and forming same. No. 1,385,834; July 26; v. 288; p. 738.
- Kellogg, Daniel P., Los Angeles, Calif. Tie-plate. No. 1,367,551; Feb. 8; v. 283; p. 191.
- Kellogg, Hosford D., Haverford, Pa. Radiator. No. 1,371,031; Mar. 8; v. 284; p. 288.
- Kellogg, James L., New York, N. Y. Kindergarten apparatus. No. 1,385,623; July 26; v. 288; p. 695.
- Kellogg, Lewis M., South Pasadena, Calif. Cascade-amalgamator. No. 1,386,875; Aug. 9; v. 289; p. 253.
- Kellogg, Luke L., Fredonia, N. Y. Automobile-lifter. No. 1,392,338; Oct. 4.
- Kellogg, M. W., Co., The. (See Pratt, William A., assignor.)
- Kellogg, Miles M., Encinitas, Calif. Fountain paint-brush. No. 1,376,702; May 3; v. 286; p. 60.
- Kellogg, Paul M., Detroit, Mich. Journal-feeler. No. 1,369,032; Feb. 22; v. 283; p. 564.
- Kellogg Switchboard & Supply Co. (See Sparks, Charles, assignor.)
- Kellogg Switchboard & Supply Company. (See Dyson, Alfred H., assignor.)
- Kellogg Switchboard and Supply Company. (See Ericson, Lawrence, assignor.)
- Kellogg Switchboard and Supply Company. (See Ide, Harry H., assignor.)
- Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.)
- Kellogg Switchboard & Supply Company. (See Mueller, George E., assignor.)
- Kellogg Switchboard & Supply Company. (See Schoenwolf, Fred, assignor.)
- Kellogg Switchboard and Supply Company. (See Utter, Richard I., assignor.)
- Kellogg Switchboard & Supply Company. (See Webster, Harry G., assignor.)
- Kellogg Switchboard and Supply Company. (See Weiss, Alfred H., assignor.)
- Kellogg Switchboard and Supply Company. (See Yano chowski, George A., assignor.)
- Kellogg Toasted Corn Flake Co. (See McKay, Eugene H., assignor.)
- Kellogg, W. L. (See Alquist, S. P., and Barrows, assignors.)
- Kells, Charles E., New Orleans, La. Water-distilling apparatus. No. 1,366,465; Jan. 25; v. 282; p. 597.
- Kells, Charles E., New Orleans, La. Water-distilling apparatus. No. 1,379,631; May 31; v. 286; p. 876.
- Kellum, Charles S., Detroit, Mich. Petcock and making same. No. 1,367,605; Feb. 8; v. 283; p. 201.
- Kellum, Charles S., assignor to Commonwealth Brass Corporation, Detroit, Mich. Valve. No. 1,375,967; Apr. 26; v. 285; p. 634.
- Kellum, Margaret E., Buffalo, N. Y. Invalid's bed. No. 1,368,211; Feb. 8; v. 283; p. 317.
- Kelly, Andrew, London, England. Manufacture of acid sodium pyrophosphate. No. 1,383,990; July 5; v. 288; p. 152.
- Kelly, Bernard H. (See Law, John, assignor.)
- Kelly Button Machine Company. (See Kelly, John, assignor.)
- Kelly, Clarence H. (See Harper, Edward W., assignor.)
- Kelly, Dugald J., Johnston City, Ill. Railway switch-throw and mine switch-throw. No. 1,391,547; Sept. 20; v. 290; p. 555.
- Kelly, Edgar C. (See Wood, C. W., and Kelly.)
- Kelly, Edward C., Boston, Mass. Oil-separator trap. No. 1,400,441; Dec. 13.
- Kelly Filter Press Co. (See McCaskell, Jasper A., assignor.)
- Kelly, James. (See Madsen, D. E., and Kelly.)
- Kelly, James G., A. L. Pringle and H. Hall, Sedalia, Mo. Bearing metal. No. 1,376,339; Apr. 26; v. 285; p. 705.
- Kelly, James P., New York, N. Y. Cord-tip. No. 1,392,339; Oct. 4.
- Kelly, James W., Chicago, Ill. Fire-extinguisher. No. 1,371,689; Mar. 15; v. 284; p. 479.
- Kelly, James W., Chicago, Ill. Piston-packing disks. No. 1,399,060; Dec. 6.
- Kelly, Jerry H., Chicago, Ill., and T. W. Prosser, Beaver Dam, Wis., assignors to Paramount Hosiery Form Drying Co., Chicago, Ill. Apparel apparatus. No. 1,364,380; Jan. 4; v. 282; p. 64.
- Kelly, Jesse C., Madison Place, Ohio. Hydrocarbon-oil vaporizer and burner. No. 1,365,108; Jan. 11; v. 282; p. 248.
- Kelly, John, assignor to Kelly Button Machine Company, Inc., Norfolk, Va. Button-feeding instrumentality for button-setting machines. No. 1,398,026; Nov. 22.
- Kelly, John, assignor to Kelly Button Machine Company, Inc., Norfolk, Va. Button-setting machine. No. 1,398,027; Nov. 22.
- Kelly, John A. (See Denmuth, Alfred M., assignor.)
- Kelly, John A., Graftree, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,396,124; Nov. 8.
- Kelly, John F., Pittsfield, Mass. Desiccating food. No. 1,393,540; Oct. 11.
- Kelly, John F., and E. S. Thompson, assignors to Thomas Maddock's Sons Company, Trenton, N. J. Bidet. No. 1,369,283; Feb. 22; v. 283; p. 612.
- Kelly, John H., New Orleans, La. Illuminated sign. No. 1,390,561; Sept. 13; v. 290; p. 293.
- Kelly, John J., Holyoke, Mass. Calendar. No. 1,373,744; Apr. 5; v. 285; p. 70.
- Kelly, John L., New York, N. Y. Mouth-cleaning device. No. 1,371,790; Mar. 15; v. 284; p. 498.
- Kelly, John M., Manitowoc, Wis. Bag-cleaning apparatus. No. 1,388,722; Aug. 23; v. 289; p. 727.
- Kelly, John R. (See Fairbanks, L. J., and Kelly.)
- Kelly, John R., *et al.* (See Hibbard, L., Richard, assignor.)
- Kelly, Joseph A. (See Kelly, Thomas F., assignor.)
- Kelly, Joseph N., Dayton, Ohio. Steering-gear. No. 1,378,680; May 17; v. 286; p. 549.
- Kelly, Joseph N., Dayton, Ohio. Steering mechanism. No. 1,386,710; Aug. 9; v. 289; p. 219.
- Kelly, Joseph P., Belington, W. Va. Journal-box. No. 1,380,214; May 31; v. 286; p. 985.
- Kelly, Leo A., Houston, Tex. Printing-case. No. 1,387,007; Aug. 9; v. 289; p. 279.
- Kelly, Leo I., Detroit, Mich. Power plant. No. 1,390,562; Sept. 13; v. 290; p. 293.



- Kelly, Martha E., Mill Hall, Pa. Scrub-brush. No. 1,398,865; Nov. 29.
- Kelly, Martha R., Laredo, Tex. Cereal food and preparing the same. No. 1,395,831; Nov. 1.
- Kelly, Oliver S., New York, N. Y., assignor to The National Gauge and Equipment Company, La Crosse, Wis. Cap for tank-filler openings. No. 1,382,598; June 21; v. 287; p. 543.
- Kelly, Orson N., Dallas, Tex. Collar fastener or clasp. No. 1,382,512; June 21; v. 287; p. 526.
- Kelly, Orson N., Dallas, Tex. Collar fastener or clasp. No. 1,382,513; June 21; v. 287; p. 526.
- Kelly, Orson N., Dallas, Tex. Collar fastener or clasp. No. 1,382,514; June 21; v. 287; p. 527.
- Kelly, Orson N., Dallas, Tex. Collar fastener or clasp. No. 1,382,515; June 21; v. 287; p. 527.
- Kelly, Pascal M., Dalhart, Tex. Spur. No. 1,397,966; Nov. 22.
- Kelly, Robert E., Jacksonville, Fla. Back-brace. No. 1,371,690; Mar. 15; v. 284; p. 479.
- Kelly Springfield Tire Co. (See McClenathen R., assignor.)
- Kelly Springfield Tire Co. (See McClenathen, R., and Noall, assignors.)
- Kelly-Springfield Tire Company. (See Hulse, Edison G., assignor.)
- Kelly-Springfield Tire Company, The. (See Mackintosh, William M., assignor.)
- Kelly-Springfield Tire Company. (See Marshall, Thomas C., assignor.)
- Kelly-Springfield Tire Company. (See Walton, Charles L., assignor.)
- Kelly, Thomas, Poulton-Wallasey, England. Ball-caster. No. 1,375,394; Apr. 19; v. 285; p. 492.
- Kelly, Thomas F., assignor of one-half to J. A. Kelly, Clinton, Iowa. Bed-davenport. No. 1,381,843; June 14; v. 287; p. 340.
- Kelly, Thomas J., Ashkum, Ill. Clutch. No. 1,384,324; July 12; v. 288; p. 270.
- Kelly, Thomas J., Philadelphia, Pa. Folding-bed structure. No. 1,386,628; Aug. 9; v. 289; p. 202.
- Kelly-Walker, Rosena. (See Clendenning, William L., assignor.)
- Kelly, Walter, Boston, Mass. Paint-gun. No. 1,386,508; Aug. 2; v. 289; p. 106.
- Kelly, Walter J., St. Louis, Mo. Metallic seal. No. 1,397,101; Nov. 15.
- Kelly, William F., Syracuse, N. Y. Screw-stem lubricator. No. 1,367,482; Feb. 1; v. 283; p. 119.
- Kelly, William H., San Francisco, Calif. Stereopticon. No. 1,400,958; Dec. 20.
- Kelly, William J. (See Bedford, C. W., and Kelly.)
- Kelly, William M., Jersey City, N. J. Paper-feeding mechanism. No. 1,401,707; Dec. 27.
- Kelsall, Rachel, Wimbledon Park Road, England. Work-box for domestic use. No. 1,382,188; June 21; v. 287; p. 464.
- Kelsea, Clarence H., Belmont, Mass. Valve mechanism for oil-cans. No. 1,380,973; June 7; v. 287; p. 125.
- Kelsey, George M., Grand Forks, N. D. Spring suspension for vehicles. No. 1,391,192; Sept. 20; v. 290; p. 483.
- Kelsey, Jack M., Brea, Calif. Cable-guard for tackle-blocks. No. 1,379,868; May 31; v. 286; p. 920.
- Kelsey Wheel Company. (See Booth, William N., assignor.)
- Kelsey Wheel Company. (See Campbell, Malcolm G., assignor.)
- Kelsey, William A. (See Galland, C. N., and Kelsey.)
- Kelsey, William A., Minneapolis, Minn. Dental tool. No. 1,385,747; July 26; v. 288; p. 720.
- Kelso, Joseph, assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-operating mechanism. No. 1,372,233; Mar. 22; v. 284; p. 639.
- Kelso, Ralph S. (See Moffatt, J. R., and Kelso.)
- Kelso, Ralph S., assignor to Union Special Machine Company, Chicago, Ill. Hook-needle mechanism for sewing-machines. No. 1,364,997; Jan. 11; v. 282; p. 228.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Pipe-carrier for railway-cars. No. 1,366,187; Jan. 18; v. 282; p. 497.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling-operating mechanism. No. 1,372,234; Mar. 22; v. 284; p. 639.
- Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Coupling and yoke connection. No. 1,399,563; Dec. 6.
- Kelso, William H., San Francisco, Calif. Gas-heater. No. 1,377,890; May 10; v. 286; p. 346.
- Keltner, Amos L., Eldorado, Kans. Chain-fastener. No. 1,374,579; Apr. 12; v. 285; p. 274.
- Keltner, Henry O., et al. (See Bell, Lorenzo W., assignor.)
- Keltner, Russell, et al. (See Bell, Lorenzo W., assignor.)
- Kelvinator Corporation. (See De Luiz, Edward R., assignor.)
- Kelvinator Corporation. (See Denny, James H., assignor.)
- Kemble, Charles P., assignor of one-half to A. C. Harding, Chicago, Ill. Severing blooms. No. 1,366,693; Jan. 25; v. 282; p. 642.
- Kemble, Thomas S., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Exhaust-valve spring. No. 1,368,439; Feb. 15; v. 283; p. 409.
- Kemble, Thomas S., Cleveland, Ohio. Means for controlling lubrication of engines. No. 1,388,345; Aug. 23; v. 289; p. 654.
- Kemnal, James, Chislehurst, and J. Henry, London, England, assignors to The Babcock & Wilcox Company, Bayonne, N. J. Soot-blowing device. No. 1,377,622; May 10; v. 286; p. 293.
- Kemp, Edward, assignor of one-third to G. W. Morley, Toronto, Ontario, Canada. Vehicle-wheel. No. 1,383,991; July 5; v. 288; p. 152.
- Kemp, Edward R. (See Kotzebue, Meinhard H., assignor.)
- Kemp, Ernest, Clapham Common, England. Illuminating-sign for automobiles. No. 1,385,006; July 19; v. 288; p. 493.
- Kemp, John L., Charleston, S. C. Bow-facing oar. No. 1,381,923; June 21; v. 287; p. 416.
- Kemp, Nicklos S., and H. J. Kauth, Washburn, Iowa. Rail connection. No. 1,396,043; Nov. 8.
- Kemp, Richard. (See Seel, P. C., Combs, and Kemp.)
- Kemp, Robert, Washington, D. C., assignor to Westinghouse Electric & Manufacturing Company. Structural element. No. 1,393,541; Oct. 11.
- Kemper, Charles W. and J. T., Oakland, Calif. Cable-clamp. No. 1,366,007; Jan. 18; v. 282; p. 463.
- Kemper, John T. (See Kemper, Charles W. and J. T.)
- Kemper, Robert E., Rensselaer, N. Y. Sheet-feeding machine. No. 1,387,494; Aug. 16; v. 289; p. 427.
- Kemper Thomas Company, The. (See Henderson, Edwin L., assignor.)
- Kemper, William H., Montgomery, Ala. Tractor. No. 1,364,767; Jan. 4; v. 282; p. 139.
- Kemper, Windom L. (See Mueller, Theodore C., assignor.)
- Kemper, Windom L., Topeka, Kans. Tire. No. 1,385,252; July 19; v. 288; p. 543.
- Kempkey, Augustus, Brentwood, Calif. Irrigation gate-post. No. 1,394,023; Oct. 18.
- Kempsmith Manufacturing Co., The. (See Goetz, J., and Parsons, assignors.)
- Kempton, Harrison D., Providence, R. I. Holder for safety-razor blades. No. 1,382,292; June 21; v. 287; p. 484.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Composite rod and method of forming it. No. 1,370,023; Mar. 1; v. 284; p. 51.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Oil-ring. No. 1,384,470; July 12; v. 288; p. 300.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mold for micarta tubes, rods, and the like. No. 1,386,003; Aug. 2; v. 289; p. 8.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Reinforced tube and making it. No. 1,389,143; Aug. 30; v. 289; p. 866.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Composite molding. No. 1,392,173; Sept. 27; v. 290; p. 755.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Composite molding. No. 1,392,174; Sept. 27; v. 290; p. 755.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molded tube. No. 1,400,078; Dec. 13.
- Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Commutator-cylinder. No. 1,401,708; Dec. 27.
- Kempton, William H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Molded article and making the same. No. 1,370,024; Mar. 1; v. 284; p. 51.
- Kendalite Company. (See Kendall, James P., assignor.)
- Kendall, Carl W., Edgewater Heights, N. J., assignor to Columbia Machine & Stopper Co., Inc., New York, N. Y. Feeding device for sealing-disks. No. 1,398,724; Nov. 29.
- Kendall, Donald S. (See Novotny, E. E., and Kendall.)
- Kendall, Edward C., Rochester, Minn. Thyroid substance and making it. No. 1,392,768; Oct. 4.
- Kendall, Edward C., Rochester, Minn., assignor to University of Minnesota. Thyroid product and preparing the same. No. 1,392,767; Oct. 4.
- Kendall, James P., assignor, by mesne assignments, to Kendalite Company, Inc., New York, N. Y. Generating and utilizing hydrocarbon vapors or gases. No. 1,376,100; Apr. 26; v. 285; p. 660.
- Kendall, Myron A., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill. Uniformly-distributing tripper. No. 1,375,704; Apr. 26; v. 285; p. 584.
- Kendall, William G., Newark, N. J. Sifter-top for powder-cans. No. 1,365,246; Jan. 11; v. 282; p. 275.
- Kendall, William G., Newark, N. J. Powder-puff. No. 1,374,746; Apr. 12; v. 285; p. 305.
- Kendall, William G., Newark, N. J. Rouge-pad. No. 1,375,705; Apr. 26; v. 285; p. 584.
- Kendall Products Corporation. (See Pearson, Herbert P., assignor.)
- Kendel, George, McNutt, Saskatchewan, Canada. Drag-harrow cleaner. No. 1,383,403; July 5; v. 288; p. 30.



## Alphabetical list of patentees—Continued.

- Kendrek, Stanley, Lawrence, Mass. Vegetable slicing and cutting machine. No. 1,373,135; Mar. 29; v. 284; p. 857.
- Kendrick, Arthur, Newton, assignor to International Equipment Company, Boston, Mass. Laundry-drier. No. 1,398,490; Nov. 29.
- Kendrick, Karl A., Detroit, Mich. Dirigible headlight. No. 1,387,273; Aug. 9; v. 289; p. 330.
- Kendrick, Matthew B., Louisville, Ky. Paving material and making same. No. 1,371,032; Mar. 8; v. 284; p. 288.
- Kendrick, Solomon, Chelsea, assignor to Everlastik, Incorporated, Boston, Mass. Needle-loom. No. 1,391,958; Sept. 27; v. 290; p. 711.
- Kenkel, John E., Great Falls, Mont. Toothpick-dispensing device. No. 1,371,173; Mar. 8; v. 284; p. 314.
- Kennaley, William M., Danbury, Iowa. Fence-stretcher. No. 1,370,318; Mar. 1; v. 284; p. 107.
- Kennard, Edward M. (See Finch, S. W., and Kennard.)
- Kennard, Harold J., Easton, Pa., assignor to Research Corporation, New York, N. Y. Apparatus for the electrical treatment of gases. No. 1,394,771; Oct. 25.
- Kennard, Jefferson D., San Francisco, Calif. Aeroplane safety device. No. 1,367,483; Feb. 1; v. 283; p. 119.
- Kennedy, Alfred. (See Mawson, Benjamin, and Kennedy.)
- Kennedy, Andrew J., Chicago, Ill. Separable cuff-button. No. 1,384,529; July 12; v. 288; p. 313.
- Kennedy, Angus, London, England. Hydraulic back-pressure valve. No. 1,367,189; Feb. 1; v. 283; p. 61.
- Kennedy, Benjamin H., *et al.* (See Kennedy, Benjamin H., assignor.)
- Kennedy, Benjamin H., assignor, by mesne assignments, to B. H. Kennedy and D. M. Kennedy, Rochester, N. Y. Folding crib. No. 1,373,821; Apr. 5; v. 285; p. 86.
- Kennedy, Carlton L., South Braintree, assignor to The Holtzer-Cabot Electric Company, Roxbury, Mass. Motor-generator system. No. 1,367,319; Feb. 1; v. 283; p. 87.
- Kennedy, Charles W. (See Wright, H. A., and Kennedy.)
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,367,606; Feb. 8; v. 283; p. 201.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,380,807; June 7; v. 287; p. 93.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,386,786; Aug. 9; v. 289; p. 234.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical distributing-machine. No. 1,387,495; Aug. 16; v. 289; p. 427.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,396,125; Nov. 8.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,396,126; Nov. 8.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,397,967; Nov. 22.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical distributing-machine. No. 1,397,968; Nov. 22.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,397,969; Nov. 22.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Keyboard mechanism for typographical machines. No. 1,397,970; Nov. 22.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,397,971; Nov. 22.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical distributing-machine. No. 1,397,972; Nov. 22.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing-machine. No. 1,397,973; Nov. 22.
- Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,397,974; Nov. 22.
- Kennedy, Dewey M., *et al.* (See Kennedy, Benjamin H., assignor.)
- Kennedy, Ernest N., Birchwood, Sunningdale, England. Razor-blade holder. No. 1,394,909; Oct. 25.
- Kennedy, Frank J., Ambridge, and H. Scheiding, Homestead, Pa. Curtain-fixture. No. 1,373,333; Mar. 29; v. 284; p. 896.
- Kennedy, Franklin K., Jr., U. S. Army. Gun-sling. No. 1,383,125; June 28; v. 287; p. 697.
- Kennedy, George C., Waterloo, Iowa. Impermeable reservoir. No. 1,375,758; Apr. 26; v. 285; p. 593.
- Kennedy, George C., Waterloo, Iowa. Feeding device. No. 1,380,564; June 7; v. 287; p. 45.
- Kennedy, Gussie M. (See Kennedy, Homer R., assignor.)
- Kennedy, Harry E. (See Mulvany, H. A., and Kennedy.)
- Kennedy, Homer R., assignor to G. M. Kennedy, Los Angeles, Calif. Metal-working tool. No. 1,367,818; Feb. 8; v. 283; p. 242.
- Kennedy, Howard A., Latonia, Ky. Bearing-scraper. No. 1,365,174; Jan. 11; v. 282; p. 261.
- Kennedy, James G., assignor of one-half to W. H. Brown, Chicago, Ill. Nut-blanching machine. No. 1,367,664; Feb. 8; v. 283; p. 212.
- Kennedy, James S., Yonkers, N. Y. Timing device. No. 1,367,148; Feb. 1; v. 283; p. 53.
- Kennedy, John E., Glens Falls, N. Y., assignor to The Willys-Overland Company, Toledo, Ohio. Means for measuring vibrations. No. 1,397,525; Nov. 22.
- Kennedy, John F., assignor to Delion Tire and Rubber Company, Baltimore, Md. Adjustable banding-board. No. 1,397,763; Nov. 22.
- Kennedy, John H. (See Maher, P. L., Schmidt, and Kennedy.)
- Kennedy, John W., Seneca Falls, assignor to Kiddie-Town Products, Inc., Rochester, N. Y. Folding crib. No. 1,394,625; Oct. 25.
- Kennedy, Joseph, Richmond Hill, assignor to J. Edward Ogden, Mountainville, N. Y. Spring toggle-bolt. No. 1,370,319; Mar. 1; v. 284; p. 107.
- Kennedy, Joseph E., New York, N. Y. Driving mechanism for crushers. No. 1,385,687; July 26; v. 288; p. 708.
- Kennedy, Joseph E., New York, N. Y. Apparatus for cutting fruits, vegetables, and the like. No. 1,395,425; Nov. 1.
- Kennedy, Joseph E., New York, N. Y. Apparatus for cutting vegetables and the like. No. 1,395,426; Nov. 1.
- Kennedy, Millard B. and V. C., Canton, S. D. Computing-machine. No. 1,400,363; Dec. 13.
- Kennedy, Otis M., Philadelphia, Pa. Dust-cleaning suction-pump. No. 1,401,789; Dec. 27.
- Kennedy, Otis M., Philadelphia, Pa., assignor to The Cunningham Piano Company. Player-piano. No. 1,379,926; May 31; v. 286; p. 931.
- Kennedy, Robert G., deceased, Sidney, Vancouver Island, Canada; The Royal Trust Company, executor and trustee of the will. Device for controlling a supply of water for irrigation or other purposes. No. 1,388,723; Aug. 23; v. 289; p. 727.
- Kennedy, Thomas J., Wyncote, Pa. Reflecting apparatus. No. 1,365,247; Jan. 11; v. 282; p. 275.
- Kennedy, Verne C. (See Kennedy, Millard B. and V. C.)
- Kennedy, Walter, Pittsburgh, Pa. Cover for soaking-pits and mechanism for shifting same. No. 1,398,900; Nov. 29.
- Kennedy, William A., Leonia, N. J., and A. J. Mottlau, Far Rockaway, N. Y.; said Mottlau assignor to said Kennedy. Multiple-unit electric heater. No. 1,395,584; Nov. 1.
- Kennedy, William H., assignor of one-half to Swivel Hose Coupling Company, Chicago, Ill. Hose-coupling. No. 1,372,297; Mar. 22; v. 284; p. 652.
- Kennedy, William H., assignor of one-half to L. B. Miller, Chicago, Ill. Riveting-machine. No. 1,382,293; June 21; v. 287; p. 484.
- Kennerly, John N. (See Kennerly, Thomas T., assignor.)
- Kennerly, Thomas T., Grayson, assignor of one-half to J. N. Kennerly, Atlanta, Ga. Pea-thresher. No. 1,373,334; Mar. 29; v. 284; p. 897.
- Kenneweg, Albert H., Brooklyn, N. Y. Port-light. (Re-issue.) No. 15,181; Aug. 23; v. 289; p. 750.
- Kenney, Harry J., Seattle, Wash. Trolling-spinner. No. 1,393,790; Oct. 18.
- Kenney, William J. (See Davidson, C. J., and Kenney.)
- Kenney, William J. (See Nordell, Carl H., assignor.)
- Kennison, Karl R., Boston, Mass. Bilge-block. No. 1,385,487; July 26; v. 288; p. 667.
- Kennon, Charles W., Tampa, assignor of one-half to W. W. Pemble, Leesburg, Fla. Cinder-guard. No. 1,393,627; Oct. 11.
- Kenny, Albert. (See Ostberg, A. J., and Kenny.)
- Kenny, Walter R., Ontario, Canada. Sound-reproducing machine. No. 1,390,041; Sept. 6; v. 290; p. 97.
- Kenosha Wheel and Axle Company. (See Whitcomb, J. A., and Koehler, assignors.)
- Kenosha Wheel & Axle Company. (See Winther, Martin P., assignor.)
- Kenrich, Charles H. (See Snyder, O. K., and Kenrich.)
- Kenrick, Auston, Evansville, Ind. Overalls. No. 1,366,809; Jan. 25; v. 282; p. 665.
- Kent, Arthur A., Ardmore, Pa. Prismatic telescope. No. 1,364,381; Jan. 4; v. 282; p. 64.
- Kent, Arthur A., Ardmore, Pa. Contact device. (Re-issue.) No. 15,128; June 21; v. 287; p. 545.
- Kent, Arthur A., Ardmore, Pa. Induction-coil-heat-dissipating structure. No. 1,385,624; July 26; v. 288; p. 695.
- Kent, Arthur A., Ardmore, Pa. Distributer structure. No. 1,385,625; July 26; v. 288; p. 695.
- Kent, Arthur A., Ardmore, Pa. Ignition timer structure. No. 1,385,626; July 26; v. 288; p. 696.
- Kent, Arthur A., Rosemont, Pa. Electric contact device. No. 1,395,427; Nov. 1.
- Kent, Arthur A., Ardmore, assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Induction-coil structure. No. 1,391,256; Sept. 20; v. 290; p. 496.
- Kent, Bertha G., administratrix. (See Kent, George H.)
- Kent, Burton M., Sayre, Pa., assignor of one-half to E. M. Ragan, Binghamton, N. Y. Locking device. (Reissue.) No. 15,110; May 24; v. 286; p. 796.



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- Kent, Charles E., assignor of one-fourth to W. L. Bowers, Los Angeles, Calif. Hook. No. 1,389,833; Sept. 6; v. 290; p. 55.
- Kent, Clarence H. (See Percy, C., and Mills, assignors.)
- Kent, Franklin P., Lyons, Kans. Harp. No. 1,401,158; Dec. 27.
- Kent, George H., deceased, Watertown, Mass., B. G. Kent, administratrix. Deposit-book. No. 1,389,561; Aug. 30; v. 289; p. 949.
- Kent, Horace L., Brooklyn, N. Y. Gas-engine carbureter. No. 1,371,562; Mar. 15; v. 284; p. 455.
- Kent, John T., Detroit, Mich. Table-top. No. 1,382,983; June 28; v. 287; p. 670.
- Kent, Joseph, Maldon, England. Production of bores in glass. No. 1,382,650; June 28; v. 287; p. 607.
- Kent-Norris, Henry, Newbury, England. Means for supplying liquid fuel to the cylinders of internal-combustion engines. No. 1,378,176; May 17; v. 286; p. 453.
- Kent, Robert F., Fannettsburg, Pa. Rat-trap. No. 1,399,965; Dec. 13.
- Kent, William J., assignor to The Mechanical Rubber Company, Brooklyn, N. Y. Ear-shield. No. 1,367,746; Feb. 8; v. 283; p. 228.
- Kent, William J., New York, N. Y., assignor to The Mechanical Rubber Company. Machine for trimming flashed edges on binding. No. 1,382,651; June 28; v. 287; p. 607.
- Kentowski & Company. (See Lizak, August S., assignor.)
- Kentucky Derby Co. (See Wortmann, Franz E., assignor.)
- Kentucky Switch & Signal Co. (See Scoggin, Richard R., assignor.)
- Kentworthy, Samuel P. (See Lungren, John F., assignor.)
- Kenworthy, Charles F., Waterbury, Conn. Furnace. No. 1,388,575; Aug. 23; v. 289; p. 698.
- Kenyon, C., Company Inc. (See Phelps, Harry E., assignor.)
- Kenyon, Roy A., Newcastle, Ind. Thread-gage. No. 1,395,231; Oct. 25.
- Keo Manufacturing Company. (See Kintzele, Julius H. and F. P., assignors.)
- Keogan, Richard C., South Bend, Ind. Concrete-wall mold. No. 1,400,682; Dec. 20.
- Keogan, Richard C., South Bend, Ind. Window-sash. No. 1,400,683; Dec. 20.
- Keogh, Thomas B., and L. F. Caumont, New York, N. Y. Seesaw and toy vehicle. No. 1,396,437; Nov. 8.
- Keough, Edwin E., assignor of one-half to H. M. Goldberg, San Francisco, Calif. Automobile-radiator-cap lock. No. 1,367,819; Feb. 8; v. 283; p. 243.
- Keough, James G., Brookville, Pa. Lubricator. No. 1,367,149; Feb. 1; v. 283; p. 53.
- Keough, Robert E., Montreal, Quebec, Canada. Anticreeping device for railway-rails. No. 1,372,956; Mar. 29; v. 284; p. 822.
- Keough, Robert E., Montreal, Quebec, Canada. Railway-frog. No. 1,389,144; Aug. 30; v. 289; p. 866.
- Keown, John H., Ord, Nebr. Shocker attachment for harvester-binders. No. 1,371,902; Mar. 15; v. 284; p. 519.
- Kephart, Calvin I., Portland, Oreg. Lathe attachment for boring and grinding cylinders. No. 1,388,576; Aug. 23; v. 289; p. 698.
- Kephart, Harmon M. (See Seese, Samuel R., assignor.)
- Kepler, George G., assignor of one-half to H. D. Saylor, Pottstown, Pa. Puller for crank-pins, &c. No. 1,393,026; Oct. 11.
- Kepler, George W., assignor to The Computing Scale Company, Dayton, Ohio. Temperature-compensating device for scales. No. 1,366,670; Jan. 25; v. 282; p. 637.
- Kepley, Edward K., Boonton, and C. A. Cole, Jersey City, N. J. Wooden panel. No. 1,374,580; Apr. 12; v. 285; p. 274.
- Keplinger, George B., Chicago, Ill. Bath-brush. No. 1,367,747; Feb. 8; v. 283; p. 228.
- Kepper, Elmer E., Springfield, Oreg. Can-opener. No. 1,397,217; Nov. 15.
- Keppel, Charles J., Monroeville, Ohio. Garment-protector. No. 1,391,121; Sept. 20; v. 290; p. 469.
- Kepler, Albert C., assignor to Sunderman Corporation, Newburgh, N. Y. Automobile gasoline-shut-off apparatus. No. 1,389,876; Sept. 6; v. 290; p. 64.
- Kepler, Frederick L., New York, N. Y. Glass pavement-light. No. 1,385,688; July 26; v. 288; p. 709.
- Kepler, Frederick L., New York, N. Y. Glass construction unit. No. 1,386,409; Aug. 2; v. 289; p. 88.
- Kercher, John, Chicago, Ill. Massaging-machine. No. 1,384,072; July 12; v. 288; p. 218.
- Keresztes, George A., assignor to Novelty Amusement Co., Pittsburgh, Pa. Motion-picture and target apparatus. No. 1,389,877; Sept. 6; v. 290; p. 64.
- Kereszty, Georg, and E. Wolf, Ujpest, Hungary. Production of solid basic magnesium hypochlorite. No. 1,400,167; Dec. 13.
- Kerlin, Harry and J. R. Malaney, Birmingham, Ala. Penholder. No. 1,395,428; Nov. 1.
- Kerlin, Rudolph E., Cudahy, Wis. Motor-driven vehicle. No. 1,391,834; Sept. 27; v. 290; p. 386.
- Kermode, Elmer G., Cleveland, Ohio. Electric switch. No. 1,366,466; Jan. 25; v. 282; p. 597.
- Kern, Albert L., Aurora, Ill. Tool-support. No. 1,386,629; Aug. 30; v. 289; p. 203.
- Kern, Albert L., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Door-hanger. No. 1,382,365; June 21; v. 287; p. 498.
- Kern, Bernice. (See Tracy, Mearl V., assignor.)
- Kern, Charles J., Buffalo, N. Y., assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y. Toy aerial swing. No. 1,379,575; May 24; v. 286; p. 791.
- Kern, Clara A., Bridgewater, Mich. Toy. No. 1,368,634; Feb. 15; v. 283; p. 447.
- Kern, Frank, New York, N. Y. Flower-holder. No. 1,372,820; Mar. 29; v. 284; p. 794.
- Kern, Jacob S., Fleetwood, Pa. Windshield. No. 1,378,871; May 24; v. 286; p. 658.
- Kern, Maximilian H., New York, N. Y., assignor to Roberts Numbering Machine Company. Numbering-head. No. 1,385,835; July 26; v. 288; p. 738.
- Kern, Peter, Montreal, Quebec, assignor of one-half to J. R. Booth, Jr., Ottawa, Ontario, Canada. Automobile-hood. No. 1,390,295; Sept. 13; v. 290; p. 240.
- Kern, William A., Ellwood City, assignor to F. Schaefer, Pittsburgh, Pa. Manufacturing brake-levers. No. 1,390,207; Sept. 6; v. 290; p. 130.
- Kernan, Daniel. (See Gerrard, Thomas, assignor.)
- Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel-buckle. No. 1,389,948; Sept. 6; v. 290; p. 79.
- Kernohan, David, Belfast, Ireland. Heel-grip for shoes. No. 1,401,790; Dec. 27.
- Kerns, John R., Covington, Ky. Motometer-lamp. No. 1,386,179; Aug. 2; v. 289; p. 43.
- Kerr, Andrew J., assignor of fifty-one per cent. to A. M. Pachmayr, Los Angeles, Calif. Bermuda-grass cutter and lawn-aerator. No. 1,385,007; July 19; v. 288; p. 493.
- Kerr, Arthur N., Pittsburgh, Pa., assignor to Transcontinental Oil Company. Apparatus for reclaiming light casing-head gasoline. No. 1,371,427; Mar. 15; v. 284; p. 428.
- Kerr, Arthur N., assignor, by mesne assignments, to Transcontinental Oil Company, Pittsburgh, Pa. Cylinder-car. No. 1,385,836; July 26; v. 288; p. 738.
- Kerr, Augustus H., Fort Worth, Tex., assignor to said Augustus H. Kerr, J. A. Smith, J. M. Atkinson, J. A. Daus, and W. L. Coley, trustees for an association. Pneumatic cushioned tire. No. 1,382,918; June 28; v. 287; p. 657.
- Kerr, Charles H. (See Tillyer, E. D., and Kerr.)
- Kerr, Charles V., assignor to The American Well Works, Aurora, Ill. Centrifugal pump. No. 1,374,664; Apr. 12; v. 285; p. 290.
- Kerr, Charles V., assignor to The American Well Works, Aurora, Ill. Steam-turbine. No. 1,398,461; Nov. 29.
- Kerr, Charles V., assignor to The American Well Works, Aurora, Ill. Steam-turbine. No. 1,399,215; Dec. 6.
- Kerr, David C., Flint, Mich. Wrench. No. 1,371,491; Mar. 15; v. 284; p. 441.
- Kerr, Harry C., Kansas City, Mo. Polishing composition and making same. No. 1,397,102; Nov. 15.
- Kerr, Harry E., Cleveland, Ohio, assignor to The Federal System of Bakeries of America, Davenport, Iowa. Baking-oven. No. 1,391,835; Sept. 27; v. 290; p. 686.
- Kerr, Howard J., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water-back for stokers. No. 1,390,791; Sept. 13; v. 290; p. 339.
- Kerr, Isaac A., Memphis, Tenn. Soil-disintegrator. No. 1,397,428; Nov. 15.
- Kerr, Jackson H., *et al.* (See Boswell, David A., assignor.)
- Kerr, John J., Rochester, Minn. Planimeter-guide. No. 1,386,876; Aug. 9; v. 289; p. 253.
- Kerr, Joseph G., Goodland, Kans. Clamp for wire-stretchers. No. 1,373,078; Mar. 29; v. 284; p. 845.
- Kerr, Marshall B. (See Manire, Moses E., assignor.)
- Kerr, Robert C., Reading, Mich. Folding chair. No. 1,366,913; Feb. 1; v. 283; p. 6.
- Kerrick, Walter B., Los Angeles, Calif. Wheel. No. 1,377,353; May 10; v. 286; p. 243.
- Kerrick, Walter B., Los Angeles, Calif. Wheel. No. 1,377,354; May 10; v. 286; p. 243.
- Kersey, Percy L., Indianapolis, Ind. Piston and ring. No. 1,385,556; July 26; v. 288; p. 681.
- Kershaw, Edwin T., Denver, Colo. Internal-combustion engine. No. 1,394,094; Oct. 18.
- Kershaw, Edwin T., Denver, Colo., assignor to The Hunter Gas Engine and Development Company. Engine. No. 1,365,500; Jan. 11; v. 282; p. 324.
- Kershaw, Grindrod, Whitworth, England. Tension device or yarn-cleaner for creels for use in warping or beaming. No. 1,397,286; Nov. 15.
- Kerstein, Ernest A., Union, N. J., assignor to American Meter Company, New York, N. Y. Gas-meter. No. 1,385,253; July 19; v. 288; p. 543.
- Kerstetter, John H., State College, Pa. Adjustable hinge. No. 1,381,072; June 7; v. 287; p. 144.
- Kerwien, Otto, Minneapolis, Minn. Ventilator. No. 1,399,126; Dec. 6.
- Kerwin, William J., Jr., New Bedford, Mass. Automatic oiling device for rub-aprons. No. 1,370,972; Mar. 8; v. 284; p. 276.



*Alphabetical list of patentees—Continued.*

- Kesot, Benjamin M., Muncie, Ind., assignor of one-fourth to Charles A. Mendenhall, and one-fourth to James H. Lumpkin, Farmland, Ind. Mechanical movement. No. 1,364,199; Jan. 4; v. 282; p. 29.
- Kesseling, Fritz, Neuhausen, Switzerland. Continuous-current dynamo. No. 1,389,051; Aug. 30; v. 289; p. 848.
- Kesses, Charles, New York, N. Y. Motion-picture projector. No. 1,384,527; July 12; v. 288; p. 312.
- Kesses, Charles, New York, N. Y. Photographic exposing-clock. No. 1,384,528; July 12; v. 288; p. 312.
- Kessler, Frank, Sr., Milwaukee, Wis. Stove or range. No. 1,391,778; Sept. 27; v. 290; p. 674.
- Kessler, Frank, Sr., Milwaukee, Wis. Cooking-oven. No. 1,394,310; Oct. 18.
- Kessler, Johannes M., West Orange, N. J., assignor to E. I. du Pont de Nemours & Company. Purification of crude synthetic camphor. No. 1,401,709; Dec. 27.
- Kessler, John E. (See Turner, T., Kessler, and Higgins.)
- Kessler, Joseph, Rochester, N. Y. Film-stopping device. No. 1,367,268; Feb. 1; v. 283; p. 77.
- Kessler, Rudolph, Chicago, Ill. Device for making butter pads. No. 1,396,438; Nov. 8.
- Kessler, William, Sprague, Wash. Change-speed mechanism. No. 1,401,538; Dec. 27.
- Kessling, Adam, Quincy, Ill. Phonograph-record holder. No. 1,395,188; Oct. 25.
- Kestel, Henry C., assignor to The K. M. Manufacturing Company, Toledo, Ohio. Grease-cup. No. 1,364,284; Jan. 4; v. 282; p. 47.
- Kestell, Charles A., Detroit, Mich. Automatic lock-pulley. No. 1,389,514; Aug. 30; v. 289; p. 939.
- Ketcham, Horace A. (See Cartzdafner, R. E., and Ketcham.)
- Ketchum, Zebulum C., Ottawa, Ontario, Canada. Marking-tag for animals or birds. No. 1,382,091; June 21; v. 287; p. 446.
- Ketelsen, Ingwer, Sturgis, S. D. Mud-lug. No. 1,366,467; Jan. 25; v. 282; p. 597.
- Kettenton, George, Scotts Bluff, Nebr. Wheeled ditching-machine. No. 1,388,266; Aug. 23; v. 289; p. 637.
- Ketterer, Charles A., East St. Louis, Ill. Side-icing refrigerator. No. 1,369,443; Feb. 22; v. 283; p. 643.
- Kettering, Charles F., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Internal-combustion engine. No. 1,380,974; June 7; v. 287; p. 125.
- Kettering, Charles F., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,401,479; Dec. 27.
- Kettering, Charles F., and W. A. Chryst, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Power plant. No. 1,380,975; June 7; v. 287; p. 125.
- Kettering, Charles F., and W. A. Chryst, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Engine-starting system. No. 1,391,194; Sept. 20; v. 290; p. 483.
- Kettering, Charles F., and W. A. Chryst, Dayton, Ohio, assignors to The Dayton Engineering Laboratories Company. Electrical system for engines. No. 1,401,337; Dec. 27.
- Kettle, Herbert E., Hamilton, Ontario, Canada. Game apparatus. No. 1,368,401; Feb. 15; v. 283; p. 401.
- Kettler, Fritz, Munich, Germany. Wrench. No. 1,391,898; Sept. 27; v. 290; p. 699.
- Keuffel & Esser Co. (See Barch, Walter F., assignor.)
- Kewanee Implement Company. (See Glidden, Raymond B., assignor.)
- Kewell, Charles H., San Francisco, Calif. Spinner. No. 1,389,763; Sept. 6; v. 290; p. 41.
- Key Boiler Equipment Company. (See Key, Frederick E., assignor.)
- Key, Emmett M., Tulsa, Okla. Notching device. No. 1,387,851; Aug. 16; v. 289; p. 500.
- Key, Frederick E., assignor to Key Boiler Equipment Company, St. Louis, Mo. Sealing-paste. No. 1,391,738; Sept. 27; v. 290; p. 667.
- Key, James F., Sierra Madre, assignor of one-half to W. A. Hayt, Los Angeles, Calif. Coupling. No. 1,385,080; July 19; v. 288; p. 508.
- Key, John R., Leavenworth, Kans. Road-grading machine. No. 1,369,033; Feb. 22; v. 283; p. 564.
- Key, John R., Leavenworth, Kans. Steering mechanism for road-graders. No. 1,370,973; Mar. 8; v. 284; p. 277.
- Keyes Fibre Company. (See Williamson, Bert R., assignor.)
- Keyes, Frank E., Pasadena, Calif. Means for separating solid substances from lubricating-oil. No. 1,396,219; Nov. 8.
- Keyes, Frederick G., Cambridge, Mass., assignor to Cooper Hewitt Company. Manufacture of molybdenum-tungsten alloy. No. 1,377,982; May 10; v. 286; p. 364.
- Keyes, Henry E., Philadelphia, Pa. Vertical-milling-machine attachment. No. 1,394,843; Oct. 25.
- Keys, Victor O., Versailles, Ky. Coin-container. No. 1,365,412; Jan. 11; v. 282; p. 307.
- Keys, Walter C., assignor to The Standard Parts Company, Cleveland, Ohio. Axle. No. 1,377,589; May 10; v. 286; p. 287.
- Keys, Walter C., assignor to The Standard Parts Company, Cleveland, Ohio. Brake mechanism. No. 1,380,585; June 7; v. 287; p. 45.
- Keyser, George H., Akron, Ohio. Mechanical directory. No. 1,373,966; Apr. 5; v. 285; p. 115.
- Keyser, William P., and J. A. Moore, Richland District, W. Va. Feed regulator for powdered fuel. No. 1,388,185; Aug. 23; v. 289; p. 620.
- Keystone Driller Co. (See Downie, Robert R., assignor.)
- Keystone Driller Company. (See Downie, Robert M., assignor.)
- Keystone Steel & Wire Company. See Sommer, John, assignor.)
- Keystone Steel & Wire Company. (See Sommer, William H., assignor.)
- Keystone Tool and Die Works, trustee. (See Madsen, Charles C., assignor.)
- Keystone Watch Case Company. (See Freund, Joseph A., assignor.)
- Keyworth, William C., Paterson, N. J. Swift. No. 1,365,248; Jan. 11; v. 282; p. 275.
- Kezema, August P., Denver, Colo. Vehicle-tilting dumping-platform. No. 1,389,052; Aug. 30; v. 289; p. 848.
- Kezon, Joseph, Scarborough, W. Va. Wreck-fishplate. No. 1,368,506; Feb. 15; v. 283; p. 423.
- Khalil, Seyed, assignor of forty-five per cent. to I. Stern, Newark, N. J. Motor-vehicle. No. 1,389,764; Sept. 6; v. 290; p. 41.
- Kibbe, Milo W., assignor of one-third to Robert C. Greer, Los Angeles, Calif. Electric switch for stove-lighters and the like. No. 1,364,382; Jan. 4; v. 282; p. 65.
- Kicklighter, Charles H., Atlanta, Ga. Electric welding. No. 1,367,552; Feb. 8; v. 283; p. 191.
- Kicklighter, Charles H., Atlanta, Ga. Joining metal by electric welding. No. 1,367,553; Feb. 8; v. 283; p. 191.
- Kidd, Joseph, Winnipeg, Manitoba, Canada. Level. No. 1,381,844; June 14; v. 287; p. 340.
- Kidder, Wellington P., Boston, Mass. Water-vaporizer. No. 1,372,235; Mar. 22; v. 284; p. 640.
- Kidder, Wellington P., Jamaica Plain, Mass., assignor of one-third to H. Bates and two-thirds to International Lettergraph Corporation, New York, N. Y. Incased collapsible typewriter. No. 1,383,638; July 5; v. 288; p. 79.
- Kidder, William C. (See Smith, William W., assignor.)
- Kiddie, Frederick W., Leamington, assignor to Winget Limited, London, England. Press for molding concrete blocks and the like. No. 1,371,174; Mar. 8; v. 284; p. 314.
- Kiddie-Town Products, Inc. (See Kennedy, John W., assignor.)
- Kidney, William W., assignor to American Electric Company, Chicago, Ill. Operating mechanism for phonographs. No. 1,374,151; Apr. 5; v. 285; p. 149.
- Kidney, Willis E., assignor to The Cleveland Electric Machine and Manufacturing Company, Cleveland, Ohio. Chopping-machine. No. 1,377,203; May 10; v. 286; p. 213.
- Kidney, Willis E., assignor to The Cleveland Electric and Machine Mfg. Co., Cleveland, Ohio. Meat-slicing machine. No. 1,378,872; May 24; v. 286; p. 658.
- Kiefer, Arthur W., Chicago, Ill. Pipe-wrench. No. 1,380,566; June 7; v. 287; p. 46.
- Kiefer, Jean E., assignor to Kiefer, Pasquier & Bizot, Lausanne, Switzerland. Brick or building-block. No. 1,382,652; June 28; v. 287; p. 607.
- Kiefer, Julius E., trustee. (See Sahlin, John, assignor.)
- Kiefer, Julius E. (See Zahn, Otto E., assignor.)
- Kiefer, Pasquier & Bizot. (See Kiefer, Jean E., assignor.)
- Kiefer, Raymond A., Ramsey, N. J. Jar-opener. No. 1,399,349; Dec. 6.
- Kiel, John. (See Young, Fay J., assignor.)
- Kiel Machine Co. (See Daniel, Henry, assignor.)
- Kienlen, Anna C., Aurora, Ill. Rope-tightening device. No. 1,382,366; June 21; v. 287; p. 498.
- Kienzle, Charles J., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Cutting-chain. No. 1,375,638; Apr. 19; v. 285; p. 539.
- Kierstead, Friend H., Pittsfield, Mass., assignor to General Electric Company. Reactor in tanks. No. 1,394,910; Oct. 25.
- Kiesel, William F., Jr., Altoona, Pa. Arrangement of water-gate cocks. No. 1,388,115; Aug. 16; v. 289; p. 550.
- Kiesel, William F., Jr., Altoona, Pa. Ratchet-wrench. No. 1,391,636; Sept. 20; v. 290; p. 573.
- Kiesel, William F., Jr., Altoona, Pa. Journal-box hinge-pin. No. 1,393,139; Oct. 11.
- Kiessig, Bernard R. (See Vasey, J. N., and Kiessig.)
- Kiessling, Edmund F., Oakland, Calif. Direction-indicator. No. 1,392,506; Oct. 4.
- Kiest, Henry A., Knox, Ind. Fishing-reel. No. 1,385,457; July 26; v. 288; p. 661.
- Kietz, Adolf, Cleveland, Ohio. Device for waving hair. No. 1,393,448; Oct. 11.
- Kiewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Guard for starting mechanism of sewing-machines. No. 1,398,523; Nov. 29.
- Kiffe, Bertram J., Mankato, Minn. Phonographic record and table. No. 1,391,637; Sept. 20; v. 290; p. 573.
- Kight, Garland F., Norfolk, Va. Wheel-facing machine. No. 1,371,791; Mar. 15; v. 284; p. 493.
- Kight, Garland F., Norfolk, Va. Stock. No. 1,393,380; Oct. 11.
- Kik, Nicholas. (See Boomsliiter, Charles C., assignor.)



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- Kikta, Alex. Flint, Mich. Wrench. No. 1,389,515; Aug. 30; v. 289; p. 939.
- Kilborn, George, *et al.* (See Jones, Edward S., assignor.)
- Kilborn, Karl B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Interlocking mold. No. 1,375,660; Apr. 19; v. 285; p. 543.
- Kilborn, Karl B., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Building tires. No. 1,382,367; June 21; v. 287; p. 498.
- Kilborn, Karl B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Method of and apparatus for removing pneumatic tires from cores. No. 1,388,435; Aug. 23; v. 289; p. 672.
- Kilbourne, Lewis W. (See Krumscheid, Peter, assignor.)
- Kilbourne and Jacobs Manufacturing Company, The. (See Burner, W. L., and Cotton, assignors.)
- Kilbourne & Jacobs Manufacturing Company, The. (See Burner, William L., assignor.)
- Kilbourne and Jacobs Manufacturing Company, The. (See Martin, C. C., and Cotton, assignors.)
- Kilburn, Arthur R., Whitehall, Wash. Automatic safety train-stop mechanism. No. 1,395,832; Nov. 1.
- Kilburn, Oliver J. (See Patterson, C. J., and Kilburn.)
- Kilby Frog & Switch Company. (See Yoltou, Robert E., assignor.)
- Kilcullen, Patrick J., Philadelphia, Pa. Wave-operated device. No. 1,396,580; Nov. 8.
- Kilcullen, Patrick J., Philadelphia, Pa. Wheel-hub. No. 1,400,442; Dec. 13.
- Kildahl, Nils, Horton, Mont. Pin-fastener. No. 1,391,480; Sept. 20; v. 290; p. 541.
- Kile, John H., Bain, Minn. Divider-board. No. 1,380,389; June 7; v. 287; p. 12.
- Kiley, George A., Los Angeles, Calif. Faucet. No. 1,372,957; Mar. 29; v. 284; p. 822.
- Kiley, Joe L., Heloise, Tenn. Cotton-picker's bag. No. 1,383,955; July 5; v. 288; p. 144.
- Kiley, Joe L., and R. E. Lucas, Heloise, Tenn.; said Lucas assignor of one-half of his entire right to said Kiley. Harvesting-bag. No. 1,383,956; July 5; v. 288; p. 144.
- Kilfoyle, Fred M., Storrs, Utah. Clothespin. No. 1,398,969; Dec. 6.
- Kilgo, William A., Asheville, N. C. Poster-frame. No. 1,396,638; Nov. 8.
- Kilgore, Joseph D., Columbus, Ohio. Toy pistol. No. 1,368,402; Feb. 15; v. 283; p. 402.
- Kilgour, Arthur C., assignor to The Union Switch & Signal Company, Swissvale, Pa. Lamp-bracket for semaphore-signals. No. 1,370,453; Mar. 1; v. 284; p. 132.
- Kilgour, David, Jr., Vancouver, British Columbia, Canada. Pipe-cutter. No. 1,380,653; June 7; v. 287; p. 62.
- Kilkenny, Joseph B., Oakland, Calif. Fusible plug. No. 1,384,471; July 12; v. 288; p. 300.
- Killam, Thomas H., Duluth, Minn. Hoe. No. 1,372,298; Mar. 22; v. 284; p. 652.
- Killen, Edward B., London, England. Landing carriage or frame for aircraft. No. 1,379,576; May 24; v. 286; p. 791.
- Killen, Edward B., London, England. Wheel and wheel-fitting. No. 1,379,577; May 24; v. 286; p. 791.
- Killen, James M., Reids, La. Ventilated grate for fire-places. No. 1,389,516; Aug. 30; v. 289; p. 939.
- Killian, Frank B., New Dorp, N. Y. Grease-gun. No. 1,391,325; Sept. 20; v. 290; p. 511.
- Killian, John F., Stockton, Calif. Toilet-paper holder. No. 1,391,326; Sept. 20; v. 290; p. 511.
- Killian, Lawrence E., Fillmore, Ill. Crosscut-saw equalizer. No. 1,387,274; Aug. 9; v. 289; p. 330.
- Killits, Morris J., assignor to The S. P. Stone Company, Columbus, Ohio. Mold for concrete blocks. No. 1,391,638; Sept. 20; v. 290; p. 573.
- Killman Development Co. (See Killman, Thomas A., assignor.)
- Killman, Thomas A., Nashville, Tenn. Steam-pump. No. 1,367,980; Feb. 8; v. 283; p. 272.
- Killman, Thomas A., assignor to Killman Development Co., Nashville, Tenn. Combined gas and steam system for engines. No. 1,373,509; Apr. 5; v. 285; p. 26.
- Kilmer, Charles, Tacoma, Wash. Store apparatus. No. 1,382,092; June 21; v. 287; p. 446.
- Kilmer, Opal E., Valparaiso, Ind. Baby-carriage. No. 1,401,085; Dec. 20.
- Kilmer, William, Newton, Iowa. Can-stopper. No. 1,368,561; Feb. 15; v. 283; p. 433.
- Kilpatrick, Robert L., Hempstead, Tex. Combined brace and angle-bar for vehicle-bodies. No. 1,373,563; Apr. 5; v. 285; p. 36.
- Kiltz, Charles W., Evansville, Ind. Automobile frame and spring. No. 1,372,699; Mar. 29; v. 284; p. 769.
- Kim, Julius, *et al.* (See Isenhour, Luther J., assignor.)
- Kimball, A., Company. (See Anthony, Marcus O., assignor.)
- Kimball, A., Company. (See Wallin, Gustaf A., assignor.)
- Kimball, Don L., Portland, Oreg., assignor to Universal Transmission Co., Seattle, Wash. Transmission mechanism. No. 1,398,101; Nov. 22.
- Kimball, John A., Taylorville, Ill. Tray-holder for record-cards. No. 1,372,516; Mar. 22; v. 284; p. 693.
- Kimball, John A., Taylorville, Ill. Nut-lock. No. 1,373,335; Mar. 29; v. 284; p. 897.
- Kimball, W. W., Company. (See Harcourt, Stillwell R., assignor.)
- Kimball, Wallace D., Chicago, Ill., assignor to Signode System Incorporated. Strap for box-fastenings or the like. No. 1,376,855; May 3; v. 286; p. 91.
- Kimball, Wallace D., New York, N. Y., and C. G. Mortimer, East Orange, N. J., assignors to National Binding Machine Company, New York, N. Y. Spliced joint for bale-bands. No. 1,393,791; Oct. 18.
- Kimbark, Eugene U., Evanston, Ill. Protecting strip for glass-windows or the like. No. 1,375,914; Apr. 26; v. 285; p. 623.
- Kimber, Harry A., New Rochelle, N. Y., assignor to Quigley Furnace Specialties Co., Inc. Inlet-valve for blowing-tanks. No. 1,386,004; Aug. 2; v. 289; p. 8.
- Kimber, Walter E., London, England. Lifting-truck. No. 1,378,466; May 17; v. 286; p. 507.
- Kimberly-Clark Company. (See Boon, H. G., and Fourness, assignors.)
- Kimble, Austin, assignor to Marathon Electric Mfg. Company, Wausau, Wis. Adjustable constant-speed power-transmitting device. No. 1,370,749; Mar. 8; v. 284; p. 254.
- Kimble, Austin, assignor to Marathon Electric Mfg. Company, Wausau, Wis. Variable-speed power-transmitting device. No. 1,372,700; Mar. 29; v. 284; p. 769.
- Kimble, Austin, assignor to Marathon Electric Mfg. Company, Wausau, Wis. Insulated squirrel-cage winding. No. 1,375,007; Apr. 19; v. 285; p. 418.
- Kimble, Austin, assignor to Marathon Electric Mfg. Company, Wausau, Wis. Induction-motor. No. 1,375,461; Apr. 19; v. 285; p. 505.
- Kimble, Austin, assignor to Marathon Electric Mfg. Co., Wausau, Wis. Ventilated pulley. No. 1,388,865; Aug. 30; v. 289; p. 810.
- Kimble, Frank A., and W. S. Fox, Zanesville, Ohio. Low-pressure-steam signal. No. 1,365,786; Jan. 18; v. 282; p. 420.
- Kimble, Frank A., and W. S. Fox, Zanesville, Ohio. Traction attachment for vehicle-wheels. No. 1,366,810; Jan. 25; v. 282; p. 665.
- Kimble Glass Company. (See Halversen, Hans N., assignor.)
- Kimbul, Morton S., Oakland, Calif. Liquid-carbonating apparatus. No. 1,373,892; Apr. 5; v. 285; p. 100.
- Kime, Homer, Waterville, Minn. Sole-cutting machine. No. 1,367,269; Feb. 1; v. 283; p. 77.
- Kimes, Hugh W., assignor to The Vaile-Kimes Company, Dayton, Ohio. Valve. No. 1,387,601; Aug. 16; v. 289; p. 449.
- Kim, Lada, Cleveland, Ohio. Laundry clip. No. 1,396,639; Nov. 8.
- Kimman, Henry J., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Drill. No. 1,385,458; July 26; v. 288; p. 661.
- Kimmel, Charles A., St. Louis, Mo. Container for talking-machine records. No. 1,376,703; May 3; v. 286; p. 61.
- Kimmel, George P., *et al.* (See McCann, Joseph W., assignor.)
- Kimmerle, Gustav L., Newark, and D. S. Landstra, South Orange, N. J. Portable folding outside window-seat. No. 1,365,695; Jan. 18; v. 282; p. 401.
- Kimmet, Henry, assignor to The Liberty Manufacturing & Sales Company, Kansas City, Mo. Vehicle-brake. No. 1,375,706; Apr. 26; v. 285; p. 584.
- Kimmich, Elmer G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Curing hose. No. 1,365,327; Jan. 11; v. 282; p. 291.
- Kimpton, Haupt & Co. (See Riley, James T., assignor.)
- Kincaid, Archibald S., assignor to L. L. Patterson, Seattle, Wash. Charge-humidifying device for internal-combustion engines. No. 1,397,837; Nov. 22.
- Kincaid, Robert L., Syracuse, N. Y. Washing-machine. No. 1,378,177; May 17; v. 286; p. 453.
- Kinch, George E., Quirindi, New South Wales, Australia. Automatic opening mechanism for closet-seat lids. No. 1,398,556; Nov. 29.
- Kinckiner, J. Roy. (See Phillippi, Frank A., assignor.)
- Kindser, Alexander, Canon City, Colo. Resilient wheel. No. 1,394,024; Oct. 18.
- King, Albert, deceased; Ashton-under-Lyne, England, K. W. King, administratrix. Spiral-tube-winding machine. No. 1,382,984; June 28; v. 287; p. 670.
- King, Albert O. (See Barrett, C. D., Myers, and King.)
- King, Anson, Boston, Mass. Typewriter. No. 1,396,329; Nov. 8.
- King, Arthur, *et al.* (See Howell, Henry M., assignor.)
- King, Arthur S., Pawnee City, Nebr. Automatic fuel-feeding device. No. 1,370,120; Mar. 1; v. 284; p. 69.
- King, Austin E., Cole, S. D. Harrow. No. 1,373,618; Apr. 5; v. 285; p. 46.
- King Bee Spark Plug Company *et al.* (See Trova, Oswald, assignor.)
- King, Bert W., Detroit, Mich. Scale. No. 1,384,136; July 12; v. 288; p. 231.
- King, Carl C., Boston, Mass. Blade-sharpening machine. No. 1,365,696; Jan. 18; v. 282; p. 401.
- King, Charles A., Leeds, and W. S. Rawson, London, England. Calcining. No. 1,400,443; Dec. 13.
- King, Charles E., assignor to Capen Belting and Rubber Company, St. Louis, Mo. Manufacturing endless V-shaped or angular belts. No. 1,401,480; Dec. 27.
- King, Charles W., St. Louis, Mo. Advertising device. No. 1,396,640; Nov. 8.



## Alphabetical list of patentees—Continued.

- King, Charles W., Memphis, Tenn. Wrench. No. 1,399,966; Dec. 13.
- King, Clarence R., assignor to Norton Company, Worcester, Mass. Making abrading-tools. No. 1,394,500; Sept. 18.
- King, Clifford G., Providence, assignor to himself and A. I. Clark, Cranston, R. I. Bracelet. No. 1,390,360; Sept. 13; v. 290; p. 252.
- King, Clifford G., Providence, assignor to himself and A. I. Clark, Cranston, R. I. Latch for bracelets and the like. No. 1,390,361; Sept. 13; v. 290; p. 252.
- King, Edgar S., Osgood, Ind. Automatic fuel cut-off. No. 1,399,967; Dec. 13.
- King, Edward F., Providence, R. I., assignor to What Cheer Braid Company. Device for packaging shoe, corset, and other laces. No. 1,372,884; Mar. 29; v. 284; p. 801.
- King, Edward F., assignor, by direct and mesne assignments, to What Cheer Braid Company, Providence, R. I. Tip for lacings. No. 1,397,526; Nov. 22.
- King, Elias D., Prairie du Sac, Wis. Tail-holder. No. 1,391,739; Sept. 27; v. 290; p. 667.
- King, Forrest C., Columbia, S. C. Car-record book. No. 1,388,048; Aug. 16; v. 289; p. 537.
- King, Fred, Carmarthen, Wales. Adjustable rubber pad, ferrule, or tip for walking-sticks, crutches, &c. No. 1,372,517; Mar. 22; v. 284; p. 693.
- King, Frederick E., *et al.* (See Herry, Bert C., assignor.)
- King, George S., South Berkeley, Calif. Front-axle radius-rod. No. 1,383,817; July 5; v. 288; p. 116.
- King, George S., South Berkeley, Calif. Front-axle radius-rod. No. 1,392,175; Sept. 27; v. 290; p. 755.
- King, Gordon A., London, England. Bow and necktie. No. 1,383,214; June 28; v. 287; p. 714.
- King, Graham, South Orange, N. J. Camera. No. 1,379,189; May 24; v. 286; p. 718.
- King, Guy, Atlanta, and C. G. Adsit, Tallulah Falls, Ga. Medicated chewing-gum. No. 1,396,641; Nov. 8.
- King & Hamilton Company. (See Gilman, Albert E., assignor.)
- King, Harry J., Oakland, Ind. Shaving-mirror. No. 1,389,053; Aug. 30; v. 289; p. 848.
- King, Henry M., Clayton, Okla. Saw-sawage. No. 1,388,724; Aug. 23; v. 289; p. 724.
- King, Horace R., and A. F. Adams, Vancouver, British Columbia, Canada. Copy-holder. No. 1,369,760; Feb. 22; v. 283; p. 706.
- King, Horace W., Ann Arbor, Mich. Depth-indicating device. No. 1,364,503; Jan. 4; v. 282; p. 89.
- King, Horace W., Ann Arbor, Mich. Depth-indicating device. No. 1,364,504; Jan. 4; v. 282; p. 89.
- King, Israel L., Boston, Mass. Rail-joint. No. 1,380,976; June 7; v. 287; p. 126.
- King, Ivan, Los Angeles, Calif. Reel-oven. No. 1,372,144; Mar. 22; v. 284; p. 622.
- King, Jack, Seattle, Wash. Log-handling device. No. 1,364,383; Jan. 4; v. 282; p. 65.
- King, James F., Glasgow, Scotland. Construction of ships. No. 1,391,389; Sept. 20; v. 290; p. 523.
- King, James M., Livingston, Tex. Fishhook. No. 1,401,086; Dec. 20.
- King, Jewel W., Memphis, Tenn. Store construction. No. 1,381,202; June 14; v. 287; p. 220.
- King, John, Williams Lake, British Columbia, Canada. Water-wheel. No. 1,392,893; Oct. 4.
- King, John E. (See Pratt, D. S., and Trigg, assignors.)
- King, John E. (See Trigg, Charles W., assignor.)
- King, John G., Morristown, N. J. Frying-pan. No. 1,396,848; Nov. 15.
- King, John G., Pine Bluff, Ark. Stop or waste cock. No. 1,398,329; Nov. 29.
- King, John L., East Orange, N. J. Canoe attachment. No. 1,370,592; Mar. 8; v. 284; p. 204.
- King, John L., Chicago, Ill., assignor to Rotary King Safety Razor Company. Safety-razor. No. 1,366,468; Jan. 25; v. 282; p. 597.
- King, John L., New York, N. Y., assignor to Rotary King Safety Razor Company. Safety-razor. No. 1,367,909; Feb. 8; v. 283; p. 259.
- King, John L., assignor to Rotary King Safety Razor Company, New York, N. Y. Safety-razor. No. 1,398,379; Nov. 29.
- King, John O. (See Pohl, Charles, assignor.)
- King, John O., Los Angeles, Calif. Generator for hydro-carbon-burners. No. 1,385,557; July 26; v. 288; p. 682.
- King, John Y., Lansdowne, Pa. Air-feeding device. No. 1,365,697; Jan. 18; v. 282; p. 402.
- King, John Y., Lansdowne, Pa. Air-feeding device. No. 1,384,838; July 19; v. 288; p. 458.
- King, John Y., Lansdowne, Pa. Shock-absorbing spring. No. 1,393,140; Oct. 11.
- King, John Y., Lansdowne, Pa. Shirt. No. 1,400,881; Dec. 20.
- King, Joseph E., Nantylfyllon, near Bridgend, and B. Morgan, Caerau, near Bridgend, Wales. Safety-clevis. No. 1,387,781; Aug. 16; v. 289; p. 486.
- King, Joseph M., Detroit, Mich. Exhaust-manifold. No. 1,374,927; Apr. 19; v. 285; p. 402.
- King, Joshua R. (See King, William O. and J. R.)
- King, Julius, Optical Company. (See King, Walter G., assignor.)
- King, Kathleen W., administratrix. (See King, Albert.)
- King, Leonard, Luton, England. Automatic sprinkler-broom. No. 1,384,722; July 12; v. 288; p. 353.
- King, Louis V., Montreal, Quebec, Canada. Tuning of diaphragms for generating or receiving sound-waves. No. 1,375,707; Apr. 26; v. 285; p. 585.
- King Manufacturing Company, The. (See Holloway, H. A., and Trachsel, assignors.)
- King, Michael, Flat River, Mo. Radiator. No. 1,376,943; May 3; v. 286; p. 107.
- King, Michael, St. Louis, Mo. Collapsible crate. No. 1,378,797; May 17; v. 286; p. 572.
- King, Myath B., Corinth, Miss. Cotton-chopper. No. 1,371,099; Mar. 8; v. 284; p. 300.
- King, Oliver M., St. Joseph, Mo. Safety cut-out switch. No. 1,366,914; Feb. 1; v. 283; p. 7.
- King, Oscar L. (See Sager, E. E., and King.)
- King, Percival F., Vancouver, British Columbia, Canada. Automobile-cover. No. 1,390,137; Sept. 6; v. 290; p. 117.
- King, Reginald O., New York, N. Y. Resilient wheel. No. 1,383,725; July 5; v. 288; p. 97.
- King, Robert, *et al.* (See Lickiss, Ernest E., assignor.)
- King, Robert W., Toronto, Ontario, Canada. Furnace. No. 1,379,448; May 24; v. 286; p. 767.
- King, Roy D., Chicago, Ill. Shingle-cutting machine. No. 1,394,911; Oct. 25.
- King, Roy D., assignor to M. R. Newman, Chicago, Ill. Portable watchman's clock. No. 1,365,109; Jan. 11; v. 282; p. 249.
- King, Rufus, Plainville, assignor to Bugbee & Niles Company, North Attleboro, Mass. Clasp. No. 1,371,210; Mar. 8; v. 284; p. 321.
- King, Rufus, Plainville, assignor to Bugbee & Niles Company, North Attleboro, Mass. Clasp for straps, bands, or ribbons. No. 1,372,299; Mar. 22; v. 284; p. 652.
- King, Rufus, Plainville, assignor to Bugbee & Niles Company, North Attleboro, Mass. Ribbon-bracelet clasp. No. 1,389,196; Aug. 30; v. 289; p. 876.
- King, Sam T., Williamsfield, Ill. Traffic-signal. No. 1,393,381; Oct. 11.
- King, Valentine B., Chicago, Ill. Automobile ventilator and rain-shield. No. 1,365,698; Jan. 18; v. 282; p. 402.
- King, Victor J., Cedarview, Utah. Safety grease-cup. No. 1,365,699; Jan. 18; v. 282; p. 402.
- King, Walter E., Houston, Tex. Hydraulic swivel. No. 1,379,190; May 24; v. 286; p. 718.
- King, Walter G., New York, N. Y., assignor to Julius King Optical Company. Welding-shield. No. 1,370,121; Mar. 1; v. 284; p. 69.
- King, Wesley B., Leasburg, Mo. Nut-lock device. No. 1,368,440; Feb. 15; v. 283; p. 410.
- King, William A., Memphis, Tenn. Collapsible seat. No. 1,373,079; Mar. 29; v. 284; p. 845.
- King, William A., Memphis, Tenn. Automobile-hood. No. 1,387,407; Aug. 9; v. 289; p. 359.
- King, William O., Sidney, and J. R., New Haven, N. Y. Machine for spreading crushed stone and other material. No. 1,376,944; May 3; v. 286; p. 108.
- Kings, Thomas W., Chicago, Ill. Carbureter. No. 1,379,346; May 24; v. 286; p. 748.
- Kingsbury, Albert. (See Dearborn, Richard J.)
- Kingsbury, Albert. (See Howarth, Harry A. S., assignor.)
- Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,378,544; May 17; v. 286; p. 523.
- Kingsbury, Albert, Pittsburgh, Pa. Thrust-bearing. No. 1,378,545; May 17; v. 286; p. 523.
- Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,378,546; May 17; v. 286; p. 523.
- Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,400,168; Dec. 13.
- Kingsbury, Albert, and H. A. S. Howarth, Pittsburgh, Pa.; said Howarth assignor to said Kingsbury. Bearing. No. 1,387,929; Aug. 16; v. 289; p. 514.
- Kingsbury, Albert, and H. A. S. Howarth, Pittsburgh, Pa.; said Howarth assignor to said Kingsbury. Bearing. No. 1,387,930; Aug. 16; v. 289; p. 514.
- Kingsbury & Davis Machine Company. (See Davis, Charles C., assignor.)
- Kingsbury, Edward J., Keene, N. H. Automatic drilling-machine. No. 1,379,765; May 31; v. 286; p. 900.
- Kingsbury Electroflush Co. (See Adell, Claude, assignor.)
- Kingsbury, Leon V. (See Heylman, E. M., Kingsbury, and Stickley.)
- Kingsley, Francis, New Rochelle, N. Y. Shoe-polishing apparatus. No. 1,373,662; Apr. 5; v. 285; p. 64.
- Kingsley, Lee, Syracuse, N. Y. Holder for adhesive binders. No. 1,375,520; Apr. 19; v. 285; p. 516.
- Kingsley, Bruce G., Los Angeles, Calif. Illuminating attachment for keyboard musical instruments. No. 1,401,608; Dec. 27.
- Kingsley, Ralph J., New York, N. Y. Electric fuse. No. 1,374,084; Apr. 5; v. 285; p. 137.
- Kingswell, Percy N. (See Clews, Charles E., assignor.)
- Kingswell, Percy N. (See Roberts, R. H., and Kingswell.)
- Kinhead, Robert S., St. Paul, and G. L. Willits and H. L. Downing, Minneapolis, Minn. Garden-tractor. No. 1,371,903; Mar. 15; v. 284; p. 519.
- Kinnear Manufacturing Company, The. (See McCloud, Edward H., assignor.)
- Kinnear Manufacturing Company, The. (See Rush, Albert, assignor.)



*Alphabetical list of patentees—Continued.*

- Kinney, Benjamin L., Janesville, assignor of one-half to O. B. Cornish, Fort Atkinson, Wis. Machine for capping bottles. No. 1,377,779; May 10; v. 286; p. 324.
- Kinney, Justus R., Allston, Mass. Pump. No. 1,400,822; Dec. 20.
- Kinney, Justus R., assignor to The Kinney Manufacturing Company, Boston, Mass. Road-oller. No. 1,382,731; June 28; v. 287; p. 622.
- Kinney Manufacturing Company, The. (See Kinney, Justus R., assignor.)
- Kinney, William R., Reading, Mich. Hub for rotary colters. No. 1,388,577; Aug. 23; v. 289; p. 698.
- Kinnear, Philo B., assignor of one-half to D. W. Lewis, Salt Creek, Wyo. Cementing wells. No. 1,381,645; June 14; v. 287; p. 302.
- Kins, Albert L., Farmington, Calif. Turning mechanism for tractors and the like. No. 1,388,579; Aug. 23; v. 289; p. 699.
- Kins, Albert L., assignor of one-half to L. H. Houston, Farmington, Calif. Tractor. No. 1,388,578; Aug. 23; v. 289; p. 699.
- Kinsey, Albert. (See Kinsey, Edison B., and A.)
- Kinsey, Edison B. and A., Prairie Depot, Ohio. Door-catch. No. 1,376,101; Apr. 26; v. 285; p. 660.
- Kinsman, Charles T., Binghamton, N. Y. Bunsen burner. No. 1,386,630; Aug. 9; v. 289; p. 203.
- Kinsman, Hermon H., and W. M. Gaylor, New York, N. Y. Game. No. 1,381,472; June 14; v. 287; p. 269.
- Kinzel, Augustus B., New York, N. Y. Spark-plug. No. 1,375,098; Apr. 19; v. 285; p. 436.
- Kinter, Charles W., Wellsburg, and G. Z. Smith, Follansbee, W. Va., assignors to Fuller-Lehigh Company, Fullerton, Pa. Switching-valve. No. 1,394,738; Oct. 25.
- Kintzele, Felix P., (See Kintzele, Julius H. and F. P.)
- Kintzele, Felix P., assignor to Krisman-Frey Jewelry Mfg. Co., Inc., St. Louis, Mo. Soft-collar holder. No. 1,385,176; July 19; v. 288; p. 528.
- Kintzele, Julius H., St. Louis, Mo., assignor, by mesne assignments, to Central Manufacturing Company. Gearing. No. 1,380,390; June 7; v. 287; p. 12.
- Kintzele, Julius H. and F. P., assignors to Keo Manufacturing Company, St. Louis, Mo. Buckle. No. 1,392,064; Sept. 27; v. 290; p. 733.
- Kinyon, Alonzo G., assignor to Powdered Coal Engineering & Equipment Company, Chicago, Ill. Apparatus for using powdered fuel. No. 1,396,761; Nov. 15.
- Kinzer, Alden. (See Kinzer, Douglas and A.)
- Kinzer, Douglas and A., Ottawa, Ill. Attachment for stalk-cutters. No. 1,377,417; May 10; v. 286; p. 255.
- Klon, Max T., Washington, D. C. Flying-machine. No. 1,375,298; Apr. 19; v. 285; p. 475.
- Kipp, John P., Detroit, Mich. Pipe-joint fastener. No. 1,373,249; Mar. 29; v. 284; p. 880.
- Kipp, William F., Fort Lupton, Colo. Jar-closure. No. 1,382,985; June 28; v. 287; p. 670.
- Kippenhan, William, Kewaskum, Wis. Rod-coupling. No. 1,390,042; Sept. 6; v. 290; p. 98.
- Kiracofe, Otterbein, East Rutherford, N. J., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Roofing material and joining the ends of felt in making the same. No. 1,383,726; July 5; v. 288; p. 98.
- Kirby, Champeau Co. (See Champeau, Lawrence X., assignor.)
- Kirby, Charles H., assignor to Detroit Lubricator Company, Detroit, Mich. Carbureter. No. 1,387,275; Aug. 9; v. 289; p. 331.
- Kirby, Dee W., Gurdon, Ark. Cushion-tire. No. 1,383,818; July 5; v. 288; p. 116.
- Kirby, Frank, Flint, Mich. Tapping device for receptacles. No. 1,379,632; May 31; v. 286; p. 876.
- Kirby, Isaac, Oklahoma, Okla. Band-cutter and feeder for threshing-machines. No. 1,388,468; Aug. 23; v. 289; p. 679.
- Kirby, James B., Cleveland, Ohio. Lake or pond. No. 1,376,889; May 3; v. 286; p. 97.
- Kirby, James B., Cleveland, Ohio. Brushing mechanism for sweepers. No. 1,395,500; Nov. 1.
- Kirby, John, M. S. Hopkins, and C. B. Bernhart, Reading, Pa. Preparation of lead arsenate. No. 1,398,267; Nov. 29.
- Kirby, Phillip S., Denver, Colo. Embroidery-needle. No. 1,396,849; Nov. 15.
- Kirchenbauer, Louis J., Chicago, Ill. Crank-pin lathe. No. 1,372,075; Mar. 22; v. 284; p. 609.
- Kircher, Paul. (See Gruenfeld, J. J., Jr., and Kircher.)
- Kircher, Paul, and J. J. Gruenfeld, Jr., assignors to Massey Concrete Products Corporation, Chicago, Ill. Pole and step therefor. No. 1,369,114; Feb. 22; v. 283; p. 580.
- Kirchhoff, William G. (See Baule, A. B., and Kirchhoff.)
- Kirchner, Henry W., St. Louis, Mo. Clamp for freight-carriers. No. 1,396,961; Nov. 15.
- Kirgan, John F., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J. Spray-head. No. 1,381,646; June 14; v. 287; p. 303.
- Kirgan, John F., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Spray-head. No. 1,383,404; July 5; v. 288; p. 31.
- Kiriakou, Thomas J., Indianhead, Md. Stationary self-cleaning shaving-cup. No. 1,383,639; July 5; v. 288; p. 79.
- Kirino, Charles, Ogden, Utah. Coring means for tomato-peeling machines. No. 1,366,188; Jan. 18; v. 282; p. 498.
- Kirk, Edward S. (See Summers, J. H., and Kirk.)
- Kirk, Frank P., St. Albans, Vt. Lock-nut. No. 1,378,681; May 17; v. 286; p. 549.
- Kirk, George E., Toledo, Ohio. Humidity-governor. No. 1,365,038; Jan. 11; v. 282; p. 236.
- Kirk, Jay B., Iola, Kans. Scraper. No. 1,371,792; Mar. 15; v. 284; p. 499.
- Kirk-Latty Manufacturing Company, The. (See Sleffel, William J., assignor.)
- Kirk, Laurence H. (See Lipe, W. C., and Kirk.)
- Kirk, Robert B., and J. B. Young, Olden, Tex. Cooking utensil. No. 1,399,866; Dec. 13.
- Kirk, Thomas S. (See Pringle, A., and Kirk.)
- Kirk, Walter I. (See Jefferson, B. H., and Kirk.)
- Kirk, Walter I., assignor to Lyon & Healy, Chicago, Ill. Tailpiece for stringed instruments. No. 1,367,526; Feb. 1; v. 283; p. 128.
- Kirkeby, John, San Luis Obispo, Calif. Automatic gear-shifting device. No. 1,391,193; Sept. 20; v. 290; p. 483.
- Kirkham, Charles B., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Aeronautical motor. No. 1,370,692; Mar. 8; v. 284; p. 223.
- Kirkham, Charles B., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Valve-operating mechanism. No. 1,375,432; Apr. 5; v. 285; p. 10.
- Kirkham, Charles B., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Reduction-gearing. No. 1,392,276; Sept. 27; v. 290; p. 775.
- Kirkham, Charles B., Nassau Boulevard, N. Y., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation. Pump. No. 1,386,787; Aug. 9; v. 289; p. 235.
- Kirkham, Charles B., Nassau Boulevard, assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Radiator for airplanes. No. 1,398,330; Nov. 29.
- Kirkham, Charles B., Garden City, and A. L. Thurston, Hempstead, N. Y., assignors to Curtiss Aeroplane and Motor Corporation. Airplane landing-gear. No. 1,392,277; Sept. 27; v. 290; p. 776.
- Kirkham, Charles B., Garden City, and A. L. Thurston, Hempstead, N. Y., assignors to Curtiss Aeroplane and Motor Corporation. Fuselage. No. 1,392,278; Sept. 27; v. 290; p. 776.
- Kirkland, David K., Athens, Tex. Can-opener. No. 1,367,484; Feb. 1; v. 283; p. 120.
- Kirkland, Jesse, Povo, Tenn. Horse-detacher. No. 1,386,005; Aug. 2; v. 289; p. 8.
- Kirtley, Simeon B., Columbia, Mo. Account-ledger. No. 1,399,776; Dec. 13.
- Kirkpatrick, Charles W., New York, N. Y. Money-receptacle. No. 1,378,682; May 17; v. 286; p. 550.
- Kirkpatrick, Grace E., Leadwood, Mo. Biscuit and doughnut cutter. No. 1,390,138; Sept. 6; v. 290; p. 117.
- Kirkpatrick, James, Philadelphia, Pa. Block-printing machine. No. 1,372,701; Mar. 29; v. 284; p. 770.
- Kirkpatrick, Otey R., Fort Worth, Tex. Monkey-wrench. No. 1,364,937; Jan. 11; v. 282; p. 216.
- Kirkwood, Charles A., Chicago, Ill. Gas-heater. No. 1,390,296; Sept. 13; v. 290; p. 240.
- Kirlin, Ivan, Evanston, Ill. Insulating-pane. No. 1,270,097; Mar. 8; v. 284; p. 277.
- Kirmes, Edwin W., Melrose, and A. C. Walworth, Jr., Newton, Mass. Insert for concrete construction. No. 1,386,509; Aug. 2; v. 289; p. 106.
- Kirn, Jacob K., Lancaster, Ohio. Music-staff. No. 1,373,250; Mar. 29; v. 284; p. 880.
- Kirsch, Charles W., Sturgis, Mich. Shade-roller hood. No. 1,388,346; Aug. 23; v. 289; p. 654.
- Kirsch, Otto. (See Schultz, O. R., and Kirsch.)
- Kirsch, Raymond R., St. Louis, Mo. Shoe-heel. No. 1,382,732; June 28; v. 287; p. 622.
- Kirschberg, Harold, Pittsburgh, Pa. Light-projector. No. 1,393,027; Oct. 11.
- Kirschbraun, Lester, Evanston, Ill. Waterproof composition. No. 1,401,791; Dec. 27.
- Kirshner, Arthur C. (See Dorsey, H. G., and Kirshner.)
- Kirshner, Arthur C., assignor to The National Cash Register Company, Dayton, Ohio. Credit-slip-authorizing apparatus. No. 1,385,788; July 26; v. 288; p. 729.
- Kirst, William E., assignor to The Dow Chemical Company, Midland, Mich. Manufacture of chlorhydrin. No. 1,386,118; Aug. 2; v. 289; p. 31.
- Kirstein, E. Sons Company. (See McDonell, William E., assignor.)
- Kirstin Company, A. J. (See Stopple, Walter W., assignor.)
- Kirtley, Richard E., Kansas City, Mo. Chemical-heater. No. 1,365,501; Jan. 11; v. 282; p. 324.
- Kirtley, Richard E., Kansas City, Mo. Chemical container. No. 1,371,627; Mar. 15; v. 284; p. 467.
- Kirwan, Leah M., Houston, Tex. Bandage. No. 1,386,936; Aug. 9; v. 289; p. 265.
- Kise, William K., Wichita, Kans. Gas-machine. No. 1,369,247; Feb. 22; v. 283; p. 606.
- Kishima, Denjiro, assignor to Hikoichiro Kishima, Oakland, Calif. Collar-ironing machine. No. 1,395,501; Nov. 1.
- Kishima, Hikoichiro. (See Kishima, Denjiro, assignor.)



## Alphabetical list of patentees—Continued.

- Kiss, Andrew, Philadelphia, Pa. Delivery-receptacle. No. 1,371,377; Mar. 15; v. 284; p. 418.
- Kissel Motor Car Company. (See Palmer, Herman D., assignor.)
- Kissinger, Robert C., Dayton, Ohio. Tire-carrier. No. 1,392,507; Oct. 4.
- Kistner, Herman, Elizabeth, N. J. Clothesline-clamp. No. 1,385,837; July 26; v. 288; p. 738.
- Kistner, Herman, Elizabeth, assignor, by mesne assignments, to Victory Hammered Piston Ring Company, Newark, N. J. Packing-ring. No. 1,393,542; Oct. 11.
- Kitchel, Robert R., Ridley Park, Pa. Lawn-mower. No. 1,389,249; Aug. 30; v. 289; p. 887.
- Kitchen, Claire. (See Kitchen, Grover C. and C.)
- Kitchen, Grover C. and C., Frederick, Kans. Incubator. No. 1,368,562; Feb. 15; v. 283; p. 454.
- Kitchen, John G. A., Lancaster, England. Means for varying the speed and stopping way of aircraft without slowing the propeller. No. 1,392,831; Oct. 4.
- Kitchen, John G. A., Scottford, Lancaster, England, assignor of one-half to Gordon H. Fraser, Liverpool, England, and James R. O'Hanlon, Westvold, Blundellsands, England. Rudder-operating gear. No. 1,371,492; Mar. 15; v. 284; p. 441.
- Kitchen, Lewis E., Indianapolis, Ind. Oil-gage for motor-cars. No. 1,395,682; Nov. 1.
- Kitsee, Isidor, Philadelphia, Pa. Producing nitrating liquor. No. 1,380,392; June 7; v. 287; p. 13.
- Kitsee, Isidor, Philadelphia, Pa. Producing matrices and color-screens therefrom. No. 1,383,819; July 5; v. 288; p. 117.
- Kitsee, Isidor, Philadelphia, Pa. Method and means of producing artificial silk. No. 1,389,517; Aug. 30; v. 289; p. 940.
- Kitsee, Isidor, Philadelphia, Pa. Dissolving cellulose. No. 1,390,995; Sept. 20; v. 290; p. 443.
- Kitt, Frederick T., Seattle, Wash., assignor, by mesne assignments, to American Car and Foundry Company, New York, N. Y. Electric rivet-heater. No. 1,374,453; Apr. 12; v. 285; p. 249.
- Kittelsen, Erling. (See Kittelsen, Trygve and E.)
- Kittelsen, Trygve, Christiania, and E. Kittelsen, parish of Bidsvold, Norway. Manufacture of semicellulose. No. 1,365,039; Jan. 11; v. 282; p. 236.
- Kitterman, Jesse C., Croydon, Ind. Wagon-tongue. No. 1,390,792; Sept. 13; v. 290; p. 339.
- Kittinger, John. (See Gough, Charles M., assignor.)
- Kittoe, Philip F., Galena, Ill. Circuit-breaker. No. 1,380,216; May 31; v. 286; p. 986.
- Kittredge, John W., Akron, Ohio. Derrick. No. 1,384,960; July 19; v. 288; p. 483.
- Kittredge, Rufus J., Chicago, Ill. Phonograph. No. 1,368,264; Feb. 15; v. 283; p. 375.
- Kivlan, John L., Boston, Mass. Jar-closure. No. 1,383,215; June 28; v. 287; p. 714.
- Kizer, Thomas S., Chattanooga, Okla. Socket-wrench. No. 1,395,585; Nov. 1.
- Kjekstad, Johannes, Brooklyn, N. Y. Alternating-current arc-welding system. No. 1,368,507; Feb. 15; v. 283; p. 423.
- Kjølseth, Hans E., Porsgrund, Norway. Mechanism for sliding doors, drawers, and the like. No. 1,386,119; Aug. 2; v. 289; p. 31.
- Kjorlien, Edwin, Minneapolis, Minn. Cooling system for internal-combustion-engine pistons. No. 1,394,844; Oct. 25.
- Klabunde, William, Florence, Nebr. Direction-indicator. No. 1,367,190; Feb. 1; v. 283; p. 61.
- Klages, Reynold E., Columbus, Ohio. Drag-link. No. 1,384,261; July 12; v. 288; p. 257.
- Klahn, Arthur H., San Francisco, Calif. Flushing apparatus. No. 1,383,273; June 28; v. 287; p. 725.
- Klahre, James A., and H. A. Kleinschmidt, Johnstown, Pa. Gas-burner holder. No. 1,372,145; Mar. 22; v. 284; p. 622.
- Klare, Henry R., and A. H. Grosz, New Orleans, La. Automobile-wheel attachment. No. 1,372,958; Mar. 29; v. 284; p. 822.
- Klath, Ruth J., Adams, N. D. Hem-gage. No. 1,379,347; May 24; v. 286; p. 749.
- Klatt, Herman, Pueblo, Colo. Windshield wiper, washer and cleaner. No. 1,369,817; Mar. 1; v. 284; p. 13.
- Klatt, William A., et al. (See Weier, Jacob J., assignor.)
- Klauber, Edward. (See Monro, R. and Klauber.)
- Klauber, Laurence M. (See Symons, W. H., and Klauber.)
- Klauber, Laurence M., assignor of one-half to The San Diego Consolidated Gas & Electric Company, San Diego, Calif. Oil-testing apparatus. No. 1,371,378; Mar. 15; v. 284; p. 418.
- Klauber, Laurence M., assignor of one-half to San Diego Consolidated Gas & Electric Company, San Diego, Calif. Automatic circuit-controlling apparatus. No. 1,395,046; Oct. 25.
- Klauber, Charles, New York, N. Y. Brush for cleaning bottles. No. 1,377,690; May 10; v. 286; p. 306.
- Klauer, William H., Dubuque, Iowa. Metal ceiling. No. 1,400,882; Dec. 20.
- Klaus, Fred R., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Wire-wheel rim and making same. No. 1,383,467; July 5; v. 288; p. 43.
- Klausmeyer, David C., Cincinnati, assignor to The Cincinnati Blckford Tool Company, Oakley, Cincinnati, Ohio. Radial drill. No. 1,374,581; Apr. 12; v. 285; p. 274.
- Klavon, Frank A. and J. J., Pittsburgh, Pa. Roller-bearing. No. 1,372,146; Mar. 22; v. 284; p. 622.
- Klavon, James J. (See Klavon, Frank A. and J. J.)
- Klaxon Company. (See McConnell, Duncan A., assignor.)
- Klaxton Company. (See Wheelock, John H., assignor.)
- Klay, Abraham B., Beavercamp, Ohio. Wheel-puller. No. 1,376,340; Apr. 26; v. 285; p. 705.
- Klay, Andrew, Lima, Ohio. Grinder. No. 1,389,588; Sept. 6; v. 290; p. 6.
- Klay, William F., Modesto, Calif. Vehicle-wheel. No. 1,371,793; Mar. 15; v. 284; p. 499.
- Klebba, Eileen M. (See Michaelsen, William P., assignor.)
- Kleckler, Henry. (See Curtiss, G. H., and Kleckler.)
- Kleckler, Henry, Hempstead, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Airplane landing-gear. No. 1,370,693; Mar. 8; v. 284; p. 224.
- Kleckler, Henry, Hempstead, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Control-column. No. 1,373,433; Apr. 5; v. 285; p. 10.
- Kleckler, Henry, Garden City, assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Flying-boat hull. No. 1,392,270; Sept. 27; v. 290; p. 776.
- Kleckley, Alvin L., Charlotte, N. C. Piston-ring remover. No. 1,391,548; Sept. 20; v. 290; p. 556.
- Kleckner, Arthur C., assignor to Webster Electric Company, Racine, Wis. Oscillating ignition-magneto. No. 1,378,873; May 24; v. 286; p. 658.
- Kleckner, Arthur C., assignor to Webster Electric Company, Racine, Wis. Ignition apparatus. No. 1,395,429; Nov. 1.
- Kleebauer, Charles P., Brooklyn, assignor to Cohoes Envelope Co., Inc., Cohoes, N. Y. Shipping-tag envelop. No. 1,382,426; June 21; v. 287; p. 510.
- Kleebauer, Charles P., Brooklyn, assignor to Cohoes Envelope Co., Inc., Cohoes, N. Y. Clasp-envelop. No. 1,382,427; June 21; v. 287; p. 510.
- Kleidman, Joseph, New York, N. Y. Paper-feeding machine. No. 1,374,303; Apr. 12; v. 285; p. 219.
- Kleidman, Joseph, assignor to Pegasus Indicator Manufacturing Co., Inc., New York, N. Y. Indicating instrument for automobile-radiators. No. 1,387,890; Aug. 16; v. 289; p. 507.
- Klein, Abraham A. (See Purdy, R. C., Beecher, and Klein.)
- Klein, Arthur A., Homestead, Pa. Air-drilling machine. No. 1,366,126; Jan. 18; v. 282; p. 486.
- Klein, Benjamin, Chicago, Ill. Tool-sharpening gage. No. 1,374,582; Apr. 12; v. 285; p. 274.
- Klein, Benjamin W., New York, N. Y. Service establishment and customer's waiting room therefor. No. 1,399,390; Dec. 6.
- Klein, Charles H., Chaska, Minn. Brick-drier. No. 1,368,940; Feb. 15; v. 283; p. 507.
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Lamp-socket. No. 1,378,467; May 17; v. 286; p. 507.
- Klein, Deo, Gillespie, Ill. Mixer. No. 1,401,609; Dec. 27.
- Klein, Emanuel, New York, N. Y. Edible fatty product from fixed oils and fats and manufacturing same. No. 1,381,564; June 14; v. 287; p. 287.
- Klein, George C., Houston, Tex. Faucet. No. 1,401,412; Dec. 27.
- Klein, Gustaf E., Chicago, Ill. Window-sash counter-balance. No. 1,397,129; Nov. 15.
- Klein, Harry, Freeport, N. Y. Lamp-securing means. No. 1,384,961; July 19; v. 288; p. 483.
- Klein, Herbert F., Deerfield, Wis. Hand-truck. No. 1,374,379; Apr. 12; v. 285; p. 234.
- Klein, John, Washington, D. C. Spring-support for automobiles. No. 1,371,904; Mar. 15; v. 284; p. 519.
- Klein, John O., Alliance, Ohio. Tie and rail-fastener. No. 1,396,581; Nov. 8.
- Klein, Louis, et al. (See Lamb, Homer M.)
- Klein, Louis W., Pottsville, assignor to The Coxie Traveling Grate Company, Port Carbon, Pa. Traveling grate. No. 1,368,164; Feb. 8; v. 283; p. 307.
- Klein, Mathias J., New York, N. Y. Side-force and danger indicator. No. 1,368,941; Feb. 15; v. 283; p. 507.
- Klein, Mathias J., assignor of sixty one-hundredths to H. B. Roelker, New York, N. Y. Side-force and danger indicator. No. 1,370,320; Mar. 1; v. 284; p. 107.
- Klein, Otto G., Ste. Genevieve, Mo. Envelop. No. 1,401,792; Dec. 27.
- Klein, Walter G. (See Genung, George J., assignor.)
- Klein, William C., Allentown, Pa. Vehicle-drive. No. 1,393,543; Oct. 11.
- Kleinberg, Victor, et al. (See Merli, C., and Bertolini, assignors.)
- Kleine, Harry A., Jersey City Heights, N. J. Auto-license-indicating device. No. 1,372,436; Mar. 22; v. 284; p. 678.
- Kleine, Harry A., Jersey City Heights, N. J. Vehicle-fender. No. 1,373,822; Apr. 5; v. 285; p. 86.
- Kleineck, Roy J., Oxford Junction, Iowa. Tire-chain. No. 1,380,215; May 31; v. 286; p. 986.
- Kleinert, I. B., Rubber Co. (See Guinzburg, George K., assignor.)
- Kleinert, I. B., Rubber Company. (See Cohn, Charles C., assignor.)
- Kleinert, I. B., Rubber Company. (See Guinzburg, Victor, assignor.)
- Kleinman, Jacob L., New York, N. Y. Saw-blade. No. 1,368,441; Feb. 15; v. 283; p. 410.



- Kleinschmidt, Henry F. A. (See Klahre, J. A., and Kleinschmidt.)
- Kleist, John C. (See Fenske, Daniel, assignor.)
- Kleist, John C., *et al.* (See Hampden, Wellesley R., assignor.)
- Klem, Gabriel, Gardenton, Manitoba, Canada. Submarine wireless telegraph device. No. 1,391,836; Sept. 27; v. 290; p. 686.
- Klemm, Charles, Lawrence, Mass. Reversible brush-handle. No. 1,383,820; July 5; v. 288; p. 117.
- Klemm, Edwin O., assignor to Klemm Manufacturing Company, Saginaw, Mich. Stop mechanism for talking-machines. No. 1,385,689; July 26; v. 288; p. 709.
- Klemm, Edwin O., Dayton, Ohio, assignor to Klemm Manufacturing Company, Saginaw, Mich. Stop mechanism for graphophones. No. 1,385,690; July 26; v. 288; p. 709.
- Klemm Manufacturing Company. (See Klemm, Edwin O., assignor.)
- Klenck, John H., Clarendon, Pa. Article-holder. No. 1,372,959; Mar. 29; v. 284; p. 823.
- Klenck, John H., and M. W. Larsen, Warren, Pa. Lock for block-signal-controlling levers. No. 1,364,285; Jan. 4; v. 282; p. 47.
- Klencke, Hans. (See Schmiedel, T., and Klencke.)
- Klenke, August C., San Francisco, Calif. Toy vehicle. No. 1,372,623; Mar. 22; v. 284; p. 714.
- Kless, Herman L., Houston, Tex. Safety-lock for doors and the like. No. 1,381,999; June 21; v. 287; p. 429.
- Klett, Robert E., Ridgefield Park, N. J. Colorimeter. No. 1,375,708; Apr. 26; v. 285; p. 585.
- Klicka, Rudolf, Pittsburgh, Pa. Dentist's cabinet. No. 1,388,347; Aug. 23; v. 289; p. 651.
- Kliemann, Robert M., Baltimore, Md. Talking-board table. No. 1,386,631; Aug. 9; v. 289; p. 203.
- Kliesrath, Victor W., assignor to The Simms Magneto Company, East Orange, N. J. System of interselective distribution of secondary armature-currents. No. 1,369,342; Feb. 22; v. 283; p. 624.
- Kliesrath, Victor W., East Orange, and R. Knopp, Montclair, assignors to The Simms Magneto Company, East Orange, N. J. Impulse-starter coupling for magnetos. No. 1,365,700; Jan. 18; v. 282; p. 403.
- Kliesrath, Victor W., East Orange, and R. Knopp, Montclair, assignors to The Simms Magneto Company, East Orange, N. J. Coil-spring. No. 1,365,701; Jan. 18; v. 282; p. 403.
- Kliesrath, Victor W., and F. A. Hoyt, assignors to The Simms Magneto Company, East Orange, N. J. Ignition apparatus for internal-combustion engines. No. 1,398,491; Nov. 29.
- Kline, August J., *et al.* (See White, Ernest M., assignor.)
- Kline, Fred J., New York, N. Y. Paper-fastener. No. 1,378,242; May 17; v. 286; p. 465.
- Kline, Harmon J., Lansing, Mich. Internal-combustion engine. No. 1,387,408; Aug. 9; v. 289; p. 359.
- Kline, Karl, Whiteriver, S. D. Ice-cutting machine. No. 1,380,977; June 7; v. 287; p. 126.
- Kline, Lawrence J., assignor to Mercury Manufacturing Company, Chicago, Ill. Tractor. No. 1,391,779; Sept. 27; v. 290; p. 674.
- Kline, Louis F., Walla Walla, Wash. Building-block. No. 1,369,115; Feb. 22; v. 283; p. 580.
- Kline, Morris, Cleveland, Ohio. Advertising change-tray. No. 1,389,365; Aug. 30; v. 289; p. 910.
- Kline, Paul E., Bridgeville, Pa. Auxiliary air-feed. No. 1,385,213; July 19; v. 288; p. 536.
- Kline, William. (See Genth, C. H., and Kline.)
- Klineline, George M., Harrisburg, Pa. Automobile-rim. No. 1,381,565; June 14; v. 287; p. 288.
- Kling, F. E., *et al.* (See Geesman, Wilbur H., assignor.)
- Kling, Fred E., Youngstown, Ohio. Feed mechanism. No. 1,370,593; Mar. 8; v. 284; p. 204.
- Kling, Fred E., Youngstown, Ohio. Buckstay-shoe. No. 1,399,127; Dec. 6.
- Kling, Fred E., Youngstown, and L. B. Weidlein, Cleveland, Ohio. Filtering-mat. No. 1,395,833; Nov. 1.
- Kling, Fred E., Youngstown, and L. B. Weidlein, Cleveland, Ohio. Vibrating mechanism. No. 1,400,169; Dec. 13.
- Klingbeil, Gottlieb L. E., Omaha, Nebr. Device for facilitating the lubrication of vehicle-springs. No. 1,374,583; Apr. 12; v. 285; p. 274.
- Klingbeil, Gottlieb L. E., Omaha, Nebr. Child's educational and amusement device. No. 1,378,874; May 24; v. 286; p. 659.
- Klingbeil, Gottlieb L. E., Omaha, Nebr. Device for facilitating the lubrication of vehicle-springs. No. 1,382,653; June 28; v. 287; p. 607.
- Klingbeil, Gottlieb L. E., Omaha, Nebr. Extension adjustable handle. No. 1,390,621; Sept. 13; v. 290; p. 306.
- Klingbeil, Gottlieb L. E., Omaha, Nebr. Adjustable extension-handle. No. 1,396,850; Nov. 15.
- Klingberg, Walter H. (See Ringham, C., and Klingberg.)
- Klingberg, Willgot, *et al.* (See Dunham, Millbourne K., assignor.)
- Klinger, Peter W. (See Walther, G., and Klinger.)
- Klinker, Lawrence, San Francisco, Calif. Automobile theft-signal. No. 1,371,691; Mar. 15; v. 284; p. 480.
- Klinkhamer, Hendrik A. W., Hengelo, Netherlands. Resistance measurement. No. 1,378,547; May 17; v. 286; p. 523.
- Klip-Lox Box Fastener Company. (See Trohon, William G., assignor.)
- Klock, Frank B., Little Falls, N. Y. Convertible wheel or sleigh vehicle. No. 1,375,008; Apr. 19; v. 285; p. 418.
- Klock, George W., Syracuse, N. Y. Counterbalance for duck-decoys. No. 1,392,065; Sept. 27; v. 290; p. 733.
- Klocke, William H., Woodhaven, assignor of one-half to H. F. Hughes, Brooklyn, N. Y. Disk wheel for vehicles. No. 1,383,728; July 5; v. 288; p. 98.
- Klocke, William H., Woodhaven, assignor of one-half to H. F. Hughes, Brooklyn, N. Y. Rear wheel for motor-vehicles. No. 1,394,739; Oct. 25.
- Klocke, William H., Woodhaven, assignor of one-half to H. F. Hughes, Brooklyn, N. Y. Nut-lock. No. 1,394,740; Oct. 25.
- Klocke, William H., Woodhaven, assignor of one-half to H. F. Hughes, Brooklyn, N. Y. Nut-lock. No. 1,394,741; Oct. 25.
- Kloer, Charles H., Jersey City, N. J. Gear-release. No. 1,388,651; Aug. 23; v. 289; p. 713.
- Klohs, Frank A., assignor to The Ohio Brass Company, Mansfield Ohio. Reeling device. No. 1,366,189; Jan. 18; v. 282; p. 498.
- Klohn, Nicholas J., St. Paul, Minn. Signaling device for vehicles. No. 1,377,691; May 10; v. 286; p. 306.
- Klokner, Alexander, Wauwatosa, Wis. Clamp for greenhouse-roofs. No. 1,387,409; Aug. 9; v. 289; p. 359.
- Kloman, Theodore W., Park Ridge, N. J. Internal-combustion engine. No. 1,399,262; Dec. 6.
- Kloneck, August J., New York, N. Y. Rotary spark-gap. No. 1,366,160; Jan. 18; v. 282; p. 493.
- Kloneck, August J., New York, N. Y. Amplifying-relay. No. 1,369,284; Feb. 22; v. 283; p. 612.
- Kloneck, August J., New York, N. Y. Explosion-motor. No. 1,371,905; Mar. 15; v. 284; p. 520.
- Kloneck, August J., New York, N. Y. Generating system for electric currents. No. 1,374,170; Apr. 5; v. 285; p. 153.
- Kloneck, August J., New York, N. Y. Rotary spark-gap. No. 1,382,786; June 28; v. 287; p. 633.
- Klopfenstein, Robert S., assignor to National Lock-In-Tank Company, Wichita, Kans. Fluid-control lock for tanks. No. 1,376,283; Apr. 26; v. 285; p. 694.
- Klopper, August C., Asbury Park, N. J. Wrench. No. 1,385,214; July 19; v. 288; p. 536.
- Klopsteg, Paul E. (See Loomis, A. L., Klopsteg, Agnew, and Stannard.)
- Klos, Max T., Wausau, Wis. Sack or bag holder. No. 1,372,147; Mar. 22; v. 284; p. 622.
- Klosinski, Stanislaw. (See Fwarogowski, A., and Klosinski.)
- Kloss, Theophilus, Mankato, Minn. Cereal coffee. No. 1,377,838; May 10; v. 286; p. 336.
- Klosters Aktie Bolag. (See Ohlsson, Johan A., assignor.)
- Klots, Ephraim D., New York, N. Y. Apparatus for generating terpene ozonid vapor. No. 1,386,410; Aug. 2; v. 289; p. 88.
- Klug Albert A., A. M. and E. S. Reynolds, Delton, Wis. Luggage-carrier. No. 1,377,997; May 10; v. 286; p. 366.
- Klug, Louis E., assignor to Rub-Tex Products, Inc., Indianapolis, Ind. Process and apparatus for the manufacture of rubber jars. No. 1,394,558; Oct. 25.
- Kluga, Felix. (See Kluga, Vincent and F.)
- Kluga, Vincent and F., Niagara Falls, N. Y. Automobile water-pump. No. 1,394,025; Oct. 18.
- Klumpp, Emil, Buffalo, N. Y. Aerial propeller. No. 1,368,732; Feb. 15; v. 283; p. 467.
- Klumpp, Gottlob, New York, N. Y. Hose-coupling. No. 1,386,260; Aug. 2; v. 289; p. 59.
- Klund, Frederic P., assignor to Hammermill Paper Company, Erie, Pa. Watermarking device. No. 1,386,411; Aug. 2; v. 289; p. 88.
- Knaak, George A., Milwaukee, Wis. Pressure member. No. 1,385,378; July 26; v. 288; p. 645.
- Knabe, Henry A., assignor to Burgess Battery Company, Madison, Wis. Recovering components of exhausted dry-battery cells. No. 1,366,082; Jan. 18; v. 282; p. 478.
- Knadler, Frederick, assignor to The National Malleable Castings Company, Cleveland, Ohio. Manufacture of cast-steel chain. No. 1,365,702; Jan. 18; v. 282; p. 403.
- Knaggs, John H., Coeur d'Alene, Idaho. Endless-runner wheel. No. 1,367,820; Feb. 8; v. 283; p. 243.
- Knap, Thomas S., Brookline, Mass. Shaving-mirror. No. 1,379,991; May 31; v. 286; p. 943.
- Knapik, Frank C., Baltimore, Md. Toe-bolt. No. 1,400,364; Dec. 13.
- Knapp, A. C., Kewanee, Ill. Jar-closure. No. 1,381,473; June 14; v. 287; p. 270.
- Knapp Brothers Manufacturing Company. (See Knapp, George A., assignor.)
- Knapp, Charles, Minneapolis, Minn. Automobile-lock. No. 1,391,390; Sept. 20; v. 290; p. 523.
- Knapp, David R. (See Golden, Thomas B., assignor.)
- Knapp, David R., Pottsville, Pa. Boiler feed-water regulator. No. 1,376,102; Apr. 26; v. 285; p. 660.
- Knapp, Emanuel W., Nevada, Ohio. Tire-retaining rim for automobile-wheels. No. 1,390,043; Sept. 6; v. 290; p. 98.



## Alphabetical list of patentees—Continued.

- Knapp, Fred. H., Company. (See Dewey, H. G., and Knapp, assignors.)
- Knapp, Fred H., Company. (See Knapp, F. H., and Dewey, assignors.)
- Knapp, Frederick H. (See Dewey, H. G., and Knapp.)
- Knapp, Frederick H., Baltimore, Md. Ear-butting machine. No. 1,366,568; Jan. 25; v. 282; p. 617.
- Knapp, Frederick H., Baltimore, and H. G. Dewey, assignors to Fred H. Knapp Company, Westminster, Md. Can-wrapping machine. No. 1,370,750; Mar. 8; v. 284; p. 235.
- Knapp, George A., Chicago, Ill., assignor to Knapp Brothers Manufacturing Company. Metal facing for inside of window-openings. No. 1,393,792; Oct. 18.
- Knapp, George N., St. Louis, Mo. Automatic pipe-coupling. No. 1,378,468; May 17; v. 286; p. 505.
- Knapp, Glenn A., Hugoton, Kans. Lid-lifter for receptacles. No. 1,374,017; Apr. 5; v. 285; p. 124.
- Knapp, Horace G. and R. I., and R. G. Fleming, assignors to The Knapp Plow Company, San Jose, Calif. Plow-lift. No. 1,364,439; Jan. 4; v. 282; p. 76.
- Knapp, James D., Conneautville, Pa. Knockdown saw-holder. No. 1,371,692; Mar. 15; v. 284; p. 480.
- Knapp, John C., Philadelphia, Pa. Plumb or level device. No. 1,373,336; Mar. 29; v. 284; p. 897.
- Knapp, Karl W., Des Moines, Iowa, and W. G. Holmes, Minneapolis, assignors to M. F. Patterson Dental Supply Company, St. Paul, Minn. Heating device. No. 1,401,793; Dec. 27.
- Knapp Plow Company, The. (See Knapp, H. G. and R. I., and Fleming, assignors.)
- Knapp, Robert I. (See Knapp, H. G. and R. I., and Fleming.)
- Knappen Finance Company. (See Shoemaker, Alvin H., assignor.)
- Knapp, Walter C., assignor to Liberty Bread Slicer, Inc., Rochester, N. Y. Slicing-machine. No. 1,380,393; June 7; v. 287; p. 13.
- Knapp, Walter C., and H. T. Lockman, Rochester, N. Y., assignors to Liberty Bread Slicer, Inc., Brighton Station, Rochester, N. Y. Slicing-machine. No. 1,401,539; Dec. 27.
- Knapp, William, Bayonne, N. J. Vehicle-mirror. No. 1,377,355; May 10; v. 286; p. 244.
- Knapp, William, Bayonne, N. J. Lamp. No. 1,396,439; Nov. 8.
- Knappen Finance Company. (See Shoemaker, Alvin H., assignor.)
- Knappen, Karl G., Seattle, Wash. Vehicle-wheel. No. 1,383,405; July 5; v. 288; p. 31.
- Knappenberger, Jacob R., Penafloza, Kans., assignor to Deere & Company, Moline, Ill. Spreading device. No. 1,368,165; Feb. 8; v. 283; p. 308.
- Knauber, Albert P. (See Thompson, A. N., and Knauber.)
- Knaudtson, Arthur C., Bismarck, N. D. Safety-razor. No. 1,365,176; Jan. 11; v. 282; p. 262.
- Knauer, Ernst, assignor to Otto H. Krueger, Los Angeles, Calif. Railway-crossing. No. 1,364,938; Jan. 11; v. 282; p. 216.
- Knauff, John H., Milwaukee, Wis. Desk for bookkeeping-machines, &c. No. 1,384,530; July 12; v. 288; p. 313.
- Knaur, Laura L., Denison, Tex. Plaiting device. No. 1,386,180; Aug. 2; v. 289; p. 43.
- Knaus, August, Philadelphia, Pa. Article of jewelry. No. 1,385,691; July 26; v. 288; p. 709.
- Knauss, Frank V., Portsmouth, Ohio. Combined gas and coal range. No. 1,380,151; May 31; v. 286; p. 974.
- Kneass, Strickland L., assignor to William Sellers & Company, Inc., Philadelphia, Pa. Valve operating and locking mechanism. No. 1,379,927; May 31; v. 286; p. 931.
- Knecht, Harley C., Akron, Ohio. Apparatus for making rubber products. No. 1,374,584; Apr. 12; v. 285; p. 275.
- Kneen, Alfred F., Hastings-upon-Hudson, N. Y. Fine-wire-spooling machine. No. 1,370,321; Mar. 1; v. 284; p. 107.
- Kneffle, Albert C. (See Cameron, Frank, Jr., assignor.)
- Kneier, Joseph, assignor to H. J. Trenkamp, Cleveland, Ohio. Convertible stove-oven. No. 1,398,725; Nov. 29.
- Kneip, Elizabeth C., Maspeth, N. Y. Lantern. No. 1,388,267; Aug. 23; v. 289; p. 638.
- Knepper, George E., Altoona, Pa. Car-door mounting. No. 1,397,811; Nov. 22.
- Knibbier, Friederich J., Wettingen, Aargau, Switzerland. Plant for the treatment of fabric pieces. No. 1,365,175; Jan. 11; v. 282; p. 261.
- Knight, Albert B., Fairmont, W. Va. Machine for burning or glazing the edges and sides of glassware. No. 1,364,939; Jan. 11; v. 282; p. 216.
- Knight, Albert B., Fairmont, W. Va. Machine for grinding glassware. No. 1,364,940; Jan. 11; v. 282; p. 216.
- Knight American Patents Company, The. (See Knight, Charles Y., assignor.)
- Knight, Andrew J., Toledo, Ohio. Oil-burner. No. 1,391,481; Sept. 20; v. 290; p. 541.
- Knight, Arthur F., Schenectady, N. Y., assignor to General Electric Company. Prevention of objectionable voltage fluctuations on distributing systems. No. 1,365,502; Jan. 11; v. 282; p. 324.
- Knight, Arthur O., assignor to Worcester Office Supplies Company, Worcester, Mass. Stamp. No. 1,369,671; Feb. 22; v. 283; p. 288.
- Knight, Cecil Y. (See Garaner, J., and Knight.)
- Knight, Charles Y., Pasadena, Calif., assignor to The Knight American Patents Company, Chicago, Ill. Internal-combustion engine. No. 1,370,454; Mar. 1; v. 284; p. 133.
- Knight, Ellsworth L., Princeton, W. Va. Rail-fastener. No. 1,367,401; Feb. 1; v. 283; p. 103.
- Knight, Eugene V., New Albany, Ind., Wooden beam. No. 1,377,891; May 10; v. 286; p. 346.
- Knight, Eugene U. (See Kellogg, Charles B., assignor.)
- Knight, George B., Camden, N. J. Guard attachment for caps, hats, or other headgear. No. 1,376,816; May 3; v. 286; p. 83.
- Knight, Herbert, New York, N. Y. Process of and apparatus for soil treatment. (Reissue.) No. 15,151; July 12; v. 288; p. 356.
- Knight, James H., Westtown, Pa. Loose-leaf binder. No. 1,372,960; Mar. 29; v. 284; p. 823.
- Knight, James H., Westtown, Pa. Toy. No. 1,393,544; Oct. 11.
- Knight, James H., Westtown, Pa. Framing and miter gage. No. 1,397,589; Nov. 22.
- Knight, John H., deceased, West Palm Beach, Fla.; Laura D. Knight, administratrix. Soil-pulverizing device. No. 1,388,953; Aug. 30; v. 289; p. 828.
- Knight, Laura D., administratrix. (See Knight, John H.)
- Knight, Ralph F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon shoe-soles. No. 1,373,564; Apr. 5; v. 285; p. 36.
- Knight, Stanley H., Chicago, Ill. Measuring-faucet. No. 1,374,665; Apr. 12; v. 285; p. 290.
- Knight, Stephen. (See Rasmussen, Peter, assignor.)
- Knipp, Julius W., Indianapolis, assignor to W. F. Bockhoff, Richmond, Ind. Figure wheeled toy. No. 1,381,566; June 14; v. 287; p. 288.
- Knistrom, August, Binghamton, N. Y., assignor to The Tabulating Machine Company. Card-punching device. No. 1,397,007; Nov. 15.
- Knitter, Elmer T., Cleveland, Ohio. Wrench. No. 1,384,765; July 19; v. 288; p. 443.
- Knobbs, Charles H., Philadelphia, Pa. Priming-cup. No. 1,390,189; Sept. 6; v. 290; p. 117.
- Knoblauch, Charles F., assignor of one-half to I. Smith-dicken, St. Louis, Mo. Vehicle advertising device. No. 1,367,910; Feb. 8; v. 283; p. 259.
- Knoderer, Homer G., Englewood, N. J., assignor to General Electric Company. Conduit-body angle-adapter. No. 1,386,877; Aug. 9; v. 289; p. 253.
- Knoderer, Homer G., Englewood, N. J., assignor to General Electric Company. Chart for selecting outlet-boxes and covers. No. 1,390,044; Sept. 6; v. 290; p. 98.
- Knoderer, Homer G., Englewood, N. J., assignor to General Electric Company. Electrical fitting. No. 1,400,824; Dec. 20.
- Knoedler, Jacob L. (See Schlutz, Henry, assignor.)
- Knoell, Walter E., Tacoma, Wash. Aeroplane-wing. No. 1,390,563; Sept. 13; v. 290; p. 293.
- Knoles, Jesse T., Winnemucca, Nev. Automatic valve-controlling mechanism. No. 1,367,748; Feb. 8; v. 283; p. 229.
- Knoll, Lloyd M. (See Appleby, T., and Knoll.)
- Knoll, Lloyd M., assignor of one-fourth to T. Appleby, Philadelphia, Pa. Radio system. No. 1,394,026; Oct. 13.
- Knoll, Roy C., Milwaukee, Wis. Process of and apparatus for electric-arc welding. No. 1,381,647; June 14; v. 287; p. 303.
- Knoop, John H. W., Upper Darby, Pa. Mold for casting pigs for linotype-machines. No. 1,388,725; Aug. 23; v. 289; p. 728.
- Knoop, John H. W., Highland Park, Pa., assignor to Knoop Metal Feeder Company, Wilmington, Del. Metal-feeder for linotype and similar machines. No. 1,390,140; Sept. 6; v. 290; p. 117.
- Knoop Metal Feeder Company. (See Knoop, John H. W., assignor.)
- Knopp, Otto A., Oakland, Calif. Electric measuring and calibrating method. No. 1,372,821; Mar. 29; v. 284; p. 794.
- Knopp, Otto A., Oakland, Calif. Electrical measuring device. No. 1,399,968; Dec. 13.
- Knopp, Rudolph. (See Kliesrath, V. W., and Knopp.)
- Knopp, Virgil S. (See Frey, G. P., and Knopp.)
- Knorrr, Frederick J., assignor to M. R. Elkin, New York, N. Y. Hose-clamp. No. 1,390,564; Sept. 13; v. 290; p. 293.
- Knorrr, Royal G., Chadwick, Ill. Corn-planter attachment. No. 1,366,915; Feb. 1; v. 283; p. 7.
- Knoth, Conrad, Hillside, assignor to Hyatt Bearings Division, General Motors Corporation, Harrison, N. J. Grinding-machine. No. 1,389,311; Aug. 30; v. 289; p. 899.
- Knoth, Conrad, Hillside, assignor to Hyatt Bearings Division, General Motors Corporation, Harrison, N. J. Roll-winding machine. No. 1,394,095; Oct. 18.
- Knott, Eustace R., Sharon, Mass. Popcorn-sifting machine. No. 1,395,715; Nov. 1.
- Knott, Frank W. (See Blakely, W. W., and Knott.)
- Knott, Harry H. (See Hammer, Knott, and Jungbluth.)
- Knourek, William M., River Forest, Ill. Knife-holder for shapers. No. 1,368,403; Feb. 15; v. 283; p. 402.
- Knowles, Arthur F., Montclair, N. J. Ventilating-valve. No. 1,380,567; June 7; v. 287; p. 46.



- Knowles, Bernard A., Azalia, Mich. Teat-cup for milking-machines. No. 1,378,683; May 17; v. 286; p. 550.
- Knowles, Edward L., Alliance, Ohio. Holder. No. 1,370,122; Mar. 1; v. 284; p. 69.
- Knowles, Edward S., deceased, San Francisco, Calif., by decree of distribution of the estate to M. E. Knowles. Spinner fish-lure. No. 1,383,546; July 5; v. 288; p. 59.
- Knowles, Frank, West Englewood, N. J., assignor to William Fuld, Baltimore, Md. Fortune-telling device. No. 1,398,462; Nov. 29.
- Knowles, Frank W., Portland, Oreg. Beet-harvesting machine. No. 1,401,413; Dec. 27.
- Knowles, Frederick C. S., Freeport, N. Y. Rear signal device for vehicles. No. 1,393,291; Oct. 11.
- Knowles, James A., Baltimore, Md. Grinding-machine. No. 1,367,150; Feb. 1; v. 283; p. 54.
- Knowles, John, New Britain, Conn. Frame for planes. No. 1,390,505; Sept. 13; v. 290; p. 293.
- Knowles, Lloyd G., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Grinding-machine for belt-knives. No. 1,380,394; June 7; v. 287; p. 13.
- Knowles, Minnie E., by decree of distribution of estate. (See Knowles, Edward S.)
- Knowles, William H., Detroit, Mich. Internal-combustion engine. No. 1,379,348; May 24; v. 286; p. 749.
- Knowlson, Frederick. (See Winans, Wesley G., assignor.)
- Knowlson, Frederick, and J. H. Stevenson, Ann Arbor, Mich. Door-fastening mechanism. No. 1,370,975; Mar. 8; v. 284; p. 277.
- Knowlson, Frederick, and J. H. Stevenson, Ann Arbor, Mich. Door-fastener. No. 1,370,976; Mar. 8; v. 284; p. 277.
- Knowlton, Cutler D., Rockport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making cutters. No. 1,376,551; May 3; v. 286; p. 32.
- Knowlton, M. D., Company. (See Hoch, Otto M., assignor.)
- Knowlton, M. D., Company. (See Pearsall, Chester B., assignor.)
- Knowlton, M. D., Company. (See Seniour, C. R., Hoch, and Adams, assignors.)
- Knowlton, Harry W., and W. A. Newton, assignor to Knowlton & Newton Co., Inc., Lowell, Mass. Pipe-switch. No. 1,400,609; Dec. 20.
- Knowlton & Newton Co. (See Knowlton, H. W., and Newton, assignors.)
- Knox, Culver B., Glen Ridge, assignor to The Whitehead & Hoag Company, Newark, N. J. Salt-spout. No. 1,383,640; July 5; v. 288; p. 79.
- Knox, George F., assignor of one-half to L. G. Bohmrich, Milwaukee, Wis. Cooler. No. 1,377,692; May 10; v. 286; p. 306.
- Knox, George F., Milwaukee, Wis., assignor to The Unit Ice Machine Co. Refrigerating-compressor. No. 1,377,693; May 10; v. 286; p. 307.
- Knox, George S., Wilkinsburg, Pa. Cotton-harvester. No. 1,395,644; Nov. 1.
- Knox, Harley M., Penokee, Kans. Lifting-jack. No. 1,396,440; Nov. 8.
- Knox Hat Company. (See Montgomery, Robert C., assignor.)
- Knox, Luther L., Bellevue, Pa. Valve mechanism for reversing regenerative furnaces. No. 1,397,380; Nov. 15.
- Knox, Luther L., Bellevue, assignor to Blaw-Knox Company, Pittsburgh, Pa. Water-cooler for furnaces. No. 1,371,906; Mar. 15; v. 284; p. 520.
- Knox, Luther L., Bellevue, assignor to Blaw-Knox Company, Pittsburgh, Pa. Port-cooler for reversing regenerative furnaces. No. 1,385,008; July 19; v. 288; p. 493.
- Knox, Luther L., Avalon, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa. Kettle. No. 1,370,123; Mar. 1; v. 284; p. 69.
- Knox, Samuel L. G., San Francisco, Calif. Engine. No. 1,378,875; May 24; v. 286; p. 659.
- Knox, William J., Dubois, Pa. Side bearing for railway-cars. No. 1,387,852; Aug. 16; v. 289; p. 500.
- Knudsen, Jens P., Kødedy, Denmark. Artificial leg. No. 1,375,299; Apr. 19; v. 285; p. 475.
- Knudsen, Karsten, Grand Rapids, Mich., assignor to Electric Wheel Co., Associates, Springfield, Mass. Wheel. No. 1,366,083; Jan. 18; v. 282; p. 478.
- Knudsen, Karsten, Grand Rapids, Mich., assignor to Electric Wheel Co., Associates, Springfield, Mass. Flexible driving mechanism. No. 1,366,891; Jan. 25; v. 282; p. 681.
- Knudsen, Knud, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Motor-starting switch. No. 1,364,384; Jan. 4; v. 282; p. 65.
- Knudsen, Knud, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. No. 1,370,501; Mar. 1; v. 284; p. 142.
- Knudsen, Simon D., Chicago, Ill. Roof-truss. No. 1,391,122; Sept. 20; v. 290; p. 469.
- Knudson, Gustave P., Hurley, S. D. Wheel attachment. No. 1,394,680; Oct. 25.
- Knuth, Edwin C., Milwaukee, Wis. Concrete pile. No. 1,393,545; Oct. 11.
- Knutson, Alfred W., Galesburg, Ill., assignor to Rowe Manufacturing Co. Coupling. No. 1,388,268; Aug. 23; v. 289; p. 638.
- Kny-Scheerer Corporation, The. (See Winter, W. A., and Day, assignors.)
- Kobert, Frank P., Amityville, N. Y. Electric heating apparatus. No. 1,378,684; May 17; v. 286; p. 550.
- Kobert, Frank P., Amityville, assignor to Kobert Machine Company, Inc., New York, N. Y. Process and apparatus for working metals. No. 1,398,028; Nov. 22.
- Kobert Machine Company. (See Kobert, Frank P., assignor.)
- Kobis, Felix, Worcester, Mass. Combination monkey and pipe wrench. No. 1,393,028; Oct. 11.
- Koblos, John, Chicago, Ill. Portable book-holder. No. 1,379,766; May 31; v. 286; p. 900.
- Koch, Frank A., New York, N. Y. Figure toy. No. 1,364,881; Jan. 11; v. 282; p. 205.
- Koch, Georg, Darmstadt, Germany, assignor to Dr. E. Cadgene and O. Berg, Paterson, N. J. Weaving pile fabrics. No. 1,382,516; June 21; v. 287; p. 527.
- Koch, Georg, Darmstadt, Germany, assignor to E. Cadgene and O. Berg, Paterson, N. J. Weaving of pile fabrics. (Reissue.) No. 15,184; Aug. 30; v. 289; p. 951.
- Koch, George T., and A. L. Stallkamp, Homer, Ohio, assignors to The Ohio Fuel Supply Company, Pittsburgh, Pa. Acetylation of hydrocarbons and subsequent recovery of the products of the reaction. No. 1,374,666; Apr. 12; v. 285; p. 290.
- Koch, George T., and A. L. Stallkamp, Homer, Ohio, assignors to The Ohio Fuel Supply Company, Pittsburgh, Pa. Chlorinating hydrocarbons. No. 1,380,067; May 31; v. 286; p. 958.
- Koch, Hans, Eagle, Idaho. Wire form. No. 1,370,822; Mar. 8; v. 284; p. 249.
- Koch, Henry, Jamaica, N. Y., assignor to Dictograph Products Corporation. Telephone-switch separator. No. 1,372,437; Mar. 22; v. 284; p. 678.
- Koch, Henry W., San Francisco, Calif. Barrel-seal. No. 1,379,827; May 31; v. 286; p. 912.
- Koch, John H., and W. J. Larsen, assignors of one-fourth to J. H. Brady and one-fourth to H. C. Tibbitts, San Francisco, Calif. Book-making machine. No. 1,372,236; Mar. 22; v. 284; p. 640.
- Koch, Lydia B. (See Hirsch, Henry, assignor.)
- Koch, Nicholas E., Los Angeles, Calif. Sleeve-puller. No. 1,382,838; June 28; v. 287; p. 642.
- Koch, Otto L., Jr., Woodlyne, N. J. Binder or reinforcing-strip for books or leaves. No. 1,368,807; Feb. 15; v. 283; p. 481.
- Koch, Otto L., Jr., Woodlyne, N. J. End-binder for the record-sheets of player-pianos. No. 1,398,901; Nov. 29.
- Koch, Reinhold G., New York, N. Y. Insect-trap. No. 1,394,626; Oct. 25.
- Koch, Wehner A., et al. (See Bertrand, John A., assignor.)
- Kochendorfer, Frederic S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Impregnating-machine. No. 1,365,414; Jan. 11; v. 282; p. 307.
- Kochendorfer, Frederic S., Chicago, and H. Blount, Oak Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Reeling-machine. No. 1,365,413; Jan. 11; v. 282; p. 307.
- Kocher, Clinton F., Coats, Kans. Harvester-reel. No. 1,365,503; Jan. 11; v. 282; p. 325.
- Kocher, Rudolph A., San Francisco, Calif. Converting cellulose. No. 1,374,928; Apr. 19; v. 285; p. 403.
- Kocjan, Louis, Calumet, Mich. Fire-escape. No. 1,397,640; Nov. 22.
- Kock, Birger, Stockholm, Sweden. Integrating heat-quantity meter. No. 1,386,937; Aug. 9; v. 289; p. 265.
- Kocourek, Henry, Chicago, Ill. Securing device for detachable buttons. No. 1,376,817; May 3; v. 286; p. 83.
- Kodama, Isami, Philadelphia, Pa. Spark-plug. No. 1,368,036; Feb. 8; v. 283; p. 282.
- Koedding, William, St. Louis, Mo. Surface condenser. No. 1,394,627; Oct. 25.
- Koehler, Arthur J. (See Farrow, Irving J., assignor.)
- Koehler, Carl W., assignor to Booth Fisheries Company, Chicago, Ill. Smokehouse. No. 1,398,726; Nov. 29.
- Koehler, Edward H., Chicago, Ill. Phonograph-horn. No. 1,365,249; Jan. 11; v. 282; p. 276.
- Koehler, Edward J. (See Dickerson, Walter H., assignor.)
- Koehler, Edward J., Bronxville, assignor to Messenger Automatic Sales Corporation, New York, N. Y. Coin-vending machine. No. 1,394,559; Oct. 25.
- Koehler, Emma M., Evansville, Ind. Floral canopy. No. 1,390,566; Sept. 13; v. 290; p. 294.
- Koehler, Gustave J., Dayton, Ohio. Portable shower-bath fixture. No. 1,366,734; Jan. 25; v. 282; p. 650.
- Koehler, Kurt R., Merrill, Wis. Spark-intensifier. No. 1,388,348; Aug. 23; v. 289; p. 654.
- Koehler Manufacturing Company. (See Wheat, Grant, assignor.)
- Koehler, Maxemilean E., Washington, D. C. Filtering-flue for gas-ranges. No. 1,377,694; May 10; v. 286; p. 307.
- Koehler, Raymond. (See Whitcomb, J. A., and Koehler.)
- Koehring Company. (See Lichtenberg, Erich H., assignor.)
- Koehring Machine Company. (See Robb, John F., assignor.)
- Koehring Machine Company. (See Sheck, Oscar, assignor.)



## Alphabetical list of patentees—Continued.

- Koelkebeck, Carl W. A., Alliance, Ohio. Universal rolling-mill. No. 1,387,650; Aug. 16; v. 289; p. 459.
- Koella, Frederick E., Toledo, Ohio. Disk-film-feeding means. No. 1,364,505; Jan. 4; v. 282; p. 89.
- Koeller, Walter H. (See Mueller, A. Q. and Koeller.)
- Koeller, William F., assignor to Hancock Manufacturing Co., Charlotte, Mich. Automobile-door lock. No. 1,372,300; Mar. 22; v. 284; p. 652.
- Koenen, William H., St. Louis, Mo. Shoe-protector. No. 1,391,391; Sept. 20; v. 290; p. 523.
- Koenig, Alfred L., Chicago, Ill. Switch for stop-signals for automobiles. No. 1,333,821; July 5; v. 288; p. 117.
- Koenig, Arthur, Racine, Wis. Reversible engine-fan. No. 1,368,808; Feb. 15; v. 283; p. 481.
- Koenig, August, Lowell, assignor to The Lamson Company, Boston, Mass. Carrier-despatch system. No. 1,373,080; Mar. 29; v. 284; p. 845.
- Koenig, Charles J., New Baltimore, Mich. Collection-receptacle. No. 1,400,823; Dec. 20.
- Koenig, Frederick, Pittsburgh, Pa. Underfeed stoker. No. 1,393,292; Oct. 11.
- Koenig, Harry A., Philadelphia, Pa. Gas-iron. No. 1,333,216; June 28; v. 287; p. 714.
- Koenig, Joseph, Two Rivers, Wis. Propelling device. No. 1,369,672; Feb. 22; v. 283; p. 688.
- Koenig, Philipp, Cuero, Tex. Insecticide for boll-weevils. No. 1,395,919; Nov. 1.
- Koenig, William J., deceased, A. Allen, administratrix, assignor to R. J. De Rosa, Brooklyn, N. Y. Duplex lamp-socket. No. 1,392,176; Sept. 27; v. 290; p. 755.
- Koenigkramer, Frank. (See McManis, J. V., and Koenigkramer.)
- Koepke, Fred V., Lamoille, Ill. Photographic-printing apparatus. No. 1,373,893; Apr. 5; v. 285; p. 100.
- Koepf, Reinhart J., Cleveland, Ohio. Combustion-arrester for moving-picture machines. No. 1,379,449; May 24; v. 286; p. 767.
- Koeppe, Emma, *et al.* (See Hokanson, Charles, assignor.)
- Koerbitz, Fritz, San Francisco, Calif. Sound-reproducer mounting. No. 1,387,410; Aug. 9; v. 289; p. 360.
- Koerner, Max R., Elmwood, assignor to The A. J. Beaton Manufacturing Company, New Britain, Conn. Floor or ceiling plate. No. 1,372,518; Mar. 22; v. 284; p. 693.
- Koetschet, J., and M. Beudet, Lyon, France, assignors to Societe Chimique des Usines du Rhone, (Anciennement Gilliard P. Monnet et Cartier,) Paris, France. Manufacture of cellulose. No. 1,389,250; Aug. 30; v. 289; p. 887.
- Koetschet, Joseph, Lyon, France, assignor to Societe Chimique des Usines du Rhone, Anciennement Gilliard, P. Monnet, et Cartier, Paris, France. Process and apparatus for carrying out chemical reactions by catalysis. No. 1,400,959; Dec. 20.
- Koff, Samuel, New York, N. Y. Box. No. 1,401,794; Dec. 27.
- Koffend, Joseph, Sr., Appleton, Wis. Safety-check. No. 1,388,049; Aug. 16; v. 289; p. 537.
- Kohanski, August J., Chicago, Ill. Automobile-wheel rim. No. 1,390,141; Sept. 6; v. 290; p. 117.
- Kohl, Adolph. (See Wolfeld, I., and Kohl.)
- Kohl, Edmund E., Sheridan, Wyo. Animal-trap. No. 1,376,772; May 3; v. 286; p. 74.
- Kohl, George E. (See Lindstrom, Arthur O., assignor.)
- Kohl, Mike, North Milwaukee, and W. Renner, Milwaukee, Wis.; said Renner assignor to said Kohl. Demountable automobile-rim. No. 1,374,585; Apr. 12; v. 285; p. 275.
- Kohl, William, Wausau, Wis. Ice-box dripping-pan signal. No. 1,370,124; Mar. 1; v. 284; p. 69.
- Kohler, Charles W., H. A. Hoffman, Akron, and W. B. Freeman, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for separating rubber and fiber. No. 1,401,795; Dec. 27.
- Kohler, Conrad, Zurich, Switzerland. Water-cooling apparatus. No. 1,371,628; Mar. 15; v. 284; p. 467.
- Kohler, Conrad, Zurich, Switzerland. Surface condensing plant for steam-locomotives. No. 1,388,954; Aug. 30; v. 289; p. 828.
- Kohler, Conrad, Zurich, Switzerland. Steam-turbine-driven locomotive. No. 1,396,220; Nov. 8.
- Kohler Die & Specialty Company. (See Hall, William H., assignor.)
- Kohler, Ernest, Denver, Colo., assignor to The United Mines and Manufacturing Company. Amusement device (circling-whip). No. 1,398,639; Nov. 29.
- Köhler, Johan C. B., Woudzicht, near Vrede, Orange Free State, South Africa. Harness. No. 1,392,015; Sept. 27; v. 290; p. 724.
- Kohlhepp, John W., assignor to Albright-Nell Company, Chicago, Ill. Method and machine for cleaning carcasses in groups. No. 1,367,055; Feb. 1; v. 283; p. 34.
- Kohlhepp, John W., assignor to Albright-Nell Company, Chicago, Ill. Rigid carcass-dehairing drum. No. 1,367,056; Feb. 1; v. 283; p. 35.
- Kohlhepp, John W., assignor to Albright-Nell Company, Chicago, Ill. Carcass-dehairing wheel. No. 1,367,057; Feb. 1; v. 283; p. 35.
- Kohlins, William N., Newark, N. J. Paper-filler and making the same. No. 1,390,297; Sept. 13; v. 290; p. 240.
- Kohlruess, Jacob A., assignor of one-half to Mrs. M. Frazer, Gillette, Wyo. Harvesting-machine. No. 1,377,204; May 10; v. 286; p. 213.
- Kohn, Frederick, New York, N. Y. Collar-clasp. No. 1,373,619; Apr. 5; v. 285; p. 46.
- Kohn, John A., North Fond du Lac, Wis. Clamp. No. 1,376,284; Apr. 26; v. 285; p. 695.
- Kohn, Leo M. (See MacFarland, Allison M., assignor.)
- Kohn, Mathias A., Milwaukee, Wis. Garbage-incinerator. No. 1,368,809; Feb. 15; v. 283; p. 481.
- Kohn, Sigmund F., New York, N. Y. Toy bed. No. 1,383,727; July 5; v. 288; p. 98.
- Kohn, Sigmund F., New York, N. Y. Toy. No. 1,389,589; Sept. 6; v. 290; p. 6.
- Kohner, Alfred, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making horny bodies. No. 1,395,834; Nov. 1.
- Kohnle, Frederick, assignor to The Monarch Tag Company, Dayton, Ohio. Price-tag. No. 1,383,641; July 5; v. 288; p. 79.
- Kohnstamm, H., & Co. (See Phair, Robert A., assignor.)
- Kohorst, Edward H., assignor to The Joyce Cridland Company, Dayton, Ohio. Lifting-jack. No. 1,364,117; Jan. 4; v. 282; p. 14.
- Kohr, Granville I., York, Pa. Pick-up and separating machine. No. 1,385,874; July 26; v. 288; p. 746.
- Koizner, Paul, Mount Clemens, Mich. Vegetable-grater. No. 1,376,704; May 3; v. 286; p. 61.
- Koken Barbers' Supply Company. (See Koken, W. F., and Anderson, assignors.)
- Koken, Walter F., St. Louis, Mo. Barber's chair. No. 1,364,882; Jan. 11; v. 282; p. 205.
- Koken, Walter F., and G. G. Anderson, assignors to Koken Barbers' Supply Company, St. Louis, Mo. Power-operated hair-clipper. No. 1,379,450; May 24; v. 286; p. 767.
- Kohrik, Wencel F., Omena, Mich. Animal-weaning device. No. 1,400,750; Dec. 20.
- Kolb, Felix R., Blue Springs, Miss. Supplemental handle for cooking utensils. No. 1,365,703; Jan. 18; v. 282; p. 403.
- Kolbe, John L., Wauwatosa, Wis. Tag-holder. No. 1,388,726; Aug. 23; v. 289; p. 728.
- Kolbe, Werner, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Printing device for registering cash and the like. No. 1,398,435; Nov. 29.
- Kolby, Nicolaus, Chicago, Ill. Phonograph-record holder. No. 1,371,629; Mar. 15; v. 284; p. 467.
- Kolchinsky, Ushir, Philadelphia, Pa. Convertible cane and stool. No. 1,381,845; June 14; v. 287; p. 340.
- Kolchinsky, Ushir, Philadelphia, Pa. Steam-cooker. No. 1,393,546; Oct. 11.
- Kolff, Petrus van S., Philadelphia, Pa. Means for detecting changes of resistance in electric currents. No. 1,397,641; Nov. 22.
- Kolkebeck, John F., New York, N. Y. Arch-support. No. 1,387,411; Aug. 9; v. 289; p. 360.
- Kollasch, Edward G., Browning, Mo. Vehicle-wheel. No. 1,395,189; Oct. 25.
- Koller, William, White Plains, N. Y. Embroidery-frame. No. 1,400,293; Dec. 13.
- Kolling, Charles H., assignor of one-fourth to O. A. Weisenborn and one-fourth to Reinhold Prietz, Jersey City, N. J. Safety device for phonographs. No. 1,400,079; Dec. 13.
- Kolmer, John A. (See Schamberg, J. F., Raiziss, and Kolmer.)
- Kolomyjec, Joseph, Detroit, Mich. Card-game accessory. No. 1,366,264; Jan. 18; v. 282; p. 513.
- Kolster, Frederick A., Washington, D. C. Apparatus for transmitting radiant energy. No. 1,394,560; Oct. 25.
- Kolts, William J., Kingston, N. Y. Stovepipe-collar. No. 1,372,355; Mar. 22; v. 284; p. 663.
- Kolva, William T., Vineland, N. J. Gas-deflector. No. 1,381,092; June 7; v. 287; p. 148.
- Komarek, Gustav, Chicago, Ill., assignor to St. Louis Briquette Machine Company, St. Louis, Mo. Chain for briquet-machines. No. 1,368,942; Feb. 15; v. 283; p. 507.
- Komarek, Gustav, Chicago, Ill., assignor to St. Louis Briquette Machine Company, St. Louis, Mo. Fluxer-stirring arm. No. 1,370,393; Mar. 8; v. 284; p. 261.
- Komfyte Spring and Bed Corporation. (See Tamarin, Abraham and F., and Hender, assignors.)
- Komlosy, George, Yonkers, N. Y. Direction-indicator. No. 1,380,152; May 31; v. 286; p. 974.
- Komorous, Joseph, assignor to Parisian Novelty Company, Chicago, Ill. Watch-fob. No. 1,370,125; Mar. 1; v. 284; p. 70.
- Koncur, Josef, Elizabethport, N. J. Direction-indicator. No. 1,370,652; Mar. 8; v. 284; p. 216.
- Kondolf, Mathias R., Rochester, N. Y., assignor to J. Jacobs, Merion, Pa. Packing bottles. No. 1,378,356; May 17; v. 286; p. 486.
- Konefes, Joseph H., Chicago, Ill. Bottle-crowning machine. No. 1,379,106; May 24; v. 286; p. 702.
- Konig, William F., assignor of one-half to J. C. McCann, San Francisco, Calif. Rat-guard. No. 1,401,540; Dec. 27.
- Konopaska, Herman, Paris, Ontario, Canada. Bushing-re-mover. No. 1,391,837; Sept. 27; v. 290; p. 687.



*Alphabetical list of patentees—Continued.*

- Konopski, Pawlo, Toronto, Ontario, Canada. Trolley-harp. No. 1,370,126; Mar. 1; v. 284; p. 70.
- Konrad, Otto, Oshkosh, Wis. Foldable bed. No. 1,401,796; Dec. 27.
- Konsalik, Arthur R., Philadelphia, Pa. Relieving attachment for clogged water-conductors, drain spouts, &c. No. 1,384,547; July 5; v. 288; p. 60.
- Kontezky, Robert, Rochester, N. Y. Work-support for shoe-nailing machines. No. 1,398,557; Nov. 29.
- Konz, Joseph, Olympia, Wash. Combination-calipers. No. 1,383,217; June 28; v. 287; p. 714.
- Koon, William F. (See Nordberg, C. R., and Koon.)
- Koontz, Everett E., *et al.* (See Dungan, John E., assignor.)
- Koontz, John A., Jr. (See Euler, W. G. B., Koontz, and Benham.)
- Koontz, Victor R., Waynesboro, Pa. Lifting-jack. No. 1,368,733; Feb. 15; v. 283; p. 467.
- Koontz, Victor R., assignor to The Victor Tool Company, Waynesboro, Pa. Collapsible tap. No. 1,391,639; Sept. 20; v. 290; p. 573.
- Koontz, Victor R., assignor to The Victor Tool Company, Waynesboro, Pa. Die-head. No. 1,394,845; Oct. 25.
- Kooper Dampier Co. (See Cooper, Thomas S., assignor.)
- Kopchuk, John K., Melville, Saskatchewan, Canada. Grain-door. No. 1,400,080; Dec. 13.
- Kopecky, John, Mason City, Iowa. Change-handling device. No. 1,372,356; Mar. 22; v. 284; p. 663.
- Kopernik, Wincenty, Chicago, Ill. Pot-lifter. No. 1,370,127; Mar. 1; v. 284; p. 70.
- Kopf, John C., Bellevue borough, Pa. Die-casting machine. No. 1,394,561; Oct. 25.
- Kopf, John C., Bellevue, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Jack. No. 1,373,894; Apr. 5; v. 285; p. 100.
- Kopf, John C., Bellevue, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Automatically-controlled self-lowering jack. No. 1,392,066; Sept. 27; v. 290; p. 733.
- Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Self-lowering jack. No. 1,397,868; Nov. 22.
- Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Self-lowering jack. No. 1,397,869; Nov. 22.
- Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Lifting-jack. No. 1,397,870; Nov. 22.
- Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Jack. No. 1,397,871; Nov. 22.
- Kopfhamer, Joseph. (See Sourek, W., and Kopfhamer.)
- Koplin, Charles C., Bartlesville, Okla. Stopcock and check-valve. No. 1,367,911; Feb. 8; v. 283; p. 259.
- Koplin, Charles C., Bartlesville, Okla. Globe check-valve. No. 1,369,444; Feb. 22; v. 283; p. 643.
- Koplin, Charles C., Bartlesville, Okla. Suspended pumping power. No. 1,370,594; Mar. 8; v. 284; p. 204.
- Koplin, Frank J., assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,364,385; Jan. 4; v. 282; p. 65.
- Kopp, Hugo. (See Baer, R., and Kopp.)
- Kopp, John P. (See Kopp, Paul A. and J. P.)
- Kopp, Paul A., and J. P., Tulsa, Okla. Clasp. No. 1,385,009; July 19; v. 288; p. 494.
- Kopp, Walter R., assignor to Winchester Repeating Arms Co., New Haven, Conn. Fishing-reel. No. 1,372,301; Mar. 22; v. 284; p. 653.
- Koppe, Alexander T., Los Angeles, Calif., assignor to Offset Directoplate Company, Chicago, Ill. Vacuum-pressure frame. No. 1,396,962; Nov. 15.
- Koppel, Julius G., Akron, Ohio. Clutch-controlling mechanism. No. 1,376,341; Apr. 26; v. 285; p. 705.
- Koppel, Julius G., Akron, Ohio. Clutch-controlling mechanism. No. 1,378,685; May 17; v. 285; p. 550.
- Koppelman, Morris, Brooklyn, N. Y. Egg-packing. No. 1,378,469; May 17; v. 286; p. 508.
- Koppers Company, The. (See Becker, Joseph, assignor.)
- Koppers Company, The. (See Darrin, Marc, assignor.)
- Koppers Company, The. (See Jacobson, David L., assignor.)
- Koppers Company, The. (See Ramsburg, Charles J., assignor.)
- Koppers Company, The. (See Sperr, Frederick W., Jr., assignor.)
- Koppers Company, The. (See Van Ackeren, Joseph, assignor.)
- Koppers Development Corporation, The. (See Koppers, Heinrich, assignor.)
- Koppers Products Company. (See Darrin, Marc, assignor.)
- Koppers, Heinrich, Essen-Ruhr, Germany, assignor to The Koppers Development Corporation. Coking retort-oven. No. 1,369,673; Feb. 22; v. 283; p. 689.
- Kopperud, Anders H., Oakland, Calif. Grading apparatus. No. 1,379,633; May 31; v. 286; p. 877.
- Kopple, Morris D. (See Doherty, John, assignor.)
- Kopplin, Otto E., Marlon, Tex. Stub-axle adjustment device. No. 1,396,128; Nov. 8.
- Kops Bros. (See Kops, Waldemar, assignor.)
- Kops Bros. (See Kops, W., and Goldsmith, assignors.)
- Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,365,504; Jan. 11; v. 282; p. 325.
- Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,366,190; Jan. 18; v. 282; p. 498.
- Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,366,811; Jan. 25; v. 282; p. 666.
- Kops, Daniel, New York, N. Y. Apparel-corset. (Reissue.) No. 15,134; June 28; v. 287; p. 725.
- Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,399,486; Dec. 6.
- Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,399,487; Dec. 6.
- Kops, Daniel, New York, N. Y. Apparel-corset. No. 1,400,294; Dec. 13.
- Kops, Waldemar. (See Monroe, R., and Klauber, assignors.)
- Kops, Waldemar. (See Monroe, Randolph, assignor.)
- Kops, Waldemar, New York, N. Y. Gas-mask. No. 1,395,835; Nov. 1.
- Kops, Waldemar, New York, N. Y. Gas-mask. No. 1,395,836; Nov. 1.
- Kops, Waldemar, New York, N. Y. Gas-mask. No. 1,395,837; Nov. 1.
- Kops, Waldemar, New York, N. Y. Brassière. No. 1,400,295; Dec. 13.
- Kops, Waldemar, assignor to Kops Bros., New York, N. Y. Brassière. No. 1,400,883; Dec. 20.
- Kops, Waldemar, and L. Goldsmith, assignors to Kops Bros., New York, N. Y. Brassière. No. 1,400,884; Dec. 20.
- Korach, Louis L., Chicago, Ill. Lock-nut. No. 1,380,395; June 7; v. 287; p. 13.
- Korach, Louis L., Chicago, Ill. Window-cleaning mechanism. No. 1,382,000; June 21; v. 287; p. 429.
- Korb, Fred J., Toledo, Ohio. Door-hinge. No. 1,382,654; June 28; v. 287; p. 607.
- Kordyl, Jakob, Carnegie, Pa. Rail-fastener. No. 1,372,519; Mar. 22; v. 284; p. 694.
- Koretzky, Harry M., New York, N. Y. Electrode-terminal. No. 1,371,907; Mar. 15; v. 284; p. 520.
- Koretzky, Harry M., New York, N. Y. Portable electric light. No. 1,392,420; Oct. 4.
- Koretzky, Harry M., New York, N. Y. Dry battery-cell. No. 1,395,281; Nov. 1.
- Koretzky, Harry M., New York, N. Y. Dry battery-cell. No. 1,395,282; Nov. 1.
- Koretzky, Harry M., Brooklyn, and I. Fertman, New York, N. Y. Portable hand-lamp. No. 1,366,084; Jan. 18; v. 282; p. 478.
- Koretzky, Harry M., and B. H. Teitelbaum, Brooklyn; said Teitelbaum assignor to said Harry M. Koretzky and I. Koretzky, New York, N. Y. Dry-cell battery. No. 1,366,191; Jan. 18; v. 282; p. 498.
- Koretzky, Harry M., assignor to J. Satlow, Brooklyn, N. Y. Switch for flash-lights. No. 1,368,810; Feb. 15; v. 283; p. 482.
- Koretzky, Israel. (See Koretzky, H. M. and Teitelbaum, assignors.)
- Korkosz, Stanislaw J., Schenectady, N. Y. Vise. No. 1,394,912; Oct. 25.
- Korn, George J., Kirksville, Mo. Folding table. No. 1,378,178; May 17; v. 286; p. 453.
- Kornas, Joseph, Linden, N. J., assignor to Feldman Machine Works, Inc. Sewing-machine drive. No. 1,386,632; Aug. 9; v. 289; p. 203.
- Korner, Vane B., La Grange, Ill. Power take-off mechanism. No. 1,401,157; Dec. 27.
- Korner, Vane B., La Grange, and G. R. Trevillian, Cicero, Ill., said Trevillian assignor to said Korner. Power-take-off mechanism. No. 1,368,943; Feb. 15; v. 283; p. 507.
- Koromogawa, Hideo, Okubo, Toyotama-gun, Japan. Stone-planing machine. No. 1,371,311; Mar. 15; v. 284; p. 404.
- Kors, Charles H., Philadelphia, Pa. Container. No. 1,377,695; May 10; v. 286; p. 306.
- Kors, Frank F. (See Kors, Harry D. and F. F.)
- Kors, Harry D. and F. F., Independence, Kans. Pipe-section. No. 1,366,694; Jan. 25; v. 282; p. 642.
- Korthals-Altes, Willem C., Schenectady, N. Y., assignor to General Electric Company. Automatic regulating system. No. 1,365,505; Jan. 11; v. 282; p. 325.
- Korthals-Altes, Willem C., Schenectady, N. Y., assignor to General Electric Company. Converter. No. 1,371,908; Mar. 15; v. 284; p. 520.
- Korthals-Altes, Willem C., Schenectady, N. Y., assignor to General Electric Company. Brush-shifting device for alternating-current motors. No. 1,376,020; Apr. 26; v. 285; p. 644.
- Korthals-Altes, Willem C., Schenectady, N. Y., assignor to General Electric Company. Converter. No. 1,380,978; June 7; v. 287; p. 126.
- Korthals-Altes, Willem C., Schenectady, N. Y., assignor to General Electric Company. Repulsion-motor. No. 1,396,582; Nov. 8.
- Korvin-Kroukovsky, Boris, V. (See Drew, W. F., and Korvin-Kroukovsky.)
- Kosakoff, William, *et al.* (See Phillips, Joseph, assignor.)
- Kosecki, Paul A. (See Johnson, P. H., and Kosecki.)
- Koski, Andrew W., and T. Casey, Fitchburg, Mass. Pin-fastener. No. 1,375,033; Apr. 19; v. 285; p. 423.
- Kost, Stephen A., and A. L. Daniel, Buffalo, N. Y. Spring and shock-absorber. No. 1,380,722; June 7; v. 287; p. 76.
- Kostecki, Michael, Hartford, Conn. Spring-wheel. No. 1,391,740; Sept. 27; v. 290; p. 667.



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- Kostenbauder, Harry D., Aristes, Pa. Mineral or coal separating jig. No. 1,395,716; Nov. 1.
- Koster, George M. A., Eccles, near Manchester, England. Scooter. No. 1,394,430; Oct. 18.
- Koster, Philipp, Frankfort-on-the-Main, Germany. Automatically unslagging shaft construction for water-gas generators. No. 1,400,885; Dec. 20.
- Koster, William J., assignor to L. Florence, Peterborough, Ontario, Canada. Accessory for Ford automobiles. No. 1,394,846; Oct. 25.
- Kostko, Jaroslav K., St. Louis, Mo. Method and means for improving the commutation of dynamo-electric machines. No. 1,393,141; Oct. 11.
- Kosugi, Tatsuzo, Seido-Mura, Kobe, Japan. Alloy. No. 1,369,818; Mar. 1; v. 284; p. 13.
- Kotchmann, Elgin O., *et al.* (See Williams, Harry S., assignor.)
- Koterske, John, Selden, Kans. Dust-conveying attachment for threshing-machines. No. 1,401,710; Dec. 27.
- Kotrba, George C., assignor of one-half to T. E. Weaver, Chicago, Ill. Wrench. No. 1,378,035; May 17; v. 286; p. 426.
- Kottman, Kurt, Berne, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Combination of metals with albumens. No. 1,371,380; Mar. 15; v. 284; p. 419.
- Kottman, Kurt, Berne, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Combination of metals with albumens. No. 1,371,381; Mar. 15; v. 284; p. 419.
- Kottmann, Carl. (See Ruhlmann, T., and Kottmann.)
- Kottusch, Emil, Detroit, Mich. Piston. No. 1,376,705; May 3; v. 286; p. 61.
- Kotun, Michael, New Geneva, Pa. Portable table and chair. No. 1,380,153; May 31; v. 286; p. 974.
- Kotynek, John L., Omaha, Nebr. Grinding implement. No. 1,386,181; Aug. 2; v. 289; p. 44.
- Kotzebue, Meinhard H., assignor to E. R. Kemp, Tulsa, Okla. Vaporizing burner for hydrocarbon fuels. No. 1,393,547; Oct. 11.
- Koudelka, John G., Antigo, Wis. Chimney-cleaner. No. 1,395,548; Oct. 11.
- Kountz, J. H., *et al.* (See Kelley, Benjamin F., assignor.)
- Kouwenhoven, William B., Baltimore, Md., assignor to Winchester Repeating Arms Co., New Haven, Conn. Electrical battery and bulb-tester. No. 1,380,809; June 7; v. 287; p. 93.
- Kovacic, Blasius A., Detroit, Mich. Burglar-alarm. No. 1,380,808; June 7; v. 287; p. 93.
- Kovacs, Louis, Chicago, Ill. Sliding switch. No. 1,375,300; Apr. 19; v. 285; p. 475.
- Kovar, Joe, Coupland, Tex. Incubator. No. 1,392,177; Sept. 27; v. 290; p. 755.
- Kovar, Joseph J., Owatonna, Minn. Harrow-cart. No. 1,392,946; Oct. 11.
- Kowal, Alexander. (See Snyder, A. H., and Kowal.)
- Kowalski, Juzef, Detroit, Mich. Toy acrobat. No. 1,382,517; June 21; v. 287; p. 527.
- Kowaluk, Wasyli. (See Boosh, J., and Kowaluk.)
- Kowitz, Louis, Lawrence, Mass. Safety-razor. No. 1,367,665; Feb. 8; v. 283; p. 212.
- Koyomjian, Neuffer, New York, N. Y. Hat-extender. No. 1,391,123; Sept. 20; v. 290; p. 469.
- Koza, Albert H. (See Tyler, W. C., and Koza.)
- Koziol, Joseph M., Pender, Nebr. Husking-hook. No. 1,388,580; Aug. 23; v. 289; p. 699.
- Koziol, William, Easthampton, Mass. Safety-lock. No. 1,384,723; July 12; v. 288; p. 353.
- Kozlowsky, T., and W. Rogosky, Toledo, Ohio. Combined brush and comb. No. 1,388,955; Aug. 30; v. 289; p. 828.
- Kozlowsky, T., and W. Rogosky, Toledo, Ohio. Telescopic picture-frame. No. 1,388,956; Aug. 30; v. 289; p. 828.
- Kozlosky, Theodore, Toledo, Ohio. Combination device. No. 1,398,727; Nov. 29.
- Kraber, Arant J., Pittsborough, Pa. Shock-absorber. No. 1,396,851; Nov. 15.
- Kraber, George L., Portland, Oreg., assignor, by mesne assignments, to The Turbine Air Tool Company, Cleveland, Ohio. Portable tool. No. 1,366,389; Jan. 25; v. 282; p. 581.
- Kraber, George L., Portland, Oreg., assignor, by mesne assignments, to The Turbine Air Tool Company, Cleveland, Ohio. Rotor for cutter-heads. No. 1,396,762; Nov. 15.
- Kracht, Gustav, Solingen, Germany. Tin-opener. No. 1,399,061; Dec. 6.
- Kracke, Louis S., Chicago, Ill. Window-cleaner. No. 1,378,243; May 17; v. 286; p. 465.
- Kraemer, Albert A. (See Dane, C. A., and Kraemer.)
- Kraemer, Milton, *et al.*, trustees. (See Geoghegan, Edward A., assignor.)
- Kraft, Carl, New York, N. Y. Ash-receiving device. No. 1,381,880; June 14; v. 287; p. 348.
- Kraft, Edward L., assignor of one-half to A. R. Cosgrove, York, Pa. Rear-axle structure for motor-vehicles. No. 1,386,510; Aug. 2; v. 289; p. 106.
- Kraft, Edward L., assignor of one-half to A. R. Cosgrove, York, Pa. Demountable drive mechanism for automobiles. No. 1,400,170; Dec. 13.
- Kraft, Eugene, Spokane, Wash. Self-cleaning spark-plug. No. 1,369,177; Feb. 22; v. 283; p. 592.
- Kraft, Frederick G., assignor to E. I. du Pont de Nemours, Wilmington, Del. Flow-controller for cellulosic solutions. No. 1,389,834; Sept. 6; v. 290; p. 55.
- Kraft, Harry, Nashville, Tenn. Heater. No. 1,371,693; Mar. 15; v. 284; p. 480.
- Kraft, Henry P. (See Schweinert, M. C., and Kraft.)
- Kraft, Henry P., Ridgewood, N. J. Inflating-coupling. No. 1,364,440; Jan. 4; v. 282; p. 77.
- Kraft, Henry P., Ridgewood, N. J. Inflating-coupling. No. 1,364,441; Jan. 4; v. 282; p. 77.
- Kraft, Henry P., Ridgewood, N. J. Tire-gage. No. 1,366,469; Jan. 25; v. 282; p. 597.
- Kraft, Henry P., Ridgewood, N. J. Sheet-metal nut. No. 1,367,151; Feb. 1; v. 283; p. 54.
- Kraft, Henry P., Ridgewood, N. J., assignor to A. Schraeder's Son Incorporated, Brooklyn, N. Y. Inflating-coupling. No. 1,370,128; Mar. 1; v. 284; p. 70.
- Kraft, Henry P., Ridgewood, N. J., assignor to A. Schraeder's Son, Incorporated, Brooklyn, N. Y. Gage and pump connection. No. 1,374,578; Apr. 12; v. 285; p. 274.
- Kraft, Henry P., Ridgewood, N. J. Pump-coupling. No. 1,383,126; June 28; v. 287; p. 697.
- Kraft, Henry P., Ridgewood, N. J. Double pump connection. No. 1,383,127; June 28; v. 287; p. 697.
- Kraft, Henry P., Ridgewood, N. J. Pump-coupling or the like. No. 1,384,196; July 12; v. 288; p. 243.
- Kraft, Henry P., Ridgewood, N. J. Pump-coupling or the like. No. 1,384,197; July 12; v. 288; p. 244.
- Kraft, Henry P., Ridgewood, N. J. Extracting-tool. No. 1,389,667; Sept. 6; v. 290; p. 22.
- Kraft, Henry P., Ridgewood, N. J. Spreader for pneumatic tires. No. 1,391,482; Sept. 20; v. 290; p. 542.
- Kraft, Henry P., Ridgewood, N. J. Spreader for pneumatic tires. No. 1,391,483; Sept. 20; v. 290; p. 542.
- Kraft, Henry P., Ridgewood, N. J. Dust-cap for tire-valves and the like. No. 1,401,541; Dec. 27.
- Kraft, Henry P., Brooklyn, N. Y., and M. C. Schweinert, West Hoboken, N. J. Valve. No. 1,377,590; May 10; v. 286; p. 287.
- Kraft, James L., Chicago, Ill. Preparing cheese. No. 1,400,171; Dec. 13.
- Kraive, William, Fall River, Mass. Muffler. No. 1,396,583; Nov. 8.
- Krag, Franz K. (See Nelson, John V., assignor.)
- Krag, Erik L., Chicago, Ill. Loose-leaf binder. No. 1,391,780; Sept. 27; v. 290; p. 674.
- Krahl, Emil C., Cleveland, Ohio. Ladder attachment. No. 1,386,511; Aug. 2; v. 289; p. 107.
- Krahn, Alvin W. (See Fischeidick, O. F., and Krahn.)
- Krahn, Otto F., Loyal, Wis. Bicycle-rest. No. 1,369,116; Feb. 22; v. 283; p. 580.
- Krahn, Otto F., Loyal, Wis. Combined table and ironing-board. No. 1,379,451; May 24; v. 286; p. 767.
- Kraink, Frederick. (See Kraink, John and F.)
- Kraink, John and F., Paterson, N. J. Spindle for doubling and spinning. No. 1,379,634; May 31; v. 286; p. 877.
- Kraker, Alphons H., *et al.* (See Schuitenover, Isidore J., assignor.)
- Krakau, Clarence H., Chicago, Ill. Uncoupling mechanism. No. 1,390,298; Sept. 13; v. 290; p. 240.
- Kraklau, William B. and C. Brettschneider, St. Paul, Minn. Air-moistening device. No. 1,400,444; Dec. 13.
- Krailcek, Charles, Cleveland, Ohio, assignor, by mesne assignments, to Safety Oiling System, Incorporated, Philadelphia, Pa. Oiling device. No. 1,401,711; Dec. 27.
- Kraling, Fred B., Lisbon, N. D. Device for grinding automobile-valves. No. 1,396,763; Nov. 15.
- Kraly, Joseph J., Cleveland, Ohio. Airless tube for vehicle-tires. No. 1,396,852; Nov. 15.
- Kramer, Andrew A., Kansas City, Mo. Wagon-tank construction. No. 1,365,110; Jan. 11; v. 282; p. 249.
- Kramer, Andrew A., Kansas City, Mo. Tank construction. No. 1,373,434; Apr. 5; v. 285; p. 10.
- Kramer, Andrew A., Kansas City, Mo. Can-rack. No. 1,373,435; Apr. 5; v. 285; p. 11.
- Kramer, Andrew A., Kansas City, Mo. Vehicle-tank construction. No. 1,390,045; Sept. 6; v. 290; p. 98.
- Kramer, Andrew A., Kansas City, Mo. Vehicle-tank structure. No. 1,394,742; Oct. 25.
- Kramer, Charles M. (See Johnston, A., and Kramer.)
- Kramer, Edward H. (See Du Brie, Stanley R., assignor.)
- Kramer, Edward, Mishawaka, Ind. Hand-covering. No. 1,387,728; Aug. 16; v. 289; p. 475.
- Kramer, Eric B., Brooklyn, N. Y. Multicylinder explosive-engine. No. 1,373,510; Apr. 5; v. 285; p. 26.
- Kramer, Eric B., Brooklyn, N. Y. Liquid-fuel burner. No. 1,373,511; Apr. 5; v. 285; p. 26.
- Kramer, Harry, New York, N. Y. Wheel-lock for automobiles. No. 1,395,430; Nov. 1.
- Kramer, Le Roy, and A. Boome, Chicago, Ill. Lathe-tool holder. No. 1,394,628; Oct. 25.
- Kramer, Lee R., Kewanee, Ill. Bottom-protector for wash-boilers and culinary vessels. No. 1,375,158; Apr. 19; v. 285; p. 448.
- Kramer, Rudolph, Sheyenne, N. D. Emergency-tire for automobile-wheels. No. 1,364,200; Jan. 4; v. 282; p. 30.
- Kramer, William J., St. Louis, Mo. Inclosed or cartridge fuse. No. 1,388,269; Aug. 23; v. 289; p. 638.
- Kramlich, John M., Fox Chase, Pa. Toy vehicle. No. 1,392,834; Oct. 4.
- Kramplitz, Robert A. W., Valdez, Alaska. Rock-drilling machine. No. 1,386,633; Aug. 9; v. 289; p. 203.



- Kranz, Max E., Bridgeport, Conn. Jig for drilling valve-cages. No. 1,401,262; Dec. 27.
- Krantz, Carl A. and G. E., Chicago, Ill. Water-operated ventilator for toilets. No. 1,381,710; June 14; v. 287; p. 315.
- Krantz, Gustavus E. (See Krantz, Carl A. and G. E.)
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety panel-box. No. 1,367,912; Feb. 8; v. 283; p. 260.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch mechanism. No. 1,379,767; May 31; v. 286; p. 901.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch mechanism. (Reissue.) No. 15,152; July 12; v. 288; p. 357.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety starting-switch. No. 1,399,488; Dec. 6.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety cut-out. No. 1,399,489; Dec. 6.
- Krantz, Hubert, assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Electric switch mechanism. No. 1,399,490; Dec. 6.
- Krantz, Hubert, assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch-blade and process. No. 1,399,491; Dec. 6.
- Krantz, Hubert, assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Double switch-blade. No. 1,399,492; Dec. 6.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch mechanism. No. 1,399,493; Dec. 6.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety-switch-operating device. No. 1,399,494; Dec. 6.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch mechanism. No. 1,399,495; Dec. 6.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Non-voltage release-switch. No. 1,399,496; Dec. 6.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Supporting-bracket for switch mechanism. No. 1,399,497; Dec. 6.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Safety-switch mechanism. No. 1,399,498; Dec. 6.
- Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch mechanism. No. 1,399,499; Dec. 6.
- Krantz Manufacturing Company. (See Krantz, Hubert F., assignor.)
- Kranz, Frederick C., East Aurora, N. Y. Music-satchel. No. 1,373,136; Mar. 29; v. 284; p. 857.
- Krastin August, Cleveland, Ohio, assignor of two and one-half one-hundredths to G. Schenker and ninety-five one-hundredths to W. J. McSorley, administrator of the estate of Ralph V. Brandt, William J. McSorley, and E. K. Young, Cleveland, Ohio, and D. E. Hershey, Lorain, Ohio. Theft-alarm for automobiles. No. 1,368,734; Feb. 15; v. 283; p. 467.
- Kratochwill, Rudolph A., Bristol, Va. Brick-coal. No. 1,376,706; May 3; v. 286; p. 61.
- Kratt, Charles, Nottingham, England, assignor to Filbar Electric Heater, Limited. Electric water-heater. No. 1,394,847; Oct. 25.
- Kratt, William, New Brunswick, N. J. Pitch-pipe. No. 1,366,735; Jan. 25; v. 282; p. 650.
- Kratz, Franz, and G. Honold, Stuttgart, Germany, assignors, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Electric starting system for internal-combustion engines. No. 1,368,635; Feb. 15; v. 283; p. 448.
- Kratz, Franz, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Starting apparatus for internal-combustion engines. No. 1,383,311; July 5; v. 288; p. 11.
- Kratz, Franz, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Electrical condenser and making it. No. 1,385,379; July 26; v. 288; p. 645.
- Krauer, Joseph, Heaton Chapel, near Manchester, England. Apparatus for drying hair. No. 1,372,237; Mar. 22; v. 284; p. 640.
- Krauer, Joseph, Heaton Chapel, England. Apparatus for the treatment of rheumatism, gout, sciatica, neuralgia, and similar ailments. No. 1,375,050; Apr. 19; v. 285; p. 427.
- Kraus, Adolf. (See Schäfer, M., and Kraus.)
- Kraus, Charles E., and T. C. Barrett, Louisville, Ky. Automobile-bumper. No. 1,365,593; Jan. 11; v. 282; p. 343.
- Kraus Engine Company. (See Kraus, Otto, assignor.)
- Kraut, Hans B., Chicago, Ill. Combination coping and notching machine. No. 1,389,878; Sept. 6; v. 290; p. 64.
- Kraut, Hans B., Chicago, Ill. Frame for metal-cutting machines. No. 1,389,879; Sept. 6; v. 290; p. 64.
- Kraut, Hans B., Chicago, Ill. Combined punching, shearing, section-cutter, bar-cutter, and coping and notching machine. No. 1,389,880; Sept. 6; v. 290; p. 65.
- Kraut, Hans B., Chicago, Ill. Metal-section cutter. No. 1,389,881; Sept. 6; v. 290; p. 65.
- Kraus, Herman. (See David, Ernest, assignor.)
- Kraus, Jacob F., Pittsburgh, Pa. Oil-burner. No. 1,399,626; Dec. 6.
- Kraus, Otto, assignor to Kraus Engine Company, New York, N. Y. Power plant. No. 1,392,947; Oct. 11.
- Kraus, Otto, assignor to Kraus Engine Company, New York, N. Y. Flame-maintaining device. No. 1,392,948; Oct. 11.
- Krause, Frank F., Cashmere, Wash. Water-pump and aerator for cooling systems. No. 1,370,823; Mar. 8; v. 284; p. 249.
- Krause, Georg, Munich, Germany. Purification of gases. No. 1,377,205; May 10; v. 286; p. 213.
- Krause, George E., Canton, Ohio. Box. No. 1,369,819; Mar. 1; v. 284; p. 13.
- Krause, Hugo C., Chicago, Ill., assignor to The Singer Manufacturing Company, Binder. No. 1,370,595; Mar. 8; v. 284; p. 205.
- Krause, Norman R., assignor of one-fourth to W. F. Sawyer, Racine, Wis., and one-fourth to J. A. Walsh, Indianapolis, Ind. Spring-controller for vehicles. No. 1,370,992; May 31; v. 286; p. 944.
- Krause, Oscar, Copenhagen, Denmark. Apparatus for mixing granular substances. No. 1,369,248; Feb. 22; v. 283; p. 606.
- Krause, William A., Indianapolis, Ind. Aero spinning-top. No. 1,366,736; Jan. 25; v. 282; p. 650.
- Krause, William C., Milwaukee, Wis. Box-protector. No. 1,384,391; July 12; v. 288; p. 284.
- Krauss, Charles A., Philadelphia, Pa. Ball for receptacles. No. 1,368,508; Feb. 15; v. 283; p. 423.
- Krauthelm, Richard J., Newark, N. J. Sales-check holder. No. 1,382,198; June 21; v. 287; p. 466.
- Kray, Jacob, Elgin, Ill. Roller-bearing-sleeve puller. No. 1,395,502; Nov. 1.
- Krebs, George F., Wichita, Kans. Automobile signal device. No. 1,378,036; May 17; v. 286; p. 426.
- Krechmer, Harry H., and W. E. Cohen, Philadelphia, Pa. Snap-fastener. No. 1,391,640; Sept. 20; v. 290; p. 574.
- Kregelius, Louis M., Cleveland, Ohio. Waterproofing material and making the same. No. 1,382,985; June 28; v. 287; p. 671.
- Kreipel, Leo J., New York, N. Y. Station-indicator. No. 1,381,711; June 14; v. 287; p. 315.
- Kreiss, Albert L., Merriman, Nebr. Production of phosphate fertilizer containing potassium. No. 1,366,569; Jan. 25; v. 282; p. 618.
- Kretter, Richard H., Houston, Tex. Tool-joint. No. 1,372,238; Mar. 22; v. 284; p. 640.
- Kreitzer, August C., Humboldt, Kans. Liquid-fuel burner. No. 1,382,655; June 28; v. 287; p. 608.
- Krejčí, Milo W. (See Hulst, G. P., and Krejčí.)
- Kregel, Charles H., Twin Falls, Idaho. Peening-tool for harness-makers. No. 1,382,093; June 21; v. 287; p. 447.
- Krentler Arnold Hinge Last Company. (See Krentler, Walter A., assignor.)
- Krentler, Walter A., assignor to Krentler Arnold Hinge Last Company, Detroit, Mich. Last. No. 1,367,742; Feb. 8; v. 283; p. 228.
- Krenzer, George J., Port Washington, Wis. Radiator-draining attachment for automobiles. No. 1,393,549; Oct. 11.
- Kresge, Miles M., Elmira Heights, N. Y. Self-aligning reamer holder. No. 1,371,630; Mar. 15; v. 284; p. 467.
- Kresky, Jesse E., Petaluma, Calif. Brooder-stove. No. 1,395,431; Nov. 1.
- Kress, John H., Louisville, Ky. Cutter. No. 1,376,552; May 3; v. 286; p. 32.
- Kresse, Ernst O. R., Brooklyn, N. Y. Shoe-heel. No. 1,392,769; Oct. 4.
- Kretzer, Nicholas, Louisville, Ky. Coin-controlled lock. No. 1,384,766; July 19; v. 288; p. 443.
- Kreutzberg, Otto A., Lake Bluff, Ill. Pulverizing-machine. No. 1,368,636; Feb. 15; v. 283; p. 448.
- Kreutzer, Eberhardt. (See Buchberger, Karl, assignor.)
- Kreuzkamp August J., Chicago, Ill., assignor to Englander Spring Bed Company, Brooklyn, N. Y. Bed or couch bed. No. 1,368,509; Feb. 15; v. 283; p. 423.
- Kreuzkamp, August J., Chicago, Ill., assignor to Englander Spring Bed Company, Brooklyn, N. Y. Combined knock-down sliding couch or bed. No. 1,368,510; Feb. 15; v. 283; p. 424.
- Kreuzkamp, August J., Chicago, Ill., assignor to Englander Spring Bed Company, New York, N. Y. Spring structure. No. 1,372,702; Mar. 29; v. 284; p. 770.
- Krichbaum, William F., Irvington, N. J. Automatic shut-off valve. No. 1,395,586; Nov. 1.
- Krick, George W., Los Angeles, and H. Miller, South Pasadena, assignors of one-third to George Glaudel, Los Angeles, Calif. Automobile-curtain window. No. 1,368,166; Feb. 8; v. 283; p. 308.
- Krickel, Louis H., et al. (See Howell, Henry M., assignor.)
- Kriebel, Frederick L. (See Kriebel, Hosea K., assignor.)
- Kriebel, Hosea K., Philadelphia, Pa., assignor of one-fourth to F. L. Kriebel, Chicago, Ill. Valve. No. 1,400,172; Dec. 13.
- Krieg, Alfred, Minneapolis, Minn., assignor to Emerson-Brantingham Company, Rockford, Ill. Plow-lift. No. 1,367,607; Feb. 8; v. 283; p. 201.
- Krieg, John L. (See Handley, J. H., Jr., and Krieg.)



## Alphabetical list of patentees—Continued.

- Krieger, Arthur H., Los Angeles, Calif., and W. L. Jordan, New York, N. Y. Heat-insulating formed body and making same. No. 1,393,225; Oct. 11.
- Krieger, George F., Grand Rapids, Wis. Compressor. No. 1,365,506; Jan. 11; v. 282; p. 325.
- Krieger, George F., Grand Rapids, Wis. Tool-holder. No. 1,387,782; Aug. 16; v. 289; p. 486.
- Krieger, Peter, Sr., Paterson, N. J. Vehicle. No. 1,390,567; Sept. 13; v. 290; p. 294.
- Kriesel, Gustave F., assignor, by mesne assignments, to E. V. Safstrom, Minneapolis, Minn. Boring and milling machine. No. 1,369,749; Feb. 22; v. 283; p. 704.
- Kring, Edward A., Pasadena, Calif. Supporting structure for packing-boxes. No. 1,394,028; Oct. 18.
- Kring, Olof O. (See Stålhane, O., and Kring.)
- Krippner, John, assignor to American Coke & Chemical Company, Chicago, Ill. Coke-oven-door machine. No. 1,397,736; Nov. 22.
- Krippendorff, Paul F. W. C., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,372,885; Mar. 29; v. 284; p. 807.
- Kriska, Samuel, Lore City, Ohio. Rail-clamp and metallic tie. No. 1,383,406; July 5; v. 288; p. 31.
- Kristen, Alfred, Frondenberg, Westphalia, Germany. Back-pedaling coaster-brake. No. 1,399,711; Dec. 6.
- Krisman-Frey Jewelry Mfg. Co. (See Kintzele, Felix P., assignor.)
- Kristofek, Frank J. (See Fischer, H. L. and Kristofek.)
- Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Adjustable pad-holding means. No. 1,376,945; May 3; v. 286; p. 108.
- Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Clock-case. No. 1,384,900; July 19; v. 288; p. 470.
- Krizan, Alois, Philadelphia, Pa. Ice-creeper. No. 1,375,254; Apr. 19; v. 285; p. 465.
- Krizevich, Kazimieras L., New Haven, Conn. Clothes-line-reel. No. 1,378,686; May 17; v. 286; p. 551.
- Krisa, Louis, New York, N. Y. Push-lock. No. 1,369,820; Mar. 1; v. 284; p. 13.
- Krocker, Adolf G., Waco, Tex. Saw-table gage. No. 1,374,159; Apr. 19; v. 285; p. 448.
- Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Folding camera. No. 1,376,946; May 3; v. 286; p. 108.
- Kroedel, Robert, assignor to Eastman Kodak Company, Rochester, N. Y. Folding camera. No. 1,380,810; June 7; v. 287; p. 93.
- Kroehle, Oscar, Lakewood, Ohio. Socket for incandescent electric lamps. No. 1,386,412; Aug. 2; v. 289; p. 88.
- Kroger, Fred H., Brooklyn, N. Y., assignor, by mesne assignments, to International Radio Telegram Company. Method and apparatus for wireless signaling. No. 1,365,787; Jan. 18; v. 282; p. 420.
- Krogmann, Frank J., Eureka, Calif. Dispensing can or receptacle. No. 1,376,103; Apr. 26; v. 285; p. 660.
- Kroh, Henry A., Detroit, Mich. Shackle. No. 1,378,798; May 17; v. 286; p. 572.
- Krohn, Albert. (See Hooker, George W., assignor.)
- Krogh, Carl A., et al., executors. (See Krogh, Ferdinand W.)
- Krogh, Ferdinand W., deceased, San Francisco, Calif.; C. A. Krogh and O. Poulsen, executors. Rod-coupling. No. 1,377,418; May 10; v. 286; p. 255.
- Krohn, John, Newark, N. J. Mechanical movement. No. 1,384,839; July 19; v. 288; p. 468.
- Krohn, John, Newark, N. J. Mechanical movement. No. 1,392,508; Oct. 4.
- Krohn, John, San Martin, Calif. Vehicle drive mechanism. No. 1,399,019; Dec. 6.
- Krohn, Nels, Chicago, Ill., assignor to The Adams & Westlake Company. Brake-handle. No. 1,375,709; Apr. 26; v. 285; p. 585.
- Krohn, P. G. (See Hill, Richard D., assignor.)
- Kroll, Cornelius, Tulsa, Okla. Distilling petroleum products. No. 1,373,251; Mar. 29; v. 284; p. 880.
- Kroll, William H., De Pere, Wis. Combination hinge and catch for automobile-doors. No. 1,383,548; July 5; v. 288; p. 60.
- Krom, Harry C., et al. (See Postel, Arthur F. and C. J. R., assignors.)
- Kron, Rudolf, Gersau, Switzerland. Making fibers. No. 1,376,285; Apr. 26; v. 285; p. 695.
- Krom, Stephen A., Birmingham, Ala. Sinter-pan. No. 1,391,124; Sept. 20; v. 290; p. 469.
- Krompigel, Mathew, Youngstown, Ohio. Garment-supporter. No. 1,383,642; July 5; v. 288; p. 79.
- Kronberg, Frank, Seattle, Wash. Nut-lock. No. 1,377,696; May 10; v. 286; p. 307.
- Kronenberg, Rudolf, Obilgis, Germany. Combustion-motor. No. 1,373,337; Mar. 29; v. 284; p. 897.
- Kronlund, Theodore F., assignor of one-half to A. Abers, Tacoma, Wash. Waste-recovering device for use in making mattresses. No. 1,366,390; Jan. 25; v. 282; p. 581.
- Kronquest, Alfred L. (See Robinson, D. P., Coyle, and Kronquest.)
- Kronquest, Alfred L., Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y. Method of forming and applying ring-liners to can ends. No. 1,372,961; Mar. 29; v. 284; p. 823.
- Kronquest, Alfred L., Chicago, Ill., assignor to Continental Can Co., Incorporated, Syracuse, N. Y. Machine for forming and applying ring-liners to can ends. No. 1,372,962; Mar. 29; v. 284; p. 823.
- Kronquest, Alfred L., Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y. Magazine and sheet-withdrawing mechanism therefor. No. 1,395,232; Oct. 25.
- Kronstein, Pauline. (See Viehweger, August F. W., assignor.)
- Krook, A. Elizabeth. (See Krook, John L. L.)
- Krook, John L. L., deceased, Proctor, Vt., by decree of distribution to A. E. Krook. Riveting-machine. No. 1,375,395; Apr. 19; v. 285; p. 492.
- Kropf, Walter R., assignor of one-half to A. G. Siebert, San Francisco, Calif. Mattress beating and shaping machine. No. 1,382,919; June 28; v. 287; p. 658.
- Krota, Michael, Holyoke, Mass. Rind-cutter and corer for citrus fruit. No. 1,389,765; Sept. 6; v. 290; p. 41.
- Kroth, John, Forks, N. Y. Power-wheel. No. 1,394,417; Oct. 18.
- Krotz, Alvaro S., Janesville, Wis. Tractor. No. 1,371,312; Mar. 15; v. 284; p. 404.
- Krotz, Alvaro S., assignor to Janesville Machine Company, Janesville, Wis. Detachable plowshare. No. 1,388,652; Aug. 23; v. 289; p. 713.
- Krotz, Alvaro S., assignor to The Janesville Machine Company, Janesville, Wis. Planting-machine. No. 1,397,689; Nov. 22.
- Krotzer, Charles, St. Bonifacius, Minn., assignor of one-half to L. B. Douthitt and E. W. Douthitt, Bigstone, S. D. Bean-snipper. No. 1,365,328; Jan. 11; v. 282; p. 291.
- Kroupa, Frank J., St. Louis, Mo. Steam-cooker. No. 1,369,249; Feb. 22; v. 283; p. 606.
- Kroupa, Louis L., Berwyn, Ill. Electric-circuit tester. No. 1,370,751; Mar. 8; v. 284; p. 235.
- Kroyer, John M., Stockton, Calif. Tractor. No. 1,379,107; May 24; v. 286; p. 703.
- Kroyer, John M., Stockton, Calif. Transmission mechanism. No. 1,387,891; Aug. 16; v. 289; p. 507.
- Kroyer, John M., Stockton, Calif. Steering mechanism for tractors. No. 1,387,892; Aug. 16; v. 289; p. 507.
- Kroyer, John M., Stockton, Calif. Cleat for tractor-wheels. No. 1,395,432; Nov. 1.
- Kroyer, John M., Stockton, Calif. Tractor. No. 1,400,684; Dec. 20.
- Krowka, Joseph M., George West, Tex. Aeroplane-tail. No. 1,365,704; Jan. 18; v. 282; p. 403.
- Krug, William H., Oshkosh, Wis. Antiskid device for vehicles. No. 1,383,407; July 5; v. 288; p. 31.
- Krug, William H., Fond du Lac, Wis. Antiskid device. No. 1,385,010; July 19; v. 288; p. 494.
- Krueger, Adolph F., Milwaukee, Wis. Method of and apparatus for removing snow. No. 1,390,622; Sept. 13; v. 290; p. 306.
- Krueger, Clifford E. (See Handy, A., and Krueger.)
- Krueger, Otto H. (See Knauer, Ernst, assignor.)
- Krueger, Theodore H., New York, N. Y. Making paper-package fasteners. No. 1,390,211; Sept. 6; v. 290; p. 131.
- Krueger, Theodore H., New York, N. Y. Machine for making paper-package fasteners. No. 1,390,245; Sept. 6; v. 290; p. 137.
- Krueger, William F., Chicago, Ill. Pulley-casing. No. 1,398,783; Nov. 29.
- Kruesheid, Henry, and A. J. Walter, Mansfield, Ohio. Surgical instrument. No. 1,401,104; Dec. 20.
- Kruger, Harry B. (See Stranders, Julien, assignor.)
- Krull, John, Hayward, Calif. Poultry-waterer. No. 1,384,699; July 12; v. 288; p. 349.
- Kruly, Spasoje J., Miami, Ariz. Shoveling-machine. No. 1,382,001; June 21; v. 287; p. 430.
- Krum, Charles L. and H. L., assignors to Morkrum Company, Chicago, Ill. Selective or printing telegraph. No. 1,366,812; Jan. 25; v. 282; p. 666.
- Krum, Charles L. and H. L., assignor to Morkrum Company, Chicago, Ill. Telegraph-transmitter. No. 1,374,152; Apr. 5; v. 285; p. 150.
- Krum, Howard L. (See Krum, Charles L. and H. L.)
- Krump, Nic, Chicago, Ill. Safety-switch for a suspended two-rail track. No. 1,389,668; Sept. 6; v. 290; p. 22.
- Krumscheld, Peter, Roxbury, assignor of two-thirds to L. W. Kilbourn, Cambridge, Mass. Typewriter. No. 1,371,694; Mar. 15; v. 284; p. 480.
- Krumscheld, Peter, Boston, Mass. Broom or brush. No. 1,378,037; May 17; v. 286; p. 426.
- Krumwiede, Henry L., Minneapolis, Minn. Filter. No. 1,367,783; Feb. 8; v. 283; p. 235.
- Krupa, Nikolas, Reading, Pa. Potato-planter. No. 1,365,507; Jan. 11; v. 282; p. 326.
- Krupp, Leo A., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Concrete-breaking machine. No. 1,381,314; June 14; v. 287; p. 240.
- Krus, Andrew, Chicago, Ill. Hand-press and bottle-capping apparatus. No. 1,400,556; Dec. 20.
- Kruse, Albert P., Chicago, Ill. Refrigerant-holding receptacle. No. 1,379,108; May 24; v. 286; p. 703.
- Kruse, August M., Defiance, Ohio. Container. No. 1,400,685; Dec. 20.
- Kruse, Charles, San Luis Obispo, Calif. Mechanical movement. No. 1,369,445; Feb. 22; v. 283; p. 644.



- Kruse, Edward H., Fort Wayne, Ind. Connector for electric wires. No. 1,386,634; Aug. 9; v. 289; p. 203.
- Kruse, Ferdinand, New York, and J. Odorfer, Brooklyn, N. Y. Attachment for talking-machines. No. 1,380,811; June 7; v. 287; p. 94.
- Kruse, Henry T., Gull Lake, Saskatchewan, Canada. Tie. No. 1,384,531; July 12; v. 288; p. 313.
- Kruse, Herman, Jersey City, and W. C. Union, N. J. Ink. No. 1,381,648; June 14; v. 287; p. 303.
- Kruse, Herman, Jersey City, N. J. Transfer-paper and ink therefor. No. 1,393,142; Oct. 11.
- Kruse, Louis J. H., Fort Wayne, Ind. Regulating-valve for air-brake systems. No. 1,383,218; June 28; v. 287; p. 715.
- Kruse, Theodore H., Arvada, Colo. Railway-tie. No. 1,370,025; Mar. 1; v. 284; p. 51.
- Kruse, Theodore H., Arvada, Colo. Railway-tie. No. 1,370,129; Mar. 1; v. 284; p. 70.
- Kruse, William C. (See Kruse, Herman, and W. C.)
- Krutsch, Willis W., Coffeyville, Kans. Resilient wheel. No. 1,384,901; July 19; v. 288; p. 470.
- Krux, Frank, Chicago, Ill. Stove. No. 1,395,433; Nov. 1.
- Krycki, Michael, Sacramento, Calif. Washing-machine. No. 1,377,255; May 10; v. 286; p. 223.
- Kryder, Frank L., Akron, Ohio. Shoe attachment. No. 1,392,579; Oct. 4.
- Kryzanowsky, Constant J., Mount Washington, assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Opener. No. 1,393,029; Oct. 11.
- Kryzanowsky, Constant J., Mount Washington, assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Camera. No. 1,393,793; Oct. 18.
- Kuballo, Leopold, Seattle, Wash. Closet-seat screen. No. 1,366,695; Jan. 25; v. 282; p. 642.
- Kube, Frederick E., Clinton, Iowa. Turbine. No. 1,394,772; Oct. 25.
- Kubelka, Vratislav, Brooklyn, N. Y. Tire. No. 1,383,822; July 5; v. 288; p. 117.
- Kubelka, Vratislav, Brooklyn, N. Y. Antiskid device. No. 1,383,823; July 5; v. 288; p. 117.
- Kubik, Andrew, Michigan City, Ind. Dumping-door actuator. No. 1,389,449; Aug. 30; v. 289; p. 927.
- Kubik, Eugene C., St. Louis, Mo. Dustbrush for pencils. No. 1,386,635; Aug. 9; v. 289; p. 204.
- Kubler, Johann. (See Häberli, F., and Kubler.)
- Kublin, Frederick W. (See Gutweiler, J. L., and Kublin.)
- Kuc, Wasyli, Winnipeg, assignor of one-half to J. Zurowsky, Fisher Branch, Manitoba, Canada. Padlock. No. 1,398,380; Nov. 29.
- Kucera, Peter, assignor to Capstan Glass Company, South Connellsville, Pa. Apparatus for assembling cellular forms. No. 1,374,454; Apr. 12; v. 285; p. 249.
- Kuciewicz, John, Cleveland, Ohio. Screw. No. 1,365,508; Jan. 11; v. 282; p. 326.
- Kucharski, Stanislaus, Charlottenburg, near Berlin, assignor to R. A. Hansemann, Berlin, Germany. Device for maintaining the slack of cinematographic films. No. 1,395,119; Oct. 25.
- Kuchta, Daniel M., and F. Ballou, Brooklyn, N. Y. Striking-machine. No. 1,366,192; Jan. 18; v. 282; p. 498.
- Kucinski, Jan, Chicago, Ill. Child's vehicle. No. 1,379,993; May 31; v. 286; p. 944.
- Kuczynski, Joseph, Jamaica, N. Y. Quick-adjustable window-shade holder. No. 1,371,033; Mar. 8; v. 284; p. 288.
- Kudo, Harold M., Honolulu, Hawaii. Landing-gear for aeroplanes. No. 1,387,057; Aug. 9; v. 289; p. 290.
- Kuebler, John P., Chicago, Ill. Seal. No. 1,372,703; Mar. 29; v. 284; p. 770.
- Kuebler, Otto C., Yonkers, N. Y. Collapsible and ventilating bell or forcing-glass. No. 1,392,178; Sept. 27; v. 290; p. 755.
- Kuehl, August. (See Schroeder, C., and Kuehl.)
- Kuehl, Carsten H. (See Szilanyi, William, assignor.)
- Kuehn, Charles P., assignor to A. Stein & Company, Chicago, Ill. Buckle. No. 1,393,143; Oct. 11.
- Kuehn, Max R. (See Pierce, R. S., and Kuehn.)
- Kuehn, Paul, Denver, Colo. Air-pump. No. 1,375,160; Apr. 19; v. 285; p. 448.
- Kuehn, Paul O., South Bend, Ind. Book-index. No. 1,390,623; Sept. 13; v. 290; p. 306.
- Kuehnhold, Otto J., assignor to The Scientific Heater Company, Cleveland, Ohio. Auxiliary heater for furnaces. No. 1,375,848; Apr. 26; v. 285; p. 611.
- Kuen, Eugene A., assignor to The Thos. J. Corcoran Lamp Company, Cincinnati, Ohio. Fastening for automobile-lamp closures. No. 1,391,327; Sept. 20; v. 290; p. 511.
- Kuenhold, Otto J., Cleveland, Ohio. Heater for garages and other uses. No. 1,392,016; Sept. 27; v. 290; p. 724.
- Kuenneth, George W., assignor to J. Kuenneth, Paterson, N. J. Braking device. No. 1,386,120; Aug. 2; v. 289; p. 32.
- Kuenneth, George W., assignor, by mesne assignments, to J. Kuenneth, Paterson, N. J. Warping-machine. No. 1,387,993; Aug. 16; v. 289; p. 507.
- Kuenneth, Jeannette. (See Kuenneth, George W., assignor.)
- Kuentzel, Curt, assignor to The Akron Rubber Mold & Machine Company, Akron, Ohio. Tire-making machine. No. 1,364,386; Jan. 4; v. 382; p. 65.
- Kuenz, Pauline. (See Holly, Leslie, assignor.)
- Kuentzel, Curt, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-core-stripping machine. No. 1,395,434; Nov. 1.
- Kuenzinger, Joseph G., Chicago, Ill. Sectional demountable rim. No. 1,401,542; Dec. 27.
- Kuert, Ira J., Los Angeles, Calif. Concrete form. No. 1,400,751; Dec. 20.
- Kuffel, David C., assignor of one-half to H. D. Williams, Randsburg, Calif. Safety coupling-hook. No. 1,375,301; Apr. 19; v. 285; p. 475.
- Kufner, Albert, Salem, Oreg. Combined dust-cap and valve-cap for pneumatic tires. No. 1,372,963; Mar. 29; v. 284; p. 823.
- Kugel, Emil W. R., Benedict, Nebr. Canning apparatus. No. 1,390,142; Sept. 6; v. 290; p. 118.
- Kugler, Charles H., Lexington, Nebr. Airplane. No. 1,371,493; Mar. 15; v. 284; p. 441.
- Kugler, Charles H., Lexington, Nebr. Shock-absorber. No. 1,389,054; Aug. 30; v. 289; p. 848.
- Kugler, Charles H., Lexington, Nebr. Yieldable connecting-rods. No. 1,389,055; Aug. 30; v. 289; p. 848.
- Kuhhorn, John, New York, N. Y. Return-envelop. No. 1,373,512; Apr. 5; v. 285; p. 26.
- Kuhl, George H., assignor to Automatic Electric Company, Chicago, Ill. Voice-current telephone repeater. No. 1,398,728; Nov. 29.
- Kuhlberger, Gustaf A., *et al.* (See Cederberg, Ivar W., assignor.)
- Kuhlemeier, Fred J., and R. J. Quelle; said Quelle assignor to said Kuhlemeier, Burlington, Iowa. Roaster. No. 1,377,591; May 10; v. 286; p. 287.
- Kuhlemeier, Fred J., and F. Meyer; said Meyer assignor to said Kuhlemeier, Burlington, Iowa. Rotatable oven. No. 1,377,592; May 10; v. 286; p. 287.
- Kuhlemeier, Frederick J. (See Prell, Henry, assignor.)
- Kuhlman, Carl H., Toledo, Ohio. Switch-box. No. 1,393,794; Oct. 18.
- Kuhn, Arthur G., Covington, Ky. Automobile-tire. No. 1,401,610; Dec. 27.
- Kuhn, Frank, and Jay A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electric heater. No. 1,368,265; Feb. 15; v. 283; p. 375.
- Kuhn, Frank and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electric cooking-range. No. 1,376,208; Apr. 26; v. 285; p. 680.
- Kuhn, Frank and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electrical heating unit. No. 1,376,209; Apr. 26; v. 285; p. 680.
- Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electric heater. No. 1,388,270; Aug. 23; v. 289; p. 638.
- Kuhn, Frank, J. A. Hand, and J. G. Spiess, assignors to American Electrical Heater Company, Detroit, Mich. Terminal connection for electrical heating units. No. 1,400,686; Dec. 20.
- Kuhn, Frank, L. H. Thomas, and J. G. Spiess, assignors to American Electrical Heater Company, Detroit, Mich. Soldering-iron. No. 1,394,562; Oct. 25.
- Kuhn, Frank F., assignor of one-half to A. C. Forsyth, Minneapolis, Minn. Lock mechanism for ignition-control and theft-alarm device for automobiles. No. 1,366,085; Jan. 18; v. 282; p. 478.
- Kuhn, Frederick X., Brookline, Mass. Cutting or slicing machine. No. 1,368,442; Feb. 15; v. 283; p. 410.
- Kuhn, George W., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Operator's trunk-circuits. No. 1,392,179; Sept. 27; v. 290; p. 756.
- Kuhn, George W., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Electrical testing system. No. 1,397,975; Nov. 22.
- Kuhn, Harry A., Edgewood, Md. Antidimming composition. No. 1,394,773; Oct. 25.
- Kuhn, Harry A., Edgewood, Md. Autidimming composition. No. 1,394,774; Oct. 25.
- Kuhne, Beat, Lewiston, Mont. Clamp unit for hose connections and pipe connections. No. 1,384,962; July 19; v. 288; p. 483.
- Kuhns, George, Temple, Okla. Wrench. No. 1,378,687; May 17; v. 286; p. 551.
- Kuhns, John H., Wilkinsburg, Pa., assignor, by mesne assignments, to Hi Voltage Equipment Company. Switch. No. 1,373,008; Mar. 29; v. 284; p. 832.
- Kuhnenn, Henry, Avoca, Nebr. Gopher-trap. No. 1,386,063; Aug. 2; v. 289; p. 20.
- Kuikka, Edvard, assignor to Aktiebolaget Original-Odhner, Gottenberg, Sweden. Calculating-machine. No. 1,385,350; July 19; v. 288; p. 562.
- Kukac, Edward J., Chicago, Ill. Hand-mold. No. 1,382,294; June 21; v. 287; p. 484.
- Kukielski, Anton, Jersey City, N. J. Elevating coal-truck. No. 1,382,428; June 21; v. 287; p. 511.
- Kukulka, Valentine, Muskegon Heights, Mich. Varnish-catcher. No. 1,396,584; Nov. 8.
- Kula, Thomas J., Merino, Colo. Crowning-machine. No. 1,401,912; Dec. 27.
- Kulakowski, Adam, Cincinnati, Ohio. Food-chopper. No. 1,367,402; Feb. 1; v. 283; p. 104.
- Kules, Leo, Mount Washington, Pa. Door-hanger. No. 1,365,594; Jan. 11; v. 282; p. 343.
- Kules, Leo, Mount Washington, Pa. Door-hanger. No. 1,377,135; May 3; v. 286; p. 144.
- Kules, Leo, Mount Washington, Pa. Door-hanger. No. 1,384,325; July 12; v. 288; p. 270.
- Kules, Leo, Mount Washington, Pa. Hasp. No. 1,389,450; Aug. 30; v. 289; p. 927.
- Kuller, John A., Brooklyn, N. Y. Window-raising device. No. 1,372,171; Mar. 22; v. 284; p. 627.



## Alphabetical list of patentees—Continued.

- Kulier, John A., Brooklyn, N. Y. Lock device. No. 1,385,558; July 26; v. 288; p. 682.
- Kulier, John A., Brooklyn, N. Y. Latch device. No. 1,396,441; Nov. 8.
- Kulikoff, Andy, Pittsburgh, Pa. Padlock. No. 1,398,233; Nov. 29.
- Kulman, Charles, Brooklyn, N. Y., assignor of one-half to A. E. Thomas, West New York, N. J. Scow. No. 1,397,527; Nov. 22.
- Kulp, Charles F., Wellston, Mo. Stove. No. 1,380,396; June 7; v. 287; p. 13.
- Kummer, John W., Seattle, Wash. Combination rail-seat, tie-plate, and rail-tie clamp. No. 1,380,979; June 7; v. 287; p. 126.
- Kunau, Oscar F. C., Buffalo, N. Y. Knitting-machine. No. 1,387,783; Aug. 16; v. 289; p. 46.
- Kundinger, Leonard, Sebewaing, Mich. Bean-separator. No. 1,371,313; Mar. 15; v. 284; p. 404.
- Kundtz, Theodor, Company, The. (See Kundtz, Theodor, assignor.)
- Kundtz, Theodor, Lakewood, assignor to The Theodor Kundtz Company, Cleveland, Ohio. Drophead-sewing-machine cabinet. No. 1,379,828; May 31; v. 286; p. 913.
- Kunert, Arthur O., assignor of one-half to T. H. McEnroe, Fargo, N. D. Tire-fastener. No. 1,373,009; Mar. 29; v. 284; p. 832.
- Kunitz, Hannibal A., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Atomizing-burner. No. 1,373,565; Apr. 5; v. 285; p. 36.
- Kunitz, Hannibal A., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Burner. No. 1,374,153; Apr. 5; v. 285; p. 150.
- Kunke, Edward G., and H. E. Thompson, Oklahoma, Okla. Pressure gage and cut-off for pneumatic tires. No. 1,387,991; Aug. 16; v. 289; p. 526.
- Kunkel, Albert R., San Antonio, Tex. Burner. No. 1,385,875; July 26; v. 288; p. 746.
- Kunkel, Eli, North Platte, Nebr. Water-motor. No. 1,381,712; June 14; v. 287; p. 316.
- Kunkel, Fred E., Washington, D. C. Clip for guide-cards. No. 1,364,560; Jan. 4; v. 282; p. 99.
- Kunkel, Frederick E., Washington, D. C. Filing-drawer and card-holder. No. 1,382,429; June 21; v. 287; p. 511.
- Kunkel, Victor V. (See Crawford, Beatty M., assignor.)
- Kunkle, Bayard D., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system for automobiles. No. 1,374,586; Apr. 12; v. 285; p. 275.
- Kunkle, George, Grand Junction, Colo. Radium hydromanometer. No. 1,395,120; Oct. 25.
- Kunishige, Keishiro, Los Angeles, Calif. Takedown table. No. 1,397,764; Nov. 22.
- Kuntz, Jake J., Oakville, Iowa. Automobile-fender brace. No. 1,375,594; Apr. 19; v. 285; p. 530.
- Kuntz, Matthias F., Dayton, Ohio. Combination lock. No. 1,377,697; May 10; v. 286; p. 307.
- Kunz, Charles A., Dubuque, Iowa. Pneumatic-tool support. No. 1,370,026; Mar. 1; v. 284; p. 51.
- Kunz, Jakob, assignor to Board of Trustees of The University of Illinois, Urbana, Ill. Photo-electric cell, method of and means for making the same. No. 1,381,474; June 14; v. 287; p. 270.
- Kunz, John L., Milwaukee, Wis. Automobile-wheel. No. 1,384,902; July 19; v. 288; p. 471.
- Kunze, Arthur F., Montreal, Quebec, Canada. Couch-bed construction. No. 1,381,475; June 14; v. 287; p. 270.
- Kunzelman, John R., Iron River, Wis. Steering mechanism for motor-driven vehicles. No. 1,370,653; Mar. 8; v. 284; p. 216.
- Kunzer, John J., assignor to J. T. Ryerson & Son, Chicago, Ill. Making drills or the like. No. 1,379,994; May 31; v. 286; p. 944.
- Kunzer, John J., assignor to J. T. Ryerson & Son, Chicago, Ill. Making drills or the like. No. 1,379,995; May 31; v. 286; p. 944.
- Kunzler, John W., Pittsburgh, Pa. Casting plate-glass and apparatus therefor. No. 1,396,330; Nov. 8.
- Künzli, Carl. (See Schaub, H., and Künzli.)
- Kuper, Henry G., Columbus, Nebr. Device for truing crank-shafts of engines. No. 1,378,799; May 17; v. 286; p. 572.
- Kupfer, David, Chicago, Ill. Machine for cutting plastic materials. No. 1,380,723; June 7; v. 287; p. 76.
- Kupfer, Walter S., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Superposed drier and kiln. No. 1,369,285; Feb. 22; v. 283; p. 613.
- Kupke, Friedrich W., Gera, Reuss, Germany. Chuck. No. 1,384,020; July 5; v. 288; p. 158.
- Küppers, Karl, Aachen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Method of and apparatus for forming glass tubes. No. 1,395,963; Nov. 1.
- Kurda, Karl, Nuremberg, assignor to Siemens-Schuckertwerke G. M. B. H., Berlin, Germany. Protective system for electrical conductors. No. 1,368,811; Feb. 15; v. 283; p. 482.
- Kurelich, Anthony, Latuda, Utah. Automatic gooseneck-releaser for crossover tipple-dumps. No. 1,396,127; Nov. 8.
- Kurey, Joseph W. (See Suhajda, S., Adamowski, and Kurey.)
- Kurk, Frederick W., assignor to Wilson & Company, Chicago, Ill. Curing meat. No. 1,380,068; May 31; v. 286; p. 957.
- Kurk, Frederick W., assignor to Wilson & Company, Chicago, Ill. Curing meat. No. 1,380,069; May 31; v. 286; p. 959.
- Kurk, Frederick W., assignor to Wilson & Company, Chicago, Ill. Curing meat. No. 1,380,070; May 31; v. 286; p. 959.
- Kurkjian, Armen S., assignor to Oliver Machinery Company, Grand Rapids, Mich. Combination handwheel and faceplate for lathes. No. 1,399,969; Dec. 13.
- Kuroishi, Ichiji, Tokyo, Japan. Changeable centrifugal pump. No. 1,374,747; Apr. 12; v. 285; p. 306.
- Kurose, Kaemon, Seattle, Wash. Combination instrument. No. 1,368,944; Feb. 15; v. 283; p. 507.
- Kurowski, Alfred G. F., Brooklyn, assignor to W. Ile, New York, N. Y. Apparatus for fastening closure-supporting members to tubular casings. No. 1,367,878; Feb. 8; v. 283; p. 254.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,370,322; Mar. 1; v. 284; p. 108.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,370,323; Mar. 1; v. 284; p. 108.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,371,909; Mar. 15; v. 284; p. 520.
- Kurowski, Alfred G. F., Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,383,643; July 5; v. 288; p. 79.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,384,532; July 12; v. 288; p. 313.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,386,636; Aug. 9; v. 289; p. 204.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,388,957; Aug. 30; v. 289; p. 828.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,389,949; Sept. 6; v. 290; p. 79.
- Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,395,503; Nov. 1.
- Kurowskit, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,367,784; Feb. 8; v. 283; p. 235.
- Kurre, Henry A. F., Brooklyn, N. Y. Curtain for lamp shades or domes. No. 1,399,564; Dec. 6.
- Kurt, Otto A., Los Angeles, and S. C. Bartholdi, Porterville, Calif. Dish-did container. No. 1,366,265; Jan. 18; v. 282; p. 513.
- Kurtenbach, Charles, et al. (See Wasyliv, Sem, assignor.)
- Kurtenbach, Ferdinand, et al. (See Wasyliv, Sem, assignor.)
- Kurtz, Carl A., Sac City, Iowa. Radiator-repair stand. No. 1,397,931; Nov. 22.
- Kurtz, Clinton J., San Diego, Calif. Irrigation-valve. No. 1,399,484; Dec. 6.
- Kurtz, Cyrus B., Lakewood, Ohio. Shock-absorber. No. 1,370,596; Mar. 8; v. 284; p. 205.
- Kurtz, Cyrus B., Lakewood, Ohio. Transmission mechanism. No. 1,378,470; May 17; v. 286; p. 508.
- Kurtz, Cyrus B., Lakewood, Ohio. Transmission-control mechanism. No. 1,381,713; June 14; v. 287; p. 316.
- Kurtz, Cyrus B., Lakewood, Ohio. Transmission mechanism. No. 1,400,687; Dec. 20.
- Kurz, William M., Newark, N. J. Indicator and alarm for refrigerator drip-pans. No. 1,384,767; July 19; v. 288; p. 444.
- Kurtzon, Morris, assignor to Garden City Plating & Manufacturing Company, Chicago, Ill. Counter-protecting bracket. No. 1,373,137; Mar. 29; v. 284; p. 857.
- Kusel, Isidor J., assignor to Stronghart Company, Chicago, Ill. Small bank. No. 1,369,674; Feb. 22; v. 283; p. 689.
- Kusel, Isidor J., assignor to Stronghart Company, Chicago, Ill. Small bank. No. 1,369,675; Feb. 22; v. 283; p. 689.
- Kusel, Isidor J., Chicago, Ill. Small-coin bank. No. 1,392,689; Oct. 4.
- Kusel, Isidor J., assignor to Stronghart Company, Chicago, Ill. Illuminated sign. No. 1,400,296; Dec. 13.
- Kushner, George, Avella, Pa. Coal-car. No. 1,367,271; Feb. 1; v. 283; p. 77.
- Kushner, Samuel, New York, N. Y. Pneumatic alarm. No. 1,393,382; Oct. 11.
- Kusisto, Onnie M., Leeds, N. Y. Attachment for pliers. No. 1,369,676; Feb. 22; v. 283; p. 689.
- Kusterer, Aloysius J., assignor to Consolidated Paper and Box Manufacturing Company, Richmond, Va. Tray-making machine. No. 1,389,197; Aug. 30; v. 289; p. 876.
- Kusterle, Frank, assignor to Simmons Company, Kenosha, Wis. Corner-fastening. No. 1,389,950; Sept. 6; v. 290; p. 79.
- Kutner, Solomon, assignor, by mesne assignments, to Rapid Roller Co., Chicago, Ill. Manufacturing printers' rollers. No. 1,379,109; May 24; v. 286; p. 703.



- Kutner, Solomon, assignor, by mesne assignments, to Rapid Roller Co., Chicago, Ill. Manufacturing printers' rollers. No. 1,397,528; Nov. 22.
- Kutsche, Wilber, Western, Nebr. Electric vaporizing-gasket. No. 1,387,276; Aug. 9; v. 289; p. 331.
- Kutter, Johann, Nuremberg, Germany. Vegetable grater and slicer. No. 1,372,239; Mar. 22; v. 284; p. 641.
- Küttner, Ernst W., Berlin, Germany. Manufacturing electric coils. No. 1,381,567; June 14; v. 287; p. 288.
- Kuttruff, Adolf. (See Gaus, W., and Wild, assignors.)
- Kuttruff, Adolf. (See Hassler, Franz, assignor.)
- Kuttruff, Adolf. (See Luttringhaus, A., and Eifmaender, assignors.)
- Kuttruff, Adolf. (See Römer, Adolf, assignor.)
- Kuttruff Pickhardt & Co. (See Lendle, August, assignor.)
- Kutwicz, Frank, Montreal, Quebec, Canada. Collapsible cane. No. 1,396,372; Nov. 8.
- Kuwik, Frank, Blasell, N. Y. Fish-trapping net. No. 1,381,203; June 14; v. 287; p. 220.
- Kuyser, Jan Arthur, Edgemoor, Pa., assignor to Westinghouse Electric and Manufacturing Company. Armature-winding. No. 1,382,987; June 28; v. 287; p. 671.
- Kvorning, Andrew. (See Vierling, F. J., and Kvorning.)
- K. W. Battery Company. (See Nordhaus, William H., assignor.)
- Kwash, Wenzl, Des Moines, Iowa. Zigzag hide-cutting machine. No. 1,369,286; Feb. 22; v. 283; p. 613.
- Kwon, Doin, Honolulu, Hawaii. Sewing-machine attachment. No. 1,392,180; Sept. 27; v. 290; p. 756.
- Ky. Switch & Signal Co. (See Scoggan, Richard R., assignor.)
- Kyle, George B., assignor to The Measuregraph Company, St. Louis, Mo. Mounting for measuring-machines. No. 1,382,430; June 21; v. 287; p. 511.
- Kyle, Jesse T., and V. W. Russell, Brea, Calif. Oil-trap for wells and pipe-lines. No. 1,390,793; Sept. 13; v. 290; p. 340.
- Kyle, William, Bellville, Ontario, Canada. Locomotive driving-wheel. No. 1,396,129; Nov. 8.
- Kynoch Limited. (See Stephens, Richard H., assignor.)
- Kyokuto Jidoshia Kogyo Co. (See Watanabe, Masanori, assignor.)
- Kytlica, John F., Chicago, Ill. Internal-combustion engine. No. 1,371,974; Mar. 15; v. 284; p. 533.
- Kuzell, Charles R., Clarkdale, Ariz. Manufacturing lithopone. No. 1,399,500; Dec. 6.
- L. A. Submarine Boat Company. (See Hoar, Allen, assignor.)
- L. D. Caulk Co., The. (See Taylor, Daniel E., assignor.)
- L. P. T. Specialty Company. (See Lockhart, George L., assignor.)
- L-W-F Engineering Company. (See Black, Archibald, assignor.)
- L-W-F Engineering Company. (See Willard, Charles F., assignor.)
- Laacke, Richard T., Milwaukee, Wis. Animal-cover. No. 1,398,381; Nov. 29.
- Labadie, Charles E., Michigan City, Ind. Hydroairship. No. 1,382,094; June 21; v. 287; p. 447.
- Labarthe, Jules, San Francisco, Calif. Ore-furnace and the venting thereof. No. 1,370,215; Mar. 1; v. 284; p. 87.
- Labarthe, Jules, San Francisco, Calif. Furnace charging and smelting. No. 1,376,947; May 3; v. 286; p. 108.
- La Batt, Charles P., Santa Monica, Calif. Amusement device. No. 1,384,063; July 19; v. 288; p. 483.
- La Bauve, William H., West Columbia, Tex. Automatic cut-off. No. 1,370,455; Mar. 1; v. 284; p. 133.
- Labbé, Antoine G. (See Turney, H. L., and Labbé.)
- La Belle, William A., St. Louis, Mo. Gasolene-heater. No. 1,366,916; Feb. 1; v. 283; p. 7.
- La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Machine for making compound boxes. No. 1,370,654; Mar. 8; v. 284; p. 216.
- La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Blank-feeder. No. 1,380,483; June 7; v. 287; p. 30.
- La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Partitioning for boxes. No. 1,382,787; June 28; v. 287; p. 633.
- La Bombard, Leon E., assignor to Specialty Automatic Machine Company, Chelsea, Mass. Stacker. No. 1,382,788; June 28; v. 287; p. 633.
- Labombarde, Elie W., Nashua, N. H. Paper receptacle for liquids. No. 1,365,250; Jan. 11; v. 282; p. 276.
- Labombarde, Elie W., Nashua, N. H. Paper box. No. 1,365,251; Jan. 11; v. 282; p. 276.
- La Bonte, Monte C., Los Angeles, Calif. Sun and rain shield for automobiles. No. 1,367,152; Feb. 1; v. 283; p. 54.
- Labor, John C. (See Middleton, Percy R., assignor.)
- Laborda, Richard, assignor of one-half to J. D. Spreckles, Jr., San Francisco, Calif. Sugar packing and boxing machine. No. 1,367,821; Feb. 8; v. 283; p. 243.
- La Bour, Harry E., assignor to Chemical Equipment Company, Chicago, Ill. Pumping system. No. 1,377,256; May 10; v. 286; p. 223.
- La Brant, Paul R., and A. C. Nordhaugen, Stanley, N. D. Automobile-wheel-rim-straightening device. No. 1,400,297; Dec. 13.
- Laburda, Walter, Coalton, Okla. Grinding-mill. No. 1,366,391; Jan. 25; v. 282; p. 581.
- Laburda, Walter, Coalton, Okla. Animal-trap. No. 1,380,108; May 31; v. 286; p. 966.
- Lacene Manufacturing Company. (See Cogswell, Leander A., assignor.)
- Lacerda, Harry A., Jersey City, N. J., assignor to R. W. Benson, New York, N. Y. Lubricating-packing. (Re-issue.) No. 15,078; Apr. 5; v. 285; p. 154.
- Lacey, Edyth, New York, N. Y. Toy. No. 1,394,096; Oct. 18.
- Lachance, Joseph, Morgan Hill, Calif. Plowing device. No. 1,376,147; Apr. 26; v. 285; p. 669.
- Lachapelle, Cyrille, St. Paul l'Ermite, Quebec, Canada. Planter. No. 1,394,097; Oct. 18.
- Lachman, Laurence S. (See Lachman, Maurice and L. S.)
- Lachman, Laurence S., New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,378,876; May 24; v. 286; p. 659.
- Lachman, Laurence S., New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,380,217; May 31; v. 286; p. 986.
- Lachman, Laurence S., New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,383,824; July 5; v. 288; p. 118.
- Lachman, Laurence S., New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal vehicle-wheel. No. 1,385,380; July 26; v. 288; p. 645.
- Lachman, Laurence S., New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal vehicle-wheel. No. 1,393,796; Oct. 18.
- Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Tubular-spoke wheel. No. 1,378,038; May 17; v. 286; p. 426.
- Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,378,039; May 17; v. 286; p. 426.
- Lachman, Maurice, New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,378,877; May 24; v. 286; p. 659.
- Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,380,218; May 31; v. 286; p. 986.
- Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,380,219; May 31; v. 286; p. 986.
- Lachman, Maurice, New York, N. Y. Metal pole, girder, or beam. No. 1,382,199; June 21; v. 287; p. 466.
- Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,385,381; July 26; v. 288; p. 645.
- Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,391,064; Sept. 20; v. 290; p. 457.
- Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,393,795; Oct. 18.
- Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,393,797; Oct. 18.
- Lachman, Maurice, assignor to Universal Electric Welding Company, New York, N. Y. Railing, gate, grille, &c. No. 1,396,442; Nov. 8.
- Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,396,443; Nov. 8.
- Lachman, Maurice and L. S., New York, N. Y., assignor to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,398,558; Nov. 29.
- Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,400,173; Dec. 13.
- Lachmann, Gerhard H., et al. (See Braun, Carl A., assignor.)
- Lachmann, Hildegard M., et al. (See Braun, Carl A., assignor.)
- Lachmann, Rudolf G., et al. (See Braun, Carl A., assignor.)
- Lacina, Frank J., Clarkson, Nebr. Dispensing-can. No. 1,382,200; June 21; v. 287; p. 466.
- Lackawanna Steel Company. (See Boardman, Charles S., assignor.)
- Lackawanna Steel Company. (See Conkling, Cloud C., assignor.)
- Lackie, Oscar M., Duluth, Minn. Road-machine. No. 1,393,724; Oct. 11.
- Lackie, William F., Opportunity, Wash. Insect-exterminator. No. 1,397,218; Nov. 15.
- Lackner, Ralph J., New York, N. Y. Punch for paper. No. 1,368,443; Feb. 15; v. 283; p. 410.
- Lackner, Ralph J., New York, N. Y. Vehicle-wheel. No. 1,375,051; Apr. 19; v. 285; p. 427.
- Laclede-Christy Clay Products Company. (See Berry, Charles W., assignor.)
- La Croix, Edgar S., Duluth, Minn. Mixing-machine. No. 1,379,707; May 31; v. 286; p. 890.



## Alphabetical list of patentees—Continued.

- La Croix, Emile, Holyoke, and E. A. Loomis, South Hadley Falls, Mass. Device for attaching automobile-mats to running-boards. No. 1,866,570; Jan. 25; v. 282; p. 618.
- Lacy, Benjamin B., Houston, Tex. Cable-clamp. No. 1,372,704; Mar. 29; v. 284; p. 770.
- Lacy, Benjamin B., Houston, Tex. Turbine governor-valve. No. 1,397,812; Nov. 22.
- Lacy, Charles G., deceased; L. Lacy, administratrix, Alliance, Ohio. Plastic-material furnace. No. 1,392,181; Sept. 27; v. 290; p. 756.
- Lacy, Lydia, administratrix. (See Lacy, Charles G.)
- Ladd, Allston C., Turlock, Calif. Shoestring-tip. No. 1,378,688; May 17; v. 286; p. 551.
- Ladd, Edward T., Niagara Falls, N. Y. Soap. No. 1,370,824; Mar. 8; v. 284; p. 249.
- Ladd, James B., Ardmore, Pa. Handling bricks. No. 1,373,513; Apr. 5; v. 285; p. 27.
- Ladd, John W., Company. (See Mason, William G., assignor.)
- Ladd, Lester L., assignor to Photometric Products Corporation, Chicago, Ill. Switching or selecting mechanism. No. 1,391,195; Sept. 20; v. 290; p. 483.
- Ladd, Lester L., assignor to Photometric Products Corporation, Lockport, Ill. Sorting-machine. No. 1,396,221; Nov. 8.
- Ladd, Theodore K., Valley Mills, Tex. Broom-corn-tabling machine. No. 1,396,331; Nov. 8.
- La Duke, Charley. (See Wilcox, W., and La Duke.)
- La Duke, Emery E., Salt Lake City, Utah. Centrifugal basket. No. 1,394,743; Oct. 25.
- Ladwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Channel structure for tonneau-panels. No. 1,398,971; Dec. 6.
- Lafata, Antonio, Harbor City, Calif. Gravity labeling-machine. No. 1,394,744; Oct. 25.
- La Fay, Arthur J., Toronto, assignor of one-half to H. R. Tudhope, Orillia, Ontario, Canada. Heating apparatus. No. 1,391,838; Sept. 27; v. 290; p. 687.
- La Fay, Arthur J., Toronto, assignor of one-half to H. R. Tudhope, Orillia, Ontario, Canada. Heating apparatus. No. 1,391,839; Sept. 27; v. 290; p. 687.
- Lafayette, Albert A., Lawrence, Mass. Lug-strap holder. No. 1,376,148; Apr. 26; v. 285; p. 669.
- La Fayette Motors Company. (See Applin, John W., assignor.)
- La Fayette Motors Company. (See Menges, L. A., and Simpson, assignors.)
- La Fayette Motors Company. (See White, D'Orsay M., assignor.)
- La Fehr, Francis E., E. M. Hitchcock, and H. V. Leahy, Los Angeles, Calif. Carbureter. No. 1,376,707; May 3; v. 286; p. 61.
- Laffey, Joseph M., Chatfield, Minn. Feeding-pan for huskers. No. 1,368,266; Feb. 15; v. 283; p. 376.
- Lafamme, Aidama. (See Lafamme, Arthur, assignor.)
- Lafamme, Arthur, assignor of one-half to A. Lafamme, Montreal, Quebec, Canada. Adhesive composition. No. 1,380,568; June 7; v. 287; p. 46.
- La Fleur, Benjamin S., Haverhill, assignor to The Reece Button Hole Machine Company, Boston, Mass. Machine for rough-rounding and lasting stitched-down shoes. No. 1,398,524; Nov. 29.
- La Fleur, Peter J., assignor of one-half to F. H. Gunther, Chicago, Ill. Fender. No. 1,372,520; Mar. 22; v. 284; p. 694.
- Lafleur, Sinai, Foleyet, Ontario, assignor of one-third to J. E. Coron, Montreal, Quebec, Canada. Automatic train-stop. No. 1,378,800; May 17; v. 286; p. 572.
- Lafond, Joseph V., Chicago, Ill. Handle and protector for teakettles. No. 1,388,958; Aug. 30; v. 289; p. 829.
- Lafond, Joseph V., Chicago, Ill. Handle and shield for cooking vessels. No. 1,391,125; Sept. 20; v. 290; p. 470.
- Lafontaine, George A., Los Angeles, Calif. Trolley-restoring mechanism. No. 1,391,392; Sept. 20; v. 290; p. 523.
- La Fontaine, George A., assignor of one-half to O. Steinen, Los Angeles, Calif. Hair-clipper. No. 1,376,628; May 3; v. 286; p. 47.
- Lafontaine, Hector J., Chicago, Ill. Wall construction. No. 1,367,785; Feb. 8; v. 283; p. 236.
- La France, Richard, assignor to The Owens Bottle Machine Company, Toledo, Ohio. Apparatus for manipulating hot glass. No. 1,390,448; Sept. 13; v. 290; p. 269.
- Lafuente, Manuel D., Buenos Aires, Argentina. Folding shutter. No. 1,370,324; Mar. 1; v. 284; p. 108.
- Lage, Ernst, assignor to Fried. Krupp Aktiengesellschaft Germanlawerft, Kiel-Gaarden, Germany. Gear-driven pump. No. 1,386,261; Aug. 2; v. 289; p. 60.
- Lagelbauer, Ferdinand, St. Paul, Minn. Rocking-horse. No. 1,383,468; July 5; v. 288; p. 44.
- Lagerquist, Henry, and J. P. Anderson, Des Moines, Iowa. Sandpapering device. No. 1,365,924; Jan. 18; v. 282; p. 447.
- Laggiard, Jean-Baptiste M. B., Marseille, France. Mud-guard for motor-cars. No. 1,387,412; Aug. 9; v. 289; p. 360.
- La Gier, August F., assignor of one-third to J. F. Miller and one-third to I. R. Smith, Los Angeles, Calif. Sanitary can-gate. No. 1,393,689; Oct. 11.
- La Grant, John H. (See Bailey, F. L., and La Grant.)
- Lagus, Knut R. J., Abo, Finland. Portable motor-saw for felling trees, cutting logs, and sawing wood. No. 1,378,963; May 24; v. 286; p. 675.
- Laidman, Charles, Cleveland, Ohio. Table-mat. No. 1,378,471; May 17; v. 286; p. 508.
- Lainé, Henri L. (See Bellan, E., and Lainé.)
- Laing, Allen B. (See Bintliff, Wilbert T., assignor.)
- Laing, Clayton, Chicago, Ill. Blowpipe. No. 1,379,708; May 31; v. 286; p. 890.
- Laing, Sallie W., Shreveport, La. Infant's garment. No. 1,397,381; Nov. 15.
- Laing, William F., Cumberland, Md. Demountable rim. No. 1,377,079; May 3; v. 286; p. 134.
- L'Air Liquide Societe Anonyme Pour l'Etude et l'Exploitation Des Procédes Georges Claude. (See Claude, Georges, assignor.)
- Laird, Wesley E., Pittsfield, Mass. assignor to General Electric Company. Abrading device. No. 1,396,585; Nov. 8.
- Laird, Wilbur G., assignor to H. L. Doherty, New York, N. Y. Thermometer-reader. No. 1,367,879; Feb. 8; v. 283; p. 254.
- Laird, Wilbur G., assignor to H. L. Doherty, New York, N. Y. Calorimeter. No. 1,381,714; June 14; v. 287; p. 316.
- Laise, Clemens A., Weehawken, N. J., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Welding low-melting-point metals and alloys to high-melting-point metals. No. 1,390,243; Sept. 6; v. 290; p. 136.
- Lake, Clair D., Binghamton, assignor to The Tabulating Machine Company, New York, N. Y. Attachment for card-sorting machines. No. 1,372,964; Mar. 29; v. 284; p. 823.
- Lake, Clair D., Binghamton, assignor to The Tabulating Machine Company, New York, N. Y. Electric transfer device. No. 1,372,965; Mar. 29; v. 284; p. 824.
- Lake, Clair D., Binghamton, N. Y., assignor to The Tabulating Machine Company. Printing-tabulator. No. 1,379,268; May 24; v. 286; p. 733.
- Lake, Clair D., Binghamton, N. Y., assignor to The Tabulating Machine Company. Attachment for card-sorting machines. No. 1,389,951; Sept. 6; v. 290; p. 79.
- Lake, David, Norristown, Pa., assignor, by mesne assignments, to The Fulton Foundry & Machine Company, Cleveland, Ohio. Plastic composition used as a power-transmitting element in fluid-clutches. No. 1,368,945; Feb. 15; v. 283; p. 508.
- Lake, Frederick D. (See Morrison, W. A., and Lake.)
- Lake, George L., assignor of one-half to E. C. Eighmy, New Market, Iowa. Automobile-radiator. No. 1,390,794; Sept. 13; v. 290; p. 340.
- Lake, John L., and F. D. McMahon, Cleveland, Ohio. Tractor. No. 1,394,098; Oct. 18.
- Lake, St. Clair, Poughkeepsie, N. Y., assignor to Moline Plow Company. Grinding-machine. No. 1,396,130; Nov. 8.
- Lake Simcoe Ice Supply & Cold Storage Co., The. (See Fairhead, James, assignor.)
- Lake, Simon, Milford, Conn. Casting. No. 1,374,855; Apr. 12; v. 285; p. 326.
- Lake, Simon, Milford, Conn. Submarine salvaging and exploring apparatus. No. 1,379,928; May 31; v. 286; p. 931.
- Lake, Simon, Milford, Conn. Erecting concrete structures. No. 1,394,997; Oct. 25.
- Lake, Thomas A., Hillman, Mich. Jack. No. 1,387,992; Aug. 16; v. 289; p. 526.
- Lake Torpedo Boat Company, The. (See Barraja-Frauenfelder, Joseph, assignor.)
- Lakeside Supply Company. (See Foute, Raymond R., assignor.)
- Lakewood Engineering Company, The. (See Lockhart, James, assignor.)
- Lakin, William T., Long, Md. Reproducer for talking-machines. No. 1,393,293; Oct. 11.
- Lalief, Alexy, New York, N. Y. Audiphone. No. 1,366,193; Jan. 18; v. 282; p. 499.
- Lalliss, Charles J. (See Larson, O. A., and Lalliss.)
- Lally Commercial Body Company, The. (See Lally, George W., assignor.)
- Lally, Eugene F., et al. (See Rollins, Williams T., assignor.)
- Lally, George W., assignor to The Lally Commercial Body Company, Boston, Mass. Combined dumping and rear-end-elevating vehicle body. No. 1,387,413; Aug. 9; v. 289; p. 360.
- La Loie Artificielle de La Voulte. (See Auzenat, Louis G. R., assignor.)
- Lalor, John C. (See Middleton, Percy R., assignor.)
- Laloux, Georges, et al. (See Cloetens, Georges, assignor.)
- La Maida, Thomas, New York, N. Y. Buckle. No. 1,368,037; Feb. 8; v. 283; p. 283.
- La Mantia, Charles F., New York, N. Y. Bicycle skirt-shield. No. 1,373,338; Mar. 29; v. 284; p. 897.
- La Manufacture de Produits Chimiques du Nord Etablissements Kuhlmann. (See Pascal, Paul, assignor.)
- La Mar, Frank C., and P. J. Hopkins, Pittsburgh, Pa. Renewable electric fuse. No. 1,376,342; Apr. 26; v. 285; p. 706.
- Lamar, William P., Atlanta, Ga. Passenger and freight transfer system. No. 1,366,008; Jan. 18; v. 282; p. 463.



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- Lamar, William P., Atlanta, Ga. Passenger and freight transfer system. No. 1,383,220; June 28; v. 287; p. 715.
- La May, Arthur C., assignor to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,364,941; Jan. 11; v. 282; p. 217.
- Lamb, Arthur. (See Wakefield, J., and Lamb.)
- Lamb, Arthur B., Washington, D. C., and P. W. Carleton, Wilmington, Del. Respirator. No. 1,366,392; Jan. 25; v. 282; p. 581.
- Lamb, Charles C., Chicago, Ill. Egg-boiler. No. 1,377,983; May 10; v. 286; p. 364.
- Lamb, Charles C., Chicago, Ill. Egg-boiler. No. 1,377,984; May 10; v. 286; p. 364.
- Lamb, Charles C., Chicago, Ill. Washing-machine. No. 1,385,692; July 26; v. 288; p. 709.
- Lamb, David C., Detroit, Mich. Trouble-hunter. No. 1,374,455; Apr. 12; v. 285; p. 250.
- Lamb, Elden P., assignor of eleven-twentieths to J. Bird, Camden, Me. Carbureter. No. 1,376,343; Apr. 26; v. 285; p. 706.
- Lamb, Frank H., Hoquiam, Wash. Logging-block. No. 1,367,058; Feb. 1; v. 283; p. 35.
- Lamb, Frederick E., *et al.* (See Carpenter, Samuel D., assignor.)
- Lamb, Harold S., Los Angeles, Calif. Oil-burner. No. 1,399,565; Dec. 6.
- Lamb, Homer M., West Frankfort, assignor of one-third to L. Klein and one-third to G. B. Greenbaum, Frankfort, Ill. Electric-cable tap. No. 1,378,801; May 17; v. 286; p. 572.
- Lamb, Homer M., West Frankfort, assignor of one-third to L. Klein and one-third to G. B. Greenbaum, Frankfort, Ill. Sanitary clothes-locker. No. 1,378,802; May 17; v. 286; p. 573.
- Lamb, J. F., and F. E. Carlson, assignors to Landers, Frary and Clark, New Britain, Conn. Gas-mask. No. 1,388,959; Aug. 30; v. 289; p. 829.
- Lamb, John S. G., Jr., Kansas City, Mo. Gravel-cleaning apparatus. No. 1,368,267; Feb. 15; v. 283; p. 376.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Thermal circuit-breaker. No. 1,377,257; May 10; v. 286; p. 224.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Interlock for swinging power-driven wringers. No. 1,378,472; May 17; v. 286; p. 508.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Bail-car and bail. No. 1,391,257; Sept. 20; v. 290; p. 496.
- Lamb, Margaret C. T., Bowdon, England. Harness. No. 1,389,882; Sept. 6; v. 290; p. 65.
- Lamb, Paul A., Yates Center, Kans. Air-valve. No. 1,369,543; Feb. 22; v. 283; p. 624.
- Lamb, Peter, Winnipeg, Manitoba, Canada. Knife-cleaner. No. 1,395,449; Oct. 11.
- Lamb, Thomas F., Mansfield, Ohio. Coiling-machine. No. 1,395,190; Oct. 25.
- Lambeck, Max, Barmen, Germany. Making the coloring natural horn water-resisting. No. 1,395,191; Oct. 25.
- Lambert, A. L., Narbeth, and A. Bell, Philadelphia, Pa., assignors, by mesne assignments, to American Motor Body Company, Detroit, Mich. Windshield. No. 1,389,145; Aug. 30; v. 289; p. 866.
- Lambert, Alvin R. (See Lambert, John W. and A. R.)
- Lambert, Arthur W., Croydon, England. Means for supporting shelves and analogous purposes. No. 1,400,960; Dec. 30.
- Lambert, Charles R., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Firepot. No. 1,374,587; Apr. 12; v. 285; p. 275.
- Lambert, Charles R., assignor to Clayton & Lambert Manufacturing Company, Detroit, Mich. Firepot. No. 1,381,924; June 21; v. 287; p. 416.
- Lambert, Frank, assignor to Thomson Meter Company, Brooklyn, N. Y. Meter. No. 1,377,985; May 10; v. 286; p. 364.
- Lambert, Frank, assignor to Thomson Meter Company, Brooklyn, N. Y. Yielding fastening for joints. No. 1,377,986; May 10; v. 286; p. 364.
- Lambert, Frank, assignor to Thomson Meter Company, Brooklyn, N. Y. Water-meter. No. 1,377,987; May 10; v. 286; p. 364.
- Lambert, Frank, assignor to Thomson Meter Company, Brooklyn, N. Y. Method of and apparatus for finishing water-meter disks. No. 1,377,988; May 10; v. 286; p. 365.
- Lambert, Frank, Brooklyn, N. Y., assignor to Thomson Meter Company. Wrench. No. 1,388,866; Aug. 30; v. 289; p. 810.
- Lambert, Henry M., Portland, Oreg. Method and apparatus for making belts. No. 1,370,597; Mar. 8; v. 284; p. 205.
- Lambert, Henry M., Portland, Oreg. Tire-mold. No. 1,386,512; Aug. 2; v. 289; p. 107.
- Lambert, Henry M., Portland, Oreg. Tire-mold. No. 1,386,513; Aug. 2; v. 289; p. 107.
- Lambert, Henry M., Portland, Oreg. Tire-mold. No. 1,386,514; Aug. 2; v. 289; p. 107.
- Lambert, Henry M., Portland, Oreg. Wheel-rim. No. 1,393,030; Oct. 11.
- Lambert, Henry M., Portland, Oreg. Apparatus for use in making cushion-tires. No. 1,399,128; Dec. 6.
- Lambert, John R., San Antonio, Tex. Structural unit. No. 1,382,095; June 21; v. 287; p. 447.
- Lambert, John W., Anderson, Ind. Tractor. No. 1,372,756; Mar. 29; v. 284; p. 781.
- Lambert, John W. and A. R., Anderson, Ind. Chain-tread tractor. No. 1,398,382; Nov. 29.
- Lambert, Rudolph P., Chicago, Ill. Meat-transport. No. 1,391,126; Sept. 20; v. 290; p. 470.
- Lambert, Thomas B., Portland, Oreg. Weighing-machine. No. 1,374,456; Apr. 12; v. 285; p. 250.
- Lambert Tire & Rubber Co. (See Nienaber, Louis F., assignor.)
- Lambert, Victor. (See De Simone Michele G., assignor.)
- Lambert, Walter, Montreal, Quebec, Canada. Cargo vessel. No. 1,400,298; Dec. 13.
- Lambert, William O., and G. H. Pound, El Paso, Tex. Fiber-extracting machine. No. 1,389,883; Sept. 6; v. 290; p. 65.
- Lambeth, Edgar V., Hot-Springs, Ark. Signal attachment for air-brake feed-valves. No. 1,380,220; May 31; v. 286; p. 987.
- Lambling, Leo. A. (See Boehm, W., Corey, and Lambling.)
- Lame, Frank C., New York, N. Y. Cooking utensil. No. 1,377,258; May 10; v. 286; p. 224.
- Lamiell, Earld H., Greenwich, Ohio. Cultivator. No. 1,376,344; Apr. 26; v. 285; p. 706.
- Laminated Coal, Limited. (See Bowen, Richard, assignor.)
- Laminated Materials Company, Limited. (See Hood, A. N., Nightingale, Leland, and Dike, assignors.)
- Lamkin, Kenneth E., Birmingham, Ala. Adjustable telephone-support. No. 1,364,118; Jan. 4; v. 282; p. 14.
- Lamm, John T., and F. K. Huffman, Julesburg, Colo. Radiator. No. 1,381,649; June 14; v. 287; p. 303.
- Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Speed control for induction-motors. No. 1,387,496; Aug. 16; v. 289; p. 428.
- Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electrical ship propulsion. No. 1,390,624; Sept. 13; v. 290; p. 306.
- Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Means for preventing commutator-flashing. No. 1,392,182; Sept. 27; v. 290; p. 756.
- Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,382,988; Jan. 28; v. 287; p. 671.
- Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,392,255; Sept. 27; v. 290; p. 772.
- Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,396,853; Nov. 15.
- Lammertz, Henry, Philadelphia, Pa. Portable plant for the treatment of garbage, refuse, offal, dead animals, and the like. (Reissue.) No. 15,059; Mar. 8; v. 284; p. 323.
- Lamoise, Constant E., Namur, Quebec, Canada. Post-driving apparatus. No. 1,387,894; Aug. 16; v. 289; p. 507.
- Lamont, Angus, assignor of one-half to R. McDougall, Sydney, Nova Scotia, Canada. Gate. No. 1,366,086; Jan. 18; v. 282; p. 478.
- Lamont, James H., Coatesville, Pa. Catch device for adjusting straps for length. No. 1,384,666; July 12; v. 288; p. 342.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Truck construction. No. 1,377,698; May 10; v. 286; p. 308.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-car-bolster arrangement. No. 1,377,699; May 10; v. 286; p. 308.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Side frame and journal-box. No. 1,377,700; May 10; v. 286; p. 308.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Truck-side-frame arrangement. No. 1,377,701; May 10; v. 286; p. 308.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-car truck. No. 1,377,702; May 10; v. 286; p. 308.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-truck arrangement. No. 1,377,703; May 10; v. 286; p. 309.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-car truck. No. 1,377,704; May 10; v. 286; p. 309.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Truck for railway-cars. No. 1,377,705; May 10; v. 286; p. 309.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Truck-bolster. No. 1,377,706; May 10; v. 286; p. 309.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-car truck equalizing arrangement. No. 1,377,707; May 10; v. 286; p. 309.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Six-wheel equalizer-truck. No. 1,377,708; May 10; v. 286; p. 309.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Truck-equalizing arrangement. No. 1,377,709; May 10; v. 286; p. 310.



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- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-car-truck arrangement. No. 1,390,362; Sept. 13; v. 290; p. 252.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Car-truck construction. No. 1,390,449; Sept. 13; v. 290; p. 269.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-car-truck construction. No. 1,390,450; Sept. 13; v. 290; p. 270.
- Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Six-wheel equalizing-truck. No. 1,393,798; Oct. 18.
- Lamontagne, Antoine, Montreal, Quebec, Canada. Blower for ventilating systems. No. 1,375,595; Apr. 19; v. 285; p. 530.
- Lamp, George A., Rock Island, Ill. Wire-basket support. No. 1,386,878; Aug. 9; v. 289; p. 253.
- Lampert, Henry H., Chicago, Ill. Wall-tie. No. 1,366,470; Jan. 25; v. 282; p. 597.
- Lampessis, Gust, Milwaukee, Wis. Cigar and cigarette holder. No. 1,398,559; Nov. 29.
- Lampkin, Moses, St. Louis, Mo. Windshield cleaner, mirror, and sun-protector. No. 1,371,631; Mar. 15; v. 284; p. 468.
- Lampkin, Moses, St. Louis, Mo. Detachable heel. No. 1,379,452; May 24; v. 286; p. 767.
- Lampkin, Walter L., Kansas City, Mo. Auto-mop. No. 1,371,249; Mar. 15; v. 284; p. 392.
- Lamplough, Francis E., and H. J. S. Stobart, Smethwick, England. Valve-operating mechanism. No. 1,369,677; Feb. 22; v. 283; p. 689.
- Lamprecht, Carl W., assignor of one-half to J. L. Gilbert, Los Angeles, Calif. Peel-plate for baking. No. 1,373,663; Apr. 5; v. 285; p. 55.
- Lamson Company, The. (See Koenig, August, assignor.)
- Lamson Company, The. (See Taisey, Fred R., assignor.)
- Lamson Company, The. (See Whittier, Frederick G., assignor.)
- Lancaster Automatic Machine Company. (See Paul, Edward B., assignor.)
- Lancaster, Charles E. (See Toof, F. P., and Lancaster.)
- Lancaster, Frank W., Philadelphia, Pa. Air-deflecting device for window-frames. No. 1,376,210; Apr. 26; v. 285; p. 680.
- Lancaster, George W., assignor to Teller Protector Company, Inc., Richmond, Va. Silent electric signal for banks. No. 1,401,087; Dec. 20.
- Lancaster, Herbert S., Wabash, Ind. Resilient wheel. No. 1,395,435; Nov. 1.
- Lancaster, John B., Philadelphia, Pa. Tile-anchoring device. No. 1,396,764; Nov. 15.
- Lancaster, John B., Philadelphia, Pa. Tile. No. 1,398,698; Nov. 29.
- Lancaster, John T., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Heel-nailing machine. No. 1,395,838; Nov. 1.
- Lancaster, John T., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,396,131; Nov. 8.
- Lance, Ora L., San Francisco, Calif. Brush. No. 1,373,192; Mar. 29; v. 284; p. 869.
- Lance, Robert D., Livry, France, assignor of one-half to C. Shrager, London, England. Artificial silk. No. 1,398,525; Nov. 29.
- Lanchester, Frederick W., London, England. Pneumatic tire. No. 1,372,757; Mar. 29; v. 284; p. 781.
- Lancia & C. (See Zeppigno, Rodolfo, assignor.)
- Lancia, Vincenzo, Turin, Italy. Automobile. No. 1,372,148; Mar. 22; v. 284; p. 622.
- Land, Charles H., Jr., assignor of one-half to W. H. Wilson, Detroit, Mich. Trailer. No. 1,400,752; Dec. 20.
- Landau, Benjamin, Philadelphia, Pa. Shower-bath cabinet. No. 1,392,580; Oct. 4.
- Lander, Wintworth V., Newton, Mass., assignor to General Indurating Corporation, New York, N. Y. Impregnated material. No. 1,376,553; May 3; v. 286; p. 33.
- Lander, Wintworth V., Newton, Mass., assignor to General Indurating Corporation, New York, N. Y. Composition for impregnating porous material. No. 1,386,711; Aug. 9; v. 289; p. 219.
- Landers, Clyde W., New York, N. Y. Motor and dynamo construction. No. 1,375,161; Apr. 19; v. 285; p. 448.
- Landers, Frary & Clark. (See Haines, Robert E., assignor.)
- Landers, Frary and Clark. (See Lamb, J. F., and Carlson, assignors.)
- Landers, Frary & Clark. (See Lamb, Joseph F., assignor.)
- Landers, Frary & Clark. (See Twigg, Ernest, assignor.)
- Landers, Upton S., Bakersfield, Calif. Wheel-rim-clamping device for automobile-tires. No. 1,397,813; Nov. 22.
- Landers, William H., assignor of one-half to H. S. Loud, New York, N. Y. Making alkaline sulfid. No. 1,374,209; Apr. 12; v. 285; p. 202.
- Landes, Charles P., Chicago, Ill. Vehicle. No. 1,366,393; Jan. 25; v. 282; p. 581.
- Landgraf, Emma, geb. Cartharius, Dresden, Germany. Garter. No. 1,395,192; Oct. 25.
- Landgraf, Frederick K. (See Dodds, E. I., and Landgraf.)
- Landgraf, Frederick K., assignor to Flannery Bolt Company, Pittsburgh, Pa. Tool for applying staybolt sleeves to boilers. No. 1,401,611; Dec. 27.
- Landgraf, Julius, Briarcliff Manor, assignor to T. M. Adams, Elmsford, N. Y. Internal-combustion engine. (Reissue.) No. 15,019; Jan. 4; v. 282; p. 156.
- Landgrebe, Carl O., Dresden, Germany. Valve for motors and the like. No. 1,400,488; Dec. 13.
- Landgrebe, Carl O., Dresden, Germany. Spark-plug serving also as compression and injection valve for internal combustion engines. No. 1,401,612; Dec. 27.
- Landini, Achille, Cameri, Italy. Motor-car. No. 1,401,797; Dec. 27.
- Landis, Clark H., Bowling Green, Ohio. Automobile-signal. No. 1,383,312; July 5; v. 288; p. 11.
- Landis, Daniel R., Chicago, Ill. Curtain-stretcher. No. 1,367,153; Feb. 1; v. 283; p. 54.
- Landis, Edward M., Toledo, Ohio. Carbureter. No. 1,369,250; Feb. 22; v. 283; p. 607.
- Landis, Frank F., Waynesboro, Pa. Shock-diffuser. No. 1,397,429; Nov. 15.
- Landis, Harry A., Red Lion, Pa. Combination angle-tool. No. 1,398,234; Nov. 29.
- Landis, Paul, Zurich, Switzerland. Carbureter. No. 1,398,640; Nov. 29.
- Landon, Archer A., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Casting-machine. No. 1,367,059; Feb. 1; v. 283; p. 35.
- Landon, Archer A., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Controlling mechanism for rotary casting-machines. No. 1,383,729; July 5; v. 288; p. 98.
- Landon, Archer A., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Locking mechanism for rotary casting-machines. No. 1,398,134; Nov. 22.
- Landon, Chauncey L., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-tread. No. 1,384,262; July 12; v. 288; p. 257.
- Landon, Charles H. (See Parker, L. H., and Landon.)
- Landon, Hart F., Milwaukee, Wis. Automobile-headlight. No. 1,401,613; Dec. 27.
- Landon, William G., New York, N. Y. Control. No. 1,383,825; July 5; v. 288; p. 118.
- Landon, William G., New York, N. Y. Superheater. No. 1,390,046; Sept. 6; v. 290; p. 98.
- Landreth, Clarence P. (See Phillips, John W., assignor.)
- Landreth, Clarence P., Philadelphia, Pa. Method of and apparatus for treating sewage. No. 1,364,387; Jan. 4; v. 282; p. 66.
- Landreth, Clarence P., Philadelphia, Pa. Method of and apparatus for treating liquid. No. 1,378,120; May 17; v. 286; p. 442.
- Landreth, Clarence P., Philadelphia, Pa. Centrifugal apparatus. No. 1,383,313; July 5; v. 288; p. 11.
- Landriven, Joanny. (See Altwegg, J., and Landriven.)
- Landrum, Livy P., Hereford, Tex. Shovel-digger. No. 1,371,494; Mar. 15; v. 284; p. 441.
- Landry, Peter J. (See Roy, A. A., and Landry.)
- Landsiedel, Harry, Norwood, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Recording-machine. No. 1,395,121; Oct. 25.
- Landsiedel, Harry, assignor to The Dalton Adding Machine Company, Cincinnati, Ohio. Adding and recording machine. No. 1,400,610; Dec. 20.
- Landstra, Dirk S. (See Kimmerle, G. L., and Landstra.)
- Landwirtschaftliche Handelsgesellschaft M. B. H. (See Schmidt, Paul, assignor.)
- Lane, Andrew T., assignor to The Pyorr-Laris Company, St. Louis, Mo. Composition of matter. No. 1,377,780; May 10; v. 286; p. 325.
- Lane, Benjamin, Des Moines, Iowa. Pencil attachment. No. 1,391,127; Sept. 20; v. 290; p. 470.
- Lane Brothers Company. (See Campbell, George J., assignor.)
- Lane Brothers Company. (See Lane, G., and Campbell, assignors.)
- Lane, Charles J., assignor to C. F. Elwell, London, England. Apparatus for galvanizing or otherwise coating articles. No. 1,392,509; Oct. 4.
- Lane, Charles J., assignor to C. F. Elwell, London, England. Furnace. No. 1,399,970; Dec. 13.
- Lane, Daniel P. (See Stacy, Oliver W., assignor.)
- Lane, Edwin B., West Hoboken, N. J. Electromagnet and valve. No. 1,389,056; Aug. 30; v. 289; p. 849.
- Lane, Edwin B., West Hoboken, N. J. Thermostat. No. 1,392,340; Oct. 4.
- Lane, Elmer E., South Berwick, Me., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-blank-skiving machine. No. 1,382,656; June 28; v. 287; p. 668.
- Lane, George, and G. J. Campbell, assignors to Lane Brothers Company, Poughkeepsie, N. Y. Lifting-jack. No. 1,372,521; Mar. 22; v. 284; p. 694.
- Lane, Jacob, Anchorage, Alaska. Automobile-propelled boat. No. 1,377,892; May 10; v. 286; p. 347.
- Lane, John H., assignor to Peninsular Stove Company, Detroit, Mich. Combination coal and gas range. No. 1,388,653; Aug. 23; v. 289; p. 713.
- Lane, John P. H., Harriman, Tenn. Detachable basket-carrier. No. 1,381,476; June 14; v. 287; p. 270.
- Lane, Leavitt J., assignor to Winchester Repeating Arms Co., New Haven, Conn. Reel-seat. No. 1,367,272; Feb. 1; v. 283; p. 78.



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- Lane, Louis, Habana, Cuba. Casement-window. No. 1,370,325; Mar. 1; v. 284; p. 108.
- Lane, Louis, Habana, Cuba. Louver or slat window. No. 1,380,980; June 7; v. 287; p. 126.
- Lane, Louis, Habana, Cuba. Window. No. 1,392,183; Sept. 27; v. 290; p. 757.
- Lane Manufacturing Company. (See Bates, Edward K., assignor.)
- Lane Manufacturing Company. (See Harvey, Leaman S., assignor.)
- Lane, William E., Clinton, Iowa. Shoe-dauber. No. 1,366,009; Jan. 18; v. 282; p. 463.
- Lane, William J., Denver, Colo. Steering-wheel lock. No. 1,378,244; May 17; v. 286; p. 465.
- Laneville, Albert D., Manchester, N. H. Piston for engines. No. 1,368,167; Feb. 8; v. 283; p. 308.
- Lang, Albert B., St. Louis, Mo. Automobile-locking apparatus. No. 1,382,431; June 21; v. 287; p. 511.
- Lang, Albert E., assignor to Flood Manufacturing Company, Spokane, Wash. Motor-vehicle. No. 1,383,644; July 5; v. 288; p. 80.
- Lang, Alphonse, Cleveland, Ohio. Traveler's kit. No. 1,368,735; Feb. 15; v. 283; p. 468.
- Lang, Arnold, Zurich, assignor to Hausmann A. G. Schweiz, Medizinisch- und Sanitätsgeschäft St. Gallen, St. Gallen, Switzerland. Ankle-joint for artificial legs. No. 1,365,177; Jan. 11; v. 282; p. 262.
- Lang, Charles R., assignor to G. & J. Weir Limited, Glasgow, Scotland. Steam-jet air-ejector. No. 1,372,149; Mar. 22; v. 284; p. 622.
- Lang, Charles R., assignor to G. & J. Weir Limited, Glasgow, Scotland. Air-ejector of steam-condensing plants. No. 1,372,150; Mar. 22; v. 284; p. 623.
- Lang, Charles R., Cathcart, assignor to G. & J. Weir Limited, Glasgow, Scotland. Steam-condensing and feed-water system for steamships. No. 1,377,080; May 3; v. 286; p. 134.
- Lang, Charles R., assignor to G. & J. Weir Limited, Glasgow, Scotland. Feed-water system for steamships. No. 1,392,341; Oct. 4.
- Lang, Charles W., Brooklyn, N. Y. Profiling attachment for milling machines. No. 1,400,961; Dec. 20.
- Lang, Elmer L. (See Lang, George H. and E. L.)
- Lang, Frederick F., Detroit, Mich. Radiator-core. No. 1,394,311; Oct. 18.
- Lang, Frederick H., Columbus, Ohio. Means for extinguishing fires in vessels. No. 1,378,964; May 24; v. 286; p. 676.
- Lang, George H. and E. L., Boston, Mass. Marking-machine. No. 1,398,076; Nov. 22.
- Lang, George H., assignor to Stover-Lang Company, Boston, Mass. Device for producing actuating impulses. No. 1,383,549; July 5; v. 288; p. 60.
- Lang, Gustave J. (See Rosenthal, L. W., and Lang.)
- Lang, Gustave J., Weehawken, N. J., assignor to American Bosch Magneto Corporation, Springfield, Mass. Automatic timing mechanism for oscillating magnetos. No. 1,399,777; Dec. 13.
- Lang, Harry, Chicago, Ill. Radiator-cover. No. 1,372,302; Mar. 22; v. 284; p. 653.
- Lang, Henry T., Fremont, Ohio, assignor to National Carbon Company, Inc. Dry-cell-tamping apparatus. No. 1,396,642; Nov. 8.
- Lang, James S., Boston, Mass. Shock-absorber. No. 1,379,191; May 24; v. 286; p. 718.
- Lang, Johan G. V. (See Greenfield, E. T., and Lang.)
- Lang, John M. (See Rabin, S., and Lang.)
- Lang, Josiah W., Floris, Iowa. Egg-handling device. No. 1,374,457; Apr. 12; v. 285; p. 250.
- Lang, Martin H., assignor to Lang Tractor Company, Minneapolis, Minn. Traction-engine. No. 1,392,421; Oct. 4.
- Lang Tractor Company. (See Lang, Martin H., assignor.)
- Langbert, Ernst G. E., Stockholm, Sweden. Refrigerating apparatus. No. 1,375,396; Apr. 19; v. 285; p. 493.
- Langdon, Nelson M., Mancelona, Mich. Storage-bin. No. 1,376,021; Apr. 26; v. 285; p. 644.
- Langdon, Robert M., Englewood Cliffs, N. J. Chain. No. 1,395,283; Nov. 1.
- Lange, Berthold A., St. Louis, Mo. Apparatus for forming box-corners by creasing. No. 1,390,795; Sept. 13; v. 290; p. 340.
- Lange, David C., College Station, Tex. Portable electric saw. No. 1,380,484; June 7; v. 287; p. 30.
- Lange, Emil, Montreal, Quebec, Canada. Puzzle. No. 1,389,198; Aug. 30; v. 289; p. 877.
- Lange, Leo F., Milwaukee, Wis. Box-opener. No. 1,364,286; Jan. 4; v. 282; p. 47.
- Lange, William, New York, N. Y. Spraying-nozzle. No. 1,390,047; Sept. 6; v. 290; p. 99.
- Lange, William, New York, N. Y. Spraying-nozzle. No. 1,390,048; Sept. 6; v. 290; p. 99.
- Lange, William F., Runge, Tex. Animal-trap. No. 1,376,554; May 3; v. 286; p. 33.
- Langeberg, August R., Dell Rapids, S. D. Shingling straight-edge. No. 1,380,485; June 7; v. 287; p. 31.
- Langer, Gotthold L., assignor to Sticky-Fruit Packaging Machine Company, Portland, Oreg. Packaging-machine. No. 1,389,669; Sept. 6; v. 290; p. 22.
- Langer, Rudolph J., assignor to Franklin Barn Equipment Company, Monticello, Iowa. Basket-handle. No. 1,371,175; Mar. 8; v. 284; p. 315.
- Langfeldt, Einar, Boston, Mass. Paint. No. 1,397,103; Nov. 15.
- Langford, Frank, Eureka, Calif. Production of tannic acid and extracts. No. 1,390,796; Sept. 13; v. 290; p. 340.
- Langford, Martha W. (See Calhoun, Roland F., assignor.)
- Langguth, Joseph O., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vulcanized joint. No. 1,378,040; May 17; v. 286; p. 427.
- Langhard, Johann K., assignor to Fredriksstad Elektrokemiske Fabriker A/S., Fredriksstad, Norway. Manufacture of perborates. No. 1,375,596; Apr. 19; v. 285; p. 531.
- Langhard, Johann K., assignor to Fredriksstad Elektrokemiske Fabriker A/S., Fredriksstad, Norway. Apparatus for the electrolysis of solutions of metal salts. No. 1,379,453; May 24; v. 286; p. 768.
- Langhaus, Morris, New York, N. Y. Drink-mixer. No. 1,392,875; Oct. 4.
- Langhorne, Catherine M., Plainfield, N. J. Garment-hanger. No. 1,369,287; Feb. 22; v. 283; p. 613.
- Langill, Charles L., Everett, Mass. Elevator. No. 1,365,252; Jan. 11; v. 282; p. 270.
- Langieb, Louis, New York, N. Y. Pocketbook and the like. No. 1,390,049; Sept. 6; v. 290; p. 99.
- Langley, Sam G., Maplewood, assignor to New Jersey Patent Company, West Orange, N. J. Controlling device. No. 1,380,486; June 7; v. 287; p. 31.
- Langley, William E. (See Humason, Granville A., assignor.) (Reissue.)
- Langmaid, Samuel P., and L. A. Walton, Seattle, Wash. Spark-trouble locator. No. 1,376,022; Apr. 26; v. 285; p. 645.
- Langmeyer, Arthur, Dover, N. J., assignor to Hercules Powder Company, Wilmington, Del. Explosive powder. No. 1,367,608; Feb. 8; v. 283; p. 201.
- Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Telephone. No. 1,380,981; June 7; v. 287; p. 127.
- Langmuir, Irving, Schenectady, N. Y., assignor to General Electric Company. Method of and means for obtaining high vacua. No. 1,393,550; Oct. 11.
- Langrock, Joseph H., New York, N. Y. Device for attaching covers to cushions. No. 1,374,210; Apr. 12; v. 285; p. 202.
- Langton, Vera F., and J. J. Underwood, New York, N. Y. Print-washing tank. No. 1,386,262; Aug. 2; v. 289; p. 60.
- Langworthy, Martin F., Detroit, Mich. Combined driving and steering axle for motor-driven vehicles. No. 1,373,393; Mar. 29; v. 284; p. 908.
- Lania Navigations-Instrument Aktiebolag. (See Lundmark, Johannes, assignor.)
- Lanier, Amos F., Worcester, Mass., assignor, by mesne assignments, to Hi-Lo-Jack Company, Jack. No. 1,382,733; June 28; v. 287; p. 623.
- Lankford, William J., and W. H. Chappell, Chanute, Kans. Concrete railway-tie. No. 1,384,326; July 12; v. 288; p. 270.
- Lankford, William J., and W. H. Chappell, Chanute, Kans. Concrete railway-tie. No. 1,387,547; Aug. 16; v. 289; p. 438.
- Lankheet, Sander, Hamilton, Mich. Brake. No. 1,397,430; Nov. 15.
- Lannen, Joseph P., Detroit, Mich. Key-seating machine. No. 1,372,886; Mar. 29; v. 284; p. 808.
- Lannert, John A., Cleveland, Ohio. Building block or tile. No. 1,365,705; Jan. 18; v. 282; p. 404.
- Lannert, John A., Cleveland, Ohio. Ignition device. No. 1,377,419; May 10; v. 286; p. 255.
- Lanning, Charles D., et al. (See Field, M. F., Lanning, Hathaway, Blanchard.)
- Lanning, James K. (See Cunniff, Edward A. and J. V., assignors.)
- Lanning, James K., Fall River, Mass. Spinning-ring. No. 1,392,067; Sept. 27; v. 290; p. 734.
- Lansberry, Alda A. (See Penner, J. F., and Lansberry.)
- Lansden, John M., New York, N. Y. Motor-vehicle and axle therefor. No. 1,394,099; Oct. 18.
- Lansden, John M., New York, N. Y. Power control for motor-vehicles. No. 1,397,130; Nov. 15.
- Lansden, John M., New York, N. Y. Brake. No. 1,397,590; Nov. 22.
- Lansing, Martin W. (See Hinsdale, W. E., and Lansing.)
- Langston Monotype Machine Company. (See Chalfant, William E., assignor.)
- Langston Monotype Machine Company. (See Indahl, Mauritz C., assignor.)
- Lant, George W., Providence, assignor to Abrasive Machine Tool Co., East Providence, R. I. Grinding-machine. No. 1,394,418; Oct. 18.
- Lantieri, Frank and G., Newark, N. J. Hair-waving heater. No. 1,379,026; May 24; v. 286; p. 687.
- Lantieri, Frank and G., Newark, N. J. Hair-waving tube. No. 1,379,027; May 24; v. 286; p. 688.
- Lantieri, Frank and G., Jersey City, N. J. Adjustable clamp. No. 1,395,839; Nov. 1.
- Lantieri, Gabriel. (See Lantieri, Frank and G.)



*Alphabetical list of patentees—Continued.*

- Lantz, Ferdinand, Hamburg, Germany. Valved controlling apparatus for outboard ballast and fuel tanks. No. 1,399,263; Dec. 6.
- Lantz, Hugo, New York, N. Y. Brake mechanism. No. 1,389,952; Sept. 6; v. 290; p. 79.
- Lanyon, Samuel H., Oakland, Calif. Jack. No. 1,397,894; Nov. 22.
- Lanz, Arthur, Youngstown, Ohio. Yielding coupling. No. 1,376,774; May 3; v. 286; p. 74.
- Lanzetta, Anthony, New York, N. Y. Aeroplane. No. 1,366,471; Jan. 25; v. 282; p. 598.
- La Paugh, Louie T., assignor of one-fourth to J. W. Shea and one-fourth to E. C. Shea, Utica, N. Y. Frame for nursing-bottles. No. 1,374,667; Apr. 12; v. 285; p. 291.
- La Paugh, Louie T., assignor of one-fourth to J. W. Shea, and one-fourth to E. C. Shea, Utica, N. Y. Nursing-bottle. No. 1,375,917; Apr. 26; v. 285; p. 624.
- Lapeer Tractor Truck Company. (See Winn, Sidney B., assignor.)
- Lapham, Jared S., Northville, Mich., assignor of one-half to J. T. McMahon, Toledo, Ohio. Handle. No. 1,383,826; July 5; v. 288; p. 118.
- Lapinski, Walter A., Wausau, Wis. Cuff-button. No. 1,367,154; Feb. 1; v. 283; p. 54.
- Lapka, Andrzej, and B. Goryl, Simpson, Pa. Trousers stretcher. No. 1,365,253; Jan. 11; v. 282; p. 276.
- Lapointe, Donald H., assignor to The Hartford Special Machinery Company, Hartford, Conn. Chuck. No. 1,370,598; Mar. 8; v. 284; p. 205.
- Lapointe, Francis J., Ann Arbor, Mich. Broaching-machine. No. 1,376,708; May 3; v. 286; p. 62.
- Lapointe, Francis J., Ann Arbor, Mich. Spline-finishing broach. No. 1,376,709; May 3; v. 286; p. 62.
- Lapointe, Francis J., Ann Arbor, Mich. Broaching-machine. No. 1,392,770; Oct. 4.
- La Pointe, Victor E., Hartford, Conn., assignor to F. O. Wells, Greenfield, Mass. Keyway-cutter. No. 1,364,561; Jan. 4; v. 282; p. 99.
- La Pointe, William B., Columbus, assignor to H. E. Vance, Powell, Ohio. Electric fuse. No. 1,398,486; Nov. 29.
- Laporte, Gaspard, Pawtucket, and O. Laporte, Centerville, R. I. Shoemaker's jack. No. 1,384,903; July 19; v. 288; p. 471.
- La Porte, Norbert M., Chicago, Ill., assignor to Sharp & Dohme, Baltimore, Md. Double salt of aluminum and potassium. No. 1,377,081; May 3; v. 286; p. 134.
- Laporte, Octave. (See Laporte, Gaspard and O.)
- Lapp, John C., Newark, and J. A. Haley, Irvington, N. J. Catch for jewelry and the like. No. 1,382,839; June 28; v. 287; p. 642.
- Lapsley, Howard G., Plainfield, N. J. Radiator-cover. No. 1,399,435; Dec. 6.
- Laracy, John R., Dorchester, Mass. Baggage-check. No. 1,401,338; Dec. 27.
- Laraia, Giuseppe C., New York, N. Y. Headrest for barber or like chairs. No. 1,394,913; Oct. 25.
- Lardos, John, Akron, Ohio. Vehicle-wheel tire. No. 1,372,887; Mar. 29; v. 284; p. 808.
- Larduskey, Albert H., Baltimore, Md. Locking device for automobiles. No. 1,387,651; Aug. 16; v. 289; p. 459.
- Lareau, Leo N., Pawtucket, R. I., and O. J. Rainville, South Attleboro, Mass. Bowling-alley resurfacing device. No. 1,378,473; May 17; v. 286; p. 509.
- La Reine Hair Waver and Curler Company Limited. (See Berkovi, Leopold, assignor.)
- Large, George, assignor to Gilson Manufacturing Company, Port Washington, Wis. Fuel-pump for internal-combustion engines. No. 1,393,551; Oct. 11.
- Largen, Fred C., Creighton, Nebr. Ventilator. No. 1,383,469; July 5; v. 288; p. 44.
- Larkin Co. (See Hornung, Charles G., assignor.)
- Larkin, Maurice D. (See Hardy, Clarence L., assignor.)
- Larkin, Paul P., South Charleston, Ohio. Hog-oiling apparatus. No. 1,381,715; June 14; v. 287; p. 316.
- Larkin, Walter, assignor to Fidelity Machine & Manufacturing Co., Philadelphia, Pa. Knitting-machine construction. No. 1,398,865; Nov. 29.
- Larkins, Ernest M., assignor to George Cutter Company, South Bend, Ind. Socket and reflector. No. 1,392,510; Oct. 4.
- Larkins, William B. (See Pape, August H., assignor.)
- Larkworthy, Frederick J., Cleveland, Ohio. Combined water-heater and condenser. No. 1,371,250; Mar. 15; v. 284; p. 392.
- Larkworthy, Frederick W., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Mechanism for steering tractors. No. 1,378,121; May 17; v. 286; p. 442.
- Larner, Chester W., Cleveland, Ohio. Valve. No. 1,370,130; Mar. 1; v. 284; p. 70.
- Larner, Chester W., Philadelphia, Pa. Plunger-valve. No. 1,373,081; Mar. 29; v. 284; p. 846.
- La Roche, Edwin O., Clifton, Ill. Advertising-sign. No. 1,400,081; Dec. 13.
- La Rock, Richard. (See Walker, Leonard, assignor.)
- Larrabee, Emma L., West Palm Beach, Fla. Infant-binder. No. 1,388,867; Aug. 30; v. 289; p. 810.
- Larrimore, George K., Springfield, Ill. Combination-tool. No. 1,373,138; Mar. 29; v. 284; p. 857.
- Larsen, Aage L., Benmore, Utah. Tractor draft connection. No. 1,371,100; Mar. 8; v. 284; p. 301.
- Larsen, Arnold, assignor to The William Gent Vending Machine Company, Cleveland, Ohio. Automatic weighing-machine. No. 1,384,263; July 12; v. 288; p. 257.
- Larsen, Charles E., Chicago, Ill. Marking-machine. No. 1,372,966; Mar. 29; v. 284; p. 824.
- Larsen, Jacob C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Bolster construction for six-wheel trucks. No. 1,380,569; June 7; v. 287; p. 46.
- Larsen, Lauritz H., assignor of forty-nine per cent. to W. W. Watt, Charlotte, N. C. Closet-valve. No. 1,369,344; Feb. 22; v. 283; p. 624.
- Larsen, Lee, Tampico, Mexico. Loose-leaf-spool rotary table. No. 1,366,571; Jan. 25; v. 282; p. 618.
- Larsen, Louis, Brooklyn, assignor to Sundh Electric Company, New York, N. Y. Electromagnet. No. 1,399,350; Dec. 6.
- Larsen, Martin, Silkeborg, Denmark. Emulsifying-machine for continuous run. No. 1,372,172; Mar. 22; v. 284; p. 627.
- Larsen, Max W. (See Klenck, J. H., and Larsen.)
- Larsen, Nils L. (See Johnson, Charles G., assignor.)
- Larsen, Olaf, Stavanger, Norway. Opening device for sheet-metal cans and boxes. No. 1,368,038; Feb. 8; v. 283; p. 283.
- Larsen, Sofus A. E., Copenhagen, Denmark. Bolt with divided case. No. 1,382,096; June 21; v. 287; p. 447.
- Larsen, Sofus A. E., Copenhagen, Denmark. Double tubular lock. No. 1,382,097; June 21; v. 287; p. 447.
- Larsen, Sofus A. E., Copenhagen, Denmark. Cylinder-lock. No. 1,383,128; June 28; v. 287; p. 697.
- Larsen, Sofus A. E., Copenhagen, Denmark. Double tubular lock. No. 1,392,949; Oct. 11.
- Larsen, Stella C., Washington, D. C., assignor of one-half to J. W. Rust, Fairfax, Va. Vacuum-can. No. 1,391,549; Sept. 20; v. 290; p. 556.
- Larsen, William J. (See Koch, J. H., and Larsen.)
- Larson, Alfred, assignor of one-half to G. Ole, Scobey, Mont. Fan-blast regulator. No. 1,388,581; Aug. 23; v. 289; p. 699.
- Larson, Andrew F., Portland, Oreg., assignor to The Gravity-Door Hanger Company. Sliding-door hanger. No. 1,375,915; Apr. 26; v. 285; p. 624.
- Larson, Andrew F., Portland, Oreg., assignor to The Gravity-Door Hanger Company. Sliding-door hanger. No. 1,375,916; Apr. 26; v. 285; p. 624.
- Larson, Arvid G., assignor to Dodge Tool Company, Grinnell, Iowa. Radial engine. No. 1,394,419; Oct. 18.
- Larson, August L., Kellogg, Idaho. Stewart grate construction for sintering-machines. No. 1,373,620; Apr. 5; v. 285; p. 46.
- Larson, Charles O., De Kalb, Ill. Baggage-truck holder. No. 1,381,650; June 14; v. 287; p. 303.
- Larson, Christian H., Guffey, Tex. Vehicle-wheel. No. 1,401,414; Dec. 27.
- Larson, David C. (See Lindquist, D. L., and Larson.)
- Larson, Eaver, Ogden, Utah. Tie-holder. No. 1,371,176; Mar. 8; v. 284; p. 315.
- Larson, Edward, Grand Forks, N. D. Car-door operator. No. 1,399,627; Dec. 6.
- Larson, Erik G., Gottenborg, and J. T. Söderström, Katrineholm, assignors to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Forming the rim members of sheet-metal pulleys. No. 1,366,671; Jan. 25; v. 282; p. 637.
- Larson, George, Minneapolis, Minn. Buckle. No. 1,373,745; Apr. 5; v. 285; p. 70.
- Larson, Harry A., Milford, Utah. Road-drag. No. 1,401,614; Dec. 27.
- Larson, Henry I., Milwaukee, Wis. Synchronizer. No. 1,374,929; Apr. 19; v. 285; p. 403.
- Larson, John A., Glendale, New York, N. Y. Oil-burner. No. 1,378,689; May 17; v. 286; p. 551.
- Larson, John M., Chicago, Ill. Pressure-controlled diaphragm device. No. 1,379,709; May 31; v. 286; p. 890.
- Larson, John M., assignor to National Regulator Company, Chicago, Ill. High-pressure standard regulator. No. 1,376,948; May 3; v. 286; p. 109.
- Larson, John M., assignor to National Regulator Company, Chicago, Ill. Boiler and damper regulator for both steam and hot water. No. 1,387,853; Aug. 16; v. 289; p. 500.
- Larson, John O., Litchfield, Minn. Attachment for extension-tables. No. 1,378,878; May 24; v. 286; p. 659.
- Larson, John V. (See Dies, Charles A., assignor.)
- Larson, Julius N., Dexter, Mich. Log-peeler. No. 1,379,768; May 31; v. 286; p. 901.
- Larson, Lars J., Crosby, Minn. Pistol. No. 1,365,509; Jan. 11; v. 282; p. 326.
- Larson, Lawrence A., West Duluth, Minn. Automobile-signal. No. 1,368,812; Feb. 15; v. 283; p. 483.
- Larson, Leonard M., Tacoma, Wash. Crochet-ball holder. No. 1,386,515; Aug. 2; v. 289; p. 107.
- Larson, Levi L., Los Angeles, Calif. Air-pump. No. 1,398,902; Nov. 29.
- Larson, Louis H., Santiago, Minn. Tile-trench digger. No. 1,369,446; Feb. 22; v. 283; p. 644.
- Larson, Ludwig E., Willow Grove, Pa. Collapsible crate. No. 1,384,616; July 12; v. 288; p. 331.
- Larson, Martin S., assignor to Emerson-Brantingham Company, Rockford, Ill. Clutch. No. 1,371,251; Mar. 15; v. 284; p. 392.



- Larson, Nils G., Attleboro, Mass. Valve-lifter. No. 1,380,654; June 7; v. 287; p. 62.
- Larson, Ole A., and C. J. Lalliss, Salt Lake City, Utah. Radiator-cover. No. 1,401,339; Dec. 27.
- Larson, Raymond G., Owatonna, Minn., and W. F. Horton, Fort Worth, Tex. Trolley-wheel. No. 1,367,913; Feb. 8; v. 283; p. 260.
- Larson, Richard H. (See Wintherlich, Hans J., assignor.)
- Larson, Theodore H., Oshkosh, Wis. Vaginal washer. No. 1,374,458; Apr. 12; v. 285; p. 250.
- Larson, Walter J., Wrangell, Alaska. Halibut-fishing device. No. 1,380,655; June 7; v. 287; p. 63.
- Larson, William, Minneapolis, Minn. Mechanical thermometer. No. 1,383,827; July 5; v. 288; p. 118.
- Larssen, Lars A., Boston, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,105; Aug. 9; v. 289; p. 299.
- Larssen, Lars A., Boston, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,106; Aug. 9; v. 289; p. 300.
- Larsson, Carl H., Seattle, Wash. Scaffold-jack. No. 1,394,178; Oct. 18.
- Larsson Sven, Stockholm, Sweden. Machine, applicable as pump, compressor, or motor. No. 1,367,914; Feb. 8; v. 283; p. 260.
- Larsson, Thure, Worcester, Mass. Reversing mechanism. No. 1,385,966; July 26; v. 288; p. 763.
- Larsson, Thure, assignor to Norton Company, Worcester, Mass. Wheel-trimming machine. No. 1,377,991; May 10; v. 286; p. 365.
- Larter & Sons. (See Larter, Warren R., assignor.)
- Larter, Warren R., assignor to Larter & Sons, Newark, N. J. Separable cuff-button. No. 1,379,192; May 24; v. 286; p. 719.
- Larzelere, Charles F. (See Hodges, W. E., and Larzelere.)
- Lasar, Walter, Fort Wayne, Ind. Aeroplane. No. 1,398,729; Nov. 29.
- Lasarus, George C., assignor of one-half to L. J. Harley, Jr., Springfield, Mass. Revolving toy. No. 1,385,559; July 26; v. 288; p. 682.
- Laska, Lewis L., Cordova, Alaska. Battery-tester. No. 1,388,727; Aug. 23; v. 289; p. 728.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Total-taking means for accounting-machines. No. 1,376,555; May 3; v. 286; p. 33.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Electrically-controlled sorting-machines. No. 1,376,556; May 3; v. 286; p. 33.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Designation-printing means. No. 1,388,271; Aug. 23; v. 289; p. 638.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Transfer or carry-over mechanism. No. 1,391,959; Sept. 27; v. 290; p. 712.
- Laskey, William B., Marblehead, Mass. Machine and method for making candy. No. 1,393,144; Oct. 11.
- Laski, Antony, assignor to The Connecticut Lock Company, Inc., Bridgeport, Conn. Lock. No. 1,384,392; July 12; v. 288; p. 284.
- Laskowski, Edward, Detroit, Mich. Box-opener. No. 1,396,373; Nov. 8.
- Lasky, Anthony, Bridgeport, Conn. Lock. No. 1,375,521; Apr. 19; v. 285; p. 517.
- Lasnier, Arthur L., Bristol, Conn. Spring-tire. No. 1,390,143; Sept. 6; v. 290; p. 118.
- La Societa Anonyme des Grands Moulins de Vilgrain. (See Chopin, Marcel, assignor.)
- La Societe Anonyme Dollfus-Mieg & Cie. (See Gégauff, Charles H., assignor.)
- La Societe des Anciens Etablissements Loy & Aube. (See Bellon, Georges, assignor.)
- La Societe Duten, Doublet & Cie. (See Duten, Maurice, assignor.)
- La Societe Ferdinand Gros et Bouchardy. (See Fride-rich, Louis E., assignor.)
- La Societe Urruty & Cie. (See Urruty, Jean, assignor.)
- La Sor, Herbert G., Los Angeles, Calif. Inking-roll truck. No. 1,380,221; May 31; v. 286; p. 987.
- Lassiter, Columbus K., Richmond, Va., assignor to N. E. Woods, Paterson, N. J. Automatic spacing and punching machine. No. 1,375,302; Apr. 19; v. 285; p. 475.
- Last, Rijkent, Emkhuizen, Netherlands. Machine for making concrete pipes or the like. No. 1,382,202; June 21; v. 287; p. 466.
- Latendorf, Charles B., Bayonne, N. J. Clamp. No. 1,375,849; Apr. 26; v. 285; p. 611.
- Latham, Albert, Beverly, Mass., assignor to American Button & Fastener Co., Augusta, Me. Button. No. 1,388,469; Aug. 23; v. 289; p. 679.
- Latham, Albert, Beverly, Mass., assignor to American Button & Fastener Co., Augusta, Me. Button. No. 1,388,470; Aug. 23; v. 289; p. 679.
- Latham, Albert, Beverly, Mass., assignor to American Button & Fastener Co., Augusta, Me. Button. No. 1,388,471; Aug. 23; v. 289; p. 679.
- Latham, Frank W., Alexandria, Va. Pipe-stopper. No. 1,377,840; May 10; v. 286; p. 336.
- Latham, Jean A., Le Havre, France. Controlling device for airships. No. 1,366,917; Feb. 1; v. 283; p. 7.
- Latham Machinery Company. (See Weber, Henry, assignor.)
- Latham, Minnie M., Fort Worth, Tex., assignor of one-third to A. Wood, Lynnville, Iowa. Washing-machine. No. 1,381,716; June 14; v. 287; p. 317.
- Lathrop, Harold L., assignor to Waterbury Clock Co., Waterbury, Conn. Clock-dial back and mat. No. 1,380,812; June 7; v. 287; p. 94.
- Lathrop, Harry D. (See Clifford, John J., assignor.)
- Lathrop, Harry D. (See McEwan, Charles F., assignor.)
- Lathrop, Harry D. (See Paulson, Walter H., assignor.)
- Lathrop, Harry D., Chicago, Ill. Can-washing machine. No. 1,378,245; May 17; v. 286; p. 460.
- Latimer, John W., Cleveland, Ohio, assignor to Johns-Manville Incorporated. Water-tight pipe-conduit. No. 1,371,632; Mar. 15; v. 284; p. 468.
- Latour, Marius C. A., Paris, France. Electromagnetic apparatus. No. 1,367,915; Feb. 8; v. 283; p. 260.
- Latour, Marius C. A., Paris, France. Amplifying apparatus. No. 1,382,738; June 28; v. 287; p. 624.
- Latshaw, Adam, Dubois, Pa. Direction-indicator for vehicles. No. 1,380,982; June 7; v. 287; p. 127.
- Latshaw, Elmer, assignor to The J. G. Brill Company, Philadelphia, Pa. Car-truck. No. 1,371,695; Mar. 15; v. 284; p. 480.
- Latta, Emmitt G., Syracuse, N. Y. Typewriting-machine. No. 1,382,789; June 28; v. 287; p. 633.
- Latta, Emmitt G., Syracuse, N. Y. Typewriting-machine. No. 1,382,790; June 28; v. 287; p. 634.
- Latta, Emmitt G., Syracuse, N. Y. Typewriting-machine. No. 1,382,791; June 28; v. 287; p. 634.
- Lattanzio, Giovanni, New York, N. Y. Safety-envelop. No. 1,375,968; Apr. 26; v. 285; p. 634.
- Lattimore, Albert E., San Francisco, Calif. Guide and position-grip for sliding vehicle-windows. No. 1,384,904; July 19; v. 288; p. 471.
- Lau, Oliver A., Hamburg, Pa. Lady's undergarment. No. 1,400,825; Dec. 20.
- Lau, Richard. (See Heiby, C. G., Burkam, Lindquist, Riggan, Allen, and Lau.)
- Laub, Henry F., Logan, Utah. Dimmer-switch. No. 1,399,129; Dec. 6.
- Lauda, Joseph F., assignor of one-fifth to Scott Player Action Co., Racine, Wis., and four-fifths to The Northern Trust Company, trustee, Chicago, Ill. Player-piano-roll centralizer. No. 1,397,255; Nov. 15.
- Laufet, Charles, Paris, France. Apparatus for hammering piston-rings. No. 1,377,967; May 10; v. 286; p. 361.
- Laughery, Mrs. E. A. (See Schults, Edward, assignor.)
- Laughlin, Elmyr A., Oregon, Ill. Vehicle-body bearing. No. 1,396,687; Nov. 8.
- Laughlin, Elmyr A., Oregon, Ill. Vehicle-body bearing. No. 1,396,688; Nov. 8.
- Laughlin, Elmyr A., Oregon, Ill. Vehicle-body bearing. No. 1,396,689; Nov. 8.
- Laughlin, George F., Chicago, Ill. Brine-retaining valve for refrigerator-car tanks. No. 1,364,506; Jan. 4; v. 282; p. 89.
- Laughton, Dugal C., assignor of one-half to J. H. Parker, Haverhill, Mass. Box-cover-stacking machine. No. 1,364,562; Jan. 4; v. 282; p. 99.
- Laumeister, Charles E., Dawson, Yukon Territory, Canada. Stove. No. 1,371,910; Mar. 15; v. 284; p. 521.
- Launay, Auguste J. H., Paris, France. Penholder. No. 1,367,880; Feb. 8; v. 283; p. 254.
- Lauder, J. A., & Company, Limited. (See Launder, John A., assignor.)
- Lauder, John A., assignor to J. A. Launder & Company Limited, Newcastle-upon-Tyne, England. Means for supporting garment-hangers. No. 1,390,144; Sept. 6; v. 290; p. 118.
- Laupot, Louis. (See Robertson, C., and Laupot.)
- Laupretre, Claude, Nantes, France, assignor of one-half to Société Anonyme des Ateliers et Chantiers de la Loire, Paris, France. Ship's porthole, scuttle, and the like. No. 1,392,771; Oct. 4.
- Laurel Motors Corporation. (See Roof, Robert M., assignor.)
- Laurell, John, assignor to I. Lewis Cigar Manufacturing Co., Newark, N. J. Tobacco stripping and booking machine. No. 1,380,813; June 7; v. 287; p. 94.
- Lauren, John W., Dixon, Ill. Wire-drawing machine. No. 1,377,206; May 10; v. 286; p. 213.
- Laurencich, Arthur, Washington, D. C. Graphophone. No. 1,364,201; Jan. 4; v. 282; p. 30.
- Lauri, Valno, Seattle, Wash. Drafting-table. No. 1,381,477; June 14; v. 287; p. 270.
- Laurick, Carl, Berlin, Germany. Mixing, kneading, and the like machine. No. 1,393,799; Oct. 18.
- Laurie, Alexander, Carroll, Nebr. Guard-shoe for mowers. No. 1,391,128; Sept. 20; v. 290; p. 470.
- Lauritsen, Charles C. (See Mastenbrook, H. J., and Lauritsen.)
- Lauritsen, Charles C., assignor to The Ohio Body & Blower Company, Cleveland, Ohio. Valve. No. 1,397,591; Nov. 22.
- Laussacq, Henri P. L., assignor to H. Lippincott and A. J. Major, as receivers of Camden Iron Works, Camden, N. J. Quick-return slack-water system. No. 1,381,315; June 14; v. 287; p. 240.
- Lautenschlager, William F., Cincinnati, Ohio, assignor to L. Muther, Newton, Mass. Folding-machine. No. 1,399,264; Dec. 6.



*Alphabetical list of patentees—Continued.*

- Lauterbur, Frank X., Sidney, Ohio. Dough-molding machine. No. 1,366,266; Jan. 18; v. 282; p. 514.
- Lauth, Clarence H., Islington, London, England. Electric oven for cooking purposes. No. 1,380,656; June 7; v. 287; p. 63.
- Lauth, Clarence H., London, England. Electric cooking or heating vessel and apparatus. No. 1,398,866; Nov. 29.
- Lauth, Clarence H., London, England. Electric cooking or heating vessel and apparatus. No. 1,398,867; Nov. 29.
- Lauth, Clarence H., London, England. Electrically-heated liquid-heater. No. 1,398,903; Nov. 29.
- Lautner, Edward, Lamar, Ind. Freight-car door. No. 1,371,495; Mar. 15; v. 284; p. 442.
- Laux, Peter, Chicago, Ill. Bag-closure. No. 1,367,485; Feb. 1; v. 283; p. 120.
- L'Auxiliaire des Chemins de Fer et L'Industrie. (See Fiedler, Sebastian, O. A., assignor.)
- Lauzon, Duffa B., Grand Rapids, Minn. Automobile-door latch. No. 1,394,681; Oct. 25.
- Lava Crucible Company of Pittsburgh. (See De Bats, Jean H. L., assignor.)
- Lavagetto, Joseph T. L., Portland, Oreg. Wooden ship construction. No. 1,390,912; Sept. 13; v. 290; p. 364.
- Laval, Louis, Kansas City, Mo. Game. No. 1,380,154; May 31; v. 286; p. 975.
- Lavalle, Cyril, Webster, Mass. Shuttle-box for looms. No. 1,376,949; May 3; v. 286; p. 109.
- La Valle, Frank D., New York, N. Y. Garment-fastener. No. 1,383,129; June 28; v. 287; p. 697.
- Lavallee, Joseph O. W., assignor to Caron Brothers, Montreal, Quebec, Canada. Internal-combustion engine. No. 1,377,356; May 10; v. 286; p. 244.
- La Veck, Louis, assignor to P. H. Horwitt and himself, Brooklyn, N. Y. Paper-catcher. No. 1,387,602; Aug. 16; v. 289; p. 449.
- Lavers, Charles W., assignor of one-half to F. P. Ronnan, Halifax, Nova Scotia, Canada. Repair-jack. No. 1,372,758; Mar. 29; v. 284; p. 781.
- Lavers, Henry. (See Paul, C., and Lavers.)
- Lavery, John V. (See Burns, Bartholomew P., assignor.)
- Lavezzl, Samuel J., Chicago, Ill. Corner-block for bedsteads. No. 1,375,850; Apr. 26; v. 285; p. 611.
- Lavigne, Jean F., Danville, Pa. Sound-operated electric signal. No. 1,368,736; Feb. 15; v. 283; p. 468.
- Lavigne, Joseph P. (See Murnane, D. J., and Lavigne.)
- Lavigne, Moses, Holyoke, Mass. Molding and metal fastener for sashes and window-panes. No. 1,389,057; Aug. 30; v. 289; p. 849.
- La Vigneur, Camille J., Beaumont, Mass. Paper-rulingpen underlift. No. 1,383,314; July 5; v. 288; p. 11.
- Lavington, George L., East Ham, assignor of one-half to A. Willis, Winchmore Hill, England. Life-saving guard for steam and motor road vehicles. No. 1,386,938; Aug. 9; v. 289; p. 266.
- Lavoie, Alphonse J., Montreal, Quebec, Canada. Clutch and brake mechanism. No. 1,395,840; Nov. 1.
- Lavoie, Alphonse J., Montreal, Quebec, Canada. Clutch and brake mechanism. No. 1,395,841; Nov. 1.
- Lavoie, Alphonse J., Montreal, Quebec, Canada. Cutter-boring arm. No. 1,399,971; Dec. 13.
- Lavoie, Emery G., Greenwich, Conn. Robe-holder. No. 1,383,730; July 5; v. 288; p. 98.
- La Voie, Emery G., Greenwich, Conn. Spark-plug cleaner. No. 1,387,414; Aug. 9; v. 289; p. 360.
- Lavoie, Joseph, Montreal, Quebec, Canada. Electric heater. No. 1,397,872; Nov. 22.
- Lavoie, Zenon A., Manchester, N. H. Wheel-chain-tightening tool. No. 1,386,413; Aug. 2; v. 289; p. 89.
- Law, Alexander H. (See Parsons, C. A., and Law.)
- Law, George, York, Pa. Open-hearth-furnace door and frame. No. 1,391,196; Sept. 20; v. 290; p. 483.
- Law, George, York, Pa. Open-hearth-furnace door and frame. No. 1,391,197; Sept. 20; v. 290; p. 484.
- Law, James C., Binghamton, N. Y. Single-bar heavy-duty chain. No. 1,366,126; Jan. 18; v. 282; p. 486.
- Law, James C., Scranton, assignor to Wilmot Engineering Company, Hazleton, Pa. Separable-link chain. No. 1,397,131; Nov. 15.
- Law, John, assignor to B. H. Kelly, Portland, Oreg. Direction-signal for automobiles. No. 1,376,710; May 3; v. 286; p. 62.
- Law, Leroy M. (See Draney, J. R., and Law.)
- Law, Leroy M., Baltimore, Md., assignor to The United States Asphalt Refining Co., New York, N. Y. Penetration-determining device for asphalt. No. 1,366,572; Jan. 25; v. 282; p. 618.
- Law, Ralph G. (See Hill, R. R., and Law.)
- Law, Thomas B. (See Belknap, William H., assignor.)
- Law, William E., assignor of one-half to W. D. Gash, Philadelphia, and one-half to G. M. Stull, Chester, Pa. Draft appliance for tractors. No. 1,377,839; May 10; v. 286; p. 336.
- Lawler, George, Auckland, New Zealand. Heel-grip for shoes. No. 1,390,568; Sept. 13; v. 290; p. 294.
- Lawler, James T. (See Smith, Hunter, Jr., assignor.)
- Lawlor, F. J. (See Cator, Richard G., assignor.)
- Lawlor, Simeon C., Chicago, Ill. Mop-wringer. No. 1,378,879; May 24; v. 286; p. 660.
- Lawlor, William T., Jersey City, N. J. Railway-switch beater. No. 1,401,798; Dec. 27.
- Lawrence, Charles L., Bayshore, N. Y. Big-end construction for radial motors. No. 1,398,194; Nov. 22.
- Lawrence, Austin M., Montague, Mass. Hacksaw-blade. No. 1,369,178; Feb. 22; v. 283; p. 592.
- Lawrence, Austin M., Montague, Mass. Hacksaw-blade. No. 1,381,478; June 14; v. 278; p. 270.
- Lawrence, Charles A. (See McCorkindale, William P., assignor.)
- Lawrence Duck Company. (See Aitken, Leonard, assignor.)
- Lawrence, Edward E., Jamaica, assignor to Loose-Wiles Biscuit Company, Long Island City, N. Y. Receptacle filling and closing apparatus. No. 1,365,415; Jan. 11; v. 282; p. 308.
- Lawrence, Edward E., Jamaica, and K. D. Loose, New York, assignors to Loose-Wiles Biscuit Company, New York, N. Y. Pneumatic mechanism for conveying and stacking food products. No. 1,377,136; May 3; v. 286; p. 144.
- Lawrence, Edward V., New York, N. Y. Brake for trailers. No. 1,370,131; Mar. 1; v. 284; p. 71.
- Lawrence, Frederick K., Chicago, Ill. Tire-rack. No. 1,364,442; Jan. 4; v. 282; p. 77.
- Lawrence, Frederick K., Chicago, Ill. Turning-tool. No. 1,395,436; Nov. 1.
- Lawrence, Frederick K., Chicago, Ill. Wrench. No. 1,401,615; Dec. 27.
- Lawrence, George, Adelaide, assignor to W. Usher, Norwood, South Australia, Australia. Butter-cooler. No. 1,375,397; Apr. 19; v. 285; p. 493.
- Lawrence & Hill. (See Dawson, Fred, assignor.)
- Lawrence, Jay F., Chicago, Ill. Hydrocarbon-burner. No. 1,396,854; Nov. 15.
- Lawrence, Jay M., St. Paul, Minn. Cooking-receptacle. No. 1,385,459; July 26; v. 288; p. 661.
- Lawrence, John D., assignor to Dura Mechanical Hardware Company, Toledo, Ohio. Counterbalance mechanism for vehicle-windows. No. 1,397,256; Nov. 15.
- Lawrence, Melvin G., Revere, Mass. Fishhook-holder. No. 1,365,111; Jan. 11; v. 282; p. 249.
- Lawrence, Melvin G., Revere, Mass. Thumb-tack. No. 1,392,950; Oct. 11.
- Lawrence, Nealy S. (See Lawrence, Walter M., O. B., and N. S.)
- Lawrence, Oscar A., San Francisco, Calif. Pressure-bar. No. 1,383,645; July 5; v. 288; p. 80.
- Lawrence, Oscar A., San Francisco, Calif. Door-buffer. No. 1,394,420; Oct. 18.
- Lawrence, Oscar B. (See Lawrence, Walter M., O. B., and N. S.)
- Lawrence Paper Manufacturing Company. (See Peck, Arthur S., assignor.)
- Lawrence, Rena S., San Francisco, Calif. Wheel-lock. No. 1,386,414; Aug. 2; v. 289; p. 89.
- Lawrence, Richard N., assignor of one-half to B. Ibach, Eldora, Iowa. Automobile-lock. No. 1,392,772; Oct. 4.
- Lawrence, Walter F., assignor to Raymond Bag Company, Middletown, Ohio. Shopping-bag. No. 1,379,829; May 31; v. 286; p. 913.
- Lawrence, Walter M., O. B., and N. S., Birmingham, Ala. Dirigible headlight. No. 1,380,657; June 7; v. 287; p. 63.
- Lawrence, William, Harcourt, Iowa. End-gate. No. 1,394,198; Oct. 18.
- Lawrence, William, Chicago, Ill. Auxiliary starter-control device. No. 1,397,690; Nov. 22.
- Lawrence, William A., East Orange, assignor to Standard Metal Mfg. Co., Newark, N. J. Motorcycle-backrest. No. 1,367,981; Feb. 8; v. 283; p. 273.
- Lawrence, William H., Akron, Ohio. Door-holder. No. 1,388,272; Aug. 23; v. 289; p. 639.
- Lawrence, William J., Grenada, British West Indies. Collapsible barrel. No. 1,371,177; Mar. 8; v. 284; p. 315.
- Lawes, Charles A. (See Hodes, Edward B., assignor.)
- Lawry, Raymond G., assignor to Roberts & Schaefer Company, Chicago, Ill. Combined screen and picking-table. No. 1,381,204; June 14; v. 287; p. 221.
- Laws, Edward, assignor to The Gustave-Fox Company, Cincinnati, Ohio. Device for attaching name-plates and the like. No. 1,371,696; Mar. 15; v. 284; p. 481.
- Laws, Edward H., assignor to The Gustave Fox Company, Cincinnati, Ohio. Plate-attaching means. No. 1,394,029; Oct. 18.
- Lawson, Aubrey J., New York, N. Y. Automatic rocking-cradle. No. 1,374,507; Apr. 12; v. 285; p. 259.
- Lawson, Charles S., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, Gage. No. 1,386,006; Aug. 2; v. 289; p. 8.
- Lawson, Clarence J., Yonkers, assignor to A. Calleson, Brooklyn, N. Y. Bottle-sealing machine. No. 1,369,034; Feb. 22; v. 283; p. 564.
- Lawson, Davenport, assignor to Goodyear Redwood Co., Elk, Calif. Logging apparatus. No. 1,394,745; Oct. 25.
- Lawson, Frank E., San Francisco, Calif. Window-sill. No. 1,368,444; Feb. 15; v. 283; p. 410.
- Lawson, John, Manito, Ill. Lockable steering-wheel for motor-vehicles. No. 1,383,550; July 5; v. 288; p. 60.
- Lawson, John, assignor to Hemphill Company, Central Falls, R. I. Circular glove-knitting machine. No. 1,401,712; Dec. 27.
- Lawson Manufacturing Company. (See Katzenberger, Oscar, assignor.)
- Lawson, Neal, Santa Barbara, Calif. Vehicle-light. No. 1,382,203; June 21; v. 287; p. 467.



*Alphabetical list of patentees—Continued.*

- Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-nail-reclaiming machine. No. 1,376,557; May 3; v. 286; p. 33.
- Lawson, Samuel, Croton-on-Hudson, N. Y. Gas-engine. No. 1,367,320; Feb. 1; v. 283; p. 87.
- Lawton, Eugene W. (See Trolle, Louis, assignor.)
- Lawton, Peter S., New Orleans, La. Dry-dock. No. 1,376,345; Apr. 26; v. 285; p. 706.
- Lawton, Thomas C., Philadelphia, Pa. Picket-stick for looms. No. 1,372,438; Mar. 22; v. 284; p. 678.
- Lay, Oscar H., Seattle, Wash. Wrench. No. 1,399,265; Dec. 6.
- Laycock, Arthur M., Fortyfort, Pa. Universal joint. No. 1,373,082; Mar. 29; v. 284; p. 846.
- Laycock, Arthur M., Fortyfort, Pa. Universal joint. No. 1,392,342; Oct. 4.
- Layden, John H., Minneapolis, Minn. Tire-tool. No. 1,370,132; Mar. 1; v. 284; p. 71.
- Layman, Alfred C. (See Baumann, Joseph G., assignor.)
- Layman, Hebron B., New York, N. Y. Machine for broaching, burnishing, and the like. No. 1,369,821; Mar. 1; v. 284; p. 13.
- Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting-rod. No. 1,373,083; Mar. 29; v. 284; p. 846.
- Layman, Hebron B., assignor to the Layman Pressed Rod Company, Inc., New York, N. Y. Making connecting-rods. No. 1,378,690; May 17; v. 286; p. 551.
- Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting-rod. No. 1,380,658; June 7; v. 287; p. 63.
- Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Link, lever, and the like. No. 1,380,659; June 7; v. 287; p. 63.
- Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting-rod. No. 1,387,277; Aug. 9; v. 289; p. 331.
- Layman, Hebron B., New York, N. Y., assignor to Never skid Manufacturing Co., Incorporated. Non-skid and traction chain. No. 1,397,529; Nov. 22.
- Layman Pressed Rod Company, The. (See Layman, Hebron B., assignor.)
- Layne, Mahlon E. (See Hall, Samuel N., assignor.)
- Layne, Mahlon E., Memphis, Tenn. Well-screen. No. 1,366,087; Jan. 18; v. 282; p. 479.
- Layne, Mahlon E., Memphis, Tenn. Well-screen and making the same. No. 1,367,609; Feb. 8; v. 283; p. 202.
- Layne, Mahlon E., Memphis, Tenn. Apparatus for separating and collecting fluids in wells. No. 1,382,295; June 21; v. 287; p. 485.
- Lazar, William T., Appleton, Wis. Paper-interfolding machine. No. 1,372,173; Mar. 22; v. 284; p. 627.
- Lazarus, David, New York, N. Y. Adjustable rim. No. 1,374,930; Apr. 19; v. 285; p. 403.
- Lazarus, Isaac, assignor to Perlantino, O. Ce. Pe. G. m. b. H., Berlin, Germany. Projection-screen. No. 1,399,566; Dec. 6.
- Lazarus, M., New York, N. Y., and W. B. Davies, Bridgeport, Conn., assignors of one-fourth to G. Mendelsohn, Brooklyn, N. Y., and one-fourth to M. Trace, Bridgeport, Conn. Plate-printing press. No. 1,389,251; Aug. 30; v. 289; p. 887.
- Lazeur, Leroy C., Chicago, Ill. Steering-wheel. No. 1,377,420; May 10; v. 286; p. 256.
- Lazenby, William R., Hardin, Mont. Trap. No. 1,389,884; Sept. 6; v. 290; p. 66.
- Lazenby, William R., Hardin, Mont. Trapper's tool. No. 1,395,122; Oct. 25.
- Lazenby, William R., assignor of one-half to F. Clark, Hardin, Mont. Trap-anchor. No. 1,368,813; Feb. 15; v. 283; p. 482.
- Lazenby, William R., assignor of one-half to F. Clark, Hardin, Mont. Trapper's tool. No. 1,369,750; Feb. 22; v. 283; p. 704.
- Lea, Charles. (See Hathaway, E. F., and Lea.)
- Lea, Charles, Boston, Mass., assignor, by mesne assignments, to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Pattern or color indicating mechanism for chenille or other machines. No. 1,373,514; Apr. 5; v. 285; p. 27.
- Lea, Charles, assignor to American Warp Drawing Machine Company, Boston, Mass. Means for splicing thread ends. No. 1,383,130; June 28; v. 287; p. 697.
- Lea, Charles, assignor to American Warp Drawing Machine Company, Boston, Mass. Reed for spacing warp-threads. No. 1,394,431; Oct. 18.
- Lea, Charles W., Toronto, Ontario, Canada. Hoe-handle. No. 1,390,797; Sept. 13; v. 290; p. 340.
- Lea, John M., assignor to General Motors Corporation, Detroit, Mich. Transmission-lock. No. 1,396,855; Nov. 15.
- Lea, Robert B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Oil-cooler. No. 1,367,881; Feb. 8; v. 283; p. 255.
- Lench, Horace J., Mount Carmel, Ill. Toy vehicle. No. 1,395,842; Nov. 1.
- Leach, John J., Indian Orchard, Mass. Gate-valve. No. 1,365,254; Jan. 11; v. 282; p. 277.
- Lench, Joseph S., Brooklyn, N. Y. Massage apparatus for improving the hearing. No. 1,365,416; Jan. 11; v. 282; p. 308.
- Leach, Vivian A., San Francisco, Calif. Coin receiving and delivering device. No. 1,391,840; Sept. 27; v. 290; p. 687.
- Leach, William, Moose Jaw, Saskatchewan, Canada. Train-stopping device. No. 1,391,328; Sept. 20; v. 290; p. 511.
- Leachman, Edward C., Bayswater, London, England. Advertising device. No. 1,366,322; Jan. 13; v. 282; p. 524.
- Leader, Harold T. (See West, F. J., Jackson, and Leader.)
- Leader Iron Works. (See Shorb, William A., assignor.)
- Leadizing Company. (See Shoemaker, Robert J., assignor.)
- Leaf, Max, Youngstown, Ohio. Bed-clamp. No. 1,392,581; Oct. 4.
- Leaf, Roy V., Louisville, Ky. Direction-indicator. No. 1,372,967; Mar. 29; v. 284; p. 824.
- Leager, Ira T., Ridgely, Md. Commutator. No. 1,371,697; Mar. 15; v. 284; p. 481.
- Leahy, Albert M. (See Reid, J., and Leahy.)
- Leahy, Bernard, Woodside, N. Y. Clothes-drier for hot-water boilers. No. 1,399,721; Dec. 6.
- Leahy, Dora A., administratrix. (See Townley, W. R., and Leahy.)
- Leahy, Frank E. (See Diehl, A. N., and Leahy.)
- Leahy, Herbert V. (See La Fehr, F. E., Hitchcock, and Leahy.)
- Leahy, Herbert V., Los Angeles, Calif. Furnace. No. 1,390,798; Sept. 13; v. 290; p. 340.
- Leahy, James L., Providence, R. I. Safety-razor. No. 1,370,133; Mar. 1; v. 284; p. 71.
- Leahy, Michael J., Philadelphia, Pa. Window-ventilator. No. 1,388,050; Aug. 16; v. 289; p. 537.
- Leahy, Patrick H. (See Townley, W. R., and Leahy.)
- Leahy, William, New York, N. Y. Casting. No. 1,386,516; Aug. 2; v. 289; p. 108.
- Leahy, William A., Imogene, Iowa. Valve-spring holder. No. 1,384,472; July 12; v. 288; p. 301.
- Leake, Hunter C., et al. (See Gilthorpe, Stanley C., assignor.)
- Leake, Richard C., assignor to General Railway Signal Company, Rochester, N. Y. Protective device. No. 1,380,300; May 31; v. 286; p. 1002.
- Leake, Richard C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Time-release mechanism. No. 1,384,533; July 12; v. 288; p. 313.
- Leakproof Radiator Co. (See Bark, Otto, assignor.)
- Leaming, Thomas H., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Disazo dye. No. 1,365,040; Jan. 11; v. 282; p. 236.
- Leaming, Thomas H., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Azo dye. No. 1,372,439; Mar. 22; v. 284; p. 678.
- Leard, Denton, Summerside, Prince Edward Island, Canada. Light-extinguisher. No. 1,397,873; Nov. 22.
- Learmont, William H., Yale, Mich. Vehicle-signal. No. 1,398,641; Nov. 29.
- Leary, John S., North Cambridge, Mass. Clasp for hose-supporters. No. 1,394,199; Oct. 18.
- Leas, Frederick A., Manila, P. I. Flow-beam. No. 1,372,357; Mar. 22; v. 284; p. 663.
- Leas, Frederick A., Manila, Philippine Islands. Rice rake or harrow. No. 1,390,208; Sept. 6; v. 290; p. 130.
- Leasman, Frank B., Madison, Minn. Gate. No. 1,365,179; Jan. 11; v. 282; p. 262.
- Leathers, Lou E., Weed, Calif. Resilient wheel. No. 1,383,829; July 5; v. 288; p. 119.
- Leaver, James M., Jr., Oakland, Calif. Automatic bundling and tying machine. (Reissue.) No. 15,111; May 24; v. 286; p. 797.
- Leavitt, Henry E., Berkeley, Calif. Cooling apparatus. No. 1,393,226; Oct. 11.
- Leavitt, James A., Hermosa Beach, Calif. Low-water alarm for steam-boilers. No. 1,364,287; Jan. 4; v. 282; p. 47.
- Leavitt, James Q., assignor of one-half to H. L. Herrington, Ogden, Utah. Labeling-machine. No. 1,388,728; Aug. 23; v. 289; p. 728.
- Leavitt, James Q., assignor of one-half to H. L. Herrington, Ogden, Utah. Label-feed device. No. 1,394,432; Oct. 18.
- Leavitt, John E., Boston, Mass. Tractor. No. 1,386,064; Aug. 2; v. 289; p. 21.
- Le Bar, William D. (See Cranston, J., and Le Bar.)
- Le Baron, Leonard, and A. C. Harrell, Pensacola, Fla. Magneto-electric machine. No. 1,367,486; Feb. 1; v. 283; p. 120.
- Leberecht, Frederick W., New York, N. Y. Sewing-machine attachment. No. 1,382,098; June 21; v. 287; p. 444.
- Le Blanc, Alexis, assignor to The Composite Metal Lath Company, New York, N. Y. Weaving mechanism. No. 1,379,193; May 24; v. 286; p. 719.
- Le Blanc, Alexis, assignor to Composite Metal Lath Company, New York, N. Y. Loom. No. 1,379,194; May 24; v. 286; p. 719.
- Leblanc, Ferdinand L., Paris, France. Fuse-plug for grenades. No. 1,371,034; Mar. 8; v. 284; p. 288.
- Leblanc, Thomas, West Gardner, Mass. Hub-cap. No. 1,378,691; May 17; v. 286; p. 551.
- Le Blond, R. K., Machine Tool Company, The. (See Groene, William F., assignor.)
- Le Bras, Louis, assignor to Vaco Manufacturing Corporation, New York, N. Y. Vacuum-regulator machine. No. 1,384,724; July 12; v. 288; p. 354.
- Le Cain, John A., Malden, Mass. Internal valve-gear for steam engines. No. 1,390,625; Sept. 13; v. 290; p. 307.



*Alphabetical list of patentees—Continued.*

- Leechat, Edmond, Nantes, France. Apparatus for the manufacture of bricks or building-blocks. No. 1,383,131; June 28; v. 287; p. 698.
- Leckie, Herbert V., Stratford, Conn., assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Cartridge-necking press. No. 1,367,191; Feb. 1; v. 283; p. 61.
- Lecky, William P., Richmond, Va. Educational appliance. No. 1,367,192; Feb. 1; v. 283; p. 61.
- Leclair, Alexandre, Montreal, Quebec, Canada. Train-line coupling. No. 1,366,337; Jan. 18; v. 282; p. 527.
- Le Clair, Frank J., Attleboro, assignor to Freeman-Daugbady Company, Charley, Mass. Collar-holder. No. 1,387,497; Aug. 16; v. 289; p. 428.
- Le Clair, Frank J., Attleboro, assignor to Freeman-Daugbady Company, Charley, Mass. Holder for collars. No. 1,392,582; Oct. 4.
- Le Cocq, Frank and L., Aberdeen, S. D. Sand, gravel, and stone cleaning machine. No. 1,395,717; Nov. 1.
- Le Cocq, Irwin. (See Le Cocq, Frank and L.)
- Le Compte, Edward P., Park City, Utah. Clothes-drying apparatus. No. 1,371,563; Mar. 15; v. 284; p. 455.
- Le Compte, Edward P., Park City, Utah. Auxiliary steering means for automobile steering-posts. No. 1,371,911; Mar. 15; v. 284; p. 521.
- Le Compte, Edward P., Park City, Utah. Means for operating the steering posts of automobiles. No. 1,388,582; Aug. 23; v. 289; p. 700.
- Lecomte, Albert, Thiais, France. Grinding-machine. No. 1,389,835; Sept. 6; v. 290; p. 56.
- Lecoutre, Ernst, assignor to Compagnie Generale D'Electricite, Paris, France. Automatic machine for blowing glass. No. 1,401,713; Dec. 27.
- Lecoutre, Auguste J., assignor to Royal Worcester Corset Co., Worcester, Mass. Corset and the like and fastening system therefor. No. 1,381,651; June 14; v. 287; p. 303.
- Lecoutre, Auguste J., assignor to Royal Worcester Corset Company, Worcester, Mass. Corset. No. 1,384,137; July 12; v. 288; p. 232.
- Lecoutre, Auguste J., assignor to Royal Worcester Corset Co., Worcester, Mass. Front steels on corsets. No. 1,391,393; Sept. 20; v. 290; p. 524.
- Le Crow, John W. (See Cazel, C. E., and Le Crow.)
- Le Crone, Byron K., Effingham, Ill. Mold for typographical machine. No. 1,372,440; Mar. 22; v. 284; p. 679.
- Ledbetter, Thomas F., Columbus, Ga. Drive mechanism. No. 1,397,219; Nov. 15.
- Leddell, William A., assignor to The Mine and Smelter Supply Company, Denver, Colo. Making grate-bars. No. 1,398,492; Nov. 29.
- Leddell, William A., assignor to The Mine and Smelter Supply Company, Denver, Colo. Reducing-body. No. 1,398,970; Dec. 6.
- Lederer, Carl F., assignor to G. Willard Rich, trustee, Rochester, N. Y. Making animated-cartoon motion-picture films. No. 1,375,918; Apr. 26; v. 285; p. 644.
- Lederer, Herbert H., Cleveland, Ohio. Cuff. No. 1,387,854; Aug. 16; v. 289; p. 500.
- Lederie, Anton. (See Baumann, Gustav, assignor.)
- Lederman, George. (See Anthony, M. O., and Lederman.)
- Ledgers Limited. (See Myatt, John W., assignor.)
- Ledig, Richard G., assignor to A. Mecky Company, Philadelphia, Pa. Guard for electric heaters. No. 1,377,492; May 10; v. 286; p. 270.
- Ledig, Richard G., assignor to A. Mecky Company, Philadelphia, Pa. Electric heater. No. 1,391,960; Sept. 27; v. 290; p. 712.
- Lednum, Edmund T., Denver, Colo., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Concentrator-table. No. 1,385,693; July 26; v. 288; p. 710.
- Ledoux, John W., Swarthmore, Pa. Integrating mechanism. No. 1,374,508; Apr. 12; v. 285; p. 260.
- Leduc, Joseph, and N. Gobeille, St. Hyacinthe, Quebec, Canada. Gas heating apparatus. No. 1,393,227; Oct. 11.
- Leduc, Joseph E., Montreal, Quebec, Canada. Sanitary mask. No. 1,377,710; May 10; v. 286; p. 310.
- Ledwinka, Joseph, Philadelphia, Pa. Sheet-metal can. No. 1,370,134; Mar. 1; v. 284; p. 71.
- Ledwinka, Joseph, assignor, by mesne assignments, to Budd Wheel Corporation, Philadelphia, Pa. Pressed-steel wheels. No. 1,371,382; Mar. 15; v. 284; p. 419.
- Ledwinka, Joseph, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company. Hammering-machine. No. 1,385,011; July 19; v. 288; p. 494.
- Ledyard, Elisha G., Sioux Falls, S. D. Revolving-bottom dump-wagon. No. 1,386,263; Aug. 2; v. 289; p. 60.
- Lee, Albert J. F., Montreal, Canada. Immersible salvage vessel. No. 1,388,729; Aug. 23; v. 289; p. 728.
- Lee, Albert P., assignor to Lee Loader & Body Co., Chicago, Ill. Drawbar. No. 1,364,563; Jan. 4; v. 282; p. 99.
- Lee, Albert P., assignor to Lee Loader & Body Company, Chicago, Ill. Convertible trailer. No. 1,376,443; May 3; v. 283; p. 13.
- Lee, Albert P., assignor to Lee Loader & Body Company, Chicago, Ill. Monorail railway. No. 1,376,444; May 3; v. 286; p. 13.
- Lee, Albert P., assignor to Lee Trailer & Body Company, Chicago, Ill. Brake-operating mechanism. No. 1,384,073; July 12; v. 288; p. 218.
- Lee, Albert P., assignor to Lee Trailer & Body Company, Chicago, Ill. Rail construction for rolling hoppers. No. 1,384,905; July 19; v. 288; p. 471.
- Lee, Albert P., assignor to Lee Trailer & Body Co., Chicago, Ill. Semitrailer. No. 1,385,177; July 19; v. 288; p. 529.
- Lee, Albert P., assignor to Lee Trailer & Body Company, Chicago, Ill. Drawbar mechanism. No. 1,390,451; Sept. 13; v. 290; p. 270.
- Lee, Benjamin and S. H., Sankey, England. Temporary or permanent support for vehicle solid band-tires. No. 1,385,920; July 26; v. 288; p. 754.
- Lee, Brownell H., St. Paul, Minn. Shipping-receptacle. No. 1,365,834; Jan. 18; v. 282; p. 429.
- Lee, Charles G. (See Wilson, C. H., and Lee.)
- Lee, Charles L., assignor to The National Cash Register Company, Dayton, Ohio. Ticket-printing mechanism. No. 1,391,129; Sept. 20; v. 290; p. 470.
- Lee, Corliss E., Pittsfield, Mass., assignor to General Electric Company. Core for electrical apparatus. No. 1,380,983; June 7; v. 287; p. 127.
- Lee, Corliss E., Pittsfield, Mass., assignor to General Electric Company. Transformer. No. 1,390,050; Sept. 6; v. 290; p. 99.
- Lee, Earle P., assignor to North East Electric Company, Rochester, N. Y. Electric system. No. 1,397,504; Nov. 1.
- Lee, Edward T., assignor to Interlocking Concrete Tile Company, Los Angeles, Calif. Wall construction. No. 1,372,358; Mar. 22; v. 284; p. 663.
- Lee, Edward W., Los Angeles, Calif. Pneumatic tire. No. 1,392,951; Oct. 11.
- Lee, Edwin S., Kansas City, Mo. Safety hair-straightening device. No. 1,384,906; July 19; v. 288; p. 471.
- Lee, Frederick E., A. L. McCallum, and S. G. Blaylock, Trail, British Columbia, assignors to The Consolidated Mining & Smelting Company of Canada, Limited, Montreal, Quebec, Canada, a Corporation of Canada. Extraction of zinc. No. 1,399,020; Dec. 6.
- Lee, Frederick G., Rochester, N. Y. Fastener for headlight-lenses. No. 1,364,564; Jan. 4; v. 282; p. 100.
- Lee Gas Generator Company. (See Lee, Joseph W., assignor.)
- Lee, George T., Glyndon, Minn. Tire-shade. No. 1,401,088; Dec. 20.
- Lee, Gerhard M., Aurora, Ill. Wrench. No. 1,377,893; May 10; v. 286; p. 347.
- Lee, Gilbert C., Los Angeles, Calif., assignor to The Safe-Cabinet Company, Marietta, Ohio. Combustion-preventer. No. 1,369,179; Feb. 22; v. 283; p. 592.
- Lee, Harry, Livingston, Mont. Self-discharging tray. No. 1,384,667; July 12; v. 288; p. 343.
- Lee, Harry N., Creston, Iowa. Automobile-lock. No. 1,390,913; Sept. 13; v. 290; p. 364.
- Lee, Harry P., Stonington, Conn. Winding device. No. 1,396,444; Nov. 8.
- Lee, Henry A., Montevideo, Minn. Sheathing vise. No. 1,377,207; May 10; v. 286; p. 214.
- Lee, Henry B. (See Whiton, L. E., and Lee.)
- Lee, Henry J., London, England. Locking device. No. 1,387,442; Aug. 9; v. 289; p. 366.
- Lee, Hoard, Shreveport, La. Self-serving store. No. 1,378,417; May 17; v. 286; p. 498.
- Lee, Hugh W. (See Matthews, T. H., and Lee.)
- Lee, Hugh W., and J. W. Swindale, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Hoist. No. 1,366,394; Jan. 25; v. 282; p. 582.
- Lee, Hugh W., and J. W. Swindale, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Ammunition-hoist. No. 1,388,349; Aug. 23; v. 289; p. 635.
- Lee, Hugh W., and J. W. Swindale, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Apparatus for loading ordnance. No. 1,392,583; Oct. 4.
- Lee, Hugh W. and R. Morrison, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Sighting-gear for guns. No. 1,397,765; Nov. 22.
- Lee, Ira, assignor to W. J. Lee, Seattle, Wash. Sadiron-holder. No. 1,394,998; Oct. 25.
- Lee, James E., Grand Haven, Mich. Printing-press. No. 1,367,193; Feb. 1; v. 283; p. 62.
- Lee, John P., Pleasantville, N. Y. Telephone attachment. No. 1,398,029; Nov. 22.
- Lee, Joseph W., Chicago, Ill., assignor, by mesne assignments, to American Road Plane, Incorporated, Wilmington, Del. Road-surfacing machine. No. 1,378,880; May 24; v. 286; p. 660.
- Lee, Joseph W., River Forest, Ill., assignor to Lee Gas Generator Company. Gas-generator. No. 1,389,670; Sept. 6; v. 290; p. 22.
- Lee, Leit, Youngstown, Ohio. Air-heating furnace. No. 1,388,583; Aug. 23; v. 289; p. 700.
- Lee Loader & Body Co. (See Byron, Orra E., assignor.)
- Lee Loader & Body Co. (See Lee, Albert P., assignor.)
- Lee, Nixon, Brooklyn, N. Y. Universal joint. No. 1,396,132; Nov. 8.
- Lee, Ole A., Grenora, N. D. Grain-seeder. No. 1,371,101; Mar. 8; v. 284; p. 301.



- Lee, Oscar, Fairfield, Mont. Ditch-filling machine. No. 1,384,617; July 12; v. 288; p. 331.
- Lee Razor Manufacturing Company. (See Browning, George, assignor.)
- Lee, Rezie E. (See Stroberger, O., and Lee.)
- Lee, Richard R., Merrimac, Mass. Window-glass guide for vehicles. No. 1,370,894; Mar. 8; v. 284; p. 261.
- Lee, Robert E., Dallas, Tex. Mail-pouch-suspending hook. No. 1,400,082; Dec. 13.
- Lee, Robert L. (See Martin, J. A., and Lee.)
- Lee, Sam H. (See Lee, Benjamin and S. H.)
- Lee, Thomas, Honolulu, Hawaii. Sling for loading and unloading merchandise. No. 1,365,511; Jan. 11; v. 282; p. 326.
- Lee, Thomas A., Essendon, Melbourne, Victoria, Australia. Fuse-box. No. 1,382,989; June 28; v. 287; p. 671.
- Lee, Thomas L. (See Halbleib, E. A., and Lee.)
- Lee, Thomas L., assignor to North East Electrical Company, Rochester, N. Y. Electromagnetic instrument. No. 1,398,463; Nov. 29.
- Lee Trailer & Body Co. (See Byron, Orra E., assignor.)
- Lee Trailer & Body Co. (See Lee, Albert P., assignor.)
- Lee, W. F. (See Roelker, Carl J., assignor.)
- Lee, Walker C., Loudonville, Ohio. Mirror-support. No. 1,387,415; Aug. 9; v. 289; p. 360.
- Lee, Walter S., *et al.* (See Abernathy, Benjamin H., assignor.)
- Lee, William B., Seattle, Wash. Nozzle. No. 1,398,868; Nov. 29.
- Lee, William E., Columbus, Ohio. Crane for handling motor-vehicle wheels. No. 1,399,353; Dec. 6.
- Lee, William J. (See Lee, Ira, assignor.)
- Lee, William J., Easton, assignor to Marine Decking and Supply Co., Philadelphia, Pa. Pulley-block construction. No. 1,366,088; Jan. 18; v. 282; p. 479.
- Lee, William J., Easton, assignor to Marine Decking and Supply Co., Philadelphia, Pa. Cotter-pin retainer. No. 1,368,989; Feb. 15; v. 283; p. 515.
- Lee, William R., Fresno, Calif. Brake. No. 1,365,925; Jan. 18; v. 282; p. 447.
- Leece, Bennett M., assignor to The Leece-Neville Company, Cleveland, Ohio. Dynamo-electric-machine control. No. 1,390,452; Sept. 13; v. 290; p. 270.
- Leece, Bennett M. and H. C. Branch, assignors to The Leece-Neville Company, Cleveland, Ohio. Regulator for dynamo-electric machines. No. 1,374,856; Apr. 12; v. 285; p. 326.
- Leece-Neville Company, The. (See Leece, B. M., and Branch, assignors.)
- Leece-Neville Company, The. (See Leece, Bennett M., assignor.)
- Leech, Abner Y., Jr., assignor to United States Ordnance Company, Washington, D. C. Powder-tank closure. No. 1,371,912; Mar. 15; v. 284; p. 521.
- Leech, Aubrey B., Los Angeles, Calif. Apparatus for producing illuminated motion effects. No. 1,369,751; Feb. 22; v. 283; p. 704.
- Leech, Edward W., Jr., Baltimore, Md. Non-skid tire-protector. No. 1,394,312; Oct. 18.
- Leedom, Walter M., Oakland, Calif. Direction-indicator. No. 1,395,645; Nov. 1.
- Leeds & Northrup Company. (See Bash, Francis E., assignor.)
- Leeds & Northrup Company. (See Keeler, Earl A., assignor.)
- Leeds & Northrup Company. (See Smith, Irving B., assignor.)
- Leeming, Frank, Guiseley, near Leeds, England. Loom-dobby. No. 1,371,564; Mar. 15; v. 284; p. 456.
- Leeper, Henry T., Fredonia, Ky. Artificial bait. No. 1,394,313; Oct. 18.
- Leeper, John B., Glenfield, Pa. Rope-clamp. No. 1,370,544; Mar. 8; v. 284; p. 195.
- Lees, Ernest J., assignor to H. T. Bradner, Cleveland, Ohio. Gear-grinder. No. 1,390,145; Sept. 6; v. 290; p. 118.
- Lees, Kenneth F., New Haven, Conn. Combined tire test-gage and valve. No. 1,368,511; Feb. 15; v. 283; p. 424.
- Lees, Kenneth F., New Haven, Conn. Tire-test gage and valve. No. 1,368,512; Feb. 15; v. 283; p. 424.
- Lees, Kenneth F., New Haven, Conn. Combined tire valve and gage. No. 1,368,513; Feb. 15; v. 283; p. 424.
- Leeseberg, Henry C. (See Pillars, E. E., and Leeseberg.)
- Leet, Albert, Bixby, Okla. Display-rack. No. 1,390,969; Sept. 13; v. 290; p. 375.
- Lefavor, Alfred, *et al.* (See Hansen, William A., assignor.)
- Lefebvre, Loda C., Grenville, Quebec, Canada. Automobile sleigh. No. 1,371,035; Mar. 8; v. 284; p. 288.
- Lefebvre, Regis, Tupper Lake, N. Y. Parting-knife. No. 1,397,691; Nov. 22.
- Lefever, Charles F., assignor to Daisy Manufacturing Company, Plymouth, Mich. Magazine for guns. No. 1,381,127; June 14; v. 287; p. 207.
- Lefever, Charles F., assignor to Daisy Manufacturing Co., Plymouth, Mich. Air-gun. No. 1,390,569; Sept. 13; v. 290; p. 294.
- Le Feyre, George A., Richmond Hill, N. Y., and H. Hutchinson, Newark, N. J., assignors to Paxflat Barrel & Crate Corporation, New York, N. Y. Barrel or crate. No. 1,391,198; Sept. 20; v. 290; p. 484.
- Leffel, Ansel B., Springfield, Ohio. Display-rack. No. 1,378,692; May 17; v. 286; p. 552.
- Lefler, Arthur. (See Cassel, Gunnar E., assignor.)
- Ledder, Ralph R., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Support for concrete-forms. No. 1,388,273; Aug. 23; v. 289; p. 639.
- Ledder, Saul S., and R. R. Hatton, Coney Island, N. Y. Headrest for bathtubs. No. 1,399,352; Dec. 6.
- Leder, William B., Springfield, Nebr. Drive mechanism for vehicles. No. 1,388,869; Aug. 30; v. 289; p. 811.
- Le Force, Darrell E., assignor to The Truck Engineering Company, Cleveland, Ohio. End-gate. No. 1,371,036; Mar. 8; v. 284; p. 288.
- Le Force, Darrell E., assignor to The Truck Engineering Company, Cleveland, Ohio. Tilting body for trucks and the like. No. 1,401,616; Dec. 27.
- Lefranc, Eugene L., assignor to Societe Des Moteurs Gnome et Rhone, Paris, France. Internal-combustion engine. No. 1,367,194; Feb. 1; v. 283; p. 62.
- Legband, Arthur, Scribner, Nebr. Hay-truck. No. 1,381,479; June 14; v. 287; p. 271.
- Legg, John H., San Antonio, Tex. Chiropractic table. No. 1,395,646; Nov. 1.
- Legendre, George E., Bridgeport, Conn. Extracting-tool. No. 1,374,588; Apr. 12; v. 285; p. 275.
- Legendre, Ovide, assignor to T. C. Sheldon, Fitchburg, Mass. Shuttle-positioner. No. 1,398,699; Nov. 29.
- Leger, Emile J., Moncton, New Brunswick, Canada. Mail-collecting apparatus. No. 1,400,611; Dec. 20.
- Le Gere, Joseph F. (See Bradford, B. M., and Le Gere.)
- Legg, Andrew C., assignor to R. D. Johnston, Jr., Birmingham, Ala. Cold-storage structure. No. 1,379,269; May 24; v. 286; p. 733.
- Legg, David A. (See Weizmann, C., and Legg.)
- Legg, David A., assignor to M. A. Adam, London, England. Copper catalyst. No. 1,401,117; Dec. 20.
- Leggett, Albert A., Baltimore, Md. Cleansing and polishing composition. No. 1,400,826; Dec. 20.
- Leggett, Herbert, Kansas City, Mo. Sound-modifier. No. 1,384,964; July 19; v. 288; p. 483.
- Legnard, Archibald B., Waukegan, Ill. Mold for retreading automobile-tires. No. 1,368,268; Feb. 15; v. 283; p. 376.
- Lehbank, Claus H. (See Auert, Nicholas A., assignor.)
- Leigh Corporation, The. (See Enders, Hugo, assignor.)
- Lehman, Bessie A., administratrix. (See Lehman, John H.)
- Lehman, Charles F., Minneapolis, Minn. Time-controlled electric device. No. 1,397,692; Nov. 22.
- Lehman, Edward G., assignor to The Berger Manufacturing Company, Canton, Ohio. Bar-rack. No. 1,380,570; June 7; v. 287; p. 46.
- Lehman, Frank H., Lebanon, Pa. Ash-sifting device. No. 1,401,543; Dec. 27.
- Lehman, John H., deceased, Elkhart, Ind.; B. A. Lehman, administratrix. Traffic-indicator. No. 1,374,380; Apr. 12; v. 285; p. 234.
- Lehman, Werner. (See Wilkie, E. J., Stevens, and Lehman.)
- Lehmann, Christian T. (See Clairemont, V., and Lehmann.)
- Lehmann, Johannes, assignor to the Firm of Carl Zeiss, Jena, German. Cinematographic apparatus. No. 1,399,567; Dec. 6.
- Lehmann, Oscar, Salt Lake City, Utah. Road-vehicle signal. No. 1,379,996; May 31; v. 286; p. 944.
- Lehmann, Oscar, Salt Lake City, Utah. Road-vehicle signal. No. 1,399,778; Dec. 13.
- Lehmann, Otto H., assignor to The Bearings Company of America, Lancaster, Pa. Multiple-row ball-bearing. No. 1,367,610; Feb. 8; v. 283; p. 202.
- Lehmann, Werner, Los Angeles, Calif. Crochet-ball holder. No. 1,386,121; Aug. 2; v. 289; p. 32.
- Lehr, Elmer. (See Rohde, John J., assignor.)
- Lehr, George J., Columbus, Ohio. Making chain-links. No. 1,367,195; Feb. 1; v. 283; p. 62.
- Lehr, Joseph E., Milwaukee, Wis. Spark-plug. No. 1,370,655; Mar. 8; v. 284; p. 216.
- Lehr, Louis, Bayonne, N. J. Three-piece watch-casing. No. 1,400,083; Dec. 13.
- Lehsou, Emil C., Missoula, Mont. Wagon-loading device. No. 1,385,560; July 26; v. 288; p. 682.
- Leibing, Joseph K., assignor to Splittorf Electrical Company, Newark, N. J. Electrical system. No. 1,368,946; Feb. 15; v. 283; p. 508.
- Leibinger, Charles, *et al.* (See Logan, Frank J., assignor.)
- Leibowitz, Jack S., Brooklyn, N. Y. Attachment for hat-clipping machines. No. 1,375,597; Apr. 19; v. 285; p. 531.
- Leich, Arthur, *et al.* (See Downey, Richard F., assignor.)
- Leich Electric Company. (See Leich, Oscar M., assignor.)
- Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Rectifier. No. 1,366,395; Jan. 25; v. 282; p. 582.
- Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Spark-plug. No. 1,375,851; Apr. 26; v. 285; p. 611.
- Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Converter. No. 1,388,274; Aug. 23; v. 289; p. 639.
- Leicht, Charles A., Sr. (See Thompson, Carl L., assignor.)



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- Leicht, John, Jr., Burlington, Iowa. Sled. No. 1,394,629; Oct. 25.
- Leicht, Louis, assignor of one-half to J. Walter, Yonkers, N. Y. Attachment for sleds. No. 1,380,600; June 7; v. 287; p. 64.
- Leichter, Benjamin, Brooklyn, N. Y. Window or key lock. No. 1,393,628; Oct. 11.
- Leigh, Abner, St. Louis, Mo. Floor-cleaning device. No. 1,383,731; July 5; v. 288; p. 99.
- Leighton, Albert. (See Randall, R. H., and Leighton.)
- Leighton, Fred W., Rockwood, Me. Revolving hay stower or slide. No. 1,398,437; Nov. 29.
- Leighton, Henry B. (See Pharmenter, George A., assignor.)
- Leighton, John M., assignor to Concrete Piling Ltd., Westminster, London, England. Keel-blocks for building ships. No. 1,397,487; Nov. 15.
- Leighton, William E., West Pembroke, Me. Sound-post. No. 1,383,830; July 5; v. 288; p. 119.
- Leighty, William J. (See Allison, I., and Leighty.)
- Leighty, William J., Springfield, Mo., assignor of one-half to H. W. Jacobs, Chicago, Ill. Locomotive fire-box. No. 1,369,117; Feb. 22; v. 283; p. 581.
- Leiman, Gustave A., New York, N. Y. Hood of polishing and buffing machines. No. 1,375,303; Apr. 19; v. 285; p. 476.
- Leiman, Henry, Tampa, Fla. Cigar-box. No. 1,365,510; Jan. 11; v. 282; p. 326.
- Leiman, Henry, Tampa, Fla. Making cigar-boxes. No. 1,395,843; Nov. 1.
- Leiman, Henry, Tampa, Fla. Cigar-box. No. 1,400,084; Dec. 13.
- Leimbach, Lizzie T. (See Harrah, Hillis A., assignor.)
- Leimecke, Blanche C., widow. (See Leimecke, Charles R.)
- Leimecke, Charles R., St. Charles, Ill. Lighting-fixture. No. 1,383,831; July 5; v. 288; p. 119.
- Leimecke, Charles R., deceased, Detroit, Mich.; B. C. Leimecke, widow. Lighting-fixture. No. 1,399,062; Dec. 6.
- Leinbrock, Oskar, Gottleuba, Germany. Intermediate belt-gearing. No. 1,394,100; Oct. 18.
- Leinert, Wenzel, New York, N. Y. Bearing. No. 1,366,089; Jan. 18; v. 282; p. 479.
- Leininger, John J. (See Leininger, William, assignor.)
- Leininger, William, New York, N. Y., assignor of one-half to J. J. Leininger, Long Island City, N. Y. Screen. No. 1,380,661; June 7; v. 287; p. 64.
- Leinweber, Curtis H., et al., executors. (See Leinweber, Frederick H.)
- Leinweber, Curtis H., W. H., and V. H., and A. Zemann, assignors to Continental Air Craft & Transportation Company, Chicago, Ill. Propeller. No. 1,372,441; Mar. 22; v. 284; p. 679.
- Leinweber, Frederick H., deceased, Chicago, Ill.; C. H. Leinweber, W. H. Leinweber, and V. H. Leinweber, executors. Airship. No. 1,386,712; Aug. 9; v. 289; p. 220.
- Leinweber, Frederick H., deceased, Chicago, Ill.; C. H. Leinweber, W. H. Leinweber, and V. H. Leinweber, executors. Airship. No. 1,386,713; Aug. 9; v. 289; p. 220.
- Leinweber, William H. (See Leinweber, Curtis H., W. H. and V. H., and Zemann.)
- Leinweber, Victor H., et al., executors. (See Leinweber, Frederick H.)
- Leipert, August H. (See Masury, A. F., and Leipert.)
- Leipert, August H., assignor to International Motor Company, New York, N. Y. Adjusting and locking ring for roller-bearings. No. 1,372,624; Mar. 22; v. 284; p. 714.
- Leipert, August H., assignor to International Motor Company, New York, N. Y. Clutch. No. 1,400,557; Dec. 20.
- Leise, Hubert A., Meriden, Conn. Telephone instrument. No. 1,394,563; Oct. 25.
- Leishman, Orson M., Baker, Oreg. Load-securing means for freight-cars. No. 1,392,343; Oct. 4.
- Leisse, Pierre L., Boulogne, assignor to L. Renault, Billancourt, France. Means for suspending endless-track vehicles. No. 1,367,060; Feb. 1; v. 283; p. 36.
- Leisse, Pierre L., Boulogne, assignor to L. Renault, Billancourt, France. Sheet-metal wheel. No. 1,385,628; July 26; v. 288; p. 696.
- Leissner, Harry F., Södertälje, Sweden. Internal-combustion engine. No. 1,401,089; Dec. 20.
- Leist, Jean L., Brooklyn, N. Y. Composition for repelling insects. No. 1,375,220; Apr. 19; v. 285; p. 459.
- Leister, Benjamin H., San Francisco, Calif. Steam-generator. No. 1,383,408; July 5; v. 288; p. 31.
- Leister, William H., assignor to The United Machinery Company, Westminster, Md. Corn-husking machine. No. 1,382,792; June 28; v. 287; p. 634.
- Leisure, Claude O., Broken Bow, Nebr. Post-puller. No. 1,385,326; July 19; v. 288; p. 557.
- Leitch, James T., assignor of two-fifths to Tilghman A. Freed, Allentown, Pa. Phonograph. No. 1,389,058; Aug. 30; v. 289; p. 849.
- Leitch, John H., assignor of one-half to A. Nelson, Detroit, Mich. Automatic accelerator. (Reissue.) No. 15,170; Aug. 2; v. 289; p. 122.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Governor for steam-driven centrifugal machines. No. 1,364,119; Jan. 4; v. 282; p. 14.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Shock-absorbing worm-screw spindle. No. 1,364,120; Jan. 4; v. 282; p. 14.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Vacuum-pump. No. 1,367,554; Feb. 8; v. 283; p. 191.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal clarifier. No. 1,370,326; Mar. 1; v. 284; p. 108.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Yieldable bearing for centrifugal machines. No. 1,373,084; Mar. 29; v. 284; p. 846.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Driving means for centrifugal bowls. No. 1,373,085; Mar. 29; v. 284; p. 846.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Master-pulsator for milling-machines. No. 1,378,881; May 24; v. 286; p. 660.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Means for excluding dirt and liquid from bearings and driving mechanism of centrifugal machines. No. 1,386,122; Aug. 2; v. 289; p. 32.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Yieldable bearing for centrifugal machines. No. 1,387,158; Aug. 9; v. 289; p. 309.
- Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking-machine. No. 1,394,433; Oct. 18.
- Leitner, Henry, Kingsway, London, England. Metal propeller for aircraft. No. 1,385,561; July 26; v. 288; p. 682.
- Leitzke, Reinhard F., Hustisford, Wis. Automatic coupling. No. 1,382,296; June 21; v. 287; p. 485.
- Leizert, Ezra N., Saltcoats, Saskatchewan, Canada. Grain-pickler. No. 1,371,913; Mar. 15; v. 284; p. 521.
- Lektophone Corporation. (See Davis, W. H. and Joss., assignors.)
- Leland, Frank R. (See Hood, A. N., Nightingale, Leland, and Dike.)
- Leland, George H., Dayton, Ohio. Short-circuiting mechanism. No. 1,385,838; July 26; v. 288; p. 739.
- Leland, Harry R., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Gas and liquid separator. No. 1,372,340; Mar. 22; v. 284; p. 641.
- Leland Lock Company. (See Stanley, Theodore D., assignor.)
- Leland, Ragnvald, Birch Hills, Saskatchewan, Canada. Flytrap. No. 1,386,415; Aug. 2; v. 289; p. 89.
- Lellis, Roy W., and E. W. Adams, assignors of one-third to F. P. Hambly, Toronto, Ontario, Canada. Game apparatus. No. 1,386,517; Aug. 2; v. 289; p. 108.
- Lely, George P., Parkstone Heights, England. Calendar or date-indicator. No. 1,368,168; Feb. 8; v. 283; p. 308.
- Lely, George P., Parkstone Heights, England. Date-indicator. No. 1,381,881; June 14; v. 287; p. 348.
- Lemaire, Emmanuel, Mons, Belgium. Electric accumulator. No. 1,366,010; Jan. 18; v. 282; p. 463.
- Le Marr, Moad H., Los Angeles, Calif. Safety-catch. No. 1,379,110; May 24; v. 286; p. 703.
- Le Marr, Moad H., Los Angeles, Calif. Safety-catch for pins and brooches. No. 1,386,574; Aug. 2; v. 289; p. 119.
- Le Mesurier, Louis J., assignor of one-half to Sir W. G. Armstrong, Whitworth & Company, Limited, Newcastle-upon-Tyne, England. Airplane-launching apparatus. No. 1,388,361; Aug. 23; v. 289; p. 657.
- Lemieux, John M., Bath, Me. Propeller. No. 1,387,416; Aug. 9; v. 289; p. 361.
- Le Mieux, Michael M., Odanah, Wis. Device for handling hot plates, &c. No. 1,372,359; Mar. 22; v. 284; p. 663.
- Leminger, William C., Sullivan, Ind. Manure-spreader. No. 1,389,518; Aug. 30; v. 289; p. 940.
- Lemke, August, Detroit, Mich. Garden-sprinkler. No. 1,368,269; Feb. 15; v. 283; p. 376.
- Lemke, Carl F., Chicago, Ill. Toy. No. 1,364,388; Jan. 4; v. 282; p. 66.
- Lemley, Frederick J., Chicago, Ill. Ball-bearing pulley. No. 1,390,996; Sept. 20; v. 290; p. 443.
- Lemley, John B. (See Walker, W., and Lemley.)
- Lemm, William. (See Visintainer, Felix, assignor.)
- Lemmer, Paul J., Groton, Conn. Envelop. No. 1,392,344; Oct. 4.
- Lemmon, George M. (See Janney, W. E., Fiscel, and Miller, assignors.)
- Lemmon, James H., Milltown, Ind., assignor to Louisville Cement Company, Louisville, Ky. Kiln. No. 1,401,481; Dec. 27.
- Lemoine, Joseph E., Vancouver, British Columbia, and C. W. O'Neal, Union Bay, British Columbia, Canada. Whistle-operating connection. No. 1,392,773; Oct. 4.
- Lemon, C. C., et al. (See Kelley, Benjamin F., assignor.)
- Lemon, Frederick M., Oklahoma, Okla. Automatic opener for parachutes. No. 1,394,201; Oct. 18.
- Lenderoth, Arnold W. (See Fox, A. H., and Lenderoth.)



- Lenders, Adolph W. H., Cedar Rapids, Iowa, assignor, by mesne assignments, to Penick & Ford, Ltd., Incorporated. Food product made from corn and manufacturing the same. No. 1,391,065; Sept. 20; v. 290; p. 457.
- Lendle, August, Forest Hills, assignor to Kuttroff Pickhardt & Co., Inc., New York, N. Y. Dyeing. No. 1,375,919; Apr. 26; v. 285; p. 624.
- Lendle, August, Forest Hills, assignor to Kuttroff Pickhardt & Co., Inc., New York, N. Y. Precipitating acid colors. No. 1,378,418; May 17; v. 286; p. 498.
- Lengyel, John. (See Doll, H., and J. and Lengyel.)
- Lengyel, John, and H. Doll, New York, N. Y. Sheet-driving mechanism. No. 1,366,918; Feb. 1; v. 283; p. 7.
- Leuhart, Charles F., Philadelphia, Pa. Die. No. 1,380,984; June 7; v. 287; p. 125.
- Leubart, George, Eufaula, Okla. Expanding reamer. No. 1,389,519; Aug. 30; v. 289; p. 940.
- Lenher, Victor, Madison, Wis. Manufacture of selenium oxychlorid. No. 1,382,920; June 28; v. 287; p. 658.
- Lenher, Victor, Madison, Wis. Manufacture of selenium oxychlorid. No. 1,382,921; June 28; v. 287; p. 658.
- Lenher, Victor, Madison, Wis. Manufacture of selenium oxychlorid. No. 1,382,922; June 28; v. 287; p. 658.
- Lenher, Victor, Madison, Wis. Compound and producing same. No. 1,385,081; July 19; v. 288; p. 509.
- Lenholt, John E., assignor of one-half to C. R. Tainter, Guilford, Conn. Coupling-fastener. No. 1,378,693; May 17; v. 286; p. 552.
- Lennards, Frank H., Evanston, Ill. Fountain-pen. No. 1,381,571; June 14; v. 287; p. 289.
- Lennig, Edmund B., assignor to Thermic Engineering Co., San Francisco, Calif. Thermostatic device. No. 1,391,329; Sept. 20; v. 290; p. 511.
- Lennon, Patrick T., Cleveland, Ohio. Cutting-tool and holder therefor. No. 1,387,417; Aug. 9; v. 289; p. 361.
- Lensvelt, Cornelius J., Zurich, Switzerland. Meat-slicing machine. No. 1,379,410; May 24; v. 286; p. 760.
- Lent, Alvah F., Newark, N. J. Cap-exploder. No. 1,377,894; May 10; v. 286; p. 347.
- Lentz, George E. (See Newbold, W. C., and Lentz.)
- Lentz, George W. (See Cox, C. C., and Lentz.)
- Lenz, Alvin F. D., Evanston, Ill. Jump-spark electric gas-lighter. No. 1,382,099; June 21; v. 287; p. 447.
- Leo, Frank, assignor of one-half to F. Sage, Milwaukee, Wis. Hair-clippers. No. 1,393,948; Oct. 18.
- Leon, Karl O., Stockholm, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Resilient support for machinery. No. 1,370,599; Mar. 8; v. 284; p. 205.
- Leon, Karl O., Stockholm, Sweden. Ball-bearing. No. 1,387,993; Aug. 16; v. 289; p. 526.
- Leonard, Arthur G., Chicago, Ill. Lock. No. 1,380,571; June 7; v. 287; p. 47.
- Leonard, Caswell L., Corinth, Miss. Post-anchor. No. 1,375,398; Apr. 19; v. 285; p. 493.
- Leonard, Caswell L., Corinth, Miss. Pastry-board. No. 1,375,399; Apr. 19; v. 285; p. 493.
- Leonard, Caswell L., Corinth, Miss. Folding crate for poultry and other products. No. 1,389,199; Aug. 30; v. 289; p. 877.
- Leonard, Charles D. and H. J. Hauser, Rochester, N. Y. Wheeling-coop. No. 1,397,693; Nov. 22.
- Leonard, Chester S., Lansdowns, Pa. Fruit-pitting machine. No. 1,392,690; Oct. 4.
- Leonard, Don C., Greenville, S. C. Motor-drive for looms. No. 1,379,349; May 24; v. 286; p. 749.
- Leonard, Don C., and A. P. Greer, Greenville, S. C. Front-roll stand for spinning-frames. No. 1,395,284; Nov. 1.
- Leonard, Eloy R., Mountain Lakes, N. J. Sash-weight. No. 1,384,074; July 12; v. 288; p. 218.
- Leonard, Frank B. (See Beasley, Alfred E., assignor.)
- Leonard, Frank B., Los Angeles, Calif., assignor of one-half to A. E. Beasley, Toronto, Ontario, Canada. Automobile-lock. No. 1,393,552; Oct. 11.
- Leonard, J. E. (See Briles, Larkin, assignor.)
- Leonard, James L., Pleasant Hill, Mo. Self-dumping hay-rake. No. 1,384,264; July 12; v. 288; p. 258.
- Leonard, John E., Los Angeles, Calif., assignor, by mesne assignments, to Mitchell Camera Co. Adjustable curtain for cameras. No. 1,390,246; Sept. 6; v. 290; p. 137.
- Leonard, John E., Los Angeles, Calif., assignor, by mesne assignments, to Mitchell Camera Co. Adjustable iris for cameras. No. 1,392,876; Oct. 4.
- Leonard, John E., Los Angeles, Calif., assignor, by mesne assignments, to Mitchell Camera Co. Adjustable iris and curtain for cameras. No. 1,396,717; Nov. 8.
- Leonard, John P., Hawley, Pa. Footboard-holder for automobiles. No. 1,396,856; Nov. 15.
- Leonard, Joseph E. (See Howle, E. O., and Leonard.)
- Leonard, Joseph E., Cedar Rapids, Iowa. Sectional tent-stove. No. 1,371,794; Mar. 15; v. 284; p. 499.
- Leonard, Leslie V., Richmond, Victoria, Australia. Electric heater unit. No. 1,373,895; Apr. 5; v. 285; p. 100.
- Leonard, Nathan, and V. Arkin, Chicago, Ill. Number embossing, stamping, or imprinting machine. No. 1,368,169; Feb. 8; v. 283; p. 308.
- Leonard, Norris C., Baltimore, Md. Sanitary trap. No. 1,375,598; Apr. 19; v. 285; p. 531.
- Leonard Roller Gear Drive Thresher Company, The. (See Leonard, William C., assignor.)
- Leonard, Roy E., Los Angeles, Calif. Process of and apparatus for drilling oil-wells. No. 1,400,962; Dec. 20.
- Leonard, William C., assignor to The Leonard Roller Gear Drive Thresher Company, Lewiston, Idaho. Feeder for grain-separators. No. 1,400,688; Dec. 20.
- Leonhardt, Martin W., Chattanooga, Tenn. Adjustable dust-collector. No. 1,393,553; Oct. 11.
- Leonhardt, Martin W., Chattanooga, Tenn. Adjustable dust-collector. No. 1,393,554; Oct. 11.
- Leoni, Alfonso M. (See Asprooth, A. H., and Leoni.)
- Leoni, Alfonso M., Philadelphia, Pa., assignor, by mesne assignments, to Steinmetz Electric Motor Car Corporation, Baltimore, Md. Rear-axle assembly. No. 1,385,082; July 19; v. 288; p. 509.
- Leopold, George O., assignor to North Bros. Mfg. Co., Philadelphia, Pa. Lifting-jack. No. 1,395,123; Oct. 25.
- Lepak, Henry, Minneapolis, Minn. Grain-treating machine. No. 1,392,649; Oct. 4.
- Le Page, Alfred W., Vancouver, British Columbia, Canada. Electric heater for liquid fuel. No. 1,382,518; June 21; v. 287; p. 527.
- Le Page, Alfred W., Vancouver, British Columbia, Canada. Means for heating liquid fuel. No. 1,382,519; June 21; v. 287; p. 527.
- Lepère, Eugene M. G., Paris, France. Wheel. No. 1,365,835; Jan. 18; v. 282; p. 430.
- Le Petit, Charles, Mombasa, British East Africa, assignor to Power Alcohol Limited, London, England. Fuel. No. 1,377,992; May 10; v. 286; p. 365.
- Lepley, Daniel F., Connelville, Pa. Mine-skip. No. 1,379,869; May 31; v. 286; p. 920.
- Lepley, Daniel F., Connelville, Pa. Gravity-car control for mine-hoists. No. 1,379,870; May 31; v. 286; p. 921.
- Leppert, Henry E., New Britain, assignor to The Trumbull Electric Mfg. Co., Plainville, Conn. Electric switch. No. 1,381,568; June 14; v. 287; p. 288.
- Le Pul, Henry J., New York, N. Y. Aeroplane. No. 1,394,314; Oct. 18.
- Lerch, William F., Hartford, Conn. Swab. No. 1,388,960; Aug. 30; v. 289; p. 829.
- Lerch, William G., Akron, assignor to The India Tire & Rubber Company, Mogadore, Ohio. Apparatus for manufacturing pneumatic-tire casings. No. 1,381,316; June 14; v. 287; p. 241.
- Lerevers, Robert R., Cairo, Ill. Sole-channeling cutter. No. 1,392,422; Oct. 4.
- Lerner, Harry, Brooklyn, N. Y. Electric-lamp stand. No. 1,383,132; June 28; v. 287; p. 698.
- Leroy, Charles E. H., and F. M. J. A. Claireaux, Versailles, France. Manufacture of a plastic product. No. 1,394,746; Oct. 25.
- Le Roy, Gustave L., Kansas City, Mo. Screen. No. 1,398,869; Nov. 29.
- Lesage, John B., Morris, Minn. Slat-repairing device. No. 1,388,051; Aug. 16; v. 289; p. 538.
- Leschen, William F. (See Harder, Harry E., assignor.)
- Les Etablissements Poulenc Freres. (See Senderens, Jean B., assignor.)
- Lesh, Fred J., et al. (See Davis, Ernest F., assignor.)
- Lesher, Samuel E., Marion, Ohio. Watch. No. 1,367,403; Feb. 1; v. 283; p. 104.
- Leshing, Michael. (See Isnow, Demetry, assignor.)
- Lesiuk, Nykolaj M., New York, N. Y. Muffin-forming machine. No. 1,369,447; Feb. 22; v. 283; p. 644.
- Leslie Co., The. (See Metzger, Jules F., assignor.)
- Leslie, Edward A., and H. M. Brigham, Brooklyn, N. Y. Furnace for heating metals. No. 1,382,002; June 21; v. 287; p. 430.
- Leslie, John W., Evanston, Ill. Reinforcing-girth. No. 1,399,063; Dec. 6.
- Lesner, John A. (See Harding, Lewis W., assignor.)
- Lesser, Philip H., Franklin, Pa. Exhaust-muffler for internal-combustion motors. No. 1,370,456; Mar. 1; v. 284; p. 133.
- Lessing, Rudolf. (See Linder, S. E., and Lessing.)
- Lester, Howard W., Hartford, Conn. Lamp. No. 1,401,415; Dec. 27.
- Lester, James J., Jr., Green Bay, Wis. Spark-plug. No. 1,401,799; Dec. 27.
- Lester, Thomas H., Chicago, Ill. Labeling-machine. No. 1,364,942; Jan. 11; v. 282; p. 217.
- Lester, William G., L. C. Naeser, and W. J. Pullock, Germiston, Transvaal, South Africa. Nut-lock. No. 1,370,216; Mar. 1; v. 284; p. 87.
- Lester, William M., Sterling, Colo. Stock-waterer. No. 1,372,888; Mar. 29; v. 284; p. 808.
- Lester, William W., Cincinnati, Ohio. Air-preheating mechanism for mill-furnaces. No. 1,389,059; Aug. 30; v. 289; p. 849.
- Letchford, Percy H., and G. H. Saltmarsh, Winnipeg, Manitoba, Canada. Headlight-dimmer. No. 1,377,711; May 10; v. 286; p. 310.
- Letchworth, Geoffrey J., Buffalo, N. Y. Safety appliance. No. 1,386,342; Aug. 2; v. 289; p. 75.
- Lethern, Albert A., London, England, assignor, by mesne assignments, to Mills Belt Company, Worcester, Mass. Military equipment. No. 1,383,315; July 5; v. 288; p. 12.
- Letko, Andrew, Indiana Harbor, Ind. Rail-joint fastener. No. 1,391,130; Sept. 20; v. 290; p. 470.



## Alphabetical list of patentees—Continued.

- Letourneau, Francois, Providence, R. I. Dancing-figure toy. No. 1,368,738; Feb. 15; v. 283; p. 468.
- Letsch, Frederick W., Baltimore, Md. Typographic machine. No. 1,381,205; June 14; v. 287; p. 221.
- Letsch, Frederick W., Baltimore, Md. Typographic machine. No. 1,392,017; Sept. 27; v. 290; p. 724.
- Letsch, Frederick W., assignor to J. N. McFarland, Baltimore, Md. Typographic machine. No. 1,392,018; Sept. 27; v. 290; p. 725.
- Lettenberger, John R., Jr. (See Montgomery, Roscoe C.)
- Letts, Ellsworth M., assignor of forty-nine one-hundredths to C. C. Annabel, Waverly, N. Y. Bottle-capping device. No. 1,401,800; Dec. 27.
- Letts, Ellsworth M., assignor of forty-nine one-hundredths to C. C. Annabel, Waverly, N. Y. Bottle-capping device. No. 1,401,801; Dec. 27.
- Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Apparatus for wrapping up articles of parallelepiped form. No. 1,378,694; May 17; v. 286; p. 552.
- Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Automatic sheet-feeding device. No. 1,394,202; Oct. 18.
- Leumann, Richard, Chailly-sur-Lausanne, Switzerland. Apparatus for unwinding paper strips from rolls of paper in wrapping-machines. No. 1,400,827; Dec. 20.
- Lev, Frank W., Astoria, N. Y., assignor, by mesne assignments, to L. S. Escobales. Blank or sheet feeding mechanism. No. 1,377,841; May 10; v. 286; p. 337.
- Levaire, Edmond F., Paris, France. Fastening means for vignole rails. No. 1,396,271; Nov. 8.
- Levaire, Edmond F., Paris, France. Rail-joint. No. 1,396,272; Nov. 8.
- Levan, Clarence E., Berwick, Pa. Spark-arrester. No. 1,375,052; Apr. 19; v. 285; p. 427.
- Levanseler, Frank E., Chicago, Ill. Support for hinged covers or members. No. 1,370,135; Mar. 1; v. 284; p. 71.
- Levasseur, Paul, Fall River, Mass. Spindle-mounting. No. 1,382,990; June 28; v. 287; p. 671.
- Levasseur, Pierre, Paris, France. Aerial propeller. No. 1,389,146; Aug. 30; v. 289; p. 866.
- Levaur, Aaron, New York, N. Y. Building unit. No. 1,364,768; Jan. 4; v. 282; p. 139.
- Levaur, Aaron, New York, N. Y. Display-envelop. No. 1,387,784; Aug. 16; v. 289; p. 486.
- Levé, Marcus S., Oakland, and L. B. de Laitte, assignors to L. Dandeville, San Francisco, Calif. Machine for carbureting air. No. 1,395,505; Nov. 1.
- Levedahl, Axel, Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Combined piston and plunger-rod. No. 1,380,397; June 7; v. 287; p. 14.
- Levedahl, Axel, Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Hose-mender. No. 1,382,840; June 28; v. 287; p. 642.
- Levedahl, Axel, Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Valve-housing or handle-lock for pneumatic tools. No. 1,385,178; July 19; v. 288; p. 529.
- Leven, Swan J., assignor of one-third to C. Shields and one-third to J. T. Marron, Rock Island, Ill. Storage battery. No. 1,395,683; Nov. 1.
- Levene, Albert H., Philadelphia, Pa. Core or other rack. No. 1,385,012; July 19; v. 288; p. 494.
- Levene, Albert H., Philadelphia, Pa. Brace for shipping vehicles. No. 1,385,013; July 19; v. 288; p. 495.
- Leveque, Philip H. (See Veilleux, L., Leveque, and Barnes.)
- Lever Brothers Company. (See Hallock, James E., assignor.)
- Leverett, Harry L., assignor to International Motor Company, New York, N. Y. Breather for transmission-cases. No. 1,365,836; Jan. 18; v. 282; p. 430.
- Leverett, Harry L., assignor to International Motor Company, New York, N. Y. Motor-hood. No. 1,365,837; Jan. 18; v. 282; p. 430.
- Leveridge, Walter J., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube holder. No. 1,386,714; Aug. 9; v. 289; p. 220.
- Levering, James F., Atlantic City, N. J., assignor to Standard Cotton Company of America. Machine for treating cotton. No. 1,394,775; Oct. 25.
- Le Vesconte, Alfred T., Anona, Fla. Device for indicating the level of oil in engine crank-cases. No. 1,379,350; May 24; v. 286; p. 749.
- Levett, Alexander, New York, N. Y. Buffing or polishing wheel. No. 1,374,018; Apr. 5; v. 285; p. 124.
- Levett, Alexander, New York, N. Y., assignor to B. D. Riegel, trustee, Fairfield, Conn. Buffing or polishing wheel. (Reissue.) No. 15,226; Nov. 15.
- Levey, Harold A., New Orleans, La. Treating fatty acids and glycerids thereof. No. 1,374,589; Apr. 12; v. 285; p. 276.
- Levey, Thomas J. (See Hartieb, R. C., and Levey.)
- Levi, Plus R., Charleston, W. Va. Dispensing attachment for cans. No. 1,380,662; June 7; v. 287; p. 64.
- Levi, Samuel J., London, England. Electrical amusement apparatus. No. 1,399,712; Dec. 6.
- Levi Strauss & Co. (See Beronio, Fred, assignor.)
- Levin, Isaac H., New York, N. Y. Separator for electrolytic cells. No. 1,366,090; Jan. 18; v. 282; p. 479.
- Levin, Isaac H., assignor to Electrolytic Oxy-Hydrogen Laboratories, Inc., New York, N. Y. Electrolytic gas-generator. No. 1,372,442; Mar. 22; v. 284; p. 679.
- Levin, Max, Chicago, Ill. Steamer. No. 1,393,725; Oct. 11.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Protective device. No. 1,370,656; Mar. 8; v. 284; p. 216.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,371,314; Mar. 15; v. 284; p. 405.
- Levin, Nils D., assignor to Jeffrey Manufacturing Company, Columbus, Ohio. Drilling-machine. No. 1,374,590; Apr. 12; v. 285; p. 276.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining apparatus. No. 1,377,842; May 10; v. 286; p. 337.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Rope-winding apparatus. No. 1,378,357; May 17; v. 286; p. 486.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine truck. No. 1,378,358; May 17; v. 286; p. 486.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining apparatus. No. 1,378,359; May 17; v. 286; p. 486.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining and loading machine. No. 1,378,360; May 17; v. 286; p. 487.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining and loading mechanism. No. 1,378,361; May 17; v. 286; p. 487.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining apparatus. No. 1,378,362; May 17; v. 286; p. 487.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Apparatus for mining coal. No. 1,378,830; May 17; v. 286; p. 577.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine truck. No. 1,392,835; Oct. 4.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine truck. No. 1,392,836; Oct. 4.
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,395,647; Nov. 1.
- Levine, Abraham, Brooklyn, and L. Offerman, assignors to Presto Metal Stamping Corporation, New York, N. Y. Attaching means for separable fastener elements. No. 1,397,382; Nov. 15.
- Levine, Benjamin, Brooklyn, N. Y. Box-bed-spring construction. No. 1,382,432; June 21; v. 287; p. 511.
- Levine, Bernard, New York, N. Y., assignor of one-half to The H. Wolf Estate. Automatic marker. No. 1,377,208; May 10; v. 286; p. 214.
- Levine, Edward, New Haven, Conn. Flush for water-closets. No. 1,400,222; Dec. 13.
- Levy, Joseph, assignor to Boston Time Stamp Company, Boston, Mass. Time-stamp. No. 1,394,179; Oct. 18.
- Levine, Joseph M., et al. (See Carmody, Harold J., assignor.)
- Levine, Myer P. (See Madan, E. K., and Levine.)
- Levinstein, Herbert, and J. Baddiley, Manchester, England. Production of fast shades on vegetable fibers and dyestuffs therefor. No. 1,365,706; Jan. 18; v. 282; p. 404.
- Levinson, Louis. (See Scheim, Albert N., assignor.)
- Levinstein Limited. (See Bader, Walter, assignor.)
- Levis, William W., Chicago, Ill. Shingle roof. No. 1,368,947; Feb. 15; v. 283; p. 508.
- Levit, Philip M., Chicago, Ill. Veil-fastening device. No. 1,386,788; Aug. 9; v. 289; p. 235.
- Levitan, Nathan A., Brooklyn, N. Y. Gage-lamp. No. 1,399,628; Dec. 6.
- Levitt, Ephraim, Westmont, Quebec, Canada. Treating potassium-bearing silicates. No. 1,399,216; Dec. 6.
- Levitt, Ephraim, Westmont, Quebec, Canada. Decomposing clays. No. 1,399,217; Dec. 6.
- Levy, Arthur B. (See Singer, J. B., and Levy.)
- Levy, Beno, New York, N. Y. Pocket-book. No. 1,364,769; Jan. 4; v. 282; p. 139.
- Levy, Charles A., et al. (See Gregory, William F., assignor.)
- Levy, Daniel B., assignor to Unedea Cone Co., New York, N. Y. Pastry-forming device. No. 1,376,711; May 3; v. 286; p. 62.
- Levy, Edward D. (See Jacobs, H. W., and Levy.)
- Levy, Henri G., San Francisco, Calif. Tire-lock. No. 1,370,977; Mar. 8; v. 284; p. 277.
- Levy, Henri G., San Francisco, Calif. Edging. No. 1,400,174; Dec. 13.
- Levy, Isidor, New York, N. Y. Garbage-can. No. 1,401,090; Dec. 20.
- Levy, Joseph, Brooklyn, N. Y. Container. No. 1,384,725; July 12; v. 288; p. 354.
- Levy, Maurice. (See Bornhaupt, Florence, assignor.)
- Levy, Max, New York, N. Y. Yarn-holder. No. 1,386,264; Aug. 2; v. 289; p. 60.
- Levy, William, and M. Cortese, Paterson, N. J.; said Cortese assignor to said Levy. Traction-lug. No. 1,369,623; Feb. 22; v. 283; p. 679.
- Lewandowski, Anthony, and M. Katafiasz, Toledo, Ohio. Merry-go-round. No. 1,393,629; Oct. 11.
- Lewandowski, Jacob. (See Wojcik, Stefan, assignor.)
- Lewellen, Darcy E., assignor to Lewellen Manufacturing Company, Columbus, Ind. Bearing for variable-speed transmission mechanism. No. 1,375,053; Apr. 19; v. 285; p. 428.



*Alphabetical list of patentees—Continued.*

- Lewellen, Darcy E., assignor to Lewellen Manufacturing Company, Columbus, Ind. Variable-speed transmission. No. 1,377,593; May 10; v. 286; p. 288.
- Lewellen, Darcy E., assignor to Lewellen Manufacturing Company, Columbus, Ind. Frame construction. No. 1,386,939; Aug. 9; v. 289; p. 266.
- Lewellen Manufacturing Company. (See Lewellen, Darcy E., assignor.)
- Lewerenz, William, St. Louis, Mo. Mouthpiece for reed instrument. No. 1,401,159; Dec. 27.
- Lewin, Martha, New York, N. Y. Curtain-fixture. No. 1,386,715; Aug. 9; v. 289; p. 220.
- Lewinson, Hyman, Erie, Pa. Self-filling fountain-pen. No. 1,392,837; Oct. 4.
- Lewinson, Hyman, Erie, Pa. Self-filling fountain-pen. No. 1,392,838; Oct. 4.
- Lewis, Abraham. (See Zsarnay, Béla, assignor.)
- Lewis, Archibald B., et al. (See Bernhard, Hieronymus, assignor.)
- Lewis, Benjamin A., Philadelphia, Pa. Device for supporting weak feet and treating fallen arches of feet. No. 1,365,512; Jan. 11; v. 282; p. 327.
- Lewis, Charles E., San Antonio, Tex. Combined stool and table. No. 1,369,251; Feb. 22; v. 283; p. 607.
- Lewis, Charles H., Syracuse, N. Y. Steam-generator. No. 1,382,204; June 21; v. 287; p. 467.
- Lewis, Claude L., Omaha, Nebr. Agitator. No. 1,394,315; Oct. 18.
- Lewis, Cyril H., Shangani, Southern Rhodesia, British South Africa. Wrench. No. 1,384,618; July 12; v. 288; p. 332.
- Lewis, David W. (See Kinnear, Philo B., assignor.)
- Lewis, E. G. (See Freeman, Arthur J., assignor.)
- Lewis, Elmer M., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Manufacturing bicycle-forks. No. 1,378,041; May 17; v. 286; p. 427.
- Lewis, Elmer M., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Bicycle construction. No. 1,388,961; Aug. 30; v. 289; p. 829.
- Lewis, Everett C., Providence, R. I. Machine-tool fixture. No. 1,382,793; June 28; v. 287; p. 634.
- Lewis, Frank B., and T. S. Cooke, assignors to Standard Oil Company, Whiting, Ind. Distilling petroleum-oils. No. 1,392,584; Oct. 4.
- Lewis, Frank D., Denver, Colo. Automatic coin-stacker. No. 1,371,383; Mar. 15; v. 284; p. 419.
- Lewis, Frank D., West Orange, N. J., assignor to Pathe Freres Phonograph Company, Brooklyn, N. Y. Stylus-holder for talking-machines. No. 1,389,885; Sept. 6; v. 290; p. 66.
- Lewis, Frank D., West Orange, N. J., and Nemnich, New York, N. Y., assignors to Pathe Freres Phonograph Company, Brooklyn, N. Y. Stylus-holder for talking-machines. No. 1,389,886; Sept. 6; v. 290; p. 66.
- Lewis, Frank D., West Orange, N. J., assignor to Pathe Freres Phonograph Company, New York, N. Y. Automatic stop mechanism for phonographs. No. 1,394,776; Oct. 25.
- Lewis, Frank D., West Orange, N. J., assignor to Pathe Freres Phonograph Company. Automatic stop for phonographs. No. 1,394,777; Oct. 25.
- Lewis, Frank R., San Francisco, Calif. Landing-net. No. 1,391,841; Sept. 27; v. 290; p. 688.
- Lewis, Fred G., assignor to Rhodes Harvester Company, Spokane, Wash. Conveyer. No. 1,399,130; Dec. 6.
- Lewis, Fred G., assignor to Rhodes Harvester Company, Spokane, Wash. Steering mechanism. No. 1,400,689; Dec. 20.
- Lewis, Fred G., Dishman, assignor to Spokane Manufacturing Company, Spokane, Wash. Traction-machine. No. 1,400,690; Dec. 20.
- Lewis, Fred K., Ashtabula, Ohio. Top for vehicles and the like. No. 1,379,635; May 31; v. 286; p. 877.
- Lewis, Frederick O., Dayton, Ohio. Emergency-axle for automobiles. No. 1,380,870; June 7; v. 286; p. 105.
- Lewis, Frederick W., assignor to Chapin & Hollister Co., Providence, R. I. Forming a buckle-body. No. 1,395,124; Oct. 25.
- Lewis, G. B., Company. (See Hawkins, Kenneth, assignor.)
- Lewis, G. B., Company. (See Swann, Henry C., assignor.)
- Lewis, George S., assignor to Page-Lewis Arms Company, Chicopee Falls, Mass. Adjustable rear sight for rifles. No. 1,401,517; Dec. 27.
- Lewis, George W., Chicago, Ill. Educational-chart holder. No. 1,371,102; Mar. 8; v. 284; p. 301.
- Lewis, Goodrich Q., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-barrel. No. 1,372,705; Mar. 29; v. 284; p. 771.
- Lewis, Goodrich Q., Wheaton, Ill., assignor to W. H. Miner, Chazy, N. Y. Car-underframe reinforcement. No. 1,372,706; Mar. 29; v. 284; p. 771.
- Lewis, H. G., and W. S. Mayer, assignors to said Mayer, Philadelphia, Pa. Gradometer. No. 1,378,042; May 17; v. 286; p. 427.
- Lewis, Harry A., Norristown, Pa. Work-handling method. No. 1,367,061; Feb. 1; v. 283; p. 36.
- Lewis, Harry A., Norristown, Pa. Rolling metal. No. 1,370,694; Mar. 8; v. 284; p. 224.
- Lewis, Harry A., Norristown, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system and apparatus. No. 1,387,498; Aug. 16; v. 289; p. 428.
- Lewis, Harry B., Brooklyn, assignor to Boorum & Pease Company, New York, N. Y. Loose-leaf binder. No. 1,399,629; Dec. 6.
- Lewis, Harry S., Beaver Falls, N. Y. Composite sheet. No. 1,374,931; Apr. 19; v. 285; p. 403.
- Lewis, Henry C., Pittsburgh, Pa. Sewing device. No. 1,377,209; May 10; v. 286; p. 214.
- Lewis, Henry G., and W. S. Mayer, assignors to Electric Service Supplies Company, Philadelphia, Pa. Handhold-hanger. No. 1,373,746; Apr. 5; v. 285; p. 70.
- Lewis, Henry G., and W. S. Mayer, assignors to Electric Supplies Company, Philadelphia, Pa. Contact-shoe. No. 1,378,695; May 17; v. 286; p. 552.
- Lewis, I., Cigar Manufacturing Co. (See Laurell, John, assignor.)
- Lewis, James C., Portland, Me. Vehicle-wheel with permanent rim or metal felly. No. 1,400,828; Dec. 20.
- Lewis, James T., executor. (See Congleton, Osborn, assignor.)
- Lewis, James T., Toronto, Ontario, Canada. Windshield-cleaner. No. 1,382,205; June 21; v. 287; p. 467.
- Lewis, Jerry M., Little Rock, Ark. Umbrella. No. 1,385,327; July 19; v. 288; p. 557.
- Lewis, John D., Tyrone, Okla. Axle for Ford cars. No. 1,380,985; June 7; v. 287; p. 127.
- Lewis, John E., Milwaukee, Wis. Selective change-making machine. No. 1,392,691; Oct. 4.
- Lewis, John M. B., assignor to Cowmatic Corporation, Lynchburg, Va. Cow-stall. No. 1,379,769; May 31; v. 286; p. 901.
- Lewis, Joseph R. (See Straka, John, assignor.)
- Lewis, Joseph W., assignor to The Atlantic Refining Company, Philadelphia, Pa. Method of and apparatus for treatment of petroleum. No. 1,364,443; Jan. 4; v. 282; p. 77.
- Lewis, Le Grand B. (See Cashner, Roy C., assignor.)
- Lewis, Leroy M., Philadelphia, Pa., assignor to O. B. Lewis, Baltimore, Md. Fusible link and strut. No. 1,379,195; May 24; v. 286; p. 719.
- Lewis, Leroy M., Philadelphia, Pa. Making fusible links. No. 1,382,368; June 21; v. 287; p. 498.
- Lewis, Leroy M., Philadelphia, Pa., assignor to O. B. Lewis, Baltimore, Md. Alarm check-valve. No. 1,385,460; July 26; v. 288; p. 662.
- Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,365,329; Jan. 11; v. 282; p. 291.
- Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Train-control system. No. 1,365,838; Jan. 18; v. 282; p. 430.
- Lewis, Lloyd V., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,373,086; Mar. 29; v. 284; p. 847.
- Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. (Reissue.) No. 15,096; Apr. 26; v. 285; p. 715.
- Lewis, Lloyd V., Edgewood borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,377,137; May 3; v. 286; p. 144.
- Lewis, Lloyd V., Edgewood borough, assignor to Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,398,383; Nov. 29.
- Lewis, Nellie, Brooklyn, N. Y. Collar-band for shirts. No. 1,370,600; Mar. 8; v. 284; p. 205.
- Lewis, Otto L., Houston, Tex. Support and driving mechanism for adjustable drive-wheels of tractors. No. 1,386,123; Aug. 2; v. 289; p. 32.
- Lewis, Otto L., Houston, Tex. Power steering device for tractors. No. 1,394,682; Oct. 25.
- Lewis, Owen B. (See Lewis, Leroy M., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Callard, R. P., and Rhonemus, assignors.)
- Lewis, Rex W., Portland, Oreg. Drill. No. 1,387,994; Aug. 16; v. 289; p. 527.
- Lewis, Robert, Topeka, Kans. Lantern. No. 1,392,774; Oct. 4.
- Lewis, Robert W., Granville, N. D. Oiler for disk drills. No. 1,383,957; July 5; v. 288; p. 144.
- Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Time-lock. No. 1,386,575; Aug. 2; v. 289; p. 119.
- Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Dial-lock. No. 1,395,844; Nov. 1.
- Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Dial-lock. No. 1,395,845; Nov. 1.
- Lewis, Rollin C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Dial-lock. No. 1,398,642; Nov. 29.
- Lewis and Roth Company. (See Bechoff, F., and Samuels, assignors.)
- Lewis, Samuel H., Richmond, Va. Steam-supply means for cylinders of railway-locomotives. No. 1,395,648; Nov. 1.
- Lewis, Samuel H., Richmond, Va. Steam-supply means for cylinders of railway-locomotives. No. 1,399,131; Dec. 6.
- Lewis, Samuel W., Brooklyn, N. Y. Flush-tank apparatus. No. 1,377,712; May 10; v. 286; p. 310.



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- Lewis, Theodore G., assignor to Buffalo Dental Manufacturing Company, Buffalo, N. Y. Circuit-controller. No. 1,400,886; Dec. 20.
- Lewis, Thomas, and F. C. Scrimger, Pontiac, Mich. Indicator. No. 1,390,570; Sept. 13; v. 290; p. 294.
- Lewis, Thomas D., Scranton, Pa. Valve. No. 1,384,668; July 12; v. 288; p. 343.
- Lewis, Thomas V. (See Gaskell, W. H., Dawson, and Lewis.)
- Lewis Trust Limited, The. (See Coney, Joseph, assignor.)
- Lewis, Warren K., and W. Green, Newton, Mass. Solvent-recovery apparatus. No. 1,371,914; Mar. 15; v. 284; p. 521.
- Lewis, Wilbert J., *et al.* (See Smith, Frank W., assignor.)
- Lewis, Wilfred E. D., J. S. Adamson, and M. J. Mahon, Ottawa, Ontario, Canada. Portable flushing device. No. 1,395,125; Oct. 25.
- Lewitt, Louis, Brooklyn, N. Y. Two-piece watch-casing. No. 1,385,839; July 26; v. 288; p. 739.
- Lewson, Nicolaus, Portland, Me. Tire-tool. No. 1,378,696; May 17; v. 286; p. 552.
- Ley, George A., Chicago, Ill. Igniter. No. 1,384,840; July 19; v. 288; p. 458.
- Leyerer, John S., Saginaw, Mich. Support for hose-nozzles. No. 1,373,087; Mar. 29; v. 284; p. 847.
- Leyland, Frederick W., Cambridge, and E. P. Brock, Boston, Mass. Conveying and cooling apparatus for confections and the like. No. 1,364,121; Jan. 4; v. 282; p. 15.
- Leyland, Frederick W., Cambridge, and E. P. Brock, Boston, Mass. Machine for cooling chocolates and the like. No. 1,389,887; Sept. 6; v. 290; p. 66.
- Leymarie, Edmond, Paris, France. Sparking plug. No. 1,378,122; May 17; v. 286; p. 443.
- L'Heureux, Joseph H., Lowell, Mass. Garment-supporter. No. 1,394,316; Oct. 18.
- Liarsou, Jean B. M., Paris, and C. Colombani, Bondy, assignors of one-half to R. Ford, Paris, France. Closing means for receptacles of all kinds. No. 1,372,007; Mar. 22; v. 284; p. 596.
- Libbey, Henry N., Boston, Mass. Valve for flushing-tanks. No. 1,396,133; Nov. 8.
- Libbey-Owens Sheet Glass Company, The. (See Crowley, Joseph P., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Owens, Michael J., assignor.)
- Libbey-Owens Sheet Glass Company, The. (See Rhonemus, Clarence A., assignor.)
- Libby, Albion D. T., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Impulse-coupling. No. 1,390,146; Sept. 6; v. 290; p. 118.
- Libby, McNeil & Libby of Honolulu, Limited. (See Dowson, Joseph, assignor.)
- Libby-Owens Sheet Glass Company, The. (See Colburn, Irving W., assignor.)
- Libby, Tyng M., Tacoma, assignor to H. G. Cordes, Bremerton, Wash. Radiointerference preventer. No. 1,365,926; Jan. 18; v. 282; p. 448.
- Libschek, Rudolf, Pittsburgh, assignor of one-third to S. Lovrencic, Bellevue, and one-third to P. Radocaj, Pittsburgh, Pa. Muffler. No. 1,395,920; Nov. 1.
- Lieberman, Charles, New York, N. Y. Lock. No. 1,368,170; Feb. 8; v. 283; p. 309.
- Lieberman, Charles, New York, N. Y. Lock. No. 1,399,568; Dec. 6.
- Liberty Auto Lock Co. (See Saegesser, Albert W., assignor.)
- Liberty Bread Slicer. (See Knapp, Walter C., assignor.)
- Liberty Bread Slicer, Inc. (See Knapp, W. C., and Lockman, assignors.)
- Liberty Can & Sign Co. (See Gibbs, John C., assignor.) (Reissue.)
- Liberty Company, The. (See Liberty, Saul R., assignor.)
- Liberty Manufacturing & Sales Company, The. (See Kimmert, Henry, assignor.)
- Liberty Patents Syndicate. (See Cantrall, Forrest L., assignor.)
- Liberty Radiator Company. (See Coffelder, Thomas N., assignor.)
- Liberty, Saul R., assignor to The Liberty Company, Pawtucket, R. I. Bobbin-holder for shuttles. No. 1,393,145; Oct. 11.
- Liberty Steel Products Company. (See Fowler, William E., Jr., assignor.)
- Liberty Tractor Corporation. (See Neely, Roy J., assignor.)
- Libow, Frida. (See Libow, Jacob, assignor.)
- Libow, Jacob, Springfield, assignor to F. Libow, Hampden county, Mass. Wire mattress fabric. No. 1,394,848; Oct. 25.
- Library Bureau. (See Gale, Laburton A., assignor.)
- Library Bureau. (See Ohnstrand, Enoch, assignor.)
- Lichtenberg, Charles, Brooklyn, N. Y. Combined shaving-mirror and cabinet. No. 1,380,222; May 31; v. 286; p. 987.
- Lichtenberg, Erich H., assignor, by mesne assignments, to Koehring Company, Milwaukee, Wis. Loader for concrete-mixers. No. 1,387,931; Aug. 16; v. 289; p. 514.
- Lichtenhahn, Theodor, Basel, assignor to Elektrizitätswerk Lonza, Gampel and Basel, Switzerland. Working up residuary ammonium-chlorid liquors from the ammonia-soda process. No. 1,398,135; Nov. 22.
- Lichtenstein, Edmund, Berlin, Germany. Roller copying-machine. No. 1,378,697; May 17; v. 286; p. 553.
- Lichter, Adolph H., Toledo, Ohio. Machine for making upholstering-cushions. No. 1,365,041; Jan. 11; v. 282; p. 237.
- Lichter, Adolph H., Toledo, Ohio. Vehicle-top. No. 1,389,671; Sept. 6; v. 290; p. 23.
- Lichter, Malvin, New York, N. Y. Garment-hanger. No. 1,367,062; Feb. 1; v. 283; p. 36.
- Lichter, Malvin, New York, N. Y. Measuring-sheet for preparing printing-plates. No. 1,372,174; Mar. 22; v. 284; p. 627.
- Lichty, Carroll, Des Moines, Iowa. Hanger for towels and the like. No. 1,374,459; Apr. 12; v. 285; p. 250.
- Lichty, John M. (See Burke, Edward F., assignor.)
- Lickiss, Ernest E., assignor of one-third to R. King and one-third to J. B. Spangler, Oakland, Calif. Operating means for washing apparatus. No. 1,379,830; May 31; v. 286; p. 913.
- Lidberg, Tiodolf, assignor to Chicago Surgical and Electrical Company, Chicago, Ill. Sand-bath. No. 1,378,474; May 17; v. 286; p. 509.
- Lidberg, Tiodolf, assignor to Electro-Thermophore Company, Chicago, Ill. Means for controlling temperatures. No. 1,397,694; Nov. 22.
- Lidberg, Tiodolf, assignor to Chicago Surgical & Electrical Company, Chicago, Ill. Constant-temperature water-bath. No. 1,397,766; Nov. 22.
- Liddell, Michael V., assignor to Baker Manufacturing Company, Springfield, Ill. Snowplow. No. 1,383,409; July 5; v. 288; p. 32.
- Liddicoat, Caleb, Albia, Iowa. Car brake or stop. No. 1,399,972; Dec. 13.
- Liddle, Absalom. (See Hindle, A. H., Savage, Dabbs, and Liddle.)
- Liddle, Leonard M., Pittsburgh, Pa., assignor to Andrew Jergens Company, Cincinnati, Ohio. Soap. No. 1,377,843; May 10; v. 286; p. 337.
- Lidgerwood Manufacturing Company. (See Dickinson, Joseph H., assignor.)
- Lidgerwood Manufacturing Company. (See Evers, Cyrus, assignor.)
- Lidseen, Gustave, Chicago, Ill. Lubricating-can. No. 1,401,160; Dec. 27.
- Lidseen, Gustave, Chicago, Ill. Oil-can-spout closer. No. 1,401,161; Dec. 27.
- Lidseen, Gustave. (See Wahlén, Axel W., assignor.)
- Lidseen, Gustave, Chicago, Ill. Motor. No. 1,367,982; Feb. 8; v. 283; p. 273.
- Lidholm, Johan H., Wargön, Sweden. Producing cyanamid from calcium cyanamid. No. 1,380,223; May 31; v. 286; p. 987.
- Lidstone, Edward S., Providence, R. I. Pumping mechanism. No. 1,385,215; July 19; v. 288; p. 536.
- Lidstone, Edward S., Providence, R. I. Vise. No. 1,385,216; July 19; v. 288; p. 536.
- Lieb, George W., Newark, N. J., assignor to H. B. Newhall, Jr., Plainfield, N. J. Conduit or cable clamp. No. 1,365,629; Jan. 11; v. 282; p. 349.
- Liebau, Richard, assignor to The Westinghouse Air Spring Company, New Haven, Conn. Air-spring suspension. No. 1,368,563; Feb. 15; v. 283; p. 434.
- Liebau, Richard, assignor to The Westinghouse Air Spring Company, New Haven, Conn. Air-spring suspension. No. 1,368,564; Feb. 15; v. 283; p. 434.
- Liebau, Richard, New Haven, Conn., assignor to The Westinghouse Air Spring Company. Magnetic spring. No. 1,395,437; Nov. 1.
- Liebau, Richard, New Haven, Conn., assignor to The Westinghouse Air Spring Company. Air-spring suspension. No. 1,395,438; Nov. 1.
- Liebau, Theodore F. (See Grady, N. J., and Liebau.)
- Liebenberg, Christian E., Essington, Pa. Trolley-wheel. No. 1,391,741; Sept. 27; v. 290; p. 667.
- Liebenow, Karl, assignor to R. Stein and E. Ahrenkiel, Lubeck, Germany. Hair-buckle. No. 1,373,088; Mar. 29; v. 284; p. 847.
- Lieberg, Frederick W. G., Trinidad, Colo., assignor of one-third to H. Painter, Toronto, Ontario, Canada. Automobile-lock. No. 1,371,384; Mar. 15; v. 284; p. 419.
- Lieberg, Neils E., Seattle, Wash. Vehicle-spring. No. 1,400,612; Dec. 20.
- Liebert, Jerome G., assignor to R. R. Riordon, Highland, N. Y. Toy. No. 1,383,316; July 5; v. 28; p. 12.
- Liebhart, Louis F., Denver, Colo. Garden-seat and producing same. No. 1,383,410; July 5; v. 28; p. 32.
- Liebknecht, Otto, Frankfurt-on-the-Main, Germany, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Manufacture of perborates. No. 1,395,684; Nov. 1.
- Liebknecht, Otto, Frankfurt-on-the-Main, Germany, assignor to The Roessler & Hasslacher Medical Company, New York, N. Y. Manufacture of alkali perborates. No. 1,395,685; Nov. 1.
- Lieber, Henry B. (See Mehl, C. F., Lieber, Nall, and Nobbe.)
- Lieberman, Harriet, Philadelphia, Pa. Educational device. No. 1,400,887; Dec. 20.
- Lieberman, Meyer, and G. E. Doughty, New York, N. Y. Transfer system for department stores and the like. No. 1,376,950; May 3; v. 286; p. 109.
- Liebold, Ernest G., Detroit, Mich. Wall-socket. No. 1,376,712; May 3; v. 286; p. 62.



- Liebold, Ernest G., Detroit, Mich. Air-moistening structure for hot-air furnaces. No. 1,380,321; May 31; v. 286; p. 1006.
- Liebzelt, Henry G., Plymouth, Wis. Pasteurizing apparatus. No. 1,371,038; Mar. 8; v. 284; p. 289.
- Liechty, Hermann, Berne, and J. Werz, Geneva, Switzerland. Bogie for railway-vehicles. No. 1,391,742; Sept. 27; v. 290; p. 668.
- Lien, Hans, Brockton, Mont. Oil-can. No. 1,376,558; May 2; v. 286; p. 34.
- Lietz, Charles J., Newark, N. J., assignor to Ideal Wrapping Machine Company. Feeding and forming mechanism for wrapping-machines. No. 1,384,198; July 12; v. 288; p. 244.
- Lietz, Charles J., Newark, N. J., assignor to Ideal Wrapping Machine Company. Receiving and transfer mechanism for wrapping-machines. No. 1,384,199; July 12; v. 288; p. 244.
- Liff, Madison M., Los Angeles, Calif. Pump. No. 1,390,453; Sept. 13; v. 290; p. 270.
- Liggett, John C., Brookline, assignor to J. L. Demoville, Boston, Mass. Machine for extracting juice from fruit. No. 1,401,416; Dec. 27.
- Liggett & Myers Tobacco Company. (See Dula, Caleb C., assignor.)
- Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Excavating-machine. No. 1,398,195; Nov. 22.
- Light, Albert T., New York, N. Y. Ice-cream freezer. No. 1,380,918; June 7; v. 287; p. 113.
- Light, Claus H., Des Moines, Iowa, assignor of one-eighth to A. May and one-eighth to V. L. Stamen. Airless tire. No. 1,388,350; Aug. 23; v. 289; p. 655.
- Light, George K., Brooklyn, N. Y. Pumping device. No. 1,390,051; Sept. 6; v. 290; p. 99.
- Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrically-heated laundry-iron. No. 1,364,122; Jan. 4; v. 282; p. 15.
- Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heating device. No. 1,370,136; Mar. 1; v. 284; p. 72.
- Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,374,591; Apr. 12; v. 286; p. 276.
- Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,378,247; May 17; v. 286; p. 466.
- Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,389,312; Aug. 30; v. 289; p. 899.
- Lightfoot, Liles H., Signal Mountain, assignor to Du Bois Rubber & Tube Company, Chattanooga, Tenn. Inner tube. No. 1,395,439; Nov. 1.
- Lightfoot, Roy L., San Antonio, Tex. Blade-holder. No. 1,391,842; Sept. 27; v. 290; p. 688.
- Lightfoot, Thomas E., Latrobe, Pa. Operating device for automatic gates. No. 1,369,895; Mar. 1; v. 284; p. 27.
- Lightner, Arthur D., and E. Holmes, assignors to Willys-Overland Company, Toledo, Ohio. Vehicle-lifting means. No. 1,376,445; May 3; v. 286; p. 13.
- Lightner, Arthur D., and E. Holmes, assignors to Willys-Overland Company, Toledo, Ohio. Lifting-hook for shells. No. 1,376,446; May 3; v. 286; p. 13.
- Lightner, Arthur D., and E. Holmes, assignor to The Willys-Overland Company, Toledo, Ohio. Hoisting apparatus. No. 1,398,331; Nov. 29.
- Lightner, Henry W., assignor to Wilmarth & Morman Company, Grand Rapids, Mich. Drill-holder. No. 1,382,003; June 21; v. 287; p. 430.
- Ligon, Lottie P., Roanoke, Va. Lubricating-bearing. No. 1,369,896; Mar. 1; v. 284; p. 27.
- Lihme, Christian B. (See Gerlach, O., and Lihme.)
- Liken, Clarence L., Enid, Okla. Flagman's lantern. No. 1,392,775; Oct. 4.
- Likley, Henry, & Company. (See Binkley, John T., assignor.)
- Lile, Clarence, Granite City, Ill. Tablet distributing and collecting machine. No. 1,370,695; Mar. 8; v. 284; p. 224.
- Lilienfeld, Leon, Vienna, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making cellulose xanthogenate solutions and product produced. No. 1,379,951; May 24; v. 286; p. 749.
- Liles, Elmer E., Utica, Ill. Attachment for cultivators. No. 1,401,802; Dec. 27.
- Lill, Jacob, Chicago, Ill. Corner-brace. No. 1,392,839; Oct. 4.
- Liljgren, Gunnar O. (See Birkland, E. E., and Liljgren.)
- Liljgren, Gunnar O., Chicago, Ill., assignor to The Viking Corporation, Hastings, Mich. Sprinkler-head. No. 1,376,104; Apr. 26; v. 285; p. 660.
- Lilleberg, Charles L., Chicago, Ill. Switching device. No. 1,374,085; Apr. 5; v. 285; p. 137.
- Lilleberg, Charles L., Chicago, Ill. Switching device. No. 1,374,086; Apr. 5; v. 285; p. 137.
- Lillemoen, William O. (See Streeter, G. J., and Lillemoen.)
- Lillibridge, Curtis C., Hutchinson, Kans. Hot-air stove. No. 1,378,043; May 17; v. 286; p. 427.
- Lillibridge, Curtis C., Hutchinson, Kans. Oil-burner. No. 1,391,641; Sept. 20; v. 290; p. 574.
- Lillibridge, Duane M., St. Charles, Ill. Goal for athletic games. No. 1,387,418; Aug. 9; v. 289; p. 361.
- Lillie, John A., assignor to J. B. Wilkie, Liverpool, England. Preventing fouling and composition therefor. No. 1,392,068; Sept. 27; v. 290; p. 734.
- Lillie, Samuel M., Philadelphia, Pa. Conserving heat in steam-power plants. No. 1,393,800; Oct. 18.
- Limacher, Walter P., Pasadena, Calif. Bracket-holder for automobile-bumpers. No. 1,371,633; Mar. 15; v. 284; p. 468.
- Limacher, Walter P., Pasadena, Calif. Bumper for automobiles. (Reissue.) No. 15,255; Dec. 27.
- Limoges, Laurence L., Sioux City, Iowa. Folding luggage-carrier. No. 1,393,294; Oct. 11.
- Limont, Alexander W., assignor to Bridgeport Brass Company, Bridgeport, Conn. Making socket-caps. No. 1,368,565; Feb. 15; v. 283; p. 434.
- Limont, Alexander W., assignor to Bridgeport Brass Company, Bridgeport, Conn. Sizing metal bands. No. 1,382,734; June 28; v. 287; p. 623.
- Limont, Alexander W., assignor to Bridgeport Brass Company, Bridgeport, Conn. Cap for electric-light sockets. No. 1,396,857; Nov. 15.
- Limpert, Alexander S., Pittsburgh, Pa. Headlight. No. 1,399,973; Dec. 13.
- Limpert, John H., New York, N. Y. Dispensing apparatus. No. 1,387,995; Aug. 16; v. 289; p. 527.
- Linabury, Harry W., assignor of one-half to W. R. Hirst, Indianapolis, Ind. Vehicle-spring. No. 1,368,514; Feb. 15; v. 283; p. 424.
- Linceum, Lucullus G., Chicago, Ill., assignor of one-half to B. Binkowitz, Kansas City, Mo. Tractor attachment for automobiles. No. 1,375,791; Apr. 26; v. 285; p. 599.
- Lincoln, Chester L., *et al.* (See Armstrong, Charles G., assignor.)
- Lincoln Electric Company, The. (See David, Bruce W., assignor.)
- Lincoln, James F., Cleveland, Ohio. Safety charging device for batteries. No. 1,373,621; Apr. 5; v. 285; p. 47.
- Lincoln, Leo B., Chicago, Ill. Electric sadiron. No. 1,378,589; May 17; v. 286; p. 531.
- Lincoln Manufacturing Company. (See Aspinwall, Robert S., assignor.)
- Lincoln Motor Company. (See Little, Thomas J., Jr., assignor.)
- Lincoln Steel and Forge Company. (See Barks, Frank S., assignor.)
- Lincoln, Ulysses M., Miami, Fla. Hinge. No. 1,370,457; Mar. 1; v. 284; p. 133.
- Lind, John, near Trakcan, Idaho. Gate-operating mechanism. No. 1,382,369; June 21; v. 287; p. 499.
- Lind, Otto W., New York, N. Y. Valve-lifter. No. 1,366,573; Jan. 25; v. 282; p. 618.
- Lind, T. W., Company. (See Bangs, Ralph C., assignor.)
- Lind, Theodore E., assignor, by mesne assignments, to Hood Tractor Company, Seattle, Wash. Bumper for motor-vehicles. No. 1,383,470; July 5; v. 288; p. 44.
- Lindahl, Erick P., assignor to Icy-Hot Bottle Company, Cincinnati, Ohio. Method of and apparatus for manufacturing glassware. No. 1,390,626; Sept. 13; v. 290; p. 307.
- Lindahl, Erick P., assignor to Icy-Hot Bottle Company, Cincinnati, Ohio. Chucking mechanism. No. 1,390,627; Sept. 13; v. 290; p. 307.
- Lindamood, Roy S., Galveston, Tex. Amusement device. No. 1,379,454; May 24; v. 286; p. 768.
- Lindauer, William A., El Paso, Tex. Fluid-conditioning apparatus. No. 1,379,831; May 31; v. 286; p. 913.
- Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Co., Sturgis, Mich. Carriage adjustable back. No. 1,387,499; Aug. 16; v. 289; p. 428.
- Lindberg, John F., Hibbing, Minn. Tank for hydrocarbons and lubricating oils. No. 1,364,770; Jan. 4; v. 282; p. 139.
- Lindberg, Elin M., Duluth, Minn. Hair-curler. No. 1,387,785; Aug. 16; v. 289; p. 487.
- Lindberg, Fritz A. (See Gardner, H. C., and Lindberg.)
- Lindback, Haakon P., Minneapolis, Minn. Book-cover cleaner. No. 1,370,657; Mar. 8; v. 284; p. 217.
- Lindberg, Peter A., Mount Pleasant, Utah. Railway-mail-transferring device. No. 1,398,136; Nov. 22.
- Lindblad, Harmon E., Boston, Mass. Change-speed mechanism. No. 1,387,785; Aug. 16; v. 289; p. 487.
- Lindblad, Harmon E., Boston, Mass. Pen-clamp for ruling-machines. No. 1,392,423; Oct. 4.
- Linde, Arne, Macrorie, Saskatchewan, Canada. Wrench. No. 1,389,200; Aug. 30; v. 289; p. 877.
- Lindemann, Max, East St. Louis, Ill., assignor of one-half to E. J. Feiner, St. Louis, Mo. Degerminator and huller. No. 1,364,288; Jan. 4; v. 282; p. 48.
- Lindemann, William G., assignor to Ozone Company of America, Milwaukee, Wis. Combined faucet and switch. No. 1,375,099; Apr. 19; v. 285; p. 436.
- Lindemann, William G., assignor to Ozone Company of America, Milwaukee, Wis. Ozonizer. No. 1,396,222; Nov. 8.
- Lindemuth, Lewis B., New York, N. Y. Manufacture of open-hearth metal. No. 1,385,562; July 26; v. 288; p. 683.
- Lindemuth, Martin E., Elizabethtown, Pa. Caponizing-rack. No. 1,381,717; June 14; v. 287; p. 317.



## Alphabetical list of patentees—Continued.

- Linden, John J., Jersey City, N. J., assignor to B. B. Vander Veer, New York, N. Y. Pie crust-trimming machine. No. 1,384,907; July 19; v. 288; p. 472.
- Linden, John O., Albuquerque, N. Mex. Massage device. No. 1,380,986; June 7; v. 287; p. 127.
- Lindenberg, Frank H., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Treatment of sugarcane and similar materials. No. 1,369,180; Feb. 22; v. 283; p. 592.
- Lindenberg, Frank H., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Centrifugal separator. No. 1,395,193; Oct. 25.
- Lindenfield, William H., Lexington, Tenn. Oil-cup. No. 1,397,838; Nov. 22.
- Lindenmuth, Raymond F., Quakake, Pa. Lock. No. 1,376,951; May 3; v. 286; p. 109.
- Linder, Carson A., *et al.* (See Smith, Jesse R., assignor.)
- Linder, Oscar, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Process of and apparatus for electrolysis. No. 1,371,698; Mar. 15; v. 284; p. 481.
- Linder, Oscar, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Purification of porous or gelatinous materials. No. 1,371,699; Mar. 15; v. 284; p. 481.
- Linder, Peter, Chicago, Ill. Convertible furniture. No. 1,384,327; July 12; v. 288; p. 270.
- Linder, Samuel E., Buckhurst Hill, and R. Lessing, assignors to Hydronyl Syndicate, Limited, London, England. Neutralizing and drying commercial ammonium sulfate. No. 1,377,493; May 10; v. 286; p. 270.
- Linder, Victor, Elko, Minn. Door and gate actuating mechanism. No. 1,391,685; Sept. 27; v. 290; p. 656.
- Linderman, Bert A., Chicago, Ill. Cabinet for domestic lighting plants. No. 1,396,223; Nov. 8.
- Linderman, Charles V. (See Weinberg, A., and Linderman.)
- Linderman, Harry V., assignor to The Ohio Brass Company, Mansfield, Ohio. Manufacturing rail-bonds. No. 1,369,927; Mar. 1; v. 284; p. 33.
- Linderme, Theodore G., Detroit, Mich. Yieldable joint. No. 1,386,265; Aug. 2; v. 289; p. 60.
- Lindgren, Alexis C., Hamilton, Ontario, Canada, assignor, by mesne assignments, to F. Gerlach and A. B. Keller, trustees, Chicago, Ill. Power-lift disk plow. No. 1,387,509; Aug. 16; v. 289; p. 428.
- Lindgren, Alexis C., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Disk plow. No. 1,388,962; Aug. 30; v. 289; p. 829.
- Lindgren, Alexis C., and R. B. Johnston, Hamilton, Ontario, Canada, assignor to F. Gerlach and A. B. Keller, trustees, Chicago, Ill. Power-lift plow. No. 1,394,914; Oct. 25.
- Lindgren, Charles F., Duluth, Minn. Portable power device. No. 1,394,564; Oct. 25.
- Lindgren, John, Lemont, Ill. Wireless control device. No. 1,380,663; June 7; v. 287; p. 64.
- Lindgren, Waldemar L., Chicago, Ill., assignor to The Security Tools Works. Phonograph-drive. No. 1,365,707; Jan. 18; v. 282; p. 404.
- Lindhard, Poul T., Brooklyn, assignor to F. L. Smith & Co., New York, N. Y. Ball-grinding mill. No. 1,368,739; Feb. 15; v. 283; p. 468.
- Lindhe, Eric G., New York, N. Y. Portable radial drills. No. 1,395,194; Oct. 25.
- Lindholm, Arthur C., Springfield, Mass. Power attachment. No. 1,376,952; May 3; v. 286; p. 109.
- Lindholm, Arthur C., Springfield, Mass. Work-holder. No. 1,376,953; May 3; v. 286; p. 109.
- Lindholm, Arthur C., Springfield, Mass. Reseating attachment. No. 1,392,585; Oct. 4.
- Lindholm, Carl T., Davenport, Iowa. Chiropractic table. No. 1,380,487; June 7; v. 287; p. 31.
- Lindholm, Oscar, Chicago, Ill. Phonograph attachment. No. 1,382,679; June 21; v. 287; p. 499.
- Lindley, Alva A., Spokane, Wash. Oil-burner. No. 1,399,218; Dec. 6.
- Lindley, George W., Philadelphia, Pa. Cord fabric. No. 1,374,668; Apr. 12; v. 285; p. 291.
- Lindley, George W., Philadelphia, Pa. Pneumatic tire. No. 1,395,686; Nov. 1.
- Lindley, Lowell F., and A. S. Speer, Chicago, Ill., assignors to The Roofing Patents Company, Buffalo, N. Y. Surfacing-machine for roofing. No. 1,384,534; July 12; v. 288; p. 314.
- Lindley, Stace B., *et al.* (See Gibbons, Arthur J., assignor.)
- Lindman, Konrad W., assignor, by mesne assignments, to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Ball-bearing. No. 1,373,139; Mar. 29; v. 284; p. 857.
- Lindman, Konrad W., Stockholm, assignor, by mesne assignments, to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Ball-holder for ball-bearings. No. 1,395,126; Oct. 25.
- Lindmark, Elmer S., Brooklyn, N. Y. Envelop check-book stub. No. 1,395,687; Nov. 1.
- Lindo, Francis S. (See Graham, L. W. S., and Lindo.)
- Lindquist, Albert V., Alexandria, Minn. Fishline-leader. No. 1,370,696; Mar. 8; v. 284; p. 224.
- Lindstrom, Arthur O., assignor of one-half to G. E. Kohl, Cleveland, Ohio. Broom-bridle. No. 1,400,888; Dec. 20.
- Lindquist, Birger W., assignor to The Vixson Company, Detroit, Mich. Trimming blanks. No. 1,399,132; Dec. 6.
- Lindquist, Carl J., assignor to Submarine Salvage Company, New York, N. Y. Submarine salvaging apparatus. No. 1,370,458; Mar. 1; v. 284; p. 133.
- Lindquist, Carl J., New York, N. Y., assignor of one-half to P. C. Hayes, Toledo, Ohio. Submarine-destroyer. No. 1,376,105; Apr. 26; v. 285; p. 661.
- Lindquist, David E. (See Heiby, C. G., Hill, and Lindquist.)
- Lindquist, Charles A. and E. V., Des Moines, Iowa, assignors to Qupee Hose Supporter Company, Eau Claire, Wis. Hose-supporter. No. 1,392,776; Oct. 4.
- Lindquist, Eric V. (See Lindquist, Charles A. and E. V.)
- Lindquist, David E., *et al.* (See Heiby, C. G., Burkam, Lindquist, Riffin, Allen, and Lau.)
- Lindquist, David E. (See Heiby, C. G., Burkam, Lindquist, Riffin, Allen, and Lau.)
- Lindquist, David L., Hartsdale, and D. C. Larson, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Controller. No. 1,364,389; Jan. 4; v. 282; p. 66.
- Lindquist, David L., Yonkers, N. Y., and F. Hymans, Glen Ridge, N. J., assignors to Otis Elevator Company, Jersey City, N. J. Elevator. (Reissue.) No. 15,125; June 14; v. 287; p. 351.
- Lindquist, David L. (See Davis, E. G., and Lindquist.)
- Lindquist, Erick V., Des Moines, Iowa., assignor to Qupee Hose Supporter Company, Eau Claire, Wis. Hose-supporter. No. 1,375,162; Apr. 19; v. 285; p. 448.
- Lindquist, John N., Marquette, Mich. Lift-grab. No. 1,369,976; Mar. 1; v. 284; p. 42.
- Lindquist, John N., Marquette, Mich. Neck-yoke center. No. 1,375,920; Apr. 26; v. 285; p. 625.
- Lindquist, Otto B., Tarentum, Pa. Conical disk and making same. No. 1,386,182; Aug. 2; v. 289; p. 44.
- Lindros, Hjalmer C., Jamestown, N. Y. Trolley. No. 1,365,518; Jan. 11; v. 282; p. 327.
- Lindsay, Charles W., Houston, Tex. Single-trigger mechanism for double-barrel guns. No. 1,375,710; Apr. 26; v. 285; p. 585.
- Lindsay, Franklin G., Dunbar, assignor to Mardorff Printing Company, Inc., Brownsville, Pa. Store coupon-check. No. 1,379,455; May 24; v. 286; p. 768.
- Lindsay, George W., assignor to The Denver Fire Clay Company, Denver, Colo. Combination-burner. No. 1,375,248; May 17; v. 286; p. 466.
- Lindsay, Hamilton, Willoughby, Ohio. Conveying device for locomotive-stokers. No. 1,386,416; Aug. 2; v. 289; p. 89.
- Lindsay, Hamilton, assignor to The Lindsay Wire Weaving Company, Cleveland, Ohio. Lay-retaining device. No. 1,365,417; Jan. 11; v. 282; p. 308.
- Lindsay, Hamilton, assignor to The Lindsay Wire Weaving Company, Cleveland, Ohio. Shuttle-throwing device. No. 1,380,224; May 31; v. 286; p. 987.
- Lindsay, Harvey B., Oakland, Calif. Hood-latch. No. 1,367,822; Feb. 8; v. 283; p. 243.
- Lindsay, Harvey B., Oakland, Calif. Can for liquids. No. 1,374,932; Apr. 19; v. 285; p. 403.
- Lindsay, Harvey B., Oakland, Calif. Pump. No. 1,377,210; May 10; v. 286; p. 214.
- Lindsay, John, assignor of one-third to W. H. E. Brown and one-third to J. Bell, Lurgan, Ireland. Thread-cutting and thread-end-holding device for embroidery sewing-machines. No. 1,373,747; Apr. 5; v. 285; p. 71.
- Lindsay, Kenneth, Cedar Rapids, Iowa. Saw-holder. No. 1,380,814; June 7; v. 287; p. 94.
- Lindsay, Leroy J., Seymour, assignor to C. W. Bryant, Centerville, Iowa. Take-up and tension attachment for automobile steering devices. No. 1,380,724; June 7; v. 287; p. 76.
- Lindsay Light Company. (See McCoy, Herbert N., assignor.)
- Lindsay, Lycurgus, and E. M. Davids, Los Angeles, Calif. Pneumatic dust-separator. No. 1,380,322; May 31; v. 286; p. 1006.
- Lindsay, Robert J., Philadelphia, Pa. Bedclothes-holder. No. 1,401,340; Dec. 27.
- Lindsay, William G., Newark, N. J., assignor to The Celluloid Company. Non-inflammable cellulose compound. No. 1,386,576; Aug. 2; v. 289; p. 119.
- Lindsay, William G., Newark, N. J., assignor to The Celluloid Company. Plastic compound and process. No. 1,388,472; Aug. 23; v. 289; p. 679.
- Lindsay Wire Weaving Company, The. (See Lindsay, Hamilton, assignor.)
- Lindsey, Clinton, Salem, and E. C. Waddington, Woodstown, N. J. Combined cutter and scraper. No. 1,365,927; Jan. 18; v. 282; p. 448.
- Lindsey, Cyrus E. (See Bradley, P. P., and Lindsey.)
- Lindsey, Ernest E., San Francisco, Calif. Means for depositing dough. No. 1,381,421; June 14; v. 287; p. 261.
- Lindsey, Ernest E., San Francisco, Calif., assignor to Bake-Rite Oven Manufacturing Company. Baking-oven. No. 1,391,258; Sept. 20; v. 290; p. 497.
- Lindsey, Ernest E., San Francisco, Calif., assignor to Bake-Rite Oven Manufacturing Company. Sectional baking-oven. No. 1,391,259; Sept. 20; v. 290; p. 497.



- Lindsey, George C., Los Angeles, Calif. Tuning-peg and mounting for musical instruments. No. 1,375,304; Apr. 19; v. 285; p. 476.
- Lindsey, Harry W., Jr. (See Green, C. F., and Lindsey.)
- Lindsey, Harry W., Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Spring suspension for vehicles. No. 1,390,363; Sept. 13; v. 290; p. 252.
- Lindsey, John H., Sr., Otsego, assignor to Hughes Steel Equipment Co., Allegan, Mich. Bench-pedestal. No. 1,401,162; Dec. 27.
- Lindsey, Kieffer, Rome, Ga. Gang-plow. No. 1,375,054; Apr. 19; v. 285; p. 428.
- Lindsey, Philip T. (See Horst, S. R., and Lindsey.)
- Lindsey, Willoughby B., Rosslyn, Va., assignor of one-half to A. M. Wilson, Washington, D. C. Indicator. No. 1,372,522; Mar. 22; v. 284; p. 694.
- Lindstaedt, Otto R., Indianapolis, Ind. Display-rack for bed mattresses and springs. No. 1,391,484; Sept. 20; v. 290; p. 542.
- Lindstrom, Arthur, South Bellingham, Wash. Nail-set or punch. No. 1,378,698; May 17; v. 286; p. 553.
- Lindstrom, Frank L., Bridgeport, Conn. Spinning-top. No. 1,368,039; Feb. 8; v. 283; p. 283.
- Lindstrom, Frank L., Bridgeport, Conn. Spinning-top. No. 1,368,040; Feb. 8; v. 283; p. 283.
- Lindstrom, Carl T., assignor to J. T. Lindstrom, Allentown, Pa. Steam-separator. No. 1,382,100; June 21; v. 287; p. 448.
- Lindstrom, John T. (See Lindstrom, Carl T., assignor.)
- Line, George F., Muncie, Ind. Control for motor-vehicles. No. 1,365,112; Jan. 11; v. 282; p. 249.
- Linebarger, Charles E., Chicago, Ill. Thermoscope. No. 1,374,857; Apr. 12; v. 285; p. 327.
- Linebarger, Charles E., Chicago, Ill. Method and apparatus for making small balls or pellets. No. 1,393,383; Oct. 11.
- Linebaugh, Edward R., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Sheet-registering devices. No. 1,399,064; Dec. 6.
- Linendoll, Asa E., Norwalk, Ohio. Attaching universal joint spiders to tubular propeller-shafts. No. 1,375,552; Apr. 26; v. 285; p. 611.
- Linett, Henry A., Brooklyn, N. Y. Faucet. No. 1,368,171; Feb. 8; v. 283; p. 809.
- Ling, Francis E. (See Reif, Joseph, assignor.)
- Lingard, John S., Laporte, Ind. Steering-roller for tractors. No. 1,376,286; Apr. 26; v. 285; p. 695.
- Linhoff, William, Pasadena, Calif. Lawn-weeder. No. 1,381,569; June 14; v. 287; p. 288.
- Lininger, Herbert K., Kansas City, Mo. Grain-elevator. No. 1,381,570; June 14; v. 287; p. 289.
- Link, Adolf P., Brooklyn, N. Y. Burner. No. 1,365,255; Jan. 11; v. 282; p. 277.
- Link-Belt Company, *et al.* (See Budd, Thomas D., assignor.)
- Link-Belt Company. (See Dull, Raymond W., assignor.)
- Link-Belt Company. (See Hetzel, Frederic V., assignor.)
- Link-Belt Company. (See Petersen, John H. D., assignor.)
- Link-Belt Company. (See Pratt, Howell D., assignor.)
- Link-Belt Company. (See Pratt, Howell D., assignor.) (Reissue.)
- Link-Belt Company. (See Rapp, A. G. J., and Ewell, assignors.)
- Link-Belt Company. (See Rapp, Axel G. J., assignor.)
- Link, George N., assignor to The American Laundry Machinery Company, Norwood, Ohio. Work-holder for small presses. No. 1,374,304; Apr. 12; v. 285; p. 220.
- Link, George N. (See Benjamin, D. H., and Link.)
- Link, George N. (See Braley, C. L., and Link.)
- Link, George N. (See Waream, C. E., and Link.)
- Linn, John, *et al.* (See Harp, William I., assignor.)
- Link, Maximilian W., assignor to Crane Company, Chicago, Ill. Magnetically-operated valve. No. 1,392,952; Oct. 11.
- Link, Philipp, Newark, N. J. Stopper. No. 1,364,998; Jan. 11; v. 282; p. 228.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation. Internal-combustion engine. No. 1,393,295; Oct. 11.
- Linley, Archie J., Lodi, Calif. Railway-switch-throwing device. No. 1,398,332; Nov. 29.
- Linnett, Edgar B., Newark, assignor to Linnett & Schwarz, Irvington, N. J. Trunk-bracket. No. 1,368,737; Feb. 15; v. 283; p. 468.
- Linnett & Schwarz. (See Linnett, Edgar B., assignor.)
- Linograph Company, The. (See Petersen, Hans, assignor.)
- Linotype and Machinery Limited. (See Billington, John E., assignor.)
- Linotype and Machinery Limited. (See Drake, Tom, assignor.)
- Linotype and Machinery Limited. (See Ellis, Herbert, assignor.)
- Linguist, William, Cleveland, Ohio. Auto-body. No. 1,398,102; Nov. 22.
- Linstadt, Otto, Madison, Nebr. Valve for water-tanks. No. 1,393,384; Oct. 11.
- Linscott, Otis K., Tekoa, Wash. Pocket check-protector. No. 1,398,235; Nov. 29.
- Linstrom, Frank O., Watertown, and P. A., Castlewood, S. D. Headlight for vehicles. No. 1,392,424; Oct. 4.
- Linstrom, Peter A. (See Linstrom, Frank O. and P. A.)
- Linton, Chester A., Kansas City, Mo. Washing-machine. No. 1,383,471; July 5; v. 288; p. 44.
- Lintz & Eckhardt. (See Unger, Hugo, assignor.)
- Linville, Josiah, Bethany, Mo. Door-opening mechanism. No. 1,379,456; May 24; v. 286; p. 768.
- Linville, Arthur P. and C. E., Berkeley, Calif. Grease-retainer. No. 1,382,991; June 28; v. 287; p. 671.
- Linville, Arthur P. and C. E., Berkeley, Calif. Shoe-scraper. No. 1,389,201; Aug. 30; v. 289; p. 877.
- Linville, Clarence P., South Amboy, N. J., assignor to American Smelting & Refining Co. Purifying arsenic trioxid. No. 1,372,443; Mar. 22; v. 284; p. 679.
- Linville, Clarence E. (See Linville, Arthur P. and C. E.)
- Linz, Arthur, assignor to Ultra-Chemical Corporation, New York, N. Y. Lake. No. 1,369,252; Feb. 22; v. 283; p. 607.
- Linz, Arthur, New York, N. Y., assignor to The Chemical Foundation Incorporated. Producing tungsten lakes. No. 1,378,882; May 24; v. 286; p. 660.
- Linz, William E., Jr., Allenton, Mo. Animal-trap. No. 1,370,327; Mar. 1; v. 284; p. 108.
- Lion, Auguste A., *et al.* (See Beaudot, Georges M., assignor.)
- Lipar, Frank, Trommald, Minn. Cuspidor. No. 1,366,267; Jan. 18; v. 282; p. 514.
- Lipcott, Fred L., assignor to International Motor Company, New York, N. Y. Coupling. No. 1,382,657; June 28; v. 287; p. 608.
- Lipe, Charles W., San Jose, Calif. Counterboring-tool. No. 1,387,652; Aug. 16; v. 289; p. 459.
- Lipe, George O., *et al.* (See Johnson, Charles H., assignor.)
- Lipe, Willard C., Syracuse, N. Y., and L. H. Kirk, Havre de Grace, Md. Railway motor-car. No. 1,393,146; Oct. 11.
- Lipkin, Max, Boston, Mass. Button. No. 1,367,555; Feb. 8; v. 283; p. 191.
- Lippoh, I. J., *et al.* (See Bennett, Harry J., assignor.)
- Lipp, Albert E., Philadelphia, Pa. Camera. No. 1,388,870; Aug. 30; v. 289; p. 811.
- Lipp, Elmer L., *et al.* (See Stephens, Richard M., assignor.)
- Lipps, Emory J., Fountain Hill borough, Pa. Doubling-machine. No. 1,401,618; Dec. 27.
- Lipps, Evrah C., assignor to Packard Motor Car Company, Detroit, Mich. Metal tool. No. 1,399,219; Dec. 6.
- Lippen, Jonathan K., Battle Creek, Mich., assignor, by mesne assignments, to Postum Cereal Company, Inc., Wilmington, Del. Corn-flakes and making same. No. 1,364,634; Jan. 4; v. 282; p. 113.
- Lippert, Samuel, East Cleveland, Ohio. Thermostatic valve. No. 1,376,818; May 3; v. 286; p. 83.
- Lippincott, Heulings, *et al.*, receivers. (See Laussucq, Henri P. L., assignor.)
- Lippincott, John W., Little Rock, Ark. Portable refrigerant-container. No. 1,380,987; June 7; v. 287; p. 128.
- Lippincott, John W., Little Rock, Ark. Ventilator. No. 1,391,781; Sept. 27; v. 290; p. 675.
- Lippitt, Elihu and S. W., Cleveland, Ohio. Reversing mechanism. No. 1,387,855; Aug. 16; v. 289; p. 500.
- Lippitt, Elihu, Lakewood, Ohio, assignor, by direct and mesne assignments, of one-half to H. J. Huntington and one-third to S. W. Lippitt. Yarn-guide mechanism for knitting-machines. No. 1,398,103; Nov. 22.
- Lippitt, Stephen W., *et al.* (See Lippitt, Elihu, assignor.)
- Lippitt, Stephen W. (See Lippitt, Elihu and S. W.)
- Lippitz, Wilhelm, Jauer, Germany. Potato-planter. No. 1,389,060; Aug. 30; v. 289; p. 849.
- Lippmann, Julius D., assignor to E. Weinheim, New York, N. Y. Micrometer-adjuster for embossing-presses. No. 1,390,799; Sept. 13; v. 290; p. 341.
- Lippold, Carl T., Los Angeles, Calif. Tire-blow-out clamp and emergency mud-hook. No. 1,392,425; Oct. 4.
- Lippoldt, Frank F., Kinsley, Kans. Auxiliary air-inlet for engines. No. 1,370,459; Mar. 1; v. 284; p. 134.
- Lipsius, Samuel, New York, N. Y. Machine for producing raised printing. No. 1,391,743; Sept. 27; v. 290; p. 668.
- Lipska, Edward, Fennimore, Wis. Gate. No. 1,398,870; Nov. 29.
- Liquid Carbonic Company. (See Eckert, Adolph, assignor.)
- Liquid Cleaning Stimulant Co. (See Bloomfield, Henry R., assignor.)
- Liquid Malted Milk Company. (See Melchoir, Claude B., assignor.)
- Liska, John W., Chicago, Ill. Liquid-mixing device. No. 1,385,179; July 19; v. 288; p. 529.
- Lisnore, Mitchell. (See Altsitzer, Isadore L., assignor.)
- Lisowski, Maryan L., Cranford, N. J., assignor to M. L. Patents Corporation, New York, N. Y. Method and apparatus for house construction. No. 1,383,732; July 5; v. 288; p. 99.
- Lissauer, Adolph W., New York, N. Y. Air-humidifier. No. 1,377,594; May 10; v. 286; p. 288.
- Lissman, Ralph A., New York, N. Y. Dispenser. No. 1,368,270; Feb. 15; v. 283; p. 376.
- Lissman, Marcel, Sacramento, Calif. Speed-reduction gearing. No. 1,376,954; May 3; v. 286; p. 110.
- List, Francis X., assignor to National Card Mounting Company, New York, N. Y. Display-folder. No. 1,396,224; Nov. 8.
- List, Franz, New York, N. Y., assignor to C. A. Blades, Arlington, N. J. Merchandise-display box. No. 1,378,363; May 17; v. 286; p. 487.
- List, John, Lake George, Mich. Space-band cleaner. No. 1,377,357; May 10; v. 286; p. 244.



*Alphabetical list of patentees—Continued.*

- Listo Pencil Company. (See Wehn, Charles E., assignor.)  
 Litchfield, Isaac W., Washington, D. C. Selective card-index system. No. 1,382,004; June 21; v. 287; p. 430.  
 Litchfield, Isaac W., Newtonville, Mass. Water-excluding device for bathing-caps. No. 1,390,628; Sept. 13; v. 290; p. 308.  
 Litchfield, Lee J., Elsie, Mich. Spring-link. No. 1,397,431; Nov. 15.  
 Little, Thomas J., Jr., assignor to Lincoln Motor Company, Detroit, Mich. Fuel-preheating device for internal-combustion engines. No. 1,388,473; Aug. 23; v. 289; p. 679.  
 Littell, F. J., Machine Co. (See Swangren, Edwin V. and V., assignors.)  
 Little, A. E., Company. (See Little, Alexander E., assignor.)  
 Little, Alexander E., assignor to A. E. Little Company, Lynn, Mass. Shoe. No. 1,399,436; Dec. 6.  
 Little, Arthur D., Incorporated. (See Scott, Douglas E., assignor.)  
 Little, Arthur L., and G. W. Verow, Brewer, Me., assignors to Eastern Manufacturing Company, Boston, Mass. Paper-feeding means for size-tubs. No. 1,390,997; Sept. 20; v. 290; p. 443.  
 Little, Bert A., assignor to one-half to J. W. Dodge, Tulsa, Okla. Electric handlamp. No. 1,394,101; Oct. 18.  
 Little, Bert M., Hamilton, Ontario, Canada. Attachment for internal-combustion engines. No. 1,394,747; Oct. 25.  
 Little, C. R., et al. (See Box, John V., assignor.)  
 Little, Charles C., San Jose, Calif. Carbureter. No. 1,399,353; Dec. 6.  
 Little, Charles H., Chicago, Ill. Rail-joint. No. 1,390,914; Sept. 13; v. 290; p. 564.  
 Little, Frederick B., assignor to J. C. Deagan, Inc., Chicago, Ill. Chime-operating apparatus. No. 1,398,972; Dec. 6.  
 Little, Harry E. (See Campbell, D. M., and Little.)  
 Little, Horace M. (See Katz, Nahum E., assignor.)  
 Little, Ira B., Indianapolis, Ind. Storage-battery-grid mold and molding process. No. 1,368,445; Feb. 15; v. 283; p. 410.  
 Little, Ivo C., Barrow-in-Furness, and E. E. Crook, Great Yarmouth, England. Aircraft. No. 1,377,421; May 10; v. 286; p. 256.  
 Little, Lucius F., Owensboro, Ky. Apparatus for making flour and meal. No. 1,399,437; Dec. 6.  
 Little, M. S., Manufacturing Company, The. (See Flynn, Michael H., assignor.)  
 Little, Mary L., Long Beach, Calif. Ship construction. No. 1,372,175; Mar. 22; v. 284; p. 628.  
 Little, Robert H., assignor to U. S. Sanitary Specialties Corporation, Chicago, Ill. Liquid-soap dispenser. No. 1,370,460; Mar. 1; v. 284; p. 134.  
 Little, Robert P., Columbus, Ohio. Window-sash fastener. No. 1,395,047; Oct. 25.  
 Little, William F., Yonkers, and C. H. Sharp, White Plains, N. Y. Photometer. No. 1,396,963; Nov. 15.  
 Littlefield, Augustine F. (See Farrington, George C., assignor.)  
 Littlefield, Arlon, Cranston, assignor to New England Butt Company, Providence, R. I. Truck. No. 1,376,955; May 3; v. 286; p. 110.  
 Littlefield, Arlon, Cranston, assignor to New England Butt Company, Providence, R. I. Braiding-machine. No. 1,389,672; Sept. 6; v. 290; p. 23.  
 Littlefield, Augustine F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole. No. 1,382,658; June 28; v. 287; p. 608.  
 Littlefield, Thomas, Exira, Iowa. Railway-car wheels and axle. No. 1,386,124; Aug. 2; v. 289; p. 32.  
 Littleford, George, Fort Thomas, Ky. Feeding mechanism. No. 1,390,800; Sept. 13; v. 290; p. 341.  
 Littlejohn, Dana M., Pana, Ill. Surgical needle. No. 1,377,359; May 10; v. 286; p. 244.  
 Littlejohn, Lonzo B., Wortham, Tex. Four-wheel drive. No. 1,366,536; Jan. 25; v. 282; p. 611.  
 Littleton, Clay, Hopewell, Va. Treating and recovery for reuse oils, resins, gums, &c., which have been hardened. No. 1,398,438; Nov. 29.  
 Littman Loxair Valve Corporation. (See Littman, Zeno, assignor.)  
 Littman, Zeno, New York, N. Y., assignor to Littman Loxair Valve Corporation. Valve. No. 1,397,737; Nov. 22.  
 Littman, Zeno, New York, N. Y., assignor to Littman Loxair Valve Corporation. Valve. No. 1,401,619; Dec. 27.  
 Litvak, Harry, New York, N. Y. Spring-mattress support. No. 1,394,849; Oct. 25.  
 Litvak, Harry, New York, N. Y. Bed-spring. No. 1,399,501; Dec. 6.  
 Litvak, Harry, New York, N. Y. Combined bed-spring frame and bedstead. No. 1,401,163; Dec. 27.  
 Litvak, Harry, Hudson, N. Y. Folding bed. No. 1,401,714; Dec. 27.  
 Litzenberg, William R., Portland, Oreg. Fire-bowl for furnaces and the like. No. 1,364,444; Jan. 4; v. 282; p. 77.  
 Litzenberg, William R., Pasadena, assignor to W. E. Smith, Los Angeles, Calif. Automobile-wheel chock. No. 1,367,514; Feb. 1; v. 283; p. 126.  
 Lively, Louis P., Bonham, Tex. Bagging-cutter. No. 1,386,940; Aug. 9; v. 289; p. 266.  
 Livermore, Homer F., Boston, Mass. Footrest for automobiles. No. 1,366,737; Jan. 25; v. 282; p. 651.  
 Livergood, Gerald R., assignor to one-half to C. Snell, Houston, Tex. Pipe-engaging slip for rotaries. No. 1,381,074; June 7; v. 287; p. 144.  
 Liversidge, Horace F., Bala, Pa. Switch-lock. No. 1,387,787; Aug. 16; v. 289; p. 487.  
 Livesay, Clyde C. (See Luckett, J. S., and Livesay.)  
 Livezey, Albert, Grinnell, Iowa, by J. Ford, guardian. Rat-trap. No. 1,399,630; Dec. 6.  
 Livings, James A., Spring, Tex. Spring-wheel. No. 1,397,839; Nov. 22.  
 Livingston, D. M., New York, N. Y. Making cellular elements for radiators or the like. No. 1,377,494; May 10; v. 286; p. 270.  
 Livingston, Hall, Auburn, Calif. Portable stove for orchardists. No. 1,387,788; Aug. 16; v. 289; p. 487.  
 Livingston, John G. (See Newton, William J., assignor.)  
 Livingston, Robert L., Williamsport, Pa. Dividers. No. 1,398,871; Nov. 29.  
 Livingston, Stanley D., assignor to The Connecticut Telephone & Electric Company, Incorporated, Meriden, Conn. Induction-coil. No. 1,370,502; Mar. 1; v. 284; p. 142.  
 Livingston, Troy R., assignor to Muncie Oil Engine Company, Muncie, Ind. Reverse clutch mechanism. No. 1,372,759; Mar. 29; v. 284; p. 781.  
 Lizak, August S., assignor to Kentowski & Company, Chicago, Ill. Wrench. No. 1,385,180; July 19; v. 288; p. 529.  
 Lizounoff, Vasil, assignor to Martin A. Rosanoff, Pittsburgh, Pa. Operation of blast furnaces. No. 1,400,963; Dec. 20.  
 Ljung, John, Alexandria, Minn. Spring suspension for vehicles. No. 1,398,104; Nov. 22.  
 Ljungström, F., Brevik, I. Broberg, Skarsåtrå, and E. O. Eriksson, Sweden, assignors to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Locomotive and similar vehicle. No. 1,365,256; Jan. 11; v. 282; p. 277.  
 Ljungström, Fredrik Brevik, Lidingön, Sweden, assignor to Aktiebolaget Ljungströms Angturbin, Arsenalsgaten 2, Stockholm, Sweden. Locomotive and similar vehicle. No. 1,365,595; Jan. 11; v. 282; p. 343.  
 Ljungström, Fredrik, Brevik, Lidingön, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Arrangement for forced lubrication for locomotives and similar vehicles. No. 1,368,948; Feb. 15; v. 283; p. 508.  
 Ljungström, Fredrik, Brevik, Lidingön, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Regulating the air circulation through air-cooled locomotive-condensers. No. 1,371,178; Mar. 8; v. 284; p. 315.  
 Ljungström, Fredrik, Brevik, Lidingön, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Gear-cutting machine. No. 1,374,460; Apr. 12; v. 285; p. 251.  
 Ljungström, Fredrik, Brevik, Lidingön, Sweden. Sailboat-rigging. No. 1,375,400; Apr. 19; v. 285; p. 493.  
 Ljungström, Fredrik, Brevik, Lidingön, Sweden, assignor to Aktiebolaget Ljungströms Angturbin, Skarsåtrå, Sweden. Dashpot. No. 1,386,879; Aug. 9; v. 289; p. 254.  
 Ljungstrom, Fredrik, Lidingon-Brevik, I. Broberg, Tallhyden, Skarsåtrå, and E. O. Eriksson, Ormbunken, Brevik, Lidingön, assignors to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Reversing device for toothed gearing. No. 1,388,351; Aug. 23; v. 289; p. 655.  
 Ljungström, Fredrik, Brevik, Lidingön, assignor to Aktiebolaget Ljungstrom Angturbin, Stockholm, Sweden. Air-cooled locomotive-condenser. No. 1,392,511; Oct. 4.  
 Ljungström, Fredrik, Brevik, Lidingön, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Air-pump for condensers. No. 1,394,748; Oct. 25.  
 Ljungström, Fredrik, Brevik, Lidingön, assignor to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Cooling element. No. 1,401,482; Dec. 27.  
 Lewellyn, Thomas, Jr., Pittsburgh, Pa. Rolling round metal bars to eliminate laps, seams, and scale. No. 1,381,572; June 14; v. 287; p. 289.  
 Lloyd, Arthur H., Coventry, England. Lathe. No. 1,398,731; Nov. 29.  
 Lloyd, Converse W., New York, N. Y., assignor to L. Lloyd, Lincoln, Nebr. Collapsible toothbrush. No. 1,378,044; May 17; v. 286; p. 427.  
 Lloyd, Edwin C. J., Jeannette, Pa. Box and attachment therefor. No. 1,373,622; Apr. 5; v. 285; p. 47.  
 Lloyd, Frank L., Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City. Packaging-machine. No. 1,372,030; Mar. 22; v. 284; p. 600.  
 Lloyd, Frederic, assignor to Dunford and Elliott (Sheffield) Limited, Sheffield, England. Manufacture of hollow metal rods, bars, and the like. No. 1,364,565; Jan. 4; v. 282; p. 100.  
 Lloyd, Guy E., Banstead, England. Means of handling, sorting, and distributing parcels, bales, and loads of goods, and the like. No. 1,380,988; June 7; v. 287; p. 128.  
 Lloyd, Joseph C. W., Alperston, England. Means for controlling admission and exhaust in double-acting explosion-engines. No. 1,388,352; Aug. 23; v. 289; p. 655.  
 Lloyd, L. Lynn. (See Lloyd, Converse W., assignor.)



*Alphabetical list of patentees—Continued.*

- Lloyd, Lemuel, assignor to M. R. Elkin, New York, N. Y. Hose-clamp. No. 1,386,343; Aug. 2; v. 289; p. 76.
- Lloyd, Marshall B., Menominee, Mich., assignor, by mesne assignments, to Heywood-Wakefield Company, Boston, Mass. Reed-weaving machine. No. 1,395,964; Nov. 1.
- Lloyd, Richard L., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Treating ores. No. 1,378,699; May 17; v. 286; p. 553.
- Lloyd, Richard L., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Treatment of lixivia-tion-residue zinc. No. 1,378,822; May 17; v. 286; p. 576.
- Lloyd, Robert R., assignor of one-half to J. Griffin, Des Moines, Iowa. Puncture-proof inner tube. No. 1,392,894; Oct. 4.
- Lloyd, William, Hazelton, assignor to Coxie Traveling Grate Company, Port Carbon, Pa. Traveling grate. No. 1,368,172; Feb. 8; v. 283; p. 309.
- Lloyd, William, Hazelton, assignor to Coxie Traveling Grate Company, Port Carbon, Pa. Traveling grate. No. 1,385,876; July 26; v. 288; p. 746.
- Lloyd, William, Hazelton, assignor to Coxie Traveling Grate Company, Port Carbon, Pa. Furnace. No. 1,394,421; Oct. 18.
- Lloyd, William, Hazelton, assignor to Coxie Traveling Grate Company, Port Carbon, Pa. Furnace-hopper. No. 1,396,715; Nov. 8.
- Lobb, Frank H., Millville, N. J., assignor to United Bottle Machinery Co., New York, N. Y. Mechanism for cutting off molten glass. No. 1,388,654; Aug. 23; v. 289; p. 714.
- Lobeck, Oskar, Leipzig, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Process and apparatus for sterilizing milk and other liquids. No. 1,369,345; Feb. 22; v. 283; p. 625.
- Lohl, Frederick, Middleboro, Mass. Manicure instrument. No. 1,370,461; Mar. 1; v. 284; p. 134.
- Lo Bue, George. (See Bonaccorso, Orazio, assignor.)
- Locher, Felix M., Visalia, Calif. Windshield attachment. No. 1,371,496; Mar. 15; v. 284; p. 442.
- Locher, Felix M., Visalia, Calif. Culinary implement. No. 1,376,346; Apr. 26; v. 285; p. 706.
- Lochhead, Elmer C., and Lester P. Brewer, Effingham, Ill. Attachment for machines for sewing looped fabrics. No. 1,389,520; Aug. 30; v. 289; p. 940.
- Lochman, John J., New York, N. Y. Razor-blade holder. No. 1,367,611; Feb. 8; v. 283; p. 202.
- Lochner, Albert T., assignor to Wodack Electric Tool Corporation, Chicago, Ill. Brush-holder. No. 1,395,440; Nov. 1.
- Lochow, Curt F., Seattle, Wash. Dish-washing machine. No. 1,397,767; Nov. 22.
- Lochrane, Harold M., Fort Wayne, Ind. Engine. No. 1,384,200; July 12; v. 288; p. 244.
- Lockard, Alonzo, Massillon, Ohio. Grain-sieve. No. 1,381,718; June 14; v. 287; p. 317.
- Locke, Albert R., Chicago, Ill. Lighting-fixture. No. 1,396,936; Nov. 15.
- Locke, Charles E., Haverhill, Mass. Shoe-rack. No. 1,374,592; Apr. 12; v. 285; p. 276.
- Locke, Guyon, Boston, Mass. Apparatus for converting vibrations. No. 1,370,462; Mar. 1; v. 284; p. 134.
- Locke, Joseph A. (See Hathaway, Chester S., assignor.)
- Locker, John B., St. Louis, Mo., assignor of one-half to J. B. Crawford. Submarine boat. No. 1,388,730; Aug. 23; v. 289; p. 729.
- Lockett, George H. B., Gisborne, New Zealand. Artificial tooth. No. 1,398,560; Nov. 29.
- Lockett, Landon J., Brenham, Tex. Method and composition for reclaiming gummer and linter files. No. 1,372,803; Mar. 22; v. 284; p. 653.
- Lockey, Henry C. (See Fitzgerald, G. M., and Lockey.)
- Lockhart, George, New York, N. Y. Automobile-signal. No. 1,389,673; Sept. 6; v. 290; p. 23.
- Lockhart, George L., St. Paul, assignor to L. P. T. Specialty Company, Minneapolis, Minn. Gymnasium-light. No. 1,391,550; Sept. 20; v. 290; p. 556.
- Lockhart, Howard, Falls City, assignor to E. R. Hays and R. A. Heacock, Falls City, Nebr. Heater. No. 1,387,856; Aug. 16; v. 289; p. 501.
- Lockhart, James, assignor to The Lakewood Engineering Company, Lakewood, Ohio. Locking device for dumping-hoppers. No. 1,375,462; Apr. 19; v. 285; p. 505.
- Lockhart, Luther B., Atlanta, Ga. Composition of matter for lubricating internal-combustion engines. No. 1,369,678; Feb. 22; v. 283; p. 690.
- Lockman, Charles D., et al. (See Postel, Arthur F. and C. J. R., assignors.)
- Lockman, Herbert T. (See Knapp, W. C., and Lockman.)
- Lockwood, Albert A., New Haven, Conn. Bottle-holder. No. 1,369,928; Mar. 1; v. 284; p. 33.
- Lockwood, Charles S., Newark, assignor to Hyatt Roller Bearing Company, Harrison, N. J. Roller bearing cage. No. 1,365,596; Jan. 11; v. 282; p. 343.
- Lockwood, Charles S., Newark, N. J., assignor to Hyatt Roller Bearing Division, United Motors Corporation, Harrison, N. J. Tie-bar for roller-bearing cages. No. 1,389,313; Aug. 30; v. 289; p. 900.
- Lockwood, Nelson A. (See Carrick, Everett C., assignor.)
- Lockwood, Nelson A., Ogden, Utah. Filter-press equipment. No. 1,390,531; Sept. 13; v. 290; p. 287.
- Lockwood, Ora M., Buffalo, N. Y. Resilient tire. No. 1,360,696; Jan. 25; v. 282; p. 642.
- Lockwood, Paul M., Kansas City, Mo. Slip-on cover. No. 1,384,908; July 19; v. 288; p. 472.
- Lockwood, William F., B. H. Scott, and W. G. Royal, Hollis, Okla. Cotton-harvester. No. 1,384,265; July 12; v. 288; p. 258.
- Lockyer, John C. (See Carroll, T., and Lockyer.)
- Lockyer, Robert H., San Francisco, Calif. Faucet. No. 1,393,555; Oct. 11.
- Locomobile Company, The. (See Alborn, Frans G., assignor.)
- Locomobile Company, The. (See Cowles, Thomas L., assignor.)
- Locomobile Company, The. (See Gronquist, Carl G., assignor.)
- Locomobile Company, The. (See Riker, Andrew L., assignor.)
- Locomobile Company, The. (See Roos, Delmar G., assignor.)
- Locomobile Company, The. (See Rosner, Adolph, assignor.)
- Locomobile Company, The. (See Wimblad, Nicklas, assignor.)
- Locomobile Tender Frame Company. (See Westlake, Charles T., assignor.)
- Locomotive Feed Water Heater Company. (See Averill, Earl A., assignor.)
- Locomotive Pulverized Fuel Company. (See Muhlfield, John E., assignor.)
- Locomotive Stoker Company. (See Lower, Nathan M., assignor.)
- Locomotive Superheater Company. (See Broido, Benjamin, assignor.)
- Locomotive Superheater Company. (See True, Charles H., assignor.)
- Locomotive Tender Frame Company. (See Westlake, Charles T., assignor.)
- Locorato, Frank, Brookline, N. Y. Candy-cutter. No. 1,370,027; Mar. 1; v. 284; p. 51.
- Locouson, George H., Philadelphia, Pa. Flying-machine. No. 1,387,501; Aug. 16; v. 289; p. 429.
- Lodato, Joseph, Ogden, Utah. Ship-salvaging device. No. 1,375,055; Apr. 19; v. 285; p. 428.
- Loder, Charles C., Cincinnati, Ohio. Automobile signal-controlling mechanism. No. 1,389,366; Aug. 30; v. 289; p. 910.
- Lodge, James J., New York, N. Y. Electrical protective device. No. 1,399,502; Dec. 6.
- Loeb, Henry, Memphis, Tenn. Electrolyzing-vat. No. 1,372,176; Mar. 22; v. 284; p. 628.
- Loeb, Henry, New York, N. Y. Fumigator. No. 1,386,125; Aug. 2; v. 289; p. 32.
- Loebell, Henry O. (See Griswold, J. W., and Loebell.)
- Loebker, Albert F., Knoxville, Tenn. Spring-motor. No. 1,389,953; Sept. 6; v. 290; p. 80.
- Loeck, Arthur G., Campbellsport, Wis. Hanger apparatus for blower-pipes when filling silos. No. 1,400,753; Dec. 20.
- Loeffelhardt, Charles, Los Angeles, Calif. Plastic composition and making the same. No. 1,368,949; Feb. 15; v. 283; p. 508.
- Loeffler, Christian, assignor to Blodgett Engineering and Tool Company, Detroit, Mich. Sine-bar fixture. No. 1,366,396; Jan. 25; v. 282; p. 582.
- Loeffler, Fred W., Irondequoit, N. Y., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,387,419; Aug. 9; v. 289; p. 361.
- Loeffler, Joseph E., St. Louis, Mo. Lifting and swinging support for railway motor-cars. No. 1,382,832; July 5; v. 288; p. 119.
- Loeffler, Joseph E., St. Louis, Mo. Lifting and swinging support for railway motor-cars. No. 1,391,330; Sept. 20; v. 290; p. 511.
- Loehr, Anthony J., Astoria, N. Y. Automobile-signal. No. 1,365,514; Jan. 11; v. 282; p. 327.
- Loening, Grover C., New York, N. Y. Airplane. No. 1,394,630; Oct. 25.
- Loepsinger, Albert J., Edgewood, assignor to General Fire Extinguisher Company, Providence, R. I. Automatic sprinkler system. No. 1,378,249; May 17; v. 286; p. 466.
- Loesch, Henry C. (See Bartell, W. H., and Loesch.)
- Loeschner, Henry F., Fredericktown, Mo. Protractor-level. No. 1,382,923; June 28; v. 287; p. 658.
- Loeser, Emil L., Watertown, Wis. Game. No. 1,399,133; Dec. 6.
- Loeser, Leo, Buffalo, N. Y. Foot-warmer for car-platforms. No. 1,398,384; Nov. 29.
- Loewenbach, Hugo, Hartland, assignor to Automatic Bowling Alley Co., Milwaukee, Wis. Game apparatus. No. 1,392,586; Oct. 4.
- Loewenberg, Victor, New York, N. Y. Combination bed and douche pan. No. 1,376,956; May 3; v. 286; p. 110.
- Loewenberg, William B., Marion, Ind. Basket. No. 1,399,974; Dec. 13.
- Loewenherz, Emanuel, Chicago, Ill. Tooth-cleaning device. No. 1,366,092; Jan. 18; v. 282; p. 479.
- Loewenstein, Louis C., Lynn, Mass., assignor to General Electric Company, Centrifugal compressor and the like. No. 1,373,896; Apr. 5; v. 285; p. 101.
- Lofdahl, Carl A. (See Lofdahl, Charles J. and C. A.)
- Lofdahl, Charles J. and C. A., Joliet, Ill. Plane-scraper. No. 1,399,631; Dec. 6.
- Loffi, George. (See Loffi, Leonard J., assignor.)



## Alphabetical list of patentees—Continued.

- Loffi, Leonard J., Fort Wayne, assignor of one-half to G. Loffi, Garrett, Ind. Combination swing and high chair. No. 1,377,422; May 10; v. 286; p. 266.
- Loffland, Roy. (See Singers, E. H., and Loffland.)
- Loffler, Charles L., Minneapolis, Minn. Band-cutter. No. 1,394,434; Oct. 18.
- Loffler, Edmund. (See de Lukacsevics, C., and Loffler.)
- Loffler, Edmund. (See de Lukacsevics, Charles, assignor.)
- Lofquist, John V., St. Paul, Minn. Clothesline holder and tightener. No. 1,373,967; Apr. 5; v. 285; p. 115.
- Lofquist, John V., St. Paul, Minn. Tent-rope tightener. No. 1,400,445; Dec. 13.
- Lofstrand, Albin P., Edmonton, Alberta, Canada. Automatic grain-shocker. No. 1,373,252; Mar. 29; v. 284; p. 880.
- Loft Incorporated. (See Wallace, Harvey R., assignor.)
- Lofton, Herbert M., Chattanooga, Tenn. Indicator-post. No. 1,386,065; Aug. 2; v. 289; p. 21.
- Lofts, George H., Hobart, Tasmania, Australia. Electrically heated article to avoid damage through overheating. No. 1,392,101; June 21; v. 287; p. 448.
- Loftus, Edward M., St. Paul, Minn. Pliers. No. 1,398,904; Nov. 29.
- Loftus, John P., Ogdens, Alberta, Canada. Air-compressor. No. 1,373,339; Mar. 29; v. 284; p. 898.
- Loftus, Nicholas R., Beckley, W. Va. Electric oil and gas producer. No. 1,368,404; Feb. 15; v. 283; p. 402.
- Löfveberg, Carl G. (See Eklund, T. A., and Löfveberg.)
- Logan, Albert L., assignor to Gem Manufacturing Company, Pittsburgh, Pa. Oil-can spout. No. 1,364,566; Jan. 4; v. 282; p. 100.
- Logan, Arthur G., Mount Pleasant, Pa. Valve. No. 1,371,795; Mar. 15; v. 284; p. 499.
- Logan, Frank J., assignor of one-third to C. Leibinger and one-third to S. C. Allen, Rochester, N. Y. Barrel-tipper. No. 1,367,063; Feb. 1; v. 283; p. 36.
- Logan, John F. and W. A., St. Catharines, Ontario, Canada. Cooking foods. No. 1,365,928; Jan. 18; v. 282; p. 448.
- Logan, Marselius J., Springfield, Va., assignor to Wayne Tool Manufacturing Company, Waynesboro, Pa. Drill-chuck. No. 1,376,384; Apr. 26; v. 285; p. 713.
- Logan, Marselius J., Springfield, assignor of one-half to L. G. Alexander, Alexandria, Va. Countersink. No. 1,377,495; May 10; v. 286; p. 270.
- Logan, Maurice S., Loreburn, Saskatchewan, Canada. Motor-wheel. No. 1,366,672; Jan. 25; v. 282; p. 638.
- Logan, Merritt M., Springfield, Mo. Overalls-bib. No. 1,375,163; Apr. 19; v. 285; p. 449.
- Logan, Peter, Hammond, Ind. Jumping-rope. No. 1,371,915; Mar. 15; v. 284; p. 522.
- Logan, Spencer H., Chicago, Ill. Cigarette-holder. No. 1,368,173; Feb. 8; v. 283; p. 309.
- Logan, Winfield A. (See Logan, John F. and W. A.)
- Logansport Machine Company. (See Igberg, Frederick W., assignor.)
- Logel, Henry, Muskegon, Mich. Saw-filing device. No. 1,385,014; July 19; v. 288; p. 495.
- Logue, Charles H., and D. D. Ormsby, Syracuse, N. Y. Differential gearing. No. 1,396,225; Nov. 8.
- Logue, Michael E. (See Bahr, J. S., and Logue.)
- Logwood, Charles V., New York, N. Y. Signaling system. No. 1,397,432; Nov. 15.
- Lohman, Phillip M., Memphis, Tenn. Shoe-dauber. No. 1,372,523; Mar. 22; v. 284; p. 694.
- Lohn, Jacob, Appleton, Wis. Water-cooling radiator. No. 1,401,164; Dec. 27.
- Lohr, Michael E., Westmont borough, Pa. Hoisting apparatus. No. 1,394,915; Oct. 25.
- Lohr, William. (See Hough, S., and Lohr, assignors.)
- Lehrey, Walter, Bloomfield, N. J., assignor to Magna Metal Corporation, New York, N. Y. Electric furnace. No. 1,396,374; Nov. 8.
- Lokometzki, Frank M., Milwaukee, Wis. Curtain-fixture. No. 1,368,174; Feb. 8; v. 283; p. 309.
- Lomando, Lewis, Hazleton, Pa. Conveyor-chain. No. 1,373,010; Mar. 29; v. 284; p. 832.
- Lomano, Michael, Columbus, Ohio. Window-cleaner. No. 1,370,463; Mar. 1; v. 284; p. 134.
- Lomas, Harry, and J. Mortimer, London, England. Hypodermic syringe. No. 1,393,720; Oct. 11.
- Lomas, William A., Detroit, Mich. Sound-regulator for talking-machines. No. 1,382,297; June 21; v. 287; p. 485.
- Lomax, Harold A., Pittsburgh, Pa. Hardening metal. No. 1,374,509; Apr. 12; v. 285; p. 260.
- Lomax, Joseph B., Furness Vale, near Stockport, England. Finishing or lusting textile fabrics. No. 1,393,296; Oct. 11.
- Lomb, George W. C., Covington, Ky. Vehicle-tire. No. 1,389,766; Sept. 6; v. 290; p. 41.
- Lombard Carburetor Company. (See Lombard, Nathaniel, assignor.)
- Lombard, Harold E., *et al.* (See Horn, Charles A., assignor.)
- Lombard, Nathaniel, assignor to Lombard, White Company, Worcester, Mass. Washing-machine. No. 1,382,992; June 28; v. 287; p. 672.
- Lombard, Nathaniel, assignor to Lombard Carburetor Company, Worcester, Mass. Carburetor. No. 1,387,420; Aug. 9; v. 289; p. 361.
- Lombard, Walter E., Arlington, Mass. Screwdriver and the like. No. 1,384,201; July 12; v. 288; p. 244.
- Lombard, Walter E., Arlington, Mass. Lifting-jack. No. 1,396,858; Nov. 15.
- Lombard, Walter E., Arlington, assignor to A. O. Norton, Inc., Boston, Mass. Retarding mechanism for lifting-jacks. No. 1,383,221; June 28; v. 287; p. 715.
- Lombard, Walter E., Arlington, assignor to A. O. Norton, Inc., Boston, Mass. Governor mechanism for lifting-jacks. No. 1,384,202; July 12; v. 288; p. 245.
- Lombard, White Company. (See Lombard, Nathaniel, assignor.)
- Lombardi, Frank, New York, N. Y. Washing-machine. No. 1,375,522; Apr. 19; v. 285; p. 517.
- Lombardo, August, Mason City, Iowa. Banana-crate. No. 1,385,015; July 19; v. 288; p. 495.
- Lombi, Louis, North Bergen, N. J. Apparatus for coaling ships and the like. No. 1,373,436; Apr. 5; v. 285; p. 11.
- London General Omnibus Company, The. (See Gage, Samuel, assignor.)
- London and Westminster Industrial Syndicate Limited, The. (See Molesworth, Henry B., assignor.)
- Long, Abram F., Buffalo, N. Y. Conveying-valve. No. 1,396,859; Nov. 15.
- Long, Albert R., Ballston, Va. Fuel feeding and ignition means. No. 1,384,473; July 12; v. 288; p. 301.
- Long, Albert R., Ballston, Va. Internal-combustion engine. No. 1,394,850; Oct. 25.
- Long, Alexander H., Mobile, Ala. Photographic camera. No. 1,397,132; Nov. 15.
- Long, Bertie J., West Brooklyn, Ill. Chain-hook. No. 1,392,184; Sept. 27; v. 290; p. 757.
- Long, Catherine E. (See Carney, James P., assignor.)
- Long, Charles, assignor of one-half to F. Garner, Jeffersonville, Ind. Oil-pump. No. 1,377,895; May 10; v. 286; p. 347.
- Long, Charles H., *et al.* (See Thompson, Edward C. and W. H., assignors.)
- Long, Claud L., Dayton, Ohio, assignor to The Crawford, McGregor and Canby Company, Turning-head for wood-working-machines. No. 1,370,825; Mar. 8; v. 284; p. 249.
- Long, Claude L., and C. Schmaus, assignors to The Crawford, McGregor and Canby Co., Dayton, Ohio. Cutter-head for woodworking-machines. No. 1,387,278; Aug. 9; v. 289; p. 331.
- Long, David S. (See Hardy, J. N., Wilson, and Long.)
- Long, Edward C. (See Miller, L. G., and Long.)
- Long, Elmer C., Quincy, Ill. Piston. No. 1,395,441; Nov. 1.
- Long, Emil J., San Francisco, Calif., assignor to Continental Furniture Manufacturing Company. Upholstering-machine. No. 1,381,673; June 14; v. 287; p. 289.
- Long, Frederick R., Berwick, Pa., assignor to American Car and Foundry Company, St. Louis, Mo. Forging-machine. No. 1,370,978; Mar. 8; v. 284; p. 278.
- Long, George A., assignor to The Gray Telephone Pay Station Company, Hartford, Conn. Automatic telephone pay-station. No. 1,383,472; July 5; v. 288; p. 44.
- Long, George J., Chicago, Ill. Kitchen utensil. No. 1,370,752; Mar. 8; v. 284; p. 235.
- Long, Hillary C., New York, N. Y. Skate device. No. 1,380,914; June 7; v. 287; p. 113.
- Long, Hillary C., New York, N. Y. Runner device. No. 1,380,915; June 7; v. 287; p. 113.
- Long, James A. (See Bixler, J. F., and Long.)
- Long, Jenerous A., and C. A. Sturm, Portland, Ore. Oil-burner. No. 1,369,897; Mar. 1; v. 284; p. 27.
- Long, John E., Havelock, Nebr. Dirt-loading machine. No. 1,380,488; June 7; v. 287; p. 31.
- Long, John E., Hot Springs, Mont. Electric sign. No. 1,394,565; Oct. 25.
- Long, John J., Norfolk, Va. Reversible cuff. No. 1,396,643; Nov. 8.
- Long, John R., assignor to The Akron Wrench and Vise Company, Akron, Ohio. Vise. No. 1,399,632; Dec. 6.
- Long, Lewis R., Kansas City, Mo. Signboard. No. 1,364,635; Jan. 4; v. 282; p. 113.
- Long, Logan L. (See Sherer, Glen D., assignor.)
- Long Manufacturing Company. (See Eligh, Charles A., assignor.)
- Long Manufacturing Company. (See Hawkins, Raymond L., assignor.)
- Long, Milton E., and G. W. Katzung, Pittsfield, Mass., assignors to General Electric Company. Electric heating device. No. 1,376,023; Apr. 26; v. 285; p. 645.
- Long, Nancy K., *et al.*, executors. (See Keiper, Henry B.)
- Long, Sidney J. T., Auckland, New Zealand. Heat-saving device for gas-stoves. No. 1,366,738; Jan. 25; v. 282; p. 651.
- Long Staple Cotton Gin Manufacturing Company. (See Milan, Robert H., assignor.)
- Long, Thomas A. (See Wightman, S. H., and Long.)
- Long, Uriah O., Los Angeles, Calif. Railway-tie. No. 1,366,673; Jan. 25; v. 282; p. 638.
- Long, Willard O., Mansfield, Ohio. Harrow. No. 1,394,030; Oct. 18.
- Long, William H., Berkeley, Calif. Combination-lock. No. 1,364,445; Jan. 4; v. 282; p. 78.
- Long, William H., New York, N. Y. Machine for grain-ing planographic plates. No. 1,373,140; Mar. 29; v. 284; p. 858.
- Long, William L., Coffeyville, Kans. Pipe-patch. No. 1,388,731; Aug. 23; v. 289; p. 629.



- Longfellow, Harry S. (See Medine, Frank J., assignor.)  
 Longford Company of America, The. (See Davison, Guy S., assignor.) (Reissue.)  
 Longman, Garfield D. (See Putnam, W., and Longman.)  
 Longmeyer, Paul C., assignor to William Mann Company, Philadelphia, Pa. Safety-check. No. 1,390,959; Sept. 13; v. 290; p. 374.  
 Longstreet, James R., Philadelphia, Pa. Battery-water-replenishing device. No. 1,383,411; July 5; v. 288; p. 32.  
 Longtin, William J., Philadelphia, assignor to Allen Hosiery Company, Wayne Junction, Germantown, Philadelphia, Pa. Stocking. No. 1,386,266; Aug. 2; v. 289; p. 61.  
 Lonk, Adolph F., Chicago, Ill. Carpet-stiffener. No. 1,380,989; June 7; v. 287; p. 128.  
 Lonk, Adolph F., Chicago, Ill. Key-fastener. No. 1,380,990; June 7; v. 287; p. 128.  
 Lonk, Adolph F., Chicago, Ill. Trap. No. 1,382,298; June 21; v. 287; p. 485.  
 Lonkert, Edward T. (See Yennett, J., and Lonkert.)  
 Lonney, Thomas C., assignor of one-half to E. D. Shupert, Chicago, Ill. Steering-head lock. No. 1,381,206; June 14; v. 287; p. 221.  
 Lonsdale, William, Elizabeth, assignor to Wheeler Condenser and Engineering Company, Carteret, N. J. Rotative dry vacuum-pump. No. 1,370,979; Mar. 8; v. 284; p. 278.  
 Lonsdale, William, Elizabeth, assignor to Wheeler Condenser and Engineering Company, Carteret, N. J. Draw-bench-tongs. No. 1,371,700; Mar. 15; v. 284; p. 481.  
 Lonsway, John J., Fostoria, Ohio. Portable rail-drill. No. 1,380,991; June 7; v. 287; p. 128.  
 Lonviere, Paul S., Union, La. Clothespin. No. 1,372,524; Mar. 22; v. 284; p. 695.  
 Loomer, Henry M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Grinding-machine for rotary cutters. No. 1,386,638; Aug. 9; v. 289; p. 204.  
 Loomer, Henry M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Burnishing-machine. No. 1,395,285; Nov. 1.  
 Loomis, Alfred L., U. S. Army; P. Klopsteg, Philadelphia, Pa.; P. G. Agnew, Washington, D. C., and W. H. Stannard, Glen Echo, Md. Chronograph. No. 1,376,890; May 3; v. 286; p. 98.  
 Loomis, Allen, assignor to Packard Motor Car Company, Detroit, Mich. Carbureter. No. 1,399,065; Dec. 6.  
 Loomis, Chauncey C., Syracuse, assignor to Somet-Solvay Company, Solvay, N. Y. Halogenating hydrocarbon compounds. No. 1,384,909; July 19; v. 288; p. 472.  
 Loomis, Edwin A. (See La Croix E., and Loomis.)  
 Loomis, Everts G., Newark, N. J. Shaper. No. 1,370,895; Mar. 8; v. 284; p. 261.  
 Loomis, Everts G., Newark, N. J. Universal pipe-joint. No. 1,373,515; Apr. 5; v. 285; p. 27.  
 Loomis, Everts G., Newark, N. J. Machine-tool. No. 1,396,332; Nov. 8.  
 Loomis, Harold S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Interlocking apparatus for the control of railway-switches. No. 1,398,785; Nov. 29.  
 Loomis, Henry F., Reading, Pa. Bath-spray. No. 1,386,518; Aug. 2; v. 289; p. 108.  
 Loomis-Manning Filter Manufacturing Company. (See Manning, J. T., and Cludius, assignors.)  
 Loomis-Sielaff Company, The. (See Sielaff, Max J., assignor.)  
 Loos, George J., Philadelphia, Pa. Cabinet. No. 1,368,515; Feb. 15; v. 283; p. 424.  
 Loose, Kenneth D. (See Lawrence, E. E., and Loose.)  
 Loose-Wiles Biscuit Company. (See Lawrence, E. E., and Loose, assignors.)  
 Loose-Wiles Biscuit Company. (See Lawrence, Edward E., assignor.)  
 Loosli, Eugene, Ilion, N. Y. Machine for grinding pallet-stones. No. 1,378,364; May 17; v. 286; p. 488.  
 Lopes, Antonio, assignor to Antonio de Almeida Bello, Lisbon, Portugal. Nutcracker. No. 1,370,137; Mar. 1; v. 284; p. 72.  
 López, Jesus M., San Antonio, Tex. Roller-distributor. No. 1,372,177; Mar. 22; v. 284; p. 628.  
 Loping Horse & Novelty Co., The. (See Tracey, Daniel F., assignor.)  
 Lopitsky, John, Livingston, W. Va. Track-layer. No. 1,396,765; Nov. 15.  
 Lorain Rubber Heel Company, The. (See Damon, George N., assignor.)  
 Lord Baltimore Press, The. (See Billstein, Aaron M., assignor.)  
 Lord, Harry G., Collingswood, N. J. Torsional equalizer. No. 1,380,225; May 31; v. 286; p. 987.  
 Lord, John D., Winthrop, Mass. Liquid-fuel burner. No. 1,395,846; Nov. 1.  
 Lord Lawrence S., Cleveland, Ohio. Faucet. No. 1,397,220; Nov. 15.  
 Lords, Thaddeus J., assignor to Sears, Roebuck and Co., Chicago, Ill. Nail. No. 1,382,005; June 21; v. 287; p. 431.  
 Lorentz, Albert M., McMechen, W. Va. Milk-strainer. No. 1,393,031; Oct. 11.  
 Lorentzen, Hans K., New York, N. Y. Apparatus for duplicating typewritten matter. No. 1,378,883; May 24; v. 286; p. 660.  
 Lorentzen, Iver, Clear Lake, S. D. Nail-puller. No. 1,387,653; Aug. 16; v. 289; p. 459.  
 Lorenz, Charles F., Cleveland, Ohio, assignor to General Electric Company. Frosted glass and making the same. No. 1,386,880; Aug. 9; v. 289; p. 254.  
 Lorenz, Charles O., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Electric-current relay. No. 1,385,181; July 19; v. 288; p. 529.  
 Lorenz, Ernst H. J., Madison, assignor to J. H. Harris, G. B. Harris, G. D. Puffer, and J. L. Harris, Elkhorn, Wis. Reading device for test-bottles. No. 1,366,397; Jan. 25; v. 282; p. 582.  
 Lorenz, Ernst H. J., Madison, assignor to a copartnership consisting of G. B. Harris, G. D. Puffer, Waukesha, J. L. Harris and J. H. Harris, Elkhorn, Wis. Computing mechanism. No. 1,372,707; Mar. 29; v. 284; p. 771.  
 Lorenz, William A., Hartford, Conn. Headlights. No. 1,376,447; May 3; v. 286; p. 13.  
 Lorenzo, Vicente G., Habana, Cuba. Preparation for the neutralization of the acids and the precipitation of salts contained in waters. No. 1,399,266; Dec. 6.  
 Lorey, William, Philadelphia, Pa. Adjustable lamp-support. No. 1,395,847; Nov. 1.  
 Lorillard, P., Company. (See Drury, Frederick A., assignor.)  
 Lorimer, George W., Troy, assignor, by mesne assignments, to The Thomas Manufacturing Company, Dayton, Ohio. Automatic stop for phonographs. No. 1,396,964; Nov. 15.  
 Loring, Helene V. A., Chicago, Ill. Nail-buffer. No. 1,370,753; Mar. 8; v. 284; p. 235.  
 Lorraine, David G., Los Angeles, Calif. Gas, oil, and sand separator. No. 1,373,664; Apr. 5; v. 285; p. 55.  
 Lorraine, David G., Los Angeles, Calif. Oil, gas, and sand separator. (Reissue.) No. 15,220; Nov. 8.  
 Lorraine, David G., Los Angeles, Calif. Method and apparatus for separating oil and gas. No. 1,396,860; Nov. 15.  
 Lorraine, David G., Taft, Calif. Measuring device. No. 1,401,913; Dec. 27.  
 Lorscheider-Schang Co., The. (See Schang, Frederick, assignor.)  
 Lortz, Louis E., St. Louis, assignor to Fulton Iron Works Company, St. Louis county, Mo. Hydraulic apparatus for crushing-mills. No. 1,383,473; July 5; v. 288; p. 45.  
 Los Angeles Trust and Savings Bank, trustee. (See Strauss, Samuel, assignor.)  
 Losee, Richard S., Syracuse, N. Y. Pocket tobacco-can. No. 1,396,226; Nov. 8.  
 Loseky, Joseph, Cleveland, Ohio. Safe. No. 1,390,571; Sept. 13; v. 290; p. 295.  
 Losh, Charles S., New York, N. Y. Organ-pipe. No. 1,376,891; May 3; v. 286; p. 98.  
 Loth, Julius A., Utrecht, Netherlands. Artificial limb and the like. No. 1,390,915; Sept. 13; v. 290; p. 365.  
 Lothrop, Marcus T., assignor to The Timken Roller Bearing Company, Canton, Ohio. Pyrometer-switch. No. 1,399,134; Dec. 6.  
 Lott, Clarence C., New York, N. Y. Valve-grinding device. No. 1,400,365; Dec. 13.  
 Lott, Clyde R., Washington, D. C., assignor to The Guardian Trust and Savings Bank of Toledo, Toledo, Ohio. Glass-forming machine. No. 1,369,679; Feb. 22; v. 283; p. 690.  
 Lott, Clyde R., Washington, D. C., assignor to The Guardian Trust & Savings Bank of Toledo, trustee, Toledo, Ohio. Means and method for producing charges of molten glass. No. 1,382,993; June 28; v. 287; p. 672.  
 Lott, Clyde R., Washington, D. C., assignor to The Guardian Trust and Savings Bank of Toledo, trustee, Toledo, Ohio. Method and apparatus for making glass articles. No. 1,382,994; June 28; v. 287; p. 672.  
 Lotte, Charles, Marion, Ohio. Power-shovel or excavating-machine. No. 1,396,375; Nov. 8.  
 Lotz, Harold R., Toledo, Ohio. Headlight. No. 1,400,366; Dec. 13.  
 Lotz, William A. (See Tueckmantel, H., and Lotz.)  
 Lotz, William A., Newark, N. J., assignor to The R. Neumann Hardware Co. Key. No. 1,373,897; Apr. 5; v. 285; p. 101.  
 Lotz, William A., Newark, N. J., assignor to The R. Neumann Hardware Co. Bag-frame catch or hasp. No. 1,399,779; Dec. 13.  
 Loubet, Pierre, assignor to Société Hue Frères et Loubet, Paris, France. Apparatus for underground pumping. No. 1,401,620; Dec. 27.  
 Loucks, Albert H. (See Smith, E. B., and Loucks.)  
 Loud, George D., Boston, Mass. Pumping unit. No. 1,394,916; Oct. 25.  
 Loud, Henry S. (See Landers, William H., assignor.)  
 Louden, James R., Utica, N. Y. Piston-ring gage. No. 1,381,075; June 7; v. 287; p. 144.  
 Louden Machinery Company, The. (See Hassler, Paul M., assignor.)  
 Louden Machinery Company, The. (See Louden, William, assignor.)  
 Louden Machinery Company. (See Neller, Albert H., assignor.)



## Alphabetical list of patentees—Continued.

- Louden Machinery Company, The. (See Silver, Herman, assignor.) (Reissue.)
- Louden, William, assignor to The Loudon Machinery Company, Fairfield, Iowa. Fastener for closures. No. 1,385,563; July 26; v. 288; p. 683.
- Loudenbeck, Harry C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Piston-packing. No. 1,372,760; Mar. 29; v. 284; p. 782.
- Loudenslager, Charles W., Los Angeles, Calif., (now by judicial change of name C. W. Loudon.) Footwear-support. No. 1,385,328; July 19; v. 288; p. 558.
- Loudenslager, Earl, assignor to The Timken Roller Bearing Company, Canton, Ohio. Trolley-wheel bearing. No. 1,367,706; Feb. 8; v. 283; p. 220.
- Loudon, Dorr F., New York, N. Y. Plant-stand. No. 1,371,796; Mar. 15; v. 284; p. 499.
- Loudon, Dorr F., New York, N. Y. Plant-stand. No. 1,396,445; Nov. 8.
- Loudon Manufacturing Company. (See Wosinski, Bert, assignor.)
- Loudon Manufacturing Company. (See Wykes, Claude P., assignor.)
- Loudon, Warren P., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery construction. No. 1,395,992; Nov. 1.
- Loudon, Warren P., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Micrometer mechanism. No. 1,401,621; Dec. 27.
- Loufek, Frank, Cedar Rapids, Iowa. Wheel-compressing machine. No. 1,378,700; May 17; v. 286; p. 553.
- Lough, Hector V., assignor to The Hartford Rubber Works Company, Hartford, Conn. Mold and clamp therefor. No. 1,367,404; Feb. 1; v. 283; p. 104.
- Lougheed, Victor, San Francisco, Calif. Lid or closure for receptacles. No. 1,373,437; Apr. 5; v. 285; p. 11.
- Lougheed, Victor, assignor to Enterprize Foundry Company, San Francisco, Calif. Hollow pattern and method of producing molds. No. 1,364,123; Jan. 4; v. 282; p. 15.
- Lougheed, Victor, assignor to Enterprize Foundry Company, San Francisco, Calif. Removing patterns from molds. No. 1,364,124; Jan. 4; v. 282; p. 15.
- Lougheed, Victor, Santa Barbara, assignor to Duodisk Steel Wheel Corporation, Los Angeles, Calif. Disk-wheel assembly. No. 1,379,352; May 24; v. 286; p. 750.
- Lougheed, Victor, assignor to Enterprize Foundry Company, San Francisco, Calif. Mold mixture. No. 1,380,398; June 7; v. 287; p. 14.
- Loughridge, Matthew H. (See Gilman, W. H., and Loughridge.)
- Loughridge, Matthew H., Bogota, N. J. Automatic carrier. No. 1,381,317; June 14; v. 287; p. 241.
- Loughridge, Matthew H., Bogota, N. J., assignor to Atlas Railway Signal Company. Embossing-machine. No. 1,394,261; Oct. 18.
- Louis, Meyer. (See May, Victor, assignor.)
- Louisville Cement Company. (See Lemmon, James H., assignor.)
- Loukus, Charles O., Mandan, Mich. Double-acting four-cycle explosion-engine. No. 1,399,354; Dec. 6.
- Lounge, John H. (See Beyer, F. N., and Lounge.)
- Lourie, Nicholas R., Gloucester, Mass. False tooth and supporting means therefor. No. 1,400,613; Dec. 20.
- Lourim, John, Bay City, Mich. Road-plate for protecting roads. No. 1,375,792; Apr. 26; v. 285; p. 600.
- Louthan, Wallace B., Marshalltown, Iowa. Direction-indicator. No. 1,377,082; May 3; v. 286; p. 134.
- Loutrel, Cyrus H., South Orange, N. J., assignor to The National Lock Washer Company, Newark, N. Y. Sash-fastener. No. 1,394,317; Oct. 18.
- Love, Charles A., and C. Goldston, Paris, Tenn. Staple-nail. No. 1,378,803; May 17; v. 286; p. 573.
- Love, Clyde D., Coshocton, Ohio. Sun-dial. No. 1,396,937; Nov. 15.
- Love, Ralph M. (See Vaughan, R. B., and Love.)
- Love, Thomas H., Cincinnati, Ohio. Track construction for railways. No. 1,389,202; Aug. 30; v. 289; p. 877.
- Lovejoy, Elmer, Laramie, Wyo. Trackage for ceiling type of doors with door-openers. No. 1,378,123; May 17; v. 286; p. 443.
- Lovejoy, Fred P., Springfield, Vt. Turret attachment for metal-working machines. No. 1,400,614; Dec. 20.
- Lovejoy, John F., New Rochelle, N. Y. Briquet manufacture. No. 1,366,091; Jan. 18; v. 282; p. 479.
- Lovejoy, Ralph M., Meredith, N. H. Elevating hand-truck. No. 1,378,250; May 17; v. 286; p. 466.
- Lovejoy Tool Works. (See Shreve, Harry B., assignor.)
- Lovekin, Luther D., assignor to The Lovekin Water Heater Company, Philadelphia, Pa. Thermostatic gas-valve control. No. 1,381,652; June 14; v. 287; p. 304.
- Lovekin Water Heater Company, The. (See Lovekin, Luther D., assignor.)
- Loveland, James A., & M. L. Fisher, Kalamazoo, Mich. Light-deflector. No. 1,399,355; Dec. 6.
- Loveless, John M., Gleezen, Ind. Auto-carrier. No. 1,392,777; Oct. 4.
- Lovell, Albert K., New Hartford, Conn. Spring-tire for vehicle-wheels. No. 1,385,629; July 26; v. 288; p. 696.
- Lovell, Christopher H., assignor, by mesne assignments, to T. M. Webster, St. Louis, Mo. Envelop-fastener. No. 1,393,801; Oct. 18.
- Lovell, Roy A., San Francisco, Calif. Piston-ring. No. 1,378,251; May 17; v. 286; p. 467.
- Lovell, William V., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatically-controlled vapor-converter substation. No. 1,389,147; Aug. 30; v. 289; p. 866.
- Lover, Edward, assignor to Lover Top and Converter Co., Inc., Buffalo, N. Y. Vehicle-top frame. No. 1,385,138; July 19; v. 288; p. 521.
- Lover Top and Converter Co. (See Lover, Edward, assignor.)
- Lover, William E., Findlay, Ohio. Combined envelop and drinking-cup. No. 1,364,999; Jan. 11; v. 282; p. 228.
- Lover, William E., Findlay, Ohio. Integral envelop and bag. No. 1,390,718; Sept. 13; v. 290; p. 324.
- Lovested, Carl M. (See Brown, Walter S., assignor.)
- Lovett, Harry L., Nashua, N. H. Interchangeable price-card section. No. 1,395,127; Oct. 25.
- Lovett, Patrick J., De Soto, Mo. Shoe-heel. No. 1,365,515; Jan. 11; v. 282; p. 327.
- Lovett, Stephen H., Miles City, Mont. Car-door. No. 1,378,475; May 17; v. 286; p. 509.
- Lovie, Bernard. (See Hahn, H., and Lovie.)
- Loving, William N., Highland Park, Mich. Nut-lock. No. 1,372,173; Mar. 22; v. 284; p. 628.
- Lovington, Joseph C., Newark, N. J. Expansion-bolt. No. 1,372,708; Mar. 29; v. 284; p. 771.
- Lovrencic, Slavk, et al. (See Libenschek, Rudolf, assignor.)
- Low, Arthur B., Denver, Colo. Tire-gage. No. 1,388,275; Aug. 23; v. 289; p. 640.
- Low, Arthur B., Denver, Colo. Pressure-gage. No. 1,392,587; Oct. 4.
- Low, David, San Jose, and W. H. Gavin, assignors to Pratt-Low Preserving Co., Santa Clara, Calif. Fruit cutting and pitting table. No. 1,364,289; Jun. 4; v. 282; p. 48.
- Low, Everett M., Brooklyn, N. Y. Typographic composing-machine. No. 1,378,045; May 17; v. 286; p. 428.
- Low, Frank K., Milwaukee, Wis. Blowtorch-valve. No. 1,397,814; Nov. 22.
- Low, John W., assignor to National Carton Company, Joliet, Ill. Butter-wrapper. No. 1,391,551; Sept. 20; v. 290; p. 556.
- Lowden, Hugh B., Denver, Colo. Drying apparatus. No. 1,377,896; May 10; v. 286; p. 347.
- Lowe, Charles A., Denver, Colo. Combined can opener and sanitary sealer. No. 1,374,019; Apr. 5; v. 285; p. 125.
- Lowe, Charles T., et al. (See Lowe, Clarence A., as signor.)
- Lowe, Clarence A., assignor of one-third to C. T. Lowe and one-third to H. A. Hillcoat, Amhurst, Nova Scotia, Canada. Oil-burner. No. 1,365,418; Jan. 11; v. 282; p. 309.
- Lowe, Clyde E. (See Clark, D. A., and Lowe, assignor.)
- Lowe, Ernest A., North Plainfield, N. J., assignor to Automatic Sprinkler Company of America, New York, N. Y. Automatic fire-alarm device. No. 1,401,914; Dec. 27.
- Lowe, Harry W., assignor, by mesne assignments, to Indiana Canning Machinery Co., Indianapolis, Ind. Pulp-ing-machine. No. 1,366,011; Jan. 18; v. 282; p. 463.
- Lowe, Harry W., Omaha, Neb., assignor, by mesne assignments, to Sprague Canning Machinery Co. Finishing-machine. No. 1,393,949; Oct. 18.
- Lowe, Hollis J. (See Gillis, J. B., Rhodes, and Lowe.)
- Lowe, Ray W., Waterbury, Conn. Making tubes. No. 1,370,328; Mar. 1; v. 284; p. 109.
- Lowe, Robert G., Clawson, Mich. Power-agitator. No. 1,392,345; Oct. 4.
- Lowe, Thaddeus, San Marino, Calif. Apparatus for heating orchards. No. 1,375,221; Apr. 19; v. 285; p. 459.
- Lowe, William B., New York, N. Y. Vehicle spring suspension. No. 1,396,044; Nov. 8.
- Lowe, William H. (See Plettner, O. L., and Lowe.)
- Lowell, George F. (See Johnson, Herbert L., assignor.)
- Lowenhaupt, Daniel, and C. D. Rowe, Mount Vernon, Ind. Knockdown shipping box or crate. No. 1,379,196; May 24; v. 286; p. 719.
- Lowenstein, Fritz, Brooklyn, N. Y. Spark-gap apparatus. No. 1,388,834; Aug. 23; v. 289; p. 748.
- Lowenstein, Karl Prince zu, Neckargemünd, and F. Hauff, Stuttgart, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Producing nitrogen-containing compounds. No. 1,386,941; Aug. 9; v. 289; p. 266.
- Lowenstein Radio Company. (See Theimer, Eugene, assignor.)
- Lower, Nathan M., Jarrettown, Pa., assignor to Locomotive Stoker Company, Schenectady, N. Y. Locomotive-stoker. No. 1,368,271; Feb. 15; v. 283; p. 377.
- Lower, Nathan M., Schenectady, N. Y., assignor to Locomotive Stoker Company, Pittsburgh, Pa. Fuel-injector for locomotive-stokers. No. 1,368,272; Feb. 15; v. 283; p. 377.
- Lower, Nathan M., Schenectady, N. Y., assignor to Locomotive Stoker Company, Pittsburgh, Pa. Locomotive-stoker. No. 1,368,273; Feb. 15; v. 283; p. 377.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company, Schenectady, N. Y. Locomotive-stoker. No. 1,371,252; Mar. 15; v. 284; p. 393.



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- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive-stoker. No. 1,371,497; Mar. 15; v. 284; p. 442.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive-stoker. No. 1,371,498; Mar. 15; v. 284; p. 442.
- Lower, Nathan M., assignor to Locomotive Stoker Company, Pittsburgh, Pa. Screw conveyer. No. 1,373,748; Apr. 5; v. 285; p. 71.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive-stoker. No. 1,375,711; Apr. 26; v. 285; p. 585.
- Lower, Nathan M., assignor to Locomotive Stoker Company, Schenectady, N. Y. Locomotive-stoker. No. 1,377,259; May 10; v. 286; p. 224.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company, Schenectady, N. Y. Locomotive-stoker. No. 1,379,506; May 24; v. 286; p. 740.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive-stoker. No. 1,379,307; May 24; v. 286; p. 741.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Fuel conveying and crushing mechanism. No. 1,384,138; July 12; v. 288; p. 232.
- Lower, Nathan M., Bellevue, assignor to The Locomotive Stoker Company, Pittsburgh, Pa. Locomotive draft appliance. No. 1,388,655; Aug. 23; v. 289; p. 714.
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Fuel-distributor. No. 1,391,744; Sept. 27; v. 290; p. 668.
- Lowery, E. P. (See Peden, Francis M., assignor.)
- Lowery Lock Company, The. (See Lowery, William A., assignor.)
- Lowery, William A., Summit, Ga., assignor to The Lowery Lock Company. Automobile-lock. No. 1,384,075; July 12; v. 288; p. 218.
- Lowitz, Samuel. (See Harrington, Clyde M., assignor.)
- Lowman, Adonis G. E., Winnipeg, Manitoba, Canada. Game-board. No. 1,364,290; Jan. 4; v. 282; p. 48.
- Lowndes, Frank F., Gisborne, New Zealand. Life-saving apparatus for boats. No. 1,383,551; July 5; v. 288; p. 60.
- Lowndes, Loftus, Dublin, Ireland. Sash-cord fastener. No. 1,393,561; Nov. 29.
- Lowndes, Richard H., Atlanta, Ga. Universal joint. No. 1,394,749; Oct. 25.
- Lowrey, George A., Goose Creek, Tex. Pipe-tongs. No. 1,401,417; Dec. 27.
- Lowry, Frank J., assignor of one-half to H. J. Gassie, New Orleans, La. Trolley-guard. No. 1,373,340; Mar. 29; v. 284; p. 898.
- Lowry, Frederick S., deceased, by M. L. Hart, administratrix, Roseville, Ohio. Ceramic vessel. No. 1,400,489; Dec. 13.
- Lowry, Harold K., Chicago, Ill. Electrical connector device. No. 1,387,548; Aug. 16; v. 289; p. 438.
- Lowry, Howard S., Kansas City, Mo. All-porcelain tooth. No. 1,377,358; May 10; v. 286; p. 244.
- Lowther, George, Pittsburgh, Pa. Cap for grease-cups. No. 1,382,299; June 21; v. 287; p. 485.
- Lowthrop, William M., Summertown, Tenn. Poultry-nest. No. 1,390,916; Sept. 13; v. 290; p. 365.
- Lowy, Ignatz, Chicago, Ill. Liquid-dispensing apparatus. No. 1,372,968; Mar. 29; v. 284; p. 824.
- Lox Seal Corporation, The. (See Behrman, Marcus B., assignor.)
- Loxterman, Howard B., assignor to Blaw-Knox Company, Pittsburgh, Pa. Road rail or form. No. 1,379,457; May 24; v. 286; p. 769.
- Loyer, Joseph C., Detroit, Mich. Heating system. No. 1,391,394; Sept. 20; v. 290; p. 524.
- Loynes, Owen H., Woodridge, N. J., and A. F. Rose, New Brighton, N. Y., assignors to American Telephone and Telegraph Company. Repeater cord-circuits. No. 1,391,552; Sept. 20; v. 290; p. 556.
- Loyster, James A., Cazenovia, N. Y. Printing-machine. No. 1,366,012; Jan. 18; v. 282; p. 464.
- Lozano, Joaquin G., Madrid, Spain. Thermo-electrical apparatus for boiling and heating purposes. No. 1,390,719; Sept. 13; v. 290; p. 324.
- Lozon, Fred J., Los Angeles, Calif. Folding camp-table. No. 1,373,665; Apr. 5; v. 285; p. 55.
- Lubberger, Fritz, Berlin-Halensee, and W. Pinell, Siemensstadt, near Berlin, Germany, assignor, by mesne assignments, to Western Electric Company, Inc., New York, N. Y. Telephone-exchange system. No. 1,399,066; Dec. 6.
- Lubbock, Oswald J., Alameda, Calif. Sprinkler-head. No. 1,370,464; Mar. 1; v. 284; p. 134.
- Lübeck, Hermann K. E., Lübeck, Germany. Taximeter. No. 1,392,895; Oct. 4.
- Lubé, Henry, College Point, N. Y. Tone-arm bearing for talking-machines. No. 1,378,965; May 24; v. 286; p. 676.
- Lubé, Henry, Astoria, N. Y. Tone-modifier for sound-boxes. No. 1,395,195; Oct. 25.
- Lubeck, Hilding, Hesperud, Sweden. Heating arrangement for rooms and the like. No. 1,391,745; Sept. 27; v. 290; p. 668.
- Lubeck, Hilding, Hesperud, Sweden. Coupling-key. No. 1,397,530; Nov. 22.
- Luber, Solomon, and M. Elbets, New York, N. Y. Pyrophoric igniting device. No. 1,394,917; Oct. 25.
- Lubin, Lewi, New York, N. Y. Watchcase. No. 1,376,776; May 3; v. 286; p. 75.
- Lubken, John C. H., Westmont borough, Pa. Connecting rails. No. 1,374,381; Apr. 12; v. 285; p. 234.
- Luboshez, Nahum E., London, England, assignor to Eastman Kodak Company, Rochester, N. Y. Film-developing rack. No. 1,383,733; July 5; v. 288; p. 99.
- Lucand, Alexander. (See Herreshoff, A. G., and Lucand.)
- Lucand, Alexander, assignor to International Motor Company, New York, N. Y. Four-wheel-brake equalizer. No. 1,379,111; May 24; v. 286; p. 703.
- Lucand, Alexander, assignor to International Motor Company, New York, N. Y. Rear-axle drive. No. 1,379,770; May 31; v. 286; p. 901.
- Lucand, Alexander, assignor to International Motor Company, New York, N. Y. Four-wheel-brake equalizer. No. 1,396,965; Nov. 15.
- Lucas, Arthur W., Fremont, Nebr. Ventilator. No. 1,389,252; Aug. 30; v. 289; p. 887.
- Lucas, Arthur W., Fremont, Nebr. Ventilating apparatus for closet-bowls. No. 1,401,091; Dec. 20.
- Lucas, Frank A., Detroit, Mich. Carburetor. No. 1,368,950; Feb. 15; v. 283; p. 508.
- Lucas, George W., Kansas City, Mo. Fishhook fishing-machine. No. 1,383,474; July 5; v. 288; p. 45.
- Lucas, Herman. (See Schultze, Theodore C., assignor.)
- Lucas, John G., Dearborn, Mich. Signal-indicator for automobiles. No. 1,385,016; July 19; v. 288; p. 495.
- Lucas, Lawrence C., Canton, Ohio. Heater. No. 1,367,064; Feb. 1; v. 283; p. 36.
- Lucas, Louis, Jamestown, N. Y. Cone-molding machine. No. 1,367,196; Feb. 1; v. 283; p. 62.
- Lucas, Orlo A., Richmond, W. Va. Box-gluing apparatus. No. 1,390,052; Sept. 6; v. 290; p. 100.
- Lucas, Paul, Berlin-Friedenau, Germany. Burner for liquid fuel. No. 1,386,267; Aug. 2; v. 289; p. 61.
- Lucas, Roland E. (See Kiley, J. L., and Lucas.)
- Lucas, William H., Claremore, Okla. Inkwell. No. 1,371,103; Mar. 8; v. 284; p. 301.
- Lucas, William J., Fresno, Calif. Violin-body. No. 1,386,183; Aug. 2; v. 289; p. 44.
- Luce, Grafton E., Chicago, Ill. Kiln setting and burning. No. 1,369,752; Feb. 22; v. 283; p. 705.
- Luce, Grafton E., Chicago, Ill. Manufacturing and handling brick. No. 1,384,393; July 12; v. 288; p. 285.
- Luce, Grafton E., Chicago, Ill. Revolving crane for brick-handling. No. 1,384,768; July 19; v. 288; p. 444.
- Luce, Louis L., and L. Mattson, Aberdeen, Wash. Internal-combustion engine. No. 1,390,572; Sept. 13; v. 290; p. 295.
- Lucey Manufacturing Corporation of Tennessee. (See Vreeland, Walter G., assignor.)
- Lucey Manufacturing Corporation. (See Zilen, V. W., and Fair, assignors.)
- Lucey Manufacturing Corporation of Tennessee. (See Zilen, Victor W., assignor.)
- Lucier, Joseph W., assignor of one-half to Harry L. Topping, Kankakee, Ill. Stop mechanism. No. 1,389,367; Aug. 30; v. 289; p. 911.
- Lucier, Joseph W., Kankakee, Ill. Phonograph-stop. No. 1,389,368; Aug. 30; v. 289; p. 911.
- Lucius, Joseph, Solon Springs, Wis. Paddle-lock. No. 1,368,341; Feb. 15; v. 283; p. 390.
- Lucius, Joseph, Champion, Mich. Hatpin-guard. No. 1,397,531; Nov. 22.
- Luck, Charles A., assignor to The Conklin Pen Manufacturing Company, Toledo, Ohio. Fountain-pen. No. 1,380,109; May 31; v. 286; p. 966.
- Lucke, Charles E., New York, N. Y. Splitting sheet material. No. 1,383,133; June 28; v. 287; p. 698.
- Lucke, Charles E., New York, assignor of one-third to L. Wilputte and two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke-oven. No. 1,371,315; Mar. 15; v. 284; p. 405.
- Lucke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. No. 1,400,889; Dec. 20.
- Lucke, Herbert R., Dallas, Tex., assignor to McIntosh & Seymour Corporation, Auburn, N. Y. Process and apparatus for the utilization of heat in oil-engines. No. 1,382,995; June 28; v. 287; p. 672.
- Lucke, William A., New York, N. Y. Sheet-turner. No. 1,392,185; Sept. 27; v. 290; p. 757.
- Luckenbach, John, Los Angeles, Calif. Apparatus for discharging liquid. No. 1,384,965; July 19; v. 288; p. 484.
- Luckenbach Processes. (See Luckenbach, Royer, assignor.)
- Luckenbach, Royer, Philadelphia, Pa., assignor to Luckenbach Processes, (Inc.), San Francisco, Calif. Apparatus for concentrating ores. No. 1,370,601; Mar. 8; v. 284; p. 206.
- Luckenbach, Royer, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif. Frothing and mineral selective agent and using the same. No. 1,386,716; Aug. 9; v. 289; p. 220.
- Luckenbach, Royer, Philadelphia, Pa., assignor to Luckenbach Processes Co. (Inc.), San Francisco, Calif. Apparatus for concentrating ore. No. 1,397,815; Nov. 22.
- Luckett, James S., and C. C. Livesay, Toronto, Ontario, Canada. Desk-tray. No. 1,386,717; Aug. 9; v. 289; p. 221.



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- Lucks, William J., Columbus, Ohio. Valve-grinder. No. 1,396,861; Nov. 15.
- Luckinbill, Benjamin E., Guthrie Center, Iowa. Watering-trough. No. 1,383,646; July 5; v. 288; p. 80.
- Luddy, Paul W., Brookland, D. C. Serving-bowl. No. 1,375,401; Apr. 19; v. 285; p. 494.
- Lüdecke, Karl. (See Connstein, W., and Lüdecke.)
- Ludeman, Oscar H., Hartford, Conn. Heat and low-water indicator. No. 1,390,532; Sept. 13; v. 290; p. 287.
- Luden, Jacob C., Reading, Pa. Dust-collecting machine. No. 1,393,892; Oct. 18.
- Luden, William H. (See Weber, Walter S., assignor.)
- Luder, Ernst, Visp, assignor to Usines Electriques de la Lonza, Gampel, Switzerland. Acetylene-generator. No. 1,377,595; May 10; v. 286; p. 288.
- Ludescher, Edward, Cleveland, Ohio. Pulling attachment for motor-vehicles. No. 1,401,263; Dec. 27.
- Ludlam, Frederick, Taunton, Mass. Flexible conveyer. No. 1,381,574; June 14; v. 287; p. 289.
- Ludlow, George M., Chicago, Ill. Territorial business-chart. No. 1,395,848; Nov. 1.
- Ludlow Manufacturing Associates. (See Burbank, Louis S., assignor.)
- Ludlow, Neville B. (See Watson, G. W., and Ludlow.)
- Ludlum Electric Furnace Corporation. (See Trembours, Max R., assignor.)
- Ludlum Steel Company. (See Armstrong, Percy A. E., assignor.)
- Ludwig, Arthur J., Baxter, Iowa. Coin-operated mechanism for gasoline-vending machines and the like. No. 1,378,590; May 17; v. 286; p. 531.
- Ludwig & Ludwig. (See Danly, Robert C., assignor.)
- Ludwig, Walter M., Boston, Mass., assignor to Federal Arch-Lift Manufacturing Company. Arch-supporter. No. 1,389,767; Sept. 6; v. 290; p. 41.
- Ludwig, William, Bellaire, Ohio. Locking device for automobiles. No. 1,382,800; June 21; v. 287; p. 486.
- Luebben, Melchior L., St. Louis, Mo. Machine for sharpening safety-razor blades. No. 1,382,794; June 28; v. 287; p. 634.
- Luedde, Arthur H., St. Louis, Mo. Furniture. No. 1,394,750; Oct. 25.
- Luedecke, Henry H., Austin, Tex. Sanitary bed-spring cover. No. 1,383,734; July 5; v. 288; p. 99.
- Luedke, Frank J., Saltese, Mont. Harrow. No. 1,384,474; July 12; v. 288; p. 301.
- Luedke, Gustav P., Springfield, Ill. Threshing-machine. No. 1,379,112; May 24; v. 286; p. 704.
- Luedke, Herman A. (See Dorn, H. C., and Luedke.)
- Luehrs, Daniel M., Cleveland, Ohio. Heater for fluids. No. 1,385,664; July 26; v. 288; p. 683.
- Lueky, Erving A., and R. N. Houghton, Detroit, Mich. Coincident maximum-demand relay. No. 1,378,884; May 24; v. 286; p. 661.
- Luellen, Lawrence W., Mountain Lakes, N. J. Dispensing apparatus for sanitary drinking-cups. No. 1,398,030; Nov. 22.
- Luellen, Lawrence W., Mountain Lakes, N. J., assignor. by mesne assignments, to Individual Drinking Cup Company, Inc. Dispensing device. No. 1,365,516; Jan. 11; v. 282; p. 327.
- Luellen, L. W., Mountain Lakes, and E. G. Wessman, Passiac, N. J., assignors to Individual Drinking Cup Company, Incorporated, New York, N. Y. Machine for making paper cups. No. 1,365,517; Jan. 11; v. 282; p. 327.
- Luense, Frederick H., Stapleton, assignor to Aircraft Propeller Corporation, New York, N. Y. Hollow metal propeller. No. 1,372,076; Mar. 22; v. 284; p. 609.
- Lüft, Karl, assignor to the Firm Röhm & Haas, Darmstadt, Hessa, Germany. Silo or filling-trunk for powdered or granular matter. No. 1,385,254; July 19; v. 288; p. 544.
- Luft, Sigmund, Maywood, Ill. Food product. No. 1,380,815; June 7; v. 287; p. 94.
- Luger, Maxamillian, Robbinsdale, Minn. Power-cultivator. No. 1,387,279; Aug. 9; v. 289; p. 332.
- Luhrmann, George W., Jersey City, N. J., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Article and method for hermetically sealing packing vessels. No. 1,379,113; May 24; v. 286; p. 704.
- Luhrmann, George W., Jersey City, N. J., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Method and apparatus for cooling packages in processing. No. 1,385,630; July 26; v. 288; p. 697.
- Luhrmann, George W., Jersey City, N. J., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Device for controlling pressure-processing. No. 1,385,631; July 26; v. 288; p. 697.
- Luick, William F., Milwaukee, Wis. Identification-card holder. No. 1,378,179; May 17; v. 286; p. 453.
- Lukaszewski, Joseph, Hammond, Ind. Work-clamp for bulldozers and like presses. No. 1,382,102; June 21; v. 287; p. 448.
- Luke, James A. (See Smith, P. F., and Luke.)
- Luke, William E., Kalispell, Mont. Artificial hand. No. 1,380,664; July 7; v. 287; p. 64.
- Lukensbach, William W., Philadelphia, Pa. Sanitary telephone device. No. 1,392,840; Oct. 4.
- Lukens Steel Company. (See Haldeman, Paul C., assignor.)
- Lukens, William L. (See Carey, R. R., Lukens, and Mixsell.)
- Lukens, William L., et al. (See Lukens, W. R., and Gallagher, assignors.)
- Lukens, William R., and C. F. Gallagher, assignors of one-fifth to A. T. Pence, one-fifth to A. B. Simpson, one-tenth to J. Gavey, one-tenth to E. F. Stevens, one-fifth to W. R. Lukens, and one-fifth to R. B. McMullen, Hillsboro, Ohio. Mechanical stock-feeder. No. 1,383,222; June 28; v. 287; p. 715.
- Lukesh, Gustave R., U. S. Army. Railway-artillery. No. 1,397,488; Nov. 15.
- Lulham, Thomas R., Johannesburg, South Africa. Boot-protector. No. 1,379,458; May 24; v. 286; p. 769.
- Luling, Emilio, and M. Baroni, Milan, Italy. Beam, girder, or the like. No. 1,390,364; Sept. 13; v. 290; p. 253.
- Lum, Walter O., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical system. No. 1,367,155; Feb. 1; v. 283; p. 54.
- Lum, Walter O., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Switching mechanism. No. 1,370,028; Mar. 21; v. 284; p. 52.
- Lumatainen, William, Albion, Pa. Tire-chain-connecting device. No. 1,389,590; Sept. 6; v. 290; p. 6.
- Lumbard, Wiley, Levasy, Mo. Despatch-holder. No. 1,398,137; Nov. 22.
- Lumley, Wilfrid, Conneaut, Ohio. Lamp-guard. No. 1,369,929; Mar. 1; v. 284; p. 33.
- Lummis, Charles W., assignor to Morgan Construction Company, Worcester, Mass. Gas-producer-regulating mechanism. No. 1,390,454; Sept. 13; v. 290; p. 270.
- Lumpkin, James A., et al. (See Kesot, Benjamin M., assignor.)
- Lumsden, Reginald, Hamilton, Ontario, Canada. Wrench. No. 1,399,633; Dec. 6.
- Lumsden, Thomas, Gateshead, England. Grinding-wheel carrier for horizontal surface-grinding machines. No. 1,373,193; Mar. 29; v. 284; p. 869.
- Lumsden, Thomas, Gateshead, England. Grinding-machine. No. 1,384,966; July 19; v. 288; p. 484.
- Lund, Alfred V. E., Philadelphia, Pa., assignor of one-half to W. J. Strandvick, Haddonfield, N. J. Memorandum card. No. 1,381,925; June 21; v. 287; p. 416.
- Lund, Charles W., Willows, Calif. Motor-driven street-sweeper. No. 1,374,933; Apr. 19; v. 285; p. 403.
- Lund, Charles W., Willows, Calif. Street-sweeping brush. No. 1,399,634; Dec. 6.
- Lund, Clemmen. (See Muhleisen, H. W., and Lund.)
- Lund, Frank A., Hartland, Wis. Snowplow. No. 1,386,066; Aug. 2; v. 289; p. 21.
- Lund, Halvor A., Warren, Ariz. Combination comb and brush. No. 1,386,344; Aug. 2; v. 289; p. 76.
- Lund, Iver. (See Nelson, Swan, assignor.)
- Lund, Jens G. F., Christiania, Norway. Building-stone. No. 1,367,786; Feb. 8; v. 283; p. 236.
- Lund, Joel, San Francisco, Calif. Process of and apparatus for reducing and smelting ores. No. 1,365,113; Jan. 11; v. 282; p. 249.
- Lund, Joel, San Francisco, Calif. Apparatus for making slag. No. 1,366,398; Jan. 25; v. 282; p. 582.
- Lund, John, Bethlehem, assignor to Bethlehem Steel Company, South Bethlehem, Pa. Semi-automatic breech mechanism for guns. No. 1,387,502; Aug. 16; v. 289; p. 429.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Die. No. 1,374,934; Apr. 19; v. 285; p. 404.
- Lund, Thomas, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Compressing apparatus. No. 1,381,207; June 14; v. 287; p. 221.
- Lund, Thomas, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stacking mechanism. No. 1,381,318; June 14; v. 287; p. 241.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting mechanism. No. 1,382,006; June 21; v. 287; p. 431.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for and method of treating heels. No. 1,384,139; July 12; v. 288; p. 232.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-compressing machine. No. 1,386,639; Aug. 9; v. 289; p. 204.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-heating device. No. 1,390,998; Sept. 20; v. 290; p. 443.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for handling stain. No. 1,391,395; Sept. 20; v. 290; p. 524.
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Preparation of heel-blanks. No. 1,401,165; Dec. 27.
- Lundberg, Nels A., Moline, Ill. Holding and display rack for literature, music, and art. No. 1,366,813; Jan. 25; v. 282; p. 666.
- Lundell, Alvin O., assignor to The Allbright-Nell Co., Chicago, Ill. Viscera-separating machine. No. 1,365,708; Jan. 13; v. 282; p. 404.



*Alphabetical list of patentees—Continued.*

- Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,375,712; Apr. 26; v. 285; p. 585.
- Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,381,480; June 14; v. 287; p. 271.
- Lundell, Alben E., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,387,280; Aug. 9; v. 289; p. 332.
- Lundell, George A. E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,401,544; Dec. 27.
- Lundell, Robert, New York, N. Y. Projectile. No. 1,384,841; July 19; v. 288; p. 459.
- Lundell, Robert A., Athens, Pa., assignor to Ingersoll Rand Company, Jersey City, N. J. Piston and connecting-rod construction. No. 1,371,701; Mar. 15; v. 284; p. 481.
- Lundell, Victor S., and G. E. Eckberg, Jamestown, N. Y. Hinge for casement-windows. No. 1,383,647; July 5; v. 288; p. 80.
- Lundene, Otto M., Flint, Mich. Hog-catcher. No. 1,382,520; June 21; v. 287; p. 528.
- Lundgren, Carl J., Mount Jewett, Pa., assignor of one-half to H. J. Walter, Bradford, Pa. Hose-clamp. No. 1,383,134; June 28; v. 287; p. 698.
- Lundgren, Charles H. (See Chirpe, W., and Lundgren.)
- Lundgren, Edwin, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Automatic stoker. No. 1,397,642; Nov. 22.
- Lundgren, Jacob, Philadelphia, Pa., assignor to Carlson-Wenstrom Co. Balancing-machine. No. 1,398,333; Nov. 29.
- Lundie, John, New York, N. Y., and W. R. Dunham, Jr., New Haven, Conn. Railway-rail. No. 1,380,725; June 7; v. 287; p. 76.
- Lundie, John, New York, N. Y., and G. W. Whiteman, Philadelphia, Pa. Tie-plate. No. 1,381,575; June 14; v. 287; p. 290.
- Lundin, Andreas P. (See Twombly, A. H., Lundin, and Marr.)
- Lundin, Andreas P., Bayside, N. Y., assignor to American Balsa Company, Inc. Life-preserver. No. 1,394,180; Oct. 18.
- Lundin, Emil O., Newton Center, assignor to Standard Crayon Manufacturing Company, Danvers, Mass. Assembling-machine. No. 1,365,257; Jan. 11; v. 282; p. 277.
- Lundin, Emil O., Newton Center, assignor to Standard Crayon Manufacturing Company, Danvers, Mass. Corrugating-machine. No. 1,365,258; Jan. 11; v. 282; p. 277.
- Lundin, Emil O., Newton Center, assignor to Standard Crayon Manufacturing Company, Danvers, Mass. Crayon-box. No. 1,366,399; Jan. 25; v. 282; p. 583.
- Lundin, Karl G., Los Angeles, Calif. Gas-furnace. No. 1,389,253; Aug. 30; v. 289; p. 888.
- Lundin, Mattias O., Los Angeles, Calif. Liquid-level gage. No. 1,394,031; Oct. 18.
- Lundin, Ragnai O. W., assignor to Barber Electric Manufacturing Company, North Attleboro, Mass. Electric switch. No. 1,370,138; Mar. 1; v. 284; p. 72.
- Lundin, Trued B., assignor to American Machinery Co., Inc., Philadelphia, Pa. Machine for closing and sealing envelopes. No. 1,374,593; Apr. 12; v. 285; p. 276.
- Lundmark, Johannes, Askim, Sweden, assignor to Laulia Navigations-Instrument Aktiebolaget, Gothenburg, Sweden. Screwdriver with gripping arrangement for holding the screws. No. 1,399,635; Dec. 6.
- Lundquist, August, Chicago, Ill. Printing-press attachment. No. 1,384,203; July 12; v. 288; p. 245.
- Lundquist, Frank A., Chicago, Ill., assignor, by mesne assignments, to Western Electric Company, Incorporated. Automatic telephone-exchange. No. 1,369,288; Feb. 22; v. 283; p. 613.
- Lundquist, Frank A., assignor to C. L. Redfield, trustee, Chicago, Ill. Bank-contact. No. 1,369,680; Feb. 22; v. 283; p. 690.
- Lundquist, Frank A., Portland, Oreg., assignor, by mesne assignments, to Western Electric Company, Incorporated. Telephone-exchange. (Reissue.) No. 15,048; Feb. 22; v. 283; p. 707.
- Lundquist, Hendrick W., San Diego, Calif. Automatic advertising-machine. No. 1,399,438; Dec. 6.
- Lundquist, Levi, Middletown, Calif. Grafting-valve. No. 1,380,992; June 7; v. 287; p. 128.
- Lundskow, Henry P. (See Martinson, William, assignor.)
- Lundstrom, Berger I., Little Falls, N. Y. Package-carrier. No. 1,365,518; Jan. 11; v. 282; p. 328.
- Lundstrom, Charles G., Birmingham, Ala. Attachment for lawn-rakes. No. 1,371,499; Mar. 15; v. 284; p. 442.
- Lundstrom, John A., assignor to Nelson Tool Company, Inc., New York, N. Y. Fastener. No. 1,366,574; Jan. 25; v. 282; p. 618.
- Lundstrom, William C., Minneapolis, Minn. Bed for automobiles. No. 1,375,100; Apr. 19; v. 285; p. 436.
- Lundy, Edwin K., Jr., et al. (See Charleson, Donald, assignor.)
- Lunenburg, Gustav H., Chicago, Ill. Garter. No. 1,387,058; Aug. 9; v. 289; p. 190.
- Lunep, Joseph, South River, N. J. Textile-finishing drum. No. 1,377,900; May 10; v. 286; p. 348.
- Lungren, John F., assignor of one-half to S. P. Kentworthy, Philadelphia, Pa. Protective storage-casing for inner tubes. No. 1,387,549; Aug. 16; v. 289; p. 439.
- Lunken, Edmund H. (See Stickle, Frederick A., assignor.)
- Lunken Window Company, The. (See Stickle, Frederick A., assignor.)
- Lunkenheimer Company, The. (See Aull, Jerome J., assignor.)
- Lunt, Fred L., and P. F. Hatch, assignors to Amesbury Seat Manufacturing Company, Amesbury, Mass. Cow-ventilator for motor-vehicles. No. 1,385,255; July 19; v. 288; p. 544.
- Lunt, Laurence C., New Haven, Conn. Ring used in connection with animal-traps for fastening end of chain to objects. No. 1,376,892; May 3; v. 286; p. 98.
- Lupinacci, Antonio. (See Rabuazzo, Salvatore, assignor.)
- Luplow, Ronald, Phoenix, Ariz. Automobile-lock. No. 1,398,905; Nov. 29.
- Luppino, Joseph, New York, N. Y. Convertible davenport-bed. No. 1,386,789; Aug. 9; v. 289; p. 235.
- Lupton, Benjamin M., Jr., Jersey City, N. J. Rotary engine. No. 1,393,802; Oct. 18.
- Lurie, Edward, et al. (See Harris, Benjamin, assignor.)
- Lurie, Michael, et al. (See Harris, Benjamin, assignor.)
- Lurie, William A. (See Holbrook, Rolfe R., assignor.)
- Lurie, William A., New Orleans, La. Dental forceps. No. 1,380,726; June 7; v. 287; p. 76.
- Lurie, William A., New Orleans, La. Door-lock. No. 1,401,166; Dec. 27.
- Lurry, Abner J., Baton Rouge, La. Press-cloth-repairing machine. No. 1,396,644; Nov. 8.
- Luschen, Henry J., assignor to The United States Malleable Iron Co., Toledo, Ohio. Wheelbarrow reinforcement. No. 1,375,921; Apr. 26; v. 285; p. 625.
- Luschka, August R., and J. Folk, assignor to U. S. Slicing Machine Company, Laporte, Ind. Stacker for slicing machines. No. 1,376,775; May 3; v. 286; p. 74.
- Luschka, August R., and J. Folk, assignors to U. S. Slicing Machine Company, Laporte, Ind. Adjustable support. No. 1,394,631; Oct. 25.
- Lutes, William, San Antonio, Tex. Electric edge heel and shank setter. No. 1,365,519; Jan. 11; v. 282; p. 328.
- Lutgers, Fred, et al. (See Williams, Frank, assignor.)
- Luther, John A., Schenectady, N. Y. Spark-plug. No. 1,380,399; June 7; v. 287; p. 14.
- Lütolf-Bill, Johanna. (See Lütolf, Otto, assignor.)
- Lütolf, Otto, assignor to J. Lütolf-Bill, St. Gallen, Switzerland. Bookbinding. No. 1,374,805; Apr. 12; v. 285; p. 220.
- Lutsey, George E., Wilkes-Barre, Pa. Emergency rear wheel axle and hub. No. 1,395,921; Nov. 1.
- Lutsky, Harry, Stapleton, N. Y. Auxiliary fuel-tank for motor-vehicles. No. 1,398,334; Nov. 29.
- Lutterbach, Henry, Armstrong, Ind. Steering device for tractors. No. 1,394,203; Oct. 18.
- Luttmer, Ludwig D., Wylie, Minn. Tool-holder. No. 1,384,669; July 12; v. 288; p. 343.
- Luttrell, James B. (See Dicks, T. A., and Luttrell.)
- Lüttringhaus, Arthur, Mannheim, and L. Eiffelaender, Ludwigshafen-on-the-Rhine, Germany, assignors to A. Kuttroff, New York, N. Y. Manufacture of anthraquinone derivatives and new products resulting therefrom. No. 1,394,851; Oct. 25.
- Lutz, Belton L., assignor to International Money Machine Company, Reading, Pa. Type-carrier. No. 1,396,938; Nov. 15.
- Lutz, Edward H., Milwaukee, Wis. Window-sash holder. No. 1,367,749; Feb. 8; v. 283; p. 229.
- Lutz, Henri E., Pittsburgh, Pa. Apparatus for recovering and securing volatile products from relatively-fixed heat-resistant substances. No. 1,389,203; Aug. 30; v. 289; p. 877.
- Lutz, Henry M., New York, N. Y. Glazing-clip. No. 1,385,217; July 19; v. 288; p. 536.
- Lutz, William F. J., Chicago, Ill. Drain-fitting. No. 1,375,222; Apr. 19; v. 285; p. 460.
- Lutzhoff, Elmer E., Jamestown, N. Y. Lid-support. No. 1,378,591; May 17; v. 286; p. 532.
- Lux Clock Manufacturing Company. (See Lux, Paul, assignor.)
- Lux, George J., and J. Wilcox, Independence, Kans. Scaffold. No. 1,395,346; Nov. 1.
- Lux, James H., Thompson Falls, Mont. Electric-circuit breaker. No. 1,369,035; Feb. 22; v. 283; p. 565.
- Lux, Paul, assignor to The Lux Clock Manufacturing Company, Inc., Waterbury, Conn. Alarm-clock. No. 1,386,881; Aug. 9; v. 289; p. 254.
- Lux, Paul, assignor to Lux Clock Manufacturing Company, Inc., Waterbury, Conn. Clock-frame. No. 1,398,597; Nov. 29.
- Luzenberg, Edward A., San Antonio, Tex. Stand for rolled goods. No. 1,390,299; Sept. 13; v. 290; p. 240.
- Luzy, Antoine, Paris, France. Electromagnetic apparatus intended to magnetize permanent magnets. No. 1,398,526; Nov. 29.
- L-W-F Engineering Company, Inc. (See Thomas, Stephen, assignor.)
- Lycoming Rubber Company. (See Trull, Lyman A., assignor.)
- Lyda, Arthur W., North Canton, Ohio. Life-raft. No. 1,369,289; Feb. 22; v. 283; p. 613.
- Lydine, Peter R., Sacramento, Calif. Hinge. No. 1,382,996; June 28; v. 287; p. 672.
- Lydon, Timothy, Baltimore, Md. Building slab or tile. No. 1,379,636; May 31; v. 286; p. 877.



## Alphabetical list of patentees—Continued.

- Lykken, Henry G., Minneapolis, assignor to Western Pump and Machinery Company, St. Paul, Minn. Crosshead mechanism of double-plunger pumps. No. 1,364,636; Jan. 4; v. 282; p. 113.
- Lyle, Gordon H., East Falls Church, Va. Full-stroke-compelling device. No. 1,378,701; May 17; v. 286; p. 553.
- Lyle, Sarah M., Bridgeport, Ohio. Fire-escape. No. 1,397,643; Nov. 22.
- Lyle, Robert F. (See Simpson, G. W. S., and Lyle, assignors.)
- Lyle, William H., Live Oak, Fla. Mixer. No. 1,370,329; Mar. 1; v. 284; p. 109.
- Lyman, Norman K., San Francisco, Calif. Cane-harvester. No. 1,383,833; July 5; v. 288; p. 119.
- Lyman, Sarah E., Cleveland, Ohio. Collapsible globe. No. 1,375,853; Apr. 26; v. 285; p. 612.
- Lyman, Walter H., assignor to The American Perforator Company, Chicago, Ill. Perforating-machine. No. 1,394,566; Oct. 25.
- Lyman, Arthur H., Westminster, London, England. Generation and utilization of producer-gas. No. 1,388,052; Aug. 16; v. 289; p. 538.
- Lynch Glass Machinery Company. (See Bridges, Edward G., assignor.)
- Lynch, James B., Syracuse, N. Y. Non-collapsible tire. No. 1,398,700; Nov. 29.
- Lynch, Jerome E., Newton Center, and J. W. Woodward, Brookline, Mass. Lock for steering-posts. No. 1,392,186; Sept. 27; v. 290; p. 757.
- Lynch, John, and C. McGuire, Seattle, Wash. Stump-chopping machine. No. 1,391,131; Sept. 20; v. 290; p. 471.
- Lynch, John H., *et al.* (See Carlson, Ivar, assignor.)
- Lynch, Joseph H., Asbury Park, N. J. Safety-pin. No. 1,369,822; Mar. 1; v. 284; p. 13.
- Lynch, Joseph H., Asbury Park, N. J. Clasp. No. 1,369,823; Mar. 1; v. 284; p. 13.
- Lynch, Lawrence, Los Angeles, Calif. Rim. No. 1,401,264; Dec. 27.
- Lynch, Peter J., Omaha, Nebr. Auxiliary carbureter. No. 1,391,899; Sept. 27; v. 290; p. 699.
- Lynch, Thomas, Jefferson, Iowa. Hog-eating poultry-protector or hog-muzzle. No. 1,398,031; Nov. 22.
- Lynch, William H., Berkeley, Calif. Illuminator for license-plates. No. 1,378,548; May 17; v. 286; p. 523.
- Lynch, William J., Buffalo, N. Y. Dish-holding tray or basket. No. 1,371,253; Mar. 15; v. 284; p. 393.
- Lyndon, Lamar, Orange, N. J. System of electrical distribution. No. 1,396,446; Nov. 8.
- Lyndon, Lamar, assignor to Edison Storage Battery Company, West Orange, N. J. Storage-battery assembly. No. 1,364,390; Jan. 4; v. 282; p. 66.
- Lyndon, Lamar, assignor to Edison Storage Battery Company, West Orange, N. J. Storage battery. No. 1,388,656; Aug. 23; v. 289; p. 714.
- Lyndon, Lamar, assignor to Edison Storage Battery Company, West Orange, N. J. Electrode-plate for storage batteries. No. 1,390,629; Sept. 13; v. 290; p. 308.
- Lynes, Fred, Johnstown, N. Y. Fire-kindling device. No. 1,401,803; Dec. 27.
- Lynes, Gorham M., Brooklyn, N. Y. Advertising display device. No. 1,386,126; Aug. 2; v. 289; p. 33.
- Lynn, Arthur H., London, England, L. A. Rkey, 2d, New York, N. Y., and N. E. Rambush, London, England. Gas-producer. No. 1,380,993; June 7; v. 287; p. 129.
- Lynn, Clarence F., Canandaigua, N. Y. Automobile direction-signal. No. 1,391,686; Sept. 27; v. 290; p. 656.
- Lynn, George F., assignor to Packard Motor Car Company, Detroit, Mich. Making hydrocarbon-motors. No. 1,386,007; Aug. 2; v. 289; p. 9.
- Lynn, James. (See Schaefer, Frank M., assignor.)
- Lynn, John, New York, N. Y. Window-ventilator. No. 1,393,556; Oct. 11.
- Lynn, John T., Seattle, Wash. Farm-gate construction. No. 1,373,011; Mar. 29; v. 284; p. 833.
- Lynn, Leon T., Berkeley, Calif. Threading-tool. No. 1,382,841; June 28; v. 287; p. 643.
- Lyon, Edmund, and A. F. Williams, assignors to North East Electric Company, Rochester, N. Y. Motor-mounting. No. 1,396,966; Nov. 15.
- Lyon, Edward H., Cleveland, Ohio. Respirating device. No. 1,371,702; Mar. 15; v. 284; p. 482.
- Lyon, Elmer E., Harrisonville, Mo. Device for checking the rocking and rebounding of vehicles. No. 1,385,565; July 26; v. 288; p. 683.
- Lyon, Frederick C., Sr., Horseheads, N. Y. Wrench. No. 1,390,917; Sept. 13; v. 290; p. 365.
- Lyon, George A., Philadelphia, Pa. Automobile-tire holder. No. 1,386,184; Aug. 2; v. 289; p. 44.
- Lyon, George A., Philadelphia, Pa. Automobile-tire holder. No. 1,386,185; Aug. 2; v. 289; p. 45.
- Lyon, George A., Philadelphia, Pa. Resilient automobile-buffer. No. 1,386,186; Aug. 2; v. 289; p. 45.
- Lyon, George A., Philadelphia, Pa. Tire-holder. No. 1,386,187; Aug. 2; v. 289; p. 45.
- Lyon, George A., Philadelphia, Pa. Tire-holder. No. 1,386,188; Aug. 2; v. 289; p. 45.
- Lyon, George A., Philadelphia, Pa. Automobile bumper or buffer device. No. 1,386,189; Aug. 2; v. 289; p. 45.
- Lyon, George A., Philadelphia, Pa. Adjustable automobile-buffer. No. 1,386,190; Aug. 2; v. 289; p. 46.
- Lyon, George A., Philadelphia, Pa. Resilient automobile-buffer. No. 1,386,191; Aug. 2; v. 289; p. 46.
- Lyon, Harold J. (See Scully, T. E., and Lyon.)
- Lyon & Healy. (See Jefferson, B. H., and Kirk, assignors.)
- Lyon & Healy. (See Jefferson, Benjamin H., assignor.)
- Lyon & Healy. (See Kirk, Walter I., assignor.)
- Lyon, Leonidas N., San Antonio, Tex. Treating wood. No. 1,382,103; June 21; v. 287; p. 448.
- Lyon Metallic Manufacturing Company. (See Gerberich, Clarence E., assignor.)
- Lyon Metallic Manufacturing Company. (See O'Connor, John B., assignor.)
- Lyon Metallic Manufacturing Company. (See Shiek, Daniel W., assignor.)
- Lyon, Robert V., Buffalo, N. Y., assignor to The American Laundry Machinery Company, Norwood, Ohio. Curtain stretcher and drier. (Reissue.) No. 15,086; Apr. 12; v. 285; p. 335.
- Lyons, Charles D., Mansfield, Mass. Cuff-button. No. 1,388,522; Aug. 23; v. 289; p. 689.
- Lyons, Harry C., New York, N. Y. Dispensing means for beverages containing chocolate, cocoa, &c. No. 1,367,823; Feb. 8; v. 283; p. 243.
- Lyons, Harvey E., Baltimore, Md. Combined strainer and fat-separator. No. 1,387,789; Aug. 16; v. 289; p. 487.
- Lyons, Henry C., Dundee, Minn. Combination bench, ironing-board, and drying-rack. No. 1,366,127; Jan. 18; v. 282; p. 486.
- Lyons, James G., Stockton, Calif. Broom-holder. No. 1,370,217; Mar. 1; v. 284; p. 87.
- Lyons, Leo D., and C. F. Hoff, Butte, Mont. Flotation-machine. No. 1,389,674; Sept. 6; v. 290; p. 23.
- Lyons, P. J., *et al.* (See Nelson, De Witt, assignor.)
- Lyons, William A., Litchfield, Minn. Time-indicating device. No. 1,390,801; Sept. 13; v. 290; p. 341.
- Lyons, William A., Litchfield, Minn. Time-indicating device. No. 1,397,319; Nov. 15.
- Lysle, Edmond H. (See Hill, M. F. and L. D., assignors.)
- Lysle, Edmond H., New York, N. Y. Optical apparatus and using the same. No. 1,367,487; Feb. 1; v. 283; p. 120.
- Lysle, Edmond H., New York, N. Y. Optical apparatus. No. 1,367,488; Feb. 1; v. 283; p. 120.
- Lysle, Edmond H., New York, N. Y. Optical apparatus and using the same. No. 1,375,922; Apr. 26; v. 285; p. 625.
- Lysle, Edmond H., New York, N. Y. Optical device. No. 1,375,923; Apr. 26; v. 285; p. 625.
- Lyster, Fleury J., Broken Hill, New South Wales, Australia, assignor by mesne assignments, to Minerals Separation North American Corporation. Apparatus for the concentration of ores. No. 1,380,665; June 7; v. 287; p. 65.
- Lyster, Herman S., Indianapolis, Ind. Tire-protecting antiskid appliance. No. 1,398,732; Nov. 29.
- Lyster, T. L. B., and K. E. Stuart, Niagara Falls, assignors to Hooker Electrochemical Company, New York, N. Y. Apparatus for electrolyzing solutions. No. 1,388,474; Aug. 23; v. 289; p. 680.
- Lytie, Charles R. (See Malignan, J., and Lytie.)
- Lytie, Edward C., Watertown, N. Y. Glare-reflector. No. 1,399,356; Dec. 6.
- Lytie, James D., Penn., and S. Clark, Grangeville, Idaho. Combined road grading and leveling machine. No. 1,393,385; Oct. 11.
- M. L. Patents Corporation. (See Lisowski, Maryan L., assignor.)
- M. S. Company. (See Nittel, Frederick W., assignor.)
- M-V All Weather Train Controller Company. (See Minnick, Alfred, assignor.)
- Maag, Max, Zurich, Switzerland. Toothed gearing. No. 1,396,338; Nov. 8.
- Maas, Gerhard, New Orleans, La. Meter connection. No. 1,371,041; Mar. 8; v. 284; p. 289.
- Maas, August L. (See Wensauer, Max, assignor.)
- Mabbitt, Alan T. (See Adam, M. A., Stevenson, Mabbitt, and Fieldhouse.)
- Mabbitt, Alan T. (See Adam, M. A., Stevenson, and Mabbitt.)
- Mabey, Charles W., Indianapolis, Ind. Glue-pot. No. 1,376,823; May 3; v. 286; p. 84.
- Mable, William, assignor of forty-nine one-hundredths to C. C. Christensen, Fort Collins, Colo. Beet-loader. No. 1,378,705; May 17; v. 286; p. 554.
- Mabry, Raymond A., Temple, Tex. Restaurant serving mechanism. No. 1,367,161; Feb. 1; v. 283; p. 55.
- Maby, Adelbert C. (See Meitner, E., and Maby.)
- MacAulay, Angus B., Winnipeg, Manitoba, Canada. Detachable-shoe colter. No. 1,369,037; Feb. 22; v. 283; p. 555.
- MacArthur, Duncan A., Ottawa, Ontario, Canada, assignor to The Goodyear Tire & Rubber Company of Canada Limited, Toronto, Ontario, Canada. Belt or strap. No. 1,392,256; Sept. 27; v. 290; p. 772.
- MacBain, Donald R., Cleveland, Ohio. Air-brake system. No. 1,378,365; May 17; v. 286; p. 488.
- MacBeth, Donald, Montreal, Quebec, Canada. Lifeboat-supporting apparatus. No. 1,385,258; July 19; v. 288; p. 544.
- Macartney, Arthur C., Syracuse, N. Y. Teat-cup. No. 1,397,840; Nov. 22.
- Macauley, John J., Grand Rapids, Mich. Oil-burner. No. 1,364,637; Jan. 4; v. 282; p. 114.
- Macauley, Malcolm. (See Stanford, M. L., and Macauley.)



*Alphabetical list of patentees—Continued.*

- Macbeth, Allan, assignor to Sté The Dunlop Rubber Co. Limited, Paris, France. Petrol-tank and the like. No. 1,397,383; Nov. 15.
- Macbeth, Colin, Birmingham, England, assignor to The Dunlop Rubber Company Limited, Westminster, London, England. Vehicle-wheel. No. 1,365,637; Jan. 11; v. 282; p. 350.
- Macbeth, Colin, and F. Fellowes, Birmingham, assignors to The Dunlop Rubber Company, Limited, Westminster, London, England. Machine for making pneumatic-tire covers or casings. No. 1,397,133; Nov. 15.
- Maccallum, Patrick F., Glasgow, Scotland. Utilizing solid fuel for internal combustion. No. 1,371,042; Mar. 8; v. 284; p. 290.
- MacCarthy, Marion S., Denver, Colo. Separator. No. 1,364,945; Jan. 11; v. 282; p. 217.
- MacCordy, Herman R., Fulton, N. Y. Work centering and balancing device for the face-plates of lathes. No. 1,386,128; Aug. 2; v. 289; p. 33.
- MacCormack, David D. and M. A., Boston, Mass. Carrier for laundry articles. No. 1,385,695; July 26; v. 288; p. 710.
- MacCormack, Mary A. (See MacCormack, David D. and M. A.)
- MacCoy, Andrew T., Dover, and R. F. Allen, Whitman, assignors to The United Telegram Company, Boston, Mass. Telegraph printing apparatus. No. 1,365,004; Jan. 11; v. 282; p. 229.
- Macdermid, James H., assignor to Dodge Brothers, Detroit, Mich. Chain-driving mechanism. No. 1,370,029; Mar. 1; v. 284; p. 52.
- MacDonagh, Frank L., assignor to Acme Card System Company, Chicago, Ill. Visible index. No. 1,375,464; Apr. 19; v. 285; p. 506.
- Macdonald, Albert B., and T. W. Wallace, Clare, South Australia, Australia. Fastener for mail-bags and the like. No. 1,388,735; Aug. 23; v. 289; p. 730.
- Macdonald, Angus S., Great Neck Station, N. Y., and H. P. Macdonald, Montclair, N. J., assignors to The Sneed & Co. Iron Works, Jersey City, N. J. Method of and apparatus for heat-treating structural members. No. 1,376,106; Apr. 26; v. 285; p. 661.
- Macdonald, Angus S., Great Neck Station, N. Y., assignor to The Sneed & Co. Iron Works, Jersey City, N. J. Table or desk novelty. No. 1,380,402; June 7; v. 287; p. 14.
- MacDonald, Clifford K., Brockton, assignor to United Shoe Machinery Corporation, Boston, Mass. Tack-pulling machine. No. 1,372,890; Mar. 29; v. 284; p. 808.
- Macdonald, David B., Leicester, England. Manufacture of picric acid. No. 1,396,001; Nov. 1.
- Macdonald, Donald, Melbourne, Victoria, Australia. Lighting system of vehicles. No. 1,378,885; May 24; v. 286; p. 661.
- MacDonald, Donald N., Boston, Mass. Transparent glass screen for transmitting substantially white light from incandescent electric lamps. No. 1,393,804; Oct. 18.
- Macdonald, Duncan, Pittsburgh, Pa. Tubular boiler. No. 1,365,713; Jan. 18; v. 282; p. 405.
- Macdonald, Frank D., Syracuse, N. Y. Safety appliance for street-cars. No. 1,385,259; July 19; v. 288; p. 545.
- MacDonald, Frank J., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Selvage-trimmer. No. 1,367,068; Feb. 1; v. 283; p. 37.
- MacDonald, Frank J., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Machine for manufacturing cord binding. No. 1,369,826; Mar. 1; v. 284; p. 14.
- MacDonald, Frank J., Akron, Ohio., assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for lining receptacles. No. 1,399,780; Dec. 13.
- Macdonald, George C., Elmhurst, N. Y. Merchandise-package. No. 1,385,017; July 19; v. 288; p. 495.
- MacDonald, George M., San Bernardino, Calif. Artificial honeycomb and the art of and means for making the same. No. 1,383,650; July 5; v. 288; p. 81.
- Macdonald, Harry P. (See Macdonald, Angus S. and H. P.)
- Macdonald, Harry P., Montclair, assignor to The Sneed & Co. Iron Works, Jersey City, N. J. Flexible joint. No. 1,376,107; Apr. 26; v. 285; p. 661.
- Macdonald, Harry P., Montclair, N. J., and W. S. Thomson, Plantsville, Conn., assignors to The Sneed & Co. Iron Works, Jersey City, N. J. Joining metal parts. No. 1,388,657; Aug. 23; v. 289; p. 714.
- MacDonald, Howard G. (See Mahoney, J. N., and MacDonald.)
- MacDonald, Jack B., Oakland, Calif. Internal-combustion engine. No. 1,378,254; May 17; v. 286; p. 467.
- MacDonald, John A., Blairmore, Alberta, Canada. Shot-firing device. No. 1,377,086; May 3; v. 286; p. 135.
- MacDonald, John A. (See Johnsen, Arthur, assignor.)
- MacDonald, John E. (See Walton, R. T., and MacDonald.)
- MacDonald, John F., Chester, Pa. Grinding-tool. No. 1,392,426; Oct. 4.
- Macdonald, John W. F., Brighton, Mass., assignor to The Merrill Process Company. Hydrocarbon-burner. No. 1,394,567; Oct. 25.
- Macdonald, Thomas A., Paterson, N. J. Aeroplane. No. 1,389,257; Aug. 30; v. 289; p. 888.
- MacDonald, William W. (See Davis, W. W., and MacDonald.)
- MacDonald, William W., San Francisco, Calif. Hydraulic-ram control. No. 1,395,001; Oct. 25.
- MacDonnell, James, Haverhill, Mass. Cigarette-former. No. 1,385,018; July 19; v. 288; p. 496.
- Macdonough, Raymond E., Minneapolis, Minn. Filler-cup and closure for pressure-tanks. No. 1,397,320; Nov. 15.
- MacDougald, Snow F., and E. E. Bohan, Cap Tourmente, Quebec, Canada. Dipper-tooth designed for use on shovels. No. 1,401,804; Dec. 27.
- MacDougall, Archibald J., assignor to National Electro Products, Limited, Toronto, Ontario, Canada. Electrode. No. 1,366,404; Jan. 25; v. 282; p. 584.
- MacDougall, Archibald J., Toronto, Ontario, Canada, assignor of one-sixth to H. C. Bugbird, New York, one-sixth to J. G. Rowe, and one-half to R. H. Bennett, North Tonawanda, N. Y. Producing ferrous oxid. No. 1,367,409; Feb. 1; v. 283; p. 105.
- MacDougall, Archibald J., assignor to National Electro Products Limited, Toronto, Ontario, Canada. Process and apparatus for hydrogenating oils. No. 1,381,319; June 14; v. 287; p. 241.
- MacDougall, Harry W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,381,483; June 14; v. 287; p. 271.
- MacDougal, Daniel T., Tucson, Ariz. Tree-growth-measuring instrument. No. 1,385,139; July 19; v. 288; p. 521.
- MacDougal, Harry W., East Orange, and H. D. MacPherson, Maplewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,387,284; Aug. 9; v. 289; p. 333.
- MacDowall, John L. (See Bassford, William K., assignor.)
- Mace, Arthur T., assignor to The Domestic Electric Company, Cleveland, Ohio. Driving mechanism for sewing-machines. No. 1,394,320; Oct. 18.
- Macé, Jules, Grasse, France. Lock. No. 1,390,147; Sept. 6; v. 290; p. 119.
- Macera, Humberto, Buenos Aires, Argentina. Protective covering or envelop for containers of glass. No. 1,364,774; Jan. 4; v. 282; p. 140.
- Macfadden, Bernarr, New York, N. Y. Portable air cooler, moistener, and purifier. No. 1,394,924; Oct. 25.
- MacFarland, Allison M., Wilkinsburg, Pa., assignor to L. M. Kohn, Buffalo, N. Y. Sheet-folding machine. (Reissue.) No. 15,242; Dec. 6.
- MacFarlane Communications Corporation. (See MacFarlane, William W., assignor.)
- MacFarlane, James W., et al. (See Anderson, Albin E., assignor.)
- MacFarlane, John M., San Francisco, Calif. Rotary engine. No. 1,385,084; July 19; v. 288; p. 509.
- Macfarlane, Scott B., and L. J. Barry, Newport, R. I., assignors to Government of the United States. Gyroscope. No. 1,382,372; June 21; v. 287; p. 499.
- Macfarlane, William W., Philadelphia, Pa. Translating device. No. 1,367,613; Feb. 8; v. 283; p. 202.
- Macfarlane, William W., Elkins Park, Pa. System of communication. No. 1,370,333; Mar. 1; v. 284; p. 109.
- Macfarlane, William W., Elkins Park, Pa., assignor to Macfarlane Communications Corporation, New York, N. Y. Track-circuit system. No. 1,383,319; July 5; v. 288; p. 12.
- Macfarlane, William W., Elkins Park, Pa., assignor to Macfarlane Communications Corporation, New York, N. Y. Track-circuit system. No. 1,383,320; July 5; v. 288; p. 13.
- Macfarlane, William W., Philadelphia, Pa., assignor to Macfarlane Communications Corporation, New York, N. Y. Electrical system of train communication. No. 1,389,258; Aug. 30; v. 289; p. 888.
- Macfarren, Walter W., trustee. (See Macfarren, W. W. and Gray, assignors.)
- Macfarren, Walter W., Pittsburgh, and T. W. Gray, Heidelberg, Pa., assignors to said Walter W. Macfarren, trustee. Gas-engine. No. 1,370,503; Mar. 8; v. 284; p. 142.
- MacGill, Charles F. (See Smith, Charles G., assignor.)
- Macgill, Robert R. (See Delano, Carl S., assignor.)
- MacGowan, George P., New York, N. Y. Portable baby-carrier. No. 1,366,405; Jan. 25; v. 282; p. 584.
- MacGregor, John. (See Holman, R. H., and MacGregor.)
- MacGregor, Peter, and A. Balfour, Sheffield, England. Steel. No. 1,375,255; Apr. 19; v. 285; p. 466.
- MacGregor, Peter G., New York, N. Y., assignor to Pyrene Manufacturing Company. Thermal valve. No. 1,371,043; Mar. 8; v. 284; p. 290.
- MacGregor, Peter G., New York, N. Y., assignor to Pyrene Manufacturing Company. Spray-nozzle. No. 1,395,442; Nov. 1.
- MacGregor, Roderick J. (See Pierce, Henry N., assignor.)
- Machado, William C., Montecito, assignor of one-half to Dimitrios Gymnaltis, Santa Barbara, Calif. Automatic grease-cup. No. 1,394,435; Oct. 18.
- Machinery Company of America. (See Hedstrom, John P., assignor.)
- Machine Products Company. (See Johns, George M., assignor.)
- Macho, John, New York, N. Y. Clutch. No. 1,364,392; Jan. 4; v. 282; p. 67.



## Alphabetical list of patentees—Continued.

- Maciejewski, Joseph, Krakow, Wis. Hog-feeding device. No. 1,367,614; Feb. 8; v. 283; p. 203.
- MacIndoe, John F., Philadelphia, Pa. Flexible lubricant-container. No. 1,379,197; May 24; v. 286; p. 720.
- MacInnes, Duncan A., Boston, Mass., assignor to F. C. Huyck & Sons, Albany, N. Y. Porosimeter. No. 1,371,565; Mar. 15; v. 284; p. 456.
- MacIntyre, Anna A., Hartford, Conn. Hair-form. No. 1,368,567; Feb. 15; v. 283; p. 435.
- MacIntyre, Anna A., Hartford, Conn. Hair-holder. No. 1,370,142; Mar. 1; v. 284; p. 73.
- MacIsaac, Albert H., and T. Champagne, Toronto, Ontario, Canada. Valve. No. 1,374,308; Apr. 12; v. 285; p. 221.
- Mac Kellar, Robert E. (See Ellsworth, W., and Mac Kellar.)
- Mack, Charles D., Cooley, Ariz. Unloading attachment for cars. No. 1,373,623; Apr. 5; v. 285; p. 47.
- Mack, Edward A., Salt Lake City, Utah. Locking-cap for automobile-radiators. No. 1,376,560; May 3; v. 286; p. 34.
- Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Well-packer. No. 1,371,503; Mar. 15; v. 284; p. 443.
- Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Oil-well packer. No. 1,395,718; Nov. 1.
- Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Oil-well packer. No. 1,395,719; Nov. 1.
- Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Well-seal. No. 1,395,720; Nov. 1.
- Mack, Rudolph A., Gallipolis, Ohio. Combination-vehicle. No. 1,386,346; Aug. 2; v. 289; p. 76.
- Mack, Walter L. (See Trumble, John T., assignor.)
- MacKay, John F., Lancaster, Pa. Oil or vapor burner. No. 1,365,005; Jan. 11; v. 282; p. 229.
- MacKay, John F., Lancaster, Pa. Vapor-burner. No. 1,389,259; Aug. 30; v. 289; p. 889.
- MacKay, Philip A., New York, N. Y. Obtaining iron and tin from tin scrap. No. 1,387,443; Aug. 9; v. 289; p. 366.
- MacKay, Thomas C., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,365,421; Jan. 11; v. 282; p. 309.
- MacKellar, Robert E. (See Ellsworth, William, assignor.)
- MacKelvie, Hugh. (See Gregory, G. P., and MacKelvie.)
- MacKenzie, Cyrus W., Waverly, Ind. Milk aerator and cooler. No. 1,374,309; Apr. 12; v. 285; p. 221.
- Mackenzie, Duncan G. (See Wellington, John M., and Mackenzie.)
- Mackenzie, Fred L. (See Ayers, F. L., and Mackenzie.)
- Mackenzie, Fred L. (See Goddu, G., and Mackenzie.)
- Mackenzie, Fred L., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Channel-opening device for fastening-inserting machines. No. 1,375,795; Apr. 26; v. 285; p. 600.
- Mackenzie, Fred L., Beverly, and G. Goddu, Winchester, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Work-guide. No. 1,375,796; Apr. 26; v. 285; p. 600.
- Mackenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail-string. No. 1,377,262; May 10; v. 286; p. 224.
- Mackenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,389,205; Aug. 30; v. 289; p. 878.
- Mackenzie, Fred L., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Nail. No. 1,400,756; Dec. 20.
- Mackenzie, Roderick J., Cambridge, assignor to Crocker Pen Company, Boston, Mass. Fountain-pen. No. 1,390,366; Sept. 13; v. 290; p. 253.
- MacKenzie, Roy J., and L. L. Haas, assignors to Buffalo Pressed Steel Company, Buffalo, N. Y. Silencer. (Reissue.) No. 15,049; Feb. 22; v. 283; p. 708.
- MacKenzie, Roy J., and L. L. Haas, assignors to Buffalo Pressed Steel Co., Buffalo, N. Y. Exhaust-muffler. No. 1,376,957; May 3; v. 286; p. 110.
- Mackerrrow, James A., et al. (See Trainor, Devaney C. E., assignor.)
- Mackey, Frank J. (See Wirth, Antone M., assignor.)
- Mackey, Franklin O., Eastland, Tex. Automobile. No. 1,364,292; Jan. 4; v. 282; p. 48.
- Mackey, Jay A., Lynn, Mass., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn. Tacker. No. 1,368,274; Feb. 15; v. 283; p. 377.
- Mackey, John C., Akron, Ohio, assignor of one-half to Charles S. Miley. Universal joint. No. 1,364,842; Jan. 4; v. 282; p. 153.
- Mackey, John H. (See Walters, Henry W., assignor.)
- Mackie, Harry A., Atlantic City, N. J., and A. H. Shearer, York, Pa., assignors to Universal Cot Company, Wilmington, Del. Folding cot. No. 1,366,330; Jan. 18; v. 282; p. 526.
- MacKinnon, Archibald, Edinburgh, Scotland. Packing bottles and like articles. No. 1,367,069; Feb. 1; v. 283; p. 37.
- MacKinnon, Archibald, Tuckahoe, N. Y. Window. No. 1,379,460; May 24; v. 286; p. 769.
- Mackintosh, Allan, Bowsman River, and F. Thompson, Sydney Mines, Canada. Nut-lock. No. 1,382,524; June 21; v. 287; p. 528.
- Mackintosh, Edith M., et al., assignees. (See Mackintosh, Edward D.) (Reissue.)
- Mackintosh, Edward D., deceased, Brooklyn, by S. S. Hepworth Company, New York, and E. M. Mackintosh, Brooklyn, N. Y., assignees. Driving electric centrifugal machines. (Reissue.) No. 15,115; May 31; v. 286; p. 1009.
- Mackintosh, William M., Springfield township, Summit county, assignor to The Kelly-Springfield Tire Company, Akron, Ohio. Vulcanizing rubber. No. 1,400,618; Dec. 20.
- Mackie, William J., St. Louis, Mo. Mechanical movement. No. 1,369,256; Feb. 22; v. 283; p. 607.
- Mackie, Thomas J. (See Clifford, C. E., and Mackie.)
- Mack-Miller Candle Company. (See Cook, G. L., and Schmitter, assignors.)
- MacLachlan, John C., assignor to Standard Food Products Company, St. Paul, Minn. Producing powdered meat. No. 1,372,527; Mar. 22; v. 284; p. 695.
- MacLachlan, John C., assignor to Standard Food Products Company, St. Paul, Minn. Granular food product. No. 1,394,035; Oct. 18.
- MacLachlan, John C., assignor to Standard Food Products Company, St. Paul, Minn. Powdered meat product. No. 1,398,464; Nov. 29.
- MacLachlan, John C., assignor to Standard Food Products Company, St. Paul, Minn. Desiccating fluid mixtures. No. 1,398,735; Nov. 29.
- MacLaren, Frederick B., Jersey City, N. J., assignor to Electric Gun Corporation, Philadelphia, Pa. Electric gun. No. 1,384,769; July 19; v. 288; p. 444.
- Maclaren, James G., Harrison, N. Y. Pneumatic-despatch-tube apparatus. No. 1,366,013; Jan. 18; v. 282; p. 464.
- Maclaren, James G., Mamaroneck, N. Y. Carrier-distributor. No. 1,367,162; Feb. 1; v. 283; p. 56.
- Maclaren, James G., Mamaroneck, N. Y. Pneumatic-despatch-tube apparatus. No. 1,367,163; Feb. 1; v. 283; p. 56.
- Maclaren, James G., Mamaroneck, N. Y. Pneumatic-despatch apparatus. No. 1,396,449; Nov. 8.
- MacLean, Andrew D., Toronto, Ontario, Canada. Disappearing-propeller device for boats. No. 1,385,488; July 26; v. 288; p. 667.
- MacLennan, Alexander, Clapham, London, England. Vapor-burner. No. 1,381,210; June 14; v. 287; p. 222.
- MacLeod, Albert A., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,401,167; Dec. 27.
- MacLeod, Angus P. (See MacLeod, George S., assignor.)
- MacLeod, George S., assignor of one-half to A. P. MacLeod, Seattle, Wash. Bumper for motor-vehicles. No. 1,365,522; Jan. 11; v. 282; p. 328.
- MacLeod, George S., assignor of one-half to A. P. MacLeod, Seattle, Wash. Front-bumper bracket. No. 1,392,427; Oct. 4.
- MacLeod, George S., assignor of one-half to A. P. MacLeod, Seattle, Wash. Rear-bumper bracket for automobiles. No. 1,392,428; Oct. 4.
- MacLewee, Carrie H. (See MacLewee, William S., assignor.)
- MacLewee, William S., assignor to C. H. MacLewee, Trenton, N. J. Lamp-adjuster. No. 1,375,224; Apr. 19; v. 285; p. 460.
- Macloskie, George, Erie, Pa., assignor to General Electric Company. Electropneumatic brake. No. 1,390,055; Sept. 6; v. 290; p. 100.
- MacMahon, James H., Saltville, Va., assignor to The Mathieson Alkali Works, Inc., Providence, R. I. Recovery of ammonia. No. 1,378,593; May 17; v. 286; p. 532.
- MacMahon, James H., Saltville, Va., assignor to The Mathieson Alkali Works, Inc. Production of barium chlorid. No. 1,378,594; May 17; v. 286; p. 532.
- MacMahon, James H., Saltville, Va., assignor to The Mathieson Alkali Works, Inc. Producing carbonates of the alkaline-earth metals. No. 1,378,595; May 17; v. 286; p. 532.
- MacMahon, James H., Saltville, Va., assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Ammonia-soda process. No. 1,384,141; July 12; v. 288; p. 232.
- Macmechen, Thomas R. (See Kamp, W. V., and Macmechen.)
- MacMillan, Daniel W., Providence, R. I. Soft-collar fastener. No. 1,368,275; Feb. 15; v. 283; p. 377.
- MacMillan, John R., and J. L. K. Snyder, assignors to Niagara Alkali Company, Niagara Falls, N. Y. Making permanganates. No. 1,386,656; Aug. 16; v. 289; p. 460.
- MacMillan, John R., Niagara Falls, N. Y., assignor to Niagara Alkali Company. Making trichlorethylene. No. 1,397,134; Nov. 15.
- MacMillan, Joseph E., Pasadena, Calif. Belt-holder. No. 1,389,206; Aug. 30; v. 289; p. 878.
- MacMinn, Alexander H., and W. H. Graham, Portland, Me. Safety-catch for car-doors. No. 1,379,997; May 31; v. 286; p. 944.
- MacMinn, Alexander H., and W. H. Graham, Portland, Me. Safety switch-lock. No. 1,399,221; Dec. 6.
- MacMonagle, Roy O. (See Meyer, C. L., and MacMonagle.)



*Alphabetical list of patentees—Continued.*

MacNeill, John B. (See Mahoney, J. N., and MacNeill.)  
 MacNeill, John B., Wilkinsburg, Pa., assignor to Westinghouse Electric Manufacturing Company. Circuit-breaker. No. 1,395,348; Nov. 1.  
 MacNicol, Donald. (See Cockburn, D., and MacNicol.)  
 Macconnell, George E., Redstone, Mont. Try-square handle. No. 1,369,038; Feb. 22; v. 283; p. 565.  
 MacPherson, Hugh D. (See Dodge, W. L., and MacPherson.)  
 MacPherson, Hugh D. (See MacDougal, H. W., and MacPherson.)  
 MacPherson, Hugh D., Summit, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,386,719; Aug. 9; v. 289; p. 221.  
 Macpherson, Robert, Brondesbury, and W. E. Heys, Bushey, England. Manufacture of detergent and emulsive agents. No. 1,373,900; Apr. 5; v. 285; p. 102.  
 MacPherson, Warren, Cambridge, Mass. Elastic step-mat. No. 1,398,701; Nov. 29.  
 MacRae, John K., Seattle, Wash. Brush. No. 1,372,308; Mar. 22; v. 284; p. 654.  
 Macredie, Alexander E. (See Remus, W. F., Macredie, and Cork.)  
 MacTavish, Duncan, Martinsburg, W. Va. Automobile-lock. No. 1,366,697; Jan. 25; v. 282; p. 643.  
 MacVey, Charles L., Shreveport, La. Internal-combustion engine. No. 1,369,827; Mar. 1; v. 284; p. 14.  
 Macy, Alfred J., Chicago, Ill., assignor to Macy Art Process Corporation. Stereoscopic picture. No. 1,386,720; Aug. 9; v. 289; p. 221.  
 Macy Art Process Corporation. (See Macy, Alfred J., assignor.)  
 Macy, Barnett W., assignor, by mesne assignments, of one-half to T. W. Dunk-Jacksonville, Fla. Electric liquid-heater. No. 1,369,900; Mar. 1; v. 284; p. 28.  
 Macy, R. H., & Co. (See Von Kersburg, Harry E., assignor.)  
 Madan, Edward K., Brooklyn, and M. P. Levine, Mount Vernon, assignors to The Emeloid Company, Brooklyn, N. Y. Sanitary cap. No. 1,398,078; Nov. 22.  
 Madden, Edwin C., New York, N. Y. Safety-razor. No. 1,396,645; Nov. 8.  
 Madden, Bert L., assignor to Cyclo-Motor Corporation, Rochester, N. Y. Lubricating device. No. 1,384,536; July 12; v. 288; p. 314.  
 Madden, John, and E. J. Canfield, Detroit, Mich. Spring-manipulating tool. No. 1,386,721; Aug. 9; v. 289; p. 221.  
 Maddison, Frederick G., Victoria, British Columbia, Canada. Showcase. No. 1,371,504; Mar. 15; v. 284; p. 443.  
 Maddox, Robert A., assignor of one-half to C. C. Crawford, Los Angeles, Calif. Cutting-block-surfacing machine. No. 1,369,684; Feb. 22; v. 283; p. 691.  
 Maddox, Robert D., U. S. Army. Surgical splint. No. 1,366,576; Jan. 25; v. 282; p. 619.  
 Maddox, Robert D., U. S. Army. Non-corrosive attachment for containers. No. 1,383,138; June 28; v. 287; p. 699.  
 Maddy, James H., New York, N. Y. Preparing ferric articles for metallic baths. No. 1,379,998; May 31; v. 286; p. 945.  
 Madelbaum, Maurice H., Chicago, and B. R. Webster, Elgin, Ill., assignors to Brandt Cashier Company. Key for office devices. No. 1,376,958; May 3; v. 286; p. 111.  
 Mader, Joseph, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Agricultural implement. No. 1,375,854; Apr. 26; v. 285; p. 612.  
 Mader, Joseph, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Cultivator. No. 1,380,918; June 7; v. 287; p. 144.  
 Mader, Joseph, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Dust-guard. No. 1,383,003; June 28; v. 287; p. 674.  
 Mader, Joseph, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Agricultural implement. No. 1,391,264; Sept. 20; v. 290; p. 498.  
 Mader, Joseph, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Support for tractor steering-handles. No. 1,398,301; Nov. 29.  
 Mader, Joseph, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Tractor steering-gear. No. 1,398,302; Nov. 29.  
 Mader, Joseph, Albany, N. Y. Flag and flag-support. No. 1,401,626; Dec. 27.  
 Mader, Joseph, assignor to Beeman Tractor Company, Minneapolis, Minn. Traction-machine. No. 1,401,625; Dec. 27.  
 Madigan, John M., Haverhill, Mass. Last. No. 1,364,775; Jan. 4; v. 282; p. 140.  
 Madigan, Thomas J., Brooklyn, assignor of one-fourth to James O. Schwank, New York, N. Y. Battery hand-lamp. No. 1,364,393; Jan. 4; v. 282; p. 67.  
 Madison, George E., Flint, assignor to General Motors Corporation, Detroit, Mich. Folding top for automobiles. No. 1,396,862; Nov. 15.  
 Madison Kipp Corporation. (See Coles, Wilfred G., assignor.)  
 Madison Kipp Corporation. (See Erickson, John, assignor.)  
 Madison, Randolph, Petersburg, Va. Locking device. No. 1,395,721; Nov. 1.

Madjar, Stepan, Ogdensburg, N. J. Automobile-wheel. No. 1,387,793; Aug. 16; v. 289; p. 488.  
 Madjaroglou, Prodromos, and A. Paulick, Dresden, Germany. Sledge-velocipede. No. 1,399,138; Dec. 6.  
 Madrak, Frank, Duryea, Pa. Trolley-wire holder. No. 1,375,590; Apr. 19; v. 285; p. 631.  
 Madsen, Charles C., assignor to Keystone Tool and Die Works, trustee, Chicago, Ill. Safety device for punches. No. 1,388,354; Aug. 23; v. 289; p. 656.  
 Madsen, David E., and J. Kelly, Detroit, Mich. Scaffold-support. No. 1,396,968; Nov. 15.  
 Madsen, Peter, assignor to O. J. Smith, Chicago, Ill. Valve-tool. No. 1,368,446; Feb. 15; v. 283; p. 411.  
 Madsen, Rasmus H., Los Angeles, Calif. Lawn-mower grinder. No. 1,398,906; Nov. 29.  
 Madsen, Soren, New York, N. Y. Liquid-vending apparatus and coin-actuated mechanism. No. 1,375,639; Apr. 19; v. 285; p. 579.  
 Mae, Anton, New Haven, Conn. Pliers. No. 1,401,546; Dec. 27.  
 Maeda, Uichiro, Los Angeles, Calif. Skirt-templet. No. 1,390,534; Sept. 13; v. 290; p. 287.  
 Maedler, Richard W., Fort Lee, N. J., assignor to D. P. Berghimer, New York, N. Y. Cabinet. No. 1,367,410; Feb. 1; v. 283; p. 105.  
 Maes, Louis A. F. (See Doell, T. W., and Maes.)  
 Maes, Robert, Calgary, Alberta, Canada. Pulsator for milking-machines. No. 1,384,266; July 12; v. 288; p. 258.  
 Maescher, Louis J. (See Wichmann, John C., assignor.)  
 Magariello, John B. and J. New York, N. Y. Bed-spring. No. 1,392,954; Oct. 11.  
 Magariello, Joseph. (See Magariello, John B. and J.)  
 Magee, Allan A. (See Chapdelaine, Norbert, assignor.)  
 Magee, Allan A. (See Chapdelaine, Norbert, assignor.) (Reissue.)  
 Magee, Chauncey L. C., Chicago, Ill. Wagon-lifting apparatus. No. 1,397,593; Nov. 22.  
 Magee, James, 2d. (See McCollum, Alfred F., assignor.)  
 Magee, John H., Carthage, Mo. Wall construction or wall. No. 1,399,222; Dec. 6.  
 Magerle, Edmund, and H. Martinek, assignors of one-third to A. Voglmayer, Vienna, Austria. Device or arrangement for the continuous movement of rolling or sliding bodies. No. 1,393,231. Oct. 11.  
 Magerstadt, Ernest J. (See Preston, Charles F., assignor.)  
 Maggi, Desiderio, Philadelphia, Pa. Boat lifting and launching mechanism. No. 1,398,702; Nov. 29.  
 Maggio, Nick, Brooklyn, N. Y. Truss. No. 1,386,886; Aug. 9; v. 289; p. 255.  
 Magiella, John. (See Sarockin, F., and Magiella.)  
 Magill, John, Woonsocket, R. I. Universal triangle-tractor. No. 1,370,605; Mar. 8; v. 284; p. 206.  
 Magill-Weinsheimer Co. (See Austin, Arthur C., assignor.)  
 Magin, Francis W., assignor to Industrial Controller Company, Milwaukee, Wis. Resistance-box. No. 1,373,825; Apr. 5; v. 285; p. 87.  
 Magin, Michael J., and W. G. Biek, Dowagiac, Mich. Shock-absorber. No. 1,389,591; Sept. 6; v. 290; p. 6.  
 Magistro, Rosario, Stamford, Conn. Spading-machine. No. 1,368,177; Feb. 8; v. 283; p. 310.  
 Magna Metal Corporation. (See Lohrey, Walter, assignor.)  
 Magnat, Charles W., Jr., Paterson, N. J. Child's skid rocking-horse. No. 1,377,423; May 10; v. 286; p. 256.  
 Magni, Umberto, Los Angeles, Calif. Radiator. No. 1,401,343; Dec. 27.  
 Magnetic Manufacturing Company. (See Bethke, John P., assignor.)  
 Magnetic Manufacturing Co. (See Bethke, J. P., and Searns, assignors.)  
 Magnetic Pigment Company. (See Fireman, Peter, assignor.)  
 Magnetic Power Transmitter Company. (See Satterstrom, Ferdinand, assignor.)  
 Magnus, John, assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,396,716; Nov. 8.  
 Magor Car Corporation. (See Cartzdafner, R. E., and Ketcham, assignors.)  
 Magor Car Corporation. (See Cartzdafner, Roy E., assignor.)  
 Magoun, Francis P., Cambridge, Mass. Towing submerged objects, such as submarine torpedoes. No. 1,395,924; Nov. 1.  
 Magri, Giuseppe, Turin, Italy. Apparatus for distilling fuel and bituminous rocks. No. 1,399,267; Dec. 6.  
 Magruder, R. B. L., et al. (See Jennings, Albert G., assignor.)  
 Maguire, Hugh F., New York, N. Y. Testing device for ignition systems. No. 1,380,228; May 31; v. 286; p. 988.  
 Maguire, Joseph H., Wayne, Pa. Game apparatus. No. 1,369,039; Feb. 22; v. 283; p. 565.  
 Maguire, John, Attleboro, Mass. Hat-protector. No. 1,386,270; Aug. 2; v. 289; p. 61.  
 Maguire, John, Attleboro, Mass. Hat-protector. No. 1,386,271; Aug. 2; v. 289; p. 62.  
 Maha, Irvin J., Sleepy Eye, Minn. Motor-starter. No. 1,389,522; Aug. 30; v. 289; p. 941.  
 Mahan, George H., Kansas City, Mo. Oil-burner. No. 1,392,187; Sept. 27; v. 290; p. 758.



## Alphabetical list of patentees—Continued.

- Maher, James M., Fremont, Nebr. Stream-deflector. No. 1,378,967; May 24; v. 286; p. 676.
- Maher, Peter L., H. Schmidt, and J. H. Kennedy, assignors to The Damascus Brake Beam Company, Cleveland, Ohio. Brake-beam fulcrum with third-point support. No. 1,372,319; Mar. 22; v. 284; p. 656.
- Mahern, William B., and H. G. Gosselin, Berlin, N. H. Log-dislodging air-gun. No. 1,366,577; Jan. 25; v. 282; p. 619.
- Maheux, Henri, Montreal, Quebec, Canada. Match-box. No. 1,392,429; Oct. 4.
- Mahler, Ernst, Neenah, Wis. Beating-engine. No. 1,378,046; May 17; v. 286; p. 428.
- Mahn, C. Hohman. (See Rogers, Samuel R., assignor.)
- Mahon, Elmer C., Toledo, Ohio. Loose-leaf binder. No. 1,387,859; Aug. 16; v. 289; p. 501.
- Mahon, Martin J. (See Lewis, W. E. D., Adamson, and Mahon.)
- Mahoney, E. H., Chair Company, *et al.* (See Travers, Lewis C., assignor.)
- Mahoney, Francis J., Edgewater, N. J. Bottle attachment. No. 1,385,085; July 19; v. 288; p. 509.
- Mahoney, Joseph A. (See Royal, Osmon, assignor.)
- Mahoney, Joseph N., and H. G. MacDonald, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Switching device. No. 1,370,030; Mar. 1; v. 284; p. 52.
- Mahoney, Joseph N., Wilkinsburg, and G. L. Christman, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. Switch. No. 1,381,320; June 14; v. 287; p. 241.
- Mahoney, Joseph N., Wilkinsburg, and W. M. Austin, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,386,010; Aug. 2; v. 289; p. 9.
- Mahoney, Joseph N., and J. B. MacNeill, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Circuit-interrupter. No. 1,386,011; Aug. 2; v. 289; p. 9.
- Mahoney, Thomas. (See McCullough, W. D., and Mahoney.)
- Mahony, Eugene P., New York, N. Y. Vermin-proof combined mattress and spring. No. 1,371,919; Mar. 15; v. 284; p. 522.
- Maier, Charles G. (See Van Arsdale, G. D., and Maier.)
- Maier, Frank X., Sterling, Ill. Adjustable light-support. No. 1,379,638; May 31; v. 286; p. 878.
- Maier, Fred, Los Angeles, Calif., assignor to Western Vulcanizer Manufacturing Company, Chicago, Ill. Matrix for vulcanizers. No. 1,360,919; June 7; v. 287; p. 114.
- Maier, Clarence H., New York, N. Y. Music-sheet-advertising device. No. 1,390,535; Sept. 13; v. 290; p. 288.
- Maiers, John, Philadelphia, Pa. Angle-joint. No. 1,392,070; Sept. 27; v. 290; p. 734.
- Maimin, H., Co. (See Marshall, William J., assignor.)
- Maimin, Hyman, New York, N. Y. Motor-bracket. No. 1,377,016; May 3; v. 286; p. 121.
- Maimin, Hyman, New York, N. Y. Support for sewing-machine motors. No. 1,377,017; May 3; v. 286; p. 121.
- Maimin, Hyman, New York, N. Y. Motor-drive for sewing-machines. No. 1,377,018; May 3; v. 286; p. 121.
- Maimin, Hyman, New York, N. Y. Belt-drive for sewing-machine motors. No. 1,377,019; May 3; v. 286; p. 122.
- Main, Alfred, Aberdeen, Scotland. Tip-up seat. No. 1,394,036; Oct. 18.
- Maineri, Daniel L., assignor to The Berger Manufacturing Company, Canton, Ohio. Metal-sheet-pack-separating device. No. 1,378,886; May 24; v. 286; p. 661.
- Maineri, Daniel L., assignor, by mesne assignments, to United Alloy Steel Corporation, Canton, Ohio. Metal-sheet-pack-opening device. No. 1,396,768; Nov. 15.
- Maines, Ralph, *et al.* (See Abernathy, Benjamin H., assignor.)
- Mains, Gerald H., Detroit, Mich. Removal of varnish, lacquer, enamel, paint, and similar coatings from any objects or materials. No. 1,381,485; June 14; v. 287; p. 272.
- Mainwaring, Alexander J., St. James, London, England. Safety-razor and hair-cutting appliance. No. 1,401,915; Dec. 27.
- Maire, Auguste, Argenteuil, assignor to M. J. B. Barbarou, Neuilly-sur-Seine, France. Connecting-rod for internal-combustion engines. No. 1,368,179; Feb. 8; v. 283; p. 310.
- Maire, Auguste, Argenteuil, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie., De Luneville, Paris, France. Carburetor for motor-cars. No. 1,368,178; Feb. 8; v. 283; p. 310.
- Maire, Auguste, Argenteuil, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie., De Luneville, Paris, France. Ignition apparatus for aviation-engines. No. 1,375,256; Apr. 19; v. 285; p. 466.
- Maire, Auguste, Argenteuil, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie., De Luneville, Paris, France. Apparatus for measuring the hardness of bodies. No. 1,385,182; July 19; v. 288; p. 530.
- Maire, Auguste, Argenteuil, France, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie., De Luneville, Paris, France. Apparatus for driving magnetos in connection with internal-combustion engines. No. 1,387,285; Aug. 9; v. 289; p. 333.
- Maisano, Ignatius, Wilmington, Del. Toy. No. 1,364,394; Jan. 4; v. 282; p. 67.
- Maisano, Ignatius, Wilmington, Del. Toy. No. 1,364,395; Jan. 4; v. 282; p. 67.
- Maise, Herman C., Detroit, Mich., assignor, by mesne assignments, to Edward G. Budd Manufacturing Company. Automobile-body. No. 1,367,197; Feb. 1; v. 283; p. 63.
- Maisel, Lorenz, assignor to Burgess Battery Company, Madison, Wis. Process and apparatus for making battery-electrodes. No. 1,375,305; Apr. 19; v. 285; p. 476.
- Maisel, Lorenz, assignor to Burgess Battery Company, Madison, Wis. Battery-electrode. No. 1,375,306; Apr. 19; v. 285; p. 476.
- Maisel, Lorenz, assignor to Burgess Battery Company, Madison, Wis. Battery-handlamp. No. 1,397,646; Nov. 22.
- Maize, Adam P., assignor of one-half to H. E. Bohner, Allentown, Pa. Rug-extractor. No. 1,377,169; May 3; v. 286; p. 150.
- Majchrowicz, Frank, Cleveland, Ohio. Automatic railway-gate. No. 1,391,397; Sept. 20; v. 290; p. 525.
- Majestic Electric Development Company. (See Shoenberg, Milton H., assignor.)
- Majestic Electric Development Company. (See Brown, E. N., and Shoenberg, assignors.)
- Major, Alfred J., *et al.*, receivers. (See Laussucq, Henri P. L., assignor.)
- Major, Ralph M., Bloomfield, assignor to Driver-Harris Company, Harrison, N. J. Cyanid-furnace. No. 1,387,286; Aug. 9; v. 289; p. 333.
- Major, Thomas H. (See Coombs, James W., assignor.)
- Major, Walter C., Niagara-on-the-Lake, Ontario, Canada. Hose-supporting bridge. No. 1,384,621; July 12; v. 288; p. 332.
- Make-A-Factor Corporation of America. (See Ward, Frank E., assignor.)
- Maker, Fred S., Seekonk, Mass., and R. K. Maker, Providence, R. I. Tie-clip. No. 1,381,846; June 14; v. 287; p. 341.
- Maker, Ralph K. (See Maker, Fred S. and R. K.)
- Maki, Otto and K. Arlin, Palmer, Mass. Switch-operator. No. 1,392,188; Sept. 27; v. 290; p. 758.
- Makie, Hayato, New York, N. Y. Comb cleaner and disinfector. No. 1,392,189; Sept. 27; v. 290; p. 758.
- Makoben, Charlie, Stockton, Iowa. Switch-operating mechanism. No. 1,381,723; June 14; v. 287; p. 318.
- Maksym, Konstanty, Woodhaven, N. Y. Safety-lock. No. 1,369,449; Feb. 22; v. 283; p. 644.
- Malaney, John R. (See Kerlin, H., and Malaney.)
- Malcher, Konrad, Gleiwitz, Germany. Dumping-car. No. 1,370,658; Mar. 8; v. 284; p. 217.
- Malcher, Konrad, Gleiwitz, Germany. Dumping mechanism for cars and other receptacles. No. 1,370,659; Mar. 8; v. 284; p. 217.
- Malcolm, Ormond C., Auburn, N. Y. Brush-holder. No. 1,394,205; Oct. 18.
- Malcolmson, James D., Wilkinsburg, Pa., assignor, by mesne assignments, to The Container Club, Chicago, Ill. Manufacture of adhesives. No. 1,379,639; May 31; v. 286; p. 878.
- Malcom, Robert, Chicago, Ill. Goggles. No. 1,369,040; Feb. 22; v. 283; p. 566.
- Malcom, Robert, Chicago, Ill. Helmet. No. 1,378,255; May 17; v. 286; p. 468.
- Malecki, Walenty J., East Pittsburgh, Pa. Ratchet-screw-driver. No. 1,384,032; July 5; v. 288; p. 160.
- Males, Herbert, *et al.* (See Northall, William H., assignor.)
- Maley, John A., and A. Dierking, Cincinnati, Ohio. Roller-supporting stile for drawers. No. 1,364,396; Jan. 4; v. 282; p. 68.
- Malhomme, Maurice R., assignor to J. Poberejsky, Paris, France. Electrical heating apparatus. No. 1,378,256; May 17; v. 286; p. 468.
- Maliczski, Steve, Jersey City, N. J. Railway-tie and fastener. No. 1,388,277; Aug. 23; v. 289; p. 640.
- Malingquist, Adolph K., assignor to Deming & Gould Company, South Bellingham, Wash. Canning. No. 1,386,887; Aug. 9; v. 289; p. 255.
- Mallowsky, Augustin W., Detroit, Mich. Contents-indicator for containers. No. 1,379,271; May 24; v. 286; p. 734.
- Malitch, Charles, Hamilton, Ohio. Rail-chair. No. 1,390,919; Sept. 13; v. 290; p. 365.
- Malligan, Joseph, and C. R. Lytle, Point Marion, Pa. Band for Ford cars. No. 1,382,305; June 21; v. 287; p. 486.
- Mallison, Frank K., assignor, by mesne assignments, to The Firestone Steel Products Company, Akron, Ohio. Demountable rim. No. 1,378,968; May 24; v. 286; p. 676.
- Mallory, Ernest E., Los Angeles, Calif. Stool. No. 1,388,736; Aug. 23; v. 289; p. 730.
- Mallory, George P., Yorklyn, Del., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa. Dwelling pitman. No. 1,378,706; May 17; v. 286; p. 554.
- Mallory, George P., Yorklyn, Del., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa. Machine for forming spoons and other flatware articles out of sheet material. No. 1,378,707; May 17; v. 286; p. 555.



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- Mallory, George P., Yorklyn, Del., assignor, by mesne assignments, to Sanitary Products Corporation of America, Philadelphia, Pa. Apparatus for making paper spoons and other flat paper utensils. No. 1,394,037; Oct. 18.
- Mallory, Harry C., Bellport, N. Y. Expandible and collapsible element for thermostatic and pressure-sensitive devices. No. 1,366,473; Jan. 25; v. 282; p. 598.
- Mallory, Marion, Wichita, Kans. Internal-combustion engine. No. 1,879,115; May 24; v. 286; p. 704.
- Malloy, John D., Hartford, Conn. Pin-caliper. No. 1,379,116; May 24; v. 286; p. 704.
- Malm, Arthur H., and C. A. Marwedel, San Francisco, Calif. Baggage-fastener. No. 1,370,218; Mar. 1; v. 284; p. 88.
- Malm, Axel C. V., Philadelphia, Pa., assignor to The Egry Register Company, Dayton, Ohio. Manifolding device. (Reissue.) No. 15,074; Mar. 29; v. 284; p. 908.
- Malm, Axel C. V., Philadelphia, assignor to The Pennsylvania Paper Products Company, Pittsburgh, Pa. Machine for forming tubular containers. No. 1,399,636; Dec. 6.
- Malm, Henry, New York, N. Y. Massage-tool. No. 1,371,044; Mar. 8; v. 284; p. 290.
- Malm, Henry, New York, N. Y. Massage-tool. No. 1,382,436; June 21; v. 287; p. 512.
- Malocsay, Frank, New York, N. Y., assignor to Sonora Phonograph Corporation. Automatic stop. No. 1,383,651; July 5; v. 288; p. 81.
- Malone, Edward P., Manchester, Iowa. Nut-lock. No. 1,367,615; Feb. 8; v. 283; p. 203.
- Malone, Ernest J., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Ironing-machine. No. 1,383,738; July 5; v. 288; p. 100.
- Malone, John J., New Haven, Conn. Door-latch. No. 1,368,041; Feb. 8; v. 283; p. 283.
- Malone, Lester J., assignor to Eastman Kodak Company, Rochester, N. Y. Making colored nitrocellulose compositions. No. 1,399,357; Dec. 6.
- Malone, Richard E., Saranac Lake, N. Y. Reclining-chair. No. 1,371,209; Mar. 8; v. 284; p. 321.
- Maloney, Daniel, assignor to The Bauer Brothers Company, Springfield, Ohio. Grinding-plate. No. 1,369,685; Feb. 22; v. 283; p. 691.
- Maloney, James A., Scranton, Pa. Safety-razor and strop. No. 1,381,724; June 14; v. 287; p. 318.
- Maloney, James T., Tulsa, Okla. Fishing-tool. No. 1,385,633; July 26; v. 288; p. 697.
- Maloney, Joseph F., Cleveland, Ohio. Air-moistener. No. 1,384,702; July 12; v. 288; p. 350.
- Maloney, Joseph F., Cleveland, Ohio. Lubricating-oil. No. 1,384,703; July 12; v. 288; p. 350.
- Maloney, Michael D., Hadlock, Wash. Mechanical brake. No. 1,398,875; Nov. 29.
- Maloney, William A., Needham, Mass. Detachable heel. No. 1,369,529; Feb. 22; v. 283; p. 660.
- Maloney, William J., Ansonia, Conn. Attachment for warping-machines. No. 1,378,257; May 17; v. 286; p. 468.
- Malott, Watson H., San Francisco, Calif. Windshield-shade. No. 1,375,164; Apr. 19; v. 285; p. 449.
- Malouf, Beshara I., Salt Lake City, Utah. Windshield-cleaner. No. 1,392,190; Sept. 27; v. 290; p. 758.
- Malouf, Jubert G., Niagara Falls, N. Y. Amusement device. No. 1,397,135; Nov. 15.
- Maloy, James A., Columbus, Ohio. Safety device for use in connection with guard-rails and switch-frogs on railways. No. 1,387,732; Aug. 16; v. 289; p. 475.
- Maloy, Tony, San Francisco, Calif. Necktie-holder. No. 1,364,446; Jan. 4; v. 282; p. 78.
- Malsbary, Edward L., Reno, Nev. Internal-combustion engine. No. 1,386,129; Aug. 2; v. 289; p. 33.
- Malstrom, Louise, Los Angeles, Calif. Producing artificial flower-petals. No. 1,400,691; Dec. 20.
- Maltby, Frank D., Battle Creek, Mich. Carbureter. No. 1,370,772; May 31; v. 286; p. 902.
- Maltman, William H., and T. R. McCoy, Stockton, Calif. Collapsible form. No. 1,391,747; Sept. 27; v. 290; p. 669.
- Malusz, Wladyslaw, Harrison, N. J. Sugar-dispenser. No. 1,400,757; Dec. 20.
- Mamalakis, John E., assignor of one-third to C. P. Ballas and one-third to G. J. Cajoleas, Opelousas, La. Holder. No. 1,392,842; Oct. 4.
- Mamers, Reinhold, Brooklyn, N. Y. Tool-holder. No. 1,371,799; Mar. 15; v. 284; p. 500.
- Management, Engineering and Development Company. (See Baker, Harold T., assignor.)
- Manas, John E., Princeton, N. J. Propeller-rotating device. No. 1,379,461; May 24; v. 286; p. 769.
- Manau, Frederick A., Chicago, Ill., assignor to Benjamin Electric Manufacturing Company. Switch. No. 1,399,781; Dec. 13.
- Mandalian, Sahatiel G., North Attleboro, Mass. Suspension-sleeve for mesh-machines. No. 1,397,288; Nov. 15.
- Mandalian, Sahatiel G., North Attleboro, Mass. Making bag-tops. No. 1,397,874; Nov. 22.
- Manchester, Arthur P., Providence, and H. M. Spooner, Cranston, R. I. Battery. No. 1,378,549; May 17; v. 286; p. 523.
- Manchester, Ansel B., Los Angeles, Calif. Shock-absorber for drive-shafts. No. 1,400,368; Dec. 13.
- Mancini, Amedeo A., Stamford, Conn. Nut-lock. No. 1,370,897; Mar. 8; v. 284; p. 262.
- Mandel, Jacob, New York, N. Y. Sheet-metal-backing frame. No. 1,394,321; Oct. 18.
- Mandel, Louis, Chicago, Ill. Camera attachment. No. 1,394,568; Oct. 25.
- Mandel, William, Minneapolis, Minn. Window-sash holder. No. 1,381,422; June 14; v. 287; p. 261.
- Mandelbaum, Emanuel. (See Ray, Albert D., assignor.)
- Mandelbaum, Maurice H., Chicago, Ill., and B. R. Webster, Elgin, Ill., assignors to Brandt Cashier Company. Coin-locking mechanism. No. 1,376,959; May 3; v. 286; p. 111.
- Mandelbaum, Maurice H., Chicago, and B. R. Webster, Elgin, Ill., assignors to Brandt Cashier Company. Change-making machine. No. 1,376,960; May 3; v. 286; p. 111.
- Manderfield, Robert J., Hancock, Mich. Device for cutting eyes out of large potatoes for seed. No. 1,378,258; May 17; v. 286; p. 468.
- Manderfield, William, Comfrey, Minn. Expanding post. No. 1,370,334; Mar. 1; v. 284; p. 110.
- Mandis, John A., Highland, Mich. Necktie-holder. No. 1,370,468; Mar. 1; v. 284; p. 135.
- Mandl, Karl. (See Karabin, M., Skociokh, and Mandl.)
- Mandry, Archibald G., East Dulwich, England. Means for fixing detachable legs to tables. No. 1,372,032; Mar. 22; v. 284; p. 601.
- Manfred, Marten, Santa Barbara, Calif. Suction-washer. No. 1,391,265; Sept. 20; v. 290; p. 498.
- Mangel, Wallie C., Fairfax, Minn. Trailer connection. No. 1,391,962; Sept. 27; v. 290; p. 712.
- Mangelsdorff, Max F., Union Hill, N. J. Prevention of adherence of moist particles. No. 1,400,176; Dec. 13.
- Mangiapane, Salvatore, *et al.* (See Merli, C., and Bertolini, assignors.)
- Mangnall, Arthur R., Chester, England. Earth-boring apparatus. No. 1,370,031; Mar. 1; v. 284; p. 52.
- Manhattan Electrical Supply Company. (See Schwartz, Edward, assignor.)
- Manhattan-Rome Company, branch of Rome Metallic Bedstead Co. (See Sisbower, G. F., and Pittoni, assignors.)
- Manhattan Rubber Mfg. Company. (See Repony, Daniel, assignor.)
- Manheim, Lyndon W., Camden, S. C. Freight-car door. No. 1,380,229; May 31; v. 286; p. 988.
- Manifold Printing Company, The. (See Mayer, G. A., and Murray, assignors.)
- Manila Sterilizing Corporation. (See Diner, Jacob, assignor.)
- Manire, Moses E., assignor of one-half to M. B. Kerr, Chapel Hill, Tenn. Neckband for shirts. No. 1,397,435; Nov. 15.
- Manischewitz, B., Company, The. (See Manischewitz, Jacob U., assignor.)
- Manischewitz, Jacob U., Cincinnati, Ohio, assignor to The B. Manischewitz Company. Matzo-breaker. No. 1,401,268; Dec. 27.
- Manitus, Otto. (See Simonson, W. H., and Manitus.)
- Manker, Roy J. (See Rogers, A. D., and Manker.)
- Manley, Charles E., *et al.* (See Stephens, Richard M., assignor.)
- Manley, John M., Montgomery, Ala. Apparatus for the treatment of milk. No. 1,380,230; May 31; v. 286; p. 988.
- Manley Manufacturing Company, The. (See Manley, Robert E., assignor.)
- Manley, Robert E., assignor to The Manley Manufacturing Company, York, Pa. Engine-stand. No. 1,380,573; June 7; v. 287; p. 47.
- Manlond, Henry, Fort Apache, Ariz. Attachment for spoons, forks, and the like. No. 1,371,319; Mar. 15; v. 284; p. 406.
- Manly, Charles M., Buffalo, N. Y. Steering-gear for ships. No. 1,385,840; July 26; v. 288; p. 739.
- Manly, Charles M., Buffalo, N. Y. Steering-gear. No. 1,389,260; Aug. 30; v. 289; p. 889.
- Manly, Charles M., Buffalo, N. Y. Motor-vehicle. (Reissue.) No. 15,243; Dec. 6.
- Mann, Alfred, Barmen, Germany, assignor, by mesne assignments, to Walde & Co. Inc., New York, N. Y. Press-button. (Reissue.) No. 15,212; Oct. 25.
- Mann, Benjamin H., assignor of one-half to F. Horner, Milwaukee, Wis. Tiltable signal-post. No. 1,370,697; Mar. 8; v. 284; p. 224.
- Mann, Benjamin H., Milwaukee, Wis. Combination automobile-lock and thief-trap. No. 1,399,782; Dec. 13.
- Mann, Charles A., assignor of one-half to P. T. Einhellig, Buffalo, N. Y. Utensil-lifter. No. 1,368,953; Feb. 15; v. 283; p. 509.
- Mann, Charles E., New York, N. Y. Trunk-tag. No. 1,373,083; Mar. 29; v. 284; p. 847.
- Mann, I., *et al.* (See Nye, Sherman G., assignor.)
- Mann, Leon. (See Koppelman, Morris, assignor.)
- Mann, Matthew D., Jr., Roselle, N. J., assignor, by mesne assignments, to S. B. Hunt, trustee, Mount Kisco, N. Y. Treating gasoline and the like. No. 1,365,045; Jan. 11; v. 282; p. 287.
- Mann, Matthew D., Jr., Roselle, N. J., and R. R. Williams, Chicago, Ill., assignors, by mesne assignments, to S. B. Hunt, trustee, Mount Kisco, N. Y. Making reactive acid liquor from hydrocarbon gases containing olefins. No. 1,365,043; Jan. 11; v. 282; p. 287.
- Mann, Maurice M., Austin, Ind. Shoe-shining stand. No. 1,382,108; June 21; v. 287; p. 449.



## Alphabetical list of patentees—Continued.

- Mann, Pearly W., Minneapolis, Minn. Combination auto-truck and wagon dump. No. 1,390,368; Sept. 13; v. 290; p. 253.
- Mann, Randolph M., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Automatic powder-cutter. No. 1,367,513; Feb. 1; v. 283; p. 125.
- Mann, William, Company. (See Longmessaer, Paul C., assignor.)
- Mann, William, Company. (See Prizer, Harry A., assignor.)
- Mann, William J. N., London, England. Locking device for use with road-vehicles. No. 1,391,687; Sept. 27; v. 290; p. 656.
- Manners, Charles E., Glenville Glen, Crafer's, South Australia, Australia. Attachment for ax-heads. No. 1,388,475; Aug. 23; v. 289; p. 680.
- Mannin, George W., Chicago, Ill. Broom-trimming machine and method. No. 1,381,927; June 21; v. 287; p. 416.
- Manning, Carl O. (See Morehouse, F. E., and Manning.)
- Manning, Coleman J., Medford, Mass. Pressure-gage. No. 1,372,182; Mar. 22; v. 284; p. 629.
- Manning, Harry W., Portland, Oreg. Oil-burner. No. 1,389,207; Aug. 30; v. 289; p. 878.
- Manning, J. E., et al., trustees. (See Hulbert, Ansel C., assignor.)
- Manning, J. T., and C. F. Cludius, Philadelphia, Pa., assignors to Loomis-Manning Filter Manufacturing Company, Camden, N. J. Apparatus for supplying hot water in houses. No. 1,377,714; May 10; v. 286; p. 310.
- Manning, Maxwell & Moore. (See Crocker, Ernest B., assignor.)
- Manning, Maxwell & Moore. (See Darling, Philip G., assignor.)
- Manning, Maxwell & Moore. (See Graesser, C. H., and Crocker, assignors.)
- Manning, Maxwell & Moore Inc. (See Evans, Harrison E., assignor.)
- Manning, Maxwell & Moore, Inc. (See Fickett, E. L., and Charushin, assignors.)
- Manning Maxwell and Moore, Inc. (See Williston, Belvin T., assignor.)
- Manning, Sanford E., West Columbia, Tex. Means for moving the drive-shafts of steam-engines from dead-centers. No. 1,390,536; Sept. 13; v. 290; p. 288.
- Manning, William H., Sioux Valley township, Union county, Iowa. Vehicle-buffer. No. 1,401,269; Dec. 27.
- Manns, Jack A., Toronto, Ontario, Canada. Electric engine. No. 1,377,087; May 3; v. 286; p. 185.
- Manny, Fred L., assignor to Baker-Vawter Company, Benton Harbor, Mich. Device for forming posting-slips. No. 1,379,411; May 24; v. 286; p. 760.
- Manny, Fred L., assignor to Baker-Vawter Company, Benton Harbor, Mich. Binder-rack. No. 1,401,171; Dec. 27.
- Manny, Raymond A., and J. A. Rielly, Brooklyn, N. Y. Garter. No. 1,377,903; May 10; v. 286; p. 349.
- Manoilovich, Nicholas D. (See D'Iorio, V., and Manoilovich.)
- Manoilovich, Nicholas D. (See Thorne, H., and Manoilovich.)
- Mansbendel, Fritz P., Brooklyn, assignor to Ultra Earphone Co., Inc., New York, N. Y. Telephone apparatus. No. 1,399,268; Dec. 6.
- Mansel, Paul, Charlottenburg, near Berlin, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, Germany. Electric clock. No. 1,373,517; Apr. 5; v. 285; p. 27.
- Mansell, Walter H., Grays, England. Lock-nut. No. 1,364,397; Jan. 4; v. 282; p. 68.
- Mansell, Walter H., Grays, England. Nut-lock and the like. No. 1,383,414; July 5; v. 288; p. 33.
- Mansfield, Frederick H., Washington, D. C. Luggage-carrier. No. 1,400,758; Dec. 20.
- Mansfield, George F., Pascagoula, Miss. Rainproof hood-cover for automobiles. No. 1,399,358; Dec. 6.
- Mansfield, Judson H., assignor to Greenlee Bros. & Co., Rockford, Ill. Carriage feed and stop mechanism. No. 1,376,714; May 3; v. 286; p. 63.
- Mansfield, Judson H., assignor to Greenlee Bros. & Co., Rockford, Ill. Tool-carrier feed. No. 1,376,715; May 3; v. 286; p. 63.
- Manshel, Charles, Newark, N. J. Check stamping and issuing machine. No. 1,393,232; Oct. 11.
- Manson, George J., Toronto, Ontario, Canada. Manufacturing fiber products. No. 1,399,976; Dec. 13.
- Manson, Ray H., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Microphone. No. 1,378,708; May 17; v. 286; p. 555.
- Manss, Harvey M., assignor to Hooven and Allison Co., Cincinnati, Ohio. Marking device. No. 1,369,450; Feb. 22; v. 283; p. 645.
- Mansure, Nellie E., Chicago, Ill. Bolster or pillow-roll support. No. 1,395,506; Nov. 1.
- Mantel, Florian J., assignor to Crouse-Hinds Company, Syracuse, N. Y. Spring-barrel construction. No. 1,387,794; Aug. 16; v. 289; p. 488.
- Manternach, John C., Lakewood, assignor to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel with demountable rim. No. 1,379,032; May 24; v. 286; p. 689.
- Mantle Lamp Company of America, The. (See Davis, Cortland W., assignor.)
- Manton, Henry D. (See Hull, John W., assignor.)
- Manuel, Hermogenes, Cebu, Cebu, Philippine Islands. Finger-pencil. No. 1,391,556; Sept. 20; v. 290; p. 557.
- Manufactur de Produits Chimiques du Nord, Etablissements Kuhlmann. (See Geschwind, Lucien, assignor.)
- Manufacturers Equipment Company, The. (See Justice, Ithamar M., assignor.)
- Manufacturers' Hardware Corporation. (See Beeman, Lyle, assignor.)
- Manutil Corporation, The. (See Buskard, Samuel G., assignor.)
- Manville, E. J., Machine Company, The. (See Gaess, Albert H., assignor.)
- Many, Julius, New York, N. Y. Combined tire-valve and pressure-indicator. No. 1,377,596; May 10; v. 286; p. 288.
- Manz, Jakob, assignor of one-half to W. E. Deveson, London, England. Petrol or spirit lighter for cigars and other objects. No. 1,401,344; Dec. 27.
- Mapel, Lewis A., assignor to Automatic Appliance Company, St. Louis, Mo. Signal mechanism. No. 1,388,278; Aug. 23; v. 289; p. 640.
- Maple, Cyril J. (See Maple, Edward J. and C. J.)
- Maple, Edward J. and C. J., Grafton, assignors of one-third to F. M. Stevens, Elyria, Ohio. Electric-switch lock. No. 1,379,640; May 31; v. 286; p. 878.
- Maranville, Alger G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Automatic gas-valve. No. 1,384,268; July 12; v. 288; p. 259.
- Maranville, Alger G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Valve-operating mechanism. No. 1,386,579; Aug. 2; v. 289; p. 120.
- Maranville, Harvey F., Akron, Ohio. Heating appliance. No. 1,392,071; Sept. 27; v. 290; p. 734.
- Maranville, Harvey F., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tread-curing press. No. 1,365,115; Jan. 11; v. 282; p. 250.
- Maranville, Harvey F., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Making articles of fabric and rubber. No. 1,382,208; June 21; v. 287; p. 468.
- Maranville, Harvey F., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Holder for rubber-heel washers. No. 1,385,086; July 19; v. 288; p. 510.
- Maranville, Harvey F., assignor to The Miller Rubber Company, Akron, Ohio. Mandrel. No. 1,390,302; Sept. 13; v. 290; p. 241.
- Maranville, Harvey F., assignor to The Miller Rubber Company, Akron, Ohio. Air-bag for pneumatic-tire manufacture. No. 1,390,303; Sept. 13; v. 290; p. 241.
- Maranville, Harvey F., and H. D. Stevens, assignors to The Firestone Tire and Rubber Company, Akron, Ohio. Rubber-punching machine. No. 1,394,422; Oct. 18.
- Marathon Electric Mfg. Company. (See Kimble, Austin, assignor.)
- Marble, Webster L., Gladstone, Mich. Creel or trout-basket. No. 1,388,187; Aug. 23; v. 289; p. 621.
- Marble & Shattuck Chair Company, The. (See Foote, Thomas W., assignor.)
- Marbury, Ralph E., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric resistance element and making the same. No. 1,373,012; Mar. 29; v. 284; p. 833.
- Marceau, Ector F., East Hartford, Conn. Ink-distributor for printing-presses. No. 1,379,353; May 24; v. 286; p. 750.
- Marcel, Francois R., Brooklyn, N. Y. Hair-curler. No. 1,368,181; Feb. 8; v. 283; p. 311.
- Marcellette Hair Curler Co., The. (See Natkiel, Harry, assignor.)
- Marcero, Joseph L. (See Gruenberg, Walter A., assignor.)
- Marcworth, Otto S., Columbus, Ohio. Laminated article. No. 1,369,954; Feb. 15; v. 283; p. 509.
- March, George E., Muskegon, Mich. Nozzle. No. 1,380,403; June 7; v. 287; p. 15.
- March, George E., Muskegon, Mich. Irrigating or sprinkling system. No. 1,397,769; Nov. 22.
- Marchant Calculating Machine Company. (See Friden, Carl M. F., assignor.)
- Marchisio, Arthur C. J., Paris, France. Imitation-copper-engraving process. No. 1,385,567; July 26; v. 288; p. 684.
- Marcinek, Ferdinand A., assignor to J. V. Meyering Trunk Company, Chicago, Ill. Drawer-locking device. No. 1,379,999; May 31; v. 286; p. 945.
- Marconet, Orhan P., and W. O. Carter, Clarksburg, W. Va. Sheet-glass-drawing machine. No. 1,398,109; Nov. 22.
- Marconi, Guglielmo, London, England. Electric accumulator. No. 1,377,722; May 10; v. 286; p. 312.
- Marcotte, O. F. (See Hughes, Louis J., assignor.)
- Marcovsky, Frank, Duquesne, Pa. Collapsible boat. No. 1,372,528; Mar. 22; v. 284; p. 695.
- Marco, Ludovic, Boulogne, France. Firearm. No. 1,372,763; Mar. 29; v. 284; p. 782.
- Marcus, Benjamin H., Brooklyn, N. Y. Hook or eye. No. 1,379,872; May 31; v. 286; p. 921.
- Marcus, Charles, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Dynamo-electric apparatus. No. 1,373,901; Apr. 5; v. 285; p. 102.
- Marcus, Harry, Minneapolis, Minn. Legging. No. 1,367,750; Feb. 8; v. 283; p. 229.
- Marcus, Jacob. (See Bergen, J. F., and Marcus.)



- Marcus, Samuel, Brooklyn, assignor to F. & M. Novelty Co., Inc., New York, N. Y. Doll's head and eyes therefor. No. 1,373,439; Apr. 5; v. 285; p. 11.
- Marcus, Samuel, Brooklyn, assignor to F. & M. Novelty Co., Inc., New York, N. Y. Doll's head and eyes therefor. No. 1,373,440; Apr. 5; v. 285; p. 12.
- Marcuse, Moses M., assignor to West Disinfecting Company, New York, N. Y. Dispensing device for sheet material. No. 1,400,619; Dec. 20.
- Marcuson, Elias, New York, N. Y. Paper feeding and collating device. No. 1,370,660; Mar. 8; v. 284; p. 217.
- Marczynski, Peter, Milwaukee, Wis. Draft-regulator. No. 1,399,637; Dec. 6.
- Marcy, Frank E., Salt Lake City, Utah. Flotation apparatus. No. 1,383,321; July 5; v. 288; p. 13.
- Marden, William L., assignor to Neptune Meter Company, New York, N. Y. Register for water-meters, &c. No. 1,397,534; Nov. 22.
- Marden, William L., assignor to Neptune Meter Company, New York, N. Y. Water-meter. No. 1,400,559; Dec. 20.
- Mardis, Paul L., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,387,503; Aug. 16; v. 289; p. 429.
- Mardis, Paul L., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,395,349; Nov. 1.
- Mardis, Samuel J., Johnstown, Pa. Vehicle-wheel. No. 1,389,891; Sept. 6; v. 290; p. 67.
- Mardorf Printing Company. (See Lindsay, Franklin G., assignor.)
- Maréchal, Pierre M. G. (See Hervieu, G., and Maréchal.)
- Marendowski, Victor, Paris, France. Stud for spring-pressure fasteners or buttons. No. 1,380,000; May 31; v. 286; p. 945.
- Marden, Charles W., Portsmouth, N. H. Draft-regulator. No. 1,371,800; Mar. 15; v. 284; p. 500.
- Marder, Clarence C., New York, N. Y., assignor to American Type Founders Company, Jersey City, N. J. Type fractions and use. No. 1,375,307; Apr. 19; v. 285; p. 476.
- Mardis, Paul L. (See Hall, A. J., and Mardis.)
- Mardis, Paul L., and Lynn G. Riley, Wilkensburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control system. No. 1,371,566; Mar. 15; v. 284; p. 456.
- Marf Machine & Die Casting Co. (See Jansson, Avid, assignor.)
- Margileth, Adolph W., Cincinnati, Ohio. Sign. No. 1,394,853; Oct. 25.
- Margo, Arthur, Nantes, France. Furnace for burning factory refuse. No. 1,390,304; Sept. 13; v. 290; p. 241.
- Margolin, George, New York, assignor to A. R. Mosler & Company, Mount Vernon, N. Y. Spark-plug. No. 1,397,321; Nov. 15.
- Margraf, Willy, New York, N. Y. Weather-indicator. No. 1,387,287; Aug. 9; v. 289; p. 334.
- Margules, Harry, New York, N. Y. Lock. No. 1,365,714; Jan. 18; v. 282; p. 405.
- Marheine, Frederick W., assignor of one-half to E. Hansen, Spokane, Wash. Sash-holder. No. 1,381,725; June 14; v. 287; p. 319.
- Marichal, Georges G. O., Paris, France. Door-stop. No. 1,387,795; Aug. 16; v. 289; p. 488.
- Marien, Charles A., assignor to H. & H. Machine Company, St. Louis, Mo. Piston for engine-cylinders. No. 1,371,320; Mar. 15; v. 284; p. 406.
- Marien, Charles A., assignor to H. & H. Machine Company, St. Louis, Mo. Piston for engine-cylinders. No. 1,388,279; Aug. 23; v. 289; p. 640.
- Marien, Charles A., St. Louis, Mo. Automobile-radiator. No. 1,391,485; Sept. 20; v. 290; p. 542.
- Marien, Charles A., St. Louis, Mo. Automobile-radiator. No. 1,391,486; Sept. 20; v. 290; p. 542.
- Marien, Charles A., St. Louis, Mo. Piston-ring pot-casting and making piston-rings therefrom. No. 1,394,633; Oct. 25.
- Marine Decking and Supply Co. (See Lee, William J., assignor.)
- Marinier, Gilbert P., and E. E. Chrysler, Pontiac, Mich. assignors to General Motors Corporation, Detroit, Mich. Car-loading system. No. 1,394,038; Oct. 18.
- Marino, Michael, New York, N. Y. Lock. No. 1,386,641; Aug. 9; v. 289; p. 205.
- Marinsky, Davis, New York, N. Y. Protector for the tread members of shoes. No. 1,375,101; Apr. 19; v. 285; p. 437.
- Marinsky, Davis, New York, N. Y. Retainer for the closure-caps of collapsible tubes. No. 1,389,956; Sept. 6; v. 290; p. 80.
- Marinsky, Davis, New York, assignor to D. Horowitz, Brooklyn, N. Y. Hair-curling device. No. 1,390,803; Sept. 13; v. 290; p. 432.
- Marinsky, Louis, New York, assignor to I. F. Greenbaum, Brooklyn, N. Y. Machine for automatically attaching closing-clips for flexible tubes. No. 1,378,596; May 17; v. 286; p. 533.
- Marion, George J., Cotter, assignor of one-half to A. M. Smith, Cushman, Ark. Stove-oven. No. 1,371,105; Mar. 8; v. 284; p. 302.
- Marion Machine Foundry and Supply Company, The. (See Smith, E. B., and Loucks, assignors.)
- Maris, Fred D., Toppenish, Wash. Self-laying twin tractor-wheel. No. 1,388,737; Aug. 23; v. 289; p. 730.
- Maris, Joseph G., Detroit, Mich. Danger or stop and direction signal. No. 1,384,205; July 12; v. 288; p. 245.
- Marius, Harry. (See Charlton, Robert W., assignor.)
- Markell, Alexander. (See Newth, Basil, assignor.)
- Markell, Theodore O., Cleveland, Ohio. Inner tube for pneumatic tires. No. 1,369,257; Feb. 22; v. 283; p. 608.
- Markem Machine Company. (See Putnam, F. A., and Robbins, assignors.)
- Markem Machine Company. (See Robbins, Charles F., assignor.)
- Markert, Frederick E., assignor to John Boyle & Company, Incorporated, New York, N. Y. Fastening device. No. 1,395,443; Nov. 1.
- Markgraf, Marc G., Brooklyn, N. Y. Phonograph-record-receiving envelop and making the same. No. 1,379,198; May 24; v. 286; p. 720.
- Markham Air Rifle Company. (See Roe, Ernest S., assignor.)
- Markham, Charles M., Milwaukee, Wis. Concrete salvage jack-head. No. 1,374,598; Apr. 12; v. 285; p. 277.
- Markham, Charles M., Milwaukee, Wis. Jack-actuating lever. No. 1,401,172; Dec. 27.
- Markham, James P., Jr. (See Runyan, Benjamin F., assignor.)
- Markley, Henry L., Kansas, Minn. Wall-paper paster and trimmer. No. 1,371,920; Mar. 15; v. 284; p. 522.
- Markkula, Matt, Fort Bragg, Calif. Stake for flat-cars. No. 1,398,441; Nov. 29.
- Markiewicz, Antoni, Detroit, Mich. Figure wheeled toy. No. 1,391,843; Sept. 27; v. 290; p. 688.
- Marklein, Otto, Brooklyn, assignor to W. O. Shadbolt, New York, N. Y. Tail-gate for vehicles. No. 1,390,999; Sept. 20; v. 290; p. 443.
- Marko, Paul M., Brooklyn, N. Y. Storage battery. No. 1,368,817; Feb. 15; v. 283; p. 483.
- Markos, Gus W., Columbus, Ohio. Vehicle direction-signal. No. 1,379,117; May 24; v. 286; p. 705.
- Markovich, Mike, Bosevac, Jugo-Slavia, assignor of one-half to D. Stupich, South Wellington, British Columbia, Canada. Snow-gathering device. No. 1,397,436; Nov. 15.
- Marks, Abraham, Elizabeth, N. J. Tire-spreader. No. 1,379,354; May 24; v. 286; p. 750.
- Marks, Albert J., New Britain, Conn. Numbering-machine. No. 1,395,722; Nov. 1.
- Marks, Herbert E. (See Benedict, Edward L., assignor.)
- Marks, Herbert E., Sewickley, Pa. Roof structure. No. 1,398,079; Nov. 22.
- Marks, Herbert E., Sewickley, and W. R. Frazier, assignors to Asbestos Protected Metal Company, Pittsburgh, Pa. Building construction. No. 1,386,130; Aug. 2; v. 289; p. 34.
- Marks, Isidore, Dorchester, Mass. Eyes for dolls. No. 1,374,212; Apr. 12; v. 285; p. 202.
- Marks, Isidore, Boston, Mass. Horn-reed. No. 1,390,305; Sept. 13; v. 290; p. 241.
- Markwell, Andrew E., assignor of one-half to S. C. Evans, Fort Worth, Tex. Printing rule and slug and type-forms. No. 1,364,125; Jan. 4; v. 282; p. 15.
- Markus, Jacob, Corsica, S. D. Pig-forceps. No. 1,380,995; June 7; v. 287; p. 129.
- Marland Refining Company. (See Rial, Wirt D., assignor.)
- Marlatt, George E., Pasadena, Calif. Typographical machine. No. 1,389,869; Aug. 30; v. 289; p. 911.
- Marlin Firearms Corporation, The. (See Rockwell, Hugh M., assignor.)
- Marlin Firearms Corporation. (See Swebilus, Carl G., assignor.)
- Marlow, Richard, Ralph, Ala. Gear-wheel. No. 1,394,751; Oct. 25.
- Marmon, Howard. (See Thoms, Max H., assignor.)
- Marquardt, Julius H., Lombard, Ill. Combined spark-plug holder and tester. No. 1,383,476; July 5; v. 288; p. 45.
- Marquart, Walter E., San Francisco, Calif. Collapsible rim. No. 1,393,302; Oct. 11.
- Marquette, Ira G., Wheeling, W. Va. Gas-burner. No. 1,397,977; Nov. 22.
- Marquette, Melvon A., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tube-splicing. No. 1,385,220; July 19; v. 288; p. 537.
- Marquette, Melvon A., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Reinforcement for tire-beds. No. 1,385,383; July 26; v. 288; p. 645.
- Marquette Piano Company, The. (See Wilcox, Russell I., assignor.)
- Marquette Tool & Manufacturing Company. (See Glasner, R. W., and Balcker, assignors.)
- Marquette Tool & Mfg. Co. (See Balcker, Martin, assignor.)
- Marr, Alexander, Biggin Hill, England. Sound-transmitting instrument. No. 1,388,963; Aug. 30; v. 289; p. 830.
- Marr, Arthur P., Brooklyn, assignor to Oceanic Salvage Corporation, New York, N. Y. Flexible joint for diving-armor. No. 1,383,322; July 5; v. 288; p. 13.
- Marr, Bliss W., Detroit, Mich. Nut-lock. No. 1,382,306; June 21; v. 287; p. 486.
- Marr, Robert A. (See Twombly, A. H., Lundin, and Marr.)



*Alphabetical list of patentees—Continued.*

- Marr, Robert A., Norfolk, Va. Recovering used paper. No. 1,396,227; Nov. 8.
- Marr, Robert D. (See Marr, Stuart D. and R. D.)
- Marr, Stuart D. and R. Malham, London, England. Steering-wheel lock. No. 1,381,726; June 14; v. 287; p. 319.
- Marron, J. T., et al. (See Leveen, Swan J., assignor.)
- Marriott, Burton J., Petrolia, Ontario, Canada. Window screen. No. 1,393,560; Oct. 11.
- Marriott, Harry H., Kansas City, Mo. Sign. No. 1,377,904; May 10; v. 286; p. 340.
- Marriott, Harry H., Okmulgee, Okla. Sign. No. 1,395,853; Nov. 1.
- Marriott, John E., Latrobe, Pa. Artificial tooth. No. 1,380,819; June 7; v. 287; p. 95.
- Marriott, Robert H., Bremerton, Wash. Radioreceiving system. No. 1,371,567; Mar. 15; v. 284; p. 456.
- Marris, Hubert C., assignor to William Walker and Sons Limited, Bolton, England. Gas-purifying composition and making same. No. 1,379,462; May 24; v. 286; p. 769.
- Marlatt, George E., Pasadena, Calif. Typographical machine. No. 1,366,578; Jan. 25; v. 282; p. 619.
- Marlatt, George E., Pasadena, Calif. Typographical machine. No. 1,366,579; Jan. 25; v. 282; p. 619.
- Marple, Rollo. (See Wright, William E., assignor.)
- Marquardt, Frank C., Brooklyn, assignor to American Bank Note Company, New York, N. Y. Plate-registering mechanism for printing-machines. No. 1,374,859; Apr. 12; v. 285; p. 327.
- Mars, Charles M. (See Hathaway, E. F., and Mars.)
- Mars, Charles M., Dorchester, Mass., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Textile-machine. No. 1,381,653; June 14; v. 287; p. 304.
- Marsa, Melchor, New York, assignor to International Cork Company, Brooklyn, N. Y. Cork-cutting machine. No. 1,374,022; Apr. 5; v. 285; p. 125.
- Marsa, Melchor, New York, assignor to International Cork Company, Brooklyn, N. Y. Bottle-Crowning Machine. No. 1,379,118; May 24; v. 286; p. 705.
- Marsch, Stella E., administratrix. (See Woolson, Thomas D.)
- Marschall, Alfred N., Baltimore, Md. Refrigerator. No. 1,366,014; Jan. 18; v. 282; p. 464.
- Marschke, Frederick W. (See Marschke, William A., and F. W.)
- Marschke Manufacturing Company. (See Marschke, William A., and F. W., assignors.)
- Marschke, William A. and F. W., assignors to Marschke Manufacturing Company, Indianapolis, Ind. Grinder-hood. No. 1,372,035; Mar. 22; v. 284; p. 601.
- Marsden, James, Wigan, England. Sewing-machine. No. 1,394,039; Oct. 18.
- Marsden, John E. (See Milliken, John A., assignor.)
- Marsden, Mark W., Philadelphia, Pa. Trespass-sign for automobiles. No. 1,397,770; Nov. 22.
- Marsek, Steven, New York, N. Y. Aeroplane. No. 1,383,652; July 5; v. 288; p. 81.
- Marsel, Joseph, Milwaukee, Wis. Lock for automobile steering mechanism. No. 1,401,173; Dec. 27.
- Marsh, Albert, Chertsey, England. Ticket delivering, checking, and registering machine. No. 1,378,419; May 17; v. 286; p. 498.
- Marsh, Edward S., Rochester, N. Y. Spring-motor and winding means therefor. No. 1,380,111; May 31; v. 286; p. 966.
- Marsh, Gilbert, administrator. (See Forrester, G. H., and Marsh, G. and J. D.)
- Marsh, H. S., and R. S. Cochran, Youngstown, Ohio. Method and apparatus for reclaiming spent pickling solutions. (Reissue.) No. 15,119; June 7; v. 287; p. 149.
- Marsh, Henry S., and R. S. Cochran, Youngstown, Ohio. Method of and apparatus for reclaiming spent pickling solutions. No. 1,369,451; Feb. 22; v. 283; p. 645.
- Marsh, Henry S., and R. S. Cochran, Youngstown, Ohio. Pickling metal articles. No. 1,392,780; Oct. 4.
- Marsh, Henry S., and R. S. Cochran, Youngstown, Ohio. Apparatus for pickling metal articles. No. 1,392,781; Oct. 4.
- Marsh, Howard E. (See Starr, E. B., and Marsh.)
- Marsh, Hugh M., assignor to G. M. Nelson, Chicago, Ill. Ventilator. No. 1,389,261; Aug. 30; v. 289; p. 889.
- Marsh, James B., Des Moines, Iowa. Arch-bridge construction. No. 1,388,584; Aug. 23; v. 289; p. 700.
- Marsh, John D. (See Forrester, G. H., and Marsh, G. and J. D.)
- Marsh, John W. (See Hill, E. R., and Marsh.)
- Marsh, John W., New York, N. Y. Swing-truck-yoke support for railway rolling-stock. No. 1,388,818; Aug. 23; v. 289; p. 746.
- Marsh, Orlando R., Chicago, Ill. Phonograph-reproducer. No. 1,392,430; Oct. 4.
- Marsh, Thomas A., Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind. Fire-arch. No. 1,393,805; Oct. 18.
- Marsh, W. J., et al. (See Berry, George A., assignor.)
- Marsh, William R., Muskogee, Okla. Windshield-shade. No. 1,383,323; July 5; v. 288; p. 13.
- Marshall, Albert H. (See Hogan, George L., assignor.)
- Marshall, Albert H., Chicago, Ill. Apparatus for dispensing and printing paper tape. No. 1,392,692; Oct. 4.
- Marshall, Alfred M., Savannah, Ga. Mixing and screening device for fertilizers and the like. No. 1,392,589; Oct. 4. (See Moseley, Emerson B., assignor.)
- Marshall, Benjamin F. (See Alvarez, A., and Marshall.)
- Marshall, Cesar, New York, N. Y. Magnetic controlling device. No. 1,388,658; Aug. 23; v. 289; p. 715.
- Marshall, Charles H., assignor to Marshall Manufacturing Company, Omaha, Nebr. Cherry-pitting machine. No. 1,390,804; Sept. 13; v. 290; p. 342.
- Marshall, Dale, Cheltenham, England. Wheel having self-contained motor. No. 1,384,142; July 12; v. 288; p. 233.
- Marshall, E. W. (See Clark, William T., assignor.)
- Marshall, Ernest W., Yonkers, assignor to J. E. Ogden, Mountainville, N. Y. Expansion-shield. No. 1,394,925; Oct. 25.
- Marshall Field & Company. (See Parmenter, Joseph J., assignor.)
- Marshall, Frederick D. (See Nielsen, H., and Marshall.)
- Marshall, Fred N., Dallas, Tex. Street-directory. No. 1,386,347; Aug. 2; v. 289; p. 76.
- Marshall, George G., Cleveland Heights, Ohio. Air-controlling device for automobile-radiators. No. 1,379,308; May 24; v. 286; p. 741.
- Marshall, George G., Cleveland Heights, Ohio. Air-circulation-controlling device for automobile-radiators. No. 1,387,062; Aug. 9; v. 289; p. 391.
- Marshall, George G. (See Booth, H. S., and Marshall.)
- Marshall Manufacturing Company. (See Marshall, Charles H., assignor.)
- Marshall, Granville, London, England. Book. No. 1,373,090; Mar. 29; v. 284; p. 847.
- Marshall, Guy, Calgary, Alberta, Canada. Seat construction for farming-machines. No. 1,375,225; Apr. 19; v. 285; p. 460.
- Marshall, John L. and R. E. Davis, Fort Payne, Ala. Circular-knitting machine. No. 1,386,580; Aug. 2; v. 289; p. 120.
- Marshall, Lewis C., Walpole, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston-ring. No. 1,367,405; Feb. 1; v. 283; p. 104.
- Marshall, Lewis C., Walpole, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston-packing. No. 1,400,560; Dec. 20.
- Marshall, Norman. (See Bell, L., and Marshall.)
- Marshall, Norman, and L. Bell, West Newton, Mass. Method and apparatus for utilization of observable radiations. No. 1,385,696; July 26; v. 288; p. 710.
- Marshall, Percy A., Los Angeles, Calif. Mechanical toy. No. 1,385,634; July 26; v. 288; p. 698.
- Marshall, Robert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread-parting mechanism. No. 1,367,070; Feb. 1; v. 283; p. 37.
- Marshall, Sylvester, Athens, Ohio. Grading or separating machine. No. 1,399,022; Dec. 6.
- Marshall, Thomas C., Mount Savage, assignor to Kelly-Springfield Tire Company, Cumberland, Md. Molding-core. No. 1,392,072; Sept. 27; v. 290; p. 735.
- Marshall Ventilated Mattress Company. (See Genge, Fredrick C., assignor.)
- Marshall, William J., Newark, N. J., assignor to H. Maimin Co., Inc. Handle-block for cloth-cutting machines. No. 1,372,079; Mar. 22; v. 284; p. 609.
- Marshall, Addison B., Kansas City, Kans. Card-holder. No. 1,376,716; May 3; v. 286; p. 63.
- Marshick, Oliver J. (See Crosby, E. L., and Marshick.)
- Marshick, Oliver J., Detroit, Mich. Electric reversing mechanism. No. 1,364,507; Jan. 4; v. 282; p. 90.
- Marshutz, Herbert S., assignor to American Thermo-Ware Company, New York, N. Y. Hydrometer-syringe. No. 1,394,322; Oct. 18.
- Marsico, Gerard R., assignor to Puriton Manufacturing Corporation, Brooklyn, N. Y. Horn-shell and bracket. No. 1,391,688; Sept. 27; v. 290; p. 656.
- Marsico, Gerard R., assignor to Puriton Manufacturing Corporation, Brooklyn, N. Y. Signal. No. 1,393,896; Oct. 18.
- Marsico, Gerard R., assignor to Puriton Manufacturing Corporation, Brooklyn, N. Y. Signal. No. 1,393,897; Oct. 18.
- Marsico, Gerard R., assignor to Puriton Manufacturing Corporation, Brooklyn, N. Y. Signal. No. 1,393,898; Oct. 18.
- Marsico, Gerard R., assignor to Puriton Manufacturing Corporation, Brooklyn, N. Y. Signal. No. 1,393,899; Oct. 18.
- Marston, Clifford J. (See Doan, H. C., and Marson.)
- Marsteller, Sylvester A., Carrick, assignor of one-half to J. H. Roney, Pittsburgh, Pa. Brick and wall construction. No. 1,395,507; Nov. 1.
- Marston, Edgar J. (See Smith, Herman A., assignor.)
- Marston, John R., Clarkdale, Ariz. Manufacture of cadmium pigment. No. 1,399,506; Dec. 6.
- Martel, Adelard F., assignor to James A. Grant, Burlingame, Calif. Mail-box. No. 1,363,126; Jan. 4; v. 282; p. 15.
- Martel Filter Company. (See Martel, Louis J., assignor.)
- Martel, Gaudiase, attorney. (See Martel, Wilfrid.)
- Martel, Joseph, Montreal, Quebec, Canada. Means for compressing springs to remove same from trucks. No. 1,397,437; Nov. 15.
- Martel, Louis J., assignor to Martel Filter Company, Inc., New Orleans, La. Flushing apparatus for use with pressure-filters. No. 1,370,469; Mar. 1; v. 284; p. 135.



*Alphabetical list of patentees—Continued.*

- Martel, Louis J., assignor to Martel Filter Company, Inc., New Orleans, La. Filter-frame for use with pressure-filters. No. 1,370,470; Mar. 1; v. 284; p. 136.
- Martel, Louis V., and Philip Methot, Manchester, N. H. Washing-machine. No. 1,369,686; Feb. 22; v. 283; p. 691.
- Martel, Wilfrid, deceased, Theftford Mines West, Quebec, Canada; G. Martel, attorney. Shade-bracket. No. 1,370,545; Mar. 8; v. 284; p. 195.
- Martell, Albert A., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Adjustable reamer-head. No. 1,376,450; May 3; v. 286; p. 14.
- Martell, Albert A., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Adjustable bushing for reamer-shafts. No. 1,376,451; May 3; v. 286; p. 14.
- Martell, Albert A., Mansfield, Mass., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Device for aligning and finishing shaft-bearings and the like. No. 1,382,842; June 28; v. 287; p. 643.
- Martell, Albert A., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Movable zero-scale for reamers and the like. No. 1,382,843; June 28; v. 287; p. 643.
- Martell, Albert A., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Mounting for reamer-blades. No. 1,383,835; July 5; v. 288; p. 120.
- Martell, Albert A., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Plug-gage. No. 1,393,233; Oct. 11.
- Martell, Charles B., New Orleans, La. Portable rack or frame. No. 1,383,324; July 5; v. 288; p. 13.
- Martello, Carl. (See Cravelene, T., and Martello.)
- Marten, George C., Effingham, Ill. Combination-tool. No. 1,374,751; Apr. 12; v. 285; p. 306.
- Martin, Adolphus J., Passaic, N. J. Wooden shell. No. 1,385,635; July 26; v. 288; p. 698.
- Martin, Alfred N., New Dorp, N. Y. Piston. No. 1,394,926; Oct. 25.
- Martin, Albert W. (See Murphy, F. K., Martin, and Weldman.)
- Martin, Alvin. (See Smith, Richard I., assignor.)
- Martin, Anna, Cincinnati, Ohio. Desk-receptacle. No. 1,396,228; Nov. 8.
- Martin, Bertrand G., London, England. Loose-leaf book. No. 1,400,891; Dec. 20.
- Martin, Cecil R., assignor to Frantz Manufacturing Co., Sterling, Ill. Door-hanger track and housing. No. 1,380,668; June 7; v. 287; p. 55.
- Martin, Charles C., and J. H. Cotton, assignors to The Kilbourne and Jacobs Manufacturing Company, Columbus, Ohio. Automobile-vehicle. No. 1,364,398; Jan. 4; v. 282; p. 68.
- Martin, Charles E., Louisville, Ky. Hair-drier. No. 1,364,777; Jan. 4; v. 282; p. 141.
- Martin, Charles H., assignor of one-half to A. K. Della-rowe and one-half to E. Hull, Los Angeles, Calif. Evelop-holding attachment for printing-press platens. No. 1,401,174; Dec. 27.
- Martin, Clyde W., Little Rock, Ark., assignor of one-half to L. E. Hoffman, St. Louis, Mo. Portable grocery-store. No. 1,379,463; May 24; v. 286; p. 770.
- Martin, Edgar D., assignor of one-half to R. E. Schmidt, Chicago, Ill. System of integrally-cast reinforced concrete pitched-roof construction for buildings. No. 1,392,280; Sept. 27; v. 290; p. 776.
- Martin, Elizabeth M., Sterling, Ill. Radiator-brush. No. 1,389,957; Sept. 6; v. 290; p. 80.
- Martin, Ernest, Marseille, France. Manufacture of pure alumina. No. 1,394,854; Oct. 25.
- Martin, Ernest C., Antrim, N. H. Steel for sharpening cutlery. No. 1,394,927; Oct. 25.
- Martin, Fernand P., Paris, France. Apparatus for delivering materials. No. 1,393,561; Oct. 11.
- Martin, Frank L., R. P., and L. H., Thornville, Ohio. Mail catching and delivering device. No. 1,388,738; Aug. 23; v. 289; p. 730.
- Martin, Frederick. (See Downey, Andrew, assignor.)
- Martin, Frederick D., Kansas City, Mo. Garment-fastener. No. 1,368,818; Feb. 15; v. 283; p. 483.
- Martin, Frederick D., Kansas City, Mo. Gromet. No. 1,384,565; July 12; v. 288; p. 320.
- Martin, Frederick W. (See Hummell, H., Martin, and Schwall.)
- Martin, Frederick W., Wichita, Kans. Automobile-radiator. No. 1,365,930; Jan. 18; v. 282; p. 448.
- Martin, George A. (See Walker, M. B., and Martin.)
- Martin, George A., Chicago, Ill. Window frame and sash structure. No. 1,397,221; Nov. 15.
- Martin, Haakon A., Christiania, Norway, assignor to The National Cash Register Company, Dayton, Ohio. Railway-ticket-issuing machine. No. 1,398,562; Nov. 29.
- Martin, Haakon A., Whitestone, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Slip printing and registering machine. No. 1,399,391; Dec. 6.
- Martin, Harold G., Philadelphia, Pa., assignor of one-half to M. H. Newgirk, Baltimore, Md. Bearing-brass. No. 1,383,958; July 5; v. 288; p. 145.
- Martin, Harry L., and W. C. Willis, Memphis, Tenn. Car seal. No. 1,393,033; Oct. 11.
- Martin, Harry P., Clearfield, Pa. Road-construction machinery. No. 1,384,077; July 12; v. 288; p. 219.
- Martin, Hugh E., Madison, Wis. Sanitary flytrap. No. 1,373,441; Apr. 5; v. 285; p. 12.
- Martin Iron Works. (See Carr, John A., assignor.)
- Martin, Isaac, Pittsburgh, Pa. Mine-car coupling. No. 1,380,301; May 31; v. 286; p. 1002.
- Martin, Isaac, San Diego, Calif. Differential axle. No. 1,394,855; Oct. 25.
- Martin, Jacob F., Bellevue, Ohio. Automobile-buffer. No. 1,395,925; Nov. 1.
- Martin, James A., Jersey City, N. J. Car-roof guard-rail. No. 1,364,843; Jan. 4; v. 282; p. 153.
- Martin, James A., assignor to Martin Metal Products Company, Galesburg, Ill. Hog-waterer. No. 1,365,260; Jan. 11; v. 282; p. 278.
- Martin, James M., Dallas, Tex. Holder for dental X-ray films. No. 1,378,709; May 17; v. 286; p. 555.
- Martin, James W., Chattanooga, Tenn. Water-closet valve. No. 1,365,931; Jan. 18; v. 282; p. 449.
- Martin, James V., Elyria, Ohio. Aerofoil. No. 1,400,177; Dec. 13.
- Martin, Jesse C., Jr., San Francisco, Calif. Plug-cock. No. 1,365,116 Jan. 11; v. 282; p. 250.
- Martin, Jesse S., Reidsville, N. C. Automobile-wheel attachment. No. 1,374,939; Apr. 19; v. 285; p. 405.
- Martin, John, Rugby, England, assignor to General Electric Company. Induction-motor. No. 1,366,580; Jan. 25; v. 282; p. 620.
- Martin, John, Amorita, Okla. Clamp-belt guide. No. 1,385,878; July 26; v. 288; p. 747.
- Martin, John F., Charles Town, W. Va. Shoe-sole. No. 1,364,570; Jan. 4; v. 282; p. 101.
- Martin, John H., New Hartford, N. Y. Measuring and describing instrument. No. 1,397,816; Nov. 22.
- Martin, John J., Dallas, Tex. Tractor. No. 1,379,464; May 24; v. 286; p. 770.
- Martin, John L. (See Eger, Louis, assignor.)
- Martin, Joseph. (See Deno, F. J. and Martin.)
- Martin, Joseph, Brooklyn, N. Y. Sweatband-protector. No. 1,391,902; Sept. 27; v. 290; p. 700.
- Martin, Junius A., and R. L. Lee; said Lee assignor, by mesne assignments, of his right to Carolina Automatic Machinery Company, Durham, N. C. Cutting attachment for hosiery-looping machines. No. 1,374,940; Apr. 19; v. 285; p. 405.
- Martin, Léon, Geneva, Switzerland. Paper-feeding mechanism. No. 1,373,254; Mar. 29; v. 284; p. 881.
- Martin, Louis F., St. Paul, Minn. Vehicle-tire. No. 1,380,820; June 7; v. 287; p. 95.
- Martin, Louis C., Willoughby, Ohio. Mold-insert-feeding mechanism. No. 1,391,334; Sept. 20; v. 290; p. 512.
- Martin, Luke H. (See Martin, Frank L., R. P., and L. H.)
- Martin Metal Products Company. (See Martin, James A., assignor.)
- Martin, Monroe G., Edinburg, Ind. High-temperature cooking system. No. 1,377,088; May 3; v. 286; p. 135.
- Martin, Olaf O., Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Typewriting and calculating machine. No. 1,378,047; May 17; v. 286; p. 428.
- Martin, Oliver C., Richmond Hill, N. Y., assignor to Nichols Copper Company, New York, N. Y. Process and apparatus for refining copper. No. 1,400,892; Dec. 20.
- Martin, Oliver O., assignor to B. Horwich, Chicago, Ill. Interlacing-machine. No. 1,372,625; Mar. 22; v. 284; p. 714.
- Martin, Oliver O., Chicago, Ill. Dental-floss holder. No. 1,389,064; Aug. 30; v. 289; p. 850.
- Martin, Paul, Roubaix, France. Rotary printing-press. No. 1,386,573; Aug. 2; v. 289; p. 119.
- Martin, Ralph, Winslow, Ind. Screen-hood. No. 1,383,959; July 5; v. 288; p. 145.
- Martin, Russell S., Honesdale, Pa. Foot-accelerator for Ford cars. No. 1,366,406; Jan. 25; v. 282; p. 584.
- Martin, Richard P. (See Martin, Frank L., R. P., and L. H.)
- Martin, Robert F., assignor to Robert F. Martin Corporation, New York, N. Y. Wall construction and brick therefor. No. 1,380,821; June 7; v. 287; p. 95.
- Martin, Robert F., assignor to Robert F. Martin Corporation, New York, N. Y. Wall construction and brick therefor. No. 1,400,893; Dec. 20.
- Martin, Robert F., Corporation. (See Martin, Robert F., assignor.)
- Martin, Robert L., Ocala, Fla. Automobile-body with traveling and housekeeping conveniences. No. 1,392,955; Oct. 11.
- Martin, Robert L., Ocala, Fla. Cooking-stove. No. 1,392,956; Oct. 11.
- Martin, Sherman J., Woodlawn, Pa. Reel. No. 1,396,450; Nov. 8.
- Martin, Stanley E., Bloom, Kans. Windmill-power engine. No. 1,394,104; Oct. 13.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,373,624; Apr. 5; v. 285; p. 47.
- Martin, Talbot G., assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,393,806; Oct. 18.
- Martin, Theophil, Newark, N. J. Skylight. No. 1,368,639; Feb. 15; v. 283; p. 448.



*Alphabetical list of patentees—Continued.*

- Martin, Thomas, Vancouver, British Columbia, Canada. Safety device for electric irons. No. 1,372,361; Mar. 22; v. 284; p. 664.
- Martin, Thomas H., Columbus, Ohio. Squeezer for collapsible tubes. No. 1,389,452; Aug. 30; v. 289; p. 927.
- Martin, Thomas P., Jr., Oklahoma, Okla. Paper-feed alarm for adding-machines. No. 1,378,887; May 24; v. 286; p. 661.
- Martin, Thomas T., Mobile, Ala. Calendar. No. 1,385,140; July 19; v. 288; p. 521.
- Martin, Truman J., Allentown, Pa. Antirattling device for auto-hoods. No. 1,365,932; Jan. 18; v. 282; p. 449.
- Martin, Truman J., Allentown, Pa. Auto-hood antirattling device. No. 1,375,257; Apr. 19; v. 285; p. 466.
- Martin, Truman J., Allentown, Pa. Window-glass silencer. No. 1,380,996; June 7; v. 287; p. 129.
- Martin, Walter S., Flint, Mich. Demountable rim. No. 1,396,134; Nov. 8.
- Martin, William. (See Enter, Fred F., assignor.)
- Martin, William A. (See Wenlock, W. B., and Martin.)
- Martin, William C., Memphis, Tenn. Backband-hook. No. 1,392,843; Oct. 4.
- Martin, William H. (See Osborne, H. S., and Martin.)
- Martin, William H., New York, N. Y., assignor to American Telephone and Telegraph Company. Apparatus for testing capacity of electric conductors. No. 1,375,405; Apr. 19; v. 285; p. 495.
- Martin, William H., Flushing, Netherlands. Machine for finishing turbine-blades and similar articles. No. 1,381,486; June 14; v. 287; p. 272.
- Martin, William H., New York, N. Y., assignor to American Telephone and Telegraph Company. Balancing signaling system. No. 1,395,854; Nov. 1.
- Martin, William H., Detroit, Mich. House mail-receptacle. No. 1,397,438; Nov. 15.
- Martin, William L., Harvard, Ill. Automatic watering-bowl or drinking-fountain. No. 1,393,303; Oct. 11.
- Martin, Mrs. William P., et al. (See Box, John V., assignor.)
- Martin, William W., Pittsburgh, Pa. Lubricator. No. 1,369,687; Feb. 22; v. 283; p. 691.
- Martindale, Homer D. (See Sheafor, Dee L., assignor.)
- Martinek, Hermann. (See Magerle, E., and Martinek.)
- Martinek, Stanley A., Amarillo, Tex. Priming-cup. No. 1,373,625; Apr. 5; v. 285; p. 47.
- Martinelli, Henry C. (See Goodrich, E. H., and Martinelli.)
- Martinet, Edward D., Los Angeles, Calif. Composition for wall-board. No. 1,371,505; Mar. 15; v. 284; p. 444.
- Martini, Frank. (See Mazzi, A., and Martini.)
- Martini, Rudolph, assignor to Kahn Mirror Plate Company, St. Louis, Mo. Mirror-holder. No. 1,395,855; Nov. 1.
- Martinka, Elizi K. (See Martinka, Jahn K. and E. K.)
- Martinka, Jahn K. and E. K., assignors of one-third to M. Tomecek, New York, N. Y. Egg-tester. No. 1,400,966; Dec. 20.
- Martino, James, White Plains, N. Y. Adjustable flush-valve-seat-cutting tool. No. 1,388,585; Aug. 23; v. 289; p. 700.
- Martino, Peter, Providence, R. I. Firearm. No. 1,396,969; Nov. 15.
- Martinson, Emil E. (See Grinolds, F. A., and Martinson.)
- Martinson, William, assignor of one-half to H. P. Lundskow, Kenosha, Wis. Driving-axle mechanism for road-wheels of motor-vehicles. No. 1,367,616; Feb. 8; v. 283; p. 203.
- Martz, Randolph N., Frederick, Md. Attachment for carburetors of automobile explosion-engines. No. 1,368,182; Feb. 8; v. 283; p. 311.
- Martz, Randolph N., Frederick, Md. Combined steering and drive wheel for automobiles. No. 1,377,905; May 10; v. 286; p. 349.
- Maruda, Mark S., Chicago, Ill. Device for heating and cooling mattresses. No. 1,392,268; Sept. 27; v. 290; p. 774.
- Maruna, Michael J. (See Edell, Joseph W., assignor.)
- Maruny, Juan B. P. (See Maruny, Santiago P. and J. B. P.)
- Maruny, Santiago P. and J. B. P., Barcelona, Spain. Package for containers of pharmaceutical products and the like. No. 1,381,487; June 14; v. 287; p. 272.
- Marvel, Edward W., Philadelphia, Pa. Changeable-combination key-lock. No. 1,374,310; Apr. 12; v. 285; p. 221.
- Marvel Manufacturing Co. (See Wicks, John V., assignor.)
- Marvin, Frederick B., Port Jarvis, N. Y. Rotary explosive-engine. No. 1,366,919; Feb. 1; v. 283; p. 8.
- Marvin, Henry S., San Diego, Calif. Range. No. 1,365,597; Jan. 11; v. 282; p. 343.
- Marvin, Sylvester S., Bryn Mawr, and W. Munz, Philadelphia, assignors to Pennsylvania Chocolate Company, Pittsburgh, Pa. Candy and chocolate machine. No. 1,385,462; July 26; v. 288; p. 662.
- Marvin, W. B., Manufacturing Company, The. (See Cook, A. F., and Reed, assignors.)
- Marwedel, Charles A. (See Malm, A. H., and Marwedel.)
- Marx, Charles H., Chicago, Ill. Fretting device for stringed musical instruments. No. 1,371,506; Mar. 15; v. 284; p. 444.
- Marx, George G., Jackson, Mich. Automatic hood-clamp. No. 1,385,568; July 26; v. 288; p. 684.
- Marx, Gustave C., assignor to Diehl Manufacturing Co., Elizabeth, N. J. Sewing-machine motor. No. 1,369,452; Feb. 22; v. 283; p. 645.
- Marx & Haas Clothing Co. (See Weinberger, Benjamin, assignor.)
- Marx, Richard, Philadelphia, Pa. Furnace. No. 1,399,638; Dec. 6.
- Marx, Roland G., Palo Alto, Calif. Liquid-fuel burner. No. 1,378,480; May 17; v. 286; p. 510.
- Marx, Wilhelm E., Berlin-Spandau, Germany. Change-speed gear. No. 1,399,139; Dec. 6.
- Marx, William F., Emporia, Kans. Concrete structure and making the same. No. 1,386,417; Aug. 2; v. 289; p. 89.
- Marye, Clifford P., Chicago, Ill. Method of and means for cutting screw-threads. No. 1,382,662; June 28; v. 287; p. 609.
- Marye, Clifford P., Chicago, Ill., assignor to Marye Safety Nut Corporation. Making bolt-nuts. No. 1,390,631; Sept. 13; v. 290; p. 308.
- Marye Safety Nut Corporation. (See Marye, Clifford P., assignor.)
- Maryland, Jacob V., Virginia, Minn. Snowplow. No. 1,396,377; Nov. 8.
- Maryland Toy Manufacturing Company. (See Dorsk, Frank L., assignor.)
- Marzak, Frank, assignor of one-half to A. Samokiszczuk, Brooklyn, N. Y. Folding chair. No. 1,374,213; Apr. 12; v. 285; p. 202.
- Marzak, Frank, and S. Dusek, College Point, N. Y. Aeroplane landing-wheel. No. 1,365,181; Jan. 11; v. 282; p. 262.
- Marzoli, Emile, Renens, Switzerland. Reinforced-concrete pole. No. 1,372,362; Mar. 22; v. 284; p. 664.
- Marzyck, Herman G., Jacksonville, Fla. Method of and apparatus for removing threaded members. No. 1,380,071; May 31; v. 286; p. 959.
- Masaitis, Charles A., assignor of one-fourth to J. C. Sinkiewicz, Lincoln, N. H. Safety-pocket. No. 1,370,032; Mar. 1; v. 284; p. 52.
- Maschek, Louis, and J. A. Niblo, Kansas City, Mo. Brake mechanism. No. 1,383,325; July 5; v. 288; p. 14.
- Maschinenfabrik Fabr A.-G. (See Fahr, Johann G., assignor.)
- Maschinenfabrik Worzeldorf H. A. Paulus & Franck. (See Edell, Max, assignor.)
- Mascl, Armando, Genoa, Italy. Boiler-grate. No. 1,379,272; May 24; v. 286; p. 734.
- Mase, Roscoe P., Wilkinsburg, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Gas-purifying composition and manufacturing same. No. 1,396,586; Nov. 8.
- Masek, John F., deceased; K. Masek, administratrix, assignor to J. Holoubek, New York, N. Y. Collapsible trap. No. 1,383,992; July 5; v. 288; p. 152.
- Masek, Karolina, administratrix. (See Masek, John F.)
- Masel, Isaac, Philadelphia, Pa. Tooth, crown, bridge, and the like. No. 1,372,080; Mar. 22; v. 284; p. 610.
- Maserang, John E., Belleville, Ill. Mail-box signal and latch. No. 1,366,323; Jan. 18; v. 282; p. 524.
- Mashek, Frank, Chicago, Ill. Brief-case. No. 1,385,384; July 26; v. 288; p. 646.
- Maskrey, Alfred E., Canton, assignor, by mesne assignments, of one-half to K. Umstead, Salem, Ohio. Metal band. No. 1,389,208; Aug. 30; v. 289; p. 878.
- Maskrey, Arthur J., Canton, Ohio. Roll-scraper. No. 1,387,896; Aug. 16; v. 289; p. 508.
- Masland, Walter E. (See Sparre, F., and Masland.)
- Mason, Albert H., Gauley Bridge, W. Va. Nut-lock. No. 1,366,817; Jan. 25; v. 282; p. 667.
- Mason, Archibald O., Highland Park, Ill. Reliner. No. 1,382,844; June 28; v. 287; p. 643.
- Mason, Carl T., East Orange, N. J., and W. J. Hart, Mt. Vernon, N. Y., assignors to Splitdorf Electrical Company, Newark, N. J. Ignition system. No. 1,400,561; Dec. 20.
- Mason, Charles T., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Interrupter for ignition devices. No. 1,387,796; Aug. 16; v. 289; p. 489.
- Mason, Charles T., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition apparatus for internal-combustion engines. No. 1,390,574; Sept. 13; v. 290; p. 295.
- Mason, Earl W., Los Angeles, and C. D. Miller, San Diego, Calif. Road-map. No. 1,395,508; Nov. 1.
- Mason, Earl W., and C. D. Miller, Los Angeles, Calif. Road-map. No. 1,395,509; Nov. 1.
- Mason, Edwin C., Madison, Wis. Furnace attachment. No. 1,394,634; Oct. 25.
- Mason, Frederick W., Toronto, Ontario, Canada. Grease and oil separator. No. 1,377,906; May 10; v. 286; p. 349.
- Mason, George L. (See Montgomery, G. M., and Mason.)
- Mason, Hal M., Independence, Kans. Automobile gasoline-lock. No. 1,388,280; Aug. 23; v. 289; p. 640.
- Mason, Henry W., New Bedford, Mass. Pressure-graduating device for talking-machine needles. No. 1,371,635; Mar. 15; v. 284; p. 468.
- Mason, James B., Jr., Nashville, Tenn. Automobile bumper. No. 1,367,411; Feb. 1; v. 283; p. 105.
- Mason, Julius H., Duncan Falls, Ohio, assignor to C. C. Hartzell, Huntington, W. Va. Sectional coal-auger nut. (Reissue.) No. 15,112; May 24; v. 286; p. 797.
- Mason, Mayor. (See Mason, Robert E.)



*Alphabetical list of patentees—Continued.*

- Mason, Robert E., Detroit, Mich., (Now by judicial change of name Mayor Mason.) Shoulder and body brace. No. 1,386,067; Aug. 2; v. 289; p. 21.
- Mason, William A., Boston, Mass. Bench for handling oil-burners. No. 1,395,856; Nov. 1.
- Mason, William C., Albany, N. Y. Traction-plate. No. 1,380,574; June 7; v. 287; p. 47.
- Mason, William C., Albany, N. Y. Talking-machine. No. 1,382,373; June 21; v. 287; p. 499.
- Mason, William C., New York, N. Y. Camera attachment. No. 1,382,437; June 21; v. 287; p. 512.
- Mason, William G., assignor to John W. Ladd Company, Detroit, Mich. Bottle or can washing machine. No. 1,400,894; Dec. 20.
- Mason, William H., Haverford, Pa. Apparatus for and process of constructing and launching concrete ships. No. 1,383,653; July 5; v. 288; p. 82.
- Mason, William H., Leesburg, Ohio. Fence-gripping device. No. 1,393,807; Oct. 18.
- Mason, William K., Cambridge, Mass. Heater for garages, &c. No. 1,370,471; Mar. 1; v. 284; p. 136.
- Mason, William L., Holyoke, Mass. Lathe-dog. No. 1,380,822; June 7; v. 287; p. 96.
- Masse, Thomas J., Edmonton, Alberta, Canada. Indicator for spring-motors. No. 1,366,537; Jan. 25; v. 282; p. 611.
- Masser, Jesse R., assignor to Turbine Auto Washer Company, Three Rivers, Mich. Washing and scrubbing brush. No. 1,375,102; Apr. 19; v. 285; p. 437.
- Massey Concrete Products Corporation. (See Gruenfeld, J. J. Jr., and Kircher, assignors.)
- Massey Concrete Products Corporation. (See Kircher, F., and Gruenfeld, assignors.)
- Massey-Harris Harvester Company. (See Farrall, G. A., and Maul, assignors.)
- Massey-Harris Harvester Company. (See Maul, Christian, assignor.)
- Massey, John R., New Brunswick, N. J., assignor, by mesne assignments, to Vitrocell Company, Columbus, Ohio. Coating-machine. No. 1,390,367; Sept. 13; v. 290; p. 253.
- Massie, Arnold C., New York, N. Y. Bottle-capping device. No. 1,386,131; Aug. 2; v. 289; p. 34.
- Massillon-Cleveland-Akron Sign Company. (See Turner, Charles W., assignor.)
- Massillon Steel Castings Company, The. (See Anthony, A. H., and Nordfeldt, assignors.)
- Masson, Henry J., Jr. (See Gerard, Julian M., and Masson.)
- Masson, James M., Duluth, Minn. Method of and bath for retting fibrous straw. No. 1,374,941; Apr. 19; v. 285; p. 405.
- Mastel, Peter A., assignor of one-half to Barrett & Barrett, St. Paul, Minn., a corporation. Wood-splicing tool. No. 1,367,883; Feb. 8; v. 283; p. 255.
- Masten, G. H., Co. (See Bailey, Anna D., assignor.)
- Mastenbrook, Henry J., Lakewood, and C. C. Lauritsen, assignor to The Ohio Blower Company, Cleveland, Ohio. Tilting or gravity trap. No. 1,389,065; Aug. 30; v. 289; p. 850.
- Master, Shavuksha D., Bombay, India. Cushion-tire. No. 1,367,824; Feb. 8; v. 283; p. 243.
- Master, Shavuksha D., Bombay, India. Wave-motor. No. 1,385,879; July 26; v. 288; p. 747.
- Master, Shavuksha D., Bombay, India. Rotary engine. No. 1,385,880; July 26; v. 288; p. 747.
- Master, Shavuksha D., Bombay, India. Trolley-wheel. No. 1,385,881; July 26; v. 288; p. 747.
- Master, Shavuksha D., Bombay, India. Tire. No. 1,385,882; July 26; v. 288; p. 747.
- Masterman, Edward A., Stirling, Scotland. Mooring device for lighter-than-air aircraft. No. 1,373,343; Mar. 29; v. 284; p. 898.
- Masters, Fred, Ithaca, N. Y. Renewing means for valve structures. No. 1,386,888; Aug. 9; v. 289; p. 256.
- Masters, John H., assignor to The Valle-Kimes Company, Dayton, Ohio. Tank-base casting. No. 1,366,538; Jan. 25; v. 282; p. 611.
- Masters Manufacturing Company. (See Colstad, Charles N., assignor.)
- Masterston Brothers *et al.* (See Poole, John H., assignor.)
- Mastin, Charles I. E., Midland Park, N. J. Packing and making same. No. 1,372,529; Mar. 22; v. 284; p. 696.
- Mastrangel, Louis. (See Hartford, E. V., and Mastrangel.)
- Mastrangel, Louis, Hoboken, N. J., assignor to Edward V. Hartford, New York, N. Y. Starting device. No. 1,364,851; Jan. 4; v. 282; p. 154.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Trailer connection. No. 1,380,490; June 7; v. 287; p. 32.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Drive for motor-vehicles. No. 1,392,517; Oct. 4.
- Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Cooling system for motor-vehicles. No. 1,400,562; Dec. 20.
- Masury, Alfred F., and A. H. Leipert, assignors to International Motor Company, New York, N. Y. Yielding support for brake-rods. No. 1,385,463; July 26; v. 288; p. 662.
- Masury, Alfred F., and A. H. Leipert, New York, N. Y. Cushioned connection for vehicle construction. No. 1,400,563; Dec. 20.
- Maszczyk, Alexander, Milwaukee, Wis. Operating means for hinged tools. No. 1,395,758; Nov. 1.
- Matchett, George H., Lakewood, Ohio. Vending-machine. No. 1,385,087; July 19; v. 288; p. 510.
- Matchette, Frank J., Milwaukee, Wis., assignor to The Servidor Company, Wilmington, Del. No. 1,391,133; Sept. 20; v. 290; p. 471.
- Matchette, Frank J., Milwaukee, Wis., assignor to The Servidor Company, Wilmington, Del. Lock. No. 1,393,149; Oct. 11.
- Mateer, Jesse E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulating-coil and making same. No. 1,389,149; Aug. 30; v. 289; p. 867.
- Mateer, Jesse E., and C. T. Allcutt, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Testing device. No. 1,401,627; Dec. 27.
- Matheny, Charles A., Kingston, Tenn. Land-drag. No. 1,379,033; May 24; v. 286; p. 689.
- Matheny, Thurston, The Plains, Ohio, assignor of one-half to O. F. Sarson and C. L. Orr. Wrench. No. 1,381,128; June 14; v. 287; p. 207.
- Mather, Carl H. (See Hostler, E. D., Hamiel, and Mather.)
- Mather, George E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Diaphragm. No. 1,386,722; Aug. 9; v. 289; p. 222.
- Mather, George E., Morsemere, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Folding-door structure. No. 1,396,769; Nov. 15.
- Mather, Gurdon C., Detroit, Mich. Double-tire carrier and lock. No. 1,381,321; June 14; v. 287; p. 242.
- Mather, Joseph C. (See Neumann, M. J., and Mather.)
- Mather, Marion, Olean, N. Y. Card-exhibitor. No. 1,389,592; Sept. 6; v. 290; p. 6.
- Mather, Norman C. (See Dyer, John, assignor.)
- Mathers, Frank C., Bloomington, Ind., assignor to American Smelting & Refining Co. Electrolytic refining of tin. No. 1,397,222; Nov. 15.
- Mathes, John A., San Diego, Calif. Educational appliance. No. 1,375,808; Apr. 19; v. 285; p. 477.
- Mathes, Kirke B., Batavia, N. Y. Footwear. No. 1,365,261; Jan. 11; v. 282; p. 278.
- Matheson, Howard W., Shawenegan Falls, Quebec, Canada. Oxidizing mercury. No. 1,379,465; May 24; v. 286; p. 770.
- Matheson, Howard W., Shawenegan Falls, Quebec, Canada. Electrolytic cell. No. 1,379,466; May 24; v. 286; p. 770.
- Matheson, Howard W., Shawenegan Falls, Quebec, Canada. Manufacturing acetaldehyde. No. 1,384,842; July 19; v. 288; p. 459.
- Matheson, Howard W., and F. T. Kaelin, Shawenegan Falls, Quebec, Canada. Electrolytic cell. No. 1,379,467; May 24; v. 286; p. 770.
- Matheson, James H., Reading, Pa. Apparatus for making lapwelded tubes. No. 1,367,413; Feb. 1; v. 283; p. 105.
- Matheson, James H., Reading, Pa. Manufacture of lapwelded tubes. No. 1,367,412; Feb. 1; v. 283; p. 105.
- Chicago, Ill. Spring-wheel. No. 1,367,917; Feb. 8; v. 283; p. 261.
- Mathews, Annie, *et al.*, executors and trustees. (See Mathews, Thomas.)
- Mathews, Annie, *et al.*, administrators. (See Mathews, Thomas.)
- Mathews, Fred, Chicago, Ill. Latch for automobile-hoods. No. 1,368,276; Feb. 15; v. 283; p. 378.
- Mathews, Fred, Chicago, Ill. Carline. No. 1,396,703; Nov. 8.
- Mathews, Fred, Chicago, Ill. Latch for hoods of automobiles. No. 1,396,704; Nov. 8.
- Mathews, Morris, St. Joseph, Mo. Rug-cleaning machine. No. 1,370,335; Mar. 1; v. 284; p. 110.
- Mathews, Samuel, McCurtain, Okla. Device for cooling twyer-irons. No. 1,365,333; Jan. 11; v. 282; p. 232.
- Mathews, Thomas, deceased, Leicester, England; Annie Mathews and Harry Buckingham executors and trustees. Educational appliance. No. 1,364,773; Jan. 4; v. 282; p. 141.
- Mathews, Thomas, deceased, by A. Mathews, Leicester, and H. Buckingham, London, England, administrators. Paper and like toy. No. 1,383,836; July 5; v. 288; p. 120.
- Mathews, Walter D., Marlette, Mich. Piston-ring. No. 1,391,335; Sept. 20; v. 290; p. 512.
- Mathewson, Ernest T., Buffalo, N. Y. Bumper. No. 1,397,223; Nov. 15.
- Mathewson, Ernest T., Buffalo, N. Y. Bumper. No. 1,397,224; Nov. 15.
- Mathiesen, Marius, assignor of one-half to F. E. Shortess, Chicago, Ill. Spring-wheel. No. 1,367,917; Feb. 8; v. 283; p. 261.
- Mathieson Alkali Works, The. (See MacMahon, James H., assignor.)
- Mathieu, Charles, New York, N. Y. Balancing toy. No. 1,384,476; July 12; v. 288; p. 301.
- Mathieu, Eugène, Neuilly-sur-Seine, France. Hydraulic valve. No. 1,385,019; July 19; v. 288; p. 496.
- Mathieu, Fred L., South Bend, Ind. Massage-brush. No. 1,394,206; Oct. 18.
- Mathis, Henry, Virginia, Minn. Chain-repair tool. No. 1,398,876; Nov. 29.



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- Mathis, Henry H., New Haven, Conn. Educational apparatus. No. 1,370,826; Mar. 8; v. 284; p. 249.
- Mathis, Ralph E., St. Louis, Mo. Wedge-lock. No. 1,367,617; Feb. 8; v. 283; p. 203.
- Mathisen, Hjalmar. (See Bastian, C. L., and Mathisen.)
- Mathot, Rodolphe E., Brussels, Belgium. Fuel-supply regulator for internal-combustion engines. No. 1,373,666; Apr. 5; v. 285; p. 55.
- Mathy, Maurice, Liège, Belgium. Glass-pot furnace. No. 1,369,453; Feb. 22; v. 283; p. 645.
- Mathy, Maurice, Liège, Belgium. Vise for holding glasses, &c. No. 1,369,454; Feb. 22; v. 283; p. 645.
- Mathy, Maurice, Liège, Belgium. Heat economizer or regenerator. No. 1,370,984; Mar. 8; v. 284; p. 279.
- Mathy, Maurice, Liège, Belgium. Apparatus for cooling materials. No. 1,385,636; July 26; v. 288; p. 698.
- Mathy, Maurice, Flernalle-Graude, Belgium. Apparatus for heating by combustion without flame. No. 1,388,355; Aug. 23; v. 289; p. 656.
- Mathy, Maurice, Liège, Belgium. Cooker. No. 1,388,356; Aug. 23; v. 289; p. 636.
- Mathy, Maurice, Liège, Belgium. Surface-combustion gas-burner. No. 1,388,357; Aug. 23; v. 289; p. 650.
- Mathy, Maurice, Liège, Belgium. Crucible-furnace. No. 1,400,759; Dec. 20.
- Mathy, Maurice, Liège, Belgium. Coke-oven. No. 1,392,257; Sept. 27; v. 290; p. 772.
- Matievich, Joseph, Washington Park, Ill. Combination-cabinet. No. 1,391,487; Sept. 20; v. 290; p. 543.
- Matlick, Hobson R., Cumberland, Md. Automatic door-closing device. No. 1,367,414; Feb. 1; v. 283; p. 106.
- Matlock, Leonard, Ralph, Ark. Belt guide and guard. No. 1,366,271; Jan. 18; v. 282; p. 515.
- Matot, Duffy A., Chicago, Ill. Beverage-cooler. No. 1,366,197; Jan. 18; v. 282; p. 499.
- Matrazzo, Anthony, Baltimore, Md. Dough-mixing machine. No. 1,368,183; Feb. 8; v. 283; p. 311.
- Matsler, Columbus U., Plainview, Tex. Combination-tool. No. 1,382,109; June 21; v. 287; p. 449.
- Matson, Edgar C., Handley, assignor to J. A. B. Holt, Pratt, W. Va. Sewing-machine. No. 1,379,468; May 24; v. 286; p. 770.
- Matson, Edgar C., Handley, assignor of one-half to J. A. B. Holt, Pratt, W. Va. Thread holder and tensioner. No. 1,398,877; Nov. 29.
- Matson, Frederick, Redlands, Calif. Square. No. 1,394,323; Oct. 18.
- Matsugaki, Shinich, Tokyo, Japan. Brush. No. 1,387,063; Aug. 9; v. 289; p. 291.
- Matsumoto, Ken, and K. Takagi, Tokyo, Japan. Fountain-pen. No. 1,380,231; May 31; v. 286; p. 988.
- Matsumura, Yoshio, Tokyo, Japan. Diving apparatus. No. 1,375,715; Apr. 26; v. 285; p. 586.
- Matsuo, Kenji, Tokyo, Japan. Glass roll. No. 1,394,684; Oct. 25.
- Matsuo, Shoji, Saga Prefecture, Japan. Manufacturing silicated cement. No. 1,367,984; Feb. 8; v. 283; p. 273.
- Matsuoka, Chokichi, Los Angeles, Calif. Making agar-agar. No. 1,399,359; Dec. 6.
- Matsuoka, Tokichi. (See Higuchi, Monnosuke, assignor.)
- Matsushima, Tadao, Kanagawaken, Japan. Apparatus for electrolyzing salt solutions. No. 1,368,955; Feb. 15; v. 283; p. 509.
- Matteoli, William M. (See De Martin, C. L., and Matteoli.)
- Matteoli, William M., Connerville, Ind., assignor to Indiana Lamp Company. Means for securing lamp-lens closures. No. 1,389,958; Sept. 6; v. 290; p. 81.
- Mattern, George W., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Golf-club. No. 1,383,654; July 5; v. 288; p. 82.
- Matterson, William C. M., Rochdale, England. Gear-cutting machine. No. 1,373,344; Mar. 29; v. 284; p. 899.
- Mattersade, John J., Sioux City, Iowa. Hitching and coupling means for tractor-plows. No. 1,369,980; Mar. 1; v. 284; p. 43.
- Matteson, Walter C., Stockton, Calif. Body construction for tractors. No. 1,379,710; May 31; v. 286; p. 891.
- Matthes, Samuel S. (See Robbins, E. P., and Matthes.)
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Reeling device. No. 1,366,198; Jan. 18; v. 282; p. 499.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Reeling device. No. 1,366,199; Jan. 18; v. 282; p. 500.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Wire-support. No. 1,367,618; Feb. 8; v. 283; p. 203.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Wire-clamp. No. 1,367,619; Feb. 8; v. 283; p. 203.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor clamp and support. No. 1,373,751; Apr. 5; v. 285; p. 71.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-wire clamp. No. 1,390,369; Sept. 13; v. 290; p. 254.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor clamp. No. 1,399,140; Dec. 6.
- Matthews, Bessie A., et al., executrices. (See Taylor, James L.)
- Matthews, Charles K., Portland, Oreg. Trunk-chain. No. 1,380,727; June 7; v. 287; p. 77.
- Matthews, Clarence E., et al. (See Johnson, Bruce P., assignor.)
- Matthews, Claude L., and W. A. Heinrich, assignors to W. N. Matthews and Brother, Inc., St. Louis, Mo. Safety-fuse switch-box. No. 1,398,335; Nov. 29.
- Matthews, Edgar M., Jamaica, N. Y., assignor to American Telephone and Telegraph Company. Cable-hanger. No. 1,369,828; Mar. 1; v. 284; p. 14.
- Matthews, Edwin S., New York, N. Y. Indicating and recording liquid-fuel-supply-tank apparatus. No. 1,400,895; Dec. 20.
- Matthews, Edwin A., Portland, Oreg. Automobile-locking means. No. 1,369,901; Mar. 1; v. 284; p. 28.
- Matthews Engineering Company. (See Cosgray, Mark C., assignor.)
- Matthews Engineering Company, The. (See Müller, Ferdinand C. H., assignor.)
- Matthews, Frank E., assignor to The Connecticut Tool and Engineering Company, Bridgeport, Conn. Pulley and sheath therefor. No. 1,392,957; Oct. 11.
- Matthews, Fred E., Leonia, N. J. Fluid-pressure apparatus. No. 1,384,477; July 12; v. 288; p. 302.
- Matthews, George S., assignor of one-half to A. Doehler, Kansas City, Mo. Suspension air-cushion. No. 1,401,420; Dec. 27.
- Matthews, Harry, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Winding for dynamo-electric machines. No. 1,374,511; Apr. 12; v. 285; p. 261.
- Matthews, Herbert. (See Seator, Robert J., assignor.)
- Matthews, James H., & Company. (See Thompson, George S., assignor.)
- Matthews, Joseph L., Highland Park, N. J., assignor to International Motor Company, New York, N. Y. Sandblast nozzle. No. 1,393,562; Oct. 11.
- Matthews, Joseph L., Highland Park, N. J., assignor to International Motor Company, New York, N. Y. Gear-testing machine. No. 1,394,324; Oct. 18.
- Matthews, Newton W., Fullerton, assignor of one-fourth to K. B. Norswing, Orange county, Calif., and one-fourth to A. Johnson, Goodhue county, Minn. Wire-embedder. No. 1,366,674; Jan. 25; v. 282; p. 638.
- Matthews, Peter S., et al. (See Hotchkiss, Raymond M., assignor.)
- Matthews, Phillip E., Plainfield, N. J. Automatic pawl-throw for magnetos or the like. No. 1,376,024; Apr. 26; v. 285; p. 645.
- Matthews, Ralph R. (See Crosby, P. A., Matthews, and High.)
- Matthews, Richard B., East Grinstead, England. Manufacture of books. No. 1,391,199; Sept. 20; v. 290; p. 484.
- Matthews, Thomas A., Nashville, Tenn. Delivery-cabinet. No. 1,395,857; Nov. 1.
- Matthews, Thomas H., and H. W. Lee, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Clutch for turbine-driven geared propeller-shafts. No. 1,380,823; June 7; v. 287; p. 96.
- Matthews, W. N., and Brother. (See Heinrich, Walter A., assignor.)
- Matthews, W. N., and Brother. (See Matthews, C. L., and Heinrich, assignors.)
- Matthews, William J., Chicago, Ill. Ceiling construction for reinforced-concrete buildings. No. 1,365,054; Jan. 11; v. 282; p. 238.
- Mattie, Theodore L. (See Arata, B. A., and Mattie.)
- Mattivi, Vigilio, assignor of one-third to J. Brunelli and one-third to G. Dick, Walsenburg, Colo. Flying-machine. No. 1,389,959; Sept. 6; v. 290; p. 81.
- Mattix, Jacob M., Louise, Miss. Timber-roller-supporting device for cars. No. 1,384,770; July 19; v. 288; p. 444.
- Mattman, Carl C. (See Barker, Thomas C., assignor.)
- Mattman, Emil, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. End bell. No. 1,392,073; Sept. 27; v. 290; p. 735.
- Matton, August. (See Hirth, L. G., and Matton.)
- Mattox, Gurnie, Portland, Oreg. Dimmer for headlights. No. 1,371,179; Mar. 8; v. 284; p. 315.
- Mattson, Andrew, Bellingham, Wash. Seine. No. 1,386,889; Aug. 9; v. 289; p. 256.
- Mattson, Franklin A., Rochester, Minn. Four-wheel-drive tractor. No. 1,377,497; May 10; v. 286; p. 271.
- Mattson, Ivar, Fairfield, Iowa. Animal-feeding device. No. 1,398,336; Nov. 29.
- Mattson, Julius, Chicago, Ill. Spindle-tightener. No. 1,401,270; Dec. 27.
- Mattson, Leroy. (See Luce, Louis L., assignor.)
- Mattsson, Oskar G. M. (See Hesselman, B. O. W., and Mattsson.)
- Mattucci, R. (See Mazelli, Raymond, assignor.)
- Mattullath, Alice K., Inwood, assignor to American Balsa Corporation, New York, N. Y. Dirigible airship. No. 1,376,629; May 3; v. 286; p. 347.
- Matty, Joseph J., Glen Jean, W. Va. Trolley-pole. No. 1,380,491; June 7; v. 287; p. 32.
- Maturo, Pasquale, New Haven, Conn. Automatic latch. No. 1,394,635; Oct. 25.
- Matyk, William A., Cedar Rapids, Iowa. Cap. No. 1,386,890; Aug. 9; v. 289; p. 256.



*Alphabetical list of patentees—Continued.*

- Matysek, Antone, Baltimore, Md. Exercising device. No. 1,366,200; Jan. 18; v. 282; p. 500.
- Matz, Fred W. (See Carr, J. V., and Matz.)
- Mauclair, Louis, A. Garbarini, and G. Gautier, Paris, France. Electric-arc lamp with rotary arc. No. 1,390,456; Sept. 13; v. 290; p. 271.
- Mauger, Nestor, assignor to Société Auxiliaire d'Exploitations Industrielles, Paris, France. Motor-tractor with propulsive levers. No. 1,376,717; May 3; v. 286; p. 63.
- Maughlin, Harry P., Columbus, Ohio. Pattern letter and numeral. No. 1,379,641; May 31; v. 286; p. 878.
- Maul, Christian. (See Farrall, G. A., and Maul.)
- Maul, Christian, assignor to Massey-Harris Harvester Company, Inc., Batavia, N. Y. Harvester. No. 1,389,769; Sept. 6; v. 290; p. 42.
- Maul, Henry C., assignor to The Michigan Stove Company, Detroit, Mich. Valve for ovens. No. 1,381,129; June 14; v. 287; p. 207.
- Maule, Harvey G., Seattle, assignor of one-half to R. A. Pearce, King county, Wash. Safety fire-stop valve. No. 1,373,902; Apr. 5; v. 285; p. 102.
- Maule, Harvey G., Seattle, assignor of one-half to R. A. Pearce, King county, Wash. Valve. No. 1,385,183; July 19; v. 288; p. 530.
- Maulsby, Gilbert O., Birmingham, Ala. Peanut harvester and shocker. No. 1,381,211; June 14; v. 287; p. 222.
- Mauders, Charles, Chilco, British Columbia, Canada. Device for supporting washers while upsetting the co-operative bolts or rivets. No. 1,398,368; Nov. 29.
- Maurer, Anton, and J. J. Brosioit, Salt Lake City, Utah. Spare-tire holder. No. 1,393,563; Oct. 11.
- Maurer, O., Company, The. (See Schroedter, Edmund, assignor.)
- Maurer, Oscar, Richmond Hill, N. Y. Sunshade. No. 1,370,546; Mar. 8; v. 284; p. 195.
- Maurer, Oscar V., East Cleveland, Ohio. Incandescent lamp and making the same. No. 1,398,032; Nov. 22.
- Maurer, Oscar V., East Cleveland, Ohio. Making incandescent lamps. No. 1,398,033; Nov. 22.
- Maurice, Edward, Melbourne, Victoria, Australia. Combined cycle stand and lock. No. 1,385,020; July 19; v. 288; p. 496.
- Maussner, Frederick, Collingswood, N. J., assignor to Henry Wilhelm Company, Pittsburgh, Pa. Filling for mattresses. No. 1,400,302; Dec. 13.
- Mauzey, George W., near Edgerton, Mo. Well-plug. No. 1,379,119; May 24; v. 286; p. 705.
- Mavor & Coulson Limited. (See Moore, Matthew S., assignor.)
- Mavus, Jacob E. (See Torres, Clemente, assignor.)
- Maw, Thomas F. (See Barr, M., and Maw.)
- Mawson, Benjamin, Liverpool, England, and Alfred Kennedy, Litherland, near Liverpool, England. Ship's port-light and dead-light. No. 1,364,293; Jan. 4; v. 282; p. 49.
- Max Ams Machine Company, The. (See Brenzinger, Julius, assignor.)
- Maxim, Hudson, Hopatcong borough, N. J. Method and mechanism for exploding submarine mines. No. 1,382,374; June 21; v. 287; p. 500.
- Maxim, Hudson, Hopatcong borough, N. J. Magnetic firing mechanism for submarine mines. No. 1,389,566; Aug. 30; v. 289; p. 950.
- Maxim Manufacturing Company. (See Smith, Charles F., assignor.)
- Maxon, Glenway, Jr., Milwaukee, Wis. Strike-off for road-finishing machines. No. 1,386,348; Aug. 2; v. 289; p. 76.
- Maxson, Henry K. C., New York, N. Y. Cleaning-tool. No. 1,373,141; Mar. 29; v. 284; p. 858.
- Maxwell, Bert E., Wichita, Kans. Skiing-machine. No. 1,388,358; Aug. 23; v. 289; p. 656.
- Maxwell, Charlotte A., et al. (See Van Vleet, Charles W., assignor.)
- Maxwell, Clarence R., Los Angeles, Calif. Electric metallic window-curtain. No. 1,374,670; Apr. 12; v. 285; p. 291.
- Maxwell, Earl C., Brooklyn, N. Y. Tank for sprinkler systems. No. 1,370,661; Mar. 8; v. 284; p. 217.
- Maxwell, George H. (See Hogue, Oliver D., assignor.)
- Maxwell, James G. (See Fidler, Francis, and Maxwell.)
- Maxwell, James G., Cleveland, Ohio. Means for regulating the temperature of rolls. No. 1,366,581; Jan. 25; v. 282; p. 620.
- Maxwell, James G., Cleveland, Ohio. Means for regulating the temperature of rolls. (Reissue.) No. 15,227; Nov. 15.
- Maxwell, James V., and J. P. Seiser, White Plains, N. Y.; said Seiser assignor to said Maxwell. Trussed hollow spar. No. 1,400,620; Dec. 20.
- Maxwell, John S., assignor to Starr Piano Company, Richmond, Ind. Musical instrument. No. 1,371,636; Mar. 15; v. 284; p. 468.
- Maxwell, Maxwell C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Combined hoist and hopper. No. 1,395,858; Nov. 1.
- Maxwell-Muller, Percy, Weybridge, England, assignor to Vickers Limited, Westminster, London, England. Sewing-machine. No. 1,364,571; Jan. 4; v. 282; p. 101.
- Maxwell, Roy J., Butler, Ind. Hog-feeder. No. 1,375,165; Apr. 19; v. 285; p. 449.
- Maxwell, Russel R. (See Ewing, William L., assignor.)
- Maxwell, Samuel E., Avalon, Pa. Garage-heater. No. 1,372,713; Mar. 29; v. 284; p. 772.
- Maxwell, William J., Jr., New York, N. Y. Musical instrument. No. 1,384,843; July 19; v. 288; p. 459.
- May, Adam J. (See Fertig, C. W., and May.)
- May, August, et al. (See Light, Claus H., assignor.)
- May, Charles, New Britain, Conn. Vending-machine. No. 1,375,226; Apr. 19; v. 285; p. 460.
- May, Cyril H., Ironwood, Mich. Keyhole-finder. No. 1,384,622; July 12; v. 288; p. 333.
- May, Ferdinand H. (See Horn, J., May, and Melnor.)
- May, Gertrude T., Washington, D. C. Cigarette-tip and forming same. No. 1,369,041; Feb. 22; v. 283; p. 566.
- May, Lawrence E., Nashville, Tenn. Pump. No. 1,401,094; Dec. 20.
- May, Minnie M., Evansville, Ind. Cooking utensil. No. 1,389,770; Sept. 6; v. 290; p. 42.
- May, Sellers C., Troy, Ala. Peanut-harvester. No. 1,375,258; Apr. 19; v. 285; p. 466.
- May, Theodore W., assignor of one-half to W. F. Buckingham, Chicago, Ill. Self-supporting golf-bag. No. 1,384,078; July 12; v. 288; p. 219.
- May, Victor, assignor to M. Louis, Chicago, Ill. Heel for footwear. No. 1,368,819; Feb. 15; v. 283; p. 483.
- May, Walter J., Mount Vernon, N. Y. Agitating device. No. 1,376,561; May 3; v. 286; p. 34.
- Mayall, William, Toronto, Ontario, Canada. Electric heater. No. 1,381,322; June 14; v. 287; p. 242.
- Mayberry, De Ella B., assignor of one-fourth to J. W. Harrison, Chicago, Ill. Street-indicator for railway-cars. No. 1,382,845; June 28; v. 287; p. 643.
- Mayberry, Edward L., Los Angeles, Calif. System of arch-river floor construction. No. 1,391,748; Sept. 27; v. 290; p. 669.
- Mayberry, Harry A., McLeansboro, Ill. Car-sign exhibitor. No. 1,380,001; May 31; v. 286; p. 945.
- Mayer, Arthur, Richmond Hill, N. Y., assignor to Edward V. Hartford, Inc. Bracket. No. 1,397,105; Nov. 15.
- Mayer, Carl H., Chicago, Ill. Indicator for player-pianos and similar instruments. No. 1,373,752; Apr. 5; v. 285; p. 71.
- Mayer, Frank H., Denver, Colo. Gearing for washing-machines. No. 1,385,464; July 26; v. 288; p. 662.
- Mayer, Frank H., Denver, Colo. Washing-machine. No. 1,385,748; July 26; v. 288; p. 720.
- Mayer, George A., and H. E. Murray, assignors to The Manifold Printing Company, Cleveland, Ohio. Producing multicopy forms or blanks. No. 1,385,569; July 26; v. 288; p. 684.
- Mayer, George W., New York, N. Y. Sharpener for phonograph-needles. No. 1,378,597; May 17; v. 286; p. 533.
- Mayer, Gustav K., W. G. Andrews, and A. V. Coldby, Chicago, Ill. Beverage-making material and producing the same. No. 1,391,557; Sept. 20; v. 290; p. 557.
- Mayer, Heinrich, G. Schlatter, and A. Baltensweiler, assignors to Firm of Adolph Saurer, Arbon, Switzerland. Road-sprinkler. No. 1,376,108; Apr. 26; v. 285; p. 661.
- Mayer, Louis, Kaukauna, Wis. Hammer. No. 1,386,891; Aug. 9; v. 289; p. 256.
- Mayer-Oakes, Joshua, New Haven, Conn. Casting-machine. No. 1,369,455; Feb. 22; v. 283; p. 646.
- Mayer, Oscar G., Chicago, Ill. Apparatus for manufacturing sausages. No. 1,368,407; Feb. 15; v. 283; p. 403.
- Mayer, Ronald D., Tulsa, Okla. Oil-burner. No. 1,369,688; Feb. 22; v. 283; p. 691.
- Mayer, Max. (See Wohl, M. J., and Mayer.)
- Mayer, Rudolph A., Pecan Island, La. Cane-harvesting machine. No. 1,392,258; Sept. 27; v. 290; p. 772.
- Mayer, Waldemar F., Philadelphia, Pa., assignor to Taylor-Wharton Iron and Steel Company, Highbridge, N. J. Rotary pump or motor. No. 1,398,788; Nov. 29.
- Mayer, Walter L., and F. Beagle, assignors to The Victory Advertising Manufacturing Company, Kansas City, Mo. Display device. No. 1,399,783; Dec. 13.
- Mayer, Walter S. (See Lewis, H. G., and Mayer.)
- Mayer, Walter S., assignor to Electric Service Supplies Company, Philadelphia, Pa. Light-focusing mechanism. No. 1,385,697; July 26; v. 288; p. 710.
- Mayer, Walter S., assignor to Electric Service Supplies Company, Philadelphia, Pa. Suspension-clamp. No. 1,385,698; July 26; v. 288; p. 711.
- Mayer, Walter S., assignor to Electric Service Supplies Company, Philadelphia, Pa. Lens-holder. No. 1,385,699; July 26; v. 288; p. 711.
- Mayer, William G., Pittsburgh, Pa. Truck-gate-securing means. No. 1,364,779; Jan. 4; v. 282; p. 141.
- Maves, Thomas, Alma, Mich. Fumigator. No. 1,371,801; Mar. 15; v. 284; p. 500.
- Mayerson, Abi, assignor of one-half to J. S. Conroy, Chicago, Ill. Bomb. No. 1,382,307; June 21; v. 287; p. 487.
- Mayhew, Edna, Great Bend, Kans. Bookstand. No. 1,376,212; Apr. 26; v. 285; p. 681.
- Mayhew, Edward A., assignor to Union Metal Products Company, Chicago, Ill. Car-door. No. 1,374,461; Apr. 12; v. 285; p. 251.
- Mayhew, Edward A., assignor to Union Metal Products Company, Chicago, Ill. Car-door fastener. No. 1,390,306; Sept. 13; v. 290; p. 242.
- Mayhew, Joseph L., Williamstown, Mass., assignor to Mayhew Steel Products Inc., New York, N. Y. Pliers. No. 1,396,863; Nov. 15.



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- Mayhew Steel Products Inc. (See Maynew, Joseph L., assignor.)
- Mayhew, Walter H., Toronto, Ohio. Apparatus for handling sewer-pipe and the like. No. 1,395,588; Nov. 1.
- Mayle, Albert M., Toledo, Ohio. Motion-picture apparatus. No. 1,381,727; June 14; v. 287; p. 319.
- Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Spectacle construction. No. 1,386,068; Aug. 2; v. 289; p. 22.
- Maynard, Albert E., assignor to American Optical Company, Southbridge, Mass. Grinding-machine. No. 1,397,289; Nov. 15.
- Maynard, Armond J., Waterbury, Conn. Submarine grapple. No. 1,374,512; Apr. 12; v. 285; p. 261.
- Maynard, Charles E., Northampton, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Beveling and sealing clamp. No. 1,391,784; Sept. 27; v. 290; p. 675.
- Maynard, Faye S., Ararat, Pa. Clutch control for automobiles. No. 1,390,148; Sept. 6; v. 290; p. 119.
- Mayne, Clifton E., Honolulu, Hawaii. Bank-check. No. 1,368,518; Feb. 15; v. 283; p. 425.
- Mayne, John, Negaunee, assignor of one-sixth to S. R. Elliott, one-sixth to O. D. McClure, Ishpeming, one-sixth to J. H. Rough, one-sixth to W. F. Ware, and one-sixth to G. R. Jackson, Negaunee, Mich. Apparatus for loading cars. No. 1,366,201; Jan. 18; v. 282; p. 500.
- Mayne, Samuel H. C., Winder, Ga. Detachable drawer sets and rollers. No. 1,396,864; Nov. 15.
- Maynes, Emma G. (See Maynes, Hyla F., assignor.)
- Maynes, Emma C. (See Maynes, Hyla F., assignor.) (Reissue.)
- Maynes, Hyla F., assignor of one-half to E. G. Maynes, Gaines, Pa. Amusement apparatus. No. 1,397,009; Nov. 15.
- Maynes, Hyla F., assignor of one-half to E. C. Maynes, Gaines, Pa. Amusement apparatus. (Reissue.) No. 1,524; Dec. 6.
- Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heeling-machine. No. 1,377,263; May 10; v. 286; p. 225.
- Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon shoes. No. 1,399,784; Dec. 13.
- Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail-distributing apparatus. No. 1,399,785; Dec. 13.
- Mayo, William P. (See Mooney, William A., assignor.)
- Mays, Vernice M., Ketchum, Okla. Plow. No. 1,397,841; Nov. 22.
- Maytag Company, The. (See Snow, Clarence A., assignor.)
- Maytag Company, The. (See Snyder, Howard F., assignor.)
- Mazars, Emily W. T., Suffield, Conn. Canning device. No. 1,370,336; Mar. 1; v. 284; p. 110.
- Maze, Le Roy, assignor to S. G. Adams Stamp and Stationery Company, St. Louis, Mo. Impression-seal. No. 1,369,290; Feb. 22; v. 283; p. 613.
- Mazell, Raymond, assignor of one-half to R. Mattucci, Bellaire, Ohio. Rim-breaker. No. 1,370,698; Mar. 8; v. 284; p. 225.
- Maziarz, Joseph E., Buffalo, N. Y. Insect-trap. No. 1,378,048; May 17; v. 286; p. 428.
- Mazurette, Odilon, Alameda, Calif. Safety device for buzz-planers. No. 1,371,921; Mar. 15; v. 284; p. 522.
- Mazuryk, Bartlomiej, Tugaskie, Saskatchewan, Canada. Driving mechanism. No. 1,374,214; Apr. 12; v. 285; p. 202.
- Mazuryk, Bartlomiej, Tugaskie, Saskatchewan, Canada. Harrowing-machine. No. 1,388,359; Aug. 23; v. 289; p. 657.
- Mazzanovich, Anton, Los Angeles, Calif. Combination-clamp. No. 1,367,071; Feb. 1; v. 283; p. 37.
- Mazzacco, James, Gallup, N. Mex. Leveling and measuring instrument. No. 1,383,960; July 5; v. 288; p. 145.
- Mazzi, August, and F. Martini, Vineland, N. J. Device for calibrating transparent tubes. No. 1,394,423; Oct. 18.
- Mazzocco, Leandro, Lynn, Mass. Measuring device. No. 1,369,346; Feb. 22; v. 283; p. 625.
- McAdam, Alfred B., Moose Jaw, Saskatchewan, Canada. Hot-air furnace. No. 1,400,299; Dec. 13.
- McAdam, John V., U. S. Army. Rifle-grenade. No. 1,375,463; Apr. 19; v. 285; p. 506.
- McAdams, Alonzo J., Barker, N. Y. Disk-harrow and analogous machine. No. 1,364,943; Jan. 11; v. 282; p. 217.
- McAdams, Lewis C., Los Angeles, assignor of one-half to J. M. Benedict, Glendale, Calif. Traffic-signaling mechanism. No. 1,394,918; Oct. 25.
- McAdoo, William S., Chicago, Ill. Combination-padlock. No. 1,383,317; July 5; v. 288; p. 12.
- McAlear, James, Chicago, Ill. Vacuum-producing device. No. 1,367,556; Feb. 8; v. 283; p. 191.
- McAlear, John S. (See Boltone, Victor R., assignor.)
- McAllaster, George R., Rochester, N. Y. Bed. No. 1,383,648; July 5; v. 288; p. 80.
- McAllister, Frank E., Minneapolis, Minn. Check-protector. No. 1,401,168; Dec. 27.
- McAllister, George L., Omaha, Nebr. Grain-car door. No. 1,387,059; Aug. 9; v. 289; p. 290.
- McAlvay, Budd D., L. S. Hamer, and G. C. Deakins, Anaheim, Calif. Interlocking casing-reducing nipple. No. 1,367,156; Feb. 1; v. 283; p. 54.
- McArthur, Charles D., Pittsburgh, Pa., assignor to Blaw-Knox Company. Method of and apparatus for tunnel-work. No. 1,380,400; June 7; v. 287; p. 14.
- McArthur, Finley, Cedar Rapids, Iowa. Animal-operated feeding device. No. 1,390,209; Sept. 6; v. 290; p. 130.
- McArthur, George L., Racine, Wis. Hurl sizer and shaker. No. 1,384,475; July 12; v. 288; p. 301.
- McArthur, John O., Milwaukee, Wis. Piston. No. 1,394,204; Oct. 18.
- McAulay, Chester B., San Francisco, and E. C. Hutchinson, Oakland, assignors to Pelton Water Wheel Company, San Francisco, Calif. Fluid-level regulator. No. 1,382,735; June 28; v. 287; p. 623.
- McAuliffe, John W., Pelham, N. Y. Self-stropping double edged safety-razor. No. 1,367,157; Feb. 1; v. 283; p. 55.
- McAuliffe, John W., Pelham, N. Y. Self-stropping safety-razor. No. 1,367,158; Feb. 1; v. 283; p. 55.
- McAuliffe, John W., Pelham, N. Y. Combined razor and stropper. No. 1,367,159; Feb. 1; v. 283; p. 55.
- McAuliffe, John W., Pelham, N. Y. Tobacco-pipe. No. 1,370,602; Mar. 8; v. 284; p. 206.
- McAvoy, Charles F. and D. E., Long Island City, N. Y. Sectional building. No. 1,375,402; Apr. 19; v. 285; p. 494.
- McAvoy, Charles F., Brooklyn, and D. E. McAvoy, New York, N. Y. Portable building or structure. No. 1,397,976; Nov. 22.
- McAvoy, Daniel E. (See McAvoy, Charles F. and D. E.)
- McAvoy Manufacturing Company. (See Nelson, L. C., and Polan, assignors.)
- McBeath, Allan R. (See Carter, Clark E., assignor.)
- McBee Binder Co., The. (See McBee, Charles F., assignor.)
- McBee, Charles F., Athens, Ohio. Paper-binder. No. 1,374,594; Apr. 12; v. 285; p. 277.
- McBee, Charles F., Athens, Ohio, assignor to The McBee Binder Co. Loose-leaf file. No. 1,375,523; Apr. 19; v. 285; p. 517.
- McBratney, Harry T., Tarentum, Pa., assignor to Valley Holding Corporation, Brackenridge, Pa. Annealing-box. No. 1,376,448; May 3; v. 286; p. 14.
- McBrearty, John, Rosemont, Pa. Shoe. No. 1,372,709; Mar. 29; v. 284; p. 771.
- McBride, James P., Seattle, Wash. Bolting-up and plate-tightening machine. No. 1,387,895; Aug. 16; v. 289; p. 608.
- McBride, Jesse E., assignor to Palmer-Bee Company, Detroit, Mich. Chain-driven trolley for conveyors. No. 1,371,316; Mar. 15; v. 284; p. 405.
- McBride, Jesse E., assignor to Palmer-Bee Company, Detroit, Mich. Trolley. No. 1,372,761; Mar. 29; v. 284; p. 782.
- McBride, Jesse E., assignor to Palmer-Bee Company, Detroit, Mich. Chain construction. No. 1,380,916; June 7; v. 287; p. 113.
- McBride, John J., assignor to American Car and Foundry Company, New York, N. Y. Tank-car dome. No. 1,370,754; Mar. 8; v. 284; p. 235.
- McBride, Paul J., et al. (See Cushing, William H., assignor.)
- McBride, William H., assignor of one-half to Zachariah H. Hughes, St. Louis, Mo. Humidifier for internal-combustion engines. No. 1,365,114; Jan. 11; v. 282; p. 250.
- McCaa, David G., Lancaster, assignor of one-half to C. D. Ehret, Mount Airy, Philadelphia, Pa. Transmitting apparatus. No. 1,382,206; June 21; v. 287; p. 467.
- McCabe, Edward F., Maplewood, N. J. Conveying system. No. 1,393,386; Oct. 11.
- McCabe, Harry B., Mount Pleasant, Iowa. Trailer for vehicles. No. 1,400,300; Dec. 13.
- McCabe, Horace B., assignor to Gisholt Machine Company, Madison, Wis. Ribbon-reversing mechanism for time-recording registers. No. 1,397,895; Nov. 22.
- McCabe, Hugh, Lawrence, Mass. Cold-flanging straight-edged sheet metal. No. 1,368,342; Feb. 15; v. 283; p. 590.
- McCabe, Hugh, Lawrence, Mass. Cold-dishing sheet metal. No. 1,383,475; July 5; v. 288; p. 45.
- McCabe, Hugh, Lawrence, Mass. Flanging-machine. No. 1,387,603; Aug. 16; v. 289; p. 449.
- McCabe, James, Jamestown, N. D. Nut-lock. No. 1,372,525; Mar. 22; v. 284; p. 695.
- McCabe, John R., Wichita, Kans. Producing motor fuel. No. 1,376,713; May 3; v. 286; p. 63.
- McCabe, Thomas, Yorkville, Ohio. Plate-lifting mechanism for rolling-machines. No. 1,389,521; Aug. 30; v. 289; p. 941.
- McCachen, Alexander, Dunbarton, Ontario, Canada. Reversible colter. No. 1,381,576; June 14; v. 287; p. 290.
- McCaffery, Peter, San Bernardino, Calif. Collapsible center mold for hollow walls. No. 1,387,790; Aug. 16; v. 289; p. 487.
- McCaffrey, Horace, Dallas, Tex. Screen-fastener. No. 1,369,036; Feb. 22; v. 283; p. 565.
- McCaffrey, Mary M., assignor of one-half to I. L. Bayless, Washington, D. C. Safety-razor. No. 1,382,301; June 21; v. 287; p. 486.
- McCaffrey, Robert E. (See Miller, A. H., and McCaffrey.)
- McCahey, George F., Providence, R. I. Braiding-machine. No. 1,364,291; Jan. 4; v. 282; p. 48.
- McCaig, Thomas E. (See Roadhouse, Robert, assignor.)



*Alphabetical list of patentees—Continued.*

- McCain, George L., assignor to Packard Motor Car Company, Detroit, Mich. Pump-driving mechanism. No. 1,382,997; June 28; v. 287; p. 673.
- McCall Company, The. (See Hutter, Francis, assignor.)
- McCall Company, The. (See Hutter, Franz, assignor.)
- McCallan, Arthur, Ottawa, Ontario, Canada. Dustpan. No. 1,384,076; July 12; v. 288; p. 219.
- McCallin, Francis R., Long Island City, N. Y. Fender. No. 1,382,302; June 21; v. 287; p. 486.
- McCallum, Arthur L. (See Lee, F. E., McCallum, and Blaylock.)
- McCallum, D. R. (See Hinson, John K., assignor.)
- McCallum, George L., Crosby, Pa. Door for box-cars. No. 1,373,516; Apr. 5; v. 285; p. 27.
- McCalmont, Frederick J., De Smet, S. D. Locking-valve. No. 1,400,615; Dec. 20.
- McCamon, Melvin. (See Winters, J. P., and McCamon.)
- McCampbell, Roy F., G. H. Scott, and G. Q. Smith, Chicago, Ill. Funeral and burial apparatus. No. 1,375,793; Apr. 26; v. 285; p. 600.
- McCandless, Alva C., and D. L. Harris, Wichita, Kans. Ignition system for engines. No. 1,371,797; Mar. 15; v. 284; p. 500.
- McCann, Grant, *et al.* (See Hubble, Joe H., assignor.)
- McCann, Harry P., Lakewood, Ohio. Furnace and conveying materials therethrough. No. 1,400,367; Dec. 13.
- McCann, James, Gage, Mont. Heating-stove. No. 1,368,405; Feb. 15; v. 283; p. 402.
- McCann, John C. (See König, William F., assignor.)
- McCann, John J., Toronto, Ontario, Canada. Prayer-rail. No. 1,394,919; Oct. 25.
- McCann, John W., Pauls Valley, Okla. File. No. 1,395,197; Oct. 25.
- McCann, Joseph H., *et al.* (See McCann, Joseph W., assignor.)
- McCann, Joseph W., assignor of one-half to J. H. McCann and one-half to G. P. Kimmel, Washington, D. C. Dummy keyboard. No. 1,385,256; July 19; v. 288; p. 544.
- McCann, Robert, Columbus, Ohio. Draft-regulator for furnaces. No. 1,380,666; June 7; v. 287; p. 65.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. No. 1,377,211; May 10; v. 286; p. 214.
- McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. No. 1,400,964; Dec. 20.
- McCarley, William T., Luling, Tex. Device for lifting push-rods on Ford motors. No. 1,395,128; Oct. 25.
- McCarrell, William A., Milwaukee, Wis. Transmission-clutch. No. 1,380,917; June 7; v. 287; p. 114.
- McCarroll, James E., Holden, La. Locomotive-driver. No. 1,382,303; June 21; v. 287; p. 486.
- McCarter, Charles, Decatur, Ill. Pipe and nut wrench. No. 1,374,748; Apr. 12; v. 285; p. 306.
- McCarter, William A., Topeka, Kans. Dental expansion-arch. No. 1,395,922; Nov. 1.
- McCarthy, Bartholomew F., Brooklyn, N. Y. Lock. No. 1,374,749; Apr. 12; v. 285; p. 306.
- McCarthy, Charles S., Jr., Sandusky, assignor, by mesne assignments, to The Motor Maculivator Company, Toledo, Ohio. Cultivator. No. 1,399,021; Dec. 6.
- McCarthy, Daniel J., Elgin, Ill., assignor to Chicago Railway Signal and Supply Company, Chicago, Ill. Signal system. No. 1,389,061; Aug. 30; v. 289; p. 850.
- McCarthy, Edward F., Chicago, Ill. Carbureter. No. 1,381,208; June 14; v. 287; p. 221.
- McCarthy, Edward F., Chicago, Ill., assignor to Vacuum Machinery Co., Marinette, Wis. Liquid-displacement apparatus. No. 1,371,039; Mar. 8; v. 284; p. 289.
- McCarthy, Edward F., assignor to Vacuum Machinery Co., Chicago, Ill. Combined feed-water heater and aspirator. No. 1,382,104; June 21; v. 287; p. 448.
- McCarthy, Edward F., assignor to The Ramo Manufacturing Company, Chicago, Ill. Shock-absorber for automobiles. No. 1,391,553; Sept. 20; v. 290; p. 557.
- McCarthy, J. F. C. (See Bell, George T., assignor.)
- McCarthy, John H., and H. E. Graff, Lyons, N. Y., assignors to The McCarthy Novelty Company, Whitehall, N. Y. Toy cart. No. 1,387,281; Aug. 9; v. 289; p. 332.
- McCarthy, Michael, assignor to himself and W. Moriarty, London, England. Armchair. No. 1,389,254; Aug. 30; v. 289; p. 888.
- McCarthy Novelty Company, The. (See McCarthy, John H., and Graff, assignors.)
- McCarthy, William F., assignor to Defiance Machine Works, Defiance, Ohio. Independent feed rail drill. No. 1,382,433; June 21; v. 287; p. 512.
- McCarthy, William F., assignor to Defiance Machine Works, Defiance, Ohio. Multiple-spindle drilling-machine. No. 1,382,434; June 21; v. 287; p. 512.
- McCart, Dwight G., Emmetsburg, Iowa. Office appliance. No. 1,367,983; Feb. 8; v. 283; p. 273.
- McCart, Roy A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ventilation of dynamo-electric machines. No. 1,395,347; Nov. 1.
- McCart, William F., assignor to Defiance Machine Works, Defiance, Ohio. Boring-machine. No. 1,392,778; Oct. 4.
- McCash, Perry V., Seattle, Wash., assignor, by mesne assignments, to International Finance Company, a Corporation of Washington. Circuit-interrupter. No. 1,365,042; Jan. 11; v. 282; p. 237.
- McCaskell, Jasper A., Salt Lake City, Utah. Clarifying solutions. No. 1,396,514; Nov. 8.
- McCaskell, Jasper A., assignor to Kelly Filter Press Co., Salt Lake City, Utah. Head mechanism for filter-presses. No. 1,371,634; Mar. 15; v. 284; p. 468.
- McCasky Register Company, The. (See Peterson, Fredolf J., assignor.)
- McCasky Register Company, The, (incorporated in 1914.) (See Moseley, Emerson B., assignor.)
- McCasky Register Company (Incorporated in 1914), Alliance, Ohio. (See Hick, Harry J., assignor.)
- McCauley, Drewey M., Algood, Tenn. Gate. No. 1,377,901; May 10; v. 286; p. 348.
- McCauley, Terence, Warren, Ohio. Roll scraper. No. 1,394,102; Oct. 18.
- McCay, Jasper N., Watts, Calif. Truss-pad. No. 1,377,260; May 10; v. 286; p. 224.
- McChesnie, Daniel, Webbwood, Ontario, Canada. Track-walker's kit. No. 1,397,644; Nov. 22.
- McChesney, Harry W., St. Louis, Mo. Cigarette-holder. No. 1,372,304; Mar. 22; v. 284; p. 653.
- McChesney, J. S., & Co. (See Ritter, Charles E., assignor.)
- McChesney, Louis P., El Paso, Tex. Hot-water heating system. No. 1,364,772; Jan. 4; v. 282; p. 140.
- McChesney, Louis P., El Paso, Tex. Boiler. No. 1,366,268; Jan. 18; v. 282; p. 514.
- McClain, John R., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Forming composite plates. No. 1,365,330; Jan. 11; v. 282; p. 291.
- McClain, John R., Edgewood, Pa., assignor to Westinghouse Electric and Manufacturing Company. Self-lubricating gear. No. 1,401,622; Dec. 27.
- McClair, Katherine, Chicago, Ill. Curler. No. 1,397,532; Nov. 22.
- McClatchie, Griffin Y., Palo Alto, Calif. Automobile-engine-oiling device. No. 1,387,654; Aug. 16; v. 289; p. 459.
- McClay, Charles E., Los Angeles, Calif. Wind-deflector for vehicles and making the same. No. 1,367,527; Feb. 1; v. 283; p. 128.
- McClay, David O., *et al.*, trustees. (See Rockwell, R. L., and Stevens, assignors.)
- McCleave, William G., Gibsonia, Pa. Truck. No. 1,371,211; Mar. 8; v. 284; p. 321.
- McClellan, Allen M., Blountstown, Fla. Stump-puller. No. 1,370,465; Mar. 1; v. 284; p. 135.
- McClellan, Harry H., Dayton, Ohio. Foot-supporter. No. 1,374,669; Apr. 12; v. 285; p. 291.
- McClellan, Marion E., McClellan, Minn. Toe-strap for skes. No. 1,391,260; Sept. 20; v. 290; p. 497.
- McClellan, Walter N., assignor of twenty per cent. to G. M. Hinston, Brooklyn, N. Y. Car-door-actuating mechanism. No. 1,369,681; Feb. 22; v. 283; p. 690.
- McClellan, William J., Attleboro, assignor to Freeman-Daughaday Co., Chartley, Mass. Collar-holder. No. 1,389,675; Sept. 6; v. 290; p. 23.
- McClelland, Bertha M., Walton, N. Y. Doll. No. 1,396,766; Nov. 15.
- McClelland, Harold R., and J. McLean, assignors to N. E. McClelland & Company, Limited, Montreal, Quebec, Canada. Cargo vessel. No. 1,401,623; Dec. 27.
- McClelland, Marshall L. (See Barry, C. R., and McClelland.)
- McClelland, N. E., & Company. (See McClelland, H. R., and McLean, assignors.)
- McClenathen, Robert, Cuyahoga Falls, and J. Noall, Akron, Ohio, assignors to Kelly Springfield Tire Co. Fabric-smoothing machine. No. 1,377,212; May 10; v. 286; p. 214.
- McClenathen, Robert, Cuyahoga Falls, Ohio, assignor to Kelly Springfield Tire Co. Rubber-tire-building machine. No. 1,380,667; June 7; v. 287; p. 65.
- McClevey, Walter S., St. Louis, Mo. Pneumatic tire. No. 1,396,515; Nov. 8.
- McClimon, Jay S., assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Door-operating mechanism for tilting furnaces. No. 1,376,819; May 3; v. 286; p. 83.
- McClimon, Jay S., and R. Wetherill, Jr., assignors to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Feed mechanism for gas-producers. No. 1,382,371; June 21; v. 287; p. 499.
- McClintock, Charles N., assignor to H. M. Manufacturing Company, Elwood, Ind. Rope shipping-baiter. No. 1,374,087; Apr. 5; v. 285; p. 138.
- McClintock, Ora D., Portland, Oreg. Hair-curler. No. 1,373,968; Apr. 5; v. 285; p. 115.
- McCloskey, John E., Johnstown, Pa. Shade-roller support. No. 1,392,512; Oct. 4.
- McCloud, Edward H., assignor, by mesne assignments, to The Kinnear Manufacturing Company, Columbus, Ohio. Fire-resisting shutter. No. 1,376,820; May 3; v. 286; p. 83.
- McCloud, Edward H., assignor, by mesne assignments, to The Kinnear Manufacturing Company, Columbus, Ohio. Metallic door. No. 1,385,694; July 26; v. 288; p. 710.
- McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Door or shutter. No. 1,386,192; Aug. 2; v. 289; p. 46.
- McCloud, Edward H., assignor to The Kinnear Manufacturing Company, Columbus, Ohio. Elevator-door. No. 1,401,418; Dec. 27.



*Alphabetical list of patentees—Continued.*

- McClung, Charlie S., Longacre, W. Va. Gambrel. No. 1,373,823; Apr. 5; v. 285; p. 86.
- McClung, James R., Carter, Okla. Cotton-seed-meal press. No. 1,390,053; Sept. 6; v. 290; p. 100.
- McClurd, Elbert B., Elizabethton, Tenn. Seat construction for sewing and other machines. No. 1,395,130; Oct. 25.
- McClure, Claude H., Oaktown, Ind. Worm-gear. No. 1,394,852; Oct. 25.
- McClure, David F., Osceola, Ind. Dirigible headlight for automobiles. No. 1,367,882; Feb. 8; v. 283; p. 255.
- McClure, Ora D., *et al.* (See Mayne, John, assignor.)
- McClure, Rodney N., Los Angeles, Calif. Direction-indicator. No. 1,366,400; Jan. 25; v. 282; p. 583.
- McClure, Rodney N., Los Angeles, Calif. Direction-indicator. No. 1,366,739; Jan. 25; v. 282; p. 651.
- McClure, Rodney N., Los Angeles, Calif. Direction-indicator. No. 1,387,791; Aug. 16; v. 289; p. 488.
- McClure, Royal A., *et al.*, trustees. (See Rockwell, R. L., and Stevens, assignors.)
- McClure, Silas. (See Palmer, Stanley W., assignor.)
- McClure, Silas, Beaver Dam, Wis. Combination coal and gas range. No. 1,400,558; Dec. 20.
- McClurg, John S., New York, N. Y., assignor, by mesne assignments, to Carlisle Tire Corporation. Automobile-tire. No. 1,400,301; Dec. 13.
- McClurkin, Oak B., Morning Sun, Iowa. Wrench. No. 1,367,407; Feb. 1; v. 283; p. 105.
- McClurkin, Oak B., Morning Sun, Iowa. Wrench. No. 1,367,408; Feb. 1; v. 283; p. 105.
- McCluskey, Daniel J., Berkeley, Calif. Spring-wheel. No. 1,399,220; Dec. 6.
- McClymont, Bryce W., assignor to Penberthy Injector Company, Detroit, Mich. Steam-heating apparatus. No. 1,378,252; May 17; v. 286; p. 47.
- McClymont, Bryce W., assignor to Penberthy Injector Company, Detroit, Mich. Vacuum-generator for steam-heating systems. No. 1,388,871; Aug. 30; v. 289; p. 811.
- McCoard, David, Elmer, Okla. Poultry-feeder. No. 1,370,466; Mar. 1; v. 284; p. 135.
- McColl, Albert E., Dumbarton, Scotland, assignor of one-half to The General Electric Company Limited, Birmingham, England. Protective device for alternating-current electric systems. No. 1,393,228; Oct. 11.
- McCollow, William J., Clifton, N. J. Ash-pan. No. 1,390,455; Sept. 13; v. 290; p. 271.
- McCollough, James H., Jr., San Jose, Calif. Automobile-seat. No. 1,379,270; May 24; v. 286; p. 733.
- McCollough, W. A., & Sons. (See McCollough, William A., assignor.)
- McCollough, William A., assignor to W. A. McCollough & Sons, Inc. Hog-waterer. No. 1,392,513; Oct. 4.
- McCollow, Alfred F., Bloomsburg, Pa. Method and machine for printing pile fabrics. No. 1,377,083; May 3; v. 286; p. 134.
- McCollow, Alfred F., assignor of three-fifths to James Magee, 2d, Bloomsburg, Pa. Shuttle for sewing-machines. No. 1,398,872; Nov. 29.
- McCollow, Fred C., and C. F. Everett, Jackson, Mich. Repair outfit for rubber boots, rubber overshoes, and like articles. No. 1,372,179; Mar. 22; v. 284; p. 628.
- McCollow, John, Topeka, Kans. Valve-dressing tool. No. 1,364,391; Jan. 4; v. 282; p. 66.
- McComb, David, and J. Stoughton, Wis. Automobile-tire chain. No. 1,391,261; Sept. 20; v. 290; p. 497.
- McCombs, George F., Connorsville, Ind. Dental tool for extracting lower molars. No. 1,389,954; Sept. 6; v. 290; p. 80.
- McComb, Henry G., New York, N. Y. Toy tank. No. 1,376,347; Apr. 26; v. 285; p. 707.
- McComb, James K., Toronto, Ontario, Canada. Garment. No. 1,367,666; Feb. 8; v. 283; p. 213.
- McComb, John. (See McComb, David, and J.)
- McComb, Richard J., Chicago, Ill., assignor to Q & C Company, New York, N. Y. Manufacture of splice-bars for rail-joints. No. 1,373,749; Apr. 5; v. 285; p. 71.
- McComb, William M., New York, N. Y. Converting higher-boiling-point hydrocarbon oils into lower-boiling-point hydrocarbon oils. No. 1,374,858; Apr. 12; v. 285; p. 327.
- McComb, William P., Conroe, Tex. Combination valve-cap and tire-deflator. No. 1,370,603; Mar. 8; v. 284; p. 206.
- McConway & Torley Company, The. (See Buhoup, Harry C., assignor.)
- McConahey, William M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer. No. 1,389,148; Aug. 30; v. 289; p. 866.
- McConal, William, San Saba, Tex. Harrow. No. 1,387,008; Aug. 9; v. 289; p. 280.
- McConnell, C. D., and J. M. Bryson, Oskaloosa, Iowa. Running, starting, and burning-in attachment for motor-handling machines. No. 1,382,659; June 28; v. 287; p. 608.
- McConnell, Duncan A., Montclair, N. J., assignor to Klaxon Company. Mechanical horn. No. 1,378,124; May 17; v. 286; p. 443.
- McConnell, Duncan A., Arlington, N. J., assignor to Klaxon Company. Vibratory-diaphragm signaling device. No. 1,400,085; Dec. 13.
- McConnell, Edward B., Newark, N. J. Grate-bar and support therefor. No. 1,382,998; June 28; v. 287; p. 673.
- McConnell, George, Grand Rapids, Mich. Gluing-machine. No. 1,399,975; Dec. 13.
- McConnell, Grover C. (See Routt, O. L., and McConnell.)
- McConnell, Thomas J., Atlanta, Ga. Combined clinometer and direction-indicator. No. 1,371,500; Mar. 15; v. 284; p. 443.
- McConnell, William E. (See McConnell, William S. and W. E.)
- McConnell, William S. and W. E., Kansas City, Kans. Multiple-jaw-setting attachment for steady-rests for lathes. No. 1,378,253; May 17; v. 286; p. 467.
- McConoughey, Oscar H., San Francisco, Calif. Railway-rail and tie fastener, bed-plate, and anticreeping device. No. 1,398,385; Nov. 29.
- McConway & Torley Company, The. (See George, E., Jr., and Milliken, assignors.)
- McConway & Torley Company, The. (See George, Enoch, Jr., assignor.)
- McConway & Torley Company. (See Kelso, Joseph, assignor.)
- McConway & Torley Company, The. (See Kelso, William, assignor.)
- McCool, Edward F., Cleveland, Ohio. Pulverizing-mill. No. 1,399,067; Dec. 6.
- McCool, James H., Ellsworth, Kans. Attachment for pool-tables. No. 1,386,577; Aug. 2; v. 289; p. 119.
- McCool, James H., Ellsworth, Kans. Attachment for pool-tables. No. 1,386,578; Aug. 2; v. 289; p. 120.
- McCool, James H., Ellsworth, Kans. Racking-frame for pool-balls. No. 1,391,901; Sept. 27; v. 290; p. 699.
- McCool, James H., Ellsworth, Kans. Pool-table. No. 1,391,909; Sept. 27; v. 290; p. 701.
- McCord and Company. (See Achlacks, William J., assignor.)
- McCord, Harry C., Baltimore, Md. Folding crib. No. 1,390,630; Sept. 13; v. 290; p. 308.
- McCord Manufacturing Company. (See Holle, Joseph, assignor.)
- McCormick, Charles M., Columbus, Ohio. Pocket-flap. No. 1,376,821; May 3; v. 286; p. 84.
- McCorkindale, William P., Holyoke, Mass. Napkin-package. No. 1,369,930; Mar. 1; v. 284; p. 33.
- McCorkindale, William P., assignor of one-half to C. A. Lawrence, Holyoke, Mass. Vehicle-top. No. 1,395,129; Oct. 25.
- McCormick, Andrew. (See Wallis, Thomas M., assignor.)
- McCormick, George G., Collinsville, Ill. Clothes-draining basket. No. 1,382,521; June 21; v. 287; p. 528.
- McCormick, John H., Creston, Iowa. Motor-support. No. 1,397,433; Nov. 15.
- McCormick, Langdon, New York, N. Y. Illusionary apparatus for theaters. No. 1,372,969; Mar. 29; v. 284; p. 825.
- McCormick, Robert R., Chicago, Ill. Paper-roll storage and delivery gallery. No. 1,383,318; July 5; v. 288; p. 12.
- McCormick, Thomas, Klamath Falls, Oreg. Portable saw device. No. 1,388,186; Aug. 23; v. 289; p. 621.
- McCormick, Thomas J., Elko, Nev. Oil-well underreamer. No. 1,401,545; Dec. 27.
- McCornack, Herbert, Glen Ridge, assignor to Empire Cream Separator Company, Bloomfield, N. J. Teat-cup. No. 1,385,050; July 19; v. 288; p. 502.
- McCornack, Herbert, assignor to Empire Cream Separator Company, Bloomfield, N. J. Pulsating mechanism. No. 1,392,346; Oct. 4.
- McCornack, Herbert, Glen Ridge, assignor to Empire Cream Separator Company, Bloomfield, N. J. Milking-machine system. No. 1,393,387; Oct. 11.
- McCorquodale, Wilmer E., Orange, Tex. Hay-press. No. 1,401,715; Dec. 27.
- McCoskrie, Reuben G., Goodland, Kans. Antirattling device. No. 1,398,105; Nov. 22.
- McCourt, Patrick H., St. Louis, Mo. Umbrella-supporting means. No. 1,368,516; Feb. 15; v. 283; p. 425.
- McCown, Cassius G., Alliance, Ohio. Railway-tie. No. 1,386,718; Aug. 9; v. 289; p. 221.
- McCowan, David A., Toronto, Ontario, Canada. Vending-machine. No. 1,393,147; Oct. 11.
- McCoy, Herbert N., assignor to Lindsay Light Company, Chicago, Ill. Manufacturing thorium nitrate. No. 1,366,128; Jan. 18; v. 282; p. 486.
- McCoy, James P. A., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Apparatus for applying covering of sheet material. No. 1,385,967; July 26; v. 288; p. 763.
- McCoy, James P. A., Milwaukee, Wis., assignor to Westinghouse Electric and Manufacturing Company. Molding composition. (Reissue.) No. 15,199; Sept. 20; v. 290; p. 577.
- McCoy, James W., Detroit, Mich. Chicken-roost. No. 1,395,849; Nov. 1.
- McCoy, John D., Kirksville, Mo. Tire-chain tool. No. 1,397,592; Nov. 22.
- McCoy, John W. (See Connolly, A., and McCoy.)
- McCoy, Josephine, Sandusky, Ohio. Stovepipe-holder. No. 1,392,841; Oct. 4.
- McCoy, Marion M., Dawson, N. Mex., assignor of one-half to G. A. Will, St. Louis, Mo. Spark-plug. No. 1,395,923; Nov. 1.
- McCoy, Ray, *et al.* (See Wheeler, Leon H., assignor.)
- McCoy, Robert A. G., New York, N. Y. Game apparatus. No. 1,382,435; June 21; v. 287; p. 512.



- McCoy, Timothy R. (See Mattman, W. H., and McCoy.)  
 McCoy, Walter E., New York, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Summating device. No. 1,368,343; Feb. 15; v. 283; p. 391.  
 McCracken, George B., Willimantic, Conn. Valve. No. 1,389,955; Sept. 6; v. 290; p. 80.  
 McCracken, R. M. (See Johnson, Orlando B., assignor.)  
 McCracken, Samuel H., New Kensington, Pa. Attachment for accounting-machines. No. 1,382,999; June 28; v. 287; p. 673.  
 McCrae, George, Brantford, Ontario, Canada. Cylindrical kiln and drier. No. 1,399,503; Dec. 6.  
 McCrae, George, Brantford, Ontario, Canada. Pulverizer or grinding machine. No. 1,401,716; Dec. 27.  
 McCrahon, Edward H., Syracuse, N. Y. Puttee. No. 1,367,065; Feb. 1; v. 283; p. 36.  
 McCray, John M., Pueblo, Colo. Button-knife. No. 1,380,226; May 31; v. 286; p. 987.  
 McCready, Joseph H. (See Cornwell, E. E., and McCready.)  
 McCready, Edward J. (See McCready, John and E. J.)  
 McCready, Harry, Youngstown, Ohio. Storage battery. No. 1,369,931; Mar. 1; v. 284; p. 34.  
 McCready, John and E. J., Cohoes, N. Y. Machine for treating blankets. No. 1,400,446; Dec. 13.  
 McCrery Sanitary Collapsible Barrel Company. (See McCrery, William H., assignor.)  
 McCrery, William H., Norfolk, Va., assignor to McCrery Sanitary Collapsible Barrel Company, Incorporated, Philadelphia, Pa. Collapsible barrel. No. 1,391,900; Sept. 27; v. 290; p. 699.  
 McCrie, May, *et al.* (See McCrie, Queenie, assignor.)  
 McCrie, Queenie, deceased; W. McCrie, administrator, assignor of one-half to M. McCrie, Sarnia, Ontario, and one-half to W. O. Sheets, Clivale, Alberta, Canada. Fruit-picker. No. 1,373,898; Apr. 5; v. 285; p. 101.  
 McCrie, William, administrator. (See McCrie, Queenie.)  
 McCrone, John W., Kansas City, Mo. Refrigerator. No. 1,387,159; Aug. 9; v. 289; p. 309.  
 McCrory, Harvey B., and W. Pearson, Saginaw, Mich. Abdominal retractor. No. 1,400,616; Dec. 20.  
 McCrosky, Aubrey D., assignor of one-half to B. B. McCrosky, Oakland, Calif. Doll. No. 1,395,984; Nov. 1.  
 McCrosky, Bynum B. (See McCrosky, Aubrey D., assignor.)  
 McCrosky, Bynum B., Oakland, Calif. Ship. No. 1,384,140; July 12; v. 288; p. 232.  
 McCrosky Tool Corporation. (See Deater, Willard F., assignor.)  
 McCrosky Tool Corporation. (See Norton, Samuel H., assignor.)  
 McCue, Charles W. (See Conger, H. O., and McCue.)  
 McCuen, Charles L., assignor to Resolute Manufacturing Company, Chicago, Ill. Sealed radius-bearing. No. 1,400,754; Dec. 20.  
 McCuen, Charles L., assignor to Resolute Manufacturing Company, Chicago, Ill. Compressor. No. 1,400,755; Dec. 20.  
 McCuen, Charles L., Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Belt-tightening mechanism. No. 1,401,169; Dec. 27.  
 McCullagh, John K., Toronto, Ontario, Canada. Automobile lamp and license-plate holder. No. 1,394,517; Oct. 18.  
 McCulley, Thomas A., San Francisco, Calif. Wave-motor. No. 1,385,083; July 19; v. 288; p. 509.  
 McCulley, Thomas A., assignor of forty-five one-hundredths to M. B. Deane, San Francisco, Calif. Razor-hone. No. 1,393,297; Oct. 11.  
 McCulloch, Alexander, Goven, Saskatchewan, Canada. Door latch. No. 1,395,688; No. 1.  
 McCulloch, Harold W., New York, N. Y. Hinged brake-band. No. 1,371,916; Mar. 15; v. 284; p. 522.  
 McCulloch, Harold W., New York, N. Y. Brake-band. No. 1,371,917; Mar. 15; v. 284; p. 522.  
 McCullough, Henry L. (See Ripley, Edward G., assignor.)  
 McCullough, J. W., *et al.* (See Perkins, George E., assignor.)  
 McCulloch, John J., Pomeroy, Iowa. End-gate. No. 1,386,882; Aug. 9; v. 289; p. 254.  
 McCulloch, Leon, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric resistance element. No. 1,365,331; Jan. 11; v. 282; p. 292.  
 McCulloch, Leon, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Insulating material. No. 1,386,008; Aug. 2; v. 289; p. 9.  
 McCullough, Paul J., assignor to De Vilbiss Endless Film Machine Company, St. Louis, Mo. Motion-picture machine. No. 1,399,504; Dec. 6.  
 McCullough, William D., and T. Mahoney, assignors to Premier Cushion Spring Company, Detroit, Mich. Upholstery-spring construction. No. 1,387,160; Aug. 9; v. 289; p. 309.  
 McCullough, William T., assignor of one-half to H. J. Orth, Pittsburgh, Pa. Signaling torpedo. (Reissue.) No. 15,101; May 10; v. 286; p. 367.  
 McCune, Roy A., East Pittsburgh, Pa. Suspension-bearing. No. 1,398,138; Nov. 22.  
 McCurrie, Hugh C., San Francisco, Calif. Animal-trap. No. 1,400,175; Dec. 13.  
 McCurry, Earl M., and G. R. Bilger, assignors to The Banner Machine Company, Columbiana, Ohio. Collapsible core. No. 1,365,709; Jan. 18; v. 282; p. 404.  
 McCutchen, Brunson S., Plainfield, N. J. Wringer. No. 1,399,303; Dec. 6.  
 McCutchen, Brunson S., Plainfield, N. J. Wringer. No. 1,399,304; Dec. 6.  
 McCutchen, Brunson S., U. S. Army, and H. E. Williams, Carthage, Mo. Synchronous transmitter. No. 1,377,844; May 10; v. 286; p. 337.  
 McCutchen, Charles G. (See Baker, Arthur B., assignor.)  
 McCutchen, Uriah R., assignor of one-third to J. A. Bryden and one-third to J. A. Hall, Springfield, Ill. Gasolene service-station. No. 1,387,421; Aug. 9; v. 289; p. 336.  
 McCutcheon, Everett N., *et al.* (See Van Sant, William S., assignor.)  
 McCutcheon, John, Peabody, Kans. Extricating device. No. 1,401,092; Dec. 20.  
 McDade, Andrew J., Brooklyn, N. Y. Calendar. No. 1,389,676; Sept. 6; v. 290; p. 23.  
 McDade, James E., Chicago, Ill. Chart. No. 1,401,341; Dec. 27.  
 McDaniel, Alonzo S., New York, and A. H. Nietz, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic developer and developing latent images. No. 1,370,896; Mar. 8; v. 284; p. 262.  
 McDaniel, Charles L., Kansas City, Mo. Drip-cup attachment for brushes. No. 1,396,967; Nov. 15.  
 McDaniel, D. A. (See Dusseau, Maurice G., assignor.)  
 McDaniel, Floyd B., Salem, Va. Safety air-brake device. No. 1,379,459; May 24; v. 286; p. 769.  
 McDaniel, Leo A., Herndon, Kans. Whiffletree. No. 1,372,762; Mar. 29; v. 284; p. 782.  
 McDaniel, Newton M., Carlton, assignor of one-half to C. L. Starr, Portland, Ore. Non-skid attachment for vehicles. No. 1,398,942; Nov. 29.  
 McDaniel, Walter O., assignor to The H-K Toy & Novelty Co., Indianapolis, Ind. Toy motor-vehicle. No. 1,375,713; Apr. 26; v. 285; p. 586.  
 McDaniels, Frank A., Portland, Ore. Controlling device. No. 1,401,093; Dec. 20.  
 McDannold, Alexander, Hallandale, Fla. Automatic clutch-control. No. 1,371,918; Mar. 15; v. 284; p. 522.  
 McDannold, Alexander, Hallandale, Fla. Electric switch. No. 1,391,782; Sept. 27; v. 290; p. 675.  
 McDavis, John H., Newark, N. J. Medical compound. No. 1,389,677; Sept. 6; v. 290; p. 24.  
 McDermott, Henry, Electra, Tex. Friction transmission mechanism. No. 1,387,550; Aug. 16; v. 289; p. 439.  
 McDermott, Henry, Iron River, assignor to McDermott Mechanical Company, Iron Mountain, Mich. Shoveling-machine. No. 1,392,069; Sept. 27; v. 290; p. 734.  
 McDermott, James, *et al.* (See Speed, John, assignor.)  
 McDermott, James M., Springfield, Mass. Auto-transporting device. No. 1,375,403; Apr. 19; v. 285; p. 494.  
 McDermott, John, Kalamazoo, Mich. Antislip device for vehicle-wheels. No. 1,389,204; Aug. 30; v. 289; p. 877.  
 McDermott Mechanical Company. (See McDermott, Henry, assignor.)  
 McDermott, William R., and C. E. Showalter, Seattle, Wash. Folding brush. No. 1,391,783; Sept. 27; v. 290; p. 675.  
 McDill, Everett, Sparta, Ill. Mail-receptacle support. No. 1,377,084; May 3; v. 286; p. 134.  
 McDill, Rex D., Tampa, Fla. Food product. No. 1,365,000; Jan. 11; v. 282; p. 229.  
 McDill, Rex D., Tampa, Fla. Food product and making same. No. 1,365,001; Jan. 11; v. 282; p. 229.  
 McDill, Rex D. O., Riverview, Fla. Fruit preservative and using same. No. 1,400,086; Dec. 13.  
 McDonald, Arthur A., *et al.* (See Eastman, Harry N., assignor.)  
 McDonald, Catharine L., Caldwell, Ohio. Emergency-brake for vehicles. No. 1,385,877; July 26; v. 288; p. 747.  
 McDonald, Charles D., Chicago, Ill. Automatic die-press. No. 1,375,924; Apr. 26; v. 285; p. 625.  
 McDonald, Charles E., Butte, Mont. Safety appliance. No. 1,380,816; June 7; v. 287; p. 95.  
 McDonald, Clarence T., assignor to Chicago Fuse Mfg. Co., Chicago, Ill. Inclosed fuse. No. 1,379,114; May 24; v. 286; p. 704.  
 McDonald, Clarence T., assignor, by mesne assignments, to Chicago Fuse Mfg. Co., Chicago, Ill. Fuse. No. 1,396,333; Nov. 8.  
 McDonald, Coll, Mornington, Dunedin, New Zealand. Cellular construction of vessels. No. 1,366,269; Jan. 18; v. 282; p. 514.  
 McDonald, David C., Hammon, Calif. Radial excavator. No. 1,367,160; Feb. 1; v. 283; p. 55.  
 McDonald, Frances C., Chicago, Ill. Fastening device. (Reissue.) No. 15,042; Feb. 15; v. 283; p. 517.  
 McDonald, Francis A., College Point, N. Y. Stitching-guide. No. 1,396,447; Nov. 8.  
 McDonald, Frank J., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Edge-turning machine. No. 1,398,786; Nov. 29.  
 McDonald, Hiram B., assignor to Simonds Manufacturing Company, Fitchburg, Mass. Separable-tooth cutter. No. 1,365,180; Jan. 11; v. 282; p. 262.  
 McDonald, Howard C., Buffalo, N. Y. Towel-holder. No. 1,374,595; Apr. 12; v. 285; p. 277.  
 McDonald, James J., Cleveland, Ohio. Trap. No. 1,384,910; July 19; v. 288; p. 472.



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- McDonald, John F., Hibbing, Minn. Track-carrier. No. 1,364,883; Jan. 11; v. 282; p. 205.
- McDonald, John J., Vancouver, British Columbia, Canada. Raker-gage. No. 1,366,575; Jan. 25; v. 282; p. 619.
- McDonald, John K., assignor to Theft Warning Auto Lock Corporation, Los Angeles, Calif. Theft-warning automobile-lock. No. 1,385,461; July 26; v. 288; p. 662.
- McDonald, John U., Decatur, Ill. Making gas. No. 1,367,321; Feb. 1; v. 283; p. 87.
- McDonald, John U., Decatur, Ill. Furnace. No. 1,370,139; Mar. 1; v. 284; p. 72.
- McDonald, John U., Decatur, Ill. Feeder for powdered fuel. No. 1,386,009; Aug. 2; v. 289; p. 9.
- McDonald, Leslie R., Montreal, Quebec, Canada. Automatic repeating mechanism for phonographs. No. 1,393,229; Oct. 11.
- McDonald, Leslie R., Montreal, Quebec, Canada. Automatic repeating mechanism for phonographs. No. 1,393,230; Oct. 11.
- McDonald, Leslie R., assignor to W. J. O'Leary, Montreal, Quebec, Canada. High-frequency electrical oscillation apparatus. No. 1,389,255; Aug. 30; v. 289; p. 888.
- McDonald, Leslie R., assignor to M. V. O'Leary, Montreal, Quebec, Canada. Electric motor. No. 1,396,334; Nov. 8.
- McDonald, Leslie R., assignor to M. V. O'Leary, Montreal, Quebec, Canada. Constant-speed vibrating motor and method. No. 1,396,335; Nov. 8.
- McDonald, Leslie R., assignor to M. V. O'Leary, Montreal, Quebec, Canada. Direct-current vibratory motor. No. 1,396,336; Nov. 8.
- McDonald, Leslie R., assignor to M. V. O'Leary, Montreal, Quebec, Canada. Variable amplitude of vibration motor and method. No. 1,396,337; Nov. 8.
- McDonald, Lewis C., Page, Nebr. Rim-repairing machine. No. 1,377,845; May 10; v. 286; p. 337.
- McDonald, Thomas F., *et al.* (See Eastman, Harry N., assignor.)
- McDonald, Thomas J., Blue Ridge, Ga. Steam-generator. No. 1,381,481; June 14; v. 287; p. 271.
- McDonald, Vernon M., Denver, Colo., assignor of fifty-five one-hundredths to J. R. Kearney, Kansas City, Mo. Wire and cable puller. No. 1,378,702; May 17; v. 286; p. 553.
- McDonald, William B., Lawrence, Kans. Combination wood and cement post. No. 1,379,029; May 24; v. 286; p. 688.
- McDonel, John W., *et al.* (See Franklin, Clarence E., assignor.)
- McDonell, George B., Bartlesville, Okla. Spudding-shoe. No. 1,373,253; Mar. 29; v. 284; p. 880.
- McDonell, William E., assignor to E. Kirstein Sons Company, Rochester, N. Y. Ophthalmic mounting. No. 1,371,385; Mar. 15; v. 284; p. 420.
- McDonnell, George P., St. Louis, Mo. Saw-guard. No. 1,369,824; Mar. 1; v. 284; p. 14.
- McDonnell, Harry E., South Chicago, Ill. Indicator for operating changes. No. 1,372,970; Mar. 29; v. 284; p. 825.
- McDonough, Joseph G., Eau Claire, Wis. Lumber marker and grader. No. 1,367,066; Feb. 1; v. 283; p. 37.
- McDonough, Joseph G., Eau Claire, Wis. Machine for trade-marking or branding lumber or timber. No. 1,383,552; July 5; v. 288; p. 61.
- McDonough, Joseph G., Eau Claire, Wis. Lumber and timber trade-marking device. No. 1,400,223; Dec. 13.
- McDougal, Taine G., assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,356,883; Aug. 9; v. 289; p. 255.
- McDougall, Alexander M., Duluth, Minn. Vessel-loading device. No. 1,365,929; Jan. 18; v. 282; p. 448.
- McDougall, Alexander, Duluth, Minn. Vessel superstructure. No. 1,380,110; May 31; v. 286; p. 966.
- McDougall, Andrew H., assignor to Whiting Foundry Equipment Company, Harvey, Ill. Safety limit-stop for vertical screw-jacks. No. 1,366,402; Jan. 25; v. 282; p. 583.
- McDougall, Richard. (See Lamont, Angus, assignor.)
- McDougall, Taylor, Pasadena, and J. F. Smedley, assignors to Motorcycle Sweeper Company, Los Angeles, Calif. Street-sweeper. No. 1,369,118; Feb. 22; v. 283; p. 581.
- McDougall, Taylor, Pasadena, and S. Russo, Los Angeles, Calif.; said McDougall assignor to said Russo. Record-file. No. 1,379,030; May 24; v. 286; p. 688.
- McDowell, Byron J., San Diego, Calif. Necktie and collar holder. No. 1,368,740; Feb. 15; v. 283; p. 468.
- McDowell, Jay G., Sharon, Pa. Condenser and separator for compressed air. No. 1,366,403; Jan. 25; v. 282; p. 583.
- McDowell, John, Newark, N. J. Self-locking lifting device. No. 1,373,438; Apr. 5; v. 285; p. 11.
- McDowell, John F., Shreveport, La. Safety device for wells. No. 1,370,140; Mar. 1; v. 284; p. 72.
- McDowell, John F., Shreveport, La. Fishing-tool. No. 1,374,510; Apr. 12; v. 285; p. 260.
- McDowell, Rollin, Portland, Oreg. Child's vehicle. No. 1,391,554; Sept. 20; v. 290; p. 557.
- McDuff, Clarence L., Detroit, Mich. Pedal and control-lever lock. No. 1,380,817; June 7; v. 287; p. 95.
- McElhaney, James R., Vandergrift, assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Method and apparatus for makingterne plates. No. 1,392,588; Oct. 4.
- McElhaney, Lewis O., Glasford, Ill. Pick. No. 1,388,872; Aug. 30; v. 289; p. 811.
- McElhattan, Harrison W., Shippensburg, Pa. Rope-knife. No. 1,368,951; Feb. 15; v. 283; p. 509.
- McElligott, Harry A., Minneapolis, Minn. Calendar-fob. No. 1,390,300; Sept. 13; v. 290; p. 241.
- McElrath, William W., Jr., East Radford, Va. Spark-plug. No. 1,386,127; Aug. 2; v. 289; p. 33.
- McEnroe, Thomas H. (See Kunert, Arthur O., assignor.)
- McElroy, Karl P., Washington, D. C. Making carbon bisulfid. No. 1,369,825; Mar. 1; v. 284; p. 14.
- McElroy, Karl P., assignor to Ferro Chemicals, Inc., Washington, D. C. Making ammonia. No. 1,390,533; Sept. 13; v. 290; p. 287.
- McElroy, Robert L., New York, N. Y. Thermal circuit-closer. No. 1,374,596; Apr. 12; v. 285; p. 277.
- McElwain, Lloyd. (See Brown, Levi, assignor.)
- McEvoy, Leo F. (See Hathaway, C. H. Starck, and McEvoy.)
- McEwan, Charles F., Oak Park, assignor to H. D. Lathrop, Chicago, Ill. Can-washing machine. No. 1,390,516; Nov. 8.
- McEwen, James R., Goose Creek, Tex. Concrete building-block. No. 1,401,624; Dec. 27.
- McEwen, Willard M. (See Ben, Frank, assignor.)
- McEwen, Willard M., Chicago, Ill. Tire-casing filler. No. 1,389,005; Aug. 30; v. 289; p. 839.
- McFadden, Austin A., Grand Rapids, Mich. Amusement device. No. 1,365,419; Jan. 11; v. 282; p. 309.
- McFadden, James B., assignor to The Sharples Separator Co., West Chester, Pa. Apparatus for producing emulsions. No. 1,396,376; Nov. 8.
- McFadden, John, South Chicago, Ill. Folding square. No. 1,400,617; Dec. 20.
- McFadden, William C., Fairfield, Iowa. Display-shelving. No. 1,372,180; Mar. 22; v. 284; p. 629.
- McFaddin, Harrison D., East Orange, N. J. Attachment for desk-lamps. No. 1,384,394; July 12; v. 288; p. 285.
- McFaddin, Harrison D., East Orange, N. J. Shade-holder. No. 1,384,395; July 12; v. 288; p. 285.
- McFall, Loomis N., Denver, Colo. Grinding attachment for sewing-machines. No. 1,391,555; Sept. 20; v. 290; p. 557.
- McFall, Richard C., Hartline, Wash. Straw, chaff, and hay loader. No. 1,366,270; Jan. 18; v. 282; p. 514.
- McFall, William H., assignor to Carey-McFall Co., Philadelphia, Pa. Latch-lock. No. 1,388,732; Aug. 23; v. 289; p. 729.
- McFarland, Daniel, San Francisco, Calif. Moldboard-anchor. No. 1,390,918; Sept. 13; v. 290; p. 365.
- McFarland, Frank H., Fort Worth, Tex. Bale-tie buckle. No. 1,372,077; Mar. 22; v. 284; p. 609.
- McFarland, J. Norris. (See Letsch, Frederick W., assignor.)
- McFarland, J. C., Company. (See Treiber, Theodore R., assignor.)
- McFarland, Owen D. (See Cumfer, H., and McFarland.)
- McFarland, Owen D., assignor to Guyton and Cumfer Manufacturing Company, Chicago, Ill. Flanged coupling for double-pipe conduits. No. 1,389,763; Sept. 6; v. 290; p. 41.
- McFarland, Robert H., Wichita, Kans. Pocketbook. No. 1,371,104; Mar. 8; v. 284; p. 301.
- McFarland, Robert R., Wilkinsburg, Pa. Nut-lock. No. 1,368,637; Feb. 15; v. 283; p. 448.
- McFarlane, John, Broomhill, and D. Clelland, Clydebank, Glasgow, Scotland. Screw-cutting tap. No. 1,395,198; Oct. 25.
- McFee, William E., Mount Carroll, Ill. Connecting-link. No. 1,368,175; Feb. 8; v. 283; p. 309.
- McFeely, Ronald F., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers to lasts. No. 1,366,472; Jan. 25; v. 282; p. 598.
- McFeely, Ronald F., deceased, Beverly, by E. M. Sullivan, administrator, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,389,678; Sept. 6; v. 290; p. 24.
- McFeely, William C., New York, N. Y. Auxiliary car-step. No. 1,393,893; Oct. 18.
- McFeggans, Daniel L., Newark, N. J. Door-stop. No. 1,393,032; Oct. 11.
- McFillen, Harry H., Toledo, Ohio. Freight-house stamp. No. 1,365,002; Jan. 11; v. 282; p. 229.
- McFillen, Harry H., Toledo, Ohio. Multiple stamp. No. 1,398,733; Nov. 29.
- McGahan, Frederick L., Los Angeles, Calif. Turbine. No. 1,372,305; Mar. 22; v. 284; p. 653.
- McGahan, Frederick L., deceased, Los Angeles, Calif.; v. K. Walker, administratrix. Treating and handling products of combustion. No. 1,398,734; Nov. 29.
- McGall, Albert, New York, N. Y. Preparing finely-divided metals. No. 1,397,008; Nov. 15.
- McGalliard, Joseph W., assignor of one-half to N. A. D'Arcy, Los Angeles, Calif. Spring adjustment for concentrators. No. 1,369,898; Mar. 1; v. 284; p. 27.
- McGalliard, Joseph W., assignor of one-half to N. A. D'Arcy, Los Angeles, Calif. Ore-concentrator. No. 1,369,899; Mar. 1; v. 284; p. 28.



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- McGann, William H., Minneapolis, Minn. Grain-door-forcing device. No. 1,400,447; Dec. 13.
- McGarr, George A., Philadelphia, Pa. Broom-bridle. No. 1,401,342; Dec. 27.
- McGarvey, Edward, Beaver Falls, assignor to Standard Scale & Supply Company, Pittsburgh, Pa. Safety-latch for recording scale-beams. No. 1,378,966; May 24; v. 286; p. 676.
- McGavock, William J., Memphis, Tenn. Current-motor. No. 1,400,965; Dec. 20.
- McGavran, Stephen W. (See McLean, E. J., and McGavran.)
- McGee, Dan, Fort Worth, Tex. Aeroplane. No. 1,400,490; Dec. 13.
- McGee, Frank R., Steubenville, Ohio, and A. F. Nesbit, Wilkinsburg, Pa. Method of and apparatus for cleaning gases. No. 1,372,710; Mar. 29; v. 284; p. 772.
- McGee, Frank R., Steubenville, Ohio, and A. F. Nesbit, Wilkinsburg, Pa. Centrifugal gas-cleaning apparatus. No. 1,381,719; June 14; v. 287; p. 317.
- McGee, Frank R., and G. W. Vreeland, Steubenville, Ohio. Dry-gas cleaner. No. 1,396,767; Nov. 15.
- McGee, James R., Milwaukee, Wis. Automatic railway-gate. No. 1,389,256; Aug. 30; v. 289; p. 888.
- McGee, Richard T., Wheeling, W. Va. Glass-delivery apparatus. No. 1,394,920; Oct. 25.
- McGee, Walter, & Son, Limited. (See Walls, Alexander G., assignor.)
- McGee, Wilbert R., Seattle, Wash. Cartridge-reloading machine. No. 1,398,106; Nov. 22.
- McGee, William H., Austin, Tex. Charcoal-burning apparatus. No. 1,387,060; Aug. 9; v. 289; p. 290.
- McGehee, Abner J., Jackson, Tenn. Gasolene service-tank. No. 1,374,020; Apr. 5; v. 285; p. 125.
- McGehee, Abner J., Jackson, Tenn. Gasolene service-tank. No. 1,383,135; June 28; v. 287; p. 699.
- McGehee, Abner J., Jackson, Tenn. Gasolene service-tank. No. 1,383,136; June 28; v. 287; p. 699.
- McGehee, Abner J., Jackson, Tenn. Gasolene-dispensing apparatus. No. 1,383,137; June 28; v. 287; p. 699.
- McGehee, Ira E., Chatham, Miss., assignor of one-sixth to M. Jones, Memphis, Tex., one-sixth to M. P. Sturdivant, Glendora, and one-sixth to J. S. Watson, Lexington, Miss. Cotton-picker head. No. 1,372,711; Mar. 29; v. 284; p. 772.
- McGenniss, David, Leaksville, assignor, by mesne assignments, to The Carolina Cotton & Woolen Mills Co., Spray, N. C. Nethergarments. No. 1,373,341; Mar. 29; v. 284; p. 898.
- McGeorge, John. (See Hennessy, D. E., and McGeorge.)
- McGeorge, John, Lakewood, assignor to The Ohio Body & Blower Company, Cleveland, Ohio. Ventilator. No. 1,373,476; May 17; v. 286; p. 509.
- McGhee, Jesse M., Estancia, N. Mex. Combined desk, table, and bed. No. 1,375,524; Apr. 19; v. 285; p. 517.
- McGhee, John, Glasgow, Scotland. Pipe-wrench. No. 1,372,241; Mar. 22; v. 284; p. 641.
- McGill, Charles E., Binghamton, N. Y. Spindle-retainer. No. 1,383,000; June 28; v. 287; p. 673.
- McGill, Daniel F., Portland, Oreg. Automobile-signal. No. 1,374,306; Apr. 12; v. 285; p. 220.
- McGill, Daniel F., Portland, Oreg. System of raising sunken ships. No. 1,393,894; Oct. 18.
- McGill, George F. (See Bruhn, M. C., and McGill.)
- McGill, George F., Chicago, Ill. Change-maker. No. 1,398,299; Nov. 29.
- McGill, George F., and M. C. Bruhn, Chicago, Ill. Portable change-maker. No. 1,385,382; July 26; v. 288; p. 645.
- McGill Manufacturing Company. (See Despard, Victor R., assignor.)
- McGill, Wisdom, Waco, Tex. Lock. No. 1,392,514; Oct. 4.
- McGinley, Frederick D., Pleasant Beach, N. Y. Car-replacer. No. 1,382,105; June 21; v. 287; p. 449.
- McGinley, William H., Pleasant Beach, N. Y. Car-replacer. No. 1,378,180; May 17; v. 286; p. 453.
- McGinn, Charles, Cleveland, Ohio. Advertising device. No. 1,383,828; July 5; v. 288; p. 118.
- McGinn, Francis W., Baltimore, Md. Mud-lug for automobile-wheels. No. 1,393,450; Oct. 11.
- McGinn, Philip F. (See Wagner, Henry J., assignor.)
- McGinness, Harry S. (See Childers, Walter M., assignor.)
- McGinnis, Daniel, St. Maries, Idaho. Jammer-hook. No. 1,383,649; July 5; v. 288; p. 81.
- McGinnis, Edmund J., et al. (See Warrington, William J., assignor.)
- McGirr, Theodore G., Springfield, Mass. Machine for wrapping and sealing articles. No. 1,370,980; Mar. 8; v. 284; p. 278.
- McGlothlen, Barton F., San Bernardino, Calif. Indicator. No. 1,380,227; May 31; v. 286; p. 988.
- McGlynn, Joseph B., assignor to The West Steel Casting Company, Cleveland, Ohio. Preparing steel for casting. No. 1,394,103; Oct. 18.
- McGogy, Donald H., Portland, Oreg. Automatic temperature-regulator for electrically-heated devices. No. 1,374,935; Apr. 19; v. 285; p. 404.
- McGogy, Donald H., Portland, Oreg. Danger-signal for railway-cars. No. 1,374,936; Apr. 19; v. 285; p. 404.
- McGorry, Emmett J., Mauch Chunk, Pa. Railway-car brake. No. 1,387,729; Aug. 16; v. 289; p. 475.
- McGovern, Daniel F., Montpelier, Vt. Polishing-wheel. (Reissue.) No. 15,245; Dec. 6.
- McGowan, Edmund J., et al. (See Schultenover, Isidore J., assignor.)
- McGowan, Edward, Mulberry, Kans., and P. Upham, Boston, Mass.; said Upham assignor of his entire right to Sullivan Machinery Company, Claremont, N. H. Material-handling apparatus. No. 1,389,888; Sept. 6; v. 290; p. 66.
- McGowan, Edward M., Toledo, Ohio. Postage-marking machine. No. 1,389,062; Aug. 30; v. 289; p. 850.
- McGowan, Frank M., Springfield, Ill. Clothes-hanger. No. 1,370,981; Mar. 8; v. 284; p. 278.
- McGowan, Frank R., Lowell, Mass. Gage. No. 1,280,818; June 7; v. 287; p. 95.
- McGowan, James W., Seattle, Wash. Baking-machine. No. 1,371,386; Mar. 15; v. 284; p. 420.
- McGowan, Warren W., W. A. Heller, and S. J. Tierney, Okmulgee, Okla. Combination-wrench. No. 1,386,345; Aug. 2; v. 289; p. 76.
- McGowin, Norman F. (See Archer, Charles B., assignor.)
- McGrath, Andrew F., New York, N. Y. Spring-wheel. No. 1,393,630; Oct. 11.
- McGrath, Harry N., San Francisco, Calif. Gun-firing device. No. 1,377,015; May 3; v. 286; p. 121.
- McGrath, Patrick J., and J. W. Halliwell, Brooklyn, N. Y. Game apparatus. No. 1,372,712; Mar. 29; v. 284; p. 772.
- McGrath, Thomas J., Schenectady, N. Y., assignor to General Electric Company. Packing. No. 1,383,001; June 28; v. 287; p. 673.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,365,420; Jan. 11; v. 282; p. 309.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,372,306; Mar. 22; v. 284; p. 654.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,374,937; Apr. 19; v. 285; p. 404.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,396,517; Nov. 8.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,396,518; Nov. 8.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,396,519; Nov. 8.
- McGrath, William L., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,401,170; Dec. 27.
- McGraw, Mrs. Catherine. (See Pfell, Charles J., assignor.)
- McGraw, Thomas H., Jr., Oakmont, Pa. Steam-separator. No. 1,393,298; Oct. 11.
- McGregor, Alexander G. (See Clark, H. A., Hill, and McGregor.)
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,366,194; Jan. 18; v. 282; p. 499.
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,366,195; Jan. 18; v. 282; p. 499.
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,369,253; Feb. 22; v. 283; p. 607.
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,369,254; Feb. 22; v. 283; p. 607.
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,370,330; Mar. 1; v. 284; p. 109.
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,372,151; Mar. 22; v. 284; p. 623.
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,372,152; Mar. 22; v. 284; p. 623.
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,372,153; Mar. 22; v. 284; p. 623.
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,372,154; Mar. 22; v. 284; p. 624.
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,372,155; Mar. 22; v. 284; p. 624.
- McGregor, Allan L., Chicago, Ill. Automobile-bumper. No. 1,372,156; Mar. 22; v. 284; p. 624.
- McGregor, Allan L., Chicago, Ill. Bumper-fitting. No. 1,372,157; Mar. 22; v. 284; p. 624.
- McGregor, Allan L., Chicago, Ill. Bumper-attaching fitting. No. 1,372,158; Mar. 22; v. 284; p. 624.
- McGregor, Allan L., Chicago, Ill. Bumper-attaching fitting. No. 1,372,159; Mar. 22; v. 284; p. 624.
- McGregor, Herbert O., Morgantown, W. Va. Combined tie and boltless rail-joint. No. 1,384,700; July 12; v. 288; p. 349.
- McGregor, Roy, Miami, Ariz. Can-holder. No. 1,387,422; Aug. 9; v. 289; p. 362.
- McGregory, Edward L. (See Wilcox, F. A., and McGregor.)
- McGrother, Joseph F., and J. S. Deen, Philadelphia, Pa. Automobile-light. No. 1,376,822; May 3; v. 286; p. 84.
- McGuckin, Henry J., New York, N. Y. Sanitary tub and sink trap. No. 1,378,181; May 17; v. 286; p. 454.
- McGuckin, Henry J., New York, N. Y. Smoking-pipe. No. 1,388,733; Aug. 23; v. 289; p. 729.
- McGuigan, Josiah W., and W. C. Roy, Dearborn, Mich. Valve seater and trimmer. No. 1,386,640; Aug. 9; v. 289; p. 205.
- McGuinness, Archie T., San Francisco, Calif. Artificial tooth. No. 1,382,304; June 21; v. 287; p. 486.
- McGuire, Albert W., Carmel, Me. Grab-hook. No. 1,391,746; Sept. 27; v. 290; p. 668.



## Alphabetical list of patentees—Continued.

- McGuire, Charles. (See Lynch, J., and McGuire.)  
 McGuire, Frederick T. (See Ander, A., and McGuire.)  
 McGuire, John J., Yonkers, N. Y. Door for automobiles. No. 1,396,448; Nov. 8.  
 McGuire, Lee R., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Rubber conveying and soapstoning apparatus. No. 1,369,932; Mar. 1; v. 284; p. 34.  
 McGuire, Lee R., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Rubber extruding, cooling, and cutting apparatus. No. 1,382,207; June 21; v. 287; p. 467.  
 McGuire, Ottis M., Bridgeport, Nebr. Wheel-holder for railway-cars. No. 1,394,318; Oct. 18.  
 McGuire, Patrick, Superior, Wis. Toilet article. No. 1,367,489; Feb. 1; v. 283; p. 121.  
 McGuire, William D., Jr., New York, N. Y. Puzzle of the movies. No. 1,379,871; May 31; v. 286; p. 921.  
 McGurn, Matthew S., assignor to Poole Bros., Chicago, Ill. Carton. No. 1,383,735; July 5; v. 288; p. 99.  
 McHardy, Robert, Toronto, Ontario, Canada. Opener for milk-bottles and the like. No. 1,368,406; Feb. 15; v. 283; p. 402.  
 McHarg, Leslie, Freeport, N. Y. Pier-door. No. 1,369,425; Feb. 22; v. 283; p. 640.  
 McHugh, James B., Zachary, La. Backband. No. 1,372,526; Mar. 22; v. 284; p. 695.  
 McHugh, Thaddeus J., and Lewis A. Williams, assignors to Gibson Mandolin-Guitar Co., Kalamazoo, Mich. Bridge for stringed musical instruments. No. 1,365,839; Jan. 18; v. 282; p. 430.  
 McIlvried, Edwin J., Lakewood, Ohio. Piston-rod and making said rod. No. 1,383,002; June 28; v. 287; p. 674.  
 McIlwain, Herbert A., Norristown, Pa., C. J. Walton, Collingswood, N. J., and J. W. Wright, Philadelphia, Pa., assignors to American Telephone and Telegraph Company. Collapsible wire reel. No. 1,365,710; Jan. 18; v. 282; p. 404.  
 McInerney, John J. (See Goddard, John T., assignor.)  
 McInerney, Benjamin, Council Bluffs, Iowa. Electromagnetic switch. No. 1,364,944; Jan. 11; v. 282; p. 217.  
 McInerney, Benjamin, Council Bluffs, Iowa, assignor to Westinghouse Electric & Manufacturing Company. Electromagnet. No. 1,365,332; Jan. 11; v. 282; p. 292.  
 McInnis, Mathew R., Minneapolis, Minn. Toy aeroplane or glider. No. 1,400,224; Dec. 13.  
 McIntosh, Burnett, Brooklyn, N. Y., assignor, by mesne assignments, to F. A. Hall & Sons. Davenport-bed. No. 1,367,067; Feb. 1; v. 283; p. 37.  
 McIntosh, James A. (See Brown, Frank D., assignor.)  
 McIntosh & Seymour Corporation. (See Lucke, Herbert R., assignor.)  
 McIntosh, Thomas J., Dalzell, S. C. Reversible fork and rake. No. 1,393,299; Oct. 11.  
 McIntosh, William J., Galveston, Tex. Composition for waterproofing fabrics, leather, and the like. No. 1,364,567; Jan. 4; v. 282; p. 100.  
 McIntyre, Albert A., Bonners Ferry, Idaho. Making a die. No. 1,398,196; Nov. 22.  
 McIntyre, Allan. (See Williams, F. P., and McIntyre.)  
 McIntyre, Allen H., assignor to Skinner Machinery Company, Dunedin, Fla. Fruit-sizing machine. No. 1,385,218; July 19; v. 288; p. 537.  
 McIntyre, Chauncey W. (See Fawkes, C. E., and McIntyre.)  
 McIntyre, Elmer E., Pittsburgh, Pa. Interchangeable hub for motor-vehicles. No. 1,375,223; Apr. 19; v. 285; p. 460.  
 McIntyre, John, Portobello, assignor of one-half to J. Milne and Son Limited, Edinburgh, Scotland. Cylinder drying-machine. No. 1,383,553; July 5; v. 288; p. 61.  
 McIntyre, Maurice T., Brooklyn, N. Y. Direction-indicator. No. 1,385,219; July 19; v. 288; p. 537.  
 McIntyre, Sydney S., Sedro Woolley, Wash. Winding-engine. No. 1,381,209; June 14; v. 287; p. 222.  
 McIver, William K., Elgin, Ill., assignor, by mesne assignments, to Stewart-Warner Speedometer Corporation, Chicago, Ill. Lighting system and means for controlling the same. No. 1,399,505; Dec. 6.  
 McKallip, John C., Houston, Tex. Gasolene-measuring device. No. 1,366,814; Jan. 25; v. 282; p. 666.  
 McKallip, John C., Houston, Tex. Measuring vessel. No. 1,382,660; June 28; v. 287; p. 609.  
 McKam, Lawrence G., Detroit, Mich. Railway-crossing. No. 1,372,889; Mar. 29; v. 284; p. 808.  
 McKay, Augusta P., assignor to McKay Disk Plow Co., Rome, Ga. Disk plow and subsoiler. No. 1,397,434; Nov. 15.  
 McKay Disk Plow Co. (See McKay, Augusta P., assignor.)  
 McKay, Edward E. (See Shamblin, H. C., and McKay.)  
 McKay, Eugene H., assignor to Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Manufacture of cereal food. No. 1,388,873; Aug. 30; v. 289; p. 811.  
 McKay, Henry N., San Francisco, Calif., assignor to Remington Typewriter Company, Iliou, N. Y. Typewriting-machine. No. 1,394,632; Oct. 25.  
 McKay, John A., New York, N. Y., assignor to General Electric Company. Electrical fitting connection. No. 1,378,477; May 17; v. 286; p. 510.  
 McKay, John A., New York, N. Y., assignor to General Electric Company. Electrical fitting connection. No. 1,386,884; Aug. 9; v. 289; p. 255.  
 McKay, John J. (See Miess, C. G., and McKay.)  
 McKay, Peter M., London, England. Artificial hand. No. 1,390,802; Sept. 13; v. 290; p. 341.  
 McKay, Robert, Newlands, Glasgow, Scotland. Device for setting up forms for contents-bills, posters, and the like. No. 1,370,982; Mar. 8; v. 284; p. 278.  
 McKay, Robert J., and F. R. Cooper, Pittsburgh, assignors to The Breakless Staybolt Company. McKees Rocks, Pa. Boiler-brace. No. 1,389,889; Sept. 6; v. 290; p. 67.  
 McKay, Walter D., et al. (See Thomas, Thomas D., assignor.)  
 McKay, William F., La Grange, Ill. Fibrous sheet and process for making same. No. 1,365,711; Jan. 18; v. 282; p. 405.  
 McKay, William T. (See Igo, J. H., and McKay.)  
 McKean, Donald J. (See Woolley, H. M., and McKean.)  
 McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Slub-catcher. No. 1,391,331; Sept. 20; v. 290; p. 512.  
 McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Cop-cone. No. 1,391,961; Sept. 27; v. 290; p. 712.  
 McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Device for aiding, cleaning, and tensioning yarn. No. 1,392,515; Oct. 4.  
 McKean, Robert C., Tampa, Fla. Machine for unloading and counting coconuts or the like articles. No. 1,382,522; June 21; v. 287; p. 528.  
 McKechnie, Alexander, Birmingham, England. Separating and recovering nickel. No. 1,377,713; May 10; v. 286; p. 310.  
 McKechnie, Alexander, Birmingham, England. Separating nickel. No. 1,381,720; June 14; v. 287; p. 318.  
 McKee, Arthur G. (See Geesman, W. H., and McKee.)  
 McKee, Arthur G., and Company, et al. (See Geesman, Wilbur H., assignor.)  
 McKee, Arthur G., Cleveland, Ohio. Apparatus for cleaning gases. No. 1,398,598; Nov. 29.  
 McKee Glass Company. (See Smith, Maurice A., assignor.)  
 McKee Glass Company. (See Sunder, Charles A., assignor.)  
 McKee, James M., New Bloomfield, Pa. Lock. No. 1,382,924; June 28; v. 287; p. 658.  
 McKee, Neal T., Yonkers, assignor to The Superheater Company, New York, N. Y. Superheater. No. 1,395,131; Oct. 25.  
 McKee, Ralph H., New York, N. Y. Recovering precious metals from solutions. No. 1,372,971; Mar. 29; v. 284; p. 825.  
 McKee, Ralph H., New York, N. Y. Extracting oils, fats, and fatty acids. No. 1,376,211; Apr. 26; v. 285; p. 680.  
 McKee, Ralph H., New York, N. Y. Producing pectin. No. 1,380,572; June 7; v. 287; p. 47.  
 McKee, Ralph H., New York, N. Y. Separating sulfur dioxide from gas mixtures. No. 1,387,557; Aug. 16; v. 289; p. 501.  
 McKee, Ralph H., New York, N. Y. Oxidizing gases. No. 1,391,332; Sept. 20; v. 290; p. 512.  
 McKee, Ralph H., New York, N. Y. Making ferro-zirconium. No. 1,401,265; Dec. 27.  
 McKee, Ralph H., New York, N. Y. Alloying zirconium and iron. No. 1,401,266; Dec. 27.  
 McKee, Ralph H., New York, N. Y. Alloying zirconium and iron. No. 1,401,267; Dec. 27.  
 McKee, Stillman W., Los Angeles, Calif. Follow-up index or filing system. No. 1,369,255; Feb. 22; v. 283; p. 607.  
 McKee, Thomas, Portland, Oreg. Perforated and other sheet-music. No. 1,398,107; Nov. 22.  
 McKee, Walter S., assignor to American Manganese Steel Company, Chicago, Ill. Ball-mill shell and plate. No. 1,372,972; Mar. 29; v. 284; p. 825.  
 McKee, Walter S., Chicago, Ill., assignor to American Manganese Steel Company, Augusta, Me. Dipper-tooth. No. 1,395,048; Oct. 25.  
 McKeig, Harold, Harlan, Iowa. Replanting attachment for cultivators. No. 1,367,916; Feb. 8; v. 283; p. 260.  
 McKellar, Angus. (See Seymour, J. C., and McKellar.)  
 McKellar, Angus, Salt Lake City, Utah. Visible-measure dispensing apparatus. No. 1,383,223; June 28; v. 287; p. 715.  
 McKellar, Archibald D., Chicago, Ill. Sign. No. 1,384,911; July 19; v. 288; p. 472.  
 McKellar, William D., Salt Lake City, Utah. Apparatus for visibly vending liquids. No. 1,377,085; May 3; v. 286; p. 135.  
 McKelvey, John H., Kirkwood, and C. F. Ryan, St. Louis, Mo. Making plate-glass. No. 1,397,287; Nov. 15.  
 McKelvey, Knox S. (See McKelvey, William J. and K. S.)  
 McKelvey, Louis F., and J. A. Brandenburger, Indianapolis, Ind. Photo-film clip. No. 1,392,516; Oct. 4.  
 McKelvey, William J. and K. S., Hetherton, Mich. Power attachment for automobiles. No. 1,364,773; Jan. 4; v. 282; p. 140.  
 McKenna, Frank E., Lockport, N. Y. Casting ingots. No. 1,387,792; Aug. 16; v. 289; p. 488.  
 McKenna, George F., Nitro, W. Va. Metal cuff for automobile-wheels. No. 1,368,952; Feb. 15; v. 283; p. 509.  
 McKenna, Philip M., Congress Heights, D. C. Alloy steel. No. 1,389,679; Sept. 6; v. 290; p. 24.



- McKenna, Philip M., Congress Heights, D. C. Alloy steel. No. 1,389,680; Sept. 6; v. 290; p. 24.
- McKenna, T. L. (See Shaw, O. B., and McKenna.)
- McKenzie, Joseph H., Beaumont, Tex. Horse-boot. No. 1,395,689; Nov. 1.
- McKenzie-Marty, Edward C., and F. A. Howard, Elizabeth, assignors to Standard Oil Company, Bayonne, N. J. Priming device. No. 1,394,921; Oct. 25.
- McKenzie, Peter H., Chicago, Ill. Chain-grate construction. No. 1,376,449; May 3; v. 286; p. 14.
- McKenzie, Philip A., Houston, Tex. Bridge construction. No. 1,382,106; June 21; v. 287; p. 449.
- McKenzie, William H., Oakland, Calif. Valve-testing machine. No. 1,373,824; Apr. 5; v. 285; p. 87.
- McKeone, John J., Washington, Iowa. Flue-block. No. 1,375,925; Apr. 26; v. 285; p. 626.
- McKeown, John C., Chicago, Ill. Lattice-truss. No. 1,372,078; Mar. 22; v. 284; p. 609.
- McKeown, Samuel C., East Orange, N. J. Ruler T-square. No. 1,376,559; May 3; v. 286; p. 34.
- McKeown, Samuel C., assignor to Splittorf Electrical Company, Newark, N. J. Electro-circuit-controlling device. No. 1,368,517; Feb. 15; v. 283; p. 425.
- McKeown, Samuel C., East Orange, assignor to Splittorf Electrical Company, Newark, N. J. Means for mounting current-distributor blocks. No. 1,371,254; Mar. 15; v. 284; p. 393.
- McKeown, Samuel C., East Orange, assignor to Splittorf Electrical Company, Newark, N. J. Ignition-dynamo. No. 1,382,107; June 21; v. 287; p. 449.
- McKeown, Samuel C., East Orange, assignor to Splittorf Electrical Company, Newark, N. J. Connecting means for induction-coils used in radio and ignition systems. No. 1,385,566; July 26; v. 288; p. 683.
- McKeown, Samuel C., assignor to Splittorf Electrical Company, Newark, N. J. Starting mechanism for magnetos. No. 1,389,890; Sept. 6; v. 290; p. 67.
- McKeown, Samuel C., assignor to Splittorf Electrical Company, Newark, N. J. Electric-circuit-controlling device. No. 1,394,032; Oct. 18.
- McKesy, Walter W., Houston, Tex. Signal for vehicles. No. 1,390,573; Sept. 13; v. 290; p. 295.
- McKibben, William J., Steubenville, Ohio. Train-controlling mechanism. No. 1,389,063; Aug. 30; v. 289; p. 860.
- McKibbin, John B., Crafton, assignor of one-fourth to M. I. Sugden and one-fourth to I. E. Sugden, Pittsburgh, Pa. Controlling the temperature of rolling-mills. No. 1,370,331; Mar. 1; v. 284; p. 109.
- McKibbin, John B., Crafton, assignor of one-fourth to M. I. Sugden, and one-fourth to I. E. Sugden, Pittsburgh, Pa. Apparatus for controlling the temperature of rolling-mills. No. 1,370,332; Mar. 1; v. 284; p. 109.
- McKiernan-Terry Drill Company. (See Ayer, William T., assignor.)
- McKiernan-Terry Drill Company. (See Riker, Malcolm D., assignor.)
- McKim, Alexander, deceased, by K. McKim, administratrix, Wilkensburg, Pa. Nut. No. 1,393,803; Oct. 18.
- McKim, Katherine, administratrix. (See McKim, Alexander.)
- McKinlay, Edward S., Denver, Colo. Cartridge-explosive. No. 1,379,637; May 31; v. 286; p. 877.
- McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Seat construction for vehicles. No. 1,379,771; May 31; v. 286; p. 901.
- McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Vehicle-body. No. 1,383,412; July 5; v. 288; p. 32.
- McKinley, Charles W., assignor to The Willys-Overland Co., Toledo, Ohio. Spring suspension for vehicles. No. 1,390,265; Sept. 13; v. 290; p. 253.
- McKinley, Milton H., Seattle, Wash. Clothesline. No. 1,389,681; Sept. 6; v. 290; p. 24.
- McKinley, William. (See Reese Richard E., assignor.)
- McKinney, Burr. (See Cole, I. M., and McKinney.)
- McKinney, Francis B., Baldwin township, Allegheny county, assignor of one-half to J. H. Poague, Pittsburgh, Pa. Device for laying out structural work. No. 1,367,612; Feb. 8; v. 283; p. 202.
- McKinney, Robert F. (See Perkins, L. C., and McKinney.)
- McKinney, William P., Tacoma, Wash. Safety-hook. No. 1,367,270; Feb. 1; v. 283; p. 77.
- McKinnie, Earle C., assignor to National X-Ray Reflector Co., Chicago, Ill. Shade-holder for lighting-fixtures. No. 1,382,661; June 28; v. 287; p. 609.
- McKinnon, Allan, Holyoke, Mass. Lubricating means for trolley-wheels. No. 1,375,525; Apr. 19; v. 285; p. 517.
- McKinnon Dash Company. (See Drumb, John, assignor.)
- McKinnon, William A. (See Hoffmann, C. O., and McKinnon.)
- McKinny, George W., Chicago, Ill. Vehicle lock and brake. No. 1,371,317; Mar. 15; v. 284; p. 405.
- McKinstry, Frank Y., Chicago, Ill. Overhead and underground storage for automobiles. No. 1,394,999; Oct. 25.
- McKiraan, Samuel, Golden, assignor of two-thirds to F. A. Fuller, Denver, Colo. Extraction of potassium from the natural substances in which it occurs. No. 1,388,276; Aug. 23; v. 289; p. 640.
- McKissick, Edward K., Oklahoma, Okla. Low-supply alarm for gasoline-tanks. No. 1,395,132; Oct. 25.
- McKissick, William H., assignor of one-half to D. W. Schafer, Tulsa, Okla. Screw-on attachment. No. 1,372,031; Mar. 22; v. 284; p. 601.
- McKissick, William H., Tulsa, Okla., assignor of one-half to Dunn Manufacturing Company, Oxnard, Calif. Tubing catcher for oil-wells or the like. (Reissue.) No. 15,075; Mar. 29; v. 284; p. 908.
- McKissick, William H., Tulsa, Okla., assignor of one-half to Dunn Manufacturing Company, Oxnard, Calif. Tubing catcher or holder. No. 1,374,307; Apr. 12; v. 285; p. 220.
- McKnight, William M., Houston, Tex. Strain-jacket for telephone-poles. No. 1,369,119; Feb. 22; v. 283; p. 581.
- McKone, Leo J., assignor to W. A. Casey, Kansas City, Mo. Valve remover and lifter for internal-combustion engines, &c. No. 1,397,768; Nov. 22.
- McKoy, Edwin A., and G. D. Moore, New Orleans, La. Disintegrating and conserving mechanism. (Reissue.) No. 15,165; July 26; v. 288; p. 766.
- McLachlan, John, East Elmhurst, N. Y. Cam-shaft remover. No. 1,395,587; Nov. 1.
- McLain, Charles A., and E. M. Bothne, Minneapolis, Minn. Educational block. No. 1,377,261; May 10; v. 286; p. 224.
- McLain, Harry E. (See Broad, William, assignor.)
- McLain, Robert M., and W. M. Quick, Huntsville, Ala., assignors to the Quick-McLain Machine Gun Company. Machine-gun. No. 1,375,653; Apr. 19; v. 285; p. 542.
- McLain, Robert H., Schenectady, N. Y., assignor to General Electric Company. Motor control for hoists. No. 1,386,885; Aug. 9; v. 289; p. 255.
- McLain, Robert H., Schenectady, N. Y., assignor to General Electric Company. Motor-control system. No. 1,394,922; Oct. 25.
- McLain, Thomas E., and C. H. Sharp, Eldorado, Kans. Direction-indicator for vehicles. No. 1,365,259; Jan. 11; v. 282; p. 277.
- McLanahan, Martin H., Philadelphia, Pa. Train-shed. No. 1,372,307; Mar. 22; v. 284; p. 654.
- McLane, Joseph A., assignor to The Armored Rubber Company, Morgantown, W. Va. Method and means for applying legends or designs to tires. No. 1,371,501; Mar. 15; v. 284; p. 443.
- McLaren, Alexander, Brooklyn, N. Y. Signaling device for automobiles. No. 1,399,136; Dec. 6.
- McLaren, Henry, assignor of one-half to J. & H. McLaren, Limited, Leeds, England. Cable-reciprocating apparatus. No. 1,395,850; Nov. 1.
- McLaren, J. & H., Limited. (See McLaren, Henry, assignor.)
- McLaren, James W., Marietta, Ohio. Road-making machinery. No. 1,369,977; Mar. 1; v. 284; p. 42.
- McLaren, Jessie R., Massena, Iowa. Locket. No. 1,377,902; May 10; v. 286; p. 348.
- McLaren-Sleight Corporation. (See McLaren, William E., assignor.)
- McLaren, William E., assignor, by mesne assignments, to McLaren-Sleight Corporation, Chicago, Ill. Convertible vehicle. No. 1,370,604; Mar. 8; v. 284; p. 206.
- McLaughlin, Frank, Toronto, Ontario, Canada. Fountain lather-brush. No. 1,375,404; Apr. 19; v. 285; p. 494.
- McLaughlin, Leo V., Chester, Pa. Pulley attachment for automobiles. No. 1,378,703; May 17; v. 286; p. 554.
- McLaughlin, Michael J., St. Louis, Mo. Making ornamental plaques. No. 1,382,925; June 28; v. 287; p. 658.
- McLaughlin, Patrick, Dover, N. H. Heating system. No. 1,378,592; May 17; v. 286; p. 532.
- McLaughlin, Wharton B., New York, N. Y. Producing foodstuffs. No. 1,380,489; June 7; v. 287; p. 31.
- McLaughlin, William H., assignor to C. S. Chase, Hartford, Conn. Traction device. No. 1,391,262; Sept. 20; v. 290; p. 498.
- McLaughlin, William H., assignor to C. S. Chase, Hartford, Conn. Traction device. No. 1,391,263; Sept. 20; v. 290; p. 498.
- McLaughlin, William P., Bristol, R. I., assignor to National India Rubber Company. Shoe-last. No. 1,389,451; Aug. 30; v. 289; p. 927.
- McLean, Charles S. (See Powell, T. B., and McLean.)
- McLean, Charles W., Shavertown, N. Y. Milk-cooler. No. 1,398,787; Nov. 29.
- McLean, Donald W., Glencoe, Ontario, Canada. Generator. No. 1,385,257; July 19; v. 288; p. 544.
- McLean, Edward J., San Francisco, and S. W. McGavran, Burlingame, Calif. Atomizing and spraying device. No. 1,395,965; Nov. 1.
- McLean, Francis B., Ocean Grove, N. J. Valve-operating mechanism. No. 1,395,851; Nov. 1.
- McLean, George W., and E. J. Shur, New Orleans, La. Checking device. No. 1,383,834; July 5; v. 288; p. 120.
- McLean, Hilliard N. A., et al. (See Todd, Samuel J., assignor.)
- McLean, John. (See McClelland, H. R., and McLean.)
- McLean, Marrs, Beaumont, Tex. Well-screen. No. 1,367,406; Feb. 1; v. 283; p. 104.
- McLean, Philip S., Bloomfield, N. J., assignor, by mesne assignments, to Benjamin Electric Manufacturing Company, Chicago, Ill. Swivel attachment-plug. No. 1,398,077; Nov. 22.
- McLean, Robert J. (See Telford, W., and McLean.)
- McLellan, Basil G. (See Fryer, F. G., and McLellan.)
- McLellan, Samuel T. (See Thayer, H. G., and McLellan.)



*Alphabetical list of patentees—Continued.*

- McLendon, Alexander M. (See Hildreth, A. L., and McLendon.)
- McLeod, Alexander T. (See McLeod, Angus and A. T.)
- McLeod, Angus and A. T., Chicago, Ill. Automatic scale. No. 1,386,790; Aug. 9; v. 289; p. 235.
- McLeod, Edison, Banta, Calif. Tightener-yoke for friction-clutch segments. No. 1,393,895; Oct. 18.
- McLeod, Hector N., Wellington, New Zealand. Carbonizing apparatus. No. 1,375,714; Apr. 26; v. 285; p. 586.
- McLeod, John A. (See Scalfaro, F. A., and McLeod.)
- McLeod, John A., and E. A. Dauter, Chicago, Ill. Adjustable jar-cover opener. No. 1,394,033; Oct. 18.
- McLeod, John W., New York, N. Y. Game apparatus. No. 1,365,712; Jan. 18; v. 282; p. 405.
- McLeod, Kenneth K., St. Paul, assignor of one-half to W. Corey, Minneapolis, Minn. Stop device for use with change-speed pedals of automobiles. No. 1,381,721; June 14; v. 287; p. 318.
- McLeod, Norman J., and C. F. Rainsford, Adelaide, South Australia, Australia. Collapsible crate or packing-case. No. 1,378,614; May 17; v. 286; p. 536.
- McLeod, Robert, Auckland, New Zealand. Lubricating compound. No. 1,387,437; Aug. 9; v. 289; p. 355.
- McLeroth, Thomas B., London, England. Air-tube for pneumatic tires and mold therefor. No. 1,379,929; May 31; v. 286; p. 932.
- McMahan, Charles S., Orlando, Fla. Game apparatus. No. 1,383,736; July 5; v. 288; p. 100.
- McMahan, William W., Detroit, Mich., assignor to Morgan & Wright. Apparatus for compressing carbon-black and other pulverulent materials. No. 1,372,181; Mar. 22; v. 284; p. 629.
- McMahon, Alexander P., Chicago, Ill. Curtain-stretcher. No. 1,397,533; Nov. 22.
- McMahon, Francis D. (See Lake, J. L., and McMahon.)
- McMahon, Harry E., Toronto, Ontario, Canada. Camera. No. 1,369,753; Feb. 22; v. 283; p. 705.
- McMahon, James T. (See Lapham, Jared S., assignor.)
- McMahon, Joseph P., New York, N. Y. Electric hair-singer. No. 1,366,196; Jan. 18; v. 282; p. 499.
- McMahon, Nora E., Columbia, Tenn. Indicating-plate. No. 1,384,912; July 19; v. 288; p. 473.
- McMahon, Patrick S. (See Bozung, J. A., and McMahon.)
- McMahon, William F., Stratford, Conn. Torpedo-tube and torpedo-firing mechanism. No. 1,370,467; Mar. 1; v. 284; p. 135.
- McMahon, William F., Johnstown, Pa. Signal-lamp. No. 1,380,155; May 31; v. 286; p. 975.
- McManamen, John J., Mitchell, S. D., C. F. Smith, and A. L. Munro, assignors to Smith Engineering Works, Milwaukee, Wis. Sand and gravel washer. No. 1,392,779; Oct. 4.
- McManis, John V., Kirksville, Mo. Treatment-table. No. 1,371,502; Mar. 15; v. 284; p. 443.
- McManis, John V., Dayton, and F. Koenigkramer; said Koenigkramer assignor to said McManis, Cincinnati, Ohio. Treatment-table. No. 1,390,301; Sept. 13; v. 290; p. 241.
- McManus, Edward. (See Montgomery, R. L., and McManus.)
- McManus, Edward L., Jr. (See Berger, Fred, assignor.)
- McManus, Joseph C., Jacksonville, Fla. Pedal-lock. No. 1,395,966; Nov. 1.
- McManus, William F., Oklahoma, Okla. Game. No. 1,391,333; Sept. 20; v. 290; p. 512.
- McMaster, George E., Bellingham, Wash. Moving sign device. No. 1,365,520; Jan. 11; v. 282; p. 328.
- McMaster, George E., Bellingham, Wash. Advertising device. No. 1,383,413; July 5; v. 288; p. 33.
- McMaster, Frederick K., Birriwa, near Mudge, New South Wales, Australia. Piston-ring. No. 1,398,439; Nov. 29.
- McMasters, George L., Iuka, Miss. Nut-lock. No. 1,364,884; Jan. 11; v. 282; p. 205.
- McMeans, William, West Liberty, Iowa. Mausoleum. No. 1,395,852; Nov. 1.
- McMeekan, Irving. (See Carmody, Harold J., assignor.)
- McMichael, Clarence R., and B. W. Wall, Patmos, Ark. Railway-rail brace. No. 1,388,734; Aug. 23; v. 289; p. 729.
- McMichael, James D., assignor to American Wood Working Machinery Company, Rochester, N. Y. Pressure-guard for woodworking-machines. No. 1,399,137; Dec. 6.
- McMichael, Robert C., Bicknell, Calif. Rod-elevator. No. 1,367,273; Feb. 1; v. 283; p. 78.
- McMillan, Alexander, Princeton, N. J. Flying target. No. 1,368,176; Feb. 8; v. 283; p. 310.
- McMillan, John A. (See Easter, W. Frank, assignor.)
- McMillan, John L., Syracuse, N. Y. Filing device. No. 1,382,523; June 21; v. 287; p. 528.
- McMillan, John R., assignor to Niagara Alkali Company, Niagara Falls, N. Y. Making sodium hypochlorite. No. 1,383,224; June 28; v. 287; p. 716.
- McMillan, Levi, Wilmington, N. C. Shoe-heel. No. 1,371,040; Mar. 8; v. 284; p. 289.
- McMillan, Neal, Ogden, Utah. Shade for headlights. No. 1,381,482; June 14; v. 287; p. 271.
- McMillan, Samuel D., Lexington, N. C. Check and ticket stamp. No. 1,371,798; Mar. 15; v. 284; p. 500.
- McMillan, John P., Humble, Tex. Fishing-tool. No. 1,392,650; Oct. 4.
- McMinn, Ezekiel W., Richmond, Va. Tow-bar. No. 1,375,056; Apr. 19; v. 285; p. 428.
- McMonegal, William F., Hazleton, Pa. Exterior tire-armor. No. 1,373,342; Mar. 29; v. 284; p. 898.
- McMonegal, William F., Hazleton, Pa. Shovel-tooth. No. 1,384,701; July 12; v. 288; p. 350.
- McMonigal, Lloyd E., McCartney, Pa. Bee-trap. No. 1,371,318; Mar. 15; v. 284; p. 406.
- McMullen, Allen, Kenwood, assignor to Oneida Community, Limited, Oneida, N. Y. Jaw-trap. No. 1,390,210; Sept. 6; v. 290; p. 130.
- McMullen, Charles. (See Miller, A. G., and McMullen.)
- McMullen, Robert B. (See Lukens, W. R., and Gallagher, assignors.)
- McMullen, Thomas D., East Cleveland, Ohio. Steering-wheel. No. 1,378,478; May 17; v. 286; p. 510.
- McMullin, Joseph B., assignor to Western Manufacturing Co., Oskaloosa, Iowa. Hose-reel. No. 1,389,314; Aug. 30; v. 289; p. 900.
- McMunn, Alexander, Philadelphia, Pa. Warping-mill apparatus. No. 1,387,858; Aug. 16; v. 289; p. 501.
- McMurdie, Francis, Kalamazoo, Mich. Blast-gate. No. 1,384,204; July 12; v. 288; p. 245.
- McMurtrie, Adnah, New York, N. Y. Pushing. No. 1,391,396; Sept. 20; v. 290; p. 525.
- McNab, Alexander, Bridgeport, Conn. Direction indicating and registering mechanism. No. 1,369,682; Feb. 22; v. 283; p. 690.
- McNab & Harlin Mfg. Co. (See Smith, James C., assignor.)
- McNab, Malcomb B., Omaha, Nebr. Newspaper-packaging means. No. 1,369,448; Feb. 22; v. 283; p. 644.
- McNabb, Alexander, Bridgeport, Conn. Anchor. No. 1,385,921; July 26; v. 288; p. 755.
- McNabb, Ernst W., assignor to United Harrow Mfg. Co., Inc., Watertown, Tenn. Harrow. No. 1,397,104; Nov. 15.
- McNair, Robert, et al. (See Thompson, Edward C. and W. H., assignors.)
- McNairy, Jacob W., Lynn, Mass., assignor to General Electric Company. Flow-meter. No. 1,373,899; Apr. 5; v. 285; p. 101.
- McNally, James T., Chicago, Ill. Removable bulkhead. No. 1,401,419; Dec. 27.
- McNally, Leo F., Brooklyn, N. Y., assignor to D. W. Pye, Red Bank, N. J. Latch. No. 1,385,632; July 26; v. 288; p. 697.
- McNally, Stanley L. and J. D. Wilson, Scranton, Pa. Expanding device for pistons and plungers. No. 1,398,873; Nov. 29.
- McNally, Thomas and W. S. Orr, assignors to The Central Steel Company, Massillon, Ohio. Hot top for ingot-molds. No. 1,398,874; Nov. 29.
- McNamara, Charles E., Minneapolis, Minn. Typewriting-machine. No. 1,395,049; Oct. 25.
- McNamara, John, Millbrae, Calif. Agricultural implement. No. 1,364,568; Jan. 4; v. 282; p. 100.
- McNames, William, Aberdeen, S. D. Automobile-check. No. 1,398,440; Nov. 29.
- McNary, James E., U. S. Army. Pack carrier for shells and projectors. No. 1,380,994; June 7; v. 287; p. 129.
- McNaughton, Hart H., Maryville, Tenn. Camera. No. 1,381,722; June 14; v. 287; p. 318.
- McNaughton, John, New York, N. Y. Mop. No. 1,391,132; Sept. 20; v. 290; p. 471.
- McNaughton, William W., Billings, Mont. Valve-lifting device. No. 1,384,535; July 12; v. 288; p. 314.
- McNaull, Mrs. Macie K. (See McNaull, William D., assignor.)
- McNaull, William D., assignor to Mrs. Macie K. McNaull, Toledo, Ohio. Vehicle-tire. No. 1,392,953; Oct. 11.
- McNeal, Annie R., Norfolk, Va. Typewriter attachment. No. 1,368,814; Feb. 15; v. 283; p. 482.
- McNeal, Charles A., assignor of one-half to F. E. Fuller, Columbus, Ohio. Headlight-reflector. No. 1,394,319; Oct. 18.
- McNeary, Thomas J., New York, N. Y. Inflatable belt. No. 1,368,566; Feb. 15; v. 283; p. 434.
- McNeely, Carl, assignor of one-third to C. L. Ayres, Polk, Nebr. Radiator. No. 1,374,021; Apr. 5; v. 285; p. 125.
- McNeil, Charles, Govan, Scotland. Sugar-cane mill. No. 1,365,521; Jan. 11; v. 282; p. 328.
- McNeil, Chester, assignor to Union Special Machine Company, Chicago, Ill. Retainer for sewing-machines. No. 1,365,003; Jan. 11; v. 282; p. 229.
- McNeil, Chester, assignor to Union Special Machine Company, Chicago, Ill. Concealed-stitched binding for sewed articles. No. 1,374,211; Apr. 12; v. 285; p. 202.
- McNeil, Claude P. (See Rogers, F. M., and McNeil.)
- McNeil, James E., Los Angeles, Calif. Railway-joint expansion-jack. No. 1,378,479; May 17; v. 286; p. 510.
- McNeil, James W., Newark, N. J. Sheet-metal barrel. No. 1,394,923; Oct. 25.
- McNeil, John F., Clifton, Ariz. Concentrating-table. No. 1,368,815; Feb. 15; v. 283; p. 483.
- McNeill, Aaron. (See Ricke, George H., assignor.)
- McNeill, Alan M., and W. J. Abbott, Auckland, New Zealand. Binder-case for document and like files. No. 1,397,645; Nov. 22.
- McNeill, Hamilcar H. (See Denham, William L., assignor.)
- McNeill, Malcolm J., Seattle, Wash. Writing-pad for the blind. No. 1,372,360; Mar. 22; v. 284; p. 664.
- McNeely, Marion G., Alpaugh, Calif. Clothes hanger and presser. No. 1,390,054; Sept. 6; v. 290; p. 100.



*Alphabetical list of patentees—Continued.*

- McNeill, Ralph, Newark, N. J. Lightning-arrester. No. 1,382,795; June 28; v. 287; p. 635.
- McNeill, William M., assignor of one-half to B. M. Sheffey, Rosiclare, Ill. Soot-blower. No. 1,373,750; Apr. 5; v. 285; p. 71.
- McNeill, William M., Logansport, Ind., assignor of one-half to Billie M. Sheffey, Rosiclare, Ill. Soot-blower. (Reissue.) No. 15,185; Aug. 30; v. 289; p. 951.
- McNerney, James, Buffalo, assignor, by mesne assignments, to Swan & Finch Company, New York, N. Y. Measuring and filing machine. No. 1,381,926; June 21; v. 287; p. 416.
- McNerney, Mathew F., Goldfield, Colo. Automatic boiler-feed. No. 1,395,133; Oct. 25.
- McNicholas, Hiram, Connell, Wash. Grinding-tool. No. 1,370,141; Mar. 1; v. 284; p. 73.
- McNicoll, William W. (See New, Edward A., assignor.)
- McNulty, Charlie A., assignor to G. A. Bonge, Powderly, Tex. Pipe-painting machine. No. 1,368,816; Feb. 15; v. 283; p. 483.
- McNulty, Daniel H., Jr., assignor of one-half to W. Prentiss, Jr., Chicago, Ill. Coating-machine. No. 1,374,938; Apr. 19; v. 285; p. 404.
- McNulty, James E., Los Angeles, Calif. Ice-cream-dispensing device. No. 1,364,569; Jan. 4; v. 282; p. 101.
- McNutt, Lawrence E., assignor to The Allen Filter Company, Toledo, Ohio. Dispensing-faucet. No. 1,393,300; Oct. 11.
- McPartland, Walter J., Cambridge, Mass. Armrest. No. 1,378,704; May 17; v. 286; p. 554.
- McPeck, Edison, Sardis, Ohio. Piston-ring placer. No. 1,385,922; July 26; v. 288; p. 755.
- McPhee, Angus D. (See Pierce, H. T., and McPhee.)
- McPherson, Arthur D., Chicago, Ill. Power-transmitting device. No. 1,379,031; May 24; v. 286; p. 688.
- McPherson, Elmer T., Wallingford, Conn. Die for making bit-stock tools. No. 1,366,815; Jan. 25; v. 282; p. 666.
- McPherson, Elmer T., Wallingford, Conn. Die for making bit-stock tools. No. 1,366,816; Jan. 25; v. 282; p. 667.
- McPhillamy, Burton, Vandergrift, Pa. Front hub and spindle construction for automobiles. No. 1,374,597; Apr. 12; v. 285; p. 277.
- McQuagge, William A., Marianna, Fla. Emergency-axle. No. 1,383,554; July 5; v. 28; p. 61.
- McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone switching apparatus. No. 1,376,893; May 3; v. 286; p. 98.
- McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for recording and reproducing sound. No. 1,383,737; July 5; v. 288; p. 100.
- McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,387,282; Aug. 9; v. 289; p. 332.
- McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Sound-modifying device. No. 1,393,557; Oct. 11.
- McQuarrie, James L., Montclair, N. J., and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,393,558; Oct. 11.
- McQuarrie, James L., and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,393,559; Oct. 11.
- McQuarrie, William R. D., Buffalo, N. Y. Picture spinning-top. No. 1,393,148; Oct. 11.
- McQueen, James W., Detroit, Mich. Driving mechanism. No. 1,380,401; June 7; v. 287; p. 14.
- McQueen, Roy O., and J. A. Batson, Memphis, Tex. Fuel-valve lock for motor-cars. No. 1,371,975; Mar. 15; v. 284; p. 533.
- McQuilkin, James C., Oakland, Calif. Automobile-top. No. 1,400,890; Dec. 20.
- McQuillan, Claude H., Green Bay, Wis. Film-feed apparatus for projection devices. No. 1,387,283; Aug. 9; v. 289; p. 333.
- McQuillan, William J., Pittsburgh, Pa. Holder for saw-blades. No. 1,368,638; Feb. 15; v. 283; p. 448.
- McQuinn, John K., Brockton, Mass. Moccasin-slipper. No. 1,398,108; Nov. 22.
- McQuirns, Stewart, assignor to John Wood Manufacturing Company, Conshohocken, Pa. Sheet-metal vessel. No. 1,370,983; Mar. 8; v. 284; p. 279.
- McQuitty, Robert A., London, England. Apparatus for coating the surfaces of flexible foundations. No. 1,388,353; Aug. 23; v. 289; p. 655.
- McRae, Christopher, San Francisco, Calif. Broom or mop holder. No. 1,384,619; July 12; v. 288; p. 332.
- McRae, Finlay A., Montreal, Quebec, Canada. Ocean-going vessel. No. 1,395,000; Oct. 25.
- McRae, Finlay A., Montreal, Quebec, Canada. Railway-car. No. 1,398,386; Nov. 29.
- McRee, Hillary B., Palmetto, Fla. Gas and oil vending device. No. 1,375,526; Apr. 19; v. 285; p. 518.
- McReynolds, William A., and R. Briggs, Hazelton, Kans. Valve. No. 1,395,756; Nov. 1.
- McSheehy, Bartholomew E., assignor to J. C. Blair Company, Huntingdon, Pa. Expandible ledger-file. No. 1,375,794; Apr. 26; v. 285; p. 600.
- McSorley, William J., administrator, *et al.* (See Krastin, August, assignor.)
- McSwain, William H., Moundsville, W. Va. Manufacture of glassware. No. 1,384,967; July 19; v. 288; p. 484.
- McSwiney, Daniel J., Chelsea, assignor to F. R. Mullin, Winchester, Mass. Emulsifying oil or asphalt. No. 1,384,805; July 19; v. 288; p. 451.
- McTighe, Cumian J., Cedar Canyon, S. D. Truck-body tilting or dumping device. No. 1,387,423; Aug. 9; v. 289; p. 362.
- McTighe, Edward F., assignor to The Bassick Co., Bridgeport, Conn. Pattern-plate. No. 1,369,683; Feb. 22; v. 283; p. 690.
- McVay, James, River Rouge, Mich. Wire-bending tool. No. 1,380,323; May 31; v. 286; p. 1006.
- McVeety, Charles, Cheltenham, Pa. Hot-air heating system. No. 1,393,301; Oct. 11.
- McVeety, Charles, Cheltenham, Pa. Means for promoting combustion. No. 1,398,300; Nov. 29.
- McVickar, John A. (See Gilman, Willard H., assignor.)
- McVickar, John A., New York, N. Y. Tray for phonograph-records. No. 1,387,730; Aug. 16; v. 289; p. 475.
- McVickar, John A., New York, N. Y. Filter for carbureters. No. 1,387,731; Aug. 16; v. 289; p. 475.
- McVickar, John A., New York, N. Y. Molding wax records. No. 1,394,034; Oct. 18.
- McVittie, Henry, assignor of one-half to J. R. Tripoli, Bend, Oreg. Door-latch. No. 1,384,620; July 12; v. 288; p. 332.
- McVoy, Vincen P., Mobile, Ala. Safety-plug for cylinders. No. 1,377,496; May 10; v. 286; p. 270.
- McWane, Charles W. (See Viar, Raymond P., assignor.)
- McWane, James R., Birmingham, Ala. Pouring metal in the formation of cast-iron pipes. No. 1,374,750; Apr. 12; v. 285; p. 306.
- McWane, James R., Birmingham, Ala. Means for pouring metal in the formation of cast-iron pipe. No. 1,386,268; Aug. 2; v. 289; p. 61.
- McWane, James R., Birmingham, Ala. Foundry plant for the production of cast-iron pipes and other columnar-form articles centrifugally. No. 1,386,269; Aug. 2; v. 289; p. 61.
- McWhirter, John S., New York, N. Y. Foldable seat for prepayment-cars. No. 1,395,757; Nov. 1.
- McWilliam, Robert. (See Champlin, Alvin B., assignor.)
- McWilliams, Thomas J., assignor to H. J. Trenkamp, Cleveland, Ohio. Stove-door fitting. No. 1,394,683; Oct. 25.
- Meacham, Benjamin E., Lorain, Ohio, and C. Munzner, Chicago, Ill., assignors to American Stove Company, St. Louis, Mo. Thermostat fuel-regulating device for gas-stoves. No. 1,396,706; Nov. 8.
- Meacham, Elwin L. (See Fletcher, J. H., and Meacham.)
- Mead, Ezra B., assignor to Ottumwa Iron Works, Ottumwa, Iowa. Brake-operating mechanism. No. 1,373,194; Mar. 29; v. 284; p. 869.
- Mead, Ezra B., assignor to Ottumwa Iron Works, Ottumwa, Iowa. Brake control. No. 1,373,195; Mar. 29; v. 284; p. 869.
- Mead, Ezra B., assignor to Ottumwa Iron Works, Ottumwa, Iowa. Brake control. No. 1,373,196; Mar. 29; v. 284; p. 869.
- Mead, Ezra B., assignor to Ottumwa Iron Works, Ottumwa, Iowa. Safety device for brake adjustment. No. 1,373,197; Mar. 29; v. 284; p. 870.
- Mead, Francis, Chicago, Ill. Inner-cushioned wheel. No. 1,401,421; Dec. 27.
- Mead, George G., Parkersburg, W. Va. Shank-protector. No. 1,367,884; Feb. 8; v. 283; p. 255.
- Mead, Howard G., St. Louis, Mo., assignor, by mesne assignments, to Wirebounds Patents Company, Kittery, Me. Feed mechanism for wire-bound-box-blank machines. No. 1,397,439; Nov. 15.
- Mead, Howard H., Quincy, Mich. Steam-trap. No. 1,376,214; Apr. 26; v. 285; p. 681.
- Mead, William J., Orange, Tex. Fuel-oil burner. No. 1,392,958; Oct. 11.
- Meade, Jessie B., Worden, Ill. Metal inner casing for automobile-tires. No. 1,371,180; Mar. 8; v. 284; p. 315.
- Meade, Joseph F. (See Gilmore, W. L., and Meade.)
- Meade, Wyman H., and S. H. Friestedt, Camden, N. J. Coloring and finishing the surface of grain-leather. No. 1,376,961; May 3; v. 288; p. 111.
- Meade, Wyman H., and S. H. Friestedt, Camden, N. J. Finishing leather. No. 1,385,184; July 19; v. 288; p. 530.
- Meader, Henry I., *et al.* (See Fox, Frederick L., assignor.)
- Meader, John L. (See Brainard, William S., assignor.)
- Meador, Robert T., trustee. (See Crotto, Frank E., assignor.)
- Meadors, Ansel R., Fountain Inn, S. C. Attachment or supplemental rim. No. 1,365,840; Jan. 18; v. 282; p. 430.
- Meadows, W. C., Mill Company. (See Gould, Aaron P., assignor.)
- Meahl, Philip J., Summit, N. J. Machine for marking perforated music-rolls. No. 1,385,185; July 19; v. 288; p. 530.
- Meaker, Allen P., and I. F. Baker, San Diego, Calif. Surfacing-machine. No. 1,378,259; May 17; v. 286; p. 468.



*Alphabetical list of patentees—Continued.*

- Meaker Galvanizing Company. (See Miller, Constantine G., assignor.)
- Mealey, Merl B. (See Olson, E. H., Clark, Mealey, and Pelter.)
- Means, Joseph K., Decatur, Ill. Dental appliance. No. 1,367,885; Feb. 8; v. 283; p. 255.
- Mears, Frank C., Edinburgh, Scotland. Parachute for use with aeroplanes. No. 1,395,723; Nov. 1.
- Measuregraph Company, The. (See Hosch, Greene C., assignor.)
- Measuregraph Company. (See Hosch, W. E., and Turner, assignors.)
- Measuregraph Company, The. (See Hosch, Walter E., assignor.)
- Mechanical Manufacturing Company. (See Keene, George B., assignor.)
- Measuregraph Company, The. (See Kyle, George B., assignor.)
- Measuregraph Company, The. (See Pedersen, Johannes Th., assignor.)
- Measuregraph Company, The. (See Turner, Douglas, assignor.)
- Measuregraph Company, The. (See Wheeler, John L., assignor.)
- Mechanical Manufacturing Company, The. (See Keebler, Elmer, assignor.)
- Mechanical Manufacturing Company, The. (See Morrison, George C., assignor.)
- Mechanical Manufacturing Company, The. (See Stallman, Granville H., assignor.)
- Mechanical Rubber Company, The. (See Crawford, Neil D., assignor.)
- Mechanical Rubber Company, The. (See Gillson, Henry R., assignor.)
- Mechanical Rubber Company, The. (See Kent, William J., assignor.)
- Mechano Gear Shift Company. (See Richardson, Bayard E., assignor.)
- Mechau, Emil, Wetzlar, Germany. Motion-picture projection apparatus. No. 1,401,345; Dec. 27.
- Mechau, Emil, Wetzlar, Germany. Motion-picture projection apparatus. No. 1,401,346; Dec. 27.
- Mechling, Fidelis M., Wichita, Kans. Clamp. No. 1,400,491; Dec. 13.
- Meckel, Frank, Lakewood, Ohio. Lubricator. No. 1,379,199; May 24; v. 286; p. 720.
- Mecking, Herman, New York, N. Y. Gate for dumping trucks. No. 1,400,369; Dec. 13.
- Mecky, A., Company. (See Ledig, Richard G., assignor.)
- Mecky, A., Company. (See Mottlau, August J., assignor.)
- Mecky, A., Company. (See Papini, Antonio, assignor.)
- Mebery, Chauncey C., New York, N. Y. Aeroplane. No. 1,393,150; Oct. 11.
- Medcoff, Franklin E., Coloma, Mich. Can-straightening machine. No. 1,386,942; Aug. 9; v. 289; p. 266.
- Medén, Eloy H., assignor to American Gas Accumulator Company, Elizabeth, N. J. Device for causing submersible bodies to rise or sink. No. 1,379,273; May 24; v. 286; p. 734.
- Medine, Frank J., assignor of one-half to H. S. Longfellow, Los Angeles, Calif. Cut-out. No. 1,394,207; Oct. 18.
- Medlin, Roy A. (See Pratt, Lewis M., assignor.)
- Mee, Charles, assignor of three-tenths to F. Keiper, Rochester, N. Y. Automobile-mirror. No. 1,376,377; Apr. 26; v. 285; p. 712.
- Meed, James E., Palestine, W. Va. Carpenter's adjustable fillister or rabbet plane. No. 1,388,281; Aug. 23; v. 289; p. 641.
- Meehan, Paul A., New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Kiln-car with adjustable work-support. No. 1,371,321; Mar. 15; v. 284; p. 406.
- Meehan, Paul A., New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Ware-support for kilns. No. 1,386,012; Aug. 2; v. 289; p. 10.
- Meehan, Paul A., New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Drying-kiln car. No. 1,386,013; Aug. 2; v. 289; p. 10.
- Meehan, Paul A., New Castle, Pa., assignor to American Dressler Tunnel Kiln, Inc., New York, N. Y. Annealing. No. 1,388,188; Aug. 23; v. 289; p. 621.
- Meek, William F., Tampico, Mexico. Barrel-protector. No. 1,384,704; July 12; v. 288; p. 350.
- Meek, William F., Tampico, Mexico. Barrel-protector. No. 1,399,569; Dec. 6.
- Meeks, Arthur G. (See Calhoun, Charles, assignor.)
- Meeker, Ernest C., and W. B. Woodside, Hilo, Hawaii. Blowpipe. No. 1,371,428; Mar. 15; v. 284; p. 428.
- Meeks, Fred, Los Angeles, Calif. Duplex picture. No. 1,379,642; May 31; v. 286; p. 878.
- Meeker, John A., Potsdam, N. Y. Butter-fat cage. No. 1,375,057; Apr. 19; v. 285; p. 428.
- Meelberg, Emil O., Minneapolis, Minn. Driveway construction. No. 1,364,127; Jan. 4; v. 282; p. 16.
- Mees, Carl L., Terre Haute, Ind. Bonding-pln. No. 1,365,117; Jan. 11; v. 282; p. 250.
- Mees, Charles E. K., assignor to Eastman Kodak Company, Rochester, N. Y. Method and apparatus for making photographic records. No. 1,396,770; Nov. 15.
- Mees, Eberhard F., assignor of one-half to E. C. Schoene, Milwaukee, Wis. Paint. No. 1,396,970; Nov. 15.
- Meese & Gottfried Company. (See Bried, Julien A., assignor.)
- Megary, Harry H., New York, N. Y. Folding couch-bed. No. 1,390,248; Sept. 6; v. 290; p. 137.
- Megathlin, Ralph S., Somerville, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for skiving shoe-shanks. No. 1,381,928; June 21; v. 287; p. 417.
- Megathlin, Ralph S., Somerville, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. No. 1,386,642; Aug. 9; v. 289; p. 205.
- Megenity, Ralph A., Kansas City, Mo. Concrete construction. (Reissue.) No. 15,221; Nov. 8.
- Megerlin, Alfred E., New York, N. Y. Toy. No. 1,370,337; Mar. 1; v. 284; p. 140.
- Megill, Edward L., New York, N. Y. Feed-gage for use on printing-presses. No. 1,370,827; Mar. 8; v. 284; p. 249.
- Megill, Edward L., New York, N. Y. Printing-press gage. No. 1,385,637; July 26; v. 288; p. 698.
- Megill, Edward L., New York, N. Y. Paper-gripper. No. 1,388,964; Aug. 30; v. 289; p. 830.
- Megill, Edward L., New York, N. Y. Gripper-finger. No. 1,400,303; Dec. 13.
- Megley, Harley J., assignor of fifty per cent. to himself and fifty per cent. to L. G. Nelson, Chicago, Ill. Binding-strip. No. 1,377,846; May 10; v. 286; p. 337.
- Megow, Edward J., H. O. Day, and R. E. Gehan, assignors to Convertible Tractor Corporation, St. Paul, Minn. Transmission traction-wheel. No. 1,369,042; Feb. 22; v. 283; p. 566.
- Megquier, Bertellow W., Butte, Mont. Attachment for closed can. No. 1,374,752; Apr. 12; v. 285; p. 307.
- Megson, John E., Catskill, N. Y. Wiper-ring for the cylinders of internal-combustion engines. No. 1,368,447; Feb. 15; v. 283; p. 411.
- Meguar, Charles W., Sonora, Ky. Apparatus for dispensing dental materials. No. 1,386,193; Aug. 2; v. 289; p. 46.
- Mehl, Charles F., H. B. Liebler, J. Nall, and E. J. Nobbe, Cleveland, Ohio. Safety device for moving-picture machines. No. 1,400,760; Dec. 20.
- Mehl, Charles F., H. B. Liebler, J. Nall, and E. J. Nobbe, Cleveland, Ohio. Safety device for moving-picture machines. No. 1,395,724; Nov. 1.
- Mehlhope, Clarence E., trustee. (See Burkel, M. J., and Weis, assignors.)
- Mehta, Phirozeshaw M., assignor of one-half to H. D. Pudumjee and D. J. Akhoona, Bombay, India. Ship. No. 1,371,255; Mar. 15; v. 284; p. 393.
- Meichsner, Frank C., Boston, Mass. Pelorus. No. 1,367,918; Feb. 8; v. 283; p. 261.
- Meier, August. (See Nitsch, F. L., and Meier.)
- Meier, Edna F., Denver, Colo. Child's waist. No. 1,385,221; July 19; v. 288; p. 537.
- Meier-Gaynor Mfg. Co. (See Edgecombe, Edward F., Jr., assignor.)
- Meier-Gaynor Manufacturing Co. (See Gaynor, John J., assignor.)
- Meier, Gustave A., Norwood, and C. J. Wicher, assignors to The G. H. Strietmann's Sons Co., Cincinnati, Ohio. Combined cake and filler feeder. No. 1,382,209; June 21; v. 287; p. 468.
- Meier, Hans. (See Bodmer, Gottfried, assignor.)
- Meier, William, New York, N. Y. Combination-faucet. No. 1,371,922; Mar. 15; v. 284; p. 523.
- Meikle, George S., New York, N. Y. Thermos bottle. No. 1,388,189; Aug. 23; v. 289; p. 621.
- Meili, Otto. (See Blumberg, P., and Meili.)
- Meilink, Charles F., Toledo, Ohio. Filing-cabinet. No. 1,365,523; Jan. 11; v. 282; p. 329.
- Meinert, Josef. (See Horn, J., May, and Meilner.)
- Meinecke, Joseph, Paia Maui, Hawaii. Cane-sugar mill. No. 1,401,095; Dec. 20.
- Meiners, August H., assignor of one-half to E. Paffrath, St. Louis, Mo. Reinforced-concrete manhole and sewer-inlet casing. No. 1,391,336; Sept. 20; v. 290; p. 513.
- Meisel, Charles A., assignor to Meisel Press Manufacturing Company, Dorchester, Mass. Printing-press. No. 1,399,360; Dec. 6.
- Meisel, Charles A., assignor to Meisel Press Manufacturing Company, Dorchester, Mass. Printing-press. No. 1,401,422; Dec. 27.
- Meisel, Charles A., Dorchester, assignor to Meisel Press Manufacturing Company, Boston, Mass. Printing-press. No. 1,401,423; Dec. 27.
- Meisel, Guido. (See Burrage, A. C., Jr., and Meisel.)
- Meisel Press Manufacturing Company. (See Meisel, Charles A., assignor.)
- Meisser, Sarah A., et al. (See Best, William N., assignor.)
- Meister, Jacob, Basel, Switzerland. Degumming textile fibers. No. 1,397,875; Nov. 22.
- Meistrell, Joseph U., Brooklyn, N. Y. Ejector-control for type-bar machines. No. 1,382,110; June 21; v. 287; p. 450.
- Meitner, Elemer, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Range-indicator. No. 1,368,224; Feb. 8; v. 283; p. 320.
- Meitner, Elemer, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Range-indicator. No. 1,373,442; Apr. 5; v. 285; p. 12.
- Meitner, Elemer, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Testing-stand for gyroscopes. No. 1,374,162; Apr. 5; v. 285; p. 151.



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- Meitner, Elemer, Brooklyn, assignor, by mesne assignments, to Ford Instrument Company, Incorporated, New York, N. Y. Range-predicting apparatus. No. 1,387,551; Aug. 16; v. 289; p. 439.
- Meitner, Elemer, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Electrical transmission system. No. 1,391,652; Sept. 20; v. 290; p. 576.
- Meitner, Elemer, New York, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Shock-absorbing transmission mechanism. No. 1,391,653; Sept. 20; v. 290; p. 576.
- Meitner, Elemer, Brooklyn, assignor, by mesne assignments, to Ford Instrument Company, Incorporated, New York, N. Y. Range and bearing indicator. No. 1,392,959; Oct. 11.
- Meitner, Elemer, Brooklyn, and A. C. Maby, Richmond Hill, N. Y., assignors to The Sperry Gyroscope Company, Brooklyn, N. Y. Hunting automobile torpedo. No. 1,401,628; Dec. 27.
- Mekan, Frank E., Dexter, Mo. Attachment for tractors. No. 1,383,225; June 28; v. 287; p. 716.
- Mekanisk Industri Company. (See Möller, M. W., and Harms, assignors.)
- Melby, Johannes, Backus, Minn. Sleigh-runner. No. 1,370,338; Mar. 1; v. 284; p. 110.
- Melchior, Claude B., Des Moines, assignor to Liquid Malted Milk Company, Cedar Rapids, Iowa. Bottle-capping machine. No. 1,365,182; Jan. 11; v. 282; p. 263.
- Melchior, Ruby G., Placerville, Calif. Jar-filling funnel. No. 1,368,640; Feb. 15; v. 283; p. 449.
- Meldal, Edward, London, England. Nut, bolt, screw, and the like. No. 1,397,876; Nov. 22.
- Meldrum, Charles. (See Wall, J. M., and Meldrum.)
- Melendy, Earl H., Shellrock, Iowa. Spark-plug. No. 1,377,715; May 10; v. 286; p. 311.
- Melfi, Vincenzo F., New York, N. Y. Detachable button. No. 1,368,277; Feb. 15; v. 283; p. 378.
- Melin, Frank O., assignor of one-half to L. H. Peterson, Omaha, Nebr. Vulcanizer. No. 1,376,149; Apr. 26; v. 285; p. 669.
- Melish, Thomas G., Cincinnati, Ohio. Holder for fruit-jars. No. 1,385,841; July 26; v. 288; p. 739.
- Mell, Tod J., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Manufacturing tires and apparatus therefor. No. 1,389,960; Sept. 6; v. 290; p. 81.
- Mellantine, Paul C., Milwaukee, Wis. Motorcycle-fork extension. No. 1,365,524; Jan. 11; v. 282; p. 329.
- Mellen, Grenville, Cranford, N. J. Internal-combustion engine. No. 1,396,045; Nov. 8.
- Mellenthin, Edwin E., Waukesha, Wis. Automobile-lock. No. 1,365,841; Jan. 18; v. 282; p. 431.
- Mellenthin, Edwin E., Waukesha, Wis. Temperature control for radiators. No. 1,389,771; Sept. 6; v. 290; p. 42.
- Mellenthin, Edwin E., Waukesha, Wis. Vacuum-cleaner. No. 1,400,448; Dec. 13.
- Mellgren, Olof J., Gottenborg, Sweden. Manufacture of igniting compositions for matches. No. 1,379,355; May 24; v. 286; p. 750.
- Mellick, Edwin C., Formoso, Kans. Poultry-waterer. No. 1,401,424; Dec. 27.
- Melling, Herbert T., Regina, Saskatchewan, Canada. Manifold-cover. No. 1,389,961; Sept. 6; v. 290; p. 81.
- Melling, Herman W., Jackson, Mich. Work-holder. No. 1,384,079; July 12; v. 288; p. 219.
- Mellinger, Edward A., assignor to Automatic Electric Company, Chicago, Ill. Telephone trunking and supervisory system. No. 1,366,539; Jan. 25; v. 282; p. 611.
- Mellon, George H., deceased, Philadelphia, Pa.; F. A. Vickrey, administrator. Glass casket. No. 1,364,782; Jan. 4; v. 282; p. 142.
- Mellon, George H., deceased, and W. R. Smith, Pittsburgh, Pa.; said Smith assignor to said Mellon, F. A. Vickrey, administrator. Casket. No. 1,364,780; Jan. 4; v. 282; p. 141.
- Mellon, George H., deceased, and W. R. Smith, Pittsburgh, Pa.; said Smith assignor to said Mellon, F. A. Vickrey, administrator. Casket. No. 1,364,781; Jan. 4; v. 282; p. 142.
- Mellon, James I., assignor to J. D. Johnson Co., Inc., Philadelphia, Pa. Air-inlet for main house-traps. No. 1,371,568; Mar. 15; v. 284; p. 456.
- Mellor, Alfred S., Cambridge, Mass. Vise. No. 1,385,088; July 19; v. 288; p. 510.
- Mellor, George, Philadelphia, Pa. Spark-plug cleaner. No. 1,378,182; May 17; v. 286; p. 454.
- Mellor, George S., Philadelphia, Pa. Inner-tube deflator. No. 1,396,646; Nov. 8.
- Mellor, John, Jersey City, N. J. Metallic wiper. No. 1,381,323; June 14; v. 287; p. 242.
- Mellor, Robert W., Girard, Ohio. Air-chill for vehicle-tires. No. 1,374,382; Apr. 12; v. 285; p. 235.
- Melnick, Karp, Plantsville, Conn. Animal-trap. No. 1,397,440; Nov. 15.
- Melniker, Abraham, Brooklyn, N. Y. Hammock. No. 1,389,682; Sept. 6; v. 290; p. 24.
- Meloon, Jonathan C., Providence, R. I. Automatic attachment for fire-extinguisher systems. No. 1,401,175; Dec. 27.
- Melton, Edward R., et al. (See Ball, George S., assignor.)
- Melton, Lloyd L., Chicago, Ill. Internal-combustion engine. No. 1,378,260; May 17; v. 286; p. 468.
- Melton, Roy R., Camden, Tenn. Automobile number-plate. No. 1,397,136; Nov. 15.
- Meltz, Julius B., assignor to The Everett Machine and Manufacturing Company, Everett, Mass. Pastry-making machine. No. 1,379,643; May 31; v. 286; p. 878.
- Meltzer, Hyman, and L. Karron, Brooklyn, N. Y. Frame for handbags and pocketbooks. No. 1,376,824; May 3; v. 286; p. 84.
- Melugin, Frank, Webb City, Mo. Gate-hinge. No. 1,383,961; July 5; v. 288; p. 145.
- Melvin, Albert L., Detroit, Mich. Anchor-post. No. 1,393,808; Oct. 18.
- Melvin, Charles P., assignor to The Melvin-Lloyd Company, Youngstown, Ohio. Laundry-stove. No. 1,399,439; Dec. 6.
- Melvin-Lloyd Company, The. (See Melvin, Charles P., assignor.)
- Melvin, Morgan, Niagara Falls, N. Y. Gage-cock. No. 1,377,360; May 10; v. 286; p. 244.
- Melvin, Odum T., St. Andrews, Fla. Fishing-net buoy. No. 1,37,942; Apr. 19; v. 285; p. 405.
- Melvin, Odum T., St. Andrews, Fla. Buoy. No. 1,374,943; Apr. 19; v. 285; p. 405.
- Melvin, William, Wilmington, Del. Safety mechanism for elevators. No. 1,375,227; Apr. 19; v. 285; p. 461.
- Melzer, Richard H., assignor to Triplex Garment Presser, Inc., Syracuse, N. Y. Garment-pressing machine. No. 1,400,088; Dec. 13.
- Memmen, Lawrence W., Chicago, Ill. Driving mechanism for laundry machines. No. 1,384,267; July 12; v. 288; p. 258.
- Menard, Alfred N., Salix, Iowa. Water-trough. No. 1,400,449; Dec. 13.
- Menard, Henry J. (See Saxton, A. C., and Menard.)
- Menard, Joseph A., Seattle, Wash. Abrasive composition. No. 1,381,728; June 14; v. 287; p. 319.
- Mencarelli, Herman R., assignor of one-half to L. J. O'Riley, Grand Rapids, Mich. Heel for shoes. No. 1,378,261; May 17; v. 286; p. 469.
- Menchen, Joseph, New York, N. Y. Protective and alarm system. No. 1,377,264; May 10; v. 286; p. 225.
- Menchen, Joseph, New York, N. Y. Aerial torpedo and launching means. No. 1,382,375; June 21; v. 287; p. 500.
- Menchen, Joseph, and A. G. Bergman, New York, N. Y., assignor to T. G. Hoagland, Rockaway, N. J. Nut-lock. No. 1,394,778; Oct. 25.
- Menco-Elma Syndicate Limited, The. (See Reeve, Edward assignor.)
- Mendal, Henry L., Baltimore, Md. Hair-cutting machine. No. 1,387,604; Aug. 16; v. 289; p. 449.
- Mendel, Michael, New York, N. Y. Rack for chemicals and other purposes. No. 1,367,620; Feb. 8; v. 283; p. 204.
- Mendels, Irwin J., assignor to Empire Transformer Company, Chicago, Ill. Electric toaster. No. 1,394,856; Oct. 25.
- Mendelsohn, Gustave, et al. (See Lazarus, M., and Davies, assignors.)
- Mendelson, Abram N., New York, N. Y. Traffic-signal. No. 1,372,530; Mar. 22; v. 284; p. 696.
- Mendenhall, Albert E., Garden City, Kans. Trace-carrier. No. 1,401,347; Dec. 27.
- Mendenhall, Austin A., Duluth, Minn. Cushioned wheel. No. 1,374,753; Apr. 12; v. 285; p. 307.
- Mendenhall, Charles A., et al. (See Kesot, Benjamin M., assignor.)
- Mendenhall, Charles A., Farmland, Ind. Resilient wheel. No. 1,366,407; Jan. 25; v. 282; p. 584.
- Menefee, Harry R., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Support. No. 1,387,288; Aug. 9; v. 289; p. 333.
- Meng, Harry E., Oak Park, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Hose-nozzle. No. 1,401,425; Dec. 27.
- Mengel, Charles C., Louisville, Ky. Box-stitching machine. No. 1,373,753; Apr. 5; v. 285; p. 72.
- Mengel Company, The. (See Green, Warren T., assignor.)
- Mengel Company, The. (See Moore, John A., assignor.)
- Mengelbier, Oscar, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Extracting juices from root fruits. No. 1,372,891; Mar. 29; v. 284; p. 809.
- Menger, Edward W., San Antonio, Tex. Pressure-screw. No. 1,387,996; Aug. 16; v. 289; p. 527.
- Menges, Luther A., and W. W. Simpson, assignors to La Fayette Motors Company, Indianapolis, Ind. Shutter construction for motor-vehicle radiators. No. 1,379,644; May 31; v. 286; p. 879.
- Menk, Rudolph W., Joliet, assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Air circulator and humidifier for furnaces and heaters. No. 1,365,842; Jan. 18; v. 282; p. 431.
- Menk, Rudolph W., Joliet, assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Cold-air-supply device for heaters. No. 1,383,477; July 5; v. 288; p. 46.
- Mennesson, Marcel. (See Goudard, M., and Mennesson.)
- Mennie, Robert S., Chicago, Ill., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,366,698; Jan. 25; v. 282; p. 643.
- Mennie, Robert S., Chicago, Ill., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,395,286; Nov. 1.



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- Menon, Vadakkath R., Singapore, Straits Settlements, Combined writing-desk and cabinet. No. 1,392,191; Sept. 27; v. 290; p. 758.
- Mensch, Arthur J., Glenbeulah, assignor of one-half to H. Blanke, Plymouth, Wis. Cheese-holder. No. 1,393,950; Oct. 18.
- Menser, Albert N., assignor of one-half to J. Moore, Johnstown, Pa. Rail-fastener. No. 1,378,366; May 17; v. 286; p. 488.
- Mensing, Anton B., New York, N. Y. Cigarette-extinguisher. No. 1,366,675; Jan. 25; v. 282; p. 638.
- Mensing, Wilhelm, Freiberg, Germany. Producing ferro-leather. No. 1,371,803; Mar. 15; v. 284; p. 301.
- Menton, Christian H. (See Hurtig, P. H., and Menton.)
- Mentzer, Claude E., Des Moines, Iowa, assignor to The Eclipse Machine Company, Elmira, N. Y. Locking device for gear-shift levers. No. 1,391,200; Sept. 20; v. 290; p. 484.
- Menn, Jules, Paris, France. Mud-guard. No. 1,366,408; Jan. 25; v. 282; p. 584.
- Menzl, Elizabeth M., Steinway, Long Island City, N. Y. Bobbin-unwinding attachment for sewing-machines. No. 1,368,820; Feb. 15; v. 283; p. 484.
- Menzl, Elizabeth M., Steinway, Long Island City, N. Y. Curtain-adjuster. No. 1,368,821; Feb. 15; v. 283; p. 484.
- Mepsted, Ernest, Pentonville, London, England. Locking of removable joint-pins, hinge-pins, coupling-pins, and the like. No. 1,372,242; Mar. 22; v. 284; p. 641.
- Mercer, Ernest K., Cleveland, Ohio. Chemical-mixing device. No. 1,386,519; Aug. 2; v. 289; p. 108.
- Mercer, Joseph H., *et al.* (See Cushing, William H., assignor.)
- Mercer, Raymond C., Los Angeles, Calif. Film-patch. No. 1,389,523; Aug. 30; v. 289; p. 941.
- Mercer, Robert S., Blackburn, England. Machine for filling pill-boxes with a regular quantity of pills. No. 1,400,304; Dec. 13.
- Mercer, Walter F., Grand Rapids, Mich. Device for locating submerged objects. No. 1,367,415; Feb. 1; v. 283; p. 106.
- Mercer, Walter M., *et al.* (See Anderson, George A., assignor.)
- Merchant Calculating Machine Company. (See Dennis, Adolphus S., assignor.)
- Merck, Claud C., Clarksville, Ga. Mail-box. No. 1,368,184; Feb. 8; v. 283; p. 311.
- Mercury Manufacturing Company. (See De More, Leonel A., assignor.)
- Mercury Manufacturing Company. (See Kline, Lawrence J., assignor.)
- Meredith, Cain B., Los Angeles, Calif. Shoestring-holder. No. 1,371,637; Mar. 15; v. 284; p. 469.
- Meredith, Earnest L., Farnam, Nebr. Child's safety-harness. No. 1,369,456; Feb. 22; v. 283; p. 646.
- Meredith, Jaquelin M., Jr., Norfolk, Va. Detachable gear for automobiles. No. 1,384,623; July 12; v. 288; p. 333.
- Meredith-Jones, Hubert, assignor to The Air-O-Mix Corporation, New York, N. Y. Device for mixing liquids. No. 1,380,970; June 7; v. 287; p. 124.
- Meredith, William, Indianapolis, Ind. Economic cooking-vessel wipe. No. 1,388,282; Aug. 23; v. 289; p. 641.
- Meret, Julius, assignor of one-half to L. Wandrie, Chicago, Ill. Rotary embossing-machine. No. 1,368,956; Feb. 15; v. 283; p. 509.
- Mergenthaler, Eugene G., deceased, Baltimore, Md.; H. C. Mergenthaler and Safe Deposit and Trust Company of Baltimore, executors, assignors of one-half to H. C. Mergenthaler, individually, and one-half to Safe Deposit and Trust Company of Baltimore, trustee. Card-counting machine. No. 1,369,120; Feb. 22; v. 283; p. 581.
- Mergenthaler, Herman C., *et al.*, executors. (See Mergenthaler, Eugene G.)
- Mergenthaler Linotype Company. (See Alderdice, Walter, assignor.)
- Mergenthaler Linotype Company. (See Barr, M., and Maw, assignors.)
- Mergenthaler Linotype Company. (See Griffith, Chauncey H., assignor.)
- Mergenthaler Linotype Company. (See Jacobs, Samuel A., assignor.)
- Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)
- Mergenthaler Linotype Company. (See Nielsen, Sigurd C., assignor.)
- Mergenthaler Linotype Company. (See Rogers, John R., assignor.)
- Mergenthaler Linotype Company. (See Sherrill, Luther, assignor.)
- Mergott, J. E., Company, The. (See Fuller, Franz A., assignor.)
- Merideth, Doss A., Prague, Okla. Adjustable vehicle-seat. No. 1,375,058; Apr. 19; v. 285; p. 428.
- Meridian Motor Valve Company. (See Wobig, Fred H., assignor.)
- Meriwether, Coleman, assignor to P. C. Reilly, Indianapolis, Ind. Metaled-end concrete pipe. No. 1,396,135; Nov. 8.
- Meriwether, Coleman, Louisville, Ky., assignor to P. C. Reilly, Indianapolis, Ind. Metaled-end concrete pipe. No. 1,401,105; Dec. 20.
- Merk, Lawrence A., Los Angeles, Calif. Brush-holder. No. 1,396,451; Nov. 8.
- Merkel, Arthur E. (See Bayliss, Jerome Z., assignor.)
- Merkel, Joseph F., assignor to Cyclemotor Corporation, Rochester, N. Y. Means for securing articles to motor-cycles and the like. No. 1,400,967; Dec. 20.
- Merkelbach, Albert J., Muscatine, Iowa. Steel burial-vault. No. 1,383,139; June 28; v. 287; p. 699.
- Merkins, Jacob S., Grand Junction, Colo. Automatic tympan-gage. No. 1,399,141; Dec. 6.
- Merle, Alfred J., Alameda, Calif. Mold. No. 1,399,977; Dec. 13.
- Merli, Carlo, and G. Bertolini, New York, N. Y.; said Bertolini assignor of his entire right to V. Kleinberg, S. Mangiapane, and F. Fumo, New York, N. Y. Machine for stuffing meat and like provisions. No. 1,395,967; Nov. 1.
- Merlien, Hiram A., *et al.* (See Whitney, William A., assignor.)
- Merlo, Guido, Bristol, Pa. Music-roll cabinet. No. 1,396,378; Nov. 8.
- Mero, Frank K., Malden, Mass. Loose-leaf binder. No. 1,398,034; Nov. 22.
- Merolle, Augustus L., assignor to L. R. N. Carvalho, Brooklyn, N. Y. Cap-threading machine. No. 1,392,844; Oct. 4.
- Meroney, John A., San Francisco, assignor to California Evaporating Company, Santa Clara County, Calif. Air heater and drier. No. 1,365,422; Jan. 11; v. 282; p. 309.
- Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Process and apparatus for desiccating. No. 1,365,055; Jan. 11; v. 282; p. 238.
- Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Condensed buttermilk, buttermilk powder, and making same. No. 1,370,828; Mar. 8; v. 284; p. 250.
- Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Agitator. No. 1,375,406; Apr. 19; v. 285; p. 495.
- Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Concentrated buttermilk. No. 1,391,642; Sept. 20; v. 290; p. 574.
- Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Treating juice and product. No. 1,398,080; Nov. 22.
- Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Treating juice and product. No. 1,398,081; Nov. 22.
- Merrell-Soule Company. (See Gould, Benjamin A., assignor.)
- Merrell-Soule Company. (See Merrell, Irving S., assignor.)
- Merren, John J., Port Arthur, Tex. Self-lining interlocking building-block. No. 1,384,080; July 12; v. 288; p. 219.
- Merriam, Henry F., Maplewood, N. J., assignor to General Chemical Company, New York, N. Y. Making contact sulfuric acid. No. 1,384,566; July 12; v. 288; p. 321.
- Merriam, Melvel. (See Newland, R. T., and Merriam.)
- Merrick, Frank W., assignor to Union Lock Stitch Company, Boston, Mass. Lasting-machine. No. 1,392,590; Oct. 4.
- Merritt, Raymond S., Syracuse, N. Y. Automatic train-stopping apparatus. No. 1,366,740; Jan. 25; v. 282; p. 651.
- Merrill, Ayres P., Natchez, Miss. Plow and pulverizer. No. 1,392,845; Oct. 4.
- Merrill, Carl J., Portland, Me. Separator. No. 1,382,846; June 28; v. 287; p. 644.
- Merrill Company, The. (See Mills, L. D., and Crowe, assignors.)
- Merrill Process Company, The. (See Macdonald, John W. F., assignor.)
- Merrill, Stephen E., Port Richmond, N. Y. Automatic choke-valve-actuating device. No. 1,379,274; May 24; v. 286; p. 734.
- Merrill, Tom. (See Hall, W. B., and Merrill.)
- Merriman, Willeve T., Jackson, Mich. Tie-fastener. No. 1,379,034; May 24; v. 286; p. 689.
- Merritt, A. T. (See Mizell, George, assignor.)
- Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Co., New York, N. Y. Sewing-machine presser-foot. No. 1,388,360; Aug. 23; v. 289; p. 657.
- Merritt, Benjamin F., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,384,396; July 12; v. 288; p. 285.
- Merritt & Chapman Derrick & Wrecking Company. (See Chapman, William L., assignor.)
- Merritt, Clifford F., *et al.* (See Shrum, Will N., assignor.)
- Merritt, Ernest, Ithaca, N. Y. Submarine sound detection. No. 1,378,420; May 17; v. 286; p. 499.
- Merritt, Ernest, Ithaca, N. Y. Method and apparatus for detecting or measuring small electromotive forces. No. 1,387,552; Aug. 16; v. 289; p. 439.
- Merritt, Frank W., Duluth, Minn. Heater. No. 1,393,234; Oct. 11.
- Merritt, Frank W., and A. E. Watts, Duluth, Minn. Means for automatically registering ships' draft. No. 1,380,585; June 7; v. 287; p. 47.



*Alphabetical list of patentees—Continued.*

- Merritt, James M., Los Angeles, assignor of forty-one per cent. to C. F. Jaques, San Francisco, Calif. Automatic stove or the like. No. 1,394,424; Oct. 13.
- Merritt, Matthew M., Danvers, assignor to Copper Products Company, Boston, Mass. Reflector. No. 1,387,424; Aug. 9; v. 289; p. 362.
- Merritt, Matthew M., South Middleton, assignor to Copper Products Company, Boston, Mass. Electrolytic apparatus and process. No. 1,381,882; June 14; v. 287; p. 348.
- Merritt, Matthew M., South Middleton, assignor to Copper Products Company, Boston, Mass. Electrolytic process, product, and apparatus. No. 1,381,883; June 14; v. 287; p. 348.
- Merritt, Matthew M., South Middleton, assignor to Merritt Metals Company, Salem, Mass. Electrolytic process and apparatus. No. 1,387,425; Aug. 9; v. 289; p. 362.
- Merritt, Matthew M., South Middleton, assignor to Merritt Metals Company, Salem, Mass. Soldering aluminum. No. 1,387,426; Aug. 9; v. 289; p. 363.
- Merritt Metals Company. (See Merritt, Matthew M., assignor.)
- Merritt, Robert W., New York, N. Y. Garter. No. 1,397,106; Nov. 15.
- Morrow, Joseph M., assignor to The Morrow Machine Company, Hartford, Conn. Guide for sewing-machines. No. 1,365,525; Jan. 11; v. 282; p. 329.
- Morrow Machine Company, The. (See Morrow, Joseph M., assignor.)
- Merry, Frederick C., assignor to Merry Optical Company, Kansas City, Mo. Eyeglass-mounting. No. 1,395,199; Oct. 25.
- Merry Optical Company. (See Merry, Frederick C., assignor.)
- Mersfelder, William L., assignor to Detroit Stove Works, Detroit, Mich. Grate. No. 1,395,444; Nov. 1.
- Mershon, Ralph D., New York, N. Y. Forming dielectric films. No. 1,388,874; Aug. 30; v. 289; p. 812.
- Mertens, Eugene R., assignor to Detroit Cadillac Motor Car Company, New York, N. Y. Radiator-cover. No. 1,379,412; May 24; v. 286; p. 760.
- Mertens, Louis R., assignor to C. J. Miller, Philadelphia, Pa. Steam-valve. No. 1,383,005; June 28; v. 287; p. 674.
- Merton, Herbert. (See Bush, Harold D., assignor.)
- Merton, Herbert. (See Hinton, Thomas, assignor.)
- Merton, Herbert. (See Sully, Roland J., assignor.)
- Merton, Herbert. (See Wise, Ernest A., assignor.)
- Mertz, Otto L., assignor to J. H. Benjamin, Chicago, Ill. Binder for package-ties. No. 1,370,755; Mar. 8; v. 284; p. 236.
- Mertzano, André M., Buffalo, N. Y. Boiler. No. 1,397,010; Nov. 15.
- Merwin, George M., Berwyn, Ill., assignor, by mesne assignments, to International Harvester Company. Fodder-disintegrator. (Reissue.) No. 15,050; Feb. 22; v. 283; p. 708.
- Merwin, George M., Berwyn, Ill., assignor, by mesne assignments, to International Harvester Company. Ensilage-cutter. No. 1,395,445; Nov. 1.
- Merwitz, Jacob, North Troy, N. Y. Water-motor. No. 1,364,202; Jan. 4; v. 282; p. 30.
- Merz, Carl L., New York, N. Y. Safety-razor. No. 1,389,962; Sept. 6; v. 290; p. 81.
- Merz, Franco, Vercelli, Italy. Crystallizing-receptacle. No. 1,366,474; Jan. 25; v. 282; p. 598.
- Merz, Gottlieb, McKeesport, Pa. Automatic mechanism for operating gates, doors, &c. No. 1,378,183; May 17; v. 286; p. 454.
- Meserole, Milton D., West Haven, assignor to The James F. Molloy & Co., New Haven, Conn. Antirattling device for automobile-windows. No. 1,369,689; Feb. 22; v. 283; p. 692.
- Mesnooh, Joseph S., Brooklyn, N. Y. Window-regulator. No. 1,380,002; May 31; v. 286; p. 945.
- Mess, George B., Charleston, W. Va. Motometer-guard. No. 1,388,190; Aug. 23; v. 289; p. 622.
- Messenger, Charles O., Astoria, Oreg. Saw. No. 1,385,385; July 26; v. 288; p. 646.
- Messenger, Jack E., Des Moines, Iowa. Bench-vice. No. 1,399,786; Dec. 13.
- Messer, George F., Aberdeen, Wash. Dirigible headlight. No. 1,386,014; Aug. 2; v. 289; p. 10.
- Messersmith, Marion E., *et al.* (See Keller, Beler A., assignor.)
- Messick, Turner B. (See Hyman, H. R., and Messick.)
- Messina, Jose, *et al.* (See Biundo, Philip M., assignor.)
- Messina, Joseph, New Orleans, La. Toy. No. 1,371,802; Mar. 15; v. 284; p. 501.
- Messinger Automatic Sales Corporation. (See Koehler, Edward J., assignor.)
- Messinger, Calvin A., Rock Island, Ill. Brick-tongs. No. 1,364,128; Jan. 4; v. 282; p. 16.
- Messmer, Adolph U., Minneapolis, Minn. Casein glue. No. 1,373,518; Apr. 5; v. 285; p. 28.
- Messner, John, Calumet, Mich. Traction-shoe. No. 1,395,134; Oct. 25.
- Mestars, Robert, Oakland, Calif. Antiskid-chain. No. 1,400,896; Dec. 20.
- Mestechkin, Bernard, Washington, D. C. Coating finger-rings. No. 1,382,438; June 21; v. 287; p. 513.
- Mester, Robert H., Webster Groves, Mo. Protector for desks. No. 1,390,370; Sept. 13; v. 290; p. 254.
- Mestre, Harold, San Francisco, Calif. Table-seat. No. 1,375,166; Apr. 19; v. 285; p. 449.
- Meszaros, Helen, McKeesport, Pa. Garment-hanger. No. 1,395,287; Nov. 1.
- Meszaros, Janos, East Millsboro, Pa. Chicken-house. No. 1,367,416; Feb. 1; v. 283; p. 106.
- Meszaros, John, Glenalum, W. Va. Rail-joint fastener. No. 1,387,504; Aug. 16; v. 289; p. 429.
- Metal Craft Company, The. (See Copland, James P., assignor.)
- Metal Forming Corporation. (See Sims, Ernest M., assignor.)
- Metal-I. Let Manufacturing Co. (See Suydam, Frank W., assignor.)
- Metal Parts Manufacturing Company, The. (See Hafe-meister, William C., assignor.)
- Metal Protection Laboratories, The. (See Sorensen, Frank L., assignor.)
- Metal Protection Laboratory, The. (See Haines, F. W., and Sorensen, assignors.)
- Metal Saw & Machine Co. (See Stowell, Byron F., assignor.)
- Metal Shingle and Siding Company, The. (See Gilmore, Alfred A., assignor.)
- Metalform Construction Corporation. (See Rashkovsky, Samuel, (now, by judicial change of name, Samuel Raskin,) assignor.)
- Metalite Company, The. (See Clapp, Albert L., assignor.)
- Metals Extraction Corporation Limited, The. (See Field, Samuel, assignor.)
- Metals Recovery Company. (See Perkins, Clement L., assignor.)
- Metals Recovery Company. (See Perkins, Clement L., and Sayre, assignors.)
- Metals Recovery Company. (See Robbins, Hallet R., assignor.)
- Metals Recovery Company. (See Sayre, Ralph E., assignor.)
- Metals Recovery Company. (See Schwarz, Alfred, assignor.)
- Metals Research Company. (See Bragg, Gilbert A., assignor.)
- Metalwood Manufacturing Company. (See Patterson, Clarence L., assignor.)
- Metcalf, Alpha H., assignor to H. A. Allen & Company, Attleboro, Mass. Soft-collar holder. No. 1,374,311; Apr. 12; v. 285; p. 221.
- Metcalf, Alpha H., assignor to H. A. Allen & Company, Attleboro, Mass. Soft-collar holder. No. 1,374,312; Apr. 12; v. 285; p. 221.
- Metcalf, Arthur S. E., Driscoll, N. D. Plier-wrench. No. 1,371,387; Mar. 15; v. 284; p. 420.
- Metcalf, Benjamin A. (See Nelson, Leon J., assignor.)
- Metcalf, Benjamin A., and C. E. Hutchings, Denver, Colo. Clothes-clamping machine for laundry use. No. 1,372,183; Mar. 22; v. 284; p. 629.
- Metcalf, Ernest H., Marlboro, N. H. Tweezers. No. 1,380,232; May 31; v. 286; p. 989.
- Metcalf, George R., *et al.* (See Cox, John W., assignor.)
- Metcalf, Nathan T., Kingston, N. Y. Jar-holder. No. 1,394,105; Oct. 18.
- Metcalfe, Robert F., Erie, Pa. Method of and apparatus for burning combustible mixtures. No. 1,380,997; June 7; v. 287; p. 129.
- Methieson Alkali Works, The. (See MacMahon, James H., assignor.)
- Methot, Philip. (See Martel, L. V., and Methot.)
- Metro-Pictures Corporation. (See Grams, Walter F., assignor.)
- Metropolitan Sewing Machine Corporation. (See Wels, John E., assignor.)
- Metropolitan-Vickers Electrical Company. (See Baumann, Karl, assignor.) (Reissue.)
- Metternich, George H., Chicago, Ill. Handbag. No. 1,401,426; Dec. 27.
- Mettler, Clyde M. (See Smith, Charles, assignor.)
- Metz, Ralph A., Baton Rouge, La. Apparatus for cooling oil or other heated liquids. No. 1,393,631; Oct. 11.
- Metzger, Charles A. (See Metzger, William E., assignor.)
- Metzger, Ferdinand F., Philadelphia, Pa. Extensometer. No. 1,382,663; June 28; v. 287; p. 609.
- Metzger, Floyd J., New York, N. Y., assignor to Air Reduction Company, Inc. Production of hydrocyanic acid. No. 1,385,335; July 19; v. 288; p. 559.
- Metzger, Floyd J., New York, N. Y., assignor to Air Reduction Company, Inc. Production of hydrocyanic acid. No. 1,385,336; July 19; v. 288; p. 559.
- Metzger, Floyd J., New York, N. Y. Manufacture of alkali metal cyanid. No. 1,388,586; Aug. 23; v. 289; p. 700.
- Metzger, Floyd J., New York, N. Y., assignor to Air Reduction Company, Inc. Furnace-tube. No. 1,387,505; Aug. 16; v. 289; p. 429.
- Metzger, John, Los Angeles, Calif., assignor to Union Tank & Pipe Company. Circle-swing. No. 1,368,568; Feb. 15; v. 283; p. 435.
- Metzger, Jules P., Carlstadt, assignor to The Leslie Co., Lyndhurst, N. J. Combined pressure regulating and governing apparatus. No. 1,369,690; Feb. 22; v. 283; p. 692.
- Metzger, Jules P., Carlstadt, assignor to The Leslie Co., Lyndhurst, N. J. Combined regulating and governing apparatus. No. 1,369,691; Feb. 22; v. 283; p. 692.



## Alphabetical list of patentees—Continued.

- Metzger, Jules P., Carlstadt, assignor to The Leslie Co., Lyndhurst, N. J. Combined pressure regulating and governing apparatus. No. 1,369,692; Feb. 22; v. 283; p. 692.
- Metzger, Jules P., Carlstadt, assignor to The Leslie Co., Lyndhurst, N. J. Combined pressure regulating and governing apparatus. No. 1,389,370; Aug. 30; v. 289; p. 911.
- Metzger, Myer, Chicago, Ill. Display and vending case. No. 1,390,632; Sept. 13; v. 290; p. 308.
- Metzger, Myer, Chicago, Ill. Sign-holder. No. 1,400,564; Dec. 20.
- Metzger, Reinhard F., Brooklyn, N. Y. Pliers. No. 1,389,371; Aug. 30; v. 289; p. 911.
- Metzger, William E., assignor to C. A. Metzger, Rutland, Vt. Awning. No. 1,400,089; Dec. 13.
- Metzler, Fredrick, Philadelphia, Pa. Cap-remover. No. 1,376,562; May 3; v. 286; p. 35.
- Metzler, George H., Halifax, Nova Scotia, Canada. Train-stop. No. 1,388,283; Aug. 23; v. 289; p. 641.
- Metzner, Albert W. (See Sherman, J. Q., and Metzner.)
- Metzner, Albert W., assignor to The Standard Register Company, Dayton, Ohio. Autographic register. No. 1,394,436; Oct. 18.
- Metzner, Edward. (See Brauner, P., and Metzner.)
- Meuschke, William L., Lincoln, Mo. Carriage-return mechanism for typewriters. No. 1,396,865; Nov. 15.
- Meushaw, Thomas H., and C. J. Diez, Baltimore, Md. Fire-plug. No. 1,381,729; June 14; v. 287; p. 319.
- Mevcs, Charles W., and F. G. Herrmann, assignors to Sheboygan Couch Company, Sheboygan, Wis. Davenport. No. 1,367,621; Feb. 8; v. 283; p. 204.
- Meyenberg, William H., Lemont, assignor to J. J. Bleadon, Chicago, Ill. Electromedical apparatus. No. 1,376,378; Apr. 26; v. 285; p. 712.
- Meyer, Albert J. (See Mott, A. C., Jr., and Meyer.)
- Meyer, Alfred E., Cincinnati, Ohio. Signal system. No. 1,375,059; Apr. 19; v. 285; p. 429.
- Meyer, Alfred F., assignor to Morton Corporation, Morton, Ill. Elevator structure. No. 1,395,985; Nov. 1.
- Meyer, Alfred F., assignor to Morton Corporation, Morton, Ill. Elevator. No. 1,395,986; Nov. 1.
- Meyer, August, Wellston, assignor to Handlan-Buck Manufacturing Company, St. Louis, Mo. Lamp-burner. No. 1,380,728; June 7; v. 287; p. 77.
- Meyer, August K. (See Schneider, L. A., and Meyer.)
- Meyer, Carl, Toledo, Ohio. Wrench. No. 1,390,371; Sept. 13; v. 290; p. 254.
- Meyer, Charles L., and R. O. MacMonagle, Omaha, Nebr. Concrete-column mold. No. 1,364,946; Jan. 11; v. 282; p. 217.
- Meyer, Emil R., Brooklyn, N. Y. Phonograph-record cabinet. No. 1,366,203; Jan. 18; v. 282; p. 500.
- Meyer, Ferd H., Oakland, Calif. Grouser for tractor-treads. No. 1,392,693; Oct. 4.
- Meyer, Frank A., Linn, Kans. Automatic trap-nest. No. 1,367,198; Feb. 1; v. 283; p. 63.
- Meyer, Frank W., assignor to The Oshkosh Trunk Company, Oshkosh, Wis. Drawer-locking mechanism for trunks. No. 1,374,833; Apr. 12; v. 285; p. 235.
- Meyer, Frans M., Amsterdam, Netherlands. Water-tube boiler. No. 1,391,558; Sept. 20; v. 290; p. 557.
- Meyer, Fred. (See Kuhleimer, F. J., and Meyer.)
- Meyer, Frederick, East Northport, N. Y. Collapsible core. No. 1,393,236; Nov. 29.
- Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. System of electrical transmission and distribution. No. 1,364,129; Jan. 4; v. 282; p. 16.
- Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electroionic system of control and regulation. No. 1,369,457; Feb. 22; v. 283; p. 646.
- Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controlling and regulating apparatus for dynamo-electric machines. No. 1,376,452; May 3; v. 286; p. 14.
- Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Controlling and regulating apparatus for alternating-current dynamo-electric machines. No. 1,376,453; May 3; v. 286; p. 14.
- Meyer, Friedrich W., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Inverted rectifier. No. 1,381,324; June 14; v. 287; p. 242.
- Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Frequency-changer. No. 1,394,325; Oct. 18.
- Meyer, Geo. J., Manufacturing Company. (See Meyer, George J., assignor.)
- Meyer, George, Vandyne, Wis. Lightning-rod connector. No. 1,373,519; Apr. 5; v. 285; p. 28.
- Meyer, George, assignor to L. Meyer, Seattle, Wash. Chain saw. No. 1,387,605; Aug. 16; v. 289; p. 450.
- Meyer, George J., Milwaukee, Wis. Safety-door and door attachment for elevators. No. 1,377,213; May 10; v. 286; p. 215.
- Meyer, George J., Milwaukee, Wis. Safety attachment for elevators. No. 1,386,194; Aug. 2; v. 289; p. 46.
- Meyer, George J., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis. Soaking and washing machine. No. 1,381,325; June 14; v. 287; p. 242.
- Meyer, George J., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis. Unloader for bottle-washers. No. 1,383,739; July 5; v. 288; p. 100.
- Meyer, George W., and C. A. Roos, Cincinnati, Ohio. Adjustable shore. No. 1,395,649; Nov. 1.
- Meyer, George W., and C. A. Roos, Cincinnati, Ohio. Lifting-jack. No. 1,395,650; Nov. 1.
- Meyer, Harry R., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. No. 1,368,344; Feb. 15; v. 283; p. 391.
- Meyer, Harry R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,389,150; Aug. 30; v. 289; p. 867.
- Meyer, Harry R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,396,866; Nov. 15.
- Meyer, Henry, Rhineland, Mo. Tractor. No. 1,399,639; Dec. 6.
- Meyer, Henry H., Red Wing, Minn. Grain-separator. No. 1,400,225; Dec. 13.
- Meyer, Herbert W., Chicago, Ill. Disk record. No. 1,372,822; Mar. 29; v. 284; p. 794.
- Meyer, John, Gray, Iowa. Control apparatus for tractors. No. 1,394,209; Oct. 18.
- Meyer, John F., Chicago, Ill., assignor, by mesne assignments, to Eclipse Specialty Manufacturing Company. Timer for internal-combustion engines. No. 1,392,694; Oct. 4.
- Meyer, Jules M., Paris, France. Atomizing device for internal-combustion engines. No. 1,381,730; June 14; v. 287; p. 319.
- Meyer, Katharine, assignor to O. Meyer, Carlstadt, N. J. Expanding frame for embroidery-machines. No. 1,397,322; Nov. 15.
- Meyer, Lena. (See Meyer, George, assignor.)
- Meyer, Oswald. (See Meyer, Katharine, assignor.)
- Meyer, Otto, Chicago, Ill. Drum-ear. No. 1,399,392; Dec. 6.
- Meyer, Ralph F., Freeport, Pa. Clay-press. No. 1,373,903; Apr. 5; v. 285; p. 102.
- Meyer, Ralph F., Freeport, Pa. Ignition mechanism. No. 1,392,431; Oct. 4.
- Meyer, Sam, St. Louis, Mo. Ventilator for show-window. No. 1,381,326; June 14; v. 287; p. 242.
- Meyer, Sam, St. Louis, Mo. Window-ventilator. No. 1,399,787; Dec. 13.
- Meyer, Vernon H., Cleveland, Ohio. Hydrometer. No. 1,391,000; Sept. 20; v. 290; p. 444.
- Meyer, Walter, Burgdorf, Switzerland. Manufacture of insulating fibrous webs for electric insulation purposes. No. 1,383,740; July 5; v. 288; p. 100.
- Meyer, William, *et al.* (See Newland, R. T., and Merriam, assignors.)
- Meyer, William, *et al.* (See Recktenwald, John, assignor.)
- Meyer, William, Chicago, Ill. X-ray stand and table. No. 1,371,507; Mar. 15; v. 284; p. 444.
- Meyer, William, Chicago, Ill. X-ray apparatus. No. 1,384,143; July 12; v. 288; p. 233.
- Meyer, William, Chicago, Ill. X-ray apparatus. No. 1,384,144; July 12; v. 288; p. 233.
- Meyer, William, Chicago, Ill. Therapeutic apparatus. No. 1,387,607; Aug. 16; v. 289; p. 450.
- Meyer, William, Chicago, Ill. Increasing the efficiency of X-ray tubes. No. 1,394,569; Oct. 25.
- Meyer, William, Jamestown, R. I. Deck-plate key. No. 1,384,705; July 12; v. 288; p. 350.
- Meyer, William, Crystal Lake, Ill. Safety device for automobiles. No. 1,394,437; Oct. 18.
- Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Thread-waxing device. No. 1,387,606; Aug. 16; v. 289; p. 450.
- Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,391,398; Sept. 20; v. 290; p. 525.
- Meyer, William H., Brooklyn, N. Y. Card-mount for articles of merchandise. No. 1,378,262; May 17; v. 286; p. 469.
- Meyer, William H., St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company. Drain-pan for clothes-wringer. No. 1,398,337; Nov. 29.
- Meyer, William H., St. Louis, Mo., assignor, by mesne assignments, to The Davis Sewing Machine Company. Clothes-wringer. No. 1,401,806; Dec. 27.
- Meyercord, George R., Chicago, Ill., assignor to Haskellite Manufacturing Corporation. Making long ply-wood panels. No. 1,396,971; Nov. 15.
- Meyercord, George R., Chicago, Ill., assignor to Haskellite Manufacturing Corporation. Method of and apparatus for gluing sheets edge to edge. No. 1,397,489; Nov. 15.
- Meyerhofer, Albert F., Mannheim, assignor to Dynamidon G. m. b. H., Mannheim-Waldhof, Germany. Lining for kilns. No. 1,378,710; May 17; v. 286; p. 555.
- Meyerholz, Rheinier I., Cupertino, Calif. Automobile-robe. No. 1,394,208; Oct. 18.
- Meyering, J. V., Trunk Company. (See Hamlin, Ben M., assignor.)
- Meyering, J. V., Trunk Company. (See Marcinek, Ferdinand A., assignor.)
- Meyering, J. V., Trunk Company. (See Staffa, Joseph, assignor.)
- Meyerpeter, Leo H., St. Thomas, Mo. Scoop-board for wagon-bodies. No. 1,380,233; May 31; v. 286; p. 989.
- Meyers, Albert W., Milwaukee, Wis. Automatic switch-board. No. 1,366,202; Jan. 18; v. 282; p. 500.
- Meyers, Alfred M. (See Funkhouser, V. E., and Meyers.)



## Alphabetical list of patentees—Continued.

- Meyers, Frederick O., assignor to Pacific Automotive Company, Los Angeles, Calif. Cushion-wheel. No. 1,366,540; Jan. 25; v. 282; p. 612.
- Meyers, George J. W., Minneapolis, Minn. Grass elevator and carrier attachment for lawn mowers. No. 1,369,258; Feb. 22; v. 283; p. 608.
- Meyers, Henry B., Denver, Colo. Fruit corer and cutter. No. 1,365,118; Jan. 11; v. 282; p. 251.
- Meyers, John M., Janesville, Wis. Farm-tractor. No. 1,401,629; Dec. 27.
- Meyers, M. Jay, *et al.* (See Bruner, Rudolph, assignor.)
- Meyers, Otto H., New York, N. Y. Folding convertible go-cart, high chair, and baby-jumper. No. 1,378,598; May 17; v. 286; p. 533.
- Meyers, Samuel A., and C. Parker, San Francisco, Calif. Inclosed switch. No. 1,382,210; June 21; v. 287; p. 468.
- Meyerson, Max, New York, N. Y. Card-holder. No. 1,366,818; Jan. 25; v. 282; p. 667.
- Meyfarth, Gottlieb L., Geneva, Switzerland. Control of electromagnetic track-brake systems. No. 1,399,361; Dec. 6.
- Meyfarth, John L., Brooklyn, N. Y. Coffee-urn. No. 1,376,287; Apr. 26; v. 285; p. 695.
- Meyner, Walter, New York, N. Y. Pencil. No. 1,384,706; July 12; v. 288; p. 351.
- Mezger, Charles A., Cleveland, Ohio. Index. No. 1,364,131; Jan. 4; v. 282; p. 16.
- Mezzeri, Giovanni C., Virden, Ill. Reed-protecting device. No. 1,376,213; Apr. 26; v. 285; p. 681.
- Miami Cycle & Mfg. Co., The. (See Heise, Roscoe S., assignor.)
- Miami Trailer Company, The. (See Bain, Foreé, assignor.)
- Michael, Clement W., assignor to J. I. Case Plow Works, Racine, Wis. Disk plow. No. 1,395,050; Oct. 25.
- Michael, John S., Aberdeen, Md. Transmission-lock for automobiles. No. 1,368,822; Feb. 15; v. 283; p. 484.
- Michael, Joseph W., Des Moines, Iowa. Signal Device. No. 1,378,367; May 17; v. 286; p. 488.
- Michaels, Arthur J., Akron, Ohio. Holding and dispensing device. No. 1,369,693; Feb. 22; v. 283; p. 692.
- Michaels, John, Westmount, Quebec, Canada. Desk construction. No. 1,372,626; Mar. 22; v. 284; p. 714.
- Michaels, John, Westmount, Quebec, Canada. Desk. No. 1,398,237; Nov. 29.
- Michaels, Robert, assignor to Biasco Manufacturing Company, Chicago, Ill. Store-front construction. No. 1,382,111; June 21; v. 287; p. 450.
- Michaelsen, Charles O., assignor to Michaelsen Machinery Company, Minneapolis, Minn. Rock-crusher. (Reissue.) No. 15,179; Aug. 16; v. 289; p. 558.
- Michaelsen, George and J. J. Roth, Sr., New York, N. Y. Pneumatic tire. No. 1,401,483; Dec. 27.
- Michaelsen Machinery Company. (See Michaelsen, Charles O., assignor.) (Reissue.)
- Michaelsen, William B., assignor of one-half to E. M. Klebba, Minneapolis, Minn. Briquetting-press. No. 1,372,160; Mar. 22; v. 284; p. 624.
- Michaelson, Andrew E., Portland, Ore. Cabinet for phonographic records. No. 1,388,284; Aug. 23; v. 289; p. 641.
- Michelson, Henry G., Rockford, Ill. Showcase and bracket. No. 1,371,256; Mar. 15; v. 284; p. 393.
- Michelson, Joseph M., Minneapolis, Minn. Mechanical starter for explosive-engines. No. 1,395,926; Nov. 1.
- Michalczak, Joseph, Highland Beach, N. J. Animal-trap. No. 1,390,805; Sept. 13; v. 290; p. 342.
- Michalek, Rudolph B., Newark, N. Y. Cinematograph. No. 1,370,829; Mar. 8; v. 284; p. 250.
- Michaud, Joseph O., Fort Kent, Me. Internal expanding brake. No. 1,397,225; Nov. 15.
- Michaud, Onesime E., St. Louis, Mo. Roller-bearing. No. 1,397,226; Nov. 15.
- Michel, Albert C., Granite City, Ill. Display-cabinet. No. 1,379,035; May 24; v. 286; p. 689.
- Michel, Benjamin F., Denver, Colo. Match-box. No. 1,378,711; May 17; v. 286; p. 555.
- Michel, William G., Niagara Falls, N. Y. Process and apparatus for making electrodes. No. 1,378,599; May 17; v. 286; p. 533.
- Michelin, André J., Paris, France. Automatic alarm for partially-deflated tires. No. 1,367,490; Feb. 1; v. 283; p. 121.
- Michelin, André J., Paris, assignor to Michelin & Cie. Clermont-Ferrand, France. Demountable wheel. No. 1,376,390; Apr. 26; v. 285; p. 714.
- Michelin & Cie. (See Michelin, André J., assignor.)
- Michell, Edward. (See Rice, S. P., and Michell.)
- Michelsen, Hans, Minneapolis, Minn. Shoe-sole-stitching mechanism. No. 1,369,458; Feb. 22; v. 283; p. 646.
- Michelson, S. J., *et al.* (See Bennett, Harry J., assignor.)
- Michener, Wayland D. (See Barron, W. L., and Michener.)
- Michigan Optical Company. (See Hupman, Harper M., assignor.)
- Michigan Steel Tube Products Company. (See Berg, Richard O., assignor.)
- Michigan Steel Tube Products Company. (See Berg, Simon, assignor.)
- Michigan Stove Company, The. (See Maul, Henry C., assignor.)
- Michon, Joseph H. M., Baltimore, Md. Accelerator. No. 1,383,326; July 5; v. 288; p. 14.
- Michot, Georges, Dromara, Ireland, assignor to The Fibre Corporation Limited, London, England. Flax-pulling machine. No. 1,393,951; Oct. 18.
- Midclausb, Alexander, Cleveland, Ohio. Oil-stove. No. 1,375,600; Apr. 19; v. 285; p. 531.
- Midclausb, Alexander, Mattoon, Ill. Portable telephone apparatus. No. 1,397,137; Nov. 15.
- Micucci, Nicalo, Philadelphia, Pa. Rewinding mechanism for talking-machines. No. 1,398,879; Nov. 29.
- Midboe, Gabriel, Brooklyn, assignor to International Motor Company, New York, N. Y. Drive for motor-vehicles. No. 1,372,627; Mar. 22; v. 284; p. 714.
- Midboe, Gabriel, Brooklyn, assignor to International Motor Company, New York, N. Y. Driving mechanism for motor-vehicles. No. 1,373,142; Mar. 29; v. 284; p. 858.
- Middaugh, James O. (See Hofmeister, F. J., and Middaugh.)
- Middelboe, Kristian, Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Grinding-machine. No. 1,380,112; May 31; v. 286; p. 967.
- Middeldorf, Robert, Solingen, Germany. Double-acting machine for cutting the teeth in safety-razor guards. No. 1,384,328; July 12; v. 288; p. 271.
- Middlebrooks, James M., Birmingham, Ala. Traffic-signal. No. 1,371,106; Mar. 8; v. 284; p. 302.
- Middlemiss and Brackett. (See Brackett, John C., assignor.)
- Middlemiss, Edward T., Manchester, England. Method of and means for treating finely-crushed ores and other materials. No. 1,370,898; Mar. 8; v. 284; p. 262.
- Middleton, George L. (See Gatewood, William F., assignor.)
- Middleton, Percy R., assignor of one-half to J. C. Lalor, New York, N. Y. Extracting silver. No. 1,372,973; Mar. 29; v. 284; p. 825.
- Middleton, Percy R., Los Angeles, Calif., assignor of one-half to J. C. Lalor, New York, N. Y. Roasting ores or concentrates. No. 1,376,025; Apr. 26; v. 285; p. 645.
- Middleton, Percy R., Los Angeles, Calif., assignor of one-half to J. C. Lalor, New York, N. Y. Electrolysis of copper-bearing solutions. No. 1,397,647; Nov. 22.
- Midgett, Penelton G., Dallas, Tex. Well-drilling bit. No. 1,387,733; Aug. 16; v. 289; p. 475.
- Midgley, Albert H., assignor of one-half to C. A. Vander-vell, Acton Vale, England. Electric starter for internal-combustion engines. No. 1,368,741; Feb. 15; v. 283; p. 469.
- Midgley, Ernest C., Wheatland, N. D. Snow-removing machine. No. 1,392,877; Oct. 4.
- Midgley, Ernest C., Wheatland, N. D. Dimmer. No. 1,392,878; Oct. 4.
- Midgley, Thomas, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-mold. No. 1,368,641; Feb. 15; v. 283; p. 449.
- Midgley, Thomas, Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Clip for bead-wires. No. 1,368,642; Feb. 15; v. 283; p. 449.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Covering strands with rubber. No. 1,370,339; Mar. 1; v. 284; p. 111.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Steam connection for hollow cores. No. 1,377,214; May 10; v. 286; p. 215.
- Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Collapsible core. No. 1,392,847; Oct. 4.
- Midgley, Thomas, Hampden, and R. B. Naylor, Springfield, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Treatment of rubber articles. No. 1,394,928; Oct. 25.
- Midgley, Thomas, Jr., Lancaster, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Making hydrometers. No. 1,381,929; June 21; v. 287; p. 417.
- Midgley, Thomas, Sr., Worthington, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Collapsible core. No. 1,382,007; June 21; v. 287; p. 431.
- Midgley, Thomas, Sr., Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Collapsible core. No. 1,389,892; Sept. 6; v. 290; p. 67.
- Mid-West Box Company. (See Heinrichs, Berg, assignor.)
- Midwest Engine Company. (See Schleyer, Victor, assignor.)
- Midwest Engine Company. (See Wait, Henry H., assignor.)
- Mieczesjeski, Tony. (See Drumman, J. R., and Mieczesjeski.)
- Miegel, Charles W., Jersey City, N. J. Tire-casing. No. 1,375,527; Apr. 19; v. 285; p. 518.
- Miehle Printing Press & Manufacturing Company. (See Blaine, Joseph R., assignor.)
- Miehle Printing Press & Manufacturing Company. (See Dudley, Edward F., assignor.)
- Miehle Printing Press & Manufacturing Company. (See Henderson, Carl, assignor.)
- Miehle Printing Press & Manufacturing Company. (See Stevens, Burt D., assignor.)
- Miehle Printing Press and Manufacturing Company *et al.* (See White, Joseph, assignor.)
- Miehle Printing Press and Mfg. Co. (See Rich, Frank E., assignor.)



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- Miehle, Robert, Chicago, Ill. Inking mechanism for print-ing-presses. No. 1,382,525; June 21; v. 287; p. 529.
- Miehle, Robert F., Jr., Chicago, Ill. Change-speed trans-mission mechanism. No. 1,382,526; June 21; v. 287; p. 529.
- Mielziner, William J., assignor to American Can Com-pany, New York, N. Y. Can. No. 1,372,892; Mar. 29; v. 284; p. 809.
- Mierow, Arthur W. (See Sperl, G. R., and Mierow.)
- Mierzewski, Stanislaw, Trenton, N. J. Vehicle. No. 1,369,043; Feb. 22; v. 283; p. 566.
- Mies, Frank P., and F. W. Jarvis; said Mies assignor, by direct and mesne assignments, to said Jarvis. Engine intake attachment. No. 1,380,824; June 7; v. 287; p. 96.
- Miesner, Martin D., Portland, Oreg. Combination table and bed. No. 1,391,559; Sept. 20; v. 290; p. 558.
- Miess, Charles G., and J. J. McKay, Salamanca, N. Y. Concrete-form. No. 1,397,138; Nov. 15.
- Migues, Honore, Lafayette, La. Valve. No. 1,371,638; Mar. 15; v. 284; p. 469.
- Miguet, Paul, assignor to Societe dite: Rochette Freres, St. Julien-Montricher, France. Preparation of pure alkaline aluminates. No. 1,376,563; May 3; v. 286; p. 35.
- Mihalkevich, Steve. (See Domanski, Louis, assignor.)
- Mikaelson, Erik W., Easton, Pa., assignor to Treadwell Engineering Company. Roller-table. No. 1,371,322; Mar. 15; v. 284; p. 406.
- Mikaelson, Erik W., Easton, Pa., assignor to Treadwell Engineering Company. Shaft-coupling. No. 1,372,444; Mar. 22; v. 284; p. 679.
- Mikanovich, Alexander C., Cleveland, Ohio. Dirigible. No. 1,395,051; Oct. 25.
- Mikiel, Sabin, Elizabethport, N. J. Portable bed-spring. No. 1,394,326; Oct. 18.
- Mikolasek, Venceslaus F., Lankin, N. D. Indicator for igni-tion and lighting systems. No. 1,391,560; Sept. 20; v. 290; p. 558.
- Mikolasek, Venceslaus F., Lankin, N. D. Ignition control. No. 1,398,789; Nov. 29.
- Mikulecky, Vaclav, Verdigr, Nebr. Mud-grip for automo-bile-wheels. No. 1,375,716; Apr. 26; v. 285; p. 586.
- Mikulic, Milos N., Kansas City, Mo. Trolley-wire switch. No. 1,396,690; Nov. 8.
- Milam, Robert H., assignor to Long Staple Cotton Gin Manufacturing Company, Helena, Ark. Cotton-gin. No. 1,367,491; Feb. 1; v. 283; p. 121.
- Milam, Stanley, Augusta, Mont. Curling-iron heater. No. 1,385,465; July 26; v. 288; p. 663.
- Milam, Willie, Winston, Ga. Compressed-air pump. No. 1,397,877; Nov. 22.
- Milan, Horace R., Columbia, Tenn. Wrench. No. 1,400,226; Dec. 13.
- Miles, Frederick C., San Francisco, Calif. Auto attach-ment. No. 1,392,432; Oct. 4.
- Miles, George B., Washington, Ill. Baseball-bat and mak-ing same. No. 1,367,492; Feb. 1; v. 283; p. 122.
- Miles, George W., Belmont, Mass. Treating paper with a paraffin. No. 1,367,274; Feb. 1; v. 283; p. 78.
- Miles, George W., Sandwich, Mass. Modifying resin and the product thereof. No. 1,401,348; Dec. 27.
- Miles, George W., Sandwich, Mass., assignor to American Cellulose and Chemical Manufacturing Company, Ltd., New York, N. Y. Treating cellulose acetate and the product thereof. No. 1,394,752; Oct. 25.
- Miles, Harry B., Elwood, Victoria, Australia. Talking-machine. No. 1,371,508; Mar. 15; v. 284; p. 444.
- Miles, John G., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Book-cover. No. 1,365,334; Jan. 11; v. 282; p. 292.
- Miles, John G., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Book-cover. No. 1,365,335; Jan. 11; v. 282; p. 292.
- Miles, William T. (See Dicken, Isham S., assignor.)
- Miley, Charles S. (See Mackey, John C., assignor.)
- Milhabn, Frederick, Dwight, Ill. Stirring device for cal-drons. No. 1,401,806; Dec. 27.
- Milhaupt, Edgar A., Appleton, Wis. Bumper-bracket. No. 1,390,633; Sept. 13; v. 290; p. 309.
- Milnowski, Arthur S., Brockport, N. Y. Calculating-ma-chine. No. 1,385,700; July 26; v. 288; p. 711.
- Militello, Dominick, Buffalo, N. Y. Plow-lifting mecha-nism for tractors. No. 1,376,894; May 3; v. 286; p. 98.
- Militor Corporation, The. (See Dunham, G. W., and Freeman, assignors.)
- Militor Corporation, The. (See Dunham, George W., assignor.)
- Militor Corporation. (See Neuteboom, Boudewijn B., as-signor.)
- Milk Dealers Crate Corporation. (See Foreman, Amos L., assignor.)
- Milkes, Leah G., assignor to Venus Manufacturing Com-pany, Minneapolis, Minn. Sleeve-closing flap. No. 1,365,526; Jan. 11; v. 282; p. 329.
- Milkes, Leah G., Minneapolis, Minn. Child's sleeping-garment. No. 1,393,900; Oct. 18.
- Milkey, Lester E., Sandusky, Ohio. Paper-making ma-chine. No. 1,387,061; Aug. 9; v. 289; p. 291.
- Milks, Elbert D., East Otto, N. Y. Garment-supporter. No. 1,364,784; Jan. 4; v. 282; p. 142.
- Mill, Anton, Sr. (See Hake, C. F., Jr., and Mill.)
- Millar, George A., Ensley, Ala. Air-cushion nozzle. No. 1,389,593; Sept. 6; v. 290; p. 7.
- Millard, Charles C., O'Neill, Nebr. Roofing. No. 1,376,215; Apr. 26; v. 285; p. 681.
- Millard, J. Brooks, et al. (See Gould, Edwin J., assignor.)
- Millard, Robert K., Pittsburgh, Pa. Puzzle. No. 1,380,998; June 7; v. 287; p. 129.
- Miller, A. D. (See Rystedt, Ingemar K., assignor.)
- Miller, Dr. A. L. (See Humason, G. A., and Burtchel, assignors.)
- Miller, Abel and P., Harrisonburg, Va. Safety-cabinet. No. 1,382,527; June 21; v. 287; p. 529.
- Miller, Adolph, Kirkwood, Mo. Towel-cabinet. No. 1,387,932; Aug. 16; v. 289; p. 515.
- Miller, Albert F., Kansas City, Kans. Joint-lock. No. 1,376,150; Apr. 26; v. 285; p. 669.
- Miller, Albert H., Miltons, Minn. Grain-separator. No. 1,390,806; Sept. 13; v. 290; p. 342.
- Miller, Albert P., Newcastle, Ind. Clamp-dog. No. 1,376,026; Apr. 26; v. 285; p. 645.
- Miller, Allen W., Los Angeles, Calif. Lawn cutter and cultivator. No. 1,370,219; Mar. 1; v. 284; p. 88.
- Miller, Alphons G., and C. McMullen, Flemington, N. J. Lens. No. 1,385,570; July 26; v. 288; p. 684.
- Miller, Amundus A. (See Evans, F. W., and Miller.)
- Miller, Andrew B., assignor of one-third to E. Christen-son, Baldwin, Wis. Fruit-jar-cover remover. No. 1,396,867; Nov. 15.
- Miller, Andrew D., Johnstown, Pa. Fluid actuating and control engine. No. 1,372,764; Mar. 29; v. 284; p. 782.
- Miller, Andrew H., and R. E. McCaffrey, Detroit, Mich. Gage or indicator for fluid-holding tanks. No. 1,396,273; Nov. 8.
- Miller-Argue, Robert A., Essendon, Melbourne, Victoria, Australia. Safety starting device for internal-combus-tion engines. No. 1,390,149; Sept. 6; v. 290; p. 119.
- Miller-Argue, Robert A., Essendon, Melbourne, Victoria, Australia. Apparatus for cranking or starting internal-combustion engines. No. 1,396,647; Nov. 8.
- Miller, Arthur, Brooklyn, N. Y. Garden-tool. No. 1,385,089; July 19; v. 288; p. 510.
- Miller, Arthur C., and E. H. Perry, assignors to Sears, Roebuck and Co., Chicago, Ill. Spray-head. No. 1,401,176; Dec. 27.
- Miller, Arthur E., Sacramento, Calif. Combination-lock. No. 1,370,830; Mar. 8; v. 284; p. 250.
- Miller, Arthur E., Sacramento, Calif. Steering-post-lock-ing means. No. 1,384,707; July 12; v. 288; p. 351.
- Miller, Arthur E., Sacramento, Calif. Safety lock mecha-nism. No. 1,394,327; Oct. 18.
- Miller, Arthur H. (See Miller, Fredrick J. and A. H.)
- Miller, August M., Mankato, Minn. Meat-smoking ap-paratus. No. 1,399,362; Dec. 6.
- Miller, Austin E., Cheney, Wash. Weeder. No. 1,388,362; Aug. 23; v. 289; p. 657.
- Miller, Barnet, Rockville, Conn. Paper-roll-dispensing ma-chine. No. 1,380,729; June 7; v. 287; p. 77.
- Miller-Bryant-Pierce Company, The. (See Tanner, Ben-jamin H., assignor.)
- Miller, Carl D., Rockville, Mass. Electrical measuring instrument. No. 1,397,441; Nov. 15.
- Miller, Carl P., Fargo, N. D. Hat-hanger. No. 1,390,372; Sept. 13; v. 290; p. 254.
- Miller-Chapman Company. (See Chapman, Earle E., as-signor.)
- Miller, Charles, New York, N. Y. Time combination-lock. No. 1,384,897; July 12; v. 288; p. 285.
- Miller, Charles E., Anderson, Ind. Roller for treating rubber and rubber substitutes. No. 1,364,132; Jan. 4; v. 282; p. 16.
- Miller, Charles E., Anderson, Ind. Tube-splice vulcanizer. No. 1,364,133; Jan. 4; v. 282; p. 17.
- Miller, Charles E., Anderson, Ind. Tire-casing. No. 1,393,952; Oct. 18.
- Miller, Charles E., Pittsburgh, Pa. Supporting-bracket. No. 1,385,638; July 26; v. 288; p. 698.
- Miller, Charles F., Columbus, Ohio. Stool. No. 1,398,935; Nov. 29.
- Miller, Charles E., assignor to Universal Arch Company, Chicago, Ill. Locomotive-arch. No. 1,364,572; Jan. 4; v. 282; p. 101.
- Miller, Charles H., Liberty township, Jefferson county, Iowa. Man-lift. No. 1,382,211; June 21; v. 287; p. 468.
- Miller, Charles J. (See Mertens, Louis R., assignor.)
- Miller, Charles J., Moselle, Miss. Automatic train-control device. No. 1,370,472; Mar. 1; v. 284; p. 136.
- Miller, Chester D. (See Mason, E. W., and Miller.)
- Miller, Chester D., Los Angeles, Calif. Auxiliary wind-shield. No. 1,386,418; Aug. 2; v. 289; p. 89.
- Miller, Clark W., Janesville, Wis. Pile-driver. No. 1,380,072; May 31; v. 286; p. 959.
- Miller, Constantine G., assignor to Meaker Galvanizing Company, Chicago, Ill. Electro-galvanizing-machine. No. 1,375,309; Apr. 19; v. 285; p. 477.
- Miller, Constantine G., assignor to Meaker Galvanizing Company, Chicago, Ill. Galvanizing-machine. No. 1,378,888; May 24; v. 286; p. 661.
- Miller, Delbert A. (See Miller, John R., assignor.)
- Miller, Donald C., Cleveland, Ohio. Signaling device. No. 1,396,136; Nov. 8.



- Miller, Earl L., Overbrook, Kans. Timer-brush. No. 1,377,361; May 10; v. 286; p. 245.
- Miller, Eben. (See Roessel, Frederick V., assignor.)
- Miller, Edgar T., Greensburg, Pa. Steering and coupling device for plows. No. 1,391,963; Sept. 27; v. 290; p. 712.
- Miller, Edward & Company. (See Allworth, Arthur B., assignor.)
- Miller, Edward F., Bison, Kans. Straw-distributor for harvester-threshers. No. 1,373,667; Apr. 5; v. 285; p. 55.
- Miller, Edward H., Los Angeles, Calif. Calendar-calculator. No. 1,370,220; Mar. 1; v. 284; p. 88.
- Miller, Edward R., Rural Retreat, Va. Harrow. No. 1,366,819; Jan. 25; v. 282; p. 667.
- Miller, Edwin L., Kansas City, Mo. Gas-generating oil-burner. No. 1,387,506; Aug. 16; v. 289; p. 430.
- Miller, Edwin P., assignor to Hannifin Manufacturing Company, Chicago, Ill. Chuck for machine-tools. No. 1,400,306; Dec. 13.
- Miller, Edwin S., Massillon, Ohio. Vehicle-drive. No. 1,394,328; Oct. 18.
- Miller, Eli J., York, Pa. Nail holding and spacing device. No. 1,378,550; May 17; v. 286; p. 521.
- Miller, Eli J., York, Pa. Knife director and guide-gage. No. 1,378,551; May 17; v. 286; p. 524.
- Miller, Eli J., York, Pa. Nail-strip holder. No. 1,383,993; July 5; v. 288; p. 152.
- Miller, Ellen J., Colorado Springs, Colo. Footrest for sewing-machines. No. 1,368,957; Feb. 15; v. 283; p. 570.
- Miller, Emil B., Schulenburg, Tex. Liquid-dispensing apparatus. No. 1,376,348; Apr. 26; v. 285; p. 707.
- Miller, Ernest W., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Valve mechanism. No. 1,376,109; Apr. 26; v. 285; p. 661.
- Miller, Frank, Plunger Company. (See Miller, Frank J., assignor.)
- Miller, Frank E., New York, N. Y. Electrical system for producing musical tones. No. 1,376,288; Apr. 26; v. 285; p. 695.
- Miller, Frank E., Durand, Mich. Cylinder-head remover. No. 1,390,960; Sept. 13; v. 290; p. 374.
- Miller, Frank H., Racine, Wis. Micrometric indicator. No. 1,388,739; Aug. 23; v. 289; p. 730.
- Miller, Frank H., Milwaukee, Wis. Micrometer-caliper. No. 1,388,740; Aug. 23; v. 289; p. 731.
- Miller, Frank J., Wichita Falls, assignor, by mesne assignments, to Frank Miller Plunger Company, Dallas, Tex. Pump-plunger. No. 1,393,953; Oct. 18.
- Miller, Frank L., Meadville, Pa. Adjustable hand-reamer. No. 1,374,754; Apr. 12; v. 285; p. 307.
- Miller, Frank R., Springfield, Ill. Road-drag. No. 1,385,739; July 26; v. 288; p. 729.
- Miller, Frank S., St. Louis, Mo. Fuel-saving device. No. 1,392,695; Oct. 4.
- Miller, Frank S. W., Syracuse, N. Y. Trailer or wagon. No. 1,381,327; June 14; v. 287; p. 243.
- Miller, Frank T., *et al.* (See Cooper, Leonard, assignor.)
- Miller, Fred W., Kenmore, assignor to Climax Cabinet Company Inc., Buffalo, N. Y. Piano-player-roll container. No. 1,374,462; Apr. 12; v. 285; p. 251.
- Miller, Frank W., assignor of one-half to C. D. Bauers, Chicago, Ill. Separator. No. 1,396,939; Nov. 15.
- Miller, Franklin A., and B. M. Tanner, St. Anthony, Idaho. Collapsible camp-bed frame. No. 1,399,363; Dec. 6.
- Miller, Fred J., Silver City, Iowa. Fruit-picker. No. 1,387,064; Aug. 9; v. 289; p. 291.
- Miller, Frederic R., Brooklyn, assignor to Art Color Motion Picture Co., New York, N. Y. Color cinematography. No. 1,389,963; Sept. 6; v. 290; p. 82.
- Miller, Frederick A. (See Harrington, Frank R., assignor.)
- Miller, Frederick C., Chicago, Ill. Wheel-tire. No. 1,392,433; Oct. 4.
- Miller, Frederick H., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Approach for trolley-frogs. No. 1,370,033; Mar. 1; v. 284; p. 53.
- Miller, Frederick H., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,376,454; May 3; v. 286; p. 15.
- Miller, Frederick H., Wilksburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrolytic cell. No. 1,390,575; Sept. 13; v. 290; p. 295.
- Miller, Frederick J. and A. H., Silver City, Iowa. Fountain-paintbrush. No. 1,389,772; Sept. 6; v. 290; p. 42.
- Miller, Frederick W., Hockley Heath, England. Glass-molding. No. 1,368,958; Feb. 15; v. 283; p. 510.
- Miller, George A., Tamaroa, Ill. Railway-crossing signal. No. 1,370,831; Mar. 8; v. 284; p. 250.
- Miller, George E. (See Cantrell, E. B., and Miller.) (Re-issue.)
- Miller, George E., Oakland, Calif. Universal-joint oil-box. No. 1,382,528; June 21; v. 287; p. 529.
- Miller, George E., assignor of one-half to R. H. Miller, Meadville, Pa. Lock-nut. No. 1,371,639; Mar. 15; v. 284; p. 469.
- Miller, George L., assignor to The Gilliam Manufacturing Company, Canton, Ohio. Method of and apparatus for gaging and assorting taper pieces. No. 1,367,199; Feb. 1; v. 283; p. 63.
- Miller, George L., assignor to The Gilliam Manufacturing Company, Canton, Ohio. Roller-bearing. No. 1,392,019; Sept. 27; v. 290; p. 725.
- Miller, George M., assignor, by mesne assignments, to Slaymaker Hardware Company, Lancaster, Pa. Shackle for padlocks. No. 1,379,120; May 24; v. 286; p. 705.
- Miller, George W., Mansfield, Mo. Well-bucket. No. 1,370,840; Mar. 1; v. 284; p. 111.
- Miller, George W., Mansfield, Mo. Pipe-cutter. No. 1,392,192; Sept. 27; v. 290; p. 759.
- Miller, George W., Sacramento, Calif. Vending-machine. No. 1,377,781; May 10; v. 286; p. 325.
- Miller, Gustave, Los Angeles, Calif. Steam-boiler. No. 1,389,262; Aug. 30; v. 289; p. 889.
- Miller, H. H., Industries Company, The. (See Miller, John C., assignor.)
- Miller, Hans C., Genoa, Nebr. Crank-case breather for internal-combustion engines. No. 1,367,164; Feb. 1; v. 283; p. 56.
- Miller, Harris B., Philadelphia, Pa. Dumping hoist-vehicle. No. 1,393,151; Oct. 11.
- Miller, Harry A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Pneumatic-tire-removing apparatus. No. 1,396,707; Nov. 8.
- Miller, Harry B., assignor of one-half to S. Kauffman, Syracuse, N. Y. Relief-valve for oil-cans. No. 1,393,034; Oct. 11.
- Miller, Harry E. and J. H. Jayne, Monmouth, Ill. Hog-trough. No. 1,378,263; May 17; v. 286; p. 469.
- Miller, Harry M. (See Bost, W. D., and Miller.)
- Miller, Henry. (See Smith, R. S., Audren, and Miller.)
- Miller, Henry F., & Sons Piano Company. (See Hall, C. W., and Wheeler, assignors.)
- Miller, Henry L. and W. L. Smith, Pascagoula, Miss. Draining and filing apparatus. No. 1,369,902; Mar. 1; v. 284; p. 28.
- Miller, Henry L., Knoxville, Tenn. Trolley-wire support. No. 1,389,773; Sept. 6; v. 290; p. 43.
- Miller, Henry L., assignor of one-half to W. F. Kappey, St. Louis, Mo. Spark-intensifier. No. 1,370,341; Mar. 1; v. 284; p. 111.
- Miller, Henry M. A., San Francisco, Calif. Tire-guard. No. 1,387,797; Aug. 16; v. 289; p. 489.
- Miller, Herman. (See Krick, G. W., and Miller.)
- Miller, Herman, *et al.* (See Miller, Isidore L., assignor.)
- Miller, Howard C., Toledo, Ohio. Paint measuring and filling machine. No. 1,391,488; Sept. 20; v. 290; p. 543.
- Miller, Isidore L., assignor of one-fourth to H. Miller, one-fourth to N. Miller, and one-fourth to N. Miller, New York, N. Y. Protective guard for the tools of cutting and punching machines, &c. No. 1,387,553; Aug. 16; v. 289; p. 440.
- Miller, Jacob H., San Luis Obispo, Calif. Tire-retreading apparatus and retreading tire-casings. No. 1,375,528; Apr. 19; v. 285; p. 518.
- Miller, Jacob H., Cresson, Pa. Grease-cup. No. 1,393,304; Oct. 11.
- Miller, Jacob W., Hanover, Pa. Radiator-core. No. 1,394,857; Oct. 25.
- Miller, James C., Pittsburgh, and A. Isles, Swissvale, Pa., assignors to The W. R. Miller Company. Gas-producer. No. 1,373,443; Apr. 5; v. 285; p. 12.
- Mills, James E., St. Louis, Mo. Screwdriver. No. 1,394,438; Oct. 18.
- Miller, James M., Jersey City, N. J. Valve for controlling the flow of fluids and gases under pressure. No. 1,374,860; Apr. 12; v. 285; p. 327.
- Miller, Jesse E., Knoxville, Tenn. Sewing-machine. No. 1,397,052; Nov. 15.
- Miller, Jesse G., Superior, Wis. Adjusting-table. No. 1,401,427; Dec. 27.
- Miller, Jesse L. (See Janney, W. E., Fiscel, and Miller.)
- Miller, Joe, Little Rock, Ark. Gas-burner. No. 1,383,741; July 5; v. 288; p. 101.
- Miller, Joe, Buffalo, N. Y. Valve-grinder. No. 1,384,624; July 12; v. 288; p. 333.
- Miller, John, Rantoul, Ill. Burglar-alarm. No. 1,371,181; Mar. 8; v. 284; p. 316.
- Miller, John A., Los Angeles, Calif. Windshield. No. 1,371,703; Mar. 15; v. 284; p. 489.
- Miller, John A., Homewood, Ill. Pleasure-railway structure. No. 1,373,754; Apr. 5; v. 285; p. 72.
- Miller, John A., Homewood, Ill. Amusement structure. No. 1,380,730; June 7; v. 287; p. 77.
- Miller, John A., Homewood, Ill. Amusement structure. No. 1,380,731; June 7; v. 287; p. 77.
- Miller, John A., Homewood, Ill. Pleasure-railway structure. No. 1,380,732; June 7; v. 287; p. 77.
- Miller, John A., South San Francisco, Calif. Device for attaching shackles to submerged objects. No. 1,388,363; Aug. 23; v. 289; p. 657.
- Miller, John A., Tarrytown, N. Y. Oven-wall construction. No. 1,393,954; Oct. 18.
- Miller, John A., Waukegan, assignor to Laurence R. Wilder, Chicago, Ill. Control-circuits for operating block-signaling devices and the like upon railways. No. 1,379,592; May 24; v. 286; p. 794.
- Miller, John C. (See Tuttle, E. H., Miller, and Baldwin.)



*Alphabetical list of patentees—Continued.*

- Miller, John C., Covington, Ky., assignor, by mesne assignments, to The H. H. Miller Industries Company, Canton, Ohio. Intermitting driving device for bottle-feeding mechanism. No. 1,373,143; Mar. 29; v. 284; p. 858.
- Miller, John C., assignor to The Willys-Overland Company, Toledo, Ohio. Means for supporting automobiles in freight-cars. No. 1,379,773; May 31; v. 286, p. 902.
- Miller, John C., Covington, Ky., assignor to The Evaporating and Drying Machinery Company, Cincinnati, Ohio. Food product obtained from brewers' yeast. No. 1,391,561; Sept. 20; v. 290; p. 558.
- Miller, John C., Covington, Ky., assignor to The Evaporating and Drying Machinery Company, Cincinnati, Ohio. Food product obtained from brewers' yeast. No. 1,391,562; Sept. 20; v. 290; p. 558.
- Miller, John F., *et al.* (See La Gier, August F., assignor.)
- Miller, John H., *et al.* (See Dolbear, Clinton E., assignor.)
- Miller, John J. A., Denver, Colo. Fuel-saving attachment for furnaces. No. 1,379,873; May 31; v. 286; p. 921.
- Miller, John K., Marshall, Minn. Tractor-hitch. No. 1,379,874; May 31; v. 286; p. 921.
- Miller, John O. (See Cooke, S. H., and Miller, assignors.)
- Miller, John R., Spokane, assignor of one-half to D. A. Miller, Thornton, Wash. Truck-coupling. No. 1,395,288; Nov. 1.
- Miller, John W., Seattle, Wash. Liquid gage and indicator. No. 1,381,212; June 14; v. 287; p. 222.
- Miller, John Z., Indianapolis, Ind. Tilting-headlight construction. No. 1,376,962; May 3; v. 286; p. 111.
- Miller, Joseph, Albany, N. Y. Piston-ring. No. 1,370,342; Mar. 1; v. 284; p. 111.
- Miller, Joseph C., North St. Paul, Minn. Combination spark-plug-testing and gap-adjusting device. No. 1,385,222; July 19; v. 288; p. 537.
- Miller, Joseph E., Roanoke, Va. Traffic director. No. 1,368,185; Feb. 8; v. 283; p. 311.
- Miller, Lawrence J., and W. W. Christian, St. Louis, Mo. Automobile-signal. No. 1,390,150; Sept. 6; v. 290; p. 119.
- Miller, Lee A. (See Payne, L. M., Miller, and Douglas.)
- Miller, Leonard, Whitefield, England, assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,370,034; Mar. 1; v. 284; p. 53.
- Miller, Lewis, and W. J. Griffith, Glenmary, Tenn. Railway-gate. No. 1,386,581; Aug. 2; v. 289; p. 120.
- Miller, Lewis B. (See Kennedy, William H., assignor.)
- Miller Lock Company. (See Soley, Frank, assignor.)
- Miller, Louis A., assignor to Winchester Repeating Arms Company, New Haven, Conn. Hand-lamp switch. No. 1,368,278; Feb. 15; v. 283; p. 378.
- Miller, Louis G., Westmont borough, Pa. Car-reinforcement and door-hinge. No. 1,377,716; May 10; v. 286; p. 311.
- Miller, Louis G., Westmont borough, Pa. Combined stiffener and car-door hinge. No. 1,377,717; May 10; v. 286; p. 311.
- Miller, Louis G., Westmont borough, Pa. Angle-cock holder. No. 1,381,577; June 14; v. 287; p. 290.
- Miller, Louis G., Westmont borough, Pa. Holder for angle-cocks. No. 1,381,578; June 14; v. 287; p. 290.
- Miller, Louis G., and E. C. Long, Westmont borough, Pa. Cross-tie for railway-cars. No. 1,394,425; Oct. 18.
- Miller, Louis P., and F. E. Johnston, Phoenixville, Pa. Box-taping machine. No. 1,379,469; May 24; v. 286; p. 771.
- Miller, Marie, Ottawa, Ontario, Canada. Electric hair-curler. No. 1,400,305; Dec. 13.
- Miller, Marinus L., Sourabaya, Java. Mechanical digger. No. 1,366,741; Jan. 25; v. 282; p. 651.
- Miller, Mary A., Lancaster, Pa. Cake-baking pan. No. 1,388,364; Aug. 23; v. 289; p. 658.
- Miller, Max, New York, N. Y. Ball-cavity blower. No. 1,399,068; Dec. 6.
- Miller, Max C., Cumberland Hill, assignor to Jenckes Knitting Machine Company, Pawtucket, R. I. Circular-knitting machine. No. 1,374,163; Apr. 5; v. 285; p. 151.
- Miller, Minnie, administratrix. (See Miller, William G.)
- Miller, Minnie, *et al.* (See Miller, William G., assignor.)
- Miller, Nathan, *et al.* (See Miller, Isidore L., assignor.)
- Miller, Norman, *et al.* (See Miller, Isidore L., assignor.)
- Miller, Otto A., Detroit, Mich. Wheel-dressing tool. No. 1,387,427; Aug. 9; v. 289; p. 363.
- Miller, Paul J. (See Dubicki, K. S., and Miller.)
- Miller, Peter, Springdale, Wash. Tie-puller. No. 1,400,692; Dec. 20.
- Miller, Phillip. (See Miller, Abel and P.)
- Miller, Ralph, Boulder, Colo. Animal-stall. No. 1,373,904; Apr. 5; v. 285; p. 102.
- Miller, Ransom H. (See Miller, George E., assignor.)
- Miller, Raymond, St. Louis, Mo. Stock-car partition. No. 1,386,419; Aug. 2; v. 289; p. 90.
- Miller, Robert C., Mayworth, N. C. Chain wrench. No. 1,373,255; Mar. 29; v. 284; p. 881.
- Miller, Robert E., Inc. (See Belknap, Wiber C., assignor.)
- Miller, Robert M., Milwaukee, Wis. Vise. No. 1,392,434; Oct. 4.
- Miller, Robert N., Altoona, Pa. Signal device for miniature electric railways. No. 1,378,421; May 17; v. 286; p. 499.
- Miller, Robert W., Wilmington, Del. Resilient wheel. No. 1,398,880; Nov. 29.
- Miller, Royal R., assignor, by mesne assignments, to Miller Traction Tread Company, Chicago, Ill. Tractor-wheel. No. 1,373,905; Apr. 5; v. 285; p. 102.
- Miller Rubber Company, The. (See Brucker, Ferdinand E., assignor.)
- Miller Rubber Company, The. (See Brundage, James W., assignor.)
- Miller Rubber Company, The. (See Flemming, Charles F., assignor.)
- Miller Rubber Company, The. (See Griffiths, R. T., Anderson, and Goodwin, assignors.)
- Miller Rubber Company, The. (See Maranville, Harvey F., assignor.)
- Miller Rubber Company, The. (See Ofensend, Chase F., assignor.)
- Miller Rubber Company, The. (See Riley, Ralph E., assignor.)
- Miller, Rudolph. (See Stridinger, F., and Miller.)
- Miller, Rudolph W., assignor to Orange Contracting & Milling Co., Orange, Calif. Combination lunch-kit and folding table. No. 1,376,027; Apr. 26; v. 285; p. 646.
- Miller, Rufus B., Walla Walla, Wash. Undercurrent-power accumulator. No. 1,368,042; Feb. 8; v. 283; p. 284.
- Miller, Rufus E., Pocono Pines, Pa. Rotary internal-combustion engine. No. 1,380,404; June 7; v. 287; p. 15.
- Miller, Russell G., Pittsburgh, Pa., assignor to The W. R. Miller Company. Mechanical coal-feeder. No. 1,372,765; Mar. 29; v. 284; p. 782.
- Miller, Samuel J., Winter Haven, Fla. Tractor-propelled spraying apparatus. No. 1,377,847; May 10; v. 286; p. 338.
- Miller, Samuel M. D., Detroit, Mich. Clutch. No. 1,400,565; Dec. 20.
- Miller Saw-Trimmer Company. (See Cope, Charles G., assignor.)
- Miller Saw-Trimmer Company. (See Garwood, William M., assignor.)
- Miller Saw-Trimmer Company. (See Smith, Walter H., assignor.)
- Miller, Silas A. (See Randell, Victor E., assignor.)
- Miller, Stuart P., Philadelphia, Pa., assignor to The Barrett Company. Preparing resin. No. 1,395,968; Nov. 1.
- Miller, Stuart P., and F. H. Rhodes, Philadelphia, Pa., assignors to The Barrett Company. Production of resins. No. 1,365,423; Jan. 11; v. 282; p. 309.
- Miller, Theodore. (See Webb, C. M., and Miller.)
- Miller, Thomas S., South Orange, N. J. Cableway. No. 1,401,271; Dec. 27.
- Miller, Tony S., Ryde, Calif. Snap-pocket for truck-stakes. No. 1,398,110; Nov. 22.
- Miller Traction Tread Company. (See Miller, Royal R., assignor.)
- Miller Train Control Corporation, The. (See Murray, William B., assignor.)
- Miller, Valentine H., St. Louis, Mo. Adjustable brush-holder. No. 1,377,215; May 10; v. 286; p. 215.
- Miller, W. R., Company, The. (See Miller, J. C., and Isles, assignors.)
- Miller, W. R., Company, The. (See Miller, Russell G., assignor.)
- Miller, Walter F., Dayton, Ohio. Wrench. No. 1,395,052; Oct. 25.
- Miller, Walter R., Christiana, Pa. Wrist-pin. No. 1,373,345; Mar. 29; v. 284; p. 899.
- Miller, Vibur J., Newark, N. J. Automobile thief-alarm. No. 1,387,793; Aug. 16; v. 289; p. 489.
- Miller, William, Duston-on-Tyne, England. Table game. No. 1,371,704; Mar. 15; v. 284; p. 489.
- Miller, William, assignor to Amesbury Brass & Foundry Company, Amesbury, Mass. Window-fastener. No. 1,387,860; Aug. 16; v. 289; p. 501.
- Miller, William B., Schulenburg, Tex. Trap. No. 1,366,059; Jan. 18; v. 282; p. 473.
- Miller, William C. J., Philadelphia, Pa. Combined window shade and curtain fixture. No. 1,376,385; Apr. 26; v. 285; p. 713.
- Miller, William E., Renton, Wash. Composition for rubber finish and process. No. 1,400,090; Dec. 13.
- Miller, William G., Raynham, Mass. Nose-guard for spectacles. No. 1,393,152; Oct. 11.
- Miller, William G., deceased, by M. Miller, administratrix, assignor to C. M. Hardenbergh, H. Vilm, P. Pandemvalvy, and M. Miller, Kansas City, Mo. Device for aerating and maturing flour. No. 1,376,110; Apr. 26; v. 285; p. 662.
- Miller, William H., Canton, Ohio. Hot-water bottle. No. 1,372,893; Mar. 29; v. 284; p. 809.
- Miller, William H., Canton, Ohio. Water-bottle. No. 1,374,088; Apr. 5; v. 285; p. 138.
- Miller, William J. (See Williams, H. O., and Miller.)
- Miller, William J., Swissvale borough, Pa. Mechanism for forming glassware. No. 1,400,621; Dec. 20.
- Miller, William L., assignor to Gisholt Machine Company, Madison, Wis. Reamer-head. No. 1,399,142; Dec. 6.
- Miller, William S., San Diego, Calif. Coffee-can and attachment. No. 1,394,210; Oct. 18.
- Millet, Charles W., Evansville, Ind. Caster-wheel and making same. No. 1,397,171; Nov. 15.



*Alphabetical list of patentees—Continued.*

- Milliken, Foster, *et al.*, trustees. (See Milliken, Foster, assignor.)
- Milliken, Foster, Lawrence, N. Y., assignor to F. Milliken, S. F. Weaver, and J. M. Repplier, as trustees. Alloy. No. 1,377,089; May 3; v. 285; p. 135.
- Milliken, Foster, Lawrence, N. Y., assignor to F. Milliken, S. F. Weaver, and J. M. Repplier, as trustees. Alloy. No. 1,385,223; July 19; v. 288; p. 538.
- Milliken, Foster, Lawrence, N. Y., assignor to F. Milliken, S. F. Weaver, and J. M. Repplier, as trustees. Alloy. No. 1,393,388; Oct. 11.
- Milliken, Frank G., Enumclaw, Wash. Rail-securing device. No. 1,377,424; May 10; v. 286; p. 256.
- Milliken, Humphreys, New York, N. Y. Dust-separator. No. 1,388,741; Aug. 23; v. 289; p. 731.
- Milliken, Humphreys, assignor of one-half to J. B. Taylor, New York, N. Y. Centrifugal dust-separator. No. 1,372,714; Mar. 29; v. 284; p. 772.
- Milliken, Isaac H. (See George, E. Jr., and Milliken.)
- Milliken, John A., Bayonne, assignor to J. E. Marsden, Atlantic City, N. J. Ornamenting glass articles. No. 1,396,691; Nov. 8.
- Mills, Linn W., Kansas City, Mo. Damper-regulator. No. 1,379,832; May 31; v. 286; p. 914.
- Millner, Edgar, St. Louis, Mo. Heater for gasolene-supply pipes. No. 1,399,393; Dec. 6.
- Millner, Isaac B., Washington, D. C. Hand-operated air-dash washer. No. 1,378,600; May 17; v. 286; p. 533.
- Mills, Americus C., Jr., deceased; Minnie C. Mills executrix, Rochester, N. Y. Easel. No. 1,399,507; Dec. 6.
- Mills Belt Company. (See Batchelder, Frank R., assignor.)
- Mills Belt Company. (See Jennings, Victor H., assignor.)
- Mills Belt Company. (See Lethern, Albert A., assignor.)
- Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electromagnet brake. No. 1,368,345; Feb. 15; v. 283; p. 391.
- Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Current-collecting device. No. 1,378,049; May 17; v. 286; p. 429.
- Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Short-circuiting and brush-lifting device for dynamo-electric machines. No. 1,392,193; Sept. 27; v. 290; p. 759.
- Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making current-collector rings. No. 1,393,564; Oct. 11.
- Mills, Clarence A., Cincinnati, Ohio. Blood-coagulation medium. No. 1,397,896; Nov. 22.
- Mills, Claud E., Des Moines, Iowa. Transmission-gearing. No. 1,397,442; Nov. 15.
- Mills, David, Seattle, Wash. Throttle-pedal. No. 1,395,651; Nov. 1.
- Mills, Dayton M., Armada, Mich. Airplane. No. 1,380,576; June 7; v. 287; p. 47.
- Mills, Edward F., Lynn, and L. H. Teel, Salem, Mass., assignors to A. Schrader's Son, Inc., Brooklyn, N. Y. Apparatus for automatically controlling the operation of air-pumps. No. 1,366,204; Jan. 18; v. 282; p. 501.
- Mills, Gregg K., Chicago, Ill. Phonograph-transmitter. No. 1,382,212; June 21; v. 287; p. 468.
- Mills, Herbert H., Chicago, Ill. Permanent binder for paper sheets. No. 1,372,161; Mar. 22; v. 284; p. 625.
- Mills, Herbert S. (See Fredrikson, Carl E., assignor.)
- Mills, Herbert S. (See Sandell, Henry K., assignor.)
- Mills, Herbert S., Chicago, Ill. Control mechanism for coin-operated devices. No. 1,382,308; June 21; v. 287; p. 487.
- Mills, Isaac H. (See Crouse, G. B., and Mills.)
- Mills, Isaac H., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Constructing secondary members for induction-motors. No. 1,371,569; Mar. 15; v. 284; p. 457.
- Mills, Isaac H., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Constructing secondary members for induction-motors. No. 1,371,570; Mar. 15; v. 284; p. 457.
- Mills, James F., Ulvalda, Ga. Automobile-lock. No. 1,392,194; Sept. 27; v. 290; p. 759.
- Mills, James H., Gallipolis, Ohio. Inner-tube receptacle. No. 1,383,962; July 5; v. 288; p. 145.
- Mills, James M., Helena, Mont. Inner-tube carrier. No. 1,371,045; Mar. 8; v. 284; p. 290.
- Mills, John, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Radio receiving system. No. 1,385,090; July 19; v. 288; p. 510.
- Mills, John, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling. No. 1,385,091; July 19; v. 288; p. 511.
- Mills, John H. T. (See Mills, Virgil H. and J. H. T.)
- Mills, Louis D., Redwood City, Calif. Recovering valuable solution from mixtures. No. 1,385,701; July 26; v. 288; p. 711.
- Mills, Louis D., San Francisco, Calif., and T. B. Crowe, Victor, Colo., assignors to The Merrill Company, San Francisco, Calif. Cyaniding process. No. 1,387,289; Aug. 9; v. 289; p. 334.
- Mills, Minnie C., executrix. (See Mills, Americus C., Jr., assignor.)
- Mills, Mortimer B., Chicago, Ill. Weighing mechanism. No. 1,371,640; Mar. 15; v. 284; p. 469.
- Mills, Mortimer B., Chicago, Ill. Weight-supporting platform. No. 1,384,478; July 12; v. 288; p. 302.
- Mills, Oscar L., Easton, Pa. Uniting alloy steel to carbon steel. No. 1,376,963; May 3; v. 286; p. 111.
- Mills, Stephen D., and H. Paul, Oklahoma, Okla. Automobile-tire filler. No. 1,396,648; Nov. 8.
- Mills, T. J., and E. T. Morris, London, England, assignor to R. Hoe and Co., New York, N. Y. Printing-machine folding-cylinder. No. 1,365,933; Jan. 18; v. 282; p. 449.
- Mills, Virgil H., Hubbard, Tex. Oil-burner. No. 1,387,800; Aug. 16; v. 289; p. 489.
- Mills, Virgil H. and J. H. T., Hubbard, Tex. Oil-burner. No. 1,387,799; Aug. 16; v. 289; p. 489.
- Mills, William. (See Morgan, William, assignor.)
- Mills, William. (See Percy, C., and Mills.)
- Mills, William J., Hazleton, Pa. Linoleum-cutter. No. 1,391,201; Sept. 20; v. 290; p. 485.
- Mills, William S., Trumbull, and H. E. Bisailon, Bridgeport, Conn. Stop-motion device. No. 1,380,003; May 31; v. 286; p. 946.
- Millsaps, Daniel W., Greenville, S. C. Car-door opener. No. 1,395,927; Nov. 1.
- Milmoe, Michael J., assignor to F. B. Redington Company, Chicago, Ill. Carton-filling machine. No. 1,384,844; July 19; v. 288; p. 459.
- Milmoe, Michael J., Glenellyn, assignor to W. C. Ritchie & Company, Chicago, Ill. Box-making machine. No. 1,395,446; Nov. 1.
- Milne, George G., Rye, N. Y., assignor to The Humil Corporation. Car-lighting generator-drive mechanism. No. 1,369,291; Feb. 22; v. 283; p. 613.
- Milne, George G., Rye, N. Y., assignor to The Humil Corporation. Car-lighting generator-drive mechanism. No. 1,369,292; Feb. 22; v. 283; p. 614.
- Milne, Isaac B. (See Hadfield, R. A., Jack, and Milne.)
- Milne, James, and Son. (See McIntyre, John, assignor.)
- Milne, Robert, assignor to The Savage & Love Company, Rockford, Ill. Thread-milling machine. No. 1,400,761; Dec. 20.
- Milne, Samuel, Edinburgh, Scotland. Apparatus for washing pulp for paper-making purposes and the like. No. 1,367,707; Feb. 8; v. 283; p. 221.
- Milne, Walter K., Brooklyn, N. Y. Eye-shade. No. 1,401,118; Dec. 20.
- Milne, Winford G. (See Palmer, R. K., and Milne.)
- Milner, Bert B., New York, N. Y. Method of and apparatus for adjusting locomotive reversing mechanism. No. 1,372,445; Mar. 22; v. 284; p. 680.
- Milner, Leslie C., Indianapolis, Ind. Automobile-heater. No. 1,397,648; Nov. 22.
- Milner, Nugent, assignor to H. H. Babcock Company, Watertown, N. Y. Road-vehicle of the motor-truck type. No. 1,384,269; July 12; v. 288; p. 259.
- Milner, William J., Stockton, Calif. Automatic press for concrete blocks. No. 1,392,435; Oct. 4.
- Milnes, John, Jr., Port Richmond, N. Y. Builder's horse or trestle. No. 1,377,425; May 10; v. 286; p. 257.
- Milnes, John J., Jr., Port Richmond, N. Y. Mold-support. No. 1,383,837; July 5; v. 288; p. 120.
- Milnes, William. (See Tait, W. E., and Milnes.)
- Milnor, Joseph W., assignor to The Western Union Telegraph Company, New York, N. Y. Amplifier. No. 1,378,712; May 17; v. 286; p. 555.
- Miltner, Nelson B., Perth Amboy, N. J. Line-holder. No. 1,390,152; Sept. 6; v. 290; p. 119.
- Milton, Ivan L., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Manufacturing inductance-coils. No. 1,378,969; May 24; v. 286; p. 677.
- Milton, John L., assignor, by mesne assignments, to The Teagle Company, Cleveland, Ohio. Apparatus for the production of alternating currents. No. 1,366,475; Jan. 25; v. 282; p. 598.
- Milutin, Theodore A., Dearborn, Mich. Tractor. No. 1,368,279; Feb. 15; v. 283; p. 378.
- Milutin, Theodore A., Dearborn, Mich. Automatic safety attachment for tractors. No. 1,368,280; Feb. 15; v. 283; p. 378.
- Milutin, Theodore A., Dearborn, Mich. Safety device for tractors. No. 1,377,362; May 10; v. 286; p. 245.
- Milwaukee Auto Engine and Supply Company. (See Smith, Albert E., assignor.)
- Milwaukee Gas Specialty Company. (See Rutz, Arnold O., assessor.)
- Milwaukee Press & Machine Co. (See Zetterlund, Theodor, assignor.)
- Milwaukee Press & Machine Company. (See Ziska, Adam, Jr., assignor.)
- Milwaukee Reliance Boiler Works. (See Bassett, Alvin J., assignor.)
- Minch, Frederick S., Columbus, Ohio. Dipper-funnel. No. 1,368,448; Feb. 15; v. 283; p. 411.
- Minck, Paul H., Petersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacturing a wool substitute from cellulose and similar solutions. No. 1,383,742; July 5; v. 288; p. 101.
- Mine Safety Appliances Company. (See Mase, Roscoe P., assignor.)
- Mine & Smelter Supply Company, The. (See Johnson, O. H., and Webb, assignors.)



## Alphabetical list of patentees—Continued.

- Mine and Smelter Supply Company, The. (See Leddell, William A., assignor.)
- Mine & Smelter Supply Company, The. (See Thompson, Charles E., assignor.)
- Minchart, Irvin U., Coggon, Iowa. Door-catch. No. 1,374,215; Apr. 12; v. 285; p. 203.
- Miner, William H. (See Geiger, William A., assignor.)
- Miner, William H. (See Haseltine, Stacy B., assignor.)
- Miner, William H. (See Johnson, Bradley S., assignor.)
- Miner, William H. (See Johnson, George A., assignor.)
- Miner, William H. (See Lewis, Goodrich Q., assignor.)
- Miner, William H. (See O'Connor, John F., assignor.)
- Miner, William H. (See Townsend, Frederick B., assignor.)
- Miner, William H., Chazy, N. Y. Box-car end. No. 1,391,066; Sept. 20; v. 290; p. 457.
- Miner, William H., Chazy, N. Y., and J. F. O'Connor, Chicago, Ill.; said O'Connor assignor to said Miner. Railway draft-rigging. No. 1,391,067; Sept. 20; v. 290; p. 458.
- Minerals Separation North American Corporation. (See Cole, David, assignor.)
- Minerals Separation North American Corporation. (See Dosenbach, B. H., and Scott, assignors.)
- Minerals Separation North American Corporation. (See Paul, C., and Lavers, assignors.)
- Minerals Separation North American Corporation. (See Hebbard, James, assignor.)
- Minerals Separation North American Corporation. (See Jones, F. B., and Bury, assignors.)
- Minerals Separation North American Corporation. (See Lyster, Fleury J., assignor.)
- Minerals Separation North American Corporation. (See Scott, Walter A., assignor.)
- Minerals Separation North American Corporation. (See Wilkinson, Eltoft W., assignor.)
- Minge, Einar. (See Emmert, W. H., and Minge.)
- Minges, Philip S., Charleston, S. C. Compound tool. No. 1,369,829; Mar. 1; v. 284; p. 14.
- Minick, Judd L., Altoona, Pa. Lamp-focusing device. No. 1,400,227; Dec. 13.
- Mining and Metallurgical Process Proprietary Limited. (See Rigg, Gilbert, assignor.)
- Minion, Carl F., Cincinnati, Ohio. Drafting-tool. No. 1,395,510; Nov. 1.
- Minkler, Chester T., Newport, R. I. Hydrostatic mine. No. 1,368,569; Feb. 15; v. 283; p. 435.
- Minne, John P., Cosmopolis, Wash. Compound for treatment of smut. No. 1,375,529; Apr. 19; v. 285; p. 518.
- Minneapolis Heat Regulator Company. (See Denison, Frederick S., assignor.)
- Minnelli, Vincenzo, Pittston, Pa. Combined tone-arm and amplifier. No. 1,395,053; Oct. 25.
- Minney, Arthur W., Stockton, Calif. Wrench. No. 1,391,337; Sept. 20; v. 290; p. 513.
- Minney, Arthur W., Stockton, Calif. Wrench. No. 1,391,749; Sept. 27; v. 290; p. 669.
- Minney, Arthur W., Stockton, Calif. Wrench. No. 1,392,651; Oct. 4.
- Minney, Arthur W., Stockton, Calif. Wrench. No. 1,392,782; Oct. 4.
- Minnick, Alfred, Newark, N. J., assignor to M-V All Weather Train Controller Company, Wilmington, Del. Demountable rim. No. 1,390,576; Sept. 13; v. 290; p. 296.
- Minnick, Arthur, *et al.* (See Minnick, William H., assignor.)
- Minnick, Frederick L., assignor to Tubular Steel Automobile Wheel Mfg. Co., Spokane, Wash. Wheel. No. 1,401,630; Dec. 27.
- Minnick, William H., assignor of one-fifth to G. F. Seibert, one-fifth to J. Hawkins, one-fifth to A. A. Frisbee, and one-fifth to A. Minnick, San Francisco, Calif. Folding bed. No. 1,366,820; Jan. 25; v. 282; p. 667.
- Minnlear, George D., *et al.* (See Bolton, Philip W., assignor.)
- Minnlear, William N., *et al.* (See Bolton, Philip W., assignor.)
- Minnigan, Philip W., Dayton, Ohio. Adjustable scaffold. No. 1,386,195; Aug. 2; v. 289; p. 47.
- Minnis, George F., Chicago, Ill. Window-washer's harness. No. 1,366,920; Feb. 1; v. 283; p. 8.
- Minnis, George F., Chicago, Ill. Attaching-clip for window-washers' harness. No. 1,373,013; Mar. 29; v. 284; p. 833.
- Minns, Raymond H., Bedford Hills, N. Y. Electric air-heater. No. 1,381,579; June 14; v. 287; p. 290.
- Minor, Charles G., Duluth, Minn. Spark-plug. No. 1,397,535; Nov. 22.
- Minor, Edward L., Birmingham, Ala. Brick-cleaning machine. No. 1,397,227; Nov. 15.
- Minor, Frank W., Richmond, Va. Reproducer. No. 1,375,407; Apr. 19; v. 285; p. 495.
- Minor, Frank W., Richmond, Va. Resonator-dome for reproducers. No. 1,375,408; Apr. 19; v. 285; p. 495.
- Minorsky, Nicolai, New York, N. Y. Angular-velocity-indicating apparatus. No. 1,372,184; Mar. 22; v. 284; p. 629.
- Minshall, George S., Bowling Green, Ky. Well-drilling apparatus. No. 1,396,649; Nov. 8.
- Minton, C. J., & C. H. Holmes, Gage, Okla. Hasp and latch. No. 1,399,640; Dec. 6.
- Minton, Gustave M., assignor to Leo Schlesinger & Co., New York, N. Y. Holder for memoranda-strips or game-scores. No. 1,388,365; Aug. 23; v. 289; p. 658.
- Minton, John P., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Receiver-shield. No. 1,396,771; Nov. 15.
- Minton, William E., Kansas City, Mo. Well-drill bit. No. 1,372,894; Mar. 29; v. 284; p. 809.
- Mintz, Abraham, New York, N. Y. Ironing-board. No. 1,380,234; May 31; v. 286; p. 989.
- Mintz, Harry, Boston, Mass. Folding frame. No. 1,385,021; July 19; v. 288; p. 496.
- Mintz, Harry, Boston, Mass. Portable support. No. 1,390,807; Sept. 13; v. 290; p. 342.
- Mintz, Harry, Mattapan, Mass. Hammock. No. 1,387,801; Aug. 16; v. 289; p. 490.
- Mintz, Harry, Mattapan, Mass. Headrest for hammocks. No. 1,391,964; Sept. 27; v. 290; p. 713.
- Mintz, Nathaniel, and C. C. Hiers, St. Paul, Minn. Safety device for clothes-wringers. No. 1,381,423; June 14; v. 287; p. 261.
- Minue, William E., Fredericton, New Brunswick, Canada. Film-movement mechanism of picture-machines. No. 1,383,006; June 28; v. 287; p. 674.
- Miot, Hubert F. H. G., Vanves, assignor to P. B. Bernard and A. L. Moutier, Paris, France. Mechanism for reversing the direction of motion of machinery. No. 1,397,172; Nov. 15.
- Mioton, Sidney F., New Orleans, La. Fluid-measuring machine. No. 1,382,439; June 21; v. 287; p. 513.
- Miquet, Louis, Neuilly-sur-seine, France. Adjustable ball-bearing. No. 1,401,349; Dec. 27.
- Miracle Artificial Arm Co., The. (See Henning, Frederick C., assignor.)
- Mirgon, Frank J., San Francisco, Calif. Razor-hone holder. No. 1,396,587; Nov. 8.
- Mirmillo, Charles, by S. E. Hayes, guardian, Oakland, Calif. Breech-block mechanism. No. 1,382,796; June 28; v. 287; p. 635.
- Mironchuk, Nestor, New York, N. Y. Meat-roaster. No. 1,386,643; Aug. 9; v. 289; p. 205.
- Mirrieles, James F., assignor, by mesne assignments, to The Avey Drilling Machine Company, Cincinnati, Ohio. Feed mechanism for drilling-machines. No. 1,388,875; Aug. 30; v. 289; p. 812.
- Mirrieles, James F., assignor, by mesne assignments, to The Avey Drilling Machine Company, Cincinnati, Ohio. Belt-drive mechanism for drilling-machines and the like. No. 1,388,876; Aug. 30; v. 289; p. 812.
- Mirrieles, James F., assignor, by mesne assignments, to The Avey Drilling Machine Company, Cincinnati, Ohio. Lubricating device for drill-presses and the like. No. 1,398,338; Nov. 29.
- Miscampbell, Hugh, Duluth, Minn. Mixing-machine. No. 1,398,238; Nov. 29.
- Mischke, Reinhardt C., New York, N. Y. Unhairing-machine. No. 1,393,809; Oct. 18.
- Misco, Steve, Gary, W. Va. Detachable shoe-sole. No. 1,367,919; Feb. 8; v. 283; p. 261.
- Misegadis, William F., Lorton, Nebr. Cistern. No. 1,389,151; Aug. 30; v. 289; p. 867.
- Misrocchi, Guido, Philadelphia, Pa. Concrete railway-tie. No. 1,383,327; July 5; v. 288; p. 14.
- Mish, George F., Inwood, W. Va. Sled. No. 1,392,783; Oct. 4.
- Miskimen, Judson H., Glendive, Mont. Wrench. No. 1,369,459; Feb. 22; v. 283; p. 646.
- Missogenis, Georges, Edgewater, N. J., assignor, by mesne assignments, to P. Guines, Palisade, N. J. Foldable cot. No. 1,392,195; Sept. 27; v. 290; p. 759.
- Mitchel, Charles F., assignor to Bastian Bros. Co., Rochester, N. Y. Button or badge. No. 1,396,137; Nov. 8.
- Mitchell, Charles H. (See Davis, G. H., and Mitchell.)
- Mitchell, Alex, Motor Plow Company, The. (See Mitchell, Alexander, assignor.)
- Mitchell, Alexander, Pueblo, Colo., assignor to The Alex Mitchell Motor Plow Company. Adjusting mechanism for motor-plows. No. 1,368,643; Feb. 15; v. 283; p. 449.
- Mitchell, Alexander, Pueblo, Colo., assignor to The Alex Mitchell Motor Plow Company. Plow-lifting mechanism. No. 1,392,196; Sept. 27; v. 290; p. 760.
- Mitchell, Anthony G. M., Melbourne, Victoria, Australia. Method and apparatus for determining viscosity. No. 1,398,878; Nov. 29.
- Mitchell, Benjamin A., and F. G. Janney, Garfield, Utah. Sectional-lining construction for mills. No. 1,370,690; Mar. 8; v. 284; p. 225.
- Mitchell, Benjamin A., and F. G. Janney, Garfield, Utah. Ore-grinding mill. No. 1,370,700; Mar. 8; v. 284; p. 225.
- Mitchell, Bert D., Battle Creek, Mich. Auxiliary tread for motor-vehicle wheels. No. 1,366,921; Feb. 1; v. 283; p. 8.
- Mitchell-Bissell Co. (See Cass, Freeman, assignor.)
- Mitchell Camera Co. (See Leonard, John E., assignor.)
- Mitchell, Eugene G., Red Level, Ala. Car-wheel. No. 1,379,121; May 24; v. 286; p. 706.
- Mitchell, Eva R., Worcester, Mass. Safety crochet-needle. No. 1,376,151; Apr. 26; v. 285; p. 669.
- Mitchell, Floyd A., Portland, Oreg. Truck attachment for tractors. No. 1,397,053; Nov. 15.



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- Mitchell, Frank, Houston, Tex. Convertible automobile body. No. 1,401,177; Dec. 27.
- Mitchell, Frederick G., Ridgefield Park, N. J. Flying target for trap-shooting. No. 1,369,830; Mar. 1; v. 285; p. 15.
- Mitchell, George, London, England. Apparatus for making emulsions. No. 1,393,632; Oct. 11.
- Mitchell, George L. (See Glaudel, George, assignor.)
- Mitchell, Grover I., Madison, Wis. Fastening device. No. 1,382,112; June 21; v. 287; p. 450.
- Mitchell, J. E., & D. Parks, St. Louis, Mo. Heel-blank building. No. 1,399,508; Dec. 6.
- Mitchell, J. Ernest. (See Ellerman, Edward, assignor.)
- Mitchell, James H., Danville, Ill. Method of and apparatus for making facing-bricks. No. 1,387,861; Aug. 16; v. 289; p. 501.
- Mitchell, John A. (See Snyder, Perry, assignor.)
- Mitchell, John B., London, England. Appliance for preparing iced beverages or for cooling liquids. No. 1,386,520; Aug. 2; v. 289; p. 109.
- Mitchell, John C., East Orange, N. J. Inner form for concrete-pipe molds. No. 1,394,570; Oct. 25.
- Mitchell, John C., East Orange, N. J. Form for concrete-pipe molds. No. 1,397,649; Nov. 22.
- Mitchell, John E., St. Louis, Mo. Boll-breaking and cotton-separating machine. No. 1,368,823; Feb. 15; v. 283; p. 484.
- Mitchell, John E., St. Louis, Mo. Cotton separating and cleaning machine. No. 1,381,213; June 14; v. 287; p. 223.
- Mitchell, John E., St. Louis, Mo. Cotton extracting and cleaning machine. No. 1,383,007; June 28; v. 287; p. 674.
- Mitchell, John E., St. Louis, Mo. Cotton cleaning and separating machine. No. 1,395,054; Oct. 25.
- Mitchell, John E., Pulaski, Va. Concrete grave-vault. No. 1,371,323; Mar. 15; v. 284; p. 407.
- Mitchell, John K., Rosemont, Pa. Reclaiming waste leather. No. 1,394,329; Oct. 18.
- Mitchell, John R., Hill Top, W. Va., assignor of one-half to W. B. Johnson, Cismont, Va. Car-step. No. 1,395,589; Nov. 1.
- Mitchell, John B., Hilltop, W. Va., assignor of one-half to W. B. Johnson, Cismont, Va. Wrench. No. 1,401,484; Dec. 27.
- Mitchell, Joseph K., Los Angeles, Calif. Double-current syringe. No. 1,384,771; July 19; v. 288; p. 444.
- Mitchell, Leon, Dorchester, Mass. Apparatus for the process of making crullers. No. 1,382,926; June 28; v. 287; p. 659.
- Mitchell, Louis J., Dinuba, Calif. Leveler and dirt-scraper. No. 1,400,968; Dec. 20.
- Mitchell, Lucien C., Chicago, Ill. Parachute and folding the same. No. 1,398,303; Nov. 29.
- Mitchell Manufacturing Company. (See Mitchell, William, assignor.)
- Mitchell, Moorehouse, Quebec, Quebec, Canada. Wire stretching and twisting device. No. 1,372,531; Mar. 22; v. 284; p. 696.
- Mitchell, Ralph W. (See Patterson, C. J., and Mitchell, assignors.)
- Mitchell, Reuben C., Harrisburg, Ill. Low-level oil-signal for automobiles. No. 1,364,295; Jan. 4; v. 282; p. 49.
- Mitchell, Robert G., Mount Vernon, N. Y. Glass-holder. No. 1,397,323; Nov. 15.
- Mitchell, Rowland B., assignor to Athol Manufacturing Company, Athol, Mass. Pyroxylin solvent. No. 1,397,173; Nov. 15.
- Mitchell, Rowland B., assignor to Athol Manufacturing Company, Athol, Mass. Pyroxylin solvent. No. 1,397,493; Nov. 15.
- Mitchell, Rowland B., assignor to Athol Manufacturing Company, Athol, Mass. Solvent for pyroxylin bodies. No. 1,398,239; Nov. 29.
- Mitchell, Samuel. (See Syes, C. L., and Mitchell.)
- Mitchell, Sidney, New York, N. Y. Continuous pulp-beater. No. 1,380,920; June 7; v. 287; p. 114.
- Mitchell and Smith. (See Champney, Ralph P., assignor.)
- Mitchell, Stephen B., *et al.* (See Dunn, Felix E., assignor.)
- Mitchell, Vernon V., Whitney Point, N. Y. Skate-sharpener. No. 1,388,659; Aug. 23; v. 289; p. 715.
- Mitchell, William, Milwaukee, Wis. Stanchion-control mechanism. No. 1,401,428; Dec. 27.
- Mitchell, William, assignor to Mitchell Manufacturing Co., Milwaukee, Wis. Stock-watering bowl. No. 1,365,934; Jan. 18; v. 282; p. 449.
- Mitchell, William, assignor to Mitchell Manufacturing Company, Milwaukee, Wis. Ventilator. No. 1,382,736; June 28; v. 287; p. 623.
- Mitchell, William B., Montgomery, Ala. Advertising-sign figure. No. 1,401,807; Dec. 27.
- Mitera, Joseph, Plainfield, N. J. Mechanical toy. No. 1,389,372; Aug. 30; v. 289; p. 912.
- Mitiska, Carl J., Howell, Ind. Stove. No. 1,384,772; July 19; v. 288; p. 445.
- Mitiska, Carl J., Howell, Ind. Stove. No. 1,390,151; Sept. 6; v. 290; p. 119.
- Mitrosky, John, and J. Bogdan; said Mitrosky assignor to said Bogdan, Perth Amboy, N. J. Cushion-wheel. No. 1,369,181; Feb. 22; v. 283; p. 592.
- Mitrovich, Adolph, San Antonio, Tex. Glass. No. 1,393,235; Oct. 11.
- Mitsui Mining Co. (See Kasai, Kaichi, assignor.)
- Mittag & Volger. (See Stark, Harry S., assignor.)
- Mittasch, Alwin. (See Bosch, C., Mittasch, and Beck.)
- Mittasch, Alwin. (See Bosch, C., Schmidt, and Mittasch.)
- Mittelstaedt, George W., Morton Grove, assignor to Fly Escape Screen Company, Chicago, Ill. Fly-escape screen. No. 1,378,601; May 17; v. 286; p. 534.
- Mittinger, George E., Youngstown, Ohio. Ice-can. No. 1,365,527; Jan. 11; v. 282; p. 329.
- Mittinger, George E., Youngstown, Ohio. Three-piece metallic shipping-barrel. No. 1,376,216; Apr. 26; v. 285; p. 681.
- Mittman, Ernest H., Muscatine, Iowa. Feed holder and trough. No. 1,400,307; Dec. 13.
- Mitel, Harvey F., Providence, R. I., assignor to Revere Rubber Company, Dipping apparatus for producing rubber articles. No. 1,365,528; Jan. 11; v. 282; p. 330.
- Mix, Wellington S., Chicago, Ill., assignor to Dennison Manufacturing Company, Framingham, Mass. Tag. No. 1,387,657; Aug. 16; v. 289; p. 460.
- Mixsell, Leighton N. D. (See Carey, R. R., Lukens, and Mixsell.)
- Miyagi, Takeo, Waipahu, Honolulu, Hawaii. Bolt and nut. No. 1,367,072; Feb. 1; v. 283; p. 38.
- Miyagi, Takeo, Waipahu, Hawaii. Railway-brake. No. 1,397,443; Nov. 15.
- Miyakawa, Kintaro, San Francisco, Calif. Shoe-fastener. No. 1,378,602; May 17; v. 286; p. 534.
- Miyasaki, Kan, Los Angeles, Calif. Wrapping device. No. 1,375,797; Apr. 26; v. 285; p. 601.
- Miyasaki, Yuske, McKees Rocks, Pa. Locking mechanism. No. 1,365,843; Jan. 18; v. 282; p. 431.
- Mize, Allen J., J. R., and J. W. Ivers, Oklahoma, Okla. Automobile-tilting frame. No. 1,399,641; Dec. 6.
- Mize, James R. (See Mize, Allen J. and J. R., and Ivers.)
- Mizruely, David, Pittsburgh, Pa. Vehicle reverse-lock. No. 1,399,509; Dec. 6.
- Mizzell, George, assignor of one-half to A. T. Merritt, Newport News, Va. Reaming-tool. No. 1,392,960; Oct. 11.
- Mjolsnes, Kunt O., Nashwauk, Minn. Centrifugal pump. No. 1,365,006; Jan. 11; v. 282; p. 230.
- Mladinich, Frank. (See De Tartas, A. R., and Mladinich.)
- Mladinich, Frank, New York, N. Y. Motion-picture camera. No. 1,377,265; May 10; v. 286; p. 225.
- Mladinich, Frank, New York, N. Y., assignor of fifteen one-hundredths to E. Pontin, Elizabeth, N. J., and forty-two and one-half one-hundredths to A. R. de Tartas, Rockwell Center, Long Island, N. Y. Camera box or cabinet for combined moving-picture cameras and projectors. No. 1,397,817; Nov. 22.
- Mladinich, Frank, and A. R. de Tartas, Rockville Center, N. Y., assignors of fifteen one-hundredths to E. Pontin, Elizabeth, N. J. Combined moving-picture camera and projector. No. 1,369,694; Feb. 22; v. 283; p. 693.
- Moa Iron & Development Corporation. (See Haywood, C. R., Schleicher, and Stillman, assignors.)
- Moad, George W., Soldier, Iowa. Tool. No. 1,383,226; June 28; v. 287; p. 716.
- Moats, De Witt T., Indianapolis, Ind. Finger-ring-casting pattern. No. 1,389,315; Aug. 30; v. 89; p. 900.
- Mobbs, Horatio M. (See Boomer, George R., assignor.)
- Mobley, George W., Waynesboro, Ga. Boll-weevil eradicator. No. 1,398,599; Nov. 29.
- Mobley, Henry G., Valley Mills, Tex. Automatic air and gas relief valve for oil-distributing systems. No. 1,379,309; May 24; v. 286; p. 741.
- Mobley, Lewis K., New York, N. Y. Applying liquid antiseptics. No. 1,378,481; May 17; v. 286; p. 510.
- Mobley, Ora, Cincinnati, Ohio. Tire-tool. No. 1,392,591; Oct. 4.
- Moccasin Bushing Company. (See Sharp, John C., assignor.)
- Mocha, Andrzej, East Douglas, Mass. Collapsible chair. No. 1,401,272; Dec. 27.
- Mochizuki, Jack K., Seattle, Wash. Signaling device. No. 1,368,644; Feb. 15; v. 283; p. 449.
- Mock, Edward A. (See Rick, J., and Motowski, assignors.)
- Mock, Frank C., assignor to Stromberg Motor Devices Company, Chicago, Ill. Carburetor. No. 1,395,233; Oct. 25.
- Mock, James C., Detroit, Mich. Double-slip railway-switch. No. 1,377,216; May 10; v. 286; p. 215.
- Mock, Nate, London, England. Stamp-inking pad. No. 1,385,022; July 19; v. 288; p. 496.
- Mockridge, Joseph B., assignor to Automatic Weighing Machine Company, Newark, N. J. Feeding apparatus for weighing-machines and the like. No. 1,397,932; Nov. 22.
- Mockridge, Whitney, London, England. Book and like support. No. 1,377,907; May 10; v. 286; p. 249.
- Modern Mechanical Engineering Company. (See Gould, E. J., and Pressler, assignors.)
- Modern Package Co. (See Bicker, Edgar B., assignor.)
- Modern Rolling Window Screen Co. (See Mugno, Joseph, Jr., assignor.)
- Modernola Company. (See Friedline, William H., assignor.)
- Modlin, Lowell G., Marion, Ind. Electrical toy aeroplane. No. 1,364,203; Jan. 4; v. 282; p. 30.



## Alphabetical list of patentees—Continued.

- Modnicki, George, Toledo, Ohio. Fruit and vegetable cutter. No. 1,386,349; Aug. 2; v. 289; p. 77.
- Moe, Leonidas L., Denver, Colo. Automobile-hotel. No. 1,395,969; Nov. 1.
- Moe, Peter, Seattle, Wash. Cooking utensil. No. 1,380,802; May 31; v. 286; p. 1002.
- Moell, John C., Wapakoneta, Ohio. Tie. No. 1,380,235; May 31; v. 286; p. 989.
- Moeller, Joseph F., Chicago, Ill. Leaf stemming and booking machine. No. 1,400,228; Dec. 13.
- Moeller, Willy, Hamburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making tanning materials. No. 1,399,510; Dec. 6.
- Moenkhaus, Henry H., Evansville, Ind. Cooling-receiver for coffee-roasters. No. 1,389,964; Sept. 6; v. 290; p. 82.
- Moeschl-Edwards Corrugating Company. (See Edwards, Christopher B., assignor.)
- Moesmer, Frank O., Brooklyn, assignor of one-half to C. Christman, Queens, N. Y. Hose-mounting protector. No. 1,396,452; Nov. 8.
- Moessing, Otto. (See Sande, H. B., and Moessing.)
- Moette, Flavien. (See Comeau, Telosphore, assignor.)
- Moffatt, David D., Hayden, Ariz. Ore concentration. No. 1,400,308; Dec. 13.
- Moffatt, Howard, Los Angeles, Calif. Solution-forming device. No. 1,365,183; Jan. 11; v. 282; p. 263.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Stitch-forming mechanism for sewing-machines. No. 1,366,476; Jan. 25; v. 282; p. 599.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Stitch-forming mechanism for sewing-machines. No. 1,374,216; Apr. 12; v. 285; p. 203.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Looper-supporting mechanism for sewing-machines. No. 1,375,531; Apr. 19; v. 285; p. 518.
- Moffatt, James R., and R. S. Kelso, assignors to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,370,985; Mar. 8; v. 284; p. 279.
- Moffett, Gray H., Birmingham, Ala. Stovepipe-holder. No. 1,369,831; Mar. 1; v. 284; p. 15.
- Moffett, Harry, Lincoln, Ill. Wire-fence machine. No. 1,376,217; Apr. 26; v. 285; p. 681.
- Moffit, Jeremiah, assignor to American Optical Company, Southbridge, Mass. Lens-drill. No. 1,370,035; Mar. 1; v. 284; p. 53.
- Moffitt, Edward P., Minneapolis, Minn. Phonograph. No. 1,386,892; Aug. 9; v. 289; p. 257.
- Moffitt, Edward P., Minneapolis, Minn. Demonstrating device. No. 1,396,453; Nov. 8.
- Moffitt, Morris R., Peck, Kans. Crate. No. 1,387,554; Aug. 16; v. 289; p. 440.
- Mohawk Carpet Mills. (See Hathaway, Edgar F., assignor.)
- Mohawk Carpet Mills. (See Lea, Charles, assignor.)
- Mohler, Charles M., Richmond, Ind. Shock-absorber. No. 1,388,742; Aug. 23; v. 289; p. 731.
- Mohn, Albert. (See Mohn, Thomas and A.)
- Mohn, Arnold, Chicago, Ill. Waterproofing. No. 1,397,738; Nov. 22.
- Mohn, Thomas and A., Red Wing, Minn. Piston-ring. No. 1,401,178; Dec. 27.
- Mohney, Charles C., Clintonville, Pa. Power attachment for automobile hand-pumps. No. 1,376,718; May 3; v. 286; p. 64.
- Mohr, Arthur D., El Paso, Tex. Coin-wrapping device. No. 1,397,444; Nov. 15.
- Mohr, Henry, Covington, Ky. Universal connection. No. 1,381,214; June 14; v. 287; p. 223.
- Mohr, Mabel E., et al. (See Gallagher, George D., assignor.) (Reissue.)
- Moine, Selest E., Lubbock, Tex. Vignetting attachment for multiple-exposure cameras. No. 1,373,626; Apr. 5; v. 285; p. 48.
- Moir, Harry S., Chico, Calif. Savings-bank interest-indicator. No. 1,383,227; June 28; v. 287; p. 716.
- Moir, William, Chicago, Ill. Mechanical movement. No. 1,387,428; Aug. 9; v. 289; p. 363.
- Moisant, Alfred J., New York, N. Y. Apparatus for ozonizing substances. No. 1,368,346; Feb. 15; v. 283; p. 391.
- Mojoonnier Bros. Co. (See Mojoonnier, Julius J., assignor.)
- Mojoonnier, Julius J., Oak Park, Ill., assignor to Mojoonnier Bros. Co., Portland, Me. Laboratory apparatus. No. 1,372,243; Mar. 22; v. 284; p. 641.
- Mojoonnier, Julius J., Oak Park, assignor to Mojoonnier Bros. Co., Chicago, Ill. Testing milk and milk products. No. 1,391,965; Sept. 27; v. 290; p. 713.
- Molas, Clodion. (See Peir, A. H., Peterson, and Molas.)
- Moldenhauer, Otto A., Watertown, Wis. Milking-machine. No. 1,366,205; Jan. 18; v. 282; p. 501.
- Moldenke, Richard, Watchung, N. J. Manufacture of alum cake. No. 1,388,436; Aug. 23; v. 289; p. 672.
- Molenaar, William, Paterson, N. J. Milk-bottle holder. No. 1,367,557; Feb. 8; v. 283; p. 192.
- Molenda, Henry. (See Wiernikowski, Ignacy, assignor.)
- Molenda, Henry, Ollie, Mont. Combination device. No. 1,390,307; Sept. 13; v. 290; p. 242.
- Moler, Vandivere B. (See Georgi, Constantin, assignor.)
- Molesworth, Henry B., Bexley, England. Steering-head for motor-driven road-vehicles. No. 1,370,900; Mar. 8; v. 284; p. 262.
- Molesworth, Henry B., Westminster, London, assignor to The London and Westminster Industrial Syndicate Limited, London, England. Means for the transmission of motive power to machinery. No. 1,370,899; Mar. 8; v. 284; p. 262.
- Moline, Charles G., Wyandotte, Mich. Wrench. No. 1,375,530; Apr. 19; v. 285; p. 518.
- Moline Heat. (See Shurtleff, Wilfred, assignor.)
- Moline Plow Company. (See Irving, John L., assignor.)
- Moline Plow Company. (See Brennan, Thomas, Jr., assignor.)
- Moline Plow Company. (See Funk, T. B., and Carver, assignors.)
- Moline Plow Company. (See Lake, St. Clair, assignor.)
- Moline Plow Company. (See O'Connor, Peter J., assignor.)
- Molins, Walter E., London, England. Device for taking sheets from a stack of paper or the like. No. 1,382,213; June 21; v. 287; p. 468.
- Molis, Stanislovas, Racine, Wis. Bed-spring. No. 1,367,275; Feb. 1; v. 283; p. 78.
- Molis, Stanislovas, Racine, Wis. Foldable bed-spring. No. 1,370,036; Mar. 1; v. 284; p. 53.
- Molitor, R. H., et al. (See Dvorak, Rudolph, assignor.)
- Mollan, Malcolm, Brooklyn, N. Y. Automatic stop for graphophones. No. 1,378,603; May 17; v. 286; p. 534.
- Molberg, Bror, Gottenborg, Sweden. Chair with ventilating device for theaters, biographs, and the like. No. 1,370,832; Mar. 8; v. 284; p. 250.
- Molle, William, Oshkosh, Wis. Tabulator-stop for typewriters. No. 1,400,492; Dec. 13.
- Mollen, James F., Cleveland, and W. W. Patnoe, Tiffin, assignors to The Dolomite Products Company, Cleveland, Ohio. Manufacture of refractory materials. No. 1,365,336; Jan. 11; v. 282; p. 292.
- Moller, Edward M. (See Benedict, H. A., and Moller.)
- Moller, Edward M., Jersey City, N. J. Electric-circuit breaker. No. 1,391,966; Sept. 27; v. 290; p. 713.
- Möller, Morten W., and A. E. Harms, assignors to Mekanism Industri Company Ltd., Copenhagen, K, Denmark. Machine for grinding shaving-machine blades. No. 1,393,634; Oct. 11.
- Moller Motor Company. (See Moller, Wilhelm, assignor.)
- Moller, Wilhelm, assignor to Moller Motor Company, Lewistown, Pa. Adjustable steering-post for automobiles. No. 1,368,959; Feb. 15; v. 283; p. 510.
- Mollet, Nicholas, Massillon, Ohio. Sign. No. 1,387,933; Aug. 16; v. 289; p. 515.
- Molloy, Edward, assignor to C. F. Stacey, Clapham Common, London, England. Submersible toy. No. 1,396,650; Nov. 8.
- Molloy, Francis M., Baltimore, Md. Tire-spreader. No. 1,364,947; Jan. 11; v. 282; p. 218.
- Molloy, James F., & Co., The. (See Meserole, Milton D., assignor.)
- Molloy, William, Chicago, Ill. Whisper-phone. No. 1,376,719; May 3; v. 286; p. 64.
- Molnar, Julius, New York, N. Y. Holder for toilet articles. No. 1,399,305; Dec. 6.
- Moloch Company. (See Davidson, C. J., and Kenney, assignors.)
- Moloney, Thomas O., et al. (See Carter, Lionel A., assignor.)
- Molony, Stuart B., Wellesley Hills, Mass. Utilizing vulcanized waste rubber. No. 1,384,773; July 19; v. 288; p. 445.
- Molthan, John H., Merville, Iowa. Lantern-bail. No. 1,372,185; Mar. 22; v. 284; p. 629.
- Moltrup, James T., Beaver Falls, Pa. Straightening-machine. No. 1,382,309; June 21; v. 287; p. 487.
- Moltrup, James T., Beaver Falls, Pa. Method of and apparatus for pickling rods, pipes, and the like. No. 1,393,633; Oct. 11.
- Molyneux, George E., Bayonne, N. J. Stopping mechanism for sewing-machines. No. 1,373,755; Apr. 5; v. 285; p. 72.
- Molyneux, George E., Bayonne, N. J., assignor to The Singer Manufacturing Company. Joining fabric sections. No. 1,384,845; July 19; v. 288; p. 460.
- Molyneux, George E., Bayonne, N. J. Controlling device for stitching mechanism, &c. No. 1,392,696; Oct. 4.
- Momeyer, Aimee H. and G. M., Brooklyn, N. Y. Wheel-rim. No. 1,394,330; Oct. 18.
- Momeyer, George M. (See Momeyer, Aimee H. and G. M.)
- Momitsa, Nichola Y., Crestline, Ohio. Machine for removing cores from pneumatic-tire casings. No. 1,386,644; Aug. 9; v. 289; p. 205.
- Monaghan, Frank W., Mosinee, Wis., assignor to The Bagley and Sewall Company, Watertown, N. Y. Method and apparatus for controlling water on a Four-dribber wire. No. 1,366,821; Jan. 25; v. 282; p. 668.
- Monaghan, Thomas H., Chicago, Ill. Dishwasher. No. 1,399,978; Dec. 13.
- Monahan, John C., Philadelphia, Pa. Wheel-check device. No. 1,401,350; Dec. 27.
- Monahan Rotary Engine Corporation. (See Sullivan, Patrick J. M., assignor.)
- Monarch Fleshing Machine Company. (See Schroedter, J. O., and Kelling, assignors.)



*Alphabetical list of patentees—Continued.*

- Monarch Refillable Fuse Co. (See Ellison, Edward H., assignor.)
- Monarch Tag Company, The. (See Kohnle, Frederick, assignor.)
- Monberg, Soren C., Leadville, Colo. Air compressor or pump. No. 1,372,532; Mar. 22; v. 284; p. 696.
- Monce, Edwin W. (See Smith, P. W., Bookhout, and Monce.)
- Monckmeier, Gustav C., Tipton, Iowa. Device for inserting pistons in cylinders. No. 1,367,622; Feb. 8; v. 283; p. 204.
- Monckton, Sawyer Y., San Francisco, Calif. Excavating-machine. No. 1,375,798; Apr. 26; v. 285; p. 601.
- Moncrieff, Veon L., Indianapolis, Ind. Internal-combustion engine. No. 1,374,313; Apr. 12; v. 285; p. 221.
- Mond, Albert, London, England. Glass chemical ware. No. 1,399,934; Dec. 6.
- Mondriuk, Michael, Akron, Ohio. Multiple plow. No. 1,395,447; Nov. 1.
- Mondy, Helen R., Atlantic City, N. J. Electrical brush. No. 1,393,635; Oct. 11.
- Monfils, Napoleon A., Haverhill, Mass. Heel. No. 1,401,808; Dec. 27.
- Mongan, John, East St. Louis, Ill. Means for preventing automobile-thefts. No. 1,368,519; Feb. 15; v. 283; p. 520.
- Mongan, John P., Minneapolis, Minn. Locomotive-boiler. No. 1,385,386; July 26; v. 288; p. 646.
- Mouin, Henri A., St. Denis, France. Abdominal belt. No. 1,391,563; Sept. 20; v. 290; p. 558.
- Monitor Controller Company of Baltimore. (See Whittingham, George H., assignor.)
- Monitor Stove Company, The. (See Wollenhaupt, Justus J., assignor.)
- Monk, Thomas H., Tallahassee, Fla. Cotton-stalk puller. No. 1,393,955; Oct. 18.
- Monion, Basil, assignor of one-half to H. D. Coles, Palms, Calif. Shell magazine and feeder. No. 1,384,145; July 12; v. 288; p. 233.
- Monnett, James I., and H. S. Blynt, Yale, Okla. Cushion shoe-heel. No. 1,380,825; June 7; v. 287; p. 96.
- Monrath, Gustav, New York, N. Y., assignor, by mesne assignments, to The Barber Asphalt Paving Company, Philadelphia, Pa. Lining launders. No. 1,368,960; Feb. 15; v. 283; p. 570.
- Monroe, Randolph, assignor to W. Kops, New York, N. Y. Gas-mask. No. 1,395,759; Nov. 1.
- Monroe, Randolph, assignor to W. Kops, New York, N. Y. Gas-mask. No. 1,395,760; Nov. 1.
- Monroe, Randolph, and E. Klauber, assignors to W. Kops, New York, N. Y. Gas-mask. No. 1,395,761; Nov. 1.
- Monroe, William L., assignor to Window Glass Machine Company, Pittsburgh, Pa. Drawing glass. No. 1,396,339; Nov. 8.
- Monroe, Andrew J. (See Monroe, Nathaniel S. and A. J.)
- Monroe Calculating Machine Company. (See Britten, Edwin F., Jr., assignor.)
- Monroe Calculating Machine Company. (See Phinney, Edgar E., assignor.)
- Monroe Calculating Machine Company. (See White, Nelson, assignor.)
- Monroe, Frank, assignor to Monroe, Lederer & Taussig, Philadelphia, Pa. Mixing-machine. No. 1,365,529; Jan. 11; v. 282; p. 330.
- Monroe, George A. C., Geneva, Ill. Collapsible bed. No. 1,394,331; Oct. 18.
- Monroe, Lederer & Taussig. (See Monroe, Frank, assignor.)
- Monroe, Nathaniel S. and A. J., Arthur, Ill. Road-working machine. No. 1,397,011; Nov. 15.
- Monsanto Chemical Works. (See Bebie, Jules, assignor.)
- Monsanto Chemical Works. (See Rispler, Alfred L., assignor.)
- Monson, George S., St. Paul, Minn., assignor to M. F. Patterson Dental Supply Company, Chicago, Ill. Heating utensil. No. 1,388,116; Aug. 16; v. 289; p. 550.
- Monson, Hiemer W. (See Stalley, C. E., Blazer, and Monson.)
- Montag, Charles, *et al.* (See Park, George I., assignor.)
- Montague, Harold E., Philadelphia, Pa. Flying-machine. No. 1,378,368; May 17; v. 286; p. 488.
- Montaruli, Giuseppe V., Rome, Italy. Tubular ship's hull. No. 1,385,790; July 26; v. 288; p. 729.
- Monte, Giovanni, Turin, Italy. Electric-heated thermosiphon-radiator. No. 1,378,552; May 17; v. 286; p. 524.
- Monteith, John C., Cleveland, and L. A. Frayer, Columbus, Ohio. Means for making springs. No. 1,387,934; Aug. 16; v. 289; p. 515.
- Montel, Alva, Claypool, Ind. Vehicle-body hanger. No. 1,383,415; July 5; v. 288; p. 33.
- Montgomery, Christopher J., Liverpool, England. Machine for making barrel-heads. No. 1,377,968; May 10; v. 286; p. 61.
- Montgomery, Donn H., Denver, Colo. Spring for motor-vehicles. No. 1,384,146; July 12; v. 288; p. 233.
- Montgomery, Dudley. (See Butzen, Thomas F., assignor.)
- Montgomery, Frank L., Buffalo, N. Y. Compound rail. No. 1,364,204; Jan. 4; v. 282; p. 30.
- Montgomery, George M., Windsor Locks, and G. L. Mason, Warehouse Point, assignors to The J. R. Montgomery Co., Windsor Locks, Conn. Serving-spindle. No. 1,386,350; Aug. 2; v. 289; p. 77.
- Montgomery, Gustavus, assignor of one-half to The Guiberson Corporation, Dallas, Tex. Underreamer. No. 1,368,961; Feb. 15; v. 283; p. 570.
- Montgomery, Gustavus A., assignor of one-half to The Guiberson Corporation, Dallas, Tex. Dressing-block. No. 1,396,340; Nov. 8.
- Montgomery, Henry M., Cedar Vale, Kans. Fur-stretcher. No. 1,398,907; Nov. 29.
- Montgomery, J. R., Co., The. (See Montgomery, G. M., and Mason, assignors.)
- Montgomery, Keith, Jacksonville, Ill. Garment-hanger. No. 1,386,015; Aug. 2; v. 289; p. 10.
- Montgomery Mfg. Company. (See Ohaver, William D., assignor.)
- Montgomery, Nicholas E., Blackfoot, Idaho. Grip-chain for automobiles. No. 1,387,429; Aug. 9; v. 289; p. 363.
- Montgomery, Robert C., Brooklyn, assignor to Knox Hat Company, Incorporated, New York, N. Y. Straw hat. No. 1,391,750; Sept. 27; v. 290; p. 669.
- Montgomery, Robert J., Chicago, Ill., assignor to Sanitax Brush Company. Brush and making same. No. 1,370,343; Mar. 1; v. 284; p. 111.
- Montgomery, Robert L., and E. K. McManus, Washington, Pa. Toy gun. No. 1,368,645; Feb. 15; v. 283; p. 450.
- Montgomery, Roscoe C., Brooklyn, assignor of one-half to J. K. Lettenberger, Jr., Woodhaven, N. Y. Tire-holder. No. 1,374,089; Apr. 5; v. 285; p. 138.
- Montgomery Ward & Co. (See Moses, Nicholas P., assignor.)
- Monti, Eudo, Turin, Italy. Concentrating grape-juice. No. 1,379,470; May 24; v. 286; p. 771.
- Monti, Eudo, Turin, Italy. Making jams, jellies, and marmalades of fruit. No. 1,398,339; Nov. 29.
- Monti, Eudo, Turin, Italy. Manufacture of grape extract. No. 1,401,351; Dec. 27.
- Montilijo, Isidore, assignor of one-half to W. E. Thompson, Hollister, Calif. Engine-tester. No. 1,396,454; Nov. 8.
- Montine, Joseph F., Chicago, Ill. Current-collector. No. 1,370,143; Mar. 1; v. 284; p. 73.
- Montine, Joseph F., Chicago, Ill. Trolley-wire support. No. 1,370,144; Mar. 1; v. 284; p. 73.
- Monto, Joseph, Cleveland Heights, and A. R. Curtis; said Curtis assignor to J. Hays, Cleveland, Ohio. Metal-coating machine. No. 1,383,555; July 5; v. 288; p. 61.
- Montpetit, Joseph R., and J. S. Adamson, Ottawa, Ontario, Canada. Composition of matter designed for use on shoes and boots and on leather articles generally. No. 1,390,537; Sept. 13; v. 290; p. 288.
- Montrose, Frank, Cleveland, Ohio. Check-printing machine. No. 1,384,708; July 12; v. 288; p. 351.
- Montsinger, Vincent M., Pittsfield, Mass., assignor to General Electric Company. Temperature-indicator for transformers and the like. No. 1,371,923; Mar. 15; v. 284; p. 523.
- Montulet, Auguste N., Lakewood, N. J. Talking-machine cabinet. No. 1,368,347; Feb. 15; v. 283; p. 392.
- Mood, George M., Charleston, S. C. Hand-oller. No. 1,379,471; May 24; v. 286; p. 771.
- Moody, Axel W., Elgin, Ill. Piston-operating mechanism for engines, pumps, and compressors. No. 1,364,508; Jan. 4; v. 282; p. 90.
- Moody, Joseph E., Chicago, Ill. Means for forming concrete-pipe sections. No. 1,376,349; Apr. 26; v. 285; p. 707.
- Moody, Philip E., *et al.* (See Hachmann, Frederick, assignor.)
- Mooers, B. M., San Francisco, and L. E. Warner, Berkeley, assignors to Motor Protector Manufacturing Company, San Francisco, Calif. Electric control system. No. 1,381,580; June 14; v. 287; p. 290.
- Mooers, Benjamin M., San Francisco, and L. E. Warner, Berkeley, assignors to Motor Protector Mfg. Co., San Francisco, Calif. Electric-circuit-protecting apparatus. No. 1,381,581; June 14; v. 287; p. 291.
- Mooers, Marion, San Francisco, Calif. Window-ventilator. No. 1,382,927; June 28; v. 287; p. 659.
- Moon, Alfred E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Carrier-cushion for sandpapering-machines. No. 1,370,663; Mar. 8; v. 284; p. 218.
- Moon, Alfred E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber-covered roller. No. 1,370,664; Mar. 8; v. 284; p. 218.
- Moon Brothers Manufacturing Company. (See Drew, John W., assignor.)
- Moon, Carl C., Westboro, Ohio. Motor. No. 1,378,264; May 17; v. 286; p. 469.
- Moon, Frank, Oakland, assignor to Moon Tractor Co., San Francisco, Calif. Traction-engine. No. 1,370,756; Mar. 8; v. 284; p. 236.
- Moon, Frank, Oakland, assignor to Moon Tractor Co., San Francisco, Calif. Tractor track-chain. No. 1,370,757; Mar. 8; v. 284; p. 236.
- Moon, Frank, Oakland, assignor to Moon Tractor Co., San Francisco, Calif. Tractor-carriage. No. 1,374,384; Apr. 12; v. 285; p. 235.
- Moon, Freeman S., assignor to International Precipitation Company, Los Angeles, Calif. Recovering water-soluble material from furnace-gases. No. 1,377,363; May 10; v. 286; p. 245.



*Alphabetical list of patentees—Continued.*

- Moon-Hopkins Billing Machine Company. (See Hopkins, Hubert, assignor.)  
 Moon-Hopkins Billing Machine Company. (See Hopkins, William W., assignor.)  
 Moon, Merle B. (See Sylvester, William W., assignor.)  
 Moon, Robert B., Philadelphia, Pa. Draft-door-opening device. No. 1,382,797; June 28; v. 287; p. 635.  
 Moon Tractor Co. (See Moon, Frank, assignor.)  
 Moone, Albert E. F., Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company. Apparatus for handling rolls of roofing, barrels, boxes, and similar articles. No. 1,401,429; Dec. 27.  
 Mooney, Ernest, York, England. Lubricating device for railway-vehicle axle. No. 1,389,965; Sept. 6; v. 290; p. 82.  
 Mooney, Frank H., Hinsdale, assignor to C. E. Barrett, Chicago, Ill. End-face grinder. No. 1,393,956; Oct. 18.  
 Mooney, Frank M., assignor to Formatan Syndicate, Montreal, Quebec, Canada. Conversion of chromate and bichromate of sodium or potassium to chromic sulfate. No. 1,379,578; May 24; v. 286; p. 791.  
 Mooney, James J., and R. E. Bennett, Wichita Falls, Tex. Portable locomotive-valve-seating machine. No. 1,385,344; July 19; v. 288; p. 561.  
 Mooney, Melvin, Chicago, Ill. Colorimeter and the like. No. 1,389,836; Sept. 6; v. 290; p. 56.  
 Mooney, Thomas J., Brooklyn, N. Y. Lip-guard for drinking vessels. No. 1,369,293; Feb. 22; v. 283; p. 614.  
 Mooney, William A., assignor of one-third to W. P. Mayo, Richmond, Va. Packaging-machine. No. 1,401,273; Dec. 27.  
 Mooney, William H., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Controlling device for electrical systems. No. 1,401,352; Dec. 27.  
 Moor, William C., Havilah, Ontario, Canada. Aero angle-meter or level-register. No. 1,380,999; June 7; v. 287; p. 130.  
 Moore, Alfred M., Malden, assignor to Moore & Company, Everett, Mass. Wire-stitching machine. No. 1,380,733; June 7; v. 287; p. 78.  
 Moore, Alpha E., Thorntown, Ind. Wiggler. No. 1,398,881; Nov. 29.  
 Moore, Benjamin S., Joliet, Ill. Automobile gear-shift. No. 1,369,259; Feb. 22; v. 283; p. 608.  
 Moore, Callie F., *et al.* (See Gallagher, George D., assignor.) (Reissue.)  
 Moore, Charles A., Elizabeth, and D. K. Thornton, Roselle Park, N. J. Auto-shoe-expanding tool. No. 1,389,837; Sept. 6; v. 290; p. 56.  
 Moore, Charles N. (See Zinzel, George, assignor.)  
 Moore, Charles R., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Device for converting sound or other vibrations into variations in an electrical circuit. No. 1,375,465; Apr. 19; v. 285; p. 506.  
 Moore, Charles W. (See Ryder, P. H., and Moore.)  
 Moore, Chester J., East St. Louis, Ill., assignor by mesne assignments, to Victory Motors Company. Internal-combustion engine. No. 1,367,825; Feb. 8; v. 283; p. 244.  
 Moore & Company. (See Moore, Alfred M., assignor.)  
 Moore, Edgar B., Los Angeles, Calif. Stereoscopic-motion-picture mechanism. No. 1,396,651; Nov. 8.  
 Moore, Edward, Newark, N. J. Governing device for internal-combustion engines. No. 1,388,743; Aug. 23; v. 289; p. 731.  
 Moore, Edward, assignor of one-half to E. V. Galvin, Pana, Ill. Tire-chain. No. 1,386,522; Aug. 2; v. 289; p. 109.  
 Moore, Edward L., Eureka, Calif. Educational device. No. 1,396,349; Nov. 8.  
 Moore, Edward S., Brooklyn, N. Y. Toy theater. No. 1,396,046; Nov. 8.  
 Moore, Edward T., Syracuse, N. Y., assignor to Westinghouse Electric and Manufacturing Company. System of pressure regulation. No. 1,376,455; May 3; v. 286; p. 15.  
 Moore, Edward Y., Cleveland, Ohio. Trolley-hoisting mechanism. No. 1,384,709; July 12; v. 288; p. 351.  
 Moore Electric Corporation. (See Beach, Chester H., assignor.)  
 Moore, Ernest V., Montreal, Quebec, Canada. System of handling peat. No. 1,373,627; Apr. 5; v. 285; p. 48.  
 Moore, Ernst D., Chester, assignor to The Pratt Read Player Action Company, Deep River, Conn. Player-piano. No. 1,369,530; Feb. 22; v. 283; p. 660.  
 Moore, Floyd S. (See Cline, Robert W., assignor.)  
 Moore, Frank, Los Angeles, Calif. Testing device for transmission-line insulators. No. 1,385,639; July 26; v. 288; p. 699.  
 Moore, Frederick A. (See Dupré, Wilfred, assignor.)  
 Moore, George A., Medford, Mass. Sound-box. No. 1,375,409; Apr. 19; v. 285; p. 495.  
 Moore, George A., Medford, Mass. Sound-box. No. 1,389,683; Sept. 6; v. 290; p. 24.  
 Moore, George A., Medford, Mass. Capstan-screw. No. 1,396,455; Nov. 8.  
 Moore, George D. (See Beaumont, J. F., and Moore.)  
 Moore, George D. (See McKay, E. A., and Moore.) (Reissue.)  
 Moore, George E., Paterson, N. J. Artificial limb. No. 1,368,348; Feb. 15; v. 283; p. 392.  
 Moore, George E., Paterson, N. J. Artificial limb. (Reissue.) No. 15,192; Sept. 13; v. 290; p. 377.  
 Moore, Giles S. (See Moore, Otto, assignor.)  
 Moore, Gilson C., Los Angeles, Calif. Fruit-gatherer. No. 1,364,399; Jan. 4; v. 282; p. 68.  
 Moore, Granville. (See Van Meter, James W., assignor.)  
 Moore, Granville, San Francisco, Calif. Treating ores. No. 1,364,573; Jan. 4; v. 282; p. 101.  
 Moore, Granville, San Francisco, Calif. Manufacture of blanc fixe. No. 1,388,285; Aug. 23; v. 289; p. 641.  
 Moore, Harlan, New York, N. Y. Moisture-cup. No. 1,370,665; Mar. 8; v. 284; p. 218.  
 Moore, Harrison E., assignor to Simplex Ice Machine Company, Fort Worth, Tex. Refrigerating apparatus. No. 1,382,214; June 21; v. 287; p. 469.  
 Moore, Henry B., Liverpool, England. Amusement apparatus. No. 1,367,417; Feb. 1; v. 283; p. 106.  
 Moore, Herman E., Tallahassee, Fla. Pulling implement. No. 1,380,156; May 31; v. 286; p. 975.  
 Moore, Hugh, Leonia, N. J., assignor to Individual Drinking Cup Company, Inc. Paper-cup holder. No. 1,389,594; Sept. 6; v. 290; p. 7.  
 Moore, Hugh K., assignor to Berlin Mills Company, Berlin, N. H. Machine for testing lubricating-oil. No. 1,395,448; Nov. 1.  
 Moore, James C., Smyrna, N. Y. Electrician's joist-boring tool. No. 1,391,844; Sept. 27; v. 290; p. 688.  
 Moore, James E. A. (See Peck, F. A., and Moore.)  
 Moore, James R., Pittsburgh, Pa. Valve-stem lubricator. No. 1,373,346; Mar. 29; v. 284; p. 899.  
 Moore, James R., Tarrytown, assignor of one-half to C. L. Cassidy, New York, N. Y. Headlight. No. 1,398,973; Dec. 6.  
 Moore, James W., Norfolk, Va. Detachable sole. No. 1,377,908; May 10; v. 286; p. 350.  
 Moore, James W., assignor to Atlanta Utility Works, East Point, Ga. Cotton-seed huller. No. 1,369,978; Mar. 1; v. 284; p. 42.  
 Moore, John A. (See Keyser, W. P., and Moore.)  
 Moore, John A., assignor to The Mengel Company, Louisville, Ky. Machine for notching box-blanks and the like. No. 1,379,275; May 24; v. 286; p. 734.  
 Moore, John A., assignor to The Mengel Company, Louisville, Ky. Machine for sealing boxes or cartons. No. 1,379,276; May 24; v. 286; p. 735.  
 Moore, John A., assignor to The Mengel Company, Louisville, Ky. Machine for punching and cutting tape. No. 1,380,492; June 7; v. 287; p. 32.  
 Moore, John J., South Charleston, Ohio. Signpost. No. 1,391,001; Sept. 20; v. 290; p. 444.  
 Moore, John R., Plains, Kans. Draft appliance. No. 1,394,858; Oct. 25.  
 Moore, Joseph. (See Dumas, William H., assignor.)  
 Moore, Joseph. (See Menser, Albert N., assignor.)  
 Moore, Julius C., Raleigh, N. C. Fluid-measuring device. No. 1,379,122; May 24; v. 286; p. 706.  
 Moore, Karl B., Seymour Camp, Victoria, and H. R. Edmunds, Youanme, Western Australia, Australia. Process of and apparatus for precipitating and recovering precious metals from their solutions. No. 1,368,520; Feb. 15; v. 283; p. 425.  
 Moore, Lawrence F., Oakland, Calif. Crematory-urn. No. 1,373,014; Mar. 29; v. 284; p. 833.  
 Moore, Lee R., Dallas, Tex. Blow-out shoe. No. 1,364,447; Jan. 4; v. 282; p. 78.  
 Moore, Leon W., Santa Maria, Calif. Drawing-board. No. 1,395,200; Oct. 25.  
 Moore, Lewis B. (See Faubion, James C., assignor.)  
 Moore, Louis, Minneapolis, Minn. Anchoring and winding device for decoys. No. 1,370,145; Mar. 1; v. 284; p. 73.  
 Moore, Mary E., *et al.* (See Dungan, Robert M., assignor.)  
 Moore, Matthew S., assignor to Mayor & Coulson, Limited, Glasgow, Scotland. Cutter-chain lining-machine. No. 1,368,521; Feb. 15; v. 283; p. 426.  
 Moore, Ninian R., Dubois, Pa. Automobile camp-trailer. No. 1,386,943; Aug. 9; v. 289; p. 267.  
 Moore, Onon G., Nashville, Tenn. Automobile-skid. No. 1,388,053; Aug. 16; v. 289; p. 538.  
 Moore, Otis W., Allerton, Ill. Air-heater for automobile-engines. No. 1,371,509; Mar. 15; v. 284; p. 444.  
 Moore, Otis W., Allerton, Ill. Device for holding and displaying maps, diagrams, &c. No. 1,371,510; Mar. 15; v. 284; p. 444.  
 Moore, Otto, Frankfort, Ind. Trolley-wheel. No. 1,382,664; June 28; v. 287; p. 610.  
 Moore, Otto, assignor of one-half to G. S. Moore, Frankfort, Ind. Sliding trolley. No. 1,387,897; Aug. 16; v. 289; p. 508.  
 Moore, Otto, assignor, by mesne assignments, of one-half to Automatic Sliding Trolley Company, Frankfort, Ind. Sliding trolley. (Reissue.) No. 15,252; Dec. 20.  
 Moore, Paul F., Carneys Point, N. J. Internal-combustion motor. No. 1,389,453; Aug. 30; v. 289; p. 927.  
 Moore, Ralph H., Berkeley, Calif. Method and apparatus for washing and treating silica. No. 1,366,582; Jan. 25; v. 282; p. 620.  
 Moore, Raymond G., Utica, N. Y., assignor to The Baskick Company, Bridgeport, Conn. Staff-lathe. No. 1,379,645; May 31; v. 286; p. 879.



*Alphabetical list of patentees—Continued.*

- Moore, Richard, Ossining, N. Y. Pen or pencil clip. No. 1,397,818; Nov. 22.
- Moore, Robert A., New York, N. Y. Automatic firearm. No. 1,376,456; May 3; v. 286; p. 15.
- Moore, Robert A., New York, N. Y. Cooling means for internal-combustion engines. No. 1,338,965; Aug. 30; v. 289; p. 830.
- Moore, Robert W., St. Louis, Mo. Spark-plug. No. 1,389,152; Aug. 30; v. 289; p. 867.
- Moore, Roy W., Schenectady, N. Y., assignor to General Electric Company. Spark-plug and making same. No. 1,371,924; Mar. 15; v. 284; p. 523.
- Moore, Silas, Palto Alto, Calif. Hen - marker. No. 1,372,533; Mar. 22; v. 284; p. 696.
- Moore, Stuart B., Houston, Tex. Roadway. No. 1,383,228; June 28; v. 287; p. 716.
- Moore, Stuart B., Houston, Tex. Preserving wood. No. 1,388,877; Aug. 30; v. 289; p. 812.
- Moore, Stuart B., assignor to Texas Concrete Construction Company, Houston, Tex. Floor system. No. 1,376,152; Apr. 26; v. 285; p. 669.
- Moore, T. Fred. (See Griffin, Sydney B., assignor.)
- Moore, T. Fred. (See Wadsworth, Charles W., assignor.)
- Moore, Thomas E., assignor to The Ransom & Randolph Company, Toledo, Ohio. Casting-flask for dentists. No. 1,369,182; Feb. 22; v. 283; p. 593.
- Moore, Thomas F., Dover, N. J. Trenching apparatus. No. 1,378,970; May 24; v. 286; p. 677.
- Moore, Thomas J., Washington, D. C. Door-spring. No. 1,399,642; Dec. 6.
- Moore, Thos. L., *et al.* (See Flood, John R., assignor.)
- Moore, Van Zandt, M., Cleveland Heights, Ohio. Vehicle-wheel. No. 1,375,717; Apr. 26; v. 285; p. 586.
- Moore, Van Zandt, M., Cleveland, Ohio. Vehicle-wheel. No. 1,375,718; Apr. 26; v. 285; p. 587.
- Moore, Vernon B., Asheville, N. C. Machine construction. No. 1,374,599; Apr. 12; v. 285; p. 278.
- Moore, Wade W., Pittsburg, assignor to J. E. Roach, Oakland, Calif. Lead-pencil. No. 1,369,347; Feb. 22; v. 283; p. 625.
- Moore, Wade W., Pittsburg, assignor to J. E. Roach, Oakland, Calif. Lead-pencil. No. 1,382,928; June 28; v. 287; p. 659.
- Moore, Walter M., Portsmouth, Va. Safety attachment for air-brake systems. No. 1,398,908; Nov. 29.
- Moore, Warren K., New Castle, Pa. Apparatus for dressing engine-cylinders. No. 1,384,625; July 12; v. 288; p. 333.
- Moore, William, St. Paul, Minn. Insecticide. No. 1,376,153; Apr. 26; v. 285; p. 669.
- Moore, William D., Birmingham, Ala. Pipe-joint. No. 1,365,530; Jan. 11; v. 282; p. 330.
- Moore, William E., Pittsburgh, Pa. Electric regulator. No. 1,378,971; May 24; v. 286; p. 677.
- Moore, William E., Milwaukee, Wis. Electric furnace. No. 1,378,972; May 24; v. 286; p. 677.
- Moore, William E., Chicago, Ill., assignor, by mesne assignments, to International Earth Boring Machine Corporation. Earth-boring machine. No. 1,375,640; Apr. 19; v. 285; p. 539.
- Moore, William E., Chicago, Ill., assignor, by mesne assignments, to International Earth-Boring Machine Corporation. Earth-boring machine. No. 1,397,324; Nov. 15.
- Moore, William E., Beaver Falls, assignor to The Pittsburgh Engineering Works, Pittsburgh, Pa. Electrically-heated strip and wire tempering and annealing device. No. 1,386,645; Aug. 9; v. 289; p. 205.
- Moore, William E., assignor to A. Henderson, Chicago, Ill. Cone-baking machine. No. 1,389,774; Sept. 6; v. 290; p. 43.
- Moore, William E., assignor to W. J. Hartwig, Detroit, Mich. Disk - stacking device. No. 1,391,202; Sept. 20; v. 290; p. 485.
- Moore, William H., Pasadena, Calif. Tire-cover. No. 1,389,838; Sept. 6; v. 290; p. 56.
- Moore, William S., Leicester, England. Calendering-machine. No. 1,372,766; Mar. 29; v. 284; p. 783.
- Moorhead, Otis B., San Francisco, Calif. Securing metallic members together. No. 1,379,036; May 24; v. 286; p. 689.
- Moorhouse, Alfred, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,400,566; Dec. 20.
- Moork, Alfred C. (See Moork, Hartwig A., assignor.)
- Moork, Alfred C., Chicago, Ill. Gas - burner. No. 1,380,004; May 31; v. 286; p. 946.
- Moork, Hartwig A., assignor of one-half to A. C. Moork, Chicago, Ill. Kettle. No. 1,397,536; Nov. 22.
- Mooser - Schiess, Werner, Bern - Liebfeld, Switzerland. Plastic mass. No. 1,367,886; Feb. 8; v. 283; p. 255.
- Moquist, Peter, Minneapolis, Minn. Flue-block for stoves and the like. No. 1,399,511; Dec. 6.
- Mora, John F. (See Stranahan, James F., assignor.)
- Moran, Daniel E., Mendham, N. J. Subaqueous structure and method. No. 1,394,571; Oct. 25.
- Moran, Edward J., *et al.* (See Sewell, Arthur L., assignor.)
- Moran, Frank C. (See Dougherty, John L., assignor.)
- Moran, John A., Brooklyn, N. Y. Gun-disappearing apparatus. No. 1,399,395; Dec. 6.
- Moran, Müller & Morris. (See Müller, Victor, assignor.)
- Moran, Patrick J. (See Clark, Wilbur T., assignor.)
- Moran, Robert C., Ridley Park, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing dinitrodiphenylamin. No. 1,401,631; Dec. 27.
- Moran, Stanley C., Houston, Tex. Indexing device. No. 1,365,935; Jan. 18; v. 282; p. 449.
- Moran, William E., Detroit, Mich. Apparatus for thawing frozen ground. No. 1,390,457; Sept. 13; v. 290; p. 271.
- Moran, William F., Chicago, Ill., assignor to V. B. M. Company. Driving mechanism for washing-machines. No. 1,393,957; Oct. 18.
- Morand Cushion Wheel Co. (See Morand, Joseph J., assignor.)
- Morand, Joseph J., assignor to Morand Cushion Wheel Co., Chicago, Ill. Method of and apparatus for manufacturing cushion units. No. 1,369,695; Feb. 22; v. 283; p. 693.
- Morandi, Giuseppe, Florence, Italy. Wooden article and making the same. No. 1,385,387; July 26; v. 288; p. 646.
- Morange, Edward A. (See Hanlon, George W., assignor.)
- Moranic, Joseph, *et al.* (See Swinti, Alix., assignor.)
- Morano, Samuel, Wendell, W. Va. Railway-tie and rail-locking device. No. 1,381,488; June 14 v. 287; p. 272.
- Morant, Noel W., New Orleans, La. Support for protective coverings. No. 1,376,218; Apr. 26; v. 285; p. 682.
- Moratta, Mathew M., Princeton, Ind. Piston-ring. No. 1,391,845; Sept. 27; v. 290; p. 688.
- Mordano, Leonard, New York, N. Y. Differential gearing for automobiles, &c. No. 1,370,701; Mar. 8; v. 284; p. 225.
- Morden Frog & Crossing Works. (See Gibbs, Benedict T., Jr., assignor.)
- Morden, S. H., & Company Limited. (See Whyte, Samuel, assignor.)
- Mordey, William M., Westminster, England. Heat treatment of tramway and other rails. No. 1,383,963; July 5; v. 288; p. 146.
- Mordey, William M., Westminster, assignor to himself and G. A. Hughes, Croyden, England. Electrical searchlight and other projectors. No. 1,382,215; June 21; v. 287; p. 469.
- Mordon Frog & Crossing Works. (See Gibbs, Benedict T., Jr., assignor.)
- More, George, Brooklyn, N. Y. Portage device. No. 1,380,073; May 31; v. 286; p. 959.
- Mores, Edward A., New York, N. Y. Fish-lure. No. 1,390,458; Sept. 13; v. 290; p. 271.
- Morehouse, George W., Callao, Utah. Resilient wheel. No. 1,389,153; Aug. 30; v. 289; p. 867.
- Morehouse, Charles N. (See Elder, W. J., and Morehouse.)
- Morehouse, Eugene, assignor to B. A. Ballow & Company, Inc., Providence, R. I. Pin. No. 1,393,901; Oct. 18.
- Morehouse, Frank E., and C. O. Manning, Memphis, Tenn. Automatic motion - picture advertising - sign. No. 1,367,558; Feb. 8; v. 283; p. 192.
- Morell, Elgin, New York, N. Y. Sheet-counter. No. 1,384,710; July 12; v. 288; p. 351.
- Morelli, Caro B. (See Morelli, Juan B. and C. B.)
- Morelli, Juan B. and C. B., Barcelona, Spain. Armored pneumatic tire. No. 1,400,450; Dec. 13.
- Moren, Swan E., Biwabik, Minn. Briquet-machine. No. 1,384,206; July 12; v. 288; p. 245.
- Moreschini, Ronald, Pueblo, Colo. Beet - harvester. No. 1,366,477; Jan. 25; v. 282; p. 599.
- Morey, Amos F., Oklahoma, Okla. Pneumatic tire. No. 1,382,216; June 21; v. 287; p. 469.
- Morgan, Benjamin. (See King, J. E., and Morgan.)
- Morgan Construction Company. (See Carroll, Elbert H., assignor.)
- Morgan Construction Company. (See Edwards, Victor E., assignor.)
- Morgan Construction Company. (See Lummis, Charles W., assignor.)
- Morgan Crucible Company Limited. (See Speirs, Charles W., assignor.)
- Morgan, David F., Atlanta, Ga. Toy. No. 1,385,883; July 26; v. 288; p. 748.
- Morgan Engineering Company, The. (See Taylor, Clarence L., assignor.)
- Morgan Engineering Company. (See Wackerly, Harry A., assignor.)
- Morgan, Enoch W., Philadelphia, Pa. Apparatus for treating articles with liquid. No. 1,365,788; Jan. 18; v. 282; p. 420.
- Morgan, Enoch W., Philadelphia, Pa. Dyeing-machine. No. 1,365,936; Jan. 18; v. 282; p. 450.
- Morgan, George F., New York, N. Y. Axle. No. 1,398,240; Nov. 29.
- Morgan, George F., New York, N. Y. Axle. No. 1,399,069; Dec. 6.
- Morgan, George S., Toledo, Ohio, assignor to Edgar G. Behr, Detroit, Mich. Rust - preventing mixture for metals. No. 1,364,134; Jan. 4; v. 282; p. 17.
- Morgan, Harry, Flint, Mich. Cup and cone bearing. No. 1,369,979; Mar. 1; v. 284; p. 43.
- Morgan, Henry W., and J. O. Whitener, Greenville, S. C. Picker-stick. No. 1,391,266; Sept. 20; v. 290; p. 498.
- Morgan, Howard W., North Tarrytown, N. Y., assignor to The Dorr Company. Sewage treatment. No. 1,392,197; Sept. 27; v. 290; p. 760.



*Alphabetical list of patentees—Continued.*

- Morgan, James C., and C. S. Schroeder, New Brighton, N. Y., assignors, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Freight-handling truck. No. 1,379,472; May 24; v. 286; p. 771.
- Morgan, John, assignor to D. Murray, Melbourne, Victoria, Australia. Concrete or like building-block or slab. No. 1,377,718; May 10; v. 286; p. 311.
- Morgan, John H., Detroit, Mich. Method of and means for forming articles of plastic material. No. 1,376,564; May 3; v. 286; p. 35.
- Morgan, John H., Harrowgate, England. Saw for cutting wood, metal, or other substances. No. 1,381,930; June 21; v. 287; p. 417.
- Morgan, John H., Holyoke, assignor of one-third to B. Webster, Springfield, and one-third to C. W. Huntley, Holyoke, Mass. Apparatus for discharging static charges. No. 1,394,211; Oct. 18.
- Morgan, John S., assignor to Thermal Industrial and Chemical (T. I. C.) Research Company, Limited, London, England. Recovering gases which have been absorbed by solids. No. 1,398,882; Nov. 29.
- Morgan, John W. (See Pimple, E. J., and Morgan.)
- Morgan, Mathew B. (See White, R. H., and Morgan.)
- Morgan, Mathew B., Cleveland Heights, assignor to the Cleveland Tractor Company, Euclid, Ohio. Air-cleaner. No. 1,367,623; Feb. 8; v. 283; p. 204.
- Morgan, Mathew B., Cleveland Heights, assignor to Cleveland Tractor Company, Cleveland, Ohio. Pilot attachment for tractors. No. 1,369,696; Feb. 22; v. 283; p. 693.
- Morgan, Mathew B., Cleveland Heights, assignor to the Cleveland Tractor Company, Euclid, Ohio. Spring suspension for track-laying tractors. No. 1,380,577; June 7; v. 287; p. 48.
- Morgan, Mathew B., Cleveland Heights, assignor to the Cleveland Tractor Company, Euclid, Ohio. Belt-guide for tractors. No. 1,394,106; Oct. 18.
- Morgan, Mathew B., Cleveland Heights, and Edwin H. Savage, Cleveland, assignors to the Cleveland Tractor Company, Euclid, Ohio. Track-frame for track-laying tractors. No. 1,365,937; Jan. 18; v. 282; p. 450.
- Morgan, Millard F., Bailey, N. C. Horse-hitch. No. 1,378,482; May 17; v. 286; p. 510.
- Morgan, Mitchell. (See Gerberg, M., Hirsch, and Morgan.)
- Morgan, Orlando K., Erwin, Tenn., assignor of one-half to H. H. Hart, Evanston, Ill. Rail-chair. No. 1,369,183; Feb. 22; v. 283; p. 593.
- Morgan, Porter S., Norwalk, Conn., assignor to Rotary Brake Company, Inc., New York, N. Y. Power-brake. No. 1,397,012; Nov. 15.
- Morgan, Ralph L., assignor to Worcester Machine Works, Worcester, Mass. Chuck. No. 1,364,783; Jan. 4; v. 282; p. 142.
- Morgan, S. Smith Co. (See Felthousen, John H., assignor.)
- Morgan, Saxton J., Albany, Wis. Hacksaw-frame. No. 1,395,511; Nov. 1.
- Morgan, Walter L., St. Louis, Mo. Wrench. No. 1,400,451; Dec. 13.
- Morgan, William, assignor of one-half to W. Mills, Birmingham, England. Vaporizer for internal-combustion engines. No. 1,368,186; Feb. 8; v. 283; p. 312.
- Morgan & Wright. (See Abbott, Adrian O., Jr., assignor.)
- Morgan and Wright. (See Davis, Merrill, assignor.)
- Morgan & Wright. (See Ezer, Ernst, assignor.)
- Morgan & Wright. (See Holmes, R., and Abbott, assignors.)
- Morgan & Wright. (See McMahan, William W., assignor.)
- Morgans & Wilcox Mfg. Company. (See Hampson, Donald A., assignor.)
- Morgenthaler, Herbert J. W., Brooklyn, N. Y. Identification device. No. 1,371,925; Mar. 15; v. 284; p. 523.
- Mori, Katsukichi, Tokyo, Japan. Water-meter. No. 1,384,329; July 12; v. 288; p. 271.
- Mori, Teiji, New York, N. Y. Tire. No. 1,377,782; May 10; v. 286; p. 325.
- Moriarty, Daniel F., Holyoke, assignor of one-half to F. A. Champlin, East Long Meadow, Mass. Light-deflecting means for headlights. No. 1,399,143; Dec. 6.
- Moriarty, Joseph R., Hudson, Mich. Adjustable partition for stock-cars. No. 1,388,819; Aug. 23; v. 289; p. 746.
- Moriarty, William. (See McCarthy, Michael, assignor.)
- Morier, Henri, Killingly, Conn. Fastening device for packages. No. 1,374,023; Apr. 5; v. 285; p. 125.
- Morin, Edgar G., San Francisco, Calif. Door hanger and adjuster. No. 1,370,037; Mar. 1; v. 284; p. 53.
- Morin, Edward J., Wynot, Nebr. Pocket pencil-holder. No. 1,401,809; Dec. 27.
- Morin, Frank Z., Sanford, Me. Fishing-signal. No. 1,391,002; Sept. 20; v. 290; p. 444.
- Morin, George G., Holyoke, Mass. Rear-end automobile-signal. No. 1,389,373; Aug. 30; v. 289; p. 912.
- Morin, Henry V., Poughkeepsie, N. Y. Tool-holder. No. 1,395,859; Nov. 1.
- Morin, Hormidas, and F. Pothier, Sherbrooke, Quebec, Canada. Sanitary drinking-fountain. No. 1,396,380; No. 8.
- Morin, John B., Oak Park, Ill. Fuel-charged volatilizer. No. 1,371,705; Mar. 15; v. 284; p. 482.
- Morison, Donald B., Hartlepool, England. Apparatus for condensing steam. No. 1,378,553; May 17; v. 286; p. 524.
- Moritz, Daniel A., and W. J. Peterson, McKeesport, Pa. Vending-machine. No. 1,396,772; Nov. 15.
- Morize, Ernest, Boulogne-sur-Seine, France. Propelling device for use on vehicles, marine vessels, or aircraft. No. 1,375,601; Apr. 19; v. 285; p. 531.
- Mork, Harry S., Brookline, Mass., assignor, by mesne assignments, to American La France Fire Engine Company, Inc., Elmira, N. Y. Fire-extinguisher composition. No. 1,393,236; Oct. 11.
- Mork, Harry S., Brookline, Mass., assignor, by mesne assignments, to American La France Fire Engine Company, Inc., Elmira, N. Y. Fire-extinguisher composition. No. 1,393,237; Oct. 11.
- Mork, Jack, Chicago, Ill. Automobile-fender. No. 1,372,895; Mar. 29; v. 284; p. 809.
- Morkrum Company. (See Krum, Charles L. and H. L., assignors.)
- Morledge, Bert F., Columbus, Ind. Milk-bottle stopper. No. 1,372,715; Mar. 29; v. 284; p. 773.
- Morley, George W. (See Kemp, Edward, assignor.)
- Morlok, William, assignor to L. A. Prouty Company, Incorporated, Philadelphia, Pa. Faucet. No. 1,386,646; Aug. 9; v. 289; p. 206.
- Morphis, Richard N., Santa Monica, Calif. Oil-gas generator and burner. No. 1,365,938; Jan. 18; v. 282; p. 450.
- Morrall, Samuel E., and W. W. Morrall, Ohio. Corn-husking machine. No. 1,372,767; Mar. 29; v. 284; p. 783.
- Morrall, Samuel E., and W. W. Morrall, Ohio. Corn-husking device. No. 1,388,286; Aug. 23; v. 289; p. 642.
- Morrall, William W. (See Morrall, Samuel E. and W. W.)
- Morrall, William W., Morrall, Ohio. Machine for butting ears of corn. No. 1,376,720; May 3; v. 286; p. 64.
- Morrell, Albert H. (See Wishart, W., and Morrell.)
- Morrill, Alfred R., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Inseam-sewing machine. No. 1,390,808; Sept. 13; v. 290; p. 343.
- Morrill, Alfred R., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,397,013; Nov. 15.
- Morrill, Austin W., Los Angeles, Calif. Fumigating-cover. No. 1,372,974; Mar. 29; v. 284; p. 825.
- Morrill, Charles H., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of bellows-tongue overshoes. No. 1,369,260; Feb. 22; v. 283; p. 608.
- Morrill, Ernest L. (See Spenard, Napoleon, assignor.) (Reissue.)
- Morrill, Gertrude M., San Francisco, Calif. Display-fixture. No. 1,387,161; Aug. 9; v. 289; p. 309.
- Morris, Arthur H., Newark, N. J. Adjustable tool and head. No. 1,391,564; Sept. 20; v. 290; p. 559.
- Morris, Butler B. (See Gauntt, W. S., and Morris.)
- Morris, Charles, Vancouver, British Columbia, Canada. Nut-blanching machine. No. 1,377,090; May 3; v. 286; p. 135.
- Morris, Charles A., Augusta, Colo. Irrigating device. No. 1,381,731; June 14; v. 287; p. 320.
- Morris, Charles W., Youngstown, Ohio. Turn-up tool. No. 1,379,277; May 24; v. 286; p. 735.
- Morris, Edward B., Vallejo, Calif. Combination gear control and auto-lock. No. 1,389,966; Sept. 6; v. 290; p. 82.
- Morris, Edward T. (See Mills, T. J., and Morris.)
- Morris, Fields J., Durango, Colo. Bag-holder. No. 1,378,050; May 17; v. 286; p. 429.
- Morris, Frank E., Philadelphia, Pa. Cooking apparatus. No. 1,401,945; Dec. 27.
- Morris, George E., Hackensack, N. J. Automatic filter. No. 1,401,810; Dec. 27.
- Morris, Harold A., Liscard, England, assignor of one-half to William P. Thompson, Liverpool, England. Machine for counting out and paying sums of money. No. 1,365,262; Jan. 11; v. 282; p. 275.
- Morris, Herbert M., San Francisco, Calif. Binder for sheets, leaves, and the like. No. 1,398,387; Nov. 29.
- Morris, Howard I., assignor to The Savage Tire Company, San Diego, Calif. Article of manufacture. No. 1,367,751; Feb. 8; v. 283; p. 229.
- Morris, Howard I., assignor to The Savage Tire Company, San Diego, Calif. Loom. No. 1,369,531; Feb. 22; v. 283; p. 660.
- Morris, Hurd T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,386,016; Aug. 2; v. 289; p. 11.
- Morris, James W., and J. L. Ruddick, Oakland, Calif. Mop-head. No. 1,384,147; July 12; v. 288; p. 234.
- Morris, John, New York, N. Y. Safety lock mechanism. No. 1,366,015; Jan. 18; v. 282; p. 465.
- Morris, John F., Peoria, Ill. Device for treatment by temperature. No. 1,393,153; Oct. 11.
- Morris, John M. (See Fogwell, H. H., and Morris.)
- Morris, John O., Washington, D. C. Tobacco-leaf stemming, straightening, and booking machine. No. 1,381,489; June 14; v. 287; p. 272.
- Morris, Joseph F., Derby, Conn. Box for cash-carriers. No. 1,381,582; June 14; v. 287; p. 291.



- Morris, Joshua M., Rochester, N. Y. Electrical lighting device for cigars and the like. No. 1,376,154; Apr. 26; v. 285; p. 670.
- Morris, Louis H., Savannah, Ga. Wrench. No. 1,364,448; Jan. 4; v. 282; p. 78.
- Morris, Richard. (See Hasse, F. A., and Morris.)
- Morris, Robert T., New York, N. Y. Melting apparatus. No. 1,379,200; May 24; v. 286; p. 720.
- Morris, Stephen W., assignor of one-half to Gee Electric Company, Wheeling W. Va. Press for armature-colls. No. 1,393,035; Oct. 11.
- Morris, Thomas F., Waterford, N. Y. Punch-press. No. 1,389,263; Aug. 30; v. 289; p. 890.
- Morris, William A., Mullinville, Kans. Header attachment for harvester-thresher machines. No. 1,373,347; Mar. 29; v. 284; p. 899.
- Morris, William L. (See Booth, W. K., and Morris.)
- Morris, William L., Broseley, Mo. Egg-candler. No. 1,393,238; Oct. 11.
- Morris, William L., Chicago, Ill., assignor to The Booth Electric Furnace Co. Electrode-adjusting mechanism. No. 1,386,017; Aug. 2; v. 289; p. 11.
- Morris, William R., assignor to The Universal Engineering Construction and Power Company, Boise, Idaho. Water-motor. No. 1,377,719; May 10; v. 286; p. 311.
- Morrison, Arthur, Hamilton, Ill. Hog-feeder. No. 1,383,655; July 5; v. 288; p. 82.
- Morrison, Benjamin R., Wilmington, N. C. Toothbrush-holder. No. 1,369,460; Feb. 22; v. 283; p. 646.
- Morrison Corporation. (See Morrison, William C., assignor.)
- Morrison, Dudley R., Anderson, Ind. Hydrocarbon-engine. No. 1,382,008; June 21; v. 287; p. 431.
- Morrison, Freeland J., Cornell, Wis., assignor to Cornell Wood Products Co., Chicago, Ill. Sizing composition. No. 1,365,715; Jan. 18; v. 282; p. 406.
- Morrison, Freeland J., Cornell, Wis., assignor to Cornell Wood Products Co., Chicago, Ill. Non-absorbent material and process of manufacture. No. 1,365,716; Jan. 18; v. 282; p. 406.
- Morrison, George C., Denver, Colo., assignor to The Mechanical Manufacturing Company, Chicago, Ill. Ribbing-knife. No. 1,364,885; Jan. 11; v. 282; p. 206.
- Morrison, George D., Louisville, Ky. Signal and registering mechanism for well-drilling rigs. No. 1,375,410; Apr. 19; v. 285; p. 495.
- Morrison, Harry G., *et al.* (See Davenport, Hudson A., assignor.)
- Morrison, James, assignor to The Trailmobile Company, Cincinnati, Ohio. Fifth-wheel device. No. 1,377,138; May 3; v. 286; p. 144.
- Morrison, James, Cincinnati, assignor to The Trailmobile Company, Oakley, Cincinnati, Ohio. Combined motor and animal-draft vehicle. No. 1,396,652; Nov. 8.
- Morrison, James W., and T. W. Holt, Staleybridge, England. Doubling, twisting, and winding and like frame. No. 1,382,217; June 21; v. 287; p. 469.
- Morrison, John A., Mansfield, Ohio. Lifting-jack. No. 1,370,344; Mar. 1; v. 284; p. 111.
- Morrison, John M., Plattsburg, N. Y. Switch-lock. No. 1,381,732; June 14; v. 287; p. 320.
- Morrison, John W. (See Sanders, E. J., and Morrison.)
- Morrison, Lewis E., Newark, assignor to himself, and S. H. Plum, 2d, Madison, N. J. Transfer mechanism for printing-machines. No. 1,393,036; Oct. 11.
- Morrison, Lewis E., Newark, assignor to himself, and S. H. Plum, 2d, Madison, N. J. Tripping mechanism for printing machines. No. 1,393,037; Oct. 11.
- Morrison, Lewis E., Newark, assignor to himself, and S. H. Plum, 2d, Madison, N. J. Paper separating and feeding mechanism. No. 1,394,181; Oct. 18.
- Morrison, Lewis E., Newark, assignor to himself, and S. H. Plum, 2d, Madison, N. J. Jogger mechanism for printing-presses. No. 1,394,182; Oct. 18.
- Morrison, Lewis E., Newark, assignor to himself, and S. H. Plum, 2d, Madison, N. J. Gripping mechanism for printing-machines. No. 1,394,183; Oct. 18.
- Morrison, Louis A. (See Andreason, Christian, assignor.)
- Morrison, Robert. (See Lee, H. W., and Morrison.)
- Morrison, William, Troy, N. Y. Brush-back. No. 1,398,035; Nov. 22.
- Morrison, William, Chicago, Ill., assignor to John H. Brickenstein, Washington, D. C. Power system. No. 1,366,478; Jan. 25; v. 282; p. 599.
- Morrison, William A., and F. D. Lake, St. Catharines, Ontario, Canada. Electric heater. No. 1,372,823; Mar. 29; v. 284; p. 794.
- Morrison, William A., and F. D. Lake, St. Catharines, Ontario, Canada. Electric heater. No. 1,389,684; Sept. 6; v. 290; p. 25.
- Morrison, William B. (See Walker, W. B., Morrison, and Smith.)
- Morrison, William C., Pittsburgh, Pa., assignor to Morrison Corporation, Dover, Del. Automobile hoisting and tilting apparatus. No. 1,367,073; Feb. 1; v. 283; p. 38.
- Morrison, William F., Vallejo, Calif. Rail-clamp. No. 1,375,310; Apr. 19; v. 285; p. 477.
- Morriss, Frank E., London, England. Wind-screen. No. 1,393,239; Oct. 11.
- Morrissey, John T., Lincoln, Nebr. Spud-tool. No. 1,388,744; Aug. 23; v. 289; p. 744.
- Morrissey, Patrick W., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Conveyer. No. 1,381,328; June 14; v. 287; p. 243.
- Morrow, Clarence H., assignor to The National Formetal Company, Cleveland, Ohio. Safety device for machine elements. No. 1,369,832; Mar. 1; v. 284; p. 15.
- Morrow, George H., Portland, Oreg. Shim-holder. No. 1,368,646; Feb. 15; v. 283; p. 450.
- Morse, Albert W., Forest Hills, assignor to The Anthony Company, Long Island City, N. Y. Burner-support. No. 1,391,338; Sept. 20; v. 290; p. 513.
- Morse, Alfred B., assignor, by mesne assignments, to J. A. Morse, South Easton, Mass. Universal joint. No. 1,394,184; Oct. 18.
- Morse-Andrews Company. (See Guyot, Walter E., assignor.)
- Morse Chain Company. (See Morse, Frank L., assignor.)
- Morse, Charles S., Roland Park, Md., assignor to Baltimore Tube Company, Incorporated. Billet and method and means for casting the same. No. 1,387,290; Aug. 9; v. 289; p. 334.
- Morse, Charles S., Roland Park, Md., assignor to Baltimore Tube Company, Incorporated. Method and means for billet-casting. No. 1,387,291; Aug. 9; v. 289; p. 335.
- Morse, Charles S., Roland Park, Md., assignor to Baltimore Tube Company, Incorporated. Method and means for billet-casting. No. 1,387,292; Aug. 9; v. 289; p. 335.
- Morse, Charles S., Roland Park, Md., assignor to Baltimore Tube Company, Incorporated. Method and means for billet-casting. No. 1,387,293; Aug. 9; v. 289; p. 335.
- Morse, Clyde S., assignor of one-half to S. S. Morse, De Kalb, Ill. Resilient tire. No. 1,382,376; June 21; v. 287; p. 500.
- Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Sprocket gear-wheel. No. 1,386,272; Aug. 2; v. 289; p. 62.
- Morse, Harry J., Norwich, Conn. Shade-holder for incandescent electric lamps. No. 1,371,182; Mar. 8; v. 284; p. 316.
- Morse Instrument Company. (See Morse, Robert V., assignor.)
- Morse, Julia A. (See Morse, Alfred B., assignor.)
- Morse, Lawrence H. (See Tracy, J. J., and Morse.)
- Morse, Mark A., Jr., assignor to W. H. Ward, New Orleans, La. Fifth-wheel. No. 1,377,020; May 3; v. 286; p. 122.
- Morse, Robert V., Ithaca, N. Y. Submarine propulsion system. No. 1,367,708; Feb. 8; v. 283; p. 221.
- Morse, Robert V., Ithaca, N. Y. Bomb-dropping system. No. 1,374,314; Apr. 12; v. 285; p. 222.
- Morse, Robert V., assignor to Morse Instrument Company, Inc., Ithaca, N. Y. Wear-compensating gearing for instruments. No. 1,389,524; Aug. 30; v. 289; p. 941.
- Morse, Robert V., assignor to Morse Instrument Company, Inc., Ithaca, N. Y. Electric fuse-setter controller for anti-aircraft guns. No. 1,391,134; Sept. 20; v. 290; p. 471.
- Morse, S. F. B., *et al.* (See O'Neill, Frank, Jr., assignor.)
- Morse, Stella S. (See Morse, Clyde S., assignor.)
- Morse Twist Drill & Machine Company. (See Thomas, James, assignor.)
- Morse, Waldo G., Yonkers, N. Y. Composition of matter. No. 1,392,074; Sept. 27; v. 290; p. 735.
- Morson, Walter R., and E. B. Jarvis, Toronto, Ontario, Canada. Necktie-support. No. 1,391,339; Sept. 20; v. 290; p. 513.
- Mort, George F., deceased, by J. C. Mort, Ealing, England, executor. Adjustable work-carrying table for drilling and other machines. No. 1,397,771; Nov. 22.
- Mort, John C., executor. (See Mort, George F.)
- Mortensen, Hans, Sr., Penrose, Colo. Water-power system. No. 1,386,069; Aug. 2; v. 289; p. 22.
- Mortensen, Hans, Sr., Penrose, Colo. Ship propulsion. No. 1,365,939; Jan. 18; v. 282; p. 450.
- Mortimer, Charles G. (See Kimball, W. D., and Mortimer.)
- Mortimer, Charles G., East Orange, N. J. Device for delivering tape. No. 1,364,844; Jan. 4; v. 282; p. 153.
- Mortimer, Charles G., East Orange, N. J., assignor to National Binding Machine Company, New York, N. Y. Automatic sealing-machine. No. 1,378,889; May 24; v. 286; p. 662.
- Mortimer, Charles G., East Orange, N. J., assignor to National Binding Machine Company, New York, N. Y. Strip-serving device. No. 1,384,081; July 12; v. 288; p. 220.
- Mortimer, Charles G., East Orange, N. J., assignor to National Binding Machine Company, New York, N. Y. Strip-serving machine. No. 1,384,082; July 12; v. 288; p. 220.
- Mortimer, James. (See Lomas, H., and Mortimer.)
- Mortimer, Louis A., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,383,743; July 5; v. 288; p. 101.
- Mortimer, Louis A., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,384,398; July 12; v. 288; p. 286.
- Morton, Cavendish. (See Rathbone, R. L. B., and Morton.)
- Morton Corporation. (See Meyer, Alfred F., assignor.)
- Morton, Frederic C., New Haven, Conn. Tire-building machine. No. 1,399,979; Dec. 13.
- Morton, Harry D., Detroit, Mich. Piston and connecting-rod. No. 1,365,263; Jan. 11; v. 282; p. 278.



*Alphabetical list of patentees—Continued.*

- Morton, Harry D., assignor to Automatic Arc Welding Company, Detroit, Mich. Method of and apparatus for arc-welding. No. 1,392,436; Oct. 4.
- Morton, Harry D., assignor to Automatic Arc Welding Company, Detroit, Mich. Arc-welding system and operating the same. No. 1,392,437; Oct. 4.
- Morton, Henry. (See Berthelsen, Anders L., assignor.)
- Morton, Henry, Wood Bay, Manitoba, Canada. Grain-cleaning machine. No. 1,393,154; Oct. 11.
- Morton, James, Dentonhill, Carlisle, England. Manufacture of tapestry or printed carpets, rugs, table-covers, and the like. No. 1,391,785; Sept. 27; v. 290; p. 675.
- Morton, John R., League City, Tex. Garment-hanger. No. 1,374,024; Apr. 5; v. 285; p. 126.
- Morton, Richard D., Compton, Calif. Running-gear for vehicles. No. 1,375,311; Apr. 19; v. 285; p. 477.
- Morton, Robert P., Jr., Fairview, N. J. Drapery-hanger. No. 1,388,054; Aug. 16; v. 289; p. 538.
- Morton, Rufus J., Greensboro, N. C. Advertising display-stand. No. 1,388,745; Aug. 23; v. 289; p. 732.
- Morton, Samuel S., Harrisburg, Pa. Lever-lock. No. 1,382,529; June 21; v. 287; p. 529.
- Morton, Thomas, Rutherglen, Scotland. Internal-combustion engine. No. 1,384,846; July 19; v. 288; p. 460.
- Morton, Walter S., Harrisburg, Pa. Tractor. No. 1,371,641; Mar. 15; v. 284; p. 470.
- Morton, Zean E., Shawnee, Okla. Signaling device. No. 1,368,824; Feb. 15; v. 283; p. 484.
- Morwood, Holton R., Welland, Ontario, Canada. Vehicle. No. 1,397,174; Nov. 15.
- Mosby, John K., Wiggins, Miss. Surgical appliance. No. 1,389,525; Aug. 30; v. 289; p. 942.
- Mosca, Alessandro, Turin, Italy. Support for air-pumps of bicycles and like vehicles. No. 1,385,260; July 19; v. 288; p. 545.
- Moschel, Herman, assignor to The Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Side-delivery rotary rake. No. 1,371,511; Mar. 15; v. 284; p. 445.
- Moschel, William K., Rockford, Ill. Trolley-catcher. No. 1,370,146; Mar. 1; v. 284; p. 74.
- Moseley, Bessie, Sumter, S. C. Bedpan. No. 1,401,547; Dec. 27.
- Moseley, Emerson B., deceased; M. L. Moseley, administratrix, assignor to The McFaser Register Company, (Incorporated in 1914.) Alliance, Ohio. Filing-appliance case. No. 1,393,690; Oct. 11.
- Moseley, James F., Manchester, England. Insecticide. No. 1,395,860; Nov. 1.
- Moseley, Metta L., administratrix. (See Moseley, Emerson B.)
- Moser, William L., Winston-Salem, N. C. Vending-machine. No. 1,366,129; Jan. 18; v. 282; p. 486.
- Moses, Adolph, Mount Vernon, N. Y. Gas-engine valve. No. 1,365,531; Jan. 11; v. 282; p. 330.
- Moses, Asheleigh S. (See Youtsey, F. S., Walker, and Moses.)
- Moses, Asheleigh S., assignor to National Lead Company, New York, N. Y. Mixing white lead with oil. No. 1,371,926; Mar. 15; v. 284; p. 524.
- Moses, Edmund Q., New York, N. Y., assignor of one-half to W. P. Hammond, Passaic, N. J. Vehicle construction. No. 1,397,594; Nov. 22.
- Moses, Frank D., Trenton, N. J. Gas-generating apparatus. No. 1,378,125; May 17; v. 286; p. 443.
- Moses, Jacob M. (See Fry, Ernest T., assignor.)
- Moses, Nicholas P., assignor to Montgomery Ward & Co., Inc., Chicago, Ill. Insert for catalogs or specimen-books. No. 1,368,043; Feb. 8; v. 283; p. 284.
- Moses, Percival R. (See Johnston, Andrew L., Jr., assignor.)
- Moses, Raymond I. (See Davidson, Ira M., assignor.)
- Moses, Richard W., Coraopolis, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Roll-adjusting mechanism. No. 1,388,587; Aug. 23; v. 289; p. 701.
- Moses, Robert S., Kendallville, Ind. Fishing-reel. No. 1,398,197; Nov. 22.
- Moses, William B., Brookline, Mass. Electrical apparatus. No. 1,391,967; Sept. 27; v. 290; p. 713.
- Moses, William B., Brookline, assignor to Gray & Davis, Inc., Cambridge, Mass. Electric starting and lighting apparatus for automobiles. No. 1,380,113; May 31; v. 286; p. 967.
- Moses, William B., Watertown, assignor to Gray & Davis, Inc., Cambridge, Mass. Electromagnetic switch. No. 1,373,015; Mar. 29; v. 284; p. 833.
- Moses, William B., Watertown, assignor to Gray & Davis, Inc., Cambridge, Mass. Ignition apparatus. No. 1,383,229; June 28; v. 287; p. 717.
- Moses, William B., Watertown, assignor to Gray & Davis, Inc., Cambridge, Mass. Ignition apparatus. No. 1,395,590; Nov. 1.
- Moses, William B., Watertown, assignor to Gray & Davis, Inc., Cambridge, Mass. Ignition apparatus. No. 1,396,868; Nov. 15.
- Mosheim, Albert S. (See Mosheim, Gustave and A. S.)
- Mosheim, Gustave and A. S., East Orange, N. J. Powder-puff. No. 1,379,201; May 24; v. 286; p. 721.
- Mosher, Allen, Detroit, Mich. Non-glare reflector. No. 1,368,281; Feb. 15; v. 283; p. 379.
- Mosher, Arthur A., Corwith, Iowa. Aeroplane-propeller. No. 1,366,018; Jan. 18; v. 282; p. 465.
- Mosher, Charles D., New York, N. Y. Air-heating appliance. No. 1,364,135; Jan. 4; v. 282; p. 17.
- Mosher, Charles W., Cattaraugus, N. Y. Air moistening and distributing device. No. 1,394,859; Oct. 25.
- Mosher, Clifford C., Lima, Ohio. Hot-material storage-bin. No. 1,364,400; Jan. 4; v. 282; p. 68.
- Mosher, Clifford C., Lima, Ohio. Mixing-machine. No. 1,364,401; Jan. 4; v. 282; p. 69.
- Mosher, Clifford C., Lima, Ohio. Rubber-masticator. No. 1,371,046; Mar. 8; v. 284; p. 290.
- Mosher, Clifford C., Lima, Ohio. Machine for treating rubber compound or other plastic materials. No. 1,396,138; Nov. 8.
- Mosher, Grace, *et al.* (See Gregory, William F., assignor.)
- Mosher, John A., and W. H. Townsend, Wellington, Ohio. Velocipede. No. 1,374,513; Apr. 12; v. 285; p. 261.
- Mosher, Ralph E., Aurora, N. Y. Detachable lining for mud-guards. No. 1,390,634; Sept. 13; v. 290; p. 309.
- Moshier, James W., assignor to The Wallace Barnes Company, Bristol, Conn. Hammering-handle with interchangeable tools. No. 1,384,330; July 12; v. 288; p. 271.
- Moskowitz, Morris, Montclair, N. J. Brake mechanism for automobiles. No. 1,390,373; Sept. 13; v. 290; p. 254.
- Mosler, A. R., & Company. (See Margolin, George, assignor.)
- Mosler Lock Company. (See Benham, E. M., and Bartels, assignors.)
- Mosler, Moses, New York, N. Y., and C. Bartels, Hamilton, Ohio, assignor to The Mosler Safe Company, New York, N. Y. Safe. No. 1,399,512; Dec. 6.
- Mosler Safe Company, The. (See Mosler, M., and Bartels, assignors.)
- Mosmieri, Leonardo, Florence, Italy. Case for steam-boiler levels. No. 1,381,130; June 14; v. 287; p. 207.
- Moss, Benjamin, New York, N. Y. Marking-tool. No. 1,381,131; June 14; v. 287; p. 208.
- Moss, Benjamin L., Detroit, Mich. Fuse. No. 1,391,399; Sept. 20; v. 290; p. 525.
- Moss, Charles, assignor to Mossgrip Co. Inc., New York, N. Y. Antislipping attachment for vehicle-wheels. No. 1,393,810; Oct. 18.
- Moss, Charles M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Protective apparatus for dynamo-electric machines. No. 1,392,198; Sept. 27; v. 290; p. 760.
- Moss, Isidor, Brookline, Mass. Mount for snap-fasteners. No. 1,379,202; May 24; v. 286; p. 721.
- Moss, Isidor, Brookline, Mass. Snap-fastener. No. 1,380,826; June 7; v. 287; p. 96.
- Moss, Leopold. (See Wayda, Peter, assignor.)
- Moss, Roscoe. (See Anderson, Leonard A., assignor.)
- Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Ejector fluid-pump. No. 1,385,884; July 26; v. 288; p. 748.
- Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Condenser apparatus. No. 1,394,929; Oct. 25.
- Mossberg, Frank, Company. (See Tuttle, Walter L., assignor.)
- Mossberg, Frank, Attleboro, Mass. Manufacturing metal rings. No. 1,377,266; May 10; v. 286; p. 225.
- Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Beam-head. No. 1,380,669; June 7; v. 287; p. 65.
- Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Reel or beam. No. 1,380,670; June 7; v. 287; p. 66.
- Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Beam-head. No. 1,380,671; June 7; v. 287; p. 66.
- Mossberg, Frank, assignor to Mossberg Pressed Steel Corporation, Attleboro, Mass. Bobbin. No. 1,380,672; June 7; v. 287; p. 66.
- Mossberg Pressed Steel Corporation. (See Mossberg, Frank, assignor.)
- Mossgrip Co. (See Moss, Charles, assignor.)
- Mosholder, Walter, and G. J. Shultz, Mount Vernon, Ohio. Hose-clamp. No. 1,393,811; Oct. 18.
- Mossman, James, Cincinnati, Ohio. Removable protecting-cap for knitting-needles and the like. No. 1,376,964; May 3; v. 286; p. 112.
- Mossner, Peter C., Saginaw, Mich. Automatic reversing device for washing-machines. No. 1,392,961; Oct. 11.
- Most, Lucifer J., New York, N. Y. Engraving-machine. No. 1,395,861; Nov. 1.
- Mosure, Thomas J., Niles, Ohio. Time-controlled advertising device. No. 1,384,479; July 12; v. 288; p. 302.
- Mosure, Thomas J., Niles, Ohio. Exhibiting apparatus. No. 1,387,294; Aug. 9; v. 289; p. 335.
- Motala Verkstads Nya Aktiebolag. (See Von Porat, Karl H. V., assignor.)
- Möthe, Rudolf, Solingen, Germany. Nail-scissors. No. 1,383,556; July 5; v. 288; p. 61.
- Moto-Mower Company. (See Jenkins, Charles F., assignor.)
- Motometer Company, The. (See Hammond, William P., assignor.) (Reissue.)
- Motor-Compressor Company, The. (See Spohrer, Gregory J., assignor.)



- Motor Ignition & Devices Company. (See Hughes, Dow B., assignor.)
- Motor Macultivator Company, The. (See McCarthy, Charles S., Jr., assignor.)
- Motor Products Corporation. (See Pritchard, William S., assignor.)
- Motor Protector Manufacturing Company. (See Mooers, B. M., and Warner, assignors.)
- Motor Radiator & Manufacturing Corporation, The. (See Hromadko, Joseph A., assignor.)
- Motorcycle Sweeper Company. (See Hoffer, F. C., and Smedley, assignors.)
- Motorcycle Sweeper Company. (See McDougall, T., and Smedley, assignors.)
- Motorwagenfabrik Berna A.-G. (See Rutishauser, Arnold, assignor.)
- Motowski, John. (See Rick, J., and Motowski.)
- Mott, Abram C., Jr., assignor to Abram Cox Stove Company, Philadelphia, Pa. Smoke-consuming furnace. No. 1,372,534; Mar. 22; v. 284; p. 697.
- Mott, Abram C., Jr., and A. J. Meyer, assignor to Abram Cox Stove Company, Philadelphia, Pa. Gas-range. No. 1,390,809; Sept. 13; v. 290; p. 343.
- Mott, Arthur H., Winston-Salem, N. C. Door-bolt. No. 1,377,091; May 3; v. 286; p. 135.
- Mott, Carl W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Power-operated plow. No. 1,394,930; Oct. 25.
- Mott, Samuel B., Noblesville, Ind. Liquid-meter. No. 1,372,768; Mar. 29; v. 284; p. 783.
- Mott, Samuel B., Noblesville, Ind. Ash-remover. No. 1,381,132; June 14; v. 287; p. 208.
- Mott, Samuel D., Passaic, assignor of one-half to A. B. Sullivan, Allendale, N. J. High-altitude flying-machine. No. 1,380,406; June 7; v. 287; p. 15.
- Motteau, Antime, Buenos Aires, Argentina. Metallic frame for windows and the like. No. 1,367,418; Feb. 1; v. 283; p. 106.
- Motteau, Antime, Buenos Aires, Argentina. Metallic curtain. No. 1,374,514; Apr. 12; v. 285; p. 261.
- Motter, Andrew, Buffalo, N. Y. Scouring device. No. 1,395,652; Nov. 1.
- Motteram, William C., Philadelphia, Pa. Tank for developing photographic films. No. 1,367,074; Feb. 1; v. 283; p. 38.
- Mottier, Walter F., El Campo, Tex. Clutch and transmission mechanism. No. 1,377,498; May 10; v. 286; p. 271.
- Mottier, Walter F., El Campo, Tex. Hay-rake. No. 1,401,274; Dec. 27.
- Mottlau, August J. (See Kennedy, W. A., and Mottlau.)
- Mottlau, August J., assignor to A. Mecky Company, Philadelphia, Pa. Coaster-brake. No. 1,398,883; Nov. 29.
- Motznik, Rudolf, Cuyahoga Falls, Ohio. Automatic belt-shifter. No. 1,364,574; Jan. 4; v. 282; p. 101.
- Mouat, Robert M., Leonia, N. J., assignor to Mouat-Swan Corporation. Display device. No. 1,401,632; Dec. 27.
- Mouat-Swan Corporation. (See Mouat, Robert M., assignor.)
- Mouawad, John J., assignor of one-half to A. Nassour, Newark, N. J. Straw-delivering mechanism. No. 1,396,720; Nov. 8.
- Mouchet, Theodore S., Bowersville, assignor to Perfect Pea Picker Company, Hartwell, Ga. Pea-picker. No. 1,384,626; July 12; v. 288; p. 334.
- Moulin, Auguste D., Paris, France. Motorcycle-engine starter. No. 1,394,753; Oct. 25.
- Moulin, René, Paris, France. Portable diffusion apparatus. No. 1,377,909; May 10; v. 286; p. 350.
- Mouthrop, Louis S. (See Jaques, Fernando O., Jr., assignor.)
- Mount, Lambton L., St. John's Wood, London, England. Glass-melting furnace. No. 1,395,591; Nov. 1.
- Mount, Thomas L., Philadelphia, Pa. Generator suspension. No. 1,381,329; June 14; v. 287; p. 243.
- Mount, William D., Lynchburg, Va. Power-transmission device. No. 1,392,348; Oct. 4.
- Mountain, Herbert G., Washington, D. C. Artificial-limb joint. No. 1,364,948; Jan. 11; v. 282; p. 218.
- Mountain, Herbert G., Washington, D. C. Hinge-joint for artificial limbs. No. 1,365,532; Jan. 11; v. 282; p. 331.
- Mountford, Frederick, Northfield, and R. Standen, Small Heath, Birmingham, England. Die-head for screw-cutting. No. 1,394,107; Oct. 18.
- Mountford, Thomas, Newark, N. J. Setting for precious stones. No. 1,385,702; July 26; v. 288; p. 712.
- Mouser, Minnie C., San Diego, Calif. Tatting-book. No. 1,379,930; May 31; v. 286; p. 932.
- Mousley, Frank, Mortlake, London, England. Face-powder box or container. No. 1,370,833; Mar. 8; v. 284; p. 250.
- Mousseaux, Eugene, Le Mans, France. Stock for single-barreled or double-barreled guns. No. 1,393,812; Oct. 18.
- Moutier, Anatole L., et al. (See Miot, Hubert F. H. G., assignor.)
- Mowery, Leroy D. (See Hauserman, E. F., Mowery, Smith, and Osterman.)
- Mowry, David C., Geneva, Nebr. Road-working machine. No. 1,384,207; July 12; v. 288; p. 246.
- Mowry, David C., Geneva, Nebr. Road-working machine. No. 1,395,450; Nov. 1.
- Mowry, Edward, Sterling, Ill., assignor to International Harvester Company. Caster-wheel. No. 1,395,449; Nov. 1.
- Mowry, Edward S., Middletown, Conn. Metal-coating metallic articles. No. 1,397,175; Nov. 15.
- Moyer, Fredellia H., Johnstown, Pa. Demountable rim. No. 1,401,430; Dec. 27.
- Moyer, Fredellia H., Cleveland, Ohio, assignor to General Rim Company, New York, N. Y. Demountable rim. (Reissue.) No. 15,166; July 26; v. 288; p. 766.
- Moyer, Malcolm B., Montevideo, Minn. Fresh-air valve for buildings. No. 1,397,739; Nov. 22.
- Moyer, William W., Camden, N. J., assignor to Victor Talking Machine Company. Sound-box for talking-machines. No. 1,393,691; Oct. 11.
- Moyer, Virgil W., Pawhuska, Okla. Temper-screw yoke. No. 1,397,595; Nov. 22.
- Moyle, John W. (See De Haven, William L., assignor.)
- Moyles, James W., Chicago, Ill. Combined sleeve-puller and lifting-jack. No. 1,400,897; Dec. 20.
- Moynihan, Jeremiah A., Minneapolis, Minn. Car-replacer. No. 1,385,571; July 26; v. 288; p. 685.
- Moystad, Johan K., Christiania, Norway. Fuel-injecting apparatus for internal-combustion engines. No. 1,388,588; Aug. 23; v. 289; p. 701.
- Mozur, Kasimer W. (See Mozur, Stanislaus J., assignor.)
- Mozur, Stanislaus J., assignor to K. N. Mozur, Erie, Pa. Safety-valve. No. 1,376,565; May 3; v. 286; p. 35.
- Mrazek, Joseph, New York, N. Y. Container. No. 1,383,838; July 5; v. 288; p. 121.
- Mrazek, Joseph F., Cedar Rapids, Iowa. Can-capping machines. No. 1,366,742; Jan. 25; v. 282; p. 651.
- Muck, John, Milwaukee, Wis. Clothespin. No. 1,378,890; May 24; v. 286; p. 662.
- Muck, John, Milwaukee, Wis. Machine for making wire clothespins. No. 1,389,893; Sept. 6; v. 290; p. 63.
- Muck, John, Milwaukee, Wis. Roller-skate. No. 1,393,813; Oct. 18.
- Mudd, George T., Bardstown, Ky. Child's seat for barber's chairs. No. 1,370,986; Mar. 8; v. 284; p. 279.
- Mudge & Company. (See De Brun, Frank H., assignor.)
- Mueller, Adolph, trustee. (See Mueller, P., and Schuermann, assignors.)
- Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)
- Mueller, Adolph, trustee. (See Mueller, Robert H., assignor.)
- Mueller, Adolph, trustee. (See Schuermann, Anton C., assignor.)
- Mueller, Albert B., Chicago, Ill. Picture-projection apparatus. No. 1,389,775; Sept. 6; v. 290; p. 43.
- Mueller, Albert B., Chicago, Ill. Picture-projection apparatus. No. 1,389,776; Sept. 6; v. 290; p. 43.
- Mueller, August Q., and W. H. Koeller, Milwaukee, Wis. Manifold-heater. No. 1,399,980; Dec. 13.
- Mueller, Augusto E., Chicago, Ill. Washing-machine. No. 1,396,456; Nov. 8.
- Mueller, Bernhard A., East St. Louis, Ill. Air-moistener for hot-air furnaces. No. 1,384,331; July 12; v. 288; p. 271.
- Mueller, Charles F., Elizabeth, N. J. Screw-wrench. No. 1,376,721; May 3; v. 286; p. 64.
- Mueller, Charles W., St. Louis, Mo. Gear-shift-lever lock for automobiles. No. 1,389,816; Aug. 30; v. 289; p. 900.
- Mueller, Curt B., Cleveland, Ohio. Score-sheet. No. 1,373,016; Mar. 29; v. 284; p. 834.
- Mueller, Curt B., West Park, and H. Elsele, Cleveland, Ohio; said Elsele assignor to said Mueller. Shoe-spike guard. No. 1,379,646; May 31; v. 286; p. 879.
- Mueller, Frederick E., Mount Vernon, assignor to The Norma Company of America, Long Island City, N. Y. No. 1,366,130; Jan. 18; v. 282; p. 486.
- Mueller, Frederick M. (See Alvin, Alleyne D., assignor.)
- Mueller, George E., Aurora, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Semi-automatic telephone system. No. 1,391,135; Sept. 20; v. 290; p. 472.
- Mueller, George E., Aurora, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone-exchange system. No. 1,391,136; Sept. 20; v. 290; p. 472.
- Mueller, Herman C., Milwaukee, Wis. Internal-combustion engine. No. 1,372,896; Mar. 29; v. 284; p. 810.
- Mueller, Herman C., Milwaukee, Wis. Four-pole magneto-generator. No. 1,394,108; Oct. 18.
- Mueller, Joseph, Terre Haute, Ind. Clutch-release. No. 1,383,328; July 5; v. 288; p. 14.
- Mueller, Max M., Chicago, Ill. Steering-gear lock for motor-vehicles. No. 1,381,000; June 7; v. 287; p. 130.
- Mueller Metals Company. (See Heiby, C. G., Hill, and Lindquist, assignors.)
- Mueller Metals Company. (See Heiby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau, assignors.)
- Mueller, Paul F., Norfolk, Va., assignor to Norfolk Power Appliance Corporation. Transmission mechanism. No. 1,374,154; Apr. 5; v. 285; p. 150.
- Mueller, Paul M., assignor to American Sterilizer Company, Erie, Pa. Heating-element-controlling device. No. 1,388,589; Aug. 23; v. 289; p. 701.



## Alphabetical list of patentees—Continued.

- Mueller, Paul M., assignor to American Sterilizer Company, Erie, Pa. Electric-heating-element-controlling device. No. 1,395,002; Oct. 25.
- Mueller, Paul M., Hartford, Conn., assignor to American Sterilizer Company, Erie, Pa. Electric-heating-element-controlling device. No. 1,395,003; Oct. 25.
- Mueller, Philip, Decatur, Ill., assignor to Adolph Mueller, trustee, Water-strainer. No. 1,370,147; Mar. 1; v. 284; p. 74.
- Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Lead-pipe connection. No. 1,372,363; Mar. 22; v. 284; p. 664.
- Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Adjustable escutcheon. No. 1,377,597; May 10; v. 286; p. 289.
- Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Saddle-retaining clip for nipples. No. 1,372,628; Mar. 22; v. 284; p. 715.
- Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Machine for flanging soft-metal pipes. No. 1,383,839; July 5; v. 288; p. 121.
- Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Combined foundation-plate and tplement. No. 1,394,755; Oct. 25.
- Mueller, Philip, and A. C. Schuermann, assignors to A. Mueller, trustee, Decatur, Ill. Elastic-valve stem. No. 1,394,756; Oct. 25.
- Mueller, Philip, A. C. Schuermann, and R. H. Mueller, assignors to A. Mueller, trustee, Decatur, Ill. Machine for hanging soft-metal pipes. No. 1,383,840; July 5; v. 288; p. 121.
- Mueller, Philip J. (See Letirick, T. L., and Mueller.)
- Mueller, Robert H. (See Mueller, P. Schuermann, and Mueller.)
- Mueller, Robert H., assignor to A. Mueller, trustee, Decatur, Ill. Service-box. No. 1,394,754; Oct. 25.
- Mueller, Theodore C., assignor of one-half to W. L. Kemper, Topeka, Kans. Sealing device. No. 1,385,749; July 26; v. 288; p. 721.
- Muench, Frank J., and J. L. Newark, N. J. Gearing driving unit. No. 1,401,916; Dec. 27.
- Muench, John L. (See Muench, Frank J. and J. L.)
- Muench, Arthur, Oakland, Calif. Motor-vehicle axle. No. 1,396,869; Nov. 15.
- Muff, Adam, Buffalo, N. Y. Manufacture of wing-nut blanks. No. 1,395,762; Nov. 1.
- Mudfler Phone Mfg. Co. (See Petri-Palmedo, David, assignor.)
- Muffy, Glenn, Chicago, Ill. Motor. No. 1,377,723; May 10; v. 286; p. 312.
- Mugno, Joseph, Jr., assignor, by mesne assignments, to Modern Rolling Window Screen Co., Inc., Brooklyn, N. Y. Roller-screen. No. 1,373,256; Mar. 29; v. 284; p. 881.
- Muhlbach, Herman C., assignor to International Motor Company, New York, N. Y. Wheel. No. 1,374,217; Apr. 12; v. 285; p. 203.
- Muhleisen, Henry W., and C. Lund, assignors to W. S. Rush & Co., Los Angeles, Calif. Adjustable internal brake-shoe. No. 1,397,772; Nov. 22.
- Muhlfeld, John E., Scarsdale, N. Y., assignor, by mesne assignments, to Locomotive Pulverized Fuel Company. Pulverized-fuel-burning locomotive. No. 1,393,240; Oct. 11.
- Muir, William H., assignor to Jenks & Muir Manufacturing Company, Detroit, Mich. Bed. No. 1,397,773; Nov. 22.
- Mukojima, Yuji, Minowa, near Tokyo, Japan. Double-flow fountain-pen or reservoir-pen. No. 1,383,416; July 5; v. 288; p. 33.
- Mulcahy, James E., Cleveland, Ohio. Packing-case. No. 1,373,091; Mar. 29; v. 284; p. 847.
- Muldoon, John F., Melrose, Mass. Tube construction. No. 1,400,452; Dec. 13.
- Mülertz, André, Copenhagen, Denmark. Sterilization or pasteurization of liquids. No. 1,379,875; May 31; v. 286; p. 921.
- Mülertz, André, Copenhagen, Denmark. Apparatus for sterilization or pasteurization of liquids. No. 1,396,520; Nov. 8.
- Mulertz, Catharine D., San Francisco, assignor of one-half to L. E. Taylor, Modesto, Calif. Non-skid tire attachment. No. 1,389,777; Sept. 6; v. 290; p. 43.
- Mulford, Frank B., St. Louis, Mo. Vehicle-wheel. No. 1,389,778; Sept. 6; v. 290; p. 44.
- Mulford, H. K., Company. (See Pittinger, Paul S., assignor.)
- Mulford, Louis K., Denver, Colo. Curtain attachment for windshields. No. 1,400,567; Dec. 20.
- Mulherin, James A., assignor of one-third to H. D. Delkeskamp, St. Louis, Mo. Bath brush and sprayer. No. 1,395,763; Nov. 1.
- Mulholland, John H., Philadelphia, Pa. Spoon-molding machine. No. 1,372,535; Mar. 22; v. 284; p. 697.
- Mull, Arthur, Chicago, Ill. Wheel-protector. No. 1,381,583; June 14; v. 287; p. 291.
- Mullaly, Joseph H., Winnipeg, Manitoba, Canada. Collar attachment. No. 1,377,499; May 10; v. 286; p. 271.
- Mullally, Reginald. (See Buckley, J. A., and Nadeau, assignors.)
- Mullan, Alva F., Tacoma, Wash. Nut-turning machine. No. 1,364,296; Jan. 4; v. 282; p. 49.
- Mullaney, Benjamin F., assignor to J. Purdon, trustee, Boston, Mass. Storage-building. No. 1,390,635; Sept. 13; v. 290; p. 309.
- Mullen, George W., Elmhurst, N. Y., assignor to H. B. Bishop, Summit, N. J. Recovering metallic constituents from a mixture thereof. No. 1,377,217; May 10; v. 286; p. 215.
- Mullen, James J., *et al.* (See Carter, Lionel A., assignor.)
- Mullen & Pope Screen Company. (See Pope, Edward J., assignor.)
- Mullenex, Brisco J., Afton, N. Y. Hose-coupling. No. 1,384,332; July 12; v. 288; p. 271.
- Müller, Arthur, Charlottenburg, near Berlin, Germany. Striking-plate tile-making machine. No. 1,366,583; Jan. 25; v. 282; p. 620.
- Muller, Charles E., New York, N. Y. Alarm. No. 1,371,183; Mar. 8; v. 284; p. 316.
- Müller, Enrique, El Paso, Tex. Filtering material. No. 1,375,532; Apr. 19; v. 285; p. 519.
- Müller, Ferdinand C. H., Sandusky, Ohio, assignor to The Matthews Engineering Company. Castellating-machine. No. 1,369,121; Feb. 22; v. 283; p. 581.
- Müller, Fred W., Hoboken, N. J. Bottle-filling apparatus. No. 1,384,537; July 12; v. 288; p. 314.
- Müller, Fred W., Hoboken, N. J. Bottle-filling apparatus. No. 1,384,538; July 12; v. 288; p. 315.
- Müller, Fred W., Hoboken, N. J. Bottle-filling apparatus. No. 1,387,507; Aug. 16; v. 289; p. 430.
- Müller, Friederich, assignor to Pratt & Whitney Company, Hartford, Conn. Grinding-machine and grinding. No. 1,365,337; Jan. 11; v. 282; p. 292.
- Müller, Friederich, assignor to The Whitney Mfg. Co., Hartford, Conn. Chain-assembling machine. No. 1,365,940; Jan. 18; v. 282; p. 450.
- Muller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Machine for and method of milling blanks for cutters. No. 1,376,155; Apr. 26; v. 285; p. 670.
- Müller, Friederich, assignor to Pratt & Whitney Company, Hartford, Conn. Relieving-lathe. (Reissue.) No. 15,157; July 19; v. 288; p. 563.
- Müller, Friederich, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Cutter-grinding machine. (Reissue.) No. 15,206; Oct. 11.
- Müller, George, Wurttemberg, Germany. Device for use with nails. No. 1,399,306; Dec. 6.
- Muller, Henry, East Orange, N. J. Calculating device. No. 1,397,596; Nov. 22.
- Müller, Henry, Waterbury, Conn. Emery-cloth holder. No. 1,394,757; Oct. 25.
- Müller, Jakob, Veltheim, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine air-compressor. No. 1,381,133; June 14; v. 287; p. 208.
- Muller, John H., Secane, Pa. Electric contact-point. No. 1,367,752; Feb. 8; v. 283; p. 229.
- Müller, Karl, and E. Ganz, Zurich, Switzerland. Device for generating hyperboliform curves described by a point. No. 1,365,184; Jan. 11; v. 282; p. 263.
- Müller, Max, Finkenwalde, near Stettin, Germany. Manufacture of artificial threads, ribbons, films, or plates from viscose. No. 1,386,521; Aug. 2; v. 289; p. 109.
- Müller, Oskar, Stuttgart, Germany. Drying apparatus. No. 1,364,402; Jan. 4; v. 282; p. 69.
- Müller, Philipp, Vilbel, near Frankfurt-on-the-Main, Germany. Drying liquids and the like. No. 1,364,403; Jan. 4; v. 282; p. 69.
- Müller, Philipp, Leipzig, Germany. Device for atomizing and drying or evaporating milk and other liquid substances. No. 1,397,445; Nov. 15.
- Muller, Robert L., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,397,774; Nov. 22.
- Müller, Victor, assignor to Moran, Müller & Morris, Philadelphia, Pa. Composition for treating steel. No. 1,372,364; Mar. 22; v. 284; p. 664.
- Mullican, Charles H., Macy, Ind. Lamp-burner. No. 1,383,964; July 5; v. 288; p. 146.
- Mulligan, Joseph O., McKees Rocks, Pa. Wire-splicer. No. 1,391,137; Sept. 20; v. 290; p. 472.
- Mullikin, Levin H., Easton, Md. Braking mechanism for talking-machine motors. No. 1,395,725; Nov. 1.
- Mullikin, Levin H., Easton, Md. Brake mechanism for talking-machine motors. No. 1,395,726; Nov. 1.
- Mullin, Francis R. (See McSwiney, Daniel J., assignor.)
- Mullins, Cyrus B., jr., Rocky City, Okla. Game. No. 1,379,711; May 31; v. 286; p. 891.
- Mullins, Frank M., Havelock, New Brunswick, Canada. Fastener. No. 1,374,025; Apr. 5; v. 285; p. 126.
- Mullins, Fred J., Pittsburg, assignor to T. F. Booth Co., San Francisco, Calif. Fish-stringer. No. 1,373,826; Apr. 5; v. 285; p. 87.
- Mullins, John C., Jr., assignor of one-half to C. O. Ramsey, Coeburn, and one-fourth to I. N. Kelley, Big Stone Gap, Va. Thrust-bearing for Ford motor-shafts. No. 1,393,305; Oct. 11.
- Mullins, John C., Jr., Coeburn, assignor, by mesne assignments, of one-eighth to B. F. Hillman, Flatwoods, one-eighth to J. H. Beverly, one-fourth to S. P. Buchanan, one-sixteenth to C. M. Wolfe, one-sixteenth to C. M. T. Holbrook, and one-eighth to W. E. Cox, Coeburn, Va. Transmission for the propeller-shafts of aeroplanes. No. 1,369,044; Feb. 22; v. 283; p. 586.



*Alphabetical list of patentees—Continued.*

- Mullins, Shelby S., Stuttgart, Ark. Bead-clasp base. No. 1,380,827; June 7; v. 287; p. 96.
- Mullvain, E. E., *et al.*, trustees. (See Hulbert, Ansel C., assignor.)
- Muloch, William R., Winnipeg, Manitoba, Canada. Sled-propeller. No. 1,401,275; Dec. 27.
- Mulock, William R., Winnipeg, Manitoba, Canada. Noise-reducing typewriter-platen. No. 1,382,218; June 21; v. 287; p. 469.
- Multicolor Company. (See Waite, Edwin E., assignor.)
- Multicolor Printing and Machinery Company. (See Galland, C. N., and Kelsey, assignors.)
- Multiple Electric Company. (See Bronson, Ralph C., assignor.)
- Multiple Offset Machine Co. (See Ogden, Ashley G., assignor.)
- Multiple Storage Battery Co. (See Sturges, Norman D., assignor.)
- Multipost Company. (See Schweiger, William F., assignor.)
- Multi-Print System Co. (See Wyrick, Clayton E., assignor.)
- Mulvane, Bert, Cleveland, Ohio. Automobile-jack. No. 1,380,405; June 7; v. 287; p. 15.
- Mulvany, Harry A., and H. E. Kennedy, Berkeley, Calif. X-ray-tube-controlling mechanism. No. 1,387,162; Aug. 9; v. 289; p. 310.
- Mulvehill, John D., Seattle, Wash. Indicating-signal for automobiles. No. 1,374,944; Apr. 19; v. 285; p. 405.
- Mulvihill, Daniel C., Hannibal, Mo. Switch stand and target. No. 1,384,148; July 12; v. 288; p. 234.
- Mulzer, Herman R., Evanston, Ind. Rail-splice. No. 1,369,697; Feb. 22; v. 283; p. 693.
- Mumford Molding Machine Company. (See Gates, Philetus W., assignor.)
- Mumford, Russell W., New York, N. Y., assignor to Refining Products Corporation, Wilmington, Del. Manufacture of milk-sugar. No. 1,366,822; Jan. 25; v. 282; p. 668.
- Mumford, Russell W., New York, N. Y., assignor, by mesne assignments, to Darco Corporation, Wilmington, Del. Clarifying and decolorizing oils. No. 1,377,021; May 3; v. 286; p. 122.
- Mumford, Russell W., New York, N. Y., assignor, by mesne assignments, to Darco Corporation, Wilmington, Del. Making a purifying agent. No. 1,396,773; Nov. 15.
- Mummery, Edwin G., Detroit, Mich. Hydrocarbon-burner. No. 1,373,144; Mar. 29; v. 284; p. 858.
- Munce, Margaret I., Washington, Pa. Protector for closet-seats. No. 1,368,825; Feb. 15; v. 283; p. 485.
- Muncie Oil Engine Company. (See Livingston, Troy R., assignor.)
- Mund, Isidore, and M. Starr, Detroit, Mich. Check-protector. No. 1,364,575; Jan. 4; v. 282; p. 102.
- Mundale, Clarence P., Seattle, Wash. Tire-mold. No. 1,379,203; May 24; v. 286; p. 721.
- Münder y Barrié, Arturo, Habana, Cuba. Faucet. No. 1,384,670; July 12; v. 288; p. 343.
- Munderback, John H., Watertown, N. Y. Automatic railway safety appliance. No. 1,400,091; Dec. 13.
- Munger, Edgar O., Geneva, Ohio. Bench-vise. No. 1,373,198; Mar. 29; v. 284; p. 870.
- Munger, Frederick, Ellsworth, Nebr., assignor of one-half to C. Von Woehrmann, Hill City, S. D. Cutting tool. No. 1,382,219; June 21; v. 287; p. 470.
- Munhollon, Frank, Cleveland, Ohio. Brick-kiln. No. 1,375,719; Apr. 26; v. 285; p. 587.
- Munhollon, Frank, Cleveland, Ohio. Firing kilns. No. 1,399,070; Dec. 6.
- Muniz, Jesus B., Habana, Cuba. Signaling device for vehicles. No. 1,375,720; Apr. 26; v. 285; p. 587.
- Munkel, Walter G., Anamosa, Iowa. Flush-tank and flush-valve therefor. No. 1,379,712; May 31; v. 286; p. 891.
- Munn, George B. (See Amann, Charles, assignor.)
- Munn, Neil D., Dresden, Ontario, Canada. Door-checking device. No. 1,386,196; Aug. 2; v. 289; p. 47.
- Munnell, Charles B., Broken Bow, Nebr. Doubletree. No. 1,370,834; Mar. 8; v. 284; p. 251.
- Munning, A. P., & Co. (See Taylor, Floyd T., assignor.)
- Munning-Loeb Company. (See Taylor, F. P., and Hall, assignors.)
- Munro, Alexander L. (See McNanamen, J. J., Smith, and Munro.)
- Munro, David L., Newton, Mass. Check-dispensing machine. No. 1,367,667; Feb. 8; v. 283; p. 213.
- Munro & Harford Company, The. (See Schulman, David D., assignor.)
- Munro, Roy C., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Carline. No. 1,378,051; May 17; v. 286; p. 429.
- Munschauer, Frederick E., assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Gage for sheet-metal shears, &c. No. 1,366,409; Jan. 25; v. 282; p. 585.
- Munshaw, Frank B., Grand Rapids, assignor of one-third to H. Munshaw and one-third to E. N. Barnard, Detroit, Mich. Tilling implement. No. 1,368,962; Feb. 15; v. 283; p. 510.
- Munshaw, Harold, *et al.* (See Munshaw, Frank B., assignor.)
- Munsing, George D., New York, N. Y. Can-opener. No. 1,397,537; Nov. 22.
- Munsing, George D., New York, N. Y. Egg-beater. No. 1,400,309; Dec. 13.
- Munson, Henry L., Fort Wayne, Ind. Heating device. No. 1,380,673; June 7; v. 287; p. 66.
- Munson, Howard B., St. Louis, Mo., assignor of one-half to Wilder and Company, Chicago, Ill. Heel-breasting machine. No. 1,397,897; Nov. 22.
- Munson Supply Company. (See Coomber, James J., assignor.)
- Munson, Sweney, Fowler, Colo. Shock-absorbing mechanism. No. 1,370,835; Mar. 8; v. 284; p. 251.
- Munson, Sweney, Scammon, Kans. Bolt-lock. (Reissue.) No. 15,246; Dec. 13.
- Munson, William R., Sharon, Pa. Detachable rainproof top for baby-carriages. No. 1,377,910; May 10; v. 286; p. 350.
- Muntean, Lazarus, Highland Park, Mich. Restaurant system. No. 1,377,969; May 10; v. 286; p. 361.
- Munteanu, George. (See Berecky, W., and Munteanu.)
- Munter, Charles, New York, N. Y. Laced article of apparel. No. 1,367,419; Feb. 1; v. 283; p. 107.
- Munter, Charles, New York, N. Y. Combined abdominal support and shoulder-brace. No. 1,367,420; Feb. 1; v. 283; p. 107.
- Munter, Charles, New York, N. Y. Combined abdominal support and shoulder-brace. No. 1,367,421; Feb. 1; v. 283; p. 107.
- Munter, Charles, New York, N. Y. Garment and stay therefor. No. 1,376,219; Apr. 26; v. 285; p. 682.
- Munters, Anders J. E., assignor to Aktiebolaget Pump-Separator, Stockholm, Sweden. Driver for wheels, shafts, and the like. No. 1,397,819; Nov. 22.
- Muntz, John W., Holgate, Ohio. Blower. No. 1,385,261; July 19; v. 288; p. 545.
- Muntz, William E., London, England. Valve. No. 1,394,931; Oct. 25.
- Münz, Friedrich, Stuttgart, Germany. Error-preventing terminal for dynamos. No. 1,372,446; Mar. 22; v. 284; p. 680.
- Münz, Friedrich, Stuttgart, Germany. Voltage-regulator for electric dynamos. No. 1,373,520; Apr. 5; v. 285; p. 28.
- Munz, Mary F., Milwaukee, Wis. Washing apparatus. No. 1,390,636; Sept. 13; v. 290; p. 309.
- Munz, William. (See Marvin, S. S., and Munz.)
- Munzer, William R., Emetta, Minn. Ax. No. 1,378,973; May 24; v. 286; p. 677.
- Munzlinger, Richard, St. Louis, Mo. Dumping-truck. No. 1,387,163; Aug. 9; v. 289; p. 310.
- Munzner, Charles. (See Meacham, B. E., and Munzner.)
- Muratori, Alfredo, Rome, Italy, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Electrical measuring instrument. No. 1,392,199; Sept. 27; v. 290; p. 760.
- Murdick, Everett C. (See Graham, J. H., and Murdick.)
- Murdoch, Wm. C., Jr., *et al.* (See Wann, John T., assignor.)
- Murdoch, Andrew G., Highland Park, Mich. Hinge-gage. No. 1,400,898; Dec. 20.
- Murdock, George J., Newark, N. J. Self-puncture-sealing covering for fuel-containers. No. 1,386,791; Aug. 9; v. 289; p. 236.
- Murdock, James A., Kentish Town, London, England. Pianoforte-soundboard. No. 1,377,218; May 10; v. 286; p. 216.
- Murdock, Kelso, assignor to The Murdock Manufacturing and Supply Co., Cincinnati, Ohio. Supply and drain cap for antifreeze-hydrants. No. 1,385,572; July 26; v. 288; p. 685.
- Murdock Manufacturing and Supply Co., The. (See Bart, Thomas E., assignor.)
- Murdock Manufacturing and Supply Co., The. (See Murdock, Kelso, assignor.)
- Murdock, William J., Clinton, Ind. Stop for talking-machines. No. 1,391,565; Sept. 20; v. 290; p. 559.
- Murlin, John R., and W. P. Garrety, U. S. Army. Apparatus for determining proportions in compounds and mixtures. No. 1,386,420; Aug. 2; v. 289; p. 90.
- Murnane, Daniel J., Chicago Heights, Ill. Frame structure. No. 1,376,895; May 3; v. 286; p. 98.
- Murnane, Daniel J., Chicago Heights, Ill., and J. P. Lavigne, assignors to Detroit Mechanical Engineering Company, Detroit, Mich. Steering-gear adjustment. No. 1,368,044; Feb. 8; v. 283; p. 284.
- Murnin, John A., Columbus, Ohio. Lifting-jack. No. 1,378,265; May 17; v. 286; p. 469.
- Murphey, Frank P., and C. E. Bickel, Butler, Pa. Chain-attaching device. No. 1,380,921; June 7; v. 287; p. 114.
- Murphey, James A., Philadelphia, Pa. Spring-wheel. No. 1,366,206; Jan. 18; v. 282; p. 501.
- Murphey, James A., Philadelphia, Pa. Automobile-lock. No. 1,367,200; Feb. 1; v. 283; p. 63.
- Murphey, Samuel R., *et al.* (See Tow, John Z., assignor.)
- Murphy, A. (See Okun, Morris B., assignor.)
- Murphy, Alfred F. (See Cameron, Lloyd E., assignor.)
- Murphy, Carroll D., Chicago, Ill. Advertising lay-out scale. No. 1,369,833; Mar. 1; v. 284; p. 15.
- Murphy, Charles G., Trafford, Pa. Hinge. No. 1,383,230; June 28; v. 287; p. 717.



*Alphabetical list of patentees—Continued.*

- Murphy, Clifford T., Los Angeles, Calif., assignor to Columbia Carburetor Company. Carburetor. No. 1,376,156; Apr. 26; v. 285; p. 670.
- Murphy, Daniel P. (See Inwood, Richard G., assignor.) (Reissue.)
- Murphy, Daniel R., assignor of one-half to R. M. Fry, Uniontown, Pa. Wheel-hub-locking device. No. 1,384,083; July 12; v. 288; p. 220.
- Murphy, Denis L., Hyannis, Mass. Adjustable jar or can opener. No. 1,380,236; May 31; v. 286; p. 989.
- Murphy, Dennis J., Hog Island, Pa. Kerosene-emulsion composition. No. 1,374,755; Apr. 12; v. 285; p. 307.
- Murphy Door Bed Company. (See Dewey, Josiah A., assignor.)
- Murphy, Edward E., Winchester, Mass. Liquid-dispensing apparatus. No. 1,394,758; Oct. 25.
- Murphy, Edward F. (See Murphy, Hugh J. and E. F.)
- Murphy, Edwin J., Schenectady, N. Y., assignor to General Electric Company. Magnetic reversing and speed-varying gear clutch. No. 1,394,932; Oct. 25.
- Murphy Engineering Company. (See Murphy, Peter W., assignor.)
- Murphy, Fred K., A. W. Martin, and L. C. H. Weldman, Indianapolis, Ind. Reclaiming worn car-axles. No. 1,366,922; Feb. 1; v. 283; p. 8.
- Murphy, G. W. J., Company. (See Bourque, David, assignor.)
- Murphy, George J., Baradero, Buenos Aires, Argentina. Rail-joint. No. 1,365,941; Jan. 18; v. 282; p. 451.
- Murphy, George L., Hayden, Colo. Extension swinging stacker. No. 1,395,512; Nov. 1.
- Murphy, Howard M., Philadelphia, Pa. Pipe-cleaner. No. 1,369,903; Mar. 1; v. 284; p. 28.
- Murphy, Hugh J. and E. F., Troy, N. Y. Trolley-mount. No. 1,392,846; Oct. 4.
- Murphy, James, Middletown, Conn. Package-tie. No. 1,369,348; Feb. 22; v. 283; p. 625.
- Murphy, James F., Chicago, Ill. Leaf-spring lubricator. No. 1,365,119; Jan. 11; v. 282; p. 251.
- Murphy, James H. (See Gustafson, A., and Murphy.)
- Murphy, James L., Chicago, Ill. Collar. No. 1,388,660; Aug. 23; v. 289; p. 715.
- Murphy, James L., Chicago, Ill. Collar. No. 1,388,661; Aug. 23; v. 289; p. 715.
- Murphy, James W., Chicago, Ill. Metallic paint composition. No. 1,367,888; Feb. 8; v. 283; p. 255.
- Murphy, John F., Louisville, Ky. Internal-combustion engine. No. 1,377,139; May 3; v. 286; p. 144.
- Murphy, John F., Toledo, Ohio. Freight-car-door lock. No. 1,381,215; June 14; v. 287; p. 223.
- Murphy, John H., New York, N. Y. Storage battery. No. 1,376,566; May 3; v. 286; p. 35.
- Murphy, John M., Shamokin, Pa. Support for elevator-cars. No. 1,392,962; Oct. 11.
- Murphy, John N., Salesville, R. I. Spring for vehicles. No. 1,370,038; Mar. 1; v. 284; p. 54.
- Murphy, John W., Cambridge, Mass. Condensation-preventing device. No. 1,378,604; May 17; v. 286; p. 534.
- Murphy, Lawrence A., St. John, New Brunswick, Canada. Car-coupling. No. 1,382,530; June 21; v. 287; p. 530.
- Murphy, Leonard, Dublin, Ireland. Apparatus for indicating the depth of liquid in vessels. No. 1,368,187; Feb. 8; v. 283; p. 312.
- Murphy, Michael, Youngstown, Ohio. Safety connecting-rod for automatic stokers. No. 1,384,270; July 12; v. 288; p. 259.
- Murphy, Michael F., Buffalo, N. Y. Flexible coupling. No. 1,369,349; Feb. 22; v. 283; p. 625.
- Murphy, P. C., Trunk Company. (See Witbeck, Desford, assignor.)
- Murphy, Patrick J., Dubois, Pa. Steel mine-rail tie. No. 1,389,066; Aug. 30; v. 289; p. 851.
- Murphy, Peter W., assignor to Murphy Engineering Company, Chicago, Ill. Multiple head and valve housing. No. 1,374,315; Apr. 12; v. 285; p. 222.
- Murphy, Peter W., assignor to Murphy Engineering Company, Chicago, Ill. Internal-combustion engine. No. 1,379,775; May 31; v. 286; p. 902.
- Murphy, Peter W., assignor to Murphy Engineering Company, Chicago, Ill. Internal-combustion engine. No. 1,389,967; Sept. 6; v. 290; p. 82.
- Murphy, Peter W., Chicago, Ill., assignor to Murphy Engineering Co., Detroit, Mich. Reversing mechanism. No. 1,379,774; May 31; v. 286; p. 902.
- Murphy, Samuel P., Canastota, N. Y. Adjustable bed-table. No. 1,377,911; May 10; v. 286; p. 350.
- Murphy, Thomas B., Detroit, Mich. Tool-holding attachment for grinding machines. No. 1,400,762; Dec. 20.
- Murphy, Thomas J., Rochester, N. Y., assignor of one-half to J. P. B. Duffy, Rochester, N. Y. Electric motor. No. 1,401,548; Dec. 27.
- Murphy, Walter P. (See Bonsall, Charles D., assignor.)
- Murphy, Walter P. (See Conwell, S. H., and Court, assignors.)
- Murphy, Walter P. (See Conwell, Samuel H., assignor.)
- Murphy, Walter P. (See Court, Clarence W., assignor.)
- Murphy, Walter P. (See Gilpin, Garth G., assignor.)
- Murphy, Walter P. (See Goodwin, George S., assignor.)
- Murphy, Walter P. (See Sisson, Vinton E., assignor.)
- Murphy, Walter P., Chicago, Ill. Combined uncoupling lever and coupling-positioning device. No. 1,365,942; Jan. 18; v. 282; p. 451.
- Murphy, Walter P., Chicago, Ill. Automatic train-pipe-connector support. No. 1,381,584; June 14; v. 287; p. 291.
- Murphy, Walter P., New York, N. Y. Corrugated sheet-metal car end. (Reissue.) No. 15,193; Sept. 13; v. 290; p. 377.
- Murphy, Walter P., New York, N. Y. Hopper-car. No. 1,377,783; May 10; v. 286; p. 325.
- Murphy, Walter P., New York, N. Y. Corrugated-sheet-metal car end. No. 1,398,643; Nov. 29.
- Murphy, Walter P., New York, N. Y. Corrugated-sheet-metal car end. No. 1,398,644; Nov. 29.
- Murphy, Walter P., New York, N. Y. Vertically-reinforced-sheet-metal car end. No. 1,398,645; Nov. 29.
- Murphy, William M., Glenside, Pa. Citrus-juice extractor. No. 1,389,454; Aug. 30; v. 289; p. 928.
- Murphy, William H., Independence, Mo. Loose-leaf binder. No. 1,398,388; Nov. 29.
- Murray, Alexander C., Timaru, New Zealand. Can-top lifter. No. 1,366,272; Jan. 18; v. 282; p. 515.
- Murray, Arthur T. (See Rosenthal, L. W., and Lang, assignors.)
- Murray, Charles, Tuguegarao, Philippine Islands. Comb. No. 1,384,671; July 12; v. 288; p. 344.
- Murray Company, The. (See Henry, Nelson B., assignor.)
- Murray, Daniel. (See Morgan, John, assignor.)
- Murray, Donald, London, England, assignor to The Western Union Telegraph Company. Code-transposing apparatus for telegraph systems. No. 1,394,439; Oct. 18.
- Murray, Donald, London, England, assignor to The Western Union Telegraph Company. Tape-transmitter. No. 1,401,917; Dec. 27.
- Murray, Ed., Lincoln, Nebr. Controlling subterranean streams. No. 1,374,945; Apr. 19; v. 285; p. 406.
- Murray, Frank M., Cadville, N. Y. Wrench. No. 1,383,744; July 5; v. 288; p. 101.
- Murray, George C. (See Cook, Roy J., assignor.)
- Murray, George C., Chicago, Ill. Drawbar-yoke. No. 1,370,702; Mar. 8; v. 284; p. 225.
- Murray, George C., Chicago, Ill. Draft-gear yoke. No. 1,388,878; Aug. 30; v. 289; p. 812.
- Murray, George C., Chicago, Ill. Draft-gear yoke. No. 1,391,203; Sept. 20; v. 290; p. 485.
- Murray, Harry A. (See Thompson, James L., assignor.)
- Murray, Helge O. H. (See Thompson, Millard F., assignor.)
- Murray, Henry L., and A. Guy, Palmerston, assignors to Joseph Nathan and Company, Limited, Wellington, New Zealand. Machine for compressing and packing commodities. No. 1,380,674; June 7; v. 287; p. 66.
- Murray, Herbert E. (See Mayer, G. A., and Murray.)
- Murray, Howard J., Brooklyn, N. Y. Electric-circuit control. No. 1,400,229; Dec. 13.
- Murray, Howard J., Brooklyn, N. Y., and W. S. Rugg, Pittsburgh, Pa. Car-motor mounting. No. 1,386,586; Aug. 2; v. 289; p. 121.
- Murray, Howard J., Brooklyn, N. Y., and W. S. Rugg, Pittsburgh, Pa. Motor-casing-truck construction. No. 1,386,587; Aug. 2; v. 289; p. 121.
- Murray, Howard J., Brooklyn, N. Y., and W. S. Rugg, Pittsburgh, Pa. Single-motor bolster. No. 1,386,588; Aug. 2; v. 289; p. 122.
- Murray, Howard J., Brooklyn, N. Y., and W. S. Rugg, Pittsburgh, Pa. Resiliently-mounted transmission. No. 1,386,589; Aug. 2; v. 289; p. 122.
- Murray, Howard J., Brooklyn, N. Y., and W. S. Rugg, Pittsburgh, Pa. Yieldable gearing. No. 1,390,538; Sept. 13; v. 290; p. 288.
- Murray, John, London, England. Automatic stack-feed. No. 1,395,862; Nov. 1.
- Murray, John, London, England. Typographical printing-plate. No. 1,396,653; Nov. 8.
- Murray, John A., Weiser, Idaho. Comb-cleaner. No. 1,371,047; Mar. 8; v. 284; p. 290.
- Murray, John A. and R. S. Buchanan, Patton, Pa. Trolley-wheel guard. No. 1,376,722; May 3; v. 286; p. 64.
- Murray, John O., Wenatchee, Wash. Shoe-polishing device. No. 1,394,636; Oct. 25.
- Murray, Joseph B. (See Murray, Thomas E., Jr., and J. B.)
- Murray, Joseph F., Herrin, Ill. Drill. No. 1,401,353; Dec. 27.
- Murray, Joseph J., West Albany, N. Y. Train-control mechanism. No. 1,369,698; Feb. 22; v. 283; p. 693.
- Murray, Ray M., Billings, Mont. Reversible fan. No. 1,384,672; July 12; v. 288; p. 344.
- Murray, Richard, New York, N. Y. Building block or slab. No. 1,399,023; Dec. 6.
- Murray, Thomas B., Scotstown, Scotland. Cylinder of combustion-engines. No. 1,393,636; Oct. 11.
- Murray, Thomas E., Brooklyn, N. Y. Circulation-tube for water-tube steam-boilers. No. 1,382,220; June 21; v. 287; p. 470.
- Murray, Thomas E., Brooklyn, N. Y. Making reinforced molded conduits. No. 1,387,065; Aug. 9; v. 289; p. 291.
- Murray, Thomas E., Brooklyn, N. Y. Means for withdrawing a lining of flexible material from the bore of a conduit. No. 1,387,066; Aug. 9; v. 289; p. 292.
- Murray, Thomas E., Brooklyn, N. Y. Making a molded conduit. No. 1,387,067; Aug. 9; v. 289; p. 292.
- Murray, Thomas E., Brooklyn, N. Y. Steam or hot-water radiator. No. 1,397,325; Nov. 15.



*Alphabetical list of patentees—Continued.*

- Murray, Thomas E., Brooklyn, N. Y. Producing conduits, &c. No. 1,399,308; Dec. 6.
- Murray, Thomas E., Brooklyn, N. Y. Method of and means for cooling electrical conductors when inclosed in conduits of concrete or the like. No. 1,399,309; Dec. 6.
- Murray, Thomas E., Jr., Brooklyn, N. Y. Apparatus for electrically welding plates. No. 1,370,987; Mar. 8; v. 284; p. 279.
- Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Producing a plurality of objects of sheet metal. No. 1,368,045; Feb. 8; v. 283; p. 284.
- Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Housing for transmission-gears and axles of automobiles. No. 1,384,480; July 12; v. 288; p. 302.
- Murray, Thomas E., Jr., and J. B., Brooklyn, N. Y. Electrode for electrical welding-machines. No. 1,399,307; Dec. 6.
- Murray, Walter Z., Richmond, Va. Roll-holder. No. 1,398,646; Nov. 20.
- Murray, William B., Danville, Ill., assignor to The Miller Train Control Corporation, Staunton, Va. Train-controlling system. No. 1,380,578; June 7; v. 287; p. 48.
- Murray, William B., Danville, Ill., assignor of one-half to C. D. Townsend, Ironton, Ohio. Ladle. No. 1,390,212; Sept. 6; v. 290; p. 131.
- Murray, William B., Danville, Ill., assignor to The Miller Train Control Corporation, Staunton, Va. Railway control system. No. 1,396,870; Nov. 15.
- Murray, William D., Norfolk, Va. Oil-burner. No. 1,383,329; July 5; v. 288; p. 14.
- Murray, William F., Minneapolis, Minn. Device for preventing wrecking cross-wires of trolley systems. No. 1,388,287; Aug. 23; v. 289; p. 642.
- Muscente, Fausto A., Providence, R. I. Lingerie-clasp. No. 1,381,216; June 14; v. 287; p. 223.
- Muschewski, B., and W. W. Wood, Los Angeles, Calif. Reclaiming rubber. No. 1,381,654; June 14; v. 287; p. 304.
- Muscott, Ray H., Swan Creek, Mich. Tread-belt attachment for trucks. No. 1,397,139; Nov. 15.
- Muscovitz, Lewis, Chicago, Ill. Garment-collars. No. 1,367,493; Feb. 1; v. 283; p. 122.
- Muse, John B., Cameron, N. C. Air-heating device for supplying heated air to buildings for curing tobacco. No. 1,372,034; Mar. 22; v. 284; p. 601.
- Musgrave, William Z., Atlanta, Ga. Changeable exhibitor. No. 1,374,756; Apr. 12; v. 285; p. 307.
- Musher & Company. (See Rector, Thomas M., assignor.)
- Muskin, Hyman, Baltimore, Md. Shoe. No. 1,389,455; Aug. 30; v. 289; p. 928.
- Muskin, Julian N., Philadelphia, and R. B. Crump, West Philadelphia, Pa. Bath-tub. No. 1,364,785; Jan. 4; v. 282; p. 142.
- Muspratt, Frederic J., township of Woombye, Queensland, Australia. Instrument for supplying comminuted gold by air-pressure. No. 1,398,527; Nov. 29.
- Muspratt, Walter G., San Francisco, Calif. Hair-cutter. No. 1,382,377; June 21; v. 287; p. 500.
- Mussehl, Frank E., Lincoln, Nebr. Daylight egg-candler. No. 1,373,969; Apr. 5; v. 285; p. 116.
- Musselman, Alvin J., Chicago, Ill. Golf-ball structure and making same. No. 1,364,576; Jan. 4; v. 282; p. 102.
- Musselman, Frank W., Kansas City, Mo. Combined crib and wardrobe. No. 1,391,566; Sept. 20; v. 290; p. 559.
- Musselman, Layton M., Jersey City, N. J. Horseshoe. No. 1,388,477; Aug. 23; v. 289; p. 680.
- Musser, Samuel G., Los Angeles, Calif. Obtaining metal from ore. No. 1,365,844; Jan. 18; v. 282; p. 431.
- Musswitz, Paul H., Vallejo, Calif. Rotary pump. No. 1,378,891; May 24; v. 286; p. 662.
- Muth, George F., assignor to Newton Machine Tool Works, Incorporated, Philadelphia, Pa. Tool-head for slotting-machines. No. 1,401,718; Dec. 27.
- Muth, James A., Milwaukee, Wis. Apparatus for making building-blocks. No. 1,385,186; July 19; v. 288; p. 530.
- Muth, John, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Staple-driving machine. No. 1,397,176; Nov. 15.
- Muth, John, assignor to The E. H. Hotchkiss Company, Norwalk, Conn. Staple-remover. No. 1,397,177; Nov. 15.
- Muth, John H., East Cleveland, assignor of one-half to The Elwell Parker Electric Company, Cleveland, Ohio. Threading-tap. No. 1,365,338; Jan. 11; v. 282; p. 293.
- Muther, Lorenz. (See Lautenschlager, William F., assignor.)
- Muther, Lorenz. (See Wales, Alfred B., assignor.)
- Muths, Howard A., Mobile, Ala. Leather-preserver. No. 1,398,600; Nov. 29.
- Muzzy, William H., Dayton, Ohio. Automobile-speed-control apparatus. No. 1,368,282; Feb. 15; v. 283; p. 379.
- Muzzy, William H., Chicago, Ill. Fuel-feeding system for automobiles. No. 1,385,337; July 19; v. 288; p. 559.
- Muzzy, William H., Chicago, Ill. Fuel-feeding system. No. 1,391,204; Sept. 20; v. 290; p. 485.
- Muzzy, William H., Chicago, Ill. Fuel-feeding device for automobiles. No. 1,392,652; Oct. 4.
- Myatt, Francis L. (See Albright, A. I., and Myatt.)
- Myatt, John W., assignor to Ledgers Limited, Tipton, England. Loose-leaf book or binder. No. 1,368,188; Feb. 8; v. 283; p. 312.
- Myatt, Samuel L., St. Louis, Mo. Footrest for automobiles. No. 1,389,209; Aug. 30; v. 289; p. 879.
- Myers, Albert C., Niles, Calif. Loading apparatus. No. 1,365,120; Jan. 11; v. 282; p. 251.
- Myers, Bert L., Jackson, Mich. Stock-feeding-tank heater. No. 1,375,533; Apr. 19; v. 285; p. 519.
- Myers, Charles E., assignor, by mesne assignments, to Acme Lock Stitch Sewing Machine Company, St. Louis, Mo. Stitching-machine. No. 1,375,411; Apr. 19; v. 285; p. 496.
- Myers, Charles S. (See Hines, E. G., and Myers.)
- Myers, Charles W., Franklin, Pa. Tractor. No. 1,378,892; May 24; v. 286; p. 662.
- Myer, Claus D., West Hoboken, N. J. Emergency-valve. No. 1,394,332; Oct. 18.
- Myers, Cornelius T., Detroit, Mich. Fender. No. 1,372,081; Mar. 22; v. 284; p. 610.
- Myers, Cornelius T., Avenel, N. J. Vehicle-bracket lubricator. No. 1,387,295; Aug. 9; v. 289; p. 336.
- Myers, D. D., et al. (See Kelley, Benjamin F., assignor.)
- Myers, David, Neopit, Wis. Saw-swage. No. 1,370,547; Mar. 8; v. 284; p. 195.
- Myers, Edgar W., Los Angeles, Calif., assignor to Filmusic Company. Machine for making music-rolls. No. 1,366,017; Jan. 18; v. 282; p. 465.
- Myers, Edward C., Seattle, Wash. Tractor. No. 1,399,570; Dec. 6.
- Myers, Elmer E. (See Bloxson, J. J., and Myers.)
- Myers, Eugene V., East Orange, N. J. Automobile-brake. No. 1,372,769; Mar. 29; v. 284; p. 783.
- Myers, Eugene V., East Orange, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Tire-valve or the like. No. 1,367,826; Feb. 8; v. 283; p. 244.
- Myers, Eugene V., East Orange, N. J., assignor to A. Schroeder's Son, Incorporated, Brooklyn, N. Y. Double pump-coupling. No. 1,383,008; June 28; v. 287; p. 675.
- Myers, Eugene V., East Orange, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Dust-cap. No. 1,399,310; Dec. 6.
- Myers, Eugene V., East Orange, N. J., assignor to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Dust-cap. No. 1,399,311; Dec. 6.
- Myers, F. E., and Brother. (See Myers, Philip A., assignor.)
- Myers, Frank L. (See Anspach, F. M., and Myers.)
- Myers, Frank L. (See Johns, R. A., and Myers.)
- Myers, George M., Jr., Charleston, S. C. Thread and implement holder. No. 1,401,811; Dec. 27.
- Myers, Harry H., Bessemer, Ala. Gas-cock and faucet protector. No. 1,380,675; July 7; v. 287; p. 67.
- Myers, Harvey, Poughkeepsie, N. Y. Spring-wheel. No. 1,384,847; July 19; v. 288; p. 460.
- Myers, Henry. (See Durgan, G., and Myers.)
- Myers, Henry M., State College, Pa. Anti-skid device for wheel-tires. No. 1,370,758; Mar. 8; v. 284; p. 236.
- Myers, Hiram, Sterling, Ill. Hoisting device. No. 1,388,288; Aug. 23; v. 289; p. 642.
- Myers, Hubert A., assignor to Toledo Scale Company, Toledo, Ohio. Ticket-issuing mechanism. No. 1,385,388; July 26; v. 288; p. 646.
- Myers, Jacob S., assignor to W. M. Baechtel and J. K. Hoffman, Hagerstown, Md. Wagon-hayrack carriage. (Re-issue.) No. 15,158; July 19; v. 288; p. 563.
- Myers, Jacob S., assignor to W. M. Baechtel and J. K. Hoffman, Hagerstown, Md. Wagon-hayrack carriage. No. 1,397,446; Nov. 15.
- Myers, John, Sterling, Ill. Silo-scaffold. No. 1,380,074; May 31; v. 286; p. 959.
- Myers, John E. (See Barrett, C. D., Myers, and King.)
- Myers, John G., Braddock borough, assignor to L. Myers, Braddock, Pa. Automatic grab catch and release device. No. 1,368,647; Feb. 15; v. 283; p. 450.
- Myers, John G., Braddock borough, assignor to L. Myers, Braddock, Pa. Paddle-wheel construction for vessels. No. 1,371,257; Mar. 15; v. 284; p. 394.
- Myers, John R., Buffalo, N. Y. Combined incubator and brooder. No. 1,384,084; July 12; v. 288; p. 220.
- Myers, Laura M., Chicago, Ill. Shine or gloss remover and nap-producer. No. 1,401,719; Dec. 27.
- Myers, Lawrence A., Visalia, Calif. Centrifugal pump. No. 1,382,665; June 28; v. 287; p. 610.
- Myers, Lena. (See Myers, John G., assignor.)
- Myers, Marshall R., Afton, Iowa. Transmitter. No. 1,366,410; Jan. 25; v. 282; p. 585.
- Myers, Milton C., Seattle, Wash. Clothesline-support. No. 1,365,264; Jan. 11; v. 282; p. 279.
- Myers, Parke G., Cairo, assignor to The Automatic Signal & Sign Company, Canton, Ohio. Danger-signal. No. 1,386,893; Aug. 9; v. 289; p. 257.
- Myers, Perry J., Coffeyville, Kans. Sectional-door construction. No. 1,366,823; Jan. 25; v. 282; p. 668.
- Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Power-head. No. 1,367,075; Feb. 1; v. 283; p. 38.
- Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Power-driven pump. No. 1,368,449; Feb. 15; v. 283; p. 411.
- Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Power-head. No. 1,385,141; July 19; v. 288; p. 521.



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- Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Power-head. No. 1,385,142; July 19; v. 288; p. 522.
- Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Pumping apparatus. No. 1,385,143; July 19; v. 288; p. 522.
- Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Self-oiling power-pump. No. 1,385,144; July 19; v. 288; p. 522.
- Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Power-head. No. 1,385,145; July 19; v. 288; p. 522.
- Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Power-head. No. 1,385,146; July 19; v. 288; p. 523.
- Myers, Philip A., assignor to F. E. Myers & Brother, Ashland, Ohio. Power-head. No. 1,393,306; Oct. 11.
- Myers, Preston, Detroit, Mich. Vehicle-signal. No. 1,364,130; Jan. 4; v. 282; p. 16.
- Myers, Ray, *et al.* (See Curtis, O. D., assignor.)
- Myers, Romaine W., Oakland, Calif. Dynamo-electric machine. No. 1,396,521; Nov. 8.
- Myers, Roy R., Chicago, Ill. Door hook or fastener. No. 1,369,699; Feb. 22; v. 283; p. 693.
- Myers, Walter A., Burlington, Vt. Display-card. No. 1,385,923; July 26; v. 288; p. 755.
- Myers, William H., assignor to Union Stove Works, New York, N. Y. Composite stove. No. 1,383,965; July 5; v. 288; p. 146.
- Myers, William M., St. Joseph, Mo. Monkey-wrench. No. 1,364,577; Jan. 4; v. 282; p. 102.
- Myers, William M., St. Joseph, Mo. Pressure-indicator for pneumatic tires. No. 1,370,988; Mar. 8; v. 284; p. 280.
- Myhrum, Thomas, Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y. Soldering-machine. No. 1,389,894; Sept. 6; v. 290; p. 68.
- Myrmo, Ole, Hobart, Wash. Choker-hook. No. 1,386,894; Aug. 9; v. 289; p. 257.
- N. C. L. Engineering Corporation. (See Noble, Warren, assignor.)
- N. V. Hollandsch Patent Exploïtatie Maatschappij. (See Schmidt, Reinhold, assignor.)
- N. V. Lyn-Protectie, Maatschappij tot Exploïtatie Van Electro-technische en Andere Octrooien. (See Hochstadter, Martin, assignor.)
- Naamlooze Vennootschap Glasfabriek Leerdam. (See Peeters, Alexander F., assignor.)
- Naamlooze Vennootschap Industriële Maatschappij v. h. Noury en van des Lande. (See Sutherland, Egbert C., assignor.)
- Naamlooze Vennootschap Handel-Maatschappij "Planeet." (See Kammann, Gerhardt S. R., assignor.)
- Naamlooze Vennootschap Nederlandsche Veenverwerking Maatschappij. (See Ten Bosch, Abraham, assignor.)
- Naamlooze Vennootschap Wilton's Maschinefabrieken Scheepswerf. (See Van Affaire, Pieter, assignor.)
- Nabers, Horace Z., Hickory Grove, S. C. Suspending device for garments. No. 1,365,056; Jan. 11; v. 282; p. 238.
- Nachand, Clyde V., and E. M. Rahm, Jeffersonville, Ind. Demountable rim. No. 1,384,774; July 19; v. 288; p. 445.
- Nacimiento, Romeo, San Francisco, Calif. Making leaven. No. 1,380,828; June 7; v. 287; p. 97.
- Nacker, Owen M. (See Brush, A. P., and Nacker.)
- Nadal y Feliç, Mercedes, Barcelona, Spain. Attachment of springs to the axles of vehicles. No. 1,370,901; Mar. 8; v. 284; p. 263.
- Nadal, Jose M., Humacao, Porto Rico. Wall construction. No. 1,391,567; Sept. 20; v. 290; p. 559.
- Nadeau, Joseph. (See Buckley, J. A., and Nadeau.)
- Nadeau, Joseph, Port Alberni, British Columbia, Canada. Spar-tree cap. No. 1,389,968; Sept. 6; v. 290; p. 82.
- Nadel, Louis D. (See Catucci, P., and Nadel.)
- Nadel, Louis D., Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Tone-arm. No. 1,394,509; Oct. 18.
- Nadig, Lawrence F., Quakertown, Pa. Vehicle-lift. No. 1,376,157; Apr. 26; v. 285; p. 670.
- Naemura, Tokuji, Sanchoe, Kobe, Japan. Matting. No. 1,379,278; May 24; v. 286; p. 735.
- Naeser, Lindsay C. (See Lester, W. G., Naeser, and Pullock.)
- Nagai, Genji, Tokyo, Japan. Knockdown packing-box. No. 1,388,366; Aug. 23; v. 289; p. 658.
- Nagai, Nagayoshi, Tokyo-fu, Japan, assignor to M. Dick Bunnell, San Francisco, Calif. Synthetic anesthetic and making same. No. 1,399,312; Dec. 6.
- Nagai, Wilhelm N., Tokyo, Japan, assignor to M. D. Bunnell, San Francisco, Calif. Synthetically-compounded drug product and producing the same. No. 1,399,144; Dec. 6.
- Nagayama, Tsunetaro, Hilo, Hawaii. Rat-trap. No. 1,397,384; Nov. 15.
- Nagel, Harry C., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Resistance device. No. 1,378,126; May 17; v. 286; p. 443.
- Nagel, Harry C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Expanded-metal resistor and making the same. No. 1,396,871; Nov. 15.
- Nagel, Henry, Davenport, Iowa. Portable electric vaporizer. No. 1,378,266; May 17; v. 286; p. 470.
- Nagel, Joseph D., Jr., New York, N. Y. Marking-tag. No. 1,383,417; July 5; v. 288; p. 33.
- Nagel, Thies, Hamburg, Germany. Tow-hook for steam-tugs. No. 1,381,484; June 14; v. 287; p. 272.
- Nägelin, Ernst, Basel, Switzerland. Apparatus for the treatment of textile goods in hank form by means of circulating liquids. No. 1,367,494; Feb. 1; v. 283; p. 122.
- Nagy, Charles K., Gainesville, N. Y. Power transmission. No. 1,390,920; Sept. 13; v. 290; p. 366.
- Nagy, Charles K., Holcomb, N. Y. Bicycle-sleigh attachment. No. 1,399,643; Dec. 6.
- Nagy, John, West View, assignor to Pittsburgh Stamp Company, Pittsburgh, Pa. Stamping-machine. No. 1,394,333; Oct. 18.
- Nagy, Louis, Esterhazy, Saskatchewan, Canada. Piston-ring. No. 1,390,577; Sept. 13; v. 290; p. 296.
- Nahabed, Carl. (See O'Connor, D. J., Nelson, and Nahabed.)
- Nahrung, Philip E., St. Joseph, Mo. Sectional nut. No. 1,366,884; Jan. 25; v. 282; p. 680.
- Naigwai Kagaku Seihin Kabushiki Kwaiha. (See Yoshizawa, Taichiro, assignor.)
- Nail, Joseph E., and T. P. Henry, Eden, Tex. Plow. No. 1,394,510; Oct. 18.
- Naiuka, Anthony, Janesville, Wis. Nut-lock. No. 1,367,985; Feb. 8; v. 283; p. 273.
- Naintean, John B., North Smithfield, R. I. Spindle. No. 1,401,485; Dec. 27.
- Nakagawa, Shoichi, San Jose, Calif. Storm and sun shield. No. 1,380,829; June 7; v. 287; p. 97.
- Nakaizumi, Chihiro, Tokyo, Japan. Rolling stamp. No. 1,374,090; Apr. 5; v. 285; p. 138.
- Nakamura, Goken. (See Araki, Kichijiro, assignor.)
- Nakamura, Kakichi. (See Butcher, James M., assignor.)
- Nakamura, Mitsutaro, San Francisco, Calif. Egg-beater. No. 1,368,180; Feb. 8; v. 283; p. 310.
- Nakayama, Mizuhiko, Toyotamagun Tokyo-fu, and Keijiro Adachi, Shitaya-Ku, Tokyo, Japan. Utilization of waste or scraps of leather. No. 1,400,899; Dec. 20.
- Nakoney, John A., Marysville, Mich. Book-holder. No. 1,392,200; Sept. 27; v. 290; p. 760.
- Nall, Edith A., executrix. (See Harsel, W. D., and Nall.)
- Nall, Edith A., executrix. (See Nall, Edward.)
- Nall, Edward. (See Harsel, W. B., and Nall.)
- Nall, Edward, deceased, by E. A. Nall, executrix, assignor to The Goodyear Tire and Rubber Co., Akron, Ohio. Machine for the manufacture of asbestos gaskets. No. 1,374,463; Apr. 12; v. 285; p. 251.
- Nall, Frederic W., Cincinnati, Ohio. Roller-skates. No. 1,374,464; Apr. 12; v. 285; p. 251.
- Nall, Jabez. (See Mehl, C. F., Liebler, Nall, and Nobbe.)
- Nami, Joseph P., Cristobal, Canal Zone, Panama. Stirrup. No. 1,378,713; May 17; v. 286; p. 555.
- Napier-Bliss Company, The. (See Rettenmeyer, Frederick W., assignor.)
- Napier, Charles H., Macon, Ga. Catapult. No. 1,374,757; Apr. 12; v. 285; p. 307.
- Napier, Charles H., Macon, Ga. Motor-drive for target-throwing machines. No. 1,376,825; May 3; v. 286; p. 84.
- Napier, D., & Son Limited. (See Rowledge, Arthur J., assignor.)
- Napier, Melvin J., Akron, Ohio. Ozonizer. No. 1,379,776; May 31; v. 286; p. 902.
- Narum, Otto, Staunton, Va. Eyeglasses. No. 1,394,109; Oct. 18.
- Nash, Alexander Q., St. Louis, Mo. Spark-gap device. No. 1,382,113; June 21; v. 287; p. 450.
- Nash, Frank, Columbus, Ohio. Toy. No. 1,365,533; Jan. 11; v. 282; p. 331.
- Nash, Palmer, Colfax, N. D. Driving mechanism for speedometers. No. 1,375,009; Apr. 19; v. 285; p. 418.
- Nash, Robert M., Oklahoma, Okla. Page for bookkeeping. No. 1,368,046; Feb. 8; v. 283; p. 284.
- Nash, William, Denver, Colo. Tractor. No. 1,391,689; Sept. 27; v. 290; p. 657.
- Nashlund, Axel, Marquette, Mich. Factory air-clarifier and fume-collector. No. 1,371,205; Mar. 8; v. 284; p. 320.
- Nashua Gummed & Coated Paper Company. (See Decker, J., and Van Shuys, assignors.)
- Nashua Gummed and Coated Paper Company. (See Van Shuys, Adolph C., assignor.)
- Naslin, John O., Seattle, Wash. Door-checking device. No. 1,399,145; Dec. 6.
- Nasmith, John W., Manchester, England. Combing-machine. No. 1,367,076; Feb. 1; v. 283; p. 38.
- Nasmith, John W., Manchester, England. Combing-machine. No. 1,369,532; Feb. 22; v. 283; p. 660.
- Nasmith, John W., Manchester, England. Wire-stitching machine. No. 1,371,388; Mar. 15; v. 284; p. 420.
- Nasmith, John W., Stockport, England. Combing-machine. No. 1,401,179; Dec. 27.
- Nassano, Americo, San Francisco, Calif. Sealing envelops. No. 1,387,164; Aug. 9; v. 289; p. 310.
- Nassour, Adbo. (See Mouawad, John J., assignor.)
- Nast, Charles F., Anacortes, Wash. Wrench. No. 1,389,685; Sept. 6; v. 290; p. 25.



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- Natale, Victor, New York. N. Y. Ice-crusher. No. 1,370,345; Mar. 1; v. 284; p. 112.
- Naterman, Henry D., Los Angeles, assignor of one-half to Frank W. Winship, Riverside, Calif. (Combination rule and blotter-holder. No. 1,383,140; June 28; v. 287; p. 700.)
- Nathan, Joseph, and Company. (See Murray, H. L., and Guy, assignors.)
- Nathan, Sylvester M., Fitchburg, Mass. Clip for pens, pencils, and similar instruments. No. 1,374,515; Apr. 12; v. 285; p. 261.
- Nation, Don O., assignor of one-half to W. E. Nation, Los Angeles, Calif. Tire-spreading tool. No. 1,373,348; Mar. 29; v. 284; p. 900.
- Nation, Don O., assignor of one-half to W. E. Nation, Los Angeles, Calif. Tire-spreading tool. No. 1,400,453; Dec. 13.
- Nation, William E. (See Nation, Don O., assignor.)
- National Acme Company, The. (See Drowns, Edmond E., assignor.)
- National Acme Company, The. (See Smith, Oscar A., assignor.)
- National Aniline & Chemical Co. (See Derick, C. G., Ralph, and Flett, assignors.)
- National Aniline & Chemical Co. (See Field, C., and Newell, assignors.)
- National Aniline & Chemical Co. (See Ralph, Walter M., assignor.)
- National Aniline & Chemical Co. (See Ralph, Walter M., assignor.) (Reissue.)
- National Aniline & Chemical Company. (See Chebotaref, Leo F., assignor.)
- National Aniline & Chemical Company. (See Daniels, Lloyd C., assignor.)
- National Aniline & Chemical Company. (See Flowers, Alan E., assignor.)
- National Aniline & Chemical Company. (See Leaming, Thomas H., assignor.)
- National Aniline & Chemical Company. (See Susemihl, Theresa M., assignor.)
- National Automatic Tool Co., The. (See Ziegler, W. M., and Sudhoff, assignors.)
- National Automatic Tool Company, The. (See Ziegler, William M., assignor.)
- National Bearings Company. (See Keiper, Henry B., assignor.)
- National Binding Machine Company. (See Anable, Frederick S., assignor.)
- National Binding Machine Company. (See Flora, Ellsworth E., assignor.)
- National Binding Machine Company. (See Kimball, W. D., and Mortimer, assignors.)
- National Binding Machine Company. (See Mortimer, Charles G., assignor.)
- National Binding Machine Company. (See Rideout, Arthur E., assignor.)
- National Biscuit Company. (See Beers, F., and Powell, assignors.)
- National Biscuit Company. (See Bergen, Martin H., assignor.)
- National Biscuit Company. (See Bush, F. P., Serr, and Powell, assignors.)
- National Biscuit Company. (See Davidson, Frank B., assignor.)
- National Biscuit Company. (See Ferrall, John J., assignor.)
- National Biscuit Company. (See Ferrall, J. J., Sundheim, and Trelawny, assignors.)
- National Biscuit Company. (See Oakes, Earle T., assignor.)
- National Biscuit Company. (See Powell, Howard L., assignor.)
- National Blank Book Company. (See Schade, John.)
- National Brake & Electric Company. (See Aikman, Burton S., assignor.)
- National Brass Company. (See Blye, Harold, assignor.)
- National Can Company. (See Horvath, Geza, assignor.)
- National Car Coupler Co. (See Eckhart, Marvin L., assignor.)
- National Carbon Company. (See Alschuler, Ernest, assignor.)
- National Carbon Company. (See Benner, R. C., and French, assignors.)
- National Carbon Company. (See Benner, Raymond C., assignor.)
- National Carbon Company. (See Bronie, William, assignor.)
- National Carbon Company. (See Brooks, William C., assignor.)
- National Carbon Company. (See Casella, Secondo L., assignor.)
- National Carbon Company. (See Ellis, C., and Wells, assignors.)
- National Carbon Company. (See French, H. F., and Benner, assignors.)
- National Carbon Company. (See Gillette, John C., assignor.)
- National Carbon Company. (See Graff, David L., assignor.)
- National Carbon Company. (See Hacfele, Albert H., assignor.)
- National Carbon Company. (See Hambuechen, Carl, assignor.)
- National Carbon Company. (See Hazelett, C. W., and Holt, assignors.)
- National Carbon Company. (See Hazelett, Clarence W., assignor.)
- National Carbon Company. (See Hills, Leon B., assignor.)
- National Carbon Company. (See Jones, Homer W., assignor.)
- National Carbon Company. (See Lang, Henry T., assignor.)
- National Carbon Company. (See Nungesser, Philip P., assignor.)
- National Carbon Company. (See Spencer, Thomas, assignor.)
- National Carbon Company. (See Voorhees, Lee J., assignor.)
- National Carbon Company. (See Vreeland, George V. C., assignor.)
- National Carbon Company. (See Williams, Charles F. and I. C., assignors.)
- National Carbon Company. (See Williams, L. E., Sr. and Adamski, assignors.)
- National Card Mounting Company. (See List, Francis X., assignor.)
- National Carton Company. (See Low, John W., assignor.)
- National Cash Register Company, The. (See Carroll, T., and Lockyer, assignors.)
- National Cash Register Company, The. (See Dorsey, H. G., and Kirshner, assignors.)
- National Cash Register Company, The. (See Fuller, Frederick L., assignor.)
- National Cash Register Company, The. (See Kirshner, Arthur C., assignor.)
- National Cash Register Company, The. (See Lee, Charles L., assignor.)
- National Cash Register Company, The. (See Martin, Haakon A., assignor.)
- National Cash Register Company, The. (See Shipley, Bermis M., assignor.)
- National Cash Register, The. (See Skerl, Francesco, assignor.)
- National Cash Register Company, The. (See Von Pein, Edward J., assignor.)
- National City Bank. (See Neilson, Anthony R., assignor.)
- National Clasp Co. (See Planchenault, Alexander G., assignor.) (Reissue.)
- National Company. (See Balcke, W. H., and Ready, assignors.)
- National Dairy Machine Company. (See Hastings, Charles E., assignor.)
- National Dairy Machine Company. (See Stettler, Gottfried, assignor.)
- National Dump Car Company. (See Hart, Harry S., assignor.)
- National Dump Car Company. (See Hindahl, David, assignor.)
- National Dump Car Company. (See Hoscoit, William J., assignor.)
- National Electric Products. (See MacDougall, Archibald J., assignor.)
- National Electrical Supply Company. (See Fearn, Richard L., Jr., assignor.)
- National Electro Products Limited. (See MacDougall, Archibald J., assignor.)
- National Equipment Company. (See Bausman, George A., assignor.)
- National Farm Equipment Company. (See Whitney, Leon F., assignor.)
- National Ferrite Company. (See Penniman, R. S., Jr., and Zoph, assignors.)
- National Folding Box Company. (See Devlin, Francis D., assignor.)
- National Formetal Company, The. (See Morrow, Clarence H., assignor.)
- National Foundry Company. (See Willis, Andrew H., assignor.)
- National Gauge and Equipment Company. (See Kelly, Oliver S., assignor.)
- National India Rubber Company. (See Huestis, Thomas B., assignor.)
- National India Rubber Company. (See McLaughlin, William P., assignor.)
- National Lead Company. (See Moses, Asheleigh S., assignor.)
- National Lead Company. (See Newnam, William E., assignor.)
- National Lead Company. (See Youtsey, F. S., Walker, and Moses, assignors.)
- National Life Preserver Company. (See Youngren, O. A., and Watt, assignors.)
- National Lock-In-Tank Company. (See Klopfenstein, Robert S., assignor.)
- National Lock Washer Company, The. (See Loutrel, Cyrus H., assignor.)
- National Machine Company. (See Weatherly, S. M., and Stach, assignors.)
- National Machinery Co., The. (See Clouse, William L., assignor.)



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- National Malleable Castings Company, The. (See Bazeley, Arthur J., assignor.)  
 National Malleable Castings Company, The. (See Dexter, Allen T., assignor.)  
 National Malleable Castings Company, The. (See Fawcett, Leroy, assignor.)  
 National Malleable Castings Company, The. (See Knadler, Frederick, assignor.)  
 National Malleable Castings Company. (See Schmidt, Ernest H., assignor.)  
 National Manufacturing Company. (See Baumgartner, Charles B., assignor.)  
 National Manufacturing Company, The. (See Canion, William G., assignor.)  
 National Mayonnaise Machine Company. (See Drucker, William J., assignor.)  
 National Metal Molding Company. (See Clayton, Martin M., assignor.)  
 National Motor Car & Vehicle Corporation. (See Wall, William G., assignor.)  
 National Motor Control Co. (See Barnes, Orange P., assignor.)  
 National Needle Company. (See Christopher, Calvin F., assignor.)  
 National Paper Can Company. (See Hulbert, Edwin F., assignor.)  
 National Paper Can Corporation. (See Penn, George R., assignor.)  
 National Piano Manufacturing Company. (See Green, Clifford H., assignor.)  
 National Pneumatic Company. (See Casey, Thomas W., assignor.)  
 National Radio Company. (See Golden, Alphonsus L., assignor.)  
 National Refining Corporation. (See Von Groeling, Albrecht F. G. C. P. J., assignor.)  
 National Refrigerators Company. (See Wirfs, Edward J., assignor.)  
 National Regulator Company. (See Larson, John M., assignor.)  
 National Safety Appliance Company. (See Wiet, E., and Chittenden, assignors.)  
 National Sanitary Service Company, The. (See Sellers, James H., assignor.)  
 National Sanitary Street System. (See Richardson, George J., assignor.)  
 National Screw and Tack Company, The. (See Barber, L., and Filson, assignors.)  
 National Seal Company. (See Rivers, Benjamin W., assignor.)  
 National Shock Loader Co. (See Gilliland, Orra L., assignor.)  
 National-Standard Company. (See Johnson, Alfred H., assignor.)  
 National Steel Fabric Company. (See Benedict, Edward L., assignor.)  
 National Supply Company, The. (See Wright, Clyde S., assignor.)  
 National System of Bakeries Co., The. (See Bradley, James K., assignor.)  
 National Tube Company. (See Borie, Frank J., assignor.)  
 National Tube Company. (See Boyd, P., and Saunders, assignors.)  
 National Tube Company. (See Johnston, Harry M., assignor.)  
 National Tube Company. (See Johnston, William H., assignor.)  
 National Tube Company. (See Rosenkranz, Max, assignor.)  
 National Tube Company. (See Upp, Edwin L., assignor.)  
 National Urn Bag Co. (See Hirschhorn, Benjamin, assignor.)  
 National X-Ray Reflector Co. (See McKinnie, Earle C., assignor.)  
 Natkiel, Harry, assignor to The Marcelette Hair Curler Co., Inc., New York, N. Y. Hair-waver. No. 1,396,708; Nov. 8.  
 Naugle, Harry M., Canton, Ohio. Metal-lath-attaching clip. No. 1,368,742; Feb. 15; v. 283; p. 469.  
 Naugle, Harry M., assignor to The Alloy Parts Manufacturing Company, Canton, Ohio. Lubricating-bolt. No. 1,384,271; July 12; v. 288; p. 259.  
 Naugle, Harry M., assignor to The Alloy Parts Manufacturing Company, Canton, Ohio. Lubricating spring-bolt. No. 1,389,374; Aug. 30; v. 289; p. 912.  
 Naugle, Harry M., assignor to The Alloy Parts Manufacturing Company, Canton, Ohio. Lubricating-bolt. No. 1,389,375; Aug. 30; v. 289; p. 912.  
 Naugle, John J., Brooklyn, N. Y. Combination filter-press and drier. No. 1,377,022; May 3; v. 286; p. 122.  
 Naujoks, Rudolph, Los Angeles, Calif. Radiator. No. 1,399,146; Dec. 6.  
 Naul, James M., Pittsfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Electric switch. No. 1,383,330; July 5; v. 288; p. 15.  
 Navarro, Julio S., Habana, Cuba. Trolley-wheel for electric street-cars. No. 1,388,590; Aug. 23; v. 289; p. 701.  
 Navarro, Julio S., Habana, Cuba. Trolley-wheel for electric street-cars. No. 1,391,903; Sept. 27; v. 290; p. 700.  
 Navy Gear Manufacturing Corporation, The. (See Petrelli, Joseph V., assignor.)  
 Nawacka, Juzefa, administratrix. (See Dybowski, Stanley.)  
 Nawracaj, Wojciech, and W. Jarosz, Hamtramck, Mich. Animal and bird trap. No. 1,391,489; Sept. 30; v. 290; p. 543.  
 Nayer, Carl F., Chicago, Ill. Aeroplane. No. 1,382,847; June 28; v. 287; p. 644.  
 Naylor, H. C., et al. (See Prigan, Ernest W., assignor.)  
 Naylor, Ira, and J. C. Tucker, Braxton, W. Va. Rail-joint closer. No. 1,390,153; Sept. 6; v. 290; p. 120.  
 Naylor, Ralph B. (See Midgley, T., and Naylor.)  
 Neafie, Andrew J., Mountain Lakes, N. J. Rail-joint. No. 1,399,269; Dec. 6.  
 Neahr, Will C., assignor to The Protective Signal Manufacturing Company, Denver, Colo. Automatic shunt. No. 1,377,267; May 10; v. 286; p. 225.  
 Neal, Albert, Kokomo, Ind. Lifting-jack. No. 1,384,539; July 12; v. 288; p. 315.  
 Neal, Albert, Kokomo, Ind. Lifting-jack. No. 1,385,489; July 26; v. 288; p. 668.  
 Neal, Burton, St. Louis, Mo. Multiple plan-sifter. No. 1,368,047; Feb. 8; v. 283; p. 284.  
 Neal, Burton, St. Louis, Mo. Multiple plan sifter. No. 1,368,826; Feb. 15; v. 283; p. 485.  
 Neal, Franklin G. (See Diel, Joseph J., assignor.)  
 Neal, Roy O. (See Parkhurst, I. P., and Neal.)  
 Neal, Samuel E., London, England. Tank or receptacle for holding liquid fuel or other combustible liquids. No. 1,364,786; Jan. 4; v. 282; p. 142.  
 Neale, Charles C., Minneapolis, Minn., assignor to Globe Machinery & Supply Company, Des Moines, Iowa. Automatic lock mechanism for dumping-scales. No. 1,392,075; Sept. 27; v. 290; p. 735.  
 Neale, Frank T., Carnegie, Pa. Reel structure. No. 1,385,092; July 19; v. 288; p. 511.  
 Neale, Herbert H., New York, N. Y. Spring suspension of self-propelled vehicles. No. 1,389,100; Aug. 30; v. 289; p. 857.  
 Neale, Herbert H., New York, N. Y. Spring suspension of self-propelled vehicles. No. 1,389,839; Sept. 6; v. 290; p. 56.  
 Neale, R. M. (See Nelson, Lewis D., assignor.)  
 Neale, William M., Greensboro, N. C. Shade-fixture. No. 1,389,264; Aug. 30; v. 289; p. 890.  
 Near, Albert E., executor. (See Johnston, Samuel.)  
 Nearon, Arle D., Muncie, Ind. Composite boot and shoe sole. No. 1,392,201; Sept. 27; v. 290; p. 761.  
 Nebel, Albert, Brooklyn, N. Y. Radiator. No. 1,377,912; May 10; v. 286; p. 350.  
 Nebel, Charles E., Gladstone, Mich. Wrench. No. 1,367,422; Feb. 1; v. 283; p. 107.  
 Nebel, Karl F., Philadelphia, Pa., assignor to The Nolde & Horst Company, Reading, Pa. Embroidering attachment for flat-knitting machines. No. 1,401,720; Dec. 27.  
 Nebel, Kurt, Chicago, Ill. Adjustable sink. No. 1,385,262; July 19; v. 288; p. 545.  
 Nebeling, Edmund R., New York, N. Y. Clasp for teeth. No. 1,392,784; Oct. 4.  
 Nebergall, Loran E., Omaha, Nebr. Deep-well-drilling device. No. 1,374,946; Apr. 19; v. 285; p. 406.  
 Nebel, Arnold, et al. (See Raymond, Le Roy, assignor.)  
 Necedah Manufacturing Corporation, The. (See De Brun, Frank H., assignor.)  
 Necedah Manufacturing Corporation, The. (See Thompson, A. N., and Knauber, assignors.)  
 Nechville, Wencil, Cedar Rapids, Iowa. Flue-cleaner. No. 1,392,202; Sept. 27; v. 290; p. 761.  
 Neebe, Henry O., New York, N. Y. Rotary internal-combustion engine. No. 1,370,548; Mar. 8; v. 284; p. 195.  
 Needham, Edmund F. (See Haggerty, Eugene, assignor.)  
 Needham, Edward F., Houston, Tex., assignor of one-half to J. D. Hall. Wall construction. No. 1,375,103; Apr. 19; v. 285; p. 437.  
 Needham, George H., assignor of one-half to G. J. Needham, Newark, N. J. Illuminated license-plate. No. 1,376,220; Apr. 26; v. 285; p. 682.  
 Needham, George J. (See Needham, George H., assignor.)  
 Needham, John T., Bayonne, N. J. Rotary blower. No. 1,386,792; Aug. 9; v. 289; p. 236.  
 Needham, Joseph, New York, N. Y. High-pressure governor-valve. No. 1,373,906; Apr. 5; v. 285; p. 103.  
 Needham, Joseph, New York, N. Y. Soldering-iron heater. No. 1,397,178; Nov. 15.  
 Needham, Joseph, Passaic, N. J. Gas-mixer. No. 1,399,788; Dec. 13.  
 Needham, William H., assignor to Boston Pressed Metal Company, Worcester, Mass. Mechanism for treating metal articles. No. 1,383,418; July 5; v. 288; p. 33.  
 Needham, William H., and N. J. Vile, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Lever for loom-dobbies. No. 1,369,700; Feb. 22; v. 283; p. 694.  
 Needles, John W., Pueblo, Colo. Articulator. No. 1,368,408; Feb. 15; v. 283; p. 403.  
 Neely, Edward, Chicago, Ill. Elastic wheel. No. 1,388,289; Aug. 23; v. 289; p. 642.  
 Neely, John M., Lima, Ohio. Pipe-clamp. No. 1,381,217; June 14; v. 287; p. 223.



*Alphabetical list of patentees—Continued.*

- Neely, Roy J., assignor to Liberty Tractor Corporation, Detroit, Mich. Coupling device for vehicles. No. 1,389,840; Sept. 6; v. 290; p. 57.
- Neely, William A., deceased, Lynn, Mass.; J. S. Richardson, administratrix. Trimming device for sewing-machines. No. 1,385,329; July 19; v. 288; p. 558.
- Neerup, Einar, Chicago, Ill. Hydrometer-syringe. No. 1,367,495; Feb. 1; v. 283; p. 122.
- Neerup, Einar, Chicago, Ill. Hydrometer-syringe. No. 1,384,399; July 12; v. 288; p. 286.
- Neesham, John B., Glasgow, Scotland. Molding machine. No. 1,392,697; Oct. 4.
- Neff, Abner R., Los Angeles, Calif. Index-head. No. 1,377,720; May 10; v. 286; p. 312.
- Neff, Abner R., Long Beach, Calif. Electric popcorn-popper. No. 1,380,579; June 7; v. 287; p. 48.
- Neff, Harry D., Cambridge, assignor to Re-Filut Broom Company, Boston, Mass. Broom-holder. No. 1,367,753; Feb. 8; v. 283; p. 229.
- Neff, John, Sr., West Hoboken, N. J. Airship. No. 1,370,902; Mar. 8; v. 284; p. 263.
- Neff, Oswald J., Easton, Pa. Window attachment. No. 1,380,237; May 31; v. 286; p. 990.
- Neff, Paul R., Bucyrus, Ohio. Auxiliary spring. No. 1,377,913; May 10; v. 286; p. 350.
- Negraval, Louis A., Jersey City, N. J. Jewelry-box. No. 1,367,322; Feb. 1; v. 283; p. 87.
- Negrete, Julio G. (See Soler, R. A., and Negrete.)
- Negretti and Zambra. (See Ibbott, Harold W., assignor.)
- Negromanti, Antonangelo, Milan, Italy. Device for heating by electricity. No. 1,374,091; Apr. 5; v. 285; p. 138.
- Negromanti, Antonangelo, Milan, Italy. Electrically heated coat. No. 1,379,356; May 24; v. 286; p. 750.
- Negus, Alfred C., Schenectady, N. Y. Pedestal-tie. No. 1,388,367; Aug. 23; v. 289; p. 658.
- Negus, George H., Romford, England. Construction of sparking-plugs for internal-combustion engines. No. 1,364,787; Jan. 4; v. 282; p. 143.
- Neidhammer, Clyde, Lemoyne, Pa. Lubricating device for air-compressors. No. 1,368,190; Feb. 8; v. 283; p. 313.
- Neidich, Samuel A., Burlington, N. J. Bicolored typewriter-ribbon and making same. No. 1,364,788; Jan. 4; v. 282; p. 143.
- Neidich, Samuel A., Burlington, N. J. Bicolored typewriter-ribbon. No. 1,364,789; Jan. 4; v. 282; p. 143.
- Neidlinger, George H., East Orange, N. J. Closing-guide for collapsible tubes. No. 1,383,141; June 28; v. 287; p. 700.
- Neihart, Daniel, Martins Ferry, Ohio. Sheet-feeding device. No. 1,365,534; Jan. 11; v. 282; p. 331.
- Neikirk, John O., Lombard, Ill. Locomotive washout and refilling apparatus. No. 1,396,139; Nov. 8.
- Neikirk, John O., Lombard, assignor to Rodger Ballast Car Company, Chicago, Ill. Door-operating mechanism. No. 1,374,516; Apr. 12; v. 285; p. 262.
- Neikirk, John O., Lombard, assignor to Rodger Ballast Car Co., Chicago, Ill. Convertible-car construction. No. 1,397,695; Nov. 22.
- Neil, Calvin B., and R. R. Boggs, assignors of one-third to J. M. Jones, Fannettsburg, Pa. Blackboard. No. 1,394,572; Oct. 25.
- Neill, Burton J. (See George, Frank L., assignor.)
- Neill, Charles R. (See Gatrell, E. T., and Neill.)
- Neilly, Daniel H., Bradford, Pa. Violin. No. 1,382,310; June 21; v. 287; p. 487.
- Neisen, Neils A., Cupertino, Calif. Gap-closing machine. No. 1,399,981; Dec. 13.
- Neilson, Albert H., Tulsa, Okla. Multiple sucker-rod socket. No. 1,382,602; June 21; v. 287; p. 544.
- Neilson, Anthony R., Elizabeth, N. J., assignor of one-half to National City Bank, New York, N. Y. Money-counter's desk. No. 1,368,827; Feb. 15; v. 283; p. 485.
- Neilson, Mary D., Minneapolis, Minn. Undergarment for women. No. 1,389,067; Aug. 30; v. 289; p. 851.
- Neilson, Robert E., assignor to Tulsa Machine and Tool Company, Tulsa, Okla. Temper-screw for well-drilling tools. No. 1,400,900; Dec. 20.
- Neilson, Thomas, London, England. Heating, cooling, and ventilating apparatus. No. 1,399,147; Dec. 6.
- Neilson, Thomas, London, England. Heating, cooling, or ventilating apparatus. No. 1,399,148; Dec. 6.
- Neimeyer, Charles, Little Rock, Ark., assignor to Demountable Spring Tire Company, St. Louis, Mo. Resilient wheel. No. 1,401,431; Dec. 27.
- Nein, William C. (See Varley, T. W., and Nein.)
- Neiswender, Charles A., and W. C. Wenthe, Topeka, Kans. Convertible porch-swing and couch. No. 1,396,774; Nov. 15.
- Neisz, Robert A., Richmond, Va. Audible speed-signal. No. 1,371,048; Mar. 8; v. 284; p. 291.
- Neitzel, Conrad T. (See Pade, G. V., and Neitzel.)
- Neldner, Stephen W., Milwaukee, Wis. Tire-rim tool. No. 1,376,723; May 3; v. 286; p. 65.
- Neldner, Theresa M., Milwaukee, Wis. Caster. No. 1,376,724; May 3; v. 286; p. 65.
- Nell, Gustave M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Means for opening the bores of rock-drilling steels. No. 1,388,437; Aug. 23; v. 289; p. 673.
- Nell, Gustave M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Fluid-operated motor. No. 1,399,223; Dec. 6.
- Nell, James A., New Britain, Conn. Surface and center indicator. No. 1,380,580; June 7; v. 287; p. 48.
- Neller, Albert H., assignor to Loudon Machinery Company, Fairfield, Iowa. Swill-distributor. No. 1,373,521; Apr. 5; v. 285; p. 28.
- Neller, Albert H., assignor to The Loudon Machinery Company, Fairfield, Iowa. Combined trolley and hoist. No. 1,380,830; June 7; v. 287; p. 97.
- Nelsen, Andrew, Chicago, Ill. Machine for polishing cans, pails, and the like. No. 1,365,717; Jan. 18; v. 282; p. 406.
- Nelson, Adolph L., Indianapolis, Ind. Oiling device for valve-stems. No. 1,370,346; Mar. 1; v. 284; p. 112.
- Nelson, Adolph L., Indianapolis, Ind. Internal-combustion engine. No. 1,372,897; Mar. 29; v. 284; p. 810.
- Nelson, Albert H., assignor to Babcock-Davis Corporation, Boston, Mass. Rotary pump. No. 1,387,296; Aug. 9; v. 289; p. 336.
- Nelson, Albert R., Sheridan, Wyo. Tent. No. 1,388,478; Aug. 23; v. 289; p. 680.
- Nelson, Albert R., Sheridan, Wyo. Oil-can. No. 1,401,180; Dec. 27.
- Nelson, Albin W., assignor to Whitin Machine Works, Whitinsville, Mass. Roll-spreader. No. 1,398,269; Nov. 29.
- Nelson, Andrew, Chattanooga, Tenn. Non-skid attachment for vehicle-wheels. No. 1,389,969; Sept. 6; v. 290; p. 83.
- Nelson, Andrew E., De Kalb, Ill. Saw-set. No. 1,383,009; June 28; v. 287; p. 675.
- Nelson, Anthony. (See Leitch, John H., assignor.) (Re-issue.)
- Nelson, Arthur, Rock Falls, Ill. Detachable handle. No. 1,396,140; Nov. 8.
- Nelson, Arthur F., Rogers Park, Ill. Device for applying paste to labels. No. 1,395,056; Oct. 25.
- Nelson, Arvid R., Mediapolis, Iowa. Manure-loader. No. 1,392,653; Oct. 4.
- Nelson, August, Chicago, Ill. Transfer-clamp. No. 1,397,290; Nov. 15.
- Nelson, Bernard S., New Orleans, La. Lubricating device. No. 1,377,023; May 3; v. 286; p. 123.
- Nelson, C. R. and W. A. (See Nelson, Charles R., assignor.)
- Nelson, Carl, and F. Snyder, Council Bluffs, Iowa. Car-door. No. 1,380,831; June 7; v. 287; p. 97.
- Nelson, Carl A. (See Griffin, J. T., Nelson, and Campbell.)
- Nelson, Carl A., Moline, Ill. Faucet. No. 1,383,231; June 28; v. 287; p. 717.
- Nelson, Carl N., Houston, Tex. Swing. No. 1,369,834; Mar. 1; v. 284; p. 15.
- Nelson, Charles A. (See O'Connor, D. J., Nelson, and Nahabed.)
- Nelson, Charles A., assignor to Savage Arms Corporation, Utica, N. Y. Cartridge-magazine. No. 1,365,845; Jan. 18; v. 282; p. 431.
- Nelson, Charles A., assignor to Savage Arms Corporation, Utica, N. Y. Firearm. No. 1,370,836; Mar. 8; v. 284; p. 251.
- Nelson, Charles A., Utica, N. Y., assignor to Savage Arms Corporation. Gas-operated firearm. No. 1,388,879; Aug. 30; v. 289; p. 813.
- Nelson, Charles A., assignor to Savage Arms Corporation, Utica, N. Y. Magazine-loader. No. 1,397,538; Nov. 22.
- Nelson, Charles R. (See Du Laney, James A., assignor.)
- Nelson, Charles R., assignor to C. R. and W. A. Nelson, Chicago, Ill. Loose-leaf binder. No. 1,388,591; Aug. 23; v. 289; p. 701.
- Nelson, Charles S., Quebec, Quebec, Canada. Attachment for punching-machines. No. 1,371,324; Mar. 15; v. 284; p. 407.
- Nelson, Clara O., Buffalo, N. Y. Spring-tire. No. 1,370,703; Mar. 8; v. 284; p. 226.
- Nelson, Clyde A., Cristobal, Canal Zone, Panama. Rod-splice. No. 1,368,191; Feb. 8; v. 283; p. 313.
- Nelson, De Witt, assignor to The Horton Manufacturing Company, Minneapolis, Minn. Link belt. No. 1,377,268; May 10; v. 286; p. 226.
- Nelson, De Witt, assignor of one-third to P. J. Lyons, Minneapolis, Minn., and one-third to J. F. Robinson, Steele, N. D. Portable loader. No. 1,381,585; June 14; v. 287; p. 291.
- Nelson, E. A., Automobile Company. (See Nelson, Emil A., assignor.)
- Nelson, Edward G. (See Wright, Charles B., assignor.)
- Nelson, Edwin. (See Zettermen, Axel, assignor.)
- Nelson, Elmer, Hatton, N. D. Reel for barbed wire. No. 1,368,648; Feb. 15; v. 283; p. 450.
- Nelson, Elmer F., Chicago, Ill., assignor to A. A. Weiss, St. Louis, Mo. Vulcanizing-mold. No. 1,397,447; Nov. 15.
- Nelson, Emil A., assignor to E. A. Nelson Automobile Company, Detroit, Mich. Tappet-valve mechanism for internal-combustion engines. No. 1,388,592; Aug. 23; v. 289; p. 702.
- Nelson, Erik W., New Rochelle, N. Y. Photographic-film-printing apparatus. No. 1,399,396; Dec. 6.
- Nelson, Frank E., Chicago, Ill. Airless tire. No. 1,364,790; Jan. 4; v. 282; p. 143.
- Nelson, Frank F., San Francisco, Calif. View-finding device. No. 1,400,901; Dec. 20.
- Nelson, Fred C., Oakland, Calif. Needle-threader. No. 1,371,429; Mar. 15; v. 284; p. 428.



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- Nelson, Frederick D., Detroit, Mich. Vacuum fuel-feeding system. No. 1,366,940; Nov. 15.
- Nelson, Gaylord M. (See Marsh, Hugh M., assignor.)
- Nelson, George G., Turlock, Calif. Body for dumping-trucks. No. 1,373,628; Apr. 5; v. 285; p. 48.
- Nelson, George H. and H. E. Smith, London, England. Burner for petrol air-gas. No. 1,385,263; July 19; v. 288; p. 545.
- Nelson, George W., assignor to The Standard Sewing Machine Company, Cleveland, Ohio. Button-sewing machine. No. 1,370,473; Mar. 1; v. 284; p. 136.
- Nelson, Harry H., assignor of one-half to P. A. Nelson, Minneapolis, Minn. Bracket for curtain-poles. No. 1,374,026; Apr. 5; v. 285; p. 126.
- Nelson, Henry, Beloit, Wis. Wheel-drive. No. 1,375,259; Apr. 19; v. 285; p. 466.
- Nelson, Herman C. (See Engstrom, O. L., and Nelson.)
- Nelson, John, Ottawa, Kans. Airship. No. 1,366,584; Jan. 25; v. 282; p. 620.
- Nelson, John, Ottawa, Kans. Portland-cement and calcining kiln. No. 1,366,585; Jan. 25; v. 282; p. 620.
- Nelson, John, Ottawa, Kans. Cement-kiln. No. 1,366,586; Jan. 25; v. 282; p. 621.
- Nelson, John, Ottawa, Kans. Wrench mechanism. No. 1,366,587; Jan. 25; v. 282; p. 621.
- Nelson, John, Ottawa, Kans. Concrete-tie-making machine. No. 1,400,969; Dec. 20.
- Nelson, John, Newton, Iowa, assignor to The Automatic Electric Washer Co. Washing-machine folding shelf. No. 1,369,933; Mar. 1; v. 284; p. 34.
- Nelson, John, Glasgow, Scotland. Cracking of hydrocarbon oils and the like. No. 1,391,568; Sept. 30; v. 290; p. 559.
- Nelson, John, Glasgow, Scotland. Cracking of hydrocarbon oils and the like. No. 1,391,569; Sept. 20; v. 290; p. 560.
- Nelson, John, Chicago, Ill. Steering-wheel lock. No. 1,393,731; Oct. 11.
- Nelson, John, Chicago, Ill. Cushion-wheel. No. 1,394,779; Oct. 25.
- Nelson, John, and R. Watson, Pasadena, Calif. Combined fence, plant-protector, and insect-destroyer. No. 1,373,827; Apr. 5; v. 285; p. 87.
- Nelson, John B., Jefferson, Tex. Mower. No. 1,383,656; July 5; v. 288; p. 82.
- Nelson, John F., New York, N. Y. Squeegee. No. 1,395,863; Nov. 1.
- Nelson, John G., Rockford, Ill. Antifriction-bearing. No. 1,394,110; Oct. 18.
- Nelson, John V., Maywood, assignor to F. K. Krag, Chicago, Ill. Drilling attachment for milling-machines. No. 1,397,696; Nov. 22.
- Nelson, John W., Norwood, Mass. Spark-plug. No. 1,375,926; Apr. 26; v. 285; p. 626.
- Nelson, Joseph E., & Sons. (See Tanner, Inos B., assignor.)
- Nelson, Joseph W., and R. S. Coulter, St. Cloud, Minn. Connecting-rod-oiling means. No. 1,392,592; Oct. 4.
- Nelson, Joyce C., Tracy, assignor of one-third to G. T. Schesvold, Minneapolis, and one-third to R. J. Nelson, Gales, Minn. Clamping device for bearings. No. 1,388,290; Aug. 23; v. 289; p. 642.
- Nelson, Karl O., and O. Albert, assignors to Galland-Henning Mfg. Co., Milwaukee, Wis. Baling-machine. No. 1,372,898; Mar. 29; v. 284; p. 810.
- Nelson, Lawrence C., Detroit, Mich., and J. C. Polan, Berwyn, assignors to McAvoy Manufacturing Company, Chicago, Ill. Automobile-curtain window. No. 1,386,793; Aug. 9; v. 289; p. 236.
- Nelson, Leigh G. (See Megley, Harley J., assignor.)
- Nelson, Leon J., Los Angeles, Calif., assignor of one-half to Benjamin A. Metcalf, Denver, Colo. Shoe-buffer. No. 1,398,389; Nov. 29.
- Nelson, Leonard G., Mapleton, Minn. Bandage-winding machine. No. 1,365,535; Jan. 11; v. 282; p. 331.
- Nelson, Lewis D., assignor of one-half to R. M. Neale, Union City, Mich. Internal-combustion engine. No. 1,366,018; Jan. 18; v. 282; p. 465.
- Nelson, Morton E., Albert Lea, Minn. Luggage-carrier. No. 1,398,140; Nov. 22.
- Nelson, Nate. (See Wasson, J. P., Wood, and Nelson.)
- Nelson, Nels A., et al. (See Corbett, George W., assignor.)
- Nelson, Nels A., Saukville, assignor of one-half to G. W. Bollow, Milwaukee, Wis. Fluid-pump. No. 1,370,903; Mar. 8; v. 284; p. 263.
- Nelson, Nels H., Willmar, Minn. Antiskid-chain. No. 1,395,057; Oct. 25.
- Nelson, Nels S., and A. Boode, Detroit, Mich. Trap. No. 1,391,570; Sept. 20; v. 290; p. 560.
- Nelson, Nordahl O., Westby, Wis. Sleigh attachment for autos. No. 1,392,438; Oct. 4.
- Nelson, Norman H. A., Flint, Mich. Fountain-pen. No. 1,391,267; Sept. 20; v. 290; p. 499.
- Nelson, Ole, Detroit, Mich. Lock for gear-shift levers. No. 1,364,578; Jan. 4; v. 282; p. 102.
- Nelson, Olof, Belmont, Mass. Adjustable boring-tool. No. 1,392,203; Sept. 27; v. 290; p. 761.
- Nelson, Olof, assignor to The Robbins Company, Attleboro, Mass. Name-plate attachment. No. 1,390,637; Sept. 13; v. 290; p. 309.
- Nelson, Oscar W. (See Storm, Adolph, assignor.)
- Nelson, P. A. (See Brixen, Andrew C., assignor.)
- Nelson, Per O., Minneapolis, Minn. Builder's tool. No. 1,380,407; June 7; v. 287; p. 15.
- Nelson, Peter A. (See Nelson, Harry H., assignor.)
- Nelson, Ralph M., Sellersville, Pa., assignor to United States Gauge Company, New York, N. Y. Pressure-gage. No. 1,391,138; Sept. 20; v. 290; p. 472.
- Nelson, Ralph M., and E. L. Aschenbach, Sellersville, Pa., assignors to United States Gauge Company, New York, N. Y. Pressure-gage. No. 1,393,155; Oct. 11.
- Nelson, Robert J., et al. (See Nelson, Joyce C., assignor.)
- Nelson, Robert J., Chicago, Ill. Boiler-furnace. No. 1,365,943; Jan. 18; v. 282; p. 451.
- Nelson, Samuel et al. (See Hughes, James W., assignor.)
- Nelsen, Soren. (See Anderson, C. O., and Nelson.)
- Nelson, Swan, assignor of one-half to I. Lund, Scanlon, Minn. Game. No. 1,365,944; Jan. 18; v. 282; p. 451.
- Nelson Tool Company. (See Lundstrom, John A., assignor.)
- Nelson, Virgil H., Sandy, assignor of one-half to B. J. Stewart, Salt Lake City, Utah. Agricultural machines. No. 1,370,347; Mar. 1; v. 284; p. 112.
- Nelson, Walter I., Galva, Ill. Clutch-release catch. No. 1,378,714; May 17; v. 286; p. 556.
- Nelson, Wesley D., Chicago, Ill. Drum. No. 1,391,786; Sept. 27; v. 290; p. 676.
- Nelson, William, Barrow-in-Furness, England. Cleaning and scrubbing device. No. 1,369,261; Feb. 22; v. 283; p. 608.
- Nelson, William, Wolcott, N. Y. Kicking-boot. No. 1,386,523; Aug. 2; v. 289; p. 109.
- Nelson, William G., Racine, Wis. Electric heating and regulating device for incubators. No. 1,388,966; Aug. 30; v. 289; p. 830.
- Nemethy, Charles, Yonkers, N. Y. Toy. No. 1,382,009; June 21; v. 287; p. 431.
- Nemnich, Gustave. (See Lewis, F. D., and Nemnich.)
- Nenneker, George F., LaPorte, Ind. Tuning attachment for wind musical instruments. No. 1,374,758; Apr. 12; v. 285; p. 308.
- Neptune, Herman P., San Diego, Calif. Pneumatic-tire pressure-gage. No. 1,396,141; Nov. 8.
- Neptune Meter Company. (See Marden, William L., assignor.)
- Neptune Meter Company. (See Ringler, Charles P., assignor.)
- Nerger, Frederick, Chicago, Ill. Resilient heel. No. 1,376,965; May 3; v. 286; p. 112.
- Nernst, Walther, Berlin, assignor to Firm Siemens & Halske Aktiengesellschaft, Berlin-Siemesstadt, Germany. Pressure-measuring instrument. No. 1,395,653; Nov. 1.
- Nero, Arvid H., New Britain, assignor to The Arrow Electric Company, Hartford, Conn. Pull-switch. No. 1,401,276; Dec. 27.
- Nesbit, Arthur F. (See McGee, F. R., and Nesbit.)
- Nesbit, Arthur F., Wilkinsburg, Pa. Direct-current transformer. No. 1,371,994; Mar. 15; v. 284; p. 537.
- Nesbit, Arthur F., Wilkinsburg, Pa. Electrical precipitation. No. 1,371,995; Mar. 15; v. 284; p. 537.
- Nesbitt, James A., et al. (See Dunn, Felix E., assignor.)
- Nesbitt, James A. (See Turner, T. R., and Nesbitt.)
- Nesbitt, Samuel T., et al. (See Tooker, Harry S., assignor.)
- Nescher, August E., Chicago, Ill. Fluid-pipe coupling for railway-cars. No. 1,387,508; Aug. 16; v. 289; p. 430.
- Nesmeier, John B., Omaha, Nebr. Non-skid device. No. 1,369,122; Feb. 22; v. 283; p. 582.
- Nesmeier, John B., Omaha, Nebr. Pulley-block. No. 1,376,457; May 3; v. 286; p. 15.
- Ness, Martin, Seattle, Wash. Stump-puller. No. 1,366,885; Jan. 25; v. 282; p. 680.
- Ness, Syver H., Portland, Oreg. Cover-lifting device. No. 1,376,630; May 3; v. 286; p. 47.
- Nessler, Charles, assignor to Nestle Patent Holding Co. Inc., New York, N. Y. Hair-waving apparatus. No. 1,400,370; Dec. 13.
- Nestle Patent Holding Co. (See Nessler, Charles, assignor.)
- Neth, George, New York, N. Y. Wire-stretcher for packing-boxes. No. 1,396,229; Nov. 8.
- Neth, George J., assignor to The Egly Register Company, Dayton, Ohio. Speed-regulating device. No. 1,392,963; Oct. 11.
- Nethercott, Charles J., Salt Lake City, Utah. Composition for preserving canvas. No. 1,371,258; Mar. 15; v. 284; p. 394.
- Nethercutt, Edgar S. (See Colman, Howard D., assignor.)
- Nethercutt, Charles A., Logansport, Ind. Antiskid device for tires. No. 1,375,534; Apr. 19; v. 285; p. 519.
- Netter, Raphael, assignor to M. C. Altmayer, New York, N. Y. Tire-protector. No. 1,378,605; May 17; v. 286; p. 534.
- Nettlefold, Oswald, London, England. Device for locking nuts and the like. No. 1,366,273; Jan. 18; v. 282; p. 515.
- Nettles, G. B., et al. (See Packwood, Charles W., assignor.)
- Netzel, Frank M., assignor to Velvet Rubber Company, Chicago, Ill. Making tire-casing fillers. No. 1,397,842; Nov. 22.
- Neubert, Richard L., Knoxville, Tenn. Traveling hoist. No. 1,389,265; Aug. 30; v. 289; p. 890.



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- Neubert, Richard L., Knoxville, Tenn. Traveling hoist. No. 1,392,785; Oct. 4.
- Neudeck, Wesley R., Kansas City, Kans. Decoy-minnow. No. 1,401,096; Dec. 20.
- Neuenschwander, Lewis, Los Angeles, assignor to Electric Fruit Marking Co., San Francisco, Calif. Electric fruit-marking machine. No. 1,367,077; Feb. 1; v. 283; p. 39.
- Neukirchen, Peter, Chicago, Ill. Toy pistol. No. 1,367,559; Feb. 8; v. 283; p. 192.
- Neukirchen, Peter, assignor to Columbia Fastener Company, Chicago, Ill. Combined dispensing-receptacle and spreader. No. 1,373,566; Apr. 5; v. 285; p. 37.
- Neuland, Alfons H., San Francisco, Calif. Power-transmission apparatus. No. 1,386,524; Aug. 2; v. 289; p. 109.
- Neuland, Alfons H., assignor to Neuland Electrical Company, Inc., San Francisco, Calif. Electro-magnetic transmission. No. 1,392,849; Oct. 4.
- Neuland Electrical Company. (See Neuland, Alfons H., assignor.)
- Neuls, Joseph D., assignor, by mesne assignments, to The Pacific R. & H. Chemical Corporation, Los Angeles, Calif. Insecticide and fumigation process. No. 1,381,586; June 14; v. 287; p. 291.
- Neumaier, John, Dayton, Ohio. Protractor. No. 1,387,297; Aug. 9; v. 289; p. 336.
- Neumann, John, Chicago, Ill. Oil-burner. No. 1,373,257; Mar. 29; v. 284; p. 881.
- Neumann, Martin J., and J. C. Mather, Oshkosh, Wis. Card-rod fastening and releasing device. No. 1,376,350; Apr. 26; v. 285; p. 707.
- Neumann, R., Hardware Co., The. (See Isidor, Joseph S., assignor.)
- Neumann, R., Hardware Co., The. (See Lotz, William A., assignor.)
- Neumann, R., Hardware Co., The. (See Tueckmantel, H., and Lotz, assignors.)
- Neumann, Samuel, New York, N. Y. Water-motor. No. 1,394,212; Oct. 18.
- Neumeister, Carl L., Scotland, S. D. Straight-edge. No. 1,396,274; Nov. 8.
- Neumeister, May B., Los Angeles, Calif. Sectional pian. No. 1,397,775; Nov. 22.
- Neumeyer, Horace F., Macungie, Pa. Automatic die. No. 1,399,867; Dec. 13.
- Neuteboom, Boudewijn B., Detroit Mich. Internal-combustion engine. No. 1,398,703; Nov. 29.
- Neuteboom, Boudewijn B., Detroit, Mich., assignor to Militor Corporation, New York, N. Y. Motor suspension. No. 1,390,154; Sept. 6; v. 290; p. 120.
- Neuteboom, Boudewijn B., Detroit, Mich., assignor to The Militor Corporation, New York, N. Y. Power-transmitting mechanism. No. 1,392,439; Oct. 4.
- Neverskid Manufacturing Co. (See Layman, Hebron B., assignor.)
- Nevett, Ralph D. (See Palmer, T. H., Seale, and Nevett.)
- Neveu, Frank A., Los Angeles, Calif. Radiator. No. 1,399,571; Dec. 6.
- Neveu, Frank A., Los Angeles, Calif. Radiator. No. 1,401,918; Dec. 27.
- Neville, Chris S., Kansas City, Mo., assignor of one-half to C. D. Armstrong, Los Angeles, Calif. Gasolene-flow-line lock. No. 1,394,860; Oct. 25.
- Neville, Frances A., *et al.*, executors. (See Howell, John A.)
- Neville, John H., Walville, Wash. Game. No. 1,372,770; Mar. 29; v. 284; p. 783.
- Neville, John J., Clifton Forge, Va. Ore-separator. No. 1,391,400; Sept. 20; v. 290; p. 525.
- Neville, Sylvester M., Cleveland, Ohio. Engine. No. 1,373,199; Mar. 29; v. 284; p. 870.
- Neville, Thomas. (See Gilbert, J. F., and Neville.)
- Nevin, Bernard, Toledo, Ohio. Rattler. No. 1,380,303; May 31; v. 286; p. 1002.
- Nevin, James, Thorold, Ontario, Canada. Artificial leg. No. 1,372,365; Mar. 22; v. 284; p. 664.
- Nevlus, Frazier W., St. Louis, Mo. Rubber floor-cleaner. No. 1,395,058; Oct. 25.
- New Departure Manufacturing Company, The. (See Pagé, Victor W., assignor.)
- New Departure Manufacturing Company, The. (See Simmons, C. B., and Hughes, assignors.)
- New, Edward A., Great Barrington, Mass., assignor to W. W. Nicoll, New York, N. Y. Magneto. No. 1,379,413; May 24; v. 286; p. 761.
- New England Butt Company. (See Littlefield, Arlon, assignor.)
- New England Cranberry Sales Company. (See Hayden, Lathrop A., assignor.)
- New England Confectionery Company. (See Thomas, Lester O., assignor.)
- New Era Manufacturing Company. (See Fanslow, Benjamin O., assignor.)
- New Era Toy Manufacturing Company. (See Kern, Charles J., assignor.)
- New Idea Spreader Company, The. (See Synck, H., and Rollman, assignors.)
- New Idea Spreader Company, The. (See Synck, Henry, assignor.)
- New Jersey Can Company. (See Kashinsky, John, assignor.)
- New Jersey Foundry & Machine Company. (See Hescock, E. N., and Smith, assignors.)
- New Jersey Foundry & Machine Company. (See Hescock, Ethan N., assignor.)
- New Jersey Patent Company. (See Cox, Harold N., assignor.)
- New Jersey Patent Company. (See Edison, Thomas A., assignor.)
- New Jersey Patent Company. (See Holland, Newman H., assignor.)
- New Jersey Patent Company. (See Langley, Sam G., assignor.)
- New Jersey Zinc Company, The. (See Borchardt, Walter O., assignor.)
- New Jersey Zinc Company, The. (See Coursen, Walter L., assignor.)
- New Jersey Zinc Company, The. (See Singmaster, James A., assignor.)
- New Process Oil Company. (See Seeger, Robert, assignor.)
- New System Manufacturing Company, The. (See Harkrader, George H., assignor.)
- New, Thomas E., assignor to The Precision Equipment Company, Cincinnati, Ohio. Manicure instrument. No. 1,375,167; Apr. 19; v. 285; p. 449.
- New York Air Brake Company, The. (See Bingley, John W., assignor.)
- New York Air Brake Company, The. (See Vroman, Erwin C., assignor.)
- New York Bath Manufacturing Inc. (See Holley, William V., assignor.)
- New York Bottlers' Supplies Manufacturing Co. (See Alexander, Harry, assignor.)
- New York Couch Bed Company. (See Sisbower, G. F., and Pittoni, assignors.)
- New York Engineering Company. (See Colven, James M., assignor.)
- New York Mackintosh Clothing Co. (See Place, Charles H., assignor.)
- Newark Gear Cutting Machine Co. (See Eberhardt, Ulrich S., assignor.)
- Newark, John, Coral, Pa. Coal-digger. No. 1,368,189; Feb. 8; v. 283; p. 313.
- Newberry, Spencer B., Cleveland, Ohio. Basic refractory brick. No. 1,400,087; Dec. 13.
- Newberry, Albert E., Quincy, Ill. Piston-ring clamp. No. 1,386,944; Aug. 9; v. 289; p. 267.
- Newberry, Spencer B., Cleveland, Ohio. Making cement and by-products. No. 1,366,479; Jan. 25; v. 282; p. 599.
- Newbigin, Henry T., Newcastle-upon-Tyne, England. Pumping of viscous substances. No. 1,377,914; May 10; v. 286; p. 251.
- Newbold, Harry, Herts, England. Placquet for eyeglasses. No. 1,390,005; May 31; v. 286; p. 946.
- Newbold, Harry, St. Albans, England. Rimless-eyeglass mount. No. 1,387,898; Aug. 16; v. 289; p. 508.
- Newbold, William C., and G. E. Lentz, Cincinnati, Ohio. Transmission-band. No. 1,379,647; May 31; v. 286; p. 879.
- Newborn, John C., Hagerman, N. Mex. Mattress. No. 1,382,531; June 21; v. 287; p. 530.
- Newburgh Metal Works. (See Schenke, Max E., assignor.)
- Newbury, Frank D., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control ling device. No. 1,400,092; Dec. 13.
- Newbury, Frank D., Pittsburgh, and H. D. James, Edgewood Park, Pa., assignors to Westinghouse Electric & Manufacturing Company. Excitation for synchronous-booster rotary converters. No. 1,392,076; Sept. 27; v. 290; p. 735.
- Newcomb, Benjamin R., Holyoke, Mass. Jacketed-cylinder construction. No. 1,368,522; Feb. 15; v. 283; p. 426.
- Newcomb, Delancy E., Sydney, Nova Scotia, Canada. Nut-lock. No. 1,397,820; Nov. 22.
- Newcomb, Edward C., Scituate, Mass., assignor to Standard Engineering Company, St. Louis, Mo. Axle construction. No. 1,381,218; June 14; v. 287; p. 223.
- Newcomb, Maron W., Glenellyn, assignor to Oil-Fuel Heat and Power Co., Chicago, Ill. Power plant for oil-burners. No. 1,372,186; Mar. 22; v. 284; p. 630.
- Newdick, Norton A., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Loading-machine. No. 1,370,904; Mar. 8; v. 284; p. 263.
- Newdick, Norton A., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Trackway. No. 1,370,905; Mar. 8; v. 284; p. 263.
- Newdick, Norton A., Columbus, Ohio, assignor to J. E. Jones, Switchback, W. Va. Conveying mechanism. No. 1,375,060; Apr. 19; v. 285; p. 429.
- Newell, Edgar, Irwin, Pa. Band-saw guide. No. 1,374,600; Apr. 12; v. 285; p. 278.
- Newell, George G. (See Crouse, H. M., and Newell.)
- Newell, James E. (See Ingram, Sleeper T., assignor.)
- Newell, Louis B., assignor to Carr-Lowrey Glass Company, Baltimore, Md. Bottle. No. 1,399,313; Dec. 6.
- Newell, Peter S. H., Leonia, N. J., assignor to The Diamond Toy Corporation, Wilmington, Del. Educational toy. No. 1,378,893; May 24; v. 286; p. 662.
- Newell, Robert C., *et al.* (See Wann, John T., assignor.)
- Newell, Robert E., Irwin, Pa. Automatic cut-off for gas-valves. No. 1,388,593; Aug. 23; v. 289; p. 702.
- Newell, Walter E. (See Field, C., and Newell.)



*Alphabetical list of patentees—Continued.*

- Newgirk, Michael H. (See Martin, Harold G., assignor.)  
 Newhall, Henry B., Jr., executor. (See Karitzky, John, assignor.)  
 Newhall, Henry B., Jr., executor. (See Lieb, George W., assignor.)  
 Newhall, Henry B., Jr., executor. (See Pleister, H. W., and Karitzky, assignors.)  
 Newhall, Henry B., Jr., executor. (See Pleister, Henry W., assignor.)  
 Newhall, Henry B., Jr., executor. (See Sherwood, D. R., and Karitzky, assignors.)  
 Newhall, Henry B., Jr., executor. (See Sherwood, Daniel R., assignor.)  
 Newhall, Henry B., Plainfield, N. J. Conduit or cable clamp and bridle-ring. No. 1,365,624; Jan. 11; v. 282; p. 348.  
 Newhall, Henry B., Plainfield, N. J. Conduit or cable clamp and bridle-ring. No. 1,381,219; June 14; v. 287; p. 224.  
 Newhall, Henry B., Plainfield, N. J. Conduit or cable clamp and bridle-ring. No. 1,381,220; June 14; v. 287; p. 224.  
 Newhall, Henry B., Plainfield, and H. W. Pleister, Westfield, N. J.; said Pleister assignor of all his right to H. B. Newhall, Jr., executor of H. B. Newhall, deceased. Conduit or cable clamp and bridle-ring. No. 1,365,623; Jan. 11; v. 282; p. 348.  
 Newhouse, Cecil J., Mounds, Okla. Washing-machine. No. 1,391,571; Sept. 20; v. 290; p. 560.  
 Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Motor-vehicle and driving same. No. 1,374,947; Apr. 19; v. 285; p. 406.  
 Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Lubricating device for chain-pins. No. 1,385,968; July 26; v. 288; p. 764.  
 Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Fastening. No. 1,389,154; Aug. 30; v. 289; p. 862.  
 Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Communiting-mill. No. 1,394,334; Oct. 18.  
 Newhouse, Ray C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tube-mill. No. 1,399,982; Dec. 13.  
 Newland, Roy T., and M. Merriam, assignor of one-half to A. Pincus and W. Meyer, Butte, Mont. Talking-machine. No. 1,401,277; Dec. 27.  
 Newman, Albert T., Emporia, Kans. Dry-cleaning apparatus. No. 1,386,647; Aug. 9; v. 289; p. 206.  
 Newman, Arthur S., Highgate, London, assignor of one-third to T. H. Bolam and one-third to Sidney N. Barnard, London, England. Means for joining the ends of cinematograph-films. No. 1,383,745; July 5; v. 288; p. 101.  
 Newman Clock Company. (See Jenkins, Charles H., assignor.)  
 Newman, Earl B., Findlay, Ohio. Lighting-fixture. No. 1,396,654; Nov. 8.  
 Newman, George, San Francisco, Calif. Shirt-cuff. No. 1,391,205; Sept. 20; v. 290; p. 486.  
 Newman, Isidor, New York, N. Y. Tool for capping cans. No. 1,370,039; Mar. 1; v. 284; p. 54.  
 Newman, Isidor, New York, N. Y. Tool for capping cans. No. 1,370,040; Mar. 1; v. 284; p. 54.  
 Newman, John F., Kansas City, Mo. Hoe. No. 1,388,191; Aug. 23; v. 289; p. 622.  
 Newman, Louis C. (See Brown, Charles J., assignor.)  
 Newman, M. R. (See King, Roy D., assignor.)  
 Newman, Mary J., Fort Smith, Ark. Washing-machine. No. 1,380,238; May 31; v. 286; p. 990.  
 Newman, Wilson, Ardmore, Okla. Dustpan. No. 1,371,107; Mar. 8; v. 284; p. 302.  
 Newnam, William E., Collinsville, Ill., assignor, by mesne assignments, to National Lead Company, New York, N. Y. Mechanically-operated Scotch hearth. No. 1,388,144; Aug. 16; v. 289; p. 556.  
 Newport, Leonard. (See Gerril, W. W., and Dawson, assignors.)  
 Newquist, Oscar E., Carlton, Minn. Implement-holding device. No. 1,366,324; Jan. 18; v. 282; p. 524.  
 Newsom, Joseph N., assignor to Newsom Valve Company, St. Louis, Mo. Dust-cap for pneumatic valves. No. 1,370,474; Mar. 1; v. 284; p. 137.  
 Newsom, Joseph N., assignor to The Newsom Valve Company, St. Louis, Mo. Valve control for pneumatic tires. No. 1,392,440; Oct. 4.  
 Newsom, Oscar L., Fitzgerald, Ga. Track-tool. No. 1,365,265; Jan. 11; v. 282; p. 279.  
 Newsom Valve Company. (See Newsom, Joseph N., assignor.)  
 Newsome, John, Sandersville, Ga. Washing-machine. No. 1,380,076; May 31; v. 286; p. 960.  
 Newth, Basil, assignor to R. H. Barr, O. Bohrsmann, I. Henry, and A. Markell, Sydney, New South Wales, Australia. Mechanism for feeding blast-furnaces. No. 1,376,458; May 3; v. 286; p. 15.  
 Newton, Andre H., Beaumont, Tex. Price-tag holder. No. 1,389,266; Aug. 30; v. 289; p. 890.  
 Newton, Byron G., Syracuse, N. Y. Hydraulic transmission mechanism. No. 1,378,184; May 17; v. 286; p. 454.  
 Newton, Charles H., Plainville, Conn. Rocker-arm tool. No. 1,366,928; Feb. 1; v. 283; p. 9.  
 Newton, Charles H., Plainville, Conn. Lubricant-conduit. No. 1,383,746; July 5; v. 288; p. 102.  
 Newton, Daniel L., and N. H. Anderson, Fullerton, Calif. Still. No. 1,376,631; May 3; v. 286; p. 48.  
 Newton, Frederick, Derby, England. Driving and control mechanism, particularly for planing-machines. No. 1,379,833; May 31; v. 286; p. 914.  
 Newton, George C. and R. E., Milwaukee, Wis. Building reinforced-concrete and composite vessels. No. 1,367,986; Feb. 8; v. 283; p. 273.  
 Newton, George F., Kansas City, Mo. Adjustable rod-clamp. No. 1,378,267; May 17; v. 286; p. 470.  
 Newton, George L., Machen, Ga. Peanut-harvester. No. 1,389,526; Aug. 30; v. 289; p. 942.  
 Newton, Jephtha M., Dothan, Ala. Tensioning and pulling device. No. 1,400,371; Dec. 13.  
 Newton, John F., Sheffield, England. Folding scissors. No. 1,370,906; Mar. 8; v. 284; p. 263.  
 Newton, Leonard V. (See Willis, G. M., and Newton.)  
 Newton Machine Tool Works. (See Muth, George F., assignor.)  
 Newton, Otis S., Columbus, Ohio. Grease-gun. No. 1,386,648; Aug. 9; v. 289; p. 206.  
 Newton, Ralph E. (See Newton, George C. and R. E.)  
 Newton, Richard T., New York, N. Y. Automobile-bumper. No. 1,379,414; May 24; v. 286; p. 761.  
 Newton, Richard T., New York, N. Y. Automobile-bumper. No. 1,380,239; May 31; v. 286; p. 990.  
 Newton, Richard T., New York, N. Y. Liquid-gage. No. 1,382,532; June 21; v. 287; p. 530.  
 Newton, Richard T., New York, N. Y. Gage. No. 1,396,655; Nov. 8.  
 Newton, Richard T., New York, N. Y. Automobile-bumper. (Reissue.) No. 15,238; Nov. 29.  
 Newton, Richard T., assignor to Arms Products Company, New York, N. Y. Explosive missile. No. 1,369,701; Feb. 22; v. 283; p. 694.  
 Newton, Richard T., Nutley, N. J. Vehicle. No. 1,382,533; June 21; v. 287; p. 530.  
 Newton, Richard T., Nutley, N. J. Vehicle. No. 1,400,372; Dec. 13.  
 Newton, Robert W., Providence, R. I. Automatic sprinkler. No. 1,392,593; Oct. 4.  
 Newton, Sydney R., Victoria, B. C., Canada. Tire-protective cover. No. 1,370,549; Mar. 8; v. 284; p. 196.  
 Newton, William J., Lynbrook, assignor, by mesne assignments, to J. G. Livingston, Woodmere, Long Island, N. Y. Electric wall-switch. No. 1,366,924; Feb. 1; v. 283; p. 9.  
 Newton, William J., Lynbrook, assignor, by mesne assignments, to J. G. Livingston, Woodmere, N. Y. Switch or receptacle box. No. 1,386,421; Aug. 2; v. 289; p. 90.  
 Newton, Wilmer A. (See Knowlton, H. W., and Newton.)  
 Ney, J. M. Company, The. (See Pfunder, Emil L., assignor.)  
 Neyland, Edward T. (See Ickes, Peter C., assignor.)  
 Neyland, Cary A., Spokane, Wash. Making type and type holders. No. 1,393,307; Oct. 11.  
 Neyland, Cary A., Spokane, Wash. Making type and type-holders. No. 1,393,308; Oct. 11.  
 Neyland, William M., Goliah, Tex. Ice-cream freezer. No. 1,388,055; Aug. 16; v. 289; p. 538.  
 Niagara Alkali Company. (See MacMillan, J. R., and Snyder, assignors.)  
 Niagara Alkali Company. (See MacMillan, John R., assignor.)  
 Niagara Machine & Tool Works. (See Munschauer, Frederick E., assignor.)  
 Niagara Sprayer Co. (See Tower, M. L., and Begtrup, assignors.)  
 Nibbe, George W., Chicago, Ill. Tie-plate. No. 1,389,686; Sept. 6; v. 290; p. 25.  
 Niblo, James A. (See Mnschek, L., and Niblo.)  
 Niccum, Ellsworth, Kent, Wash. Ladder. No. 1,401,354; Dec. 27.  
 Nic-Heater Corporation. (See Nichols, James S., assignor.)  
 Nicholas, Edward, Cambridge, Mass. Ash-sifter. No. 1,380,832; June 7; v. 287; p. 97.  
 Nicholas, Joseph J., assignor to Albert F. W. Vick Company, Philadelphia, Pa. Filler for cavities in trees. No. 1,380,922; June 7; v. 287; p. 115.  
 Nicholas, Lewis, Indianapolis, Ind. Low-water-signal apparatus for steam-boilers. No. 1,376,966; May 3; v. 286; p. 112.  
 Nicholas, Oley G., Sioux City, Iowa. Concrete-building form. No. 1,373,523; Apr. 5; v. 285; p. 28.  
 Nicholas Power Company. (See Power, Nicholas, assignor.)  
 Nicholas, Wilbur H., Indianapolis, Ind. Septic-sewage-disposal pipe. No. 1,394,780; Oct. 25.  
 Nicholl, John S., assignor to Electric Boiler Corporation, Cambridge, Mass. Combined lavatory and water-heater. No. 1,378,185; May 17; v. 286; p. 454.  
 Nicholls, George H., Beaumont, Tex. Combination steeper and dripper. No. 1,365,185; Jan. 11; v. 282; p. 263.  
 Nicholls, George H., Beaumont, Tex. Combination dripper and steeper. No. 1,366,824; Jan. 25; v. 282; p. 668.  
 Nicholls, Henry M., Lockport, N. Y. Coating-machine. No. 1,400,310; Dec. 13.



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- Nicholls, William H., Brooklyn, N. Y. Molding-machine. No. 1,367,079; Feb. 1; v. 283; p. 39.
- Nichols, Charles W., St. Louis, Mo. Sash-fastener. No. 1,398,036; Nov. 22.
- Nichols Copper Company. (See Martin, Oliver C., assignor.)
- Nichols, Edgar B., Rochester, N. Y. Toy. No. 1,375,721; Apr. 26; v. 285; p. 587.
- Nichols, Edgar B., assignor to The Pfaudler Company, Rochester, N. Y. Outlet for jacketed vessels. No. 1,392,204; Sept. 27; v. 290; p. 761.
- Nichols, Ernest F., New Haven, Conn. Circuit-closer. No. 1,376,967; May 3; v. 286; p. 112.
- Nichols, Harry J., Washington, D. C. Marker-shell. No. 1,394,335; Oct. 18.
- Nichols, Henry, Newark, N. J. Resilient wheel. No. 1,397,140; Nov. 15.
- Nichols, Herbert, Holyoke, assignor to Draper Corporation, Hopedale, Mass. Needle-feeler. No. 1,380,157; May 31; v. 286; p. 975.
- Nichols, James C., Berwyn, and E. Ryder, Argo, Ill. Clamping device. No. 1,391,401; Sept. 20; v. 290; p. 526.
- Nichols, James S., assignor to Nic-Heater Corporation, Atlanta, Ga. Heating device for open fireplaces. No. 1,370,348; Mar. 1; v. 284; p. 112.
- Nichols, James S., assignor to Nic-Heater Corporation, Atlanta, Ga. Fireplace-heater. No. 1,370,349; Mar. 1; v. 284; p. 112.
- Nichols, John W., Deer Lodge, Mont. Rail-bond remover. No. 1,373,017; Mar. 29; v. 284; p. 834.
- Nichols, Raymond W. (See Wright, G. W., and Nichols.)
- Nichols, William H., Pittsburgh, Pa. Making chilled rolls. No. 1,374,517; Apr. 12; v. 285; p. 262.
- Nichols, William H., Lanesville, Ill. Tractor gang-plow. No. 1,390,578; Sept. 13; v. 290; p. 296.
- Nicholson, Alexander M., Hillsdale, N. J. Method and apparatus for steering vessels. No. 1,392,786; Oct. 4.
- Nicholson, Benjamin L. (See Kean, E. A., and Nicholson.)
- Nicholson, Charles H., Brooklyn, N. Y. Test-indicator. No. 1,399,314; Dec. 6.
- Nicholson, Edward, *et al.* (See Huntley, Charles L., assignor.)
- Nicholson, Frank C. (See Udy, M. J., and Nicholson.)
- Nicholson, Henry A., assignor to E. A. Craig, Auckland, New Zealand. Steam-generator. No. 1,366,207; Jan. 18; v. 282; p. 502.
- Nicholson, James C., Orlando, Fla. Cut-off attachment for lathes. No. 1,373,258; Mar. 29; v. 284; p. 881.
- Nicholson, Joseph L., *et al.* (See Huntley, Charles L., assignor.)
- Nicholson, Nicholas A., Johnstown, Pa. Fire-protector. No. 1,396,656; Nov. 8.
- Nicholson, Soterios. (See Soullotis, Kyriakos, assignor.)
- Nicholson, Stanley W., assignor to Dura Mechanical Hardware Company, Toledo, Ohio. Counterbalance-arm and spring. No. 1,401,355; Dec. 27.
- Nicholson, William R., assignor of one-half to C. E. V. Smith, Beaver City, Nebr. Attachment for windmill-operated pumps. No. 1,374,385; Apr. 12; v. 285; p. 235.
- Nicholson, William T., Blackpool, England. Package for belt-hooks. No. 1,393,451; Oct. 11.
- Nicht, Alexander J., Jr., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Motor-control apparatus. No. 1,399,983; Dec. 13.
- Nickel, Thomas B., McCracken, Kans. Pump-operating mechanism. No. 1,391,572; Sept. 20; v. 290; p. 560.
- Nickerson, Bernard S., Boston, Mass. Spring-motor-controlling mechanism. No. 1,384,272; July 12; v. 288; p. 260.
- Nickerson, Charles F., Reading, Mass. Pulley-adapter. No. 1,371,512; Mar. 15; v. 284; p. 445.
- Nickerson, Charles F., Reading, Mass. Belt for grooved pulleys. No. 1,371,513; Mar. 15; v. 284; p. 445.
- Nickerson, Charles F., Reading, Mass. Pulley-adapter. (Reissue.) No. 15,159; July 19; v. 288; p. 564.
- Nickerson, Oris H. (See Boyton, J. C., and Nickerson.)
- Nickerson, Samuel S., Lisbon, N. H. Writing-tablet for the blind. No. 1,371,430; Mar. 15; v. 284; p. 429.
- Nicklaus, William E., Madison, Ind. Backrest for farm machinery. No. 1,388,291; Aug. 23; v. 289; p. 642.
- Nickol, Frederick C., assignor to City Machine & Tool Works, Dayton, Ohio. Machine for forming armature-coils. No. 1,373,522; Apr. 5; v. 285; p. 28.
- Nickolaus, John A., Richland, Wash. Irrigating-valve No. 1,401,097; Dec. 20.
- Nickum, Walter D., Glendale, Calif. Electrical water-level-indicating apparatus. No. 1,388,479; Aug. 23; v. 289; p. 681.
- Nickum, Walter D., Glendale, Calif. Electrode for electrical water-level-indicating apparatus and other electrical apparatus. No. 1,398,270; Nov. 29.
- Nicodemus, Harry, Baltimore, Md. Wheel-locking device. No. 1,401,721; Dec. 27.
- Nicol, John, Los Angeles, Calif. Clamp. No. 1,375,312; Apr. 19; v. 285; p. 477.
- Nicol, Norman C., New York, N. Y. Support. No. 1,371,514; Mar. 15; v. 284; p. 445.
- Nicoll, William W. (See New, Edward A., assignor.)
- Nicols, Lowell W. (See Scholes, S. R., Nicols, and Kaufman.)
- Nicols, Whiriam L., Tuscumbia, Ala. Portable scaffold. No. 1,364,791; Jan. 4; v. 282; p. 143.
- Nicolson, Alexander M., assignor to Western Electric Company, Incorporated, New York, N. Y. Thermionic translating device. No. 1,366,411; Jan. 25; v. 282; p. 585.
- Nicoson, Lemuel C., Alexandria, Ind., assignor to American Trust Company, trustee, New York, N. Y. Adjustable automobile-holder. (Reissue.) No. 15,203; Oct. 4.
- Niebel, Gottfried, New York, N. Y. Toy furniture set. No. 1,379,648; May 31; v. 286; p. 879.
- Nieberung, Frank A., Cleveland, Ohio. Stove. No. 1,370,704; Mar. 8; v. 284; p. 226.
- Nieherding, Joseph, Baltimore, Md. Docking appliance. No. 1,390,056; Sept. 6; v. 290; p. 101.
- Niedergang, Charles, F. P. Stenger, and T. J. Frey, Cincinnati, Ohio. Gas and air mixer. No. 1,367,201; Feb. 1; v. 283; p. 63.
- Niederluecke, William H., St. Louis, Mo. Table-pad. No. 1,389,567; Aug. 30; v. 289; p. 950.
- Nidermaier, Joseph O., War, W. Va. Automobile locking device. No. 1,395,970; Nov. 1.
- Niedziela, Antoni, Manchester, N. H. Curtain-fixture. No. 1,383,142; June 28; v. 287; p. 700.
- Nielsen, Aage W., Chicago, Ill. Can-soldering machine. No. 1,392,964; Oct. 11.
- Nielsen, Andrew C., Cleveland, Ohio. Cutting-tool holder. No. 1,371,515; Mar. 15; v. 284; p. 445.
- Nielsen, Elmer C., Rawlins, Wyo. Watch winding attachment. No. 1,386,351; Aug. 2; v. 289; p. 77.
- Nielsen, Emanuel, assignor to Hamilton-Beach Mfg. Co., Racine, Wis. Variable-speed transmission. No. 1,380,006; May 31; v. 286; p. 946.
- Nielsen, Hans J., Mayer, Ariz. Key-guard. No. 1,368,743; Feb. 15; v. 283; p. 469.
- Nielsen, Hans J., San Francisco, Calif. Automatic propeller-governor for boats. No. 1,376,632; May 3; v. 286; p. 48.
- Nielsen, Hans J., San Francisco, Calif. Key-guard. No. 1,381,424; June 14; v. 287; p. 261.
- Nielsen, Harald, Middlesex, and F. D. Marshall, Westminster, London, England. Fuel feeding and distributing device for gas-producers. No. 1,376,567; May 3; v. 286; p. 35.
- Nielsen, Harald, Middlesex, and F. D. Marshall, Westminster, London, England. Rotary grate for gas-producers. No. 1,378,369; May 17; v. 286; p. 489.
- Nielsen, Harald, Middlesex, and F. D. Marshall, Westminster, London, England. Heat-exchange apparatus. No. 1,378,715; May 17; v. 286; p. 556.
- Nielsen, Harald, Middlesex, and F. D. Marshall, Westminster, London, England. Gas-washing apparatus. No. 1,378,716; May 17; v. 286; p. 556.
- Nielsen, Harald, Middlesex, and F. D. Marshall, Westminster, London, England. Air-saturating tower. No. 1,378,717; May 17; v. 286; p. 556.
- Nielsen, James P. (See Bailey, G., and Nielsen.)
- Nielsen, John, Beloit, Wis. Work-table for grinding-machines. No. 1,365,536; Jan. 11; v. 282; p. 331.
- Nielsen, Julian J. (See Cuthbert, J., and Nielsen.)
- Nielsen, Lauritz F., assignor to The Allied Tractor Company, Minneapolis, Minn. Tractor. No. 1,384,968; July 19; v. 288; p. 484.
- Nielsen, Marius J., Vesteraby, Denmark. Feed-roll for grain and seed cleaning machines or the like. No. 1,375,228; Apr. 19; v. 285; p. 461.
- Nielsen, Nicolai B., and E. G. Brant, Milwaukee, Wis. Window-ventilator. No. 1,399,135; Dec. 6.
- Nielsen, Niels A. I., Copenhagen, Denmark. Combined electric lamp and alarm-clock. No. 1,372,771; Mar. 29; v. 284; p. 784.
- Nielsen, Niels D., Elyria, Ohio. Means for making butterine, oleomargarin, and the like. No. 1,364,297; Jan. 4; v. 282; p. 49.
- Nielsen, Niels D., Elyria, Ohio. Fluid-agitating apparatus. No. 1,375,168; Apr. 19; v. 285; p. 449.
- Nielsen, Niels D., Elyria, Ohio. Heating and cooling apparatus. No. 1,383,419; July 5; v. 288; p. 34.
- Nielsen, Niels D., Elyria, Ohio. Liquid-agitating mechanism. No. 1,399,644; Dec. 6.
- Nielsen, Sigurd C., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, Typographical machine. No. 1,386,794; Aug. 9; v. 289; p. 236.
- Nielson, Walter A., New York, N. Y. Clothes-rack. No. 1,364,509; Jan. 4; v. 282; p. 90.
- Niemann, Skjold J., St. Paul, Minn. Swimming-glove. No. 1,384,673; July 12; v. 288; p. 344.
- Niemela, Jack, Fort Bragg, Calif. Wire-stretcher. No. 1,397,878; Nov. 22.
- Nienaber, Louis F., St. Paul, Minn., assignor to Lambert Tire & Rubber Co., Incorporated, Akron, Ohio. Fastening cushion-tires to rims. No. 1,391,846; Sept. 27; v. 290; p. 689.
- Nies, Gershom J., Beaumont, Tex. Templet. No. 1,380,240; May 31; v. 286; p. 990.
- Nies, William F., Rochester, N. Y. Nut-lock. No. 1,364,298; Jan. 4; v. 282; p. 50.
- Niesner, John E. (See Eichensehr, G. C., and Niesner.)
- Niesz, Franklin B., Canton, Ohio, assignor to The Bucher and Gibbs Plow Company. Gang-plow. No. 1,380,581; June 7; v. 287; p. 48.



*Alphabetical list of patentees—Continued.*

- Nietz, Adolph H. (See McDaniel, A. S., and Nietz.)  
 Niewinski, Victor, St. Paul, Minn. Flycatcher. No. 1,364,949; Jan. 11; v. 282; p. 218.  
 Nieznalski, Joseph, and J. Belczynski, Detroit, Mich. Retort-cleaning machine. No. 1,392,020; Sept. 27; v. 290; p. 725.  
 Nightingale, John T. (See Hood, A. N., Nightingale, Leland, and Dike.)  
 Nihart, Frank B., Bay Minette, Ala. Window-fastener for auto-curtains. No. 1,382,666; June 28; v. 287; p. 610.  
 Nikiel, Stefan, New York, N. Y. Fire-alarm apparatus. No. 1,386,649; Aug. 9; v. 289; p. 206.  
 Nikonow, John P., New York, N. Y., assignor, by mesne assignments, to The Hawthorne Company, Bridgeport, Conn. Electric spotlight. (Reissue.) No. 15,102; May 10; v. 286; p. 367.  
 Nikonow, John P., New York, N. Y., assignor, by mesne assignments, to The Hawthorne Company, Bridgeport, Conn. Electric lamp. No. 1,392,441; Oct. 4.  
 Niland, Andrew. (See Carlson, August J., assignor.)  
 Nileon, Richard D., Bell, Pa. Can-opener. No. 1,372,899; Mar. 29; v. 284; p. 810.  
 Niles-Bement-Pond Company. (See Blood, Harold L., assignor.)  
 Niles-Bement-Pond Company. (See Coles, Henry L., assignor.)  
 Niles-Bement-Pond Company. (See Greenleaf, George E., assignor.)  
 Niles-Bement-Pond Company. (See Hagman, William J., assignor.)  
 Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)  
 Niles-Bement-Pond Company. (See Teas, D. H., and Wood, assignors.)  
 Niles, Edith L., Delaware, Ohio. Sectional furniture. No. 1,390,374; Sept. 13; v. 290; p. 255.  
 Nilsen, Nils. (See Foss, Christian, assignor.)  
 Nilson, A. H., Machine Co., The. (See Olson, Mauritz, assignor.)  
 Nilson, Harold and L., Wayzata, Minn. Tractor. No. 1,400,230; Dec. 13.  
 Nilson, Leonard. (See Nilson, Harold and L.)  
 Niman, Herman J., Madison, Wis. Farm-pick. No. 1,369,835; Mar. 1; v. 284; p. 15.  
 Nimicks, Josephine S., Freehold, N. J. Swinging cradle. No. 1,388,117; Aug. 16; v. 289; p. 550.  
 Nimmer, William A. (See Pilgrim, J. F., and Nimmer.)  
 Nin y Martinez, Antolin, Santurce, Porto Rico. Resilient wheel. No. 1,383,004; June 28; v. 287; p. 674.  
 Nipper, John W., Knoxville, Tenn. Valve-facing tool. No. 1,394,573; Oct. 25.  
 Nips, Incorporated. (See Goodchild, Walter, assignor.)  
 Nishi, Chotoku, San Francisco, Calif. Manufacturing porcelain jacket-crowns. No. 1,372,772; Mar. 29; v. 284; p. 784.  
 Nishi, Chotoku, San Francisco, Calif. Apparatus for manufacturing porcelain jacket-crowns. No. 1,382,010; June 21; v. 287; p. 431.  
 Nishi, Nagakata and N., Berkeley, Calif. Thermal circuit-controller. No. 1,377,848; May 10; v. 286; p. 338.  
 Nishi, Nagasumi. (See Nishi, Nagakata and N.)  
 Nishimoto, Risaku, Tacoma, Wash. Vacuum-cleaner. No. 1,385,573; July 26; v. 288; p. 685.  
 Nissen, Peter L., Kansas City, Mo., assignor to The United States Automatic Fire Alarm Company. Automatic circuit-breaker. No. 1,380,493; June 7; v. 287; p. 32.  
 Nissen, Peter N., London, England. Portable building. No. 1,377,500; May 10; v. 286; p. 271.  
 Nissrod, John, Jacksonville, Fla. Stump-puller. No. 1,396,657; Nov. 8.  
 Nistri, Umberto, Rome, Italy. Method of photogrammetric survey and apparatus therefor. No. 1,396,047; Nov. 8.  
 Nitrogen Corporation, The. (See Clancy, John C., assignor.)  
 Nitsch, Charles H. (See Weightman, W. A., and Nitsch.)  
 Nitsch, Charles H., assignor to Stokes and Smith Company, Philadelphia, Pa. Machine for pressing necks in boxes. No. 1,397,597; Nov. 22.  
 Nitsch, Frederick L., assignor, by mesne assignments, to G. F. Sax, Syracuse, N. Y. Machine for shaping candle ends. No. 1,380,582; June 7; v. 287; p. 48.  
 Nitsch, Frederick L., and A. Meier, Syracuse, N. Y. Entrance for beehives. No. 1,387,734; Aug. 16; v. 289; p. 476.  
 Nitschman, Joseph. (See Ruoff, C., and Nitschman.)  
 Nittel, Frederick W., assignor to M. S. Company, Attleboro, Mass. Jewelry catch or clasp. No. 1,396,588; Nov. 8.  
 Nix, J. M. (See Fletcher, Theodore, assignor.)  
 Nix, Edward A., Montreal, Quebec, Canada. Weather-proofing means for window-sashes. No. 1,391,003; Sept. 20; v. 290; p. 444.  
 Nixdorf, Samuel P. (See Alexanderson, E. F. W., and Nixdorf.)  
 Nixon, Arthur, Manchester, England. India-rubber composition. No. 1,384,400; July 12; v. 288; p. 286.  
 Nixon, Leroy, Murray Hill, N. J. Milking apparatus. No. 1,391,573; Sept. 20; v. 290; p. 560.  
 Nixon Manufacturing Company. (See Nixon, Vergne A., assignor.)  
 Nixon, Mordecai M., Edenton, N. C. Machine for digging peanuts out of the ground. No. 1,401,486; Dec. 27.  
 Nixon, Moses C., Chicago, Ill. Bed or attachment therefor. No. 1,398,271; Nov. 29.  
 Nixon, Vergne A., assignor to Nixon Manufacturing Company, Lake Villa, Ill. Tank-closure. No. 1,369,754; Feb. 22; v. 283; p. 705.  
 Noah, John P., Galena, Ill. Nut-lock. No. 1,389,006; Aug. 30; v. 289; p. 839.  
 Noah, Leroy H., assignor of one-fourth to J. E. Robeson and one-fourth to R. E. Teall, Palco, Kans. Traction-wheel. No. 1,376,896; May 3; v. 286; p. 99.  
 Noakes, Robert J., Montreal, Quebec, Canada, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Valve-coupling. No. 1,388,523; Aug. 23; v. 289; p. 689.  
 Noall, John. (See McClenathan, R., and Noall.)  
 Nobbe, Edward J. (See Mehl, C. F., Liebler, Nall, and Nobbe.)  
 Nobbs, George H., Jamaica Plain, Mass. Tractor. No. 1,366,019; Jan. 18; v. 282; p. 465.  
 Nobbs, George H., Watertown, Mass. Tractor. No. 1,366,020; Jan. 18; v. 282; p. 466.  
 Nobbs, George H., Quincy, assignor to The Phonoharp Company, East Boston, Mass. Airplane-velocipede. No. 1,373,444; Apr. 5; v. 285; p. 13.  
 Nobel's Explosives Company. (See Rintoul, W., Nolan, and Strickland, assignors.)  
 Noble, Donald, Bridgeport, Conn. Wire-covering machine. No. 1,367,709; Feb. 8; v. 283; p. 221.  
 Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Perforating-machine. No. 1,376,897; May 3; v. 286; p. 99.  
 Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Perforating-machine. No. 1,382,378; June 21; v. 287; p. 500.  
 Noble, Edward J. (See Mehl, C. F., Liebler, Nall, and Nobbe.)  
 Noble, Gertrude H., Douglas, Ariz. Ice-card holder. No. 1,366,412; Jan. 25; v. 282; p. 585.  
 Noble, Guy E., Dallas, Tex. Combined curb and gutter finishing tool. No. 1,401,487; Dec. 27.  
 Noble, Irvine M., and W. E. Gossling, Indianapolis, Ind., assignors to Prest-O-Lite Company, Inc. Storage battery. No. 1,364,299; Jan. 4; v. 282; p. 50.  
 Noble, Newton S. (See Geer, W. C., Noble, and Teed.)  
 Noble, Warren, assignor to N. C. L. Engineering Corporation, Providence, R. I. Cable controlling and storing means for winches. No. 1,364,579; Jan. 4; v. 282; p. 102.  
 Noble, Warren, assignor to N. C. L. Engineering Corporation, Providence, R. I. Pump. No. 1,367,827; Feb. 8; v. 283; p. 244.  
 Noble, Warren, assignor to N. C. L. Engineering Corporation, Providence, R. I. Bolt-nut. No. 1,381,587; June 14; v. 287; p. 292.  
 Noble, Warren, assignor to N. C. L. Engineering Corporation, Providence, R. I. Making flexible sleeve-valves. No. 1,383,747; July 5; v. 288; p. 102.  
 Noble, Warren, assignor to N. C. L. Engineering Corporation, Providence, R. I. Sleeve-valve engine. No. 1,384,401; July 12; v. 288; p. 286.  
 Noble, Warren, assignor to N. C. L. Engineering Corporation, Providence, R. I. Vibration-quenching mount for internal-combustion motors. No. 1,388,967; Aug. 30; v. 289; p. 830.  
 Noble, William P., Detroit, Mich. C. O. D. envelop container. No. 1,374,218; Apr. 12; v. 285; p. 203.  
 Nodder, Gerald. (See Clayton, W., and Nodder.)  
 Noddings, Henry S., Springfield, Mass. Sine-bar. No. 1,374,759; Apr. 12; v. 285; p. 308.  
 Nodland, Jacob O., Chicago, Ill. Awning-support. No. 1,377,784; May 10; v. 286; p. 325.  
 Nodon, Albert, Bordeaux, France. Electric accumulator. No. 1,390,155; Sept. 6; v. 290; p. 120.  
 Noe, Harold C., East Orange, N. J. Electric-light cluster. No. 1,366,093; Jan. 18; v. 282; p. 480.  
 Noel, Eli, Kansas City, Mo. Universal joint. No. 1,389,970; Sept. 6; v. 290; p. 83.  
 Noel, Eli, Kansas City, Mo. Universal joint. No. 1,389,971; Sept. 6; v. 290; p. 83.  
 Noel, Joseph M., Portage, Pa. Talking-machine. No. 1,372,975; Mar. 29; v. 284; p. 826.  
 Noel, Joseph M., Portage borough, Pa. Repeating phonograph mechanism. No. 1,375,927; Apr. 26; v. 285; p. 626.  
 Noetting, William H., Evansville, Ind. Caster. No. 1,383,557; July 5; v. 288; p. 62.  
 Noeske, Elmer O., Milwaukee, Wis. Signal for railway-crossing gates. No. 1,374,027; Apr. 5; v. 285; p. 126.  
 Noeth, John J. (See Hummel, F. E., and Noeth.)  
 Noeth, Michael, Chicago, Ill. Heating-stove. No. 1,382,667; June 28; v. 287; p. 610.  
 Noggle, John B., Kansas City, Mo. Chair. No. 1,389,317; Aug. 30; v. 289; p. 900.  
 Noguera, Juan, Buenos Aires, Argentina. Air-compressor. No. 1,383,657; July 5; v. 288; p. 82.  
 Nohlen, Carl, Cleburne, Kans. Jetty. No. 1,373,629; Apr. 5; v. 285; p. 48.  
 Noisom, Ole P., South Bend, Ind. Compass. No. 1,388,292; Aug. 23; v. 289; p. 648.



*Alphabetical list of patentees—Continued.*

- Nolan, Clyde, assignor to American Steam Conveyor Corporation, Chicago, Ill. Self-opening bucket. No. 1,400,902; Dec. 20.
- Nolan, Clyde, assignor to American Steam Conveyor Corporation, Chicago, Ill. Self-opening-bucket. No. 1,400,903; Dec. 20.
- Nolan, Thomas J. (See Rintoul, W., Nolan, and Strickland.)
- Nolan, William E., Tulsa, Okla. Sealing the walls of deep wells. No. 1,398,563; Nov. 29.
- Nolan, William E., Tulsa, Okla. Drilling well. No. 1,401,488; Dec. 27.
- Nolche, Cecil. (See Bussler, Thomas O., assignor.)
- Nolde & Horst Company, The. (See Nebel, Karl F., assignor.)
- Nolen, Owen, D., Lebanon, Tenn. Hay-perforating device. No. 1,376,568; May 3; v. 286; p. 36.
- Nolin, Eliza, Monroe, Iowa. Disk-sharpener. No. 1,370,350; Mar. 1; v. 284; p. 113.
- Noll, Charles, assignor of one-third to I. A. Reader and one-third to E. C. Reader, Cleveland, Ohio. Plastic composition. No. 1,393,814; Oct. 18.
- Noll, Henry, Queens, assignor to himself and J. W. Streeton, New York, N. Y. Two-tone double-piece dye goods and making same. No. 1,376,569; May 3; v. 286; p. 36.
- Nollmann, Georg, Buenos Aires, Argentina. Rotary motor. No. 1,388,438; Aug. 23; v. 289; p. 673.
- Nolte, Frank, et al. (See Binns, John B., assignor.)
- Nolte, Herbert, et al. (See Faust, Casper, assignor.)
- Nomeland, Sam K., Porter, Minn. Novelty match-box. No. 1,400,904; Dec. 20.
- Nomi, Konosuke, Kitatoshima-gun, Japan. Utilization of petroleum-pitch. No. 1,386,945; Aug. 9; v. 289; p. 267.
- Non Explosive Appliance Company. (See Halt, Charles H., assignor.)
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe-cutter. No. 1,384,208; July 12; v. 288; p. 246.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe-cutter. No. 1,393,156; Oct. 11.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe-cutter. No. 1,394,781; Oct. 25.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diestock. No. 1,399,397; Dec. 6.
- Noonan, Albert S., assignor to Foss-Hughes Company, Philadelphia, Pa. Tire-chain-applying device. No. 1,378,606; May 17; v. 286; p. 535.
- Noonan, Thomas F., Chicago, Ill. Water-heating system. No. 1,366,208; Jan. 18; v. 282; p. 502.
- Norberg, Jonas, Latouche, Alaska. Concentrate-drier. No. 1,386,352; Aug. 2; v. 289; p. 77.
- Norbye, Julius, Minneapolis, Minn. Oil-well apparatus. No. 1,389,007; Aug. 30; v. 289; p. 839.
- Norcross, Camillo S., Bushnell, Ill. Wheel-cultivator. No. 1,369,744; Feb. 15; v. 283; p. 469.
- Norcross, David C., et al. (See Dolbear, Clinton E., assignor.)
- Norcross, Elmer C., Pemberton, N. J. Food-chopper. No. 1,374,092; Apr. 5; v. 285; p. 138.
- Norcross, William C., Terre Haute, Ind. Mold. No. 1,370,550; Mar. 8; v. 284; p. 196.
- Norcross, William C., assignor to American Molding Machine Company, Terre Haute, Ind. Pattern-drawing machine. No. 1,378,186; May 17; v. 286; p. 454.
- Nordberg, Bruno V., Milwaukee, Wis. Support for rockershafts and the like. No. 1,397,598; Nov. 22.
- Nordberg, Bruno V., Milwaukee, Wis. Valve for air-compressors and the like. No. 1,400,373; Dec. 13.
- Nordberg, Carl R., Altoona, and W. F. Koon, Duncanville, Pa. Automatic cylinder-cock. No. 1,394,337; Oct. 18.
- Nordby, Kristoffer J., Lie, Norway. Ditch-digging machine. No. 1,374,093; Apr. 5; v. 285; p. 139.
- Nordell, Carl H., Indianapolis, Ind., assignor of one-half to W. J. Kenney, Chicago, Ill. Sedimentation. No. 1,400,622; Dec. 20.
- Nordfeldt, Charles E. (See Anthony, A. H., and Norfeldt.)
- Nordfors, Conrad. (See Wood, H. A. W., and Nordfors.)
- Nordhaugen, Adolph C. (See La Brant, P. R., and Nordhaugen.)
- Nordhaus, William H., assignor to K. W. Battery Company, Chicago, Ill. Table for pasting storage-battery plates. No. 1,401,181; Dec. 27.
- Nordin, Charles R., Omaha, Nebr. Automobile-lock. No. 1,376,221; Apr. 26; v. 285; p. 682.
- Nordiska Kullager Aktiebolaget Sweden. (See Danielsson, Axel, assignor.)
- Nordiska Kullager Aktiebolaget. (See Leon, Karl O., assignor.)
- Nordiska Kullager Aktiebolaget. (See Lindman, Konrad W., assignor.)
- Nordiska Kullager Aktiebolaget. (See Weibull, Ernst H. W., assignor.)
- Nordling, Emil. (See Christiansen, C., and Nordling.)
- Nordquist, Arthur. (See Johnson, E., and Nordquist.)
- Nordquist, Peter A., assignor to Detachable Plow Share Edge Manufacturing Company, Ogden, Utah. Detachable-plow-edge-bending machine. No. 1,374,094; Apr. 5; v. 285; p. 139.
- Nordquist, Peter A., assignor to Detachable Plow Share Edge Manufacturing Company, Ogden, Utah. Detachable plowshare edge. No. 1,401,432; Dec. 27.
- Norquist, Ralph A., Jamestown, N. Y. Combination hinge and lid-support. No. 1,390,579; Sept. 13; v. 290; p. 296.
- Nordqvist, Per E., Dufbo, Sundbyberg, Sweden. Friction-clutch and the like. No. 1,398,564; Nov. 29.
- Nordstrom, Edward O., Minneapolis, Minn. Berry-box. No. 1,401,549; Dec. 27.
- Nordstrom, Eloy, Newark, N. J., assignor, by mesne assignments, to American Dan Bottle Seal Corporation. Index mechanism. No. 1,383,331; July 5; v. 288; p. 15.
- Nordstrom, George W., Brooklyn, N. Y. Raising and lowering device for hatch-ventilators. No. 1,385,574; July 26; v. 288; p. 685.
- Nordstrom, Sven J., San Francisco, Calif. Wrench. No. 1,400,905; Dec. 20.
- Nordwick, Henry A., assignor of one-half to F. Seppi, Stockton, Calif. Internal-combustion engine. No. 1,374,164; Apr. 5; v. 285; p. 152.
- Nordyke & Marmon Company. (See Ziegler, Leslie I., assignor.)
- Norelius, Emil F. (See Turnbull, W., and Norelius.)
- Norelius, Emil F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Transmission mechanism for tractors. No. 1,387,009; Aug. 9; v. 289; p. 280.
- Norelius, Emil F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor transmission. No. 1,395,004; Oct. 25.
- Norfolk, Joseph R. B., Jessup, Md. Control for artificial arms and legs. No. 1,388,524; Aug. 23; v. 289; p. 689.
- Norfolk Power Appliance Corporation. (See Mueller, Paul F., assignor.)
- Norgell, Thomas J., Alois, Wis. Envelop. No. 1,382,114; June 21; v. 287; p. 450.
- Norin, Carl E., Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,370,475; Mar. 1; v. 284; p. 137.
- Norleen, David E., Abbotsford, Wis. Apparatus for pasteurizing whey. No. 1,390,308; Sept. 13; v. 290; p. 242.
- Norling, Reinhold A., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Connecting-rod. No. 1,391,847; Sept. 27; v. 290; p. 689.
- Norlund, Olof A., Williamsport, Pa. Tire-removing tool. No. 1,385,948; July 26; v. 288; p. 760.
- Norma Company of America, The. (See Bott, George R., assignor.)
- Norma Company of America, The. (See Mueller, Frederick E., assignor.)
- Norman, Ashley C., Battersea Park, London, England. Non-skid device for motor and other vehicles. No. 1,381,001; June 7; v. 287; p. 130.
- Norman, Edward R., Chicago, Ill. Piston-ring. No. 1,367,710; Feb. 8; v. 283; p. 221.
- Norman, Edward R., Chicago, Ill. Packing-ring. No. 1,378,894; May 24; v. 286; p. 662.
- Norman, Glenn E., Nevada, Mo. Tunnel-kiln. No. 1,372,773; Mar. 29; v. 284; p. 784.
- Norman, Howard F., Newtonville, Mass. Trolley-pole head. No. 1,379,037; May 24; v. 286; p. 689.
- Norman, Orville P., assignor of one-half to L. A. Winter, Los Angeles, Calif. Automatic cutlery-grinder. No. 1,392,698; Oct. 4.
- Norman, Otto D., Spencer, W. Va. Drilling-machine. No. 1,376,028; Apr. 26; v. 285; p. 646.
- Norman, Sterling E., Franklin, Mass. Liquid-dispenser. No. 1,379,357; May 24; v. 286; p. 751.
- Norman, William F., Nevada, Mo. Grave-marker. No. 1,400,970; Dec. 20.
- Norrie, James, Quincy, Mass. Mangle. No. 1,385,703; July 26; v. 288; p. 712.
- Norrie, James, Quincy, Mass. Mangle. No. 1,385,704; July 26; v. 288; p. 712.
- Norris, Emma M., executrix. (See Norris, John H.)
- Norris, Emma M., executrix. (See Norris, John H.) (Reissue.)
- Norris, John B., San Francisco, Calif. Coin-handling device. No. 1,385,885; July 26; v. 288; p. 748.
- Norris, John H., deceased, New York, N. Y.; E. M. Norris, executrix. Meter. No. 1,388,835; Aug. 23; v. 289; p. 749.
- Norris, John H., deceased, New York, N. Y., by E. M. Norris, executrix. Meter. (Reissue.) No. 15,232; Nov. 22.
- Norris, Leroy M., Mullan, Idaho. Electrically-operated door. No. 1,365,266; Jan. 11; v. 282; p. 279.
- Norris, Nelson H., Renfrew, Ontario, Canada. Centrifugal bowl for use on centrifugal separators. No. 1,371,259; Mar. 15; v. 284; p. 394.
- Norris, Paul E., Swissvale, Pa., assignor to Willard Storage Battery Company, Cleveland, Ohio. Lug-cleaner and plate-splitter. No. 1,372,824; Mar. 29; v. 284; p. 794.
- Norris, Paul E., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Machine for cleaning lugs of storage-battery plates. No. 1,372,979; Mar. 29; v. 284; p. 827.
- Norris, Paul E., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Lead-burning machine for storage-battery plates. No. 1,389,155; Aug. 30; v. 289; p. 868.



*Alphabetical list of patentees—Continued.*

- Norris, Paul E., Pittsburgh, assignor to Westinghouse Union-Battery Company, Swissvale, Pa. Separator for storage batteries. No. 1,386,630; Aug. 9; v. 289; p. 207.
- Norris, Paul E., Pittsburgh, assignor to Westinghouse Union Battery Company, Swissvale, Pa. Terminal structure for electric batteries. No. 1,386,946; Aug. 9; v. 289; p. 267.
- Norris, Robert, Wytheville, Va. Window-pulley and housing therefor. No. 1,367,276; Feb. 1; v. 283; p. 78.
- Norris, William F., Kansas City, Mo. Spring-wheel. No. 1,397,448; Nov. 15.
- Norristown Magnesia and Asbestos Co. (See Burgstesser, Abram K., assignor.)
- Norsk Alkali A/S. (See Riiber, Claus N., assignor.)
- Norsk Hydro-Elektrisk Kvaestofaktieselskab. (See Aanerud, S. A., and Halvorsen, assignors.)
- Norsk-Hydro-Elektrisk Kvaestofaktieselskab. (See Jensen, Olaf, assignor.)
- Norswing, Knute B. (See Matthews, Newton W., assignor.)
- North Bros. Mfg. Co. (See Leopold, George O., assignor.)
- North, Clayton O., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Compounding of rubber products. No. 1,399,789; Dec. 13.
- North East Electric Company. (See Dorsey, Farnum F., assignor.)
- North East Electric Company. (See Halbleib, E. A., and Lee, assignors.)
- North East Electric Company. (See Halbleib, Edward A., assignor.)
- North East Electric Company. (See Lee, Earle P., assignor.)
- North East Electric Company. (See Lyon, E., and Williams, assignors.)
- North East Electrical Company. (See Lee, Thomas L., assignor.)
- North Electric Manufacturing Company, The. (See Dickerson, George W., assignor.)
- North, Frederick K., Chicago, Ill. Massaging device. No. 1,377,140; May 3; v. 286; p. 145.
- North, George H., Cranston, assignor to Gorham Manufacturing Company, Providence, R. I. Silverware cleaning and washing machine. No. 1,376,379; Apr. 26; v. 285; p. 712.
- North, John M., Sparta, Ill. Coal-mine curtain-rod. No. 1,398,909; Nov. 29.
- North & Judd Manufacturing Company, The. (See Hancock, Horace G., assignor.)
- North & Judd Manufacturing Company, The. (See Troop, George W., assignor.)
- North, Paul, *et al.* (See Haber, Henry J., assignor.)
- North, William H., Cambridge, Md. Collar-protector. No. 1,388,056; Aug. 16; v. 289; p. 538.
- Northall, William H. (See Espenlaub, J. W., Northall, and Goedeke.)
- Northall, William H., assignor of one-fourth to S. C. James and one-fourth to H. Males, Evansville, Ind. Vehicle-wheel tire. No. 1,365,057; Jan. 11; v. 282; p. 238.
- Northcutt, John G., and M. Crawford, Silverton, Tex. Agricultural machine. No. 1,398,198; Nov. 22.
- Northern Equipment Company. (See Andrews, Roger W., assignor.)
- Northern Equipment Company. (See Veenschoten, Vincent V., assignor.)
- Northern Trust Company, trustee, *The, et al.* (See Lauda, Joseph F., assignor.)
- Northern Trust Company, *The, et al.*, trustee. (See Scott, Ray W., assignor.)
- Northover, Harry R., Winnipeg, Manitoba, Canada. Machine for filling cartridge-magazines, cartridge-belts, strip-chargers, and the like. No. 1,395,928; Nov. 1.
- Northrop, Charles E., Dayton, Ohio. Carbureter-lock. No. 1,384,674; July 12; v. 288; p. 344.
- Northrop, Jonas, assignor to Hopedale Manufacturing Company, Milford, Mass. Shuttle. No. 1,371,389; Mar. 15; v. 284; p. 420.
- Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Feeler-loom. No. 1,372,082; Mar. 22; v. 284; p. 610.
- Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Feeler-loom. No. 1,372,083; Mar. 22; v. 284; p. 610.
- Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Filling-detector mechanism. No. 1,372,084; Mar. 22; v. 284; p. 611.
- Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Wind-up mechanism for looms. No. 1,383,478; July 5; v. 288; p. 46.
- Northrup, Edwin F., Princeton, assignor to Pyroelectric Instrument Co., Trenton, N. J. Electrical measurement. No. 1,374,316; Apr. 12; v. 285; p. 222.
- Northrup, Edwin F., Princeton, assignor to Pyroelectric Instrument Co., Trenton, N. J. Electrical measuring apparatus. No. 1,375,010; Apr. 19; v. 285; p. 419.
- Northrup, Edwin F., Princeton, assignor, by mesne assignments, to Ajax Electrothermic Corporation, Trenton, N. J. Focus inductor-furnace. No. 1,378,187; May 17; v. 286; p. 455.
- Northrup, Edwin F., Princeton, assignor, by mesne assignments, to Ajax Electrothermic Corporation, Trenton, N. J. Ladle-heating by high-frequency currents. No. 1,378,188; May 17; v. 286; p. 455.
- Northrup, Edwin F., Princeton, assignor, by mesne assignments, to Ajax Electrothermic Corporation, Trenton, N. J. Method and apparatus for melting oxides, &c., without contamination. No. 1,378,189; May 17; v. 286; p. 455.
- Northrup, Elmer C., Oakland, Calif. Box-printing machine. No. 1,366,925; Feb. 1; v. 283; p. 9.
- Northrup, Thomas A., Washington, Pa. Inserted pump for oil-wells. No. 1,378,268; May 17; v. 286; p. 470.
- Northwestern Bakers Supply Co. (See Fogelquist, Alexander E., assignor.)
- Norton, A. O., Inc. (See Gormley, Frank L., assignor.)
- Norton, A. O., Inc. (See Lombard, Walter E., assignor.)
- Norton, Allen B., assignor to The Aluminum Castings Company, Cleveland, Ohio. Treating castings. No. 1,384,033; July 5; v. 288; p. 160.
- Norton, Arthur G., Rochester, N. Y. Pump. No. 1,369,461; Feb. 22; v. 283; p. 647.
- Norton, Arthur G., Rochester, N. Y. Detachable cap. No. 1,373,092; Mar. 29; v. 284; p. 848.
- Norton, Charles H., Worcester, Mass., assignor to Norton Company. Mounting for grinding-machine spindles. No. 1,382,606; June 21; v. 287; p. 544.
- Norton, Charles H., assignor to Norton Company, Worcester, Mass. Driving and reversing mechanism. No. 1,385,969; July 26; v. 288; p. 764.
- Norton, Charles H., assignor to Norton Company, Worcester, Mass. Reversing mechanism. No. 1,385,970; July 26; v. 288; p. 764.
- Norton, Charles L., Boston, Mass., assignor to Asbestos Shingle Company. Controlling the setting of cement products. No. 1,379,204; May 24; v. 286; p. 721.
- Norton, Charles H., and A. Turner, assignors to Norton Company, Worcester, Mass. Clutch mechanism. No. 1,389,267; Aug. 30; v. 289; p. 890.
- Norton Company. (See Alden, George I., assignor.)
- Norton Company. (See Anderson, Albert H., assignor.)
- Norton Company. (See Anderson, Harry O., assignor.)
- Norton Company. (See Beecher, Milton F., assignor.)
- Norton Company. (See Dodge, Herbert K., assignor.)
- Norton Company. (See Fraser, Warren F., assignor.) (Reissue.)
- Norton Company. (See Hook, Henry C., assignor.)
- Norton Company. (See Jeppson, George N., assignor.)
- Norton Company. (See Johanson, P. and Francke, assignors.)
- Norton Company. (See King, Clarence R., assignor.)
- Norton Company. (See Larsson, Thure, assignor.)
- Norton Company. (See Norton, C. H., and Turner, assignors.)
- Norton Company. (See Norton, Charles H., assignor.)
- Norton Company. (See Purdy, R. C., Beecher, and Klein, assignors.)
- Norton Door Check Company. (See Norton, Lewis C., assignor.)
- Norton, Edward P., Oakland, Calif. Safety-razor. No. 1,386,353; Aug. 2; v. 289; p. 77.
- Norton, Fred E., Worcester, Mass. Process and apparatus for the manufacture of carbids and derivatives thereof. No. 1,374,317; Apr. 12; v. 285; p. 222.
- Norton, Fred E., Worcester, Mass. Propulsion for submarine vessels. No. 1,380,804; May 31; v. 286; p. 1002.
- Norton, James A., Odebolt, Iowa. Irrigating apparatus. No. 1,387,165; Aug. 9; v. 289; p. 310.
- Norton, John M., assignor to The Plymouth Gypsum Co., Fort Dodge, Iowa. Cutting-machine. No. 1,377,219; May 10; v. 286; p. 214.
- Norton, John P., Orange, Conn. Universal rotary vender. No. 1,364,449; Jan. 4; v. 282; p. 78.
- Norton, Lewis C., assignor to Norton Door Check Company, Chicago, Ill. Door-controlling device. No. 1,385,389; July 26; v. 288; p. 646.
- Norton, Oscar C., Roodhouse, Ill. Sight-feed device. No. 1,392,205; Sept. 27; v. 290; p. 761.
- Norton, Roxanna A., New York, N. Y. Dust-bag. No. 1,378,607; May 17; v. 286; p. 535.
- Norton, Samuel H., assignor to McCrosky Tool Corporation, Meadville, Pa. Steady-rest. No. 1,370,705; Mar. 8; v. 284; p. 226.
- Northwed, Bennie, Kellerton, Iowa. Pliers. No. 1,367,711; Feb. 8; v. 283; p. 222.
- Norvell, Lorenzo, trustee. (See Dillon, Edward L., assignor.)
- Norvell, Lorenzo, St. Louis, Mo. Automobile-hood. No. 1,365,121; Jan. 11; v. 282; p. 251.
- Norwood, Harry G., assignor to W. Fuld, Baltimore, Md. Rocking toy. No. 1,373,630; Apr. 5; v. 285; p. 48.
- Norwood, Harry G., assignor to W. A. Fuld, Baltimore, Md. Child's vehicle. No. 1,373,631; Apr. 5; v. 285; p. 48.
- Norwood, Harry G., assignor to W. Fuld, Baltimore, Md. Wheeled toy. No. 1,376,570; May 3; v. 286; p. 36.
- Norwood, Harry G., assignor to W. Fuld, Baltimore, Md. Folding table. No. 1,381,588; June 14; v. 287; p. 292.
- Nosawa, Katchi. (See Asakawa, S., and Nosawa.)
- Noseworthy, Stuart, Cambridge, Mass. Combination hammer and hatchet. No. 1,383,232; June 28; v. 287; p. 717.



*Alphabetical list of patentees—Continued.*

- Nossagk, Frederik, assignor to Composite Metal Lath Company, New York, N. Y. Machine for producing composite metal laths. No. 1,398,141; Nov. 22.
- Notala Verkstads Nya Aktiebolag. (See Von Porat, Karl H. V., assignor.)
- Nott, Robert J., Victoria, British Columbia, Canada. Heater. No. 1,366,926; Feb. 1; v. 283; p. 9.
- Nott, Robert J., Victoria, British Columbia, Canada. Boiler. No. 1,376,158; Apr. 26; v. 285; p. 670.
- Nottage, Stanley G., Murraysville, Pa., assignor to Westinghouse Electric & Manufacturing Company. Liquid rheostat. No. 1,387,509; Aug. 16; v. 289; p. 430.
- Nottingham, Carl A., and C. Tuhey, Muncie, Ind., assignors, by mesne assignments, to American Nottingham Process Company. Apparatus for distillation. No. 1,379,876; May 31; v. 286; p. 922.
- Nottingham, Otis W., Indianapolis, Ind. Heater and cooker. No. 1,373,828; Apr. 5; v. 285; p. 87.
- Nourse, Frank C., Boise, Idaho. Device for separating seeds. No. 1,397,141; Nov. 15.
- Novak, Frank, et al. (See Stoetzel, Joseph J., assignor.)
- Novelty Amusement Co. (See Kerestes, George A., assignor.)
- Novick, Abraham, assignor to F. L. Smithe Machine Co., Inc., New York, N. Y. Washer and string attaching machine. No. 1,370,551; Mar. 8; v. 284; p. 196.
- Novick, Abraham, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Machine for attaching strings to envelopes and the like. No. 1,375,229; Apr. 19; v. 285; p. 461.
- Novick, Abraham, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Machines for attaching string to envelopes and the like. No. 1,388,594; Aug. 23; v. 289; p. 702.
- Novick, Abraham, Brooklyn, and E. Fish, New York, assignors to F. L. Smithe, New York, N. Y. Gage. No. 1,394,336; Oct. 18.
- Novinsky, Stanley, Braznell, Pa. Comb and brush. No. 1,389,210; Aug. 30; v. 289; p. 879.
- Novotney, Frank J., Kansas City, Mo. Bellows-box. No. 1,388,293; Aug. 23; v. 289; p. 643.
- Novotny, Emil E., assignor to J. S. Stokes, Philadelphia, Pa. Composition material. No. 1,370,666; Mar. 8; v. 284; p. 218.
- Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Making printing-plate matrices or molds, &c. No. 1,377,501; May 10; v. 286; p. 271.
- Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Composite sheet. No. 1,377,502; May 10; v. 286; p. 272.
- Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Printing-plate. No. 1,377,503; May 10; v. 286; p. 272.
- Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Electrotpe printing-plate. No. 1,377,504; May 10; v. 286; p. 272.
- Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Rubber-faced printing-plate. No. 1,377,505; May 10; v. 286; p. 272.
- Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Metallic-backed printing-plate. No. 1,377,506; May 10; v. 286; p. 272.
- Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Embossing-die. No. 1,377,507; May 10; v. 286; p. 272.
- Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Composite plate. No. 1,377,508; May 10; v. 286; p. 272.
- Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Printing-plate. No. 1,377,509; May 10; v. 286; p. 72.
- Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Matrix. No. 1,377,510; May 10; v. 286; p. 273.
- Novotny, Emil E., Riverside, Ill., assignor to J. S. Stokes, Moorestown, N. J. Printing-plate registration. No. 1,377,511; May 10; v. 286; p. 273.
- Novotny, Emil E., Philadelphia, Pa. Composite sheet for making matrices. No. 1,377,512; May 10; v. 286; p. 273.
- Novotny, Emil E., Philadelphia, Pa., assignor to J. S. Stokes, Moorestown, N. J. Printing-plate matrix. No. 1,377,513; May 10; v. 286; p. 273.
- Novotny, Emil E., Philadelphia, Pa., assignor to J. S. Stokes, Moorestown, N. J. Printing-plate. No. 1,377,514; May 10; v. 286; p. 273.
- Novotny, Emil E., Philadelphia, Pa., assignor to J. S. Stokes, Moorestown, N. J. Rectification of printing-plates. No. 1,377,515; May 10; v. 286; p. 273.
- Novotny, Emil E., Philadelphia, Pa., assignor to J. S. Stokes, Moorestown, N. J. Manufacture of printing-plates. No. 1,377,516; May 10; v. 286; p. 273.
- Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Method of and apparatus for molding plastic articles. No. 1,377,517; May 10; v. 286; p. 274.
- Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate. No. 1,377,518; May 10; v. 286; p. 274.
- Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate. No. 1,377,519; May 10; v. 286; p. 274.
- Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Gage for making printing equipment. No. 1,387,502; Aug. 16; v. 289; p. 490.
- Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate matrix and making same. No. 1,398,142; Nov. 22.
- Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Moldable composition and making same. No. 1,398,143; Nov. 22.
- Novotny, Emil E., assignor to J. S. Stokes, Logan, Philadelphia, Pa. Manufacture of sound-records. No. 1,398,144; Nov. 22.
- Novotny, Emil E., assignor to J. S. Stokes, Philadelphia, Pa. Sound-record. No. 1,398,145; Nov. 22.
- Novotny, Emil E., Logan, Pa., and D. S. Kendall, Glen Ridge, N. J., assignors to J. S. Stokes, Philadelphia, Pa. Synthetic resin composition. No. 1,398,146; Nov. 22.
- Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Moldable composite body. No. 1,398,147; Nov. 22.
- Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Sound-record. No. 1,398,148; Nov. 22.
- Novotny, Emil E., Logan, Philadelphia, assignor to J. S. Stokes, Philadelphia, Pa. Molding articles. No. 1,398,149; Nov. 22.
- Novotny, Emil E., assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate and matrix. No. 1,401,633; Dec. 27.
- Nowack, Charles H., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Grease-gun. No. 1,368,349; Feb. 15; v. 283; p. 392.
- Nowack, Charles H., Chicago, Ill., assignor to American Can Company, New York, N. Y. Hinge-cover box. No. 1,385,575; July 26; v. 288; p. 685.
- Nowack, Charles H., Chicago, Ill., assignor to American Can Company, New York, N. Y. Container. No. 1,393,815; Oct. 18.
- Nowak, Alexander, assignor of one-half to J. G. Pimpell, Douglas, Ariz. Refrigerator. No. 1,396,457; Nov. 8.
- Nowak, Frank, assignor of one-third to S. N. Pond, Chicago, Ill. Indian-club. No. 1,399,071; Dec. 6.
- Nowak, Maximilian, Roselle, N. J. Measuring-tool. No. 1,367,423; Feb. 1; v. 283; p. 108.
- Nowell, Herbert T., New Rochelle, N. Y. Making artificial fur. No. 1,371,804; Mar. 15; v. 284; p. 501.
- Nowlin, Aubrey C., Sherman, Tex. Sign. No. 1,382,311; June 21; v. 287; p. 487.
- Noyes Comb Company. (See Noyes, Thomas M., assignor.)
- Noyes, Thomas M., assignor to Noyes Comb Company, Binghamton, N. Y. Comb. No. 1,396,275; Nov. 8.
- Nucera, Lewis A., Buffalo, N. Y. Resilient wheel. No. 1,388,820; Aug. 23; v. 289; p. 746.
- Nugent, William W., Chicago, Ill. Combined filter and water separator. No. 1,383,479; July 5; v. 288; p. 46.
- Nugget Polish Co., The. (See Blanks, Albert, assignor.)
- Nullett, Harry J., Memphis, Tenn. Salt-vapor cabinet. No. 1,375,602; Apr. 19; v. 285; p. 532.
- Nungesser, Philip P., Cleveland Heights, Ohio, assignor to National Carbon Company, Inc. Brush connection. No. 1,372,366; Mar. 22; v. 284; p. 665.
- Nungester Hot Water Electric Incubator Company. (See Nungester, James L., assignor.)
- Nungester, James L., Pocatello, Idaho, assignor to Nungester Hot Water Electric Incubator Company. Hot-water electric incubator. No. 1,385,886; July 26; v. 288; p. 748.
- Nunns, John R., Waterbury, Conn. Holder. No. 1,376,571; May 3; v. 286; p. 36.
- Nurmi, Henry V. (See Tukkainen, Andrew, assignor.)
- Nusbaum, Joseph, assignor to P. E. Sharples Company, Philadelphia, Pa. Packaging and sealing perishable articles and the product thereof. No. 1,399,270; Dec. 6.
- Nuss, Adolph J., Williamsport, Pa. Swing-hanger. No. 1,373,259; Mar. 29; v. 284; p. 881.
- Nuss, Adolph J., and F. A. Parker, Williamsport, Pa. Filling and testing device. No. 1,399,868; Dec. 13.
- Nussbaum, George B., New Philadelphia, Ohio. Trolley. No. 1,378,554; May 17; v. 286; p. 524.
- Nutry, John, Ridgewood, N. J. Lock for banks and the like. No. 1,369,123; Feb. 22; v. 283; p. 582.
- Nutt, Norman W., Trenton, N. J. Incandescent-electric-lamp socket. No. 1,366,699; Jan. 25; v. 282; p. 643.
- Nutt, Norman W., Trenton, N. J. Electric switch. No. 1,366,700; Jan. 25; v. 282; p. 643.
- Nutt, Norman W., Trenton, N. J. Electric switch. No. 1,366,701; Jan. 25; v. 282; p. 643.
- Nutt, Norman W., Trenton, N. J. Incandescent-electric-lamp socket. No. 1,366,702; Jan. 25; v. 282; p. 643.
- Nuttall, R. D. Company. (See Rupert, Milton, assignor.)
- Nutter, Theodore V., Seattle, Wash. Portable hand-windlass. No. 1,386,582; Aug. 2; v. 289; p. 120.
- Nutting, Charles E., assignor to Draper Corporation, Hopedale, Mass. Filling-end catcher for looms. No. 1,394,637; Oct. 25.
- Nutting, George F., San Francisco, Calif. Oiling system for engines. No. 1,394,782; Oct. 25.
- Nutting, William B., Portland, Oreg. Spark-arrester. No. 1,364,792; Jan. 4; v. 282; p. 144.
- Nutting, William B., Portland, Oreg. Spark-arrester. No. 1,364,793; Jan. 4; v. 282; p. 144.
- Nutwell, Goff N., Fresno, Calif. Can-opener. No. 1,393,639; Oct. 11.
- Nuubson, Ole C., Duluth, Minn. Oven. No. 1,399,149; Dec. 6.
- Nu-Way Milker Company. (See Oden, Henry C., assignor.)
- Nyberg, Albert F., Minneapolis, Minn. Egg-beater. No. 1,399,513; Dec. 6.



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- Nye, Frank H., Warsaw, Ind. Motor-vehicle attachment. No. 1,400,971; Dec. 20.
- Nye, Harry G. (See Fay, Joseph W., assignor.)
- Nye, Ralph D., Canton, Ohio. Electric furnace. No. 1,370,989; Mar. 8; v. 284; p. 280.
- Nye, Sherman G., assignor of one-half to D. B. Simon and one-fourth to I. Mann, Denver, Colo. Telegraphic indicator. No. 1,391,206; Sept. 20; v. 290; p. 486.
- Nygaard, Johan O., Christiania, Norway. Horseshoe-calk. No. 1,391,490; Sept. 20; v. 290; p. 543.
- Nygreen, Theodore W., assignor of one-fourth to John Walker, Bellingham, Wash. Carrier apparatus. No. 1,364,404; Jan. 4; v. 282; p. 69.
- Nygren, Leander, Birmingham, Ala. Cabinet or furniture clamp. No. 1,369,533; Feb. 22; v. 283; p. 661.
- Nyhus, Martin, Ashland, Wis. Mattress. No. 1,375,061; Apr. 19; v. 285; p. 429.
- Nylund, Erik L., Detroit, Mich. Rail-joint. No. 1,297,107; Nov. 15.
- Nyman, John O., and J. P. Pearson, Canton, Ohio. Sheet-metal locker. No. 1,394,338; Oct. 18.
- Nymon, Wigo G., Fargo, N. D. Automobile-actuated pump. No. 1,391,968; Sept. 27; v. 290; p. 713.
- Nyquist, Harry, Tabor, N. J., assignor to American Telephone and Telegraph Company. Electrical measuring apparatus. No. 1,397,228; Nov. 15.
- Nystrom, A. J., and Company. (See Swanson, Frank H., assignor.)
- Nystrom, Karl F. (See Coleman, J. M., and Nystrom.)
- Nystrom, Samuel O., Harrison, N. J. Form-clamp for concrete columns. No. 1,383,332; July 5; v. 288; p. 15.
- O. & J. Machine Company, The. (See Johnson, J. E., and Oslund, assignors.)
- O. K. Giant Battery Corporation. (See Rabe, Paul B., assignor.)
- O. & W. Thum Company, The. (See Wagner, William J., assignor.)
- Oaka, Charles F., Lovettville, Alberta, Canada. Safety shot-firer. No. 1,377,915; May 10; v. 286; p. 351.
- Oakes, Archie, assignor to Square D Company, Detroit, Mich. Outside lock-off and center stop for electrical switches. No. 1,383,558; July 5; v. 288; p. 62.
- Oakes, Archie, assignor to Square D Company, Detroit, Mich. Electrical switch and producing the same. No. 1,399,364; Dec. 6.
- Oakes Co., The. (See Hoyt, George W., assignor.)
- Oakes Co., The. (See Richer, Chester S., assignor.)
- Oakes, Earle T., assignor, by mesne assignments, to National Biscuit Company, New York, N. Y. Casein-tung-oil product and producing the same. No. 1,380,494; June 7; v. 287; p. 32.
- Oakes, George W., Roseland, N. J. Soil-pulverizer. No. 1,374,465; Apr. 12; v. 285; p. 252.
- Oakes, James W. (See Behm, John, assignor.)
- Oakes, Lucian R., Tipton, Ind. Grain-sprouter. No. 1,392,021; Sept. 27; v. 290; p. 725.
- Oakes, Miles H. (See Brauser, O. H., and Oakes.)
- Oakley, Clifford H., Trenton, N. J. Method of and apparatus for making shoes. No. 1,365,267; Jan. 11; v. 282; p. 279.
- Oakley, George E., assignor to Consolidated Car-Heating Company, Albany, N. Y. Train-line system for cardoors. No. 1,396,775; Nov. 15.
- Oakley, John, Springfield, Mass. Broach. No. 1,366,094; Jan. 18; v. 282; p. 480.
- Oakley, John, Springfield, Mass., assignor to Baush Machine Tool Company. Production of connecting-rods and similar machine parts. No. 1,400,829; Dec. 20.
- Oasis Manufacturing Co. (See York, Edgar L., assignor.)
- Oates, Basil H. (See Hursey, William R., assignor.)
- Oates, Margaret E., Victoria, British Columbia, Canada. Fire-extinguisher. No. 1,389,527; Aug. 30; v. 289; p. 042.
- Oates, William, Jr., Lead, S. D. Cooling system. No. 1,398,199; Nov. 22.
- Oathout, Charles E. (See Curtis, A. R., and Oathout.)
- Oatley, Henry B., Flushing, assignor to The Superheater Company, New York, N. Y. Locomotive draft appliance. No. 1,392,976; Mar. 29; v. 284; p. 826.
- Obdyke, Benjamin P., Inc. (See Brown, J. W., and Hess, assignors.)
- Obenshain, Kyle D., McKinney, Tex. Oil-burner. No. 1,375,062; Apr. 19; v. 285; p. 429.
- Oberfell, George G., and A. M. Ballard, Tulsa, Okla. Gas-testing apparatus. No. 1,395,201; Oct. 25.
- Oberg, Carl L., *et al.* (See Arnesen, Charlotte, assignor.)
- Oberg, Gustaf. (See Osterberg, A. E., and Oberg.)
- Oberg, Ingeborg A., *et al.* (See Arnesen, Charlotte, assignor.)
- Oberhuber, Karl. (See Offerman, J. H., and Oberhuber.)
- Oberkirch, Frank. (See Thomas, William M., assignor.)
- Oberleitan, Joseph. (See Slobodzin, S., and Oberleitan.)
- Oberly, John L., Brooklyn, N. Y. Printing-press. No. 1,396,872; Nov. 15.
- Obermaier, John A. (See Frankel, M., Aisenstein, and Obermaier.)
- Obermaier, John A., Chicago, Ill. Relay. No. 1,376,633; May 3; v. 286; p. 48.
- Oberreich, Louie H., Indianapolis, Ind. Shock-absorber. No. 1,372,825; Mar. 29; v. 284; p. 795.
- Oberreich, Louie H., Indianapolis, Ind. Shock-absorber. No. 1,385,705; July 26; v. 288; p. 712.
- Oberst, Frank, Glendale, N. Y., assignor to Sonora Phonograph Corporation. Automatic stop. No. 1,392,077; Sept. 27; v. 290; p. 735.
- Oberst, Frank, Glendale, N. Y., assignor to Sonora Phonograph Corporation. Lid-support. No. 1,395,350; Nov. 1.
- Obici, Amedeo, Suffolk, Va. Paper container. No. 1,368,963; Feb. 15; v. 283; p. 511.
- Obie, Alfred F., Lisbon, Me. Moccasin. No. 1,389,376; Aug. 30; v. 289; p. 912.
- Obrecht, Louis, Mount Clemens, Mich. Spring-suspension attachment for motor-vehicles. No. 1,389,318; Aug. 30; v. 289; p. 900.
- O'Brien, Anna K., Auburndale, Mass. One-piece garment. No. 1,364,855; Jan. 4; v. 282; p. 155.
- O'Brien, Daniel M., Sayre, Pa. Ventilator for shoes. No. 1,392,350; Oct. 4.
- O'Brien, Daniel W., St. Paul, Minn. Game apparatus. No. 1,370,148; Mar. 1; v. 284; p. 74.
- O'Brien, Edward F., Somerville, Mass. Shoe-rack. No. 1,376,111; Apr. 26; v. 285; p. 662.
- O'Brien, Francis J. T., Los Angeles, Calif. Griddle. No. 1,391,268; Sept. 20; v. 290; p. 499.
- O'Brien, Francis J. T., Los Angeles, Calif. Griddle. No. 1,391,269; Sept. 20; v. 290; p. 499.
- O'Brien, Frank E., Troy, N. Y. Laundry-form. No. 1,400,763; Dec. 20.
- O'Brien, Frank M., Greensboro, N. C. Mop. No. 1,389,972; Sept. 6; v. 290; p. 83.
- O'Brien, Harry E., Indianapolis, Ind., assignor of one-half to H. B. Henton, Philadelphia, Pa. Mouthpiece for musical instruments. No. 1,401,634; Dec. 27.
- O'Brien, James B., Hartford, Wis. Bag-holder. No. 1,397,898; Nov. 22.
- O'Brien, John, Jr., Cheney, Nebr. Wrench. No. 1,370,351; Mar. 1; v. 284; p. 113.
- O'Brien, John J., Brooklyn, N. Y. Check-protector. No. 1,389,377; Aug. 30; v. 289; p. 913.
- O'Brien, Joseph F., *et al.* (See Wheeler, Leon H., assignor.)
- O'Brien, Joseph S., Westfield, Mass. Trolley-shoe. No. 1,367,920; Feb. 8; v. 283; p. 261.
- O'Brien, Thomas F. I., Brooklyn, N. Y. Timepiece-movement. No. 1,391,340; Sept. 20; v. 290; p. 513.
- O'Brien, William G., Akron, Ohio. Compounding rubber. No. 1,400,231; Dec. 13.
- Oca-Balda, José A., Bridgeport, Conn. Electric iron. No. 1,365,186; Jan. 11; v. 282; p. 263.
- Oca-Balda, José A., New York, N. Y. Electric iron. No. 1,366,480; Jan. 25; v. 282; p. 599.
- Oca-Balda, José A., New York, N. Y. Time-controlled starting and stopping mechanism. No. 1,368,828; Feb. 15; v. 283; p. 485.
- Oca-Balda, José A., New York, N. Y. Electric-heating system. No. 1,369,702; Feb. 22; v. 283; p. 694.
- Oca-Balda, José A., New York, N. Y. Time-controlled electric heater. No. 1,371,184; Mar. 8; v. 284; p. 316.
- Oca-Balda, José A., and G. A. De Langie, New York, N. Y. Electric iron. No. 1,386,525; Aug. 2; v. 289; p. 109.
- Ocampo, Carlos J., Los Angeles, Calif. Sheet-metal fastener. No. 1,399,315; Dec. 6.
- Ocean Bond Co. (See Rogers, Allen, assignor.)
- Oceanic Salvage Corporation. (See Marr, Arthur P., assignor.)
- Ochoa, Maria, New York, N. Y. Camera. No. 1,377,916; May 10; v. 286; p. 357.
- Ochsner, Jacob, Zurich, Switzerland. Device for the removal of refuse. No. 1,373,756; Apr. 5; v. 285; p. 72.
- Ockerman, Charles F., Springfield, Mo. Tire-armor. No. 1,371,927; Mar. 15; v. 284; p. 524.
- O'Connell, Bernard W., Minneapolis, and D. O'Connell, Glen Lake, Minn. Plastic waterproof covering for roofs, &c. No. 1,370,990; Mar. 8; v. 284; p. 280.
- O'Connell, Daniel C., *et al.* (See Spirewka, John S., Jr., assignor.)
- O'Connell, Dennis. (See O'Connell, Bernard W. and D.)
- O'Connell, James E., *et al.* (See Spirewka, John S., Jr., assignor.)
- O'Connor, Albert, Detroit, Mich. Nut-lock. No. 1,379,415; May 24; v. 286; p. 761.
- O'Connor, Arthur P., Denver, Colo. Ladder attachment. No. 1,376,777; May 3; v. 286; p. 75.
- O'Connor, Daniel J., C. A. Nelson, and C. Nahabed, New York, N. Y., assignors to Twisted Wire & Steel Co. Wire-stretcher. No. 1,400,093; Dec. 13.
- O'Connor, Frank M., Mason City, Iowa. Store-fixture. No. 1,389,973; Sept. 6; v. 290; p. 83.
- O'Connor, James, New York, N. Y. Labeling-machine. No. 1,394,339; Oct. 18.
- O'Connor, John, New York, N. Y. Soft-collar holder. No. 1,369,703; Feb. 22; v. 283; p. 694.
- O'Connor, John, New York, N. Y. Soft-collar holder. No. 1,381,733; June 14; v. 287; p. 320.
- O'Connor, John B., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Shelving. No. 1,366,743; Jan. 25; v. 282; p. 652.
- O'Connor, John B., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. Shelving. No. 1,375,855; Apr. 26; v. 285; p. 612.
- O'Connor, John F. (See Miner, W. H., and O'Connor.)
- O'Connor, John F., Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Tandem draft-gear yoke for railway-cars. No. 1,364,510; Jan. 4; v. 282; p. 91.



*Alphabetical list of patentees—Continued.*

- O'Connor, John F., Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,364,511; Jan. 4; v. 282; p. 91.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-yoke for railway-car draft-rigging. No. 1,364,794; Jan. 4; v. 282; p. 144.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Yoke for railway-car draft-rigging. No. 1,364,795; Jan. 4; v. 282; p. 144.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake for railway-cars. No. 1,366,676; Jan. 25; v. 282; p. 638.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake. No. 1,369,534; Feb. 22; v. 283; p. 661.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Yoke. No. 1,369,535; Feb. 22; v. 283; p. 661.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Draft-rigging for railway-cars. No. 1,369,536; Feb. 22; v. 283; p. 661.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction-gear casing. No. 1,372,716; Mar. 29; v. 284; p. 773.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,372,717; Mar. 29; v. 284; p. 773.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Safety device for car-door-operating mechanisms. No. 1,372,718; Mar. 29; v. 284; p. 773.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Safety device for car-door-operating mechanisms. No. 1,372,719; Mar. 29; v. 284; p. 773.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Safety door-operating mechanism. No. 1,372,720; Mar. 29; v. 284; p. 774.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Roller-bearing. No. 1,372,721; Mar. 29; v. 284; p. 774.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,374,671; Apr. 12; v. 285; p. 291.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,374,672; Apr. 12; v. 285; p. 292.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Safety device for car-door-operating mechanisms. No. 1,374,673; Apr. 12; v. 285; p. 292.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,374,674; Apr. 12; v. 285; p. 292.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,374,675; Apr. 12; v. 285; p. 292.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway draft-rigging. No. 1,374,676; Apr. 12; v. 285; p. 292.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction draft-rigging. No. 1,374,677; Apr. 12; v. 285; p. 293.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock-absorber. No. 1,378,974; May 24; v. 286; p. 677.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake for railway box-cars. No. 1,378,975; May 24; v. 286; p. 678.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Tandem draft-gear for railway-cars. No. 1,382,221; June 21; v. 287; p. 470.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,382,222; June 21; v. 287; p. 470.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake for railway-cars. No. 1,383,333; July 5; v. 288; p. 15.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,386,795; Aug. 9; v. 289; p. 237.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Coupling-release mechanism. No. 1,386,796; Aug. 9; v. 289; p. 237.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Coupling-release mechanism. No. 1,386,797; Aug. 9; v. 289; p. 237.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway draft-rigging. No. 1,391,068; Sept. 20; v. 290; p. 458.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway draft-rigging. No. 1,391,069; Sept. 20; v. 290; p. 458.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,391,070; Sept. 20; v. 290; p. 458.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,395,351; Nov. 1.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,395,352; Nov. 1.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,397,229; Nov. 15.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake. No. 1,397,230; Nov. 15.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,398,037; Nov. 22.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction draft-gear for railway-cars. No. 1,398,704; Nov. 29.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,398,705; Nov. 29.
- O'Connor, Michael J., Bloomington, N. J. Vehicle-wheel. No. 1,378,823; May 17; v. 286; p. 576.
- O'Connor, Peter J., Poughkeepsie, N. Y., assignor to Moline Plow Company. Tractor connection for agricultural implements. No. 1,399,072; Dec. 6.
- O'Connor, Thomas W., Brooklyn, N. Y. Frame. No. 1,376,222; Apr. 26; v. 285; p. 682.
- Oda, Peter, Arcanum, Ohio. Threshing-machine. No. 1,374,518; Apr. 12; v. 285; p. 262.
- Oda, Peter, near Arcanum, Ohio. Band-cutter and feeder for threshing-machines. No. 1,399,271; Dec. 6.
- O'Daniel, Uriah V., Greencastle, Ind. Automobile-radiator heater. No. 1,391,270; Sept. 20; v. 29; p. 499.
- Odelberg, Axel S. W., assignor to Aktiebolaget Gustafsborgs Fabriks Inkensetter, Gustafsberg, Sweden. Machinery for the molding of pottery. No. 1,377,785; May 10; v. 286; p. 326.
- Odell, George W., Montreal, Quebec, Canada. Time and value card. No. 1,385,576; July 26; v. 288; p. 685.
- Odell, Risdon M., Decatur, Ill. Egg-carton. No. 1,397,539; Nov. 22.
- Odell, Risdon M., Decatur, Ill. Receptacle and carrier for eggs. No. 1,397,540; Nov. 22.
- Odell, William W., Urbana, Ill. Manufacturing water-gas. No. 1,379,038; May 24; v. 286; p. 690.
- Oden, Henry C., Columbus, Ohio, assignor to Nu-Way Milker Company, Inc., Syracuse, N. Y. Claw structure for milking-machines. No. 1,385,577; July 26; v. 288; p. 686.
- Odhner, Valentin J., Stockholm, Sweden. Calculating-machine. No. 1,371,185; Mar. 8; v. 284; p. 316.
- Odhner, Valentin J., Gottenborg, Sweden. Carriage-shifting device for calculators. No. 1,373,524; Apr. 5; v. 285; p. 29.
- Odhner, Valentin J., Stockholm, Sweden. Transfer mechanism of calculating-machines. No. 1,377,269; May 10; v. 286; p. 226.
- Odhner, Valentin J., Gottenborg, Sweden. Calculating-machine. No. 1,377,270; May 10; v. 286; p. 226.
- Odhner, Valentin J., Stockholm, Sweden. Calculating-machine. No. 1,387,608; Aug. 16; v. 289; p. 450.
- Odhner, Valentin J., Turisthotellet, Hindås, Sweden. Supporting means of the ten-pin, hundred-pin, &c., of the calculating-wheels in calculating-machines. No. 1,388,746; Aug. 23; v. 289; p. 732.
- Odhner, Valentin J., Stockholm, Sweden. Locking device in calculating-machines. No. 1,392,847; Oct. 4.
- Odhner, Valentin J., Gottenborg, Sweden. Arresting means for the shifting-cranks of calculating-machines. No. 1,399,645; Dec. 6.
- Odle, Leo E. (See Odle, Ophelia and L. E.)
- Odle, Ophelia and L. E., Waco, Tex. Plaiting-machine. No. 1,387,658; Aug. 16; v. 289; p. 460.
- Odmark, August E., Muskegon, Mich. Collapsible square. No. 1,377,917; May 10; v. 286; p. 352.
- Odum, Blaine W., Dallas, Tex. Fountain-pen-blotting attachment. No. 1,387,298; Aug. 9; v. 289; p. 336.
- Odom, Daniel E., Bennettsville, S. C. Overwinding-preventer. No. 1,395,592; Nov. 1.
- O'Donnell, Edward L., St. Louis, Mo. Music-case. No. 1,391,491; Sept. 20; v. 290; p. 543.
- O'Donnell, Thomas, Ironwood, Mich. Cluster lamp-socket. No. 1,391,904; Sept. 27; v. 290; p. 700.
- Odorfer, John. (See Kruse, F., and Odorfer.)
- Odquist, Victor, Yonkers, assignor to American Can Company, New York, N. Y. Safety-shield for can-caps. No. 1,385,578; July 26; v. 288; p. 686.
- Oe, Eiichiro. (See Shibata, T., and Oe.)
- Oehler, Max, Bellevue, Idaho. Meat-chopper. No. 1,368,964; Feb. 15; v. 283; p. 511.
- Oehm, William N., Michigan City, Ind. Carline. No. 1,383,841; July 5; v. 288; p. 121.
- Oehm, William N., and G. Powell, Michigan City, Ind. Nailing-machine. No. 1,393,816; Oct. 18.
- Oelenschlager, John W., and V. B. Arkless, Norristown, Pa. Safety-gate for railway-crossings. No. 1,382,534; June 21; v. 287; p. 530.
- Oesterlein Machine Company, The. (See Blood, Louis H., assignor.)
- Oesterreichische Waffenfabriksgesellschaft. (See Duffek, Josef, assignor.)
- Oexman, August F. (See Kahre, John F., assignor.)
- Ofeldt, Frank W., assignor to Packard Motor Car Company, Detroit, Mich. Vibration-damping device. No. 1,377,849; May 10; v. 286; p. 338.
- Ofensend, Chase E., assignor to The Miller Rubber Company, Akron, Ohio. Building cord tires. No. 1,388,747; Aug. 23; v. 289; p. 732.
- Offen, George C., Moose Jaw, Saskatchewan, Canada. Aeroplane. No. 1,382,535; June 21; v. 287; p. 535.
- Offenhausser, Christopher, Philadelphia, Pa. Method of and apparatus for feeding fluids. No. 1,400,972; Dec. 20.



## Alphabetical list of patentees—Continued.

- Offenhäuser, Fritz, Tarrytown, N. Y. Forced articles and process and apparatus for making the same. No. 1,390,375; Sept. 13; v. 290; p. 255.
- Offerman, John H., and K. Oberhuber, New York, N. Y. Chair. No. 1,371,516; Mar. 15; v. 284; p. 445.
- Offerman, Louis. (See Levine, A., and Offerman.)
- Officer, Wyman L., Warren, Minn. Means for connecting flexible elements to drums. No. 1,388,662; Aug. 23; v. 289; p. 715.
- Officer, Wyman L., Warren, Minn. Rope-end head. No. 1,388,663; Aug. 23; v. 289; p. 716.
- Officer, Wyman L., Warren, Minn. Rope-end head. No. 1,388,664; Aug. 23; v. 289; p. 716.
- Off'n'On Chain Corporation. (See Ryan, Michael B., assignor.)
- Offset Directoplate Company. (See Koppe, Alexander T., assignor.)
- Offutt, Thomas M., assignor of one-fifth to E. H. Cushing, Connerville, Ind. Heating system. No. 1,381,490; June 14; v. 287; p. 273.
- Ogden, Arnold L., New York, N. Y. Fountain-pen. No. 1,367,624; Feb. 8; v. 283; p. 204.
- Ogden, Ashley G., assignor to Multiple Offset Machine Co., Baltimore, Md. Printing-machine. No. 1,388,968; Aug. 30; v. 289; p. 830.
- Ogden, Edward E., Hoquiam, Wash. Berry-box. No. 1,375,722; Apr. 26; v. 285; p. 587.
- Ogden, Ellsworth P. (See Owens, J. B., and Ogden.)
- Ogden, J. Edward. (See Kennedy, Joseph, assignor.)
- Ogden, J. Edward. (See Marshall, Ernest W., assignor.)
- Ogden, Jacob W., assignor, by mesne assignments, to Universal Stamping Machine Company, Stamford, Conn. Feed mechanism for machines for marking mail, &c. No. 1,381,589; June 14; v. 287; p. 292.
- Ogden, Jacob W., assignor to Pitney-Bowes Export Corporation, Stamford, Conn. Postage-meter and mail-marking machine. No. 1,390,156; Sept. 6; v. 290; p. 120.
- Ogden, John, Philadelphia, Pa. Sickie. No. 1,379,205; May 24; v. 286; p. 721.
- Ogden, John E., Cornwall, N. Y. Adjustable concrete-insert. No. 1,365,718; Jan. 18; v. 282; p. 406.
- Ogden, John E., Cornwall, N. Y. Machine-bolt anchor. No. 1,365,719; Jan. 18; v. 282; p. 406.
- Ogden, John E., Cornwall, N. Y. Bolt-anchor. No. 1,365,945; Jan. 18; v. 282; p. 451.
- Ogden, John E., Mountaineville, N. Y. Bolt-anchorage and forming same. No. 1,367,080; Feb. 1; v. 283; p. 39.
- Ogden, John E., Mountaineville, Cornwall, N. Y. Expansion-shield. No. 1,372,035; Mar. 22; v. 284; p. 602.
- Ogden, John E., Mountaineville, N. Y. Adjustable-link door. No. 1,378,127; May 17; v. 286; p. 444.
- Ogden, John E., Mountaineville, N. Y. Lag-screw expansion-shield. No. 1,400,405; Dec. 13.
- Ogden, Ward H., East Millcreek, Pa. Toy. No. 1,364,512; Jan. 4; v. 282; p. 91.
- Ogders, Ernest B. (See Hood, Lazarus S., assignor.)
- Ogilvie, John J., Ottawa, Ontario, Canada. Water-level indicator. No. 1,372,187; Mar. 22; v. 284; p. 630.
- Ogle, Frank, Philadelphia, Pa. Pressure-gage for pneumatic tires. No. 1,399,272; Dec. 6.
- Ogle, Thomas E., Kansas, Ill. Blower-fan. No. 1,364,796; Jan. 4; v. 282; p. 144.
- Oglesby, Richard A., assignor to Quick Action Ignition Company, South Bend, Ind. Automatic speed-governor for internal-combustion engines. No. 1,390,376; Sept. 13; v. 290; p. 255.
- O'Grady, Gerald D. (See Stonge, Harvey E., assignor.)
- Ogur, Eugene, Jersey City, N. J. Meter for measuring granular material. No. 1,398,790; Nov. 29.
- Ohanian, Garabed, assignor of one-half to H. Chekenian, Paterson, N. J. Hair-brush. No. 1,391,207; Sept. 20; v. 290; p. 486.
- O'Hanlon, James R., et al. (See Kitchen, John G. A., assignor.)
- O'Hanlon, Thomas, Co. Inc. (See Benjamin, Walter R., assignor.)
- O'Hara, Eliot, Waltham, Mass. Radium luminous article and producing same. No. 1,364,950; Jan. 11; v. 282; p. 218.
- O'Hara, Eliot, Waltham, Mass. Radium luminous article and producing same. No. 1,364,951; Jan. 11; v. 282; p. 219.
- Ohara, Tomosuke, Tokyo, Japan. Urinal. No. 1,379,206; May 24; v. 286; p. 721.
- Ohashi, Hydesaburo, & Co. (See Ohashi, Hydesaburo, assignor.)
- Ohashi, Hydesaburo, assignor to Hydesaburo Ohashi & Co., Inc., New York, N. Y. Coating-machine. No. 1,393,637; Oct. 11.
- Ohaver, William D., Judson, assignor to Montgomery Mfg. Company, Waveland, Ind. Hands for operating oil-level petcocks. No. 1,388,150; Aug. 16; v. 289; p. 557.
- Ohaver, William D., Judson, assignor to Montgomery Mfg. Company, Waveland, Ind. Dashboard-gage for gasoline-tanks. No. 1,388,151; Aug. 16; v. 289; p. 557.
- Ohde, George E., Milwaukee, Wis. Tray. No. 1,390,157; Sept. 6; v. 290; p. 120.
- Ohio Blower Company, The. (See Mastenbrook, H. J., and Lauritsen, assignors.)
- Ohio Body & Blower Company, The. (See Coakley, William E., assignor.)
- Ohio Body & Blower Company, The. (See Lauritsen, Charles C., assignor.)
- Ohio Body & Blower Company, The. (See McGeorge, John, assignor.)
- Ohio Brass Company, The. (See Bovard, William P., assignor.)
- Ohio Brass Company. (See Brown, John R., assignor.)
- Ohio Brass Company, The. (See Darrah, W. A., and Averill, assignors.)
- Ohio Brass Company, The. (See Henry, Georges E., assignor.)
- Ohio Brass Company, The. (See Hunzicker, Walter W., assignor.)
- Ohio Brass Company, The. (See Klohs, Frank A., assignor.)
- Ohio Brass Company, The. (See Linderman, Harry V., assignor.)
- Ohio Brass Company, The. (See Mathes, Samuel S., assignor.)
- Ohio Brass Company, The. (See Starkey, William C., assignor.)
- Ohio Cultivator Company, The. (See Griffith, Richard H., assignor.)
- Ohio Fuel Supply Company, The. (See Koch, G. T., and Stallkamp, assignors.)
- Ohio Match Company, The. (See Parker, Lucian E., assignor.)
- Ohio Trailer Company, The. (See Ferris, William E., assignor.)
- Ohio Tractor Company, The. (See Zuhars, B. C., and Clarke, assignors.)
- Ohio Truss Co., The. (See Pease, Benjamin F., assignor.)
- Ohlheiser, Paul V., Lincoln, Neb. Automobile-chain-hook holder. No. 1,366,481; Jan. 2; v. 282; p. 600.
- Ohlson, Olof, Newton, assignor to Waltham Watch Company, Waltham, Mass. Wall-clock. No. 1,379,713; May 31; v. 286; p. 891.
- Ohlsson, Johan A., Stockholm, Sweden. Ball or roller bearing. No. 1,375,313; Apr. 19; v. 285; p. 477.
- Ohlsson, Johan A., assignor to Klosters Aktie Bolag, Stockholm, Sweden. Ball-bearing. No. 1,387,609; Aug. 16; v. 289; p. 450.
- Ohlsson, Olof, Södertelje, Sweden. Valve of the annular type. No. 1,383,842; July 5; v. 288; p. 121.
- Ohme, Walter F., Minneapolis, Minn. Collapsible holding device. No. 1,382,115; June 21; v. 287; p. 450.
- Ohmer, John F., Jr. (See Ohmer, John F. and J. F., Jr.)
- Ohmer, John F. and J. F., Jr., Dayton, Ohio. Clock-winding mechanism. No. 1,367,712; Feb. 8; v. 283; p. 222.
- Ohmer, W. I. (See Ries, Kurt F., assignor.)
- Ohnell, Ernst J. (See Ohovsky, Vladimir, assignor.)
- Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Ledger or filing desk. No. 1,372,536; v. 284; p. 697.
- Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Label-holder. No. 1,370,725; May 3; v. 286; p. 65.
- Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Sheet-metal curtain. No. 1,378,976; May 24; v. 286; p. 678.
- Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Filing cabinet or tray. No. 1,381,491; June 14; v. 287; p. 273.
- Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Sectional filing-case. No. 1,390,377; Sept. 13; v. 290; p. 255.
- Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Extension drawer-slide. No. 1,391,004; Sept. 20; v. 290; p. 444.
- Ohrenstein, Valérie D., Elmhurst, Ill. Infant's garment. No. 1,394,213; Oct. 18.
- Öhrström, Vilhelm, assignor to Aktiebolaget Laurin & Perkel, Stockholm, Sweden. Permutation-padlock. No. 1,375,603; Apr. 19; v. 285; p. 532.
- Ohrvall, Oscar, New York, N. Y. Foam or froth dissipator. No. 1,389,101; Aug. 30; v. 289; p. 857.
- Oie, Gustav. (See Larson, Alfred, assignor.)
- Öjerholm, Ludwig O., Eskilstuna, Sweden. Thimble attachment. No. 1,379,777; May 31; v. 286; p. 903.
- Oil-Fuel Heat and Power Co. (See Newcomb, Maron W., assignor.)
- Oil Gas Producer Company, The. (See West, E. A., and Parsons, assignors.)
- Oil Well Supply Company. (See Mack, Patrick H., assignor.)
- Oishei, John R., Buffalo, N. Y. Adjustable support or bracket. No. 1,394,440; Oct. 18.
- Oishei, John R., Buffalo, N. Y. Protecting appliance for use on automobiles. No. 1,400,623; Dec. 20.
- Oiver, Walter E. (See Shoup, W. C., and Oliver.)
- Okadee Company, The. (See Rickerton, William E., assignor.) (Reissue.)
- O'Kane, Walter C., Durham, N. H. Box-holder. No. 1,375,856; Apr. 26; v. 285; p. 612.
- Okay Motor Manufacturing Company. (See Bates, Ralph E., assignor.)
- O'Keefe, Daniel P., Los Angeles, Calif. Luggage-carrier. No. 1,385,640; July 26; v. 288; p. 699.



*Alphabetical list of patentees—Continued.*

- O'Keefe, John J., Kensington, near Sydney, New South Wales, assignor of one-half to F. H. Pilcher, Kensington, New South Wales, Australia. Footprint-spanner. No. 1,387,659; Aug. 16; v. 289; p. 460.
- Okell, James H., assignor to Okell Well Machinery Company, Los Angeles, Calif. Rotary table. No. 1,382,536; June 21; v. 287; p. 531.
- Okell, James H., assignor to Okell Well Machinery Company, Los Angeles, Calif. Pitman construction. No. 1,395,971; Nov. 1.
- Okell Well Machinery Company. (See Okell, James H., assignor.)
- Okey, George W., Des Moines, Iowa. Pneumatic and cushion tire. No. 1,390,057; Sept. 6; v. 290; p. 101.
- Okey, Perry, Columbus, Ohio. Beveling-machine. No. 1,370,991; Mar. 8; v. 284; p. 280.
- Oknitz, Carl B., Elkhart, Ind. Hay-tedder. No. 1,377,271; May 10; v. 286; p. 226.
- Okniński, John M., Newark, N. J. Hinge. No. 1,395,593; Nov. 1.
- Okonite Company, The. (See Hendey, Frederick H., assignor.)
- Oksenholt, Jens N. (See Texada, D. K., and Oksenholt.)
- Okun, Morris B., assignor to A. Murphy, Chicago, Ill. Bed. No. 1,367,713; Feb. 8; v. 283; p. 222.
- Olaf, Zimmond J., Malvern, Pa. Carbon-remover. No. 1,368,965; Feb. 15; v. 283; p. 511.
- Oland, Charley D., Centralia, Ill. Emergency wheel-skid. No. 1,375,063; Apr. 19; v. 285; p. 429.
- Olander, Alden C., Billings, Mont. Tire-protector. No. 1,388,748; Aug. 23; v. 289; p. 732.
- Olbon, John A., Paterson, N. J. Guide for winding-machines. No. 1,381,492; June 14; v. 287; p. 273.
- Olbon, John A., Paterson, N. J. Guide for quill-winders. No. 1,388,595; Aug. 23; v. 289; p. 702.
- Olbon, John A., Paterson, assignor to Auto Safety Device Company, Union, N. J. Automobile steering-post lock. No. 1,366,021; Jan. 18; v. 282; p. 456.
- Olbon, John A., Paterson, assignor to Auto Safety Device Company, Union, N. J. Rocking-chair. No. 1,380,241; May 31; v. 286; p. 990.
- Olcott, Charles A., assignor to S. S. Hepworth Company, New York, N. Y. Water-wheel. No. 1,373,260; Mar. 29; v. 284; p. 882.
- Olcott, Walter, South Manchester, Conn. Corn-creamers. No. 1,401,635; Dec. 27.
- Oldbury Electro-Chemical Company. (See Stamps, Frederick A., assignor.)
- Oldendorf, William, Rushford, Minn. Tractor-guide. No. 1,388,057; Aug. 16; v. 289; p. 539.
- Oldermatt, Clarence W., San Francisco, Calif. Packing-table. No. 1,395,727; Nov. 1.
- Oldham, Edward L., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Drill-sharpener. No. 1,394,214; Oct. 18.
- Oldham, Edward L., and J. L. Barra, assignors to The Denver Rock Drill Manufacturing Company, Denver, Colo. Apparatus for blowing bores of rock-drill steels. No. 1,395,202; Oct. 25.
- Oldham, E. Bert, Auburn, Me. Wrapper. No. 1,381,425; June 14; v. 287; p. 261.
- Oldham, Zack G., Urbana, Ill. Boxing-glove cover. No. 1,401,722; Dec. 27.
- Oldroyd, Cyrus S., Knoxville, Tenn. Mining-machine. No. 1,365,598; Jan. 11; v. 282; p. 344.
- Oldroyd, Cyrus S., Cincinnati, Ohio. Railway-track and rail for the same. No. 1,391,574; Sept. 20; v. 290; p. 561.
- Olds, Alfred W., Windsor, Conn. Electric switch for operating automobile speed-signals. No. 1,394,111; Oct. 18.
- Olds, Jeremiah S., Huntington Park, Calif. Heater. No. 1,371,390; Mar. 15; v. 284; p. 420.
- Olds, Ransom E., Lansing, Mich. Tractor. No. 1,368,283; Feb. 15; v. 283; p. 379.
- O'Leary, Edward J., Minneapolis, assignor of one-half to F. A. Thurston and one-half to H. Junge, St. Paul, Minn. Milking apparatus. No. 1,387,510; Aug. 16; v. 289; p. 430.
- O'Leary, Marguerite V. (See McDonald, Leslie R., assignor.)
- O'Leary, Marguerite V. (See O'Leary, William J., assignor.)
- O'Leary, Marguerite V. (See Ramsey, George, assignor.)
- O'Leary, Timothy. (See Johnston, William G., assignor.)
- O'Leary, William, Belvedere College, Dublin, Ireland. Clock. No. 1,365,537; Jan. 11; v. 282; p. 331.
- O'Leary, William J. (See McDonald, Leslie R., assignor.)
- O'Leary, William J., assignor to M. V. O'Leary, Montreal, Quebec, Canada. Clutch for motors and the like. No. 1,395,289; Nov. 1.
- Oler, Benjamin F., Woodbury Heights, N. J. Adjustable resistance unit. No. 1,371,049; Mar. 8; v. 284; p. 291.
- Oleson, Rangval. (See Thompson, Emil, assignor.)
- Olevin, Adolph, Detroit, Mich. Loom-plate and hanger. No. 1,390,921; Sept. 13; v. 290; p. 366.
- Olhovskiy, Vladimir, New York, assignor to E. J. Ohnell, Brooklyn, N. Y. Aeroplane. No. 1,365,339; Jan. 11; v. 282; p. 293.
- Olin, Fred C., assignor to Olin Gas Engine Company, Buffalo, N. Y. Tractor. No. 1,366,413; Jan. 25; v. 282; p. 585.
- Olin Gas Engine Company. (See Olin, Fred C., assignor.)
- Olin, Gustaf A., Worcester, Mass. Chuck. No. 1,389,974; Sept. 6; v. 290; p. 84.
- Olinger, Jacob M., Springfield, Ohio. Electrical collector. No. 1,375,412; Apr. 19; v. 285; p. 496.
- Olinger, Thomas. (See Somers, R. L., and Olinger.)
- Olinger, Thomas, Holland, Mich. Pulley construction. No. 1,372,900; Mar. 29; v. 284; p. 811.
- Olinger, Thomas, assignor to Holland Lighting and Specialty Co., Holland, Mich. Animal-stock. No. 1,394,783; Oct. 25.
- Olinger, Thomas, assignor to Federal Stamping Company, Holland, Mich. Damper construction. No. 1,398,038; Nov. 22.
- Olinger, Thomas, assignor to Federal Stamping Company, Holland, Mich. Furnace-register. No. 1,399,985; Dec. 13.
- Olinger, Thomas, and J. De Glopper, assignors to Federal Stamping Company, Holland, Mich. Furnace-damper regulator. No. 1,399,984; Dec. 13.
- Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. No. 1,375,656; Apr. 19; v. 285; p. 542.
- Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Air-lift system. No. 1,385,706; July 26; v. 288; p. 712.
- Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Air-lift system. No. 1,385,707; July 26; v. 288; p. 712.
- Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Air-lift booster. No. 1,385,708; July 26; v. 288; p. 713.
- Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Booster. No. 1,401,946; Dec. 27.
- Olivarias, Holger de P., San Francisco, Calif. Recovering materials from molasses. No. 1,401,433; Dec. 27.
- Oliver, Oliver H., Idaho Falls, Idaho. Boat-propeller. No. 1,366,825; Jan. 25; v. 282; p. 668.
- Oliver, Albert, New York, N. Y. Plaster-ground. No. 1,385,466; July 26; v. 288; p. 663.
- Oliver, Albert L., assignor to California Cap Company, Oakland, Calif. Electric blasting-cap. No. 1,378,269; May 17; v. 286; p. 470.
- Oliver, Alfred S., Medical Lake, Wash. Refrigerator. No. 1,370,907; Mar. 8; v. 284; p. 263.
- Oliver, Castagnola, Brooklyn, N. Y. Pedimeter. No. 1,375,969; Apr. 26; v. 285; p. 634.
- Oliver Chilled Plow Works. (See Altgelt, Herman E., assignor.)
- Oliver Chilled Plow Works. (See Altgelt, Rudolph J., assignor.)
- Oliver Chilled Plow Works. (See Gallagher, Arthur D., assignor.)
- Oliver Chilled Plow Works. (See Heylman, E. M., and Gallagher, assignors.)
- Oliver Chilled Plow Works. (See Heylman, E. M., Kingsbury, and Stickley, assignors.)
- Oliver Chilled Plow Works. (See Heylman, Edward M., assignor.)
- Oliver Chilled Plow Works. (See Paul, William L., assignor.)
- Oliver, Edd C., Adrian, Mich. Pulley. No. 1,380,495; June 7; v. 287; p. 32.
- Oliver, Elmer, Daytona, Fla. Demountable rim. No. 1,372,537; Mar. 22; v. 284; p. 697.
- Oliver, Frederick R., Kansas City, Mo. Faucet. No. 1,370,759; Mar. 8; v. 284; p. 236.
- Oliver, John W., New York, N. Y. Thread guide and support. No. 1,387,299; Aug. 9; v. 289; p. 336.
- Oliver, John W., New York, N. Y., and H. Brucker, Newark, N. J. Thread guide and support. No. 1,387,300; Aug. 9; v. 289; p. 337.
- Oliver, Joseph W., Grand Rapids, Mich. Rotatable tool-carrier for planing-machines, &c. No. 1,397,014; Nov. 15.
- Oliver Machinery Company. (See Kurkjian, Armen S., assignor.)
- Oliver, Melfort V. W., Toronto, Ontario, Canada. Seeder. No. 1,371,517; Mar. 15; v. 284; p. 446.
- Oliver, Paul R., Akron, Ohio. Fuse-holder. No. 1,380,242; May 31; v. 286; p. 991.
- Oliver, Robert L., Dorris, Calif. Potato digging and cleaning apparatus. No. 1,367,424; Feb. 1; v. 283; p. 108.
- Oliver, Samuel E., Vancouver, British Columbia, Canada. Apparatus for collecting oleoresin. No. 1,379,358; May 24; v. 286; p. 751.
- Oliver, Stacy, Chicopee Falls, Mass. Automatic pistol. No. 1,381,590; June 14; v. 287; p. 292.
- Oliver, Stacy, Hartford, Conn. Automatic rifle. No. 1,383,658; July 5; v. 288; p. 83.
- Oliver, Walter E. (See Shoup, W. C., and Oliver.)
- Olivier, Charles F., Sherbrooke, Quebec, Canada. Scrubbing-brush. No. 1,385,264; July 19; v. 288; p. 545.
- Olivier, Nicolas, Lyon, France. Parallel vise. No. 1,383,966; July 5; v. 288; p. 146.
- Olkowski, Frank, Three Lakes, Wis. Mechanical toy. No. 1,393,638; Oct. 11.
- Ollard, James C., Williamsport, Pa. Friction-clutch. No. 1,371,391; Mar. 15; v. 284; p. 421.
- Ollard, James C., Tacoma, Wash. Machine for straightening bent pipes, rods, &c. No. 1,400,764; Dec. 20.
- Oller, Andy R., Beaver Dam, Ky. Tractor. No. 1,374,763; Apr. 12; v. 285; p. 309.



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- Ollesheimer, Theodore H., Rockford, Ill. Sample-holder. No. 1,395,005; Oct. 25.
- Olliffe, Clarence E. O., Leichhardt, near Sydney, New South Wales, Australia. Telephone-transmitter mouth-piece. No. 1,365,268; Jan. 11; v. 282; p. 280.
- Ollivier, Jocelyn E., La Vignette, St. Gervais les Bains, France. Propeller mechanism. No. 1,393,157; Oct. 11.
- Ollivier, Jocelyn E., St. Gervais, France. Runner attachment for motor-vehicles. No. 1,396,658; Nov. 8.
- Olmschenk, Lawrence A. (See Dreher, J., and Olmschenk.)
- Olmostead, Earl D., Philadelphia, Pa. Music-roll cabinet. No. 1,368,192; Feb. 8; v. 283; p. 313.
- Olmostead, Walter R., Cimarron, N. Mex. Stirrup. No. 1,384,627; July 12; v. 288; p. 334.
- Olmosted, Orrin E. G., Denver, Colo. Nut-lock. No. 1,379,473; May 24; v. 286; p. 771.
- Olney, Coralie S., Oakland, Calif. Bas-relief design and making same. No. 1,375,857; Apr. 26; v. 285; p. 612.
- Olney, George J., Westernville, N. Y. Measuring device. No. 1,388,192; Aug. 23; v. 289; p. 622.
- Olsen, Adolph K., Kilbourn, Wis. Convertible tool. No. 1,369,262; Feb. 22; v. 283; p. 609.
- Olsen, Alfred N., assignor of one-half to S. D. Riniker. Rock Rapids, Iowa. Boat-propelling pole. No. 1,383,559; July 5; v. 288; p. 62.
- Olsen, Axel M., East Orange, N. J. Electromagnetic valve. No. 1,395,203; Oct. 25.
- Olsen, Ben F., Marcus, Wash. Tea or coffee pot. No. 1,397,978; Nov. 22.
- Olsen, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Hob for generating bevel-gears. No. 1,397,697; Nov. 22.
- Olsen, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Cutter for generating skew bevel-gears. No. 1,398,039; Nov. 22.
- Olsen, Charles G., Portland, Oreg. Drum. No. 1,381,494; June 14; v. 287; p. 274.
- Olsen, Ernest R., Detroit, assignor to G. W. Olsen, Muskegon, Mich. Internal combustion engine. (Reissue.) No. 15,160; July 19; v. 288; p. 564.
- Olsen, Fredrich, Washington, D. C. Explosive composition. No. 1,376,029; Apr. 26; v. 285; p. 646.
- Olsen, Fredrich, Washington, D. C. Detonating or disruptive explosive. No. 1,376,030; Apr. 26; v. 285; p. 646.
- Olsen, George A., Jersey City, N. J. Tricycle. No. 1,392,848; Oct. 4.
- Olsen, George J., Colton, and F. Waterfield, Los Angeles, Calif., assignors to California Portland Cement Company. Pipe-making machine. No. 1,384,021; July 5; v. 288; p. 158.
- Olsen, George W. (See Olsen, Ernest R., assignor.) (Reissue.)
- Olsen, Harold, assignor to P. Becker and G. Becker, New York, N. Y.; said P. Becker executor of said G. Becker deceased. Etching-machine. No. 1,383,010; June 28; v. 287; p. 675.
- Olsen, Harry H., Minneapolis, Minn. Trainman's flag and container. No. 1,394,933; Oct. 25.
- Olsen, Henry E., assignor to Accounting Devices Company, Chicago, Ill. Binder. No. 1,370,149; Mar. 1; v. 284; p. 74.
- Olsen, Jens J., and L. E. Edwards, San Antonio, Tex. Piston-ring. No. 1,366,209; Jan. 18; v. 282; p. 502.
- Olsen, John C., Brooklyn, assignor to Chester Novelty Company, Incorporated, Albany, N. Y. Ink-stick. No. 1,364,406; Jan. 4; v. 282; p. 70.
- Olsen Manufacturing Corporation. (See Olson, Emil, assignor.)
- Olsen, Oscar W., assignor of one-fourth to W. S. Adams, one-fourth to D. C. Gibboney, Philadelphia, Pa., and one-fourth to H. N. Butler, Brooklyn, N. Y. Identification means and method. No. 1,372,036; Mar. 22; v. 284; p. 102.
- Olsen, Thorsten Y., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Ductility-testing machine. No. 1,371,050; Mar. 8; v. 284; p. 291.
- Olsen, Tinius, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Hammer-testing machine. No. 1,375,604; Apr. 19; v. 285; p. 532.
- Olshaskie, Benjamin, Pana, Ill. Coffeepot. No. 1,394,040; Oct. 18.
- Olson, Albert W., Chicago, Ill. Auxiliary seat for baby-carriages. No. 1,372,588; Mar. 22; v. 284; p. 697.
- Olson, Allen, San Pedro, Calif. Inside pipe-wrench. No. 1,371,642; Mar. 15; v. 284; p. 470.
- Olson, Andrew. (See Olson, Olof and A.)
- Olson, Andrew, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Paper-folding machine. No. 1,390,213; Sept. 6; v. 290; p. 131.
- Olson, Anton L., Welch, Minn. Garage-floor. No. 1,378,483; May 17; v. 286; p. 511.
- Olson, Anton V. (See Clark, Charlie N., assignor.)
- Olson, Arthur, Oslo, Minn. Incubator-alarm. No. 1,384,628; July 12; v. 288; p. 334.
- Olson, Carl, Foster City, Mich. Cooking utensil. No. 1,385,265; July 19; v. 288; p. 546.
- Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Machine-tool. No. 1,378,370; May 17; v. 286; p. 489.
- Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Tool-dressing device. No. 1,381,493; June 14; v. 287; p. 273.
- Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Hob for cutting involute gears. No. 1,383,844; July 5; v. 288; p. 122.
- Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Grinder-spindle. No. 1,393,817; Oct. 18.
- Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Rectified-tooth hob. No. 1,393,818; Oct. 18.
- Olson, Carl G., and F. W. England, assignors to Illinois Tool Works, Chicago, Ill. Hob-grinding machine. No. 1,383,843; July 5; v. 288; p. 122.
- Olson, Carl G., and N. Trbojevic, assignors to Illinois Tool Works, Chicago, Ill. Screw cutting and relieving machine. No. 1,384,913; July 19; v. 288; p. 473.
- Olson, Carl P., Irvington, N. J. Process of and apparatus for the manufacture and handling of metallic-leaf films. No. 1,387,068; Aug. 9; v. 289; p. 292.
- Olson, Charles A., Geneva, assignor to Crane Co., Chicago, Ill. Vent-valve. No. 1,365,720; Jan. 18; v. 282; p. 406.
- Olson, Charles W., assignor to Continental Motors Corporation, Detroit, Mich. Assembling-cradle. No. 1,389,068; Aug. 30; v. 289; p. 851.
- Olson, Cyrus B., assignor to The Oxygenator Company, Chicago, Ill. Carbon-remover. No. 1,374,519; Apr. 12; v. 285; p. 262.
- Olson, Edward H., J. C. H. Clark, M. B. Mealey, and C. Felter, Walla Walla, Wash. Automatic train-controlling apparatus. No. 1,366,588; Jan. 25; v. 282; p. 621.
- Olson, Emil, assignor to Olson Manufacturing Corporation, Rochester, N. Y. Sash-holder. No. 1,369,462; Feb. 22; v. 283; p. 647.
- Olson, Emil, assignor to Olson Manufacturing Corporation, Rochester, N. Y. Sash-holder. No. 1,393,309; Oct. 11.
- Olson, Erik, Great Falls, Mont. Stake. No. 1,392,206; Sept. 27; v. 290; p. 761.
- Olson, Ernest N., and S. Swanson, Muskegon, Mich. Molding-machine. No. 1,383,748; July 5; v. 288; p. 102.
- Olson, George S., Swift Current, Saskatchewan, Canada. Hasp. No. 1,377,426; May 10; v. 286; p. 257.
- Olson, Hans P. (See Erickson, O. F., and Olson.)
- Olson, Henry D., Omaha, Nebr. Traffic-signal. No. 1,371,928; Mar. 15; v. 284; p. 524.
- Olson, John A., Chicago, Ill. Vise. No. 1,375,928; Apr. 26; v. 285; p. 626.
- Olson, John B. (See Shodron, J. G., and Olson.)
- Olson, John B., assignor to James Manufacturing Company, Fort Atkinson, Wis. Adjustable cattle-stanchion. No. 1,364,405; Jan. 4; v. 282; p. 69.
- Olson, Joseph. (See Carlson, Victor R., assignor.)
- Olson Manufacturing Corporation. (See Olson, Emil, assignor.)
- Olson, Mauritz and O., Bridgeport, Conn. Garment-supporter. No. 1,370,606; Mar. 8; v. 284; p. 206.
- Olson, Mauritz, assignor to The A. H. Nilson Machine Co., Bridgeport, Conn. Wire-forming machine. No. 1,382,379; June 21; v. 287; p. 501.
- Olson, Neils D., Waterloo, Iowa. Adjustable frame for saw-blades. No. 1,399,316; Dec. 6.
- Olson, Nels L., Detroit, Mich. Spring suspension. No. 1,380,408; June 7; v. 287; p. 16.
- Olson, Nels L., Highland Park, Mich. Automatic tension-regulator for vehicle-springs. No. 1,380,409; June 7; v. 287; p. 16.
- Olson, Nels L., Highland Park, Mich. Resilient wheel. No. 1,382,537; June 21; v. 287; p. 531.
- Olson, Olof and A., Kingsburg, Calif. Disinfectant-dust-spraying machine. No. 1,368,649; Feb. 15; v. 283; p. 450.
- Olson, Olaf H., Kensington, New South Wales, Australia, assignor to W. J. W. Strong, Melbourne, Victoria, Australia. Temperature-indicating apparatus. No. 1,382,116; June 21; v. 287; p. 451.
- Olson, Olof W., assignor of one-half to A. W. Anderson, New York, N. Y. Leaf-turning device. No. 1,375,723; Apr. 26; v. 285; p. 588.
- Olson, Oscar. (See Olson, Mauritz and O.)
- Olson, Philip W., assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Pencil. No. 1,385,187; July 19; v. 288; p. 530.
- Olson, Robert C., Worcester, Mass. Crank-handle. No. 1,383,994; July 5; v. 288; p. 153.
- Olson, Samuel, Chicago, Ill. Elevator-loader. No. 1,367,081; Feb. 1; v. 283; p. 40.
- Olson, Thomas W., and A. Iverson, Osage, Iowa. Chain-connector. No. 1,386,273; Aug. 2; v. 289; p. 62.
- Olson, William T. (See De Fore, Thomas M., assignor.)
- Olsson, Anders H. (See Olsson, Karl and A. H.)
- Olsson, Charles, Milwaukee, Wis. Storage battery. No. 1,386,895; Aug. 9; v. 289; p. 257.
- Olsson, Elis, Westpoint, Va. Manufacture of sulfate pulp. No. 1,375,759; Apr. 26; v. 285; p. 594.
- Olsson, Karl and A. H., assignors to Aktiebolaget Lidsköpings Mekaniska Verkstad, Lidsköping, Sweden. Lathe-bed. No. 1,389,687; Sept. 6; v. 290; p. 25.
- Olsson, Zach, New York, N. Y. Tire-filling apparatus. (Reissue.) No. 15,065; Mar. 15; v. 284; p. 538.
- Olsson, Zacharias, Brooklyn, assignor to Aug. Rust-Oppenheim, New York, N. Y. Apparatus for indicating the condition of coal combustion. No. 1,383,144; June 28; v. 287; p. 701.
- Olston, Albert B., et al. (See Edstrom, Otto E., assignor.)
- Oltman, Albert, Eureka, Ill. Farm-gate. No. 1,399,372; Dec. 6.



*Alphabetical list of patentees—Continued.*

- O'Malley, John F., Mount Vernon, N. Y. Machine-gun. No. 1,366,210; Jan. 18; v. 282; p. 502.
- Omnigraph Company, The. (See Strawn, Ervin E., assignor.)
- Onan, David W., Minneapolis, Minn. Magneto-testing machine. No. 1,394,215; Oct. 18.
- Onderdonk, Lansing, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Picot edging for fabrics. No. 1,378,270; May 17; v. 286; p. 470.
- O'Neal, Clement W. (See Lemoine, J. E., and O'Neal.)
- O'Neal, John, St. Louis, Mo., and J. F. Haepfner, East St. Louis, Ill. Piston-ring. No. 1,376,898; May 3; v. 286; p. 99.
- Oncal, Zack. (See Whipple, L., and Oncal.)
- One Fire Asphalt Plant Company. (See Wall, Marion P., assignor.)
- Oneida Community. (See McMullen, Allen, assignor.)
- Oneida Community. (See O'Neil, Jeremiah, assignor.)
- O'Neil, Edward, Wakefield, Mich. Shears. No. 1,398,111; Nov. 22.
- O'Neil, James A., Lynn, Mass., assignor to General Electric Company. Headlight-reflector. No. 1,394,934; Oct. 25.
- O'Neil, Jeremiah, Sherrill, assignor to Oneida Community, Limited, Oneida, N. Y. Game-trap. No. 1,390,214; Sept. 6; v. 290; p. 131.
- O'Neil, Jeremiah, Sherrill, assignor to Oneida Community, Limited, Oneida, N. Y. Trap-jaw. No. 1,390,215; Sept. 6; v. 290; p. 131.
- O'Neil, Michael G. (See Borchert, C. A., and O'Neil.)
- O'Neil, Rodolph S., London, England. Electrical indicating device. No. 1,374,948; Apr. 19; v. 285; p. 406.
- O'Neil, Rodolph S., London, England. Signaling the position of a ship's helm. No. 1,377,427; May 10; v. 286; p. 257.
- O'Neil, Rodolph S., assignor to O'Neil's Recorder Syndicate Limited, London, England. Electrical signaling and indicating device for ships and other vessels. No. 1,389,895; Sept. 6; v. 290; p. 68.
- O'Neil, Arthur S., Wilmington, Del. Solvent recovery. No. 1,381,002; June 7; v. 287; p. 130.
- O'Neill, Frank, Jr., Philadelphia, Pa. Fibrous-plant-decorating machine. No. 1,371,805; Mar. 15; v. 284; p. 501.
- O'Neill, Frank, Jr., Philadelphia, Pa. Fibrous-plant-decorating machine. No. 1,390,922; Sept. 13; v. 290; p. 366.
- O'Neill, Frank, Jr., Philadelphia, Pa. Apparatus for decorating fibrous plants. No. 1,393,819; Oct. 18.
- O'Neill, Frank, Jr., Paris, Ky., assignor of forty-nine one-hundredths to himself and S. F. B. Morse, and fifty-one one-hundredths to W. T. Huguley, New York, N. Y., C. L. T. Fisher, Washington, D. C., and R. P. Shick, Philadelphia, Pa. Machine for treating flax and other fibrous plants. No. 1,369,045; Feb. 22; v. 283; p. 567.
- O'Neill, George S., Paterson, N. J. Automatic closure-controlling apparatus. No. 1,385,093; July 19; v. 288; p. 511.
- O'Neill, Haylett, Larchmont, and S. H. Payne, Brooklyn, N. Y. Slide-rule. No. 1,382,011; June 21; v. 287; p. 432.
- O'Neill, John. (See Dodd, Henry S., assignor.)
- O'Neill, Thomas B. (See Celler, Arthur, assignor.)
- O'Neill, William J. (See Beil, J. L., and O'Neill.)
- O'Neill, William W. (See Spelman, Frank E., assignor.)
- O'Neil's Recorder Syndicate Limited. (See O'Neil, Rodolph S., assignor.)
- Onepiece Bifocal Lens Company. (See Bugbee, Lucian W., assignor.)
- Onepiece Bifocal Lens Company. (See Green, Charles, assignor.)
- Oniki, Manjiro, Fukuoka-Ken, Japan. Rice for manufacturing soy. No. 1,400,374; Dec. 13.
- Ono, Koh, New York, N. Y. Toy. No. 1,364,513; Jan. 4; v. 282; p. 91.
- Ono, Koh, New York, N. Y. Doll. No. 1,377,623; May 10; v. 286; p. 293.
- Onstad, Albert H., Tacoma, Wash., assignor to Weyerhaeuser Forest Products, St. Paul, Minn. Branding-machine. No. 1,369,934; Mar. 1; v. 284; p. 34.
- On-The-Dot-Level Device. (See Thullen, Christopher F., assignor.)
- Ooley, Anderson, Colorado Springs, Colo. Tie-plate and rail-antireeper. No. 1,382,848; June 28; v. 287; p. 644.
- Ooley, Welker V., Linby, Iowa. Pipe-wrench. No. 1,368,966; Feb. 15; v. 283; p. 511.
- Ophardt, John G. (See Bartley, J. C., and Ophardt.)
- Ophuls, Fred, Brooklyn, N. Y. Ice manufacture. No. 1,370,221; Mar. 1; v. 284; p. 88.
- Opie, John D. (See Green, S. H., and Opie.)
- Opie, Leslie E., Cedar Rapids, Iowa. Radiator-overflow condenser. No. 1,375,413; Apr. 19; v. 285; p. 496.
- Opitz, Fred M., Racine, Wis. Radiator-core. No. 1,381,655; June 14; v. 287; p. 304.
- Opitz, Fred M., assignor to Perfex Radiator Company, Racine, Wis. Radiator for automobiles and the like. No. 1,371,996; Mar. 15; v. 284; p. 537.
- Opocenský, John, Chicago, Ill. Dish-washer. No. 1,382,117; June 21; v. 287; p. 457.
- Oponiak, Stanley and A. H. Rainfitt, Plantsville, Conn. Coupling-hook. No. 1,375,724; Apr. 26; v. 285; p. 588.
- Oppel, John V. (See Graff, F. W., and Oppel.)
- Oppenheim, Albert, New York, N. Y. Clasp-stud. No. 1,369,463; Feb. 22; v. 283; p. 647.
- Oppenheimer, Edgar A., Chicago, Ill., assignor to N. D. Baker, Secretary of War, trustee. Duplicator. No. 1,382,312; June 21; v. 287; p. 488.
- Oppl, Valentine, San Jose, Calif. Embalming process. No. 1,364,450; Jan. 4; v. 282; p. 79.
- Oppman, Joseph, Connellsville, Pa. Rope-clamp. No. 1,399,647; Dec. 6.
- Oppman, Joseph, Pittsburgh, Pa. Interlocking link. No. 1,399,646; Dec. 6.
- Opposed Piston Oil Engine Co. (See Junkers, Hugo, assignor.)
- Oprisak, Andrew, and J. Prokopowicz, Detroit, Mich. Safety-stop for elevators. No. 1,391,575; Sept. 20; v. 290; p. 561.
- Opsahl, Harry L., Minneapolis, Minn. Spark-plug tester. No. 1,378,484; May 17; v. 286; p. 511.
- Opt, Warren N., assignor to C. I. Strauss and C. Pond, Tiffin, Ohio. Cream-separator. No. 1,400,973; Dec. 20.
- O'Quinn, Arthur M., Miami, Fla. Sizer and grader. No. 1,379,207; May 24; v. 286; p. 721.
- O'Quinn, Arthur M., Miami, Fla. Sizer and grader. No. 1,382,538; June 21; v. 287; p. 531.
- Orange Contracting & Milling Co. (See Miller, Rudolph W., assignor.)
- Orcutt, Charles C. (See Reed, Frederic P., assignor.)
- Ord, Lewis C., assignor to The Holden Company, Limited, Montreal, Quebec, Canada. Box-car. No. 1,400,094; Dec. 13.
- Ordal, Albert J., Colton, S. D. Nut-lock. No. 1,393,958; Oct. 18.
- Ordine, Fred., New York, N. Y. Device for dipping artificial fruit. No. 1,396,458; Nov. 8.
- Ordinance Engineering Corporation. (See Bergman, Axel G., assignor.)
- Ordinator Company. (See Brixey, Austin D., assignor.)
- Ordway, Dana L. (See Robinson, H. E., and Ordway.)
- Oregon Woodware Mfg. Co. (See Springer, Aaron M., assignor.)
- O'Reilly, Thomas F., Chicago, Ill. Advertising appliance. No. 1,370,908; Mar. 8; v. 284; p. 264.
- O'Reilly, William E., London, England. Razor-blade. No. 1,385,579; July 26; v. 288; p. 686.
- Orend, Peter, Cedar Rapids, Iowa. Newspaper-holder. No. 1,376,031; Apr. 26; v. 285; p. 646.
- Orewiler, Benjamin F., Chicago, Ill. Buckle. No. 1,365,721; Jan. 18; v. 282; p. 406.
- Organ, Phinias A., Vincennes, Ind. Farm implement. No. 1,401,434; Dec. 27.
- Oriel, William B., Grand Rapids, Mich. Change-speed and reversing gearing. No. 1,401,636; Dec. 27.
- Origet, Maurice, Arrochar, N. Y. Method and means for vaporizing heavy oils. No. 1,370,476; Mar. 1; v. 284; p. 137.
- O'Riley, Leo J. (See Mencarelli, Herman R., assignor.)
- Ormes, Norman A., Pittsburgh, Pa. Barrel-cleat. No. 1,395,728; Nov. 1.
- Ormes, William R., Waltham, Mass. Inker for typewriter-ribbons. No. 1,391,139; Sept. 20; v. 290; p. 473.
- Ormsbee, George F., Smith Center, Kans., assignor of one-half to E. F. Yale, Lincoln, Nebr. Well-boring machine. No. 1,366,826; Jan. 25; v. 282; p. 668.
- Ormsby, Donald D. (See Logne, C. H., and Ormsby.)
- Orner, Elmo P., St. Louis, Mo. Device for straightening sheet metal. No. 1,391,787; Sept. 27; v. 290; p. 676.
- O'Rourke, John F., New York, N. Y. Means for supporting tunnel-lining segments. No. 1,382,668; June 28; v. 287; p. 611.
- Orr, Alexander, Choma, Northern Rhodesia, South Africa. Tires of road and like vehicles. No. 1,391,905; Sept. 27; v. 290; p. 700.
- Orr, C. L., et al. (See Matheny, Thurston, assignor.)
- Orr, Elbert A. (See Webb, William F., assignor.)
- Orr, Francis L. (See Jahne, O. H., and Orr.)
- Orr, Robert J., Brooklyn, N. Y. Writing-machine. No. 1,391,788; Sept. 27; v. 290; p. 676.
- Orr, Robert P., Albany, N. Y. Cover and support for carriers. No. 1,385,224; July 19; v. 288; p. 538.
- Orr, Samuel W., Green Valley, Ill. Hog-ring. No. 1,388,596; Aug. 23; v. 289; p. 703.
- Orr, William J., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Tennis-ball and making same. No. 1,376,778; May 3; v. 286; p. 75.
- Orr, William S. (See McNally, T., and Orr.)
- Orrock, John W., Westmont, Quebec, Canada. Flange-way-guard. No. 1,384,333; July 12; v. 288; p. 272.
- Orrock, John W., Montreal, Quebec, Canada. Mill-type door. No. 1,389,211; Aug. 30; v. 289; p. 879.
- Orsinger, William P., Chicago, Ill. Spark-plug. No. 1,384,914; July 19; v. 288; p. 473.
- Örström, Gustaf. (See Ekström, G. C., Johnson, and Örstrom.)
- Ortgier, George, East St. Louis, Ill. Aeroplane. No. 1,396,459; Nov. 8.
- Ortgier, George, East St. Louis, Ill. Aeroplane. No. 1,397,292; Nov. 15.
- Ortgier, Walter C., Wichita Falls, Tex. Truck. No. 1,375,535; Apr. 19; v. 285; p. 519.
- Ortgies, Heinrich, Erfurt, Germany. Self-loading pistol. No. 1,382,313; June 21; v. 287; p. 488.
- Ortgies, Heinrich, Erfurt, Germany. Self-loading pistol. No. 1,386,197; Aug. 2; v. 289; p. 47.



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- Ortgies, Heinrich, Erfurt, Germany. Self-loading pistol. No. 1,399,224; Dec. 6.
- Orth, Henry J. (See McCullough, William T., assignor.) (Reissue.)
- Orth, Marciene J., Lorain, Ohio. Combined high chair and cradle. No. 1,366,274; Jan. 18; v. 282; p. 515.
- Ortman, William H., Milwaukee, Wis. Clothesline-support. No. 1,368,650; Feb. 15; v. 283; p. 451.
- Ortzig, Ernst, Cologne-Ehrenfeld, Germany. Tool-holder. No. 1,387,862; Aug. 16; v. 289; p. 502.
- Osborn, Charles B., Somerville, Mass. Ship's davit. No. 1,401,919; Dec. 27.
- Osborn, Alden E., New York, N. Y. Internal-combustion engine. No. 1,390,810; Sept. 13; v. 290; p. 343.
- Osborn, Francis C., Detroit, Mich. Container-spout. No. 1,375,725; Apr. 26; v. 285; p. 588.
- Osborn, James H., Mount Vernon, Ill. Combination plumb-level. No. 1,380,243; May 31; v. 286; p. 991.
- Osborn, James H., Mount Vernon, Ill. Weather-strip. No. 1,397,979; Nov. 22.
- Osborn, Michael E., and J. R. Wollan, Midland, Pa. Automobile-tire. No. 1,380,496; June 7; v. 287; p. 33.
- Osborn, Ralph, Randolph, Nebr. Lamp. No. 1,379,279; May 24; v. 286; p. 735.
- Osborn, Thomas O. (See Powell, T. B., and McLean, assignors.)
- Osborn, Warren M., assignor to Chicago Malleable Castings Company, Chicago, Ill. Railway tie-plate. (Reissue.) No. 15,167; July 26; v. 288; p. 767.
- Osborne, Clarence E., Portland, Oreg. Automatic air-valve for carbureters. No. 1,379,474; May 24; v. 286; p. 772.
- Osborne, Evan E., Los Angeles, Calif. Lubricated stuffing-box. No. 1,387,301; Aug. 9; v. 289; p. 337.
- Osborne, Frank M., Butte, Mont. Airplane. No. 1,393,820; Oct. 18.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Composite transmission system. No. 1,374,219; Apr. 12; v. 285; p. 204.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Composite signaling system. No. 1,374,220; Apr. 12; v. 285; p. 204.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Composite phantom circuit. No. 1,374,221; Apr. 12; v. 285; p. 204.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Apparatus for testing capacity deviations and unbalance of electric conductors. No. 1,375,414; Apr. 19; v. 285; p. 496.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Means for reducing interference. No. 1,390,580; Sept. 13; v. 290; p. 296.
- Osborne, Harold S. and W. H. Martin, New York, N. Y., assignors to American Telephone and Telegraph Company. Means for and method of measuring weak currents. No. 1,366,414; Jan. 25; v. 282; p. 586.
- Osborne, John H., Anderson, Ind. Meat-slicing machine. No. 1,366,927; Feb. 1; v. 283; p. 9.
- Osborne, John W. (See Davis, J. W., and Osborne.)
- Osborne, Paul J., Hoboken, N. J. Ornamental card and producing the same. No. 1,374,764; Apr. 12; v. 285; p. 309.
- Osborne, Raymond G., Los Angeles, Calif. Treating concrete or the like. No. 1,383,749; July 5; v. 288; p. 102.
- Osborne, Walter F., Wagon Mound, N. Mex. Aeroplane. No. 1,368,967; Feb. 15; v. 283; p. 511.
- Osborne, Walter F., Wagon Mound, N. Mex. Aeroplane. No. 1,387,899; Aug. 16; v. 289; p. 508.
- Osborne, William, Auburn, Nebr. Gun-magazine attachment. No. 1,374,601; Apr. 12; v. 285; p. 278.
- Osburn, Benjamin M., and H. D. Walker, Chicago, Ill., assignors to Benjamin Electric Manufacturing Company. Machine for making tinsel and the like. No. 1,394,340; Oct. 18.
- Osburn, John A., Rochester, N. Y. Dust-hood for ash-cans. No. 1,372,539; Mar. 22; v. 284; p. 698.
- Osburn, Orville F. (See Ruley, L. A., and Osburn.)
- Osgood, Dana, assignor to Draper Corporation, Hopedale, Mass. Warp stop-motion for looms. No. 1,366,827; Jan. 25; v. 282; p. 669.
- Osgood, Dana, assignor to Draper Corporation, Hopedale, Mass. Warp stop-motion for looms. No. 1,366,828; Jan. 25; v. 282; p. 669.
- Osgood, George L., Ayer, Mass. Camera-case. No. 1,374,949; Apr. 19; v. 285; p. 406.
- Osgood, Louis A., assignor, by mesne assignments, to International Scale Company, Dayton, Ohio. Scale. No. 1,385,791; July 26; v. 288; p. 729.
- Osgood, Robert C., Claremont, N. H., assignor, by mesne assignments, to The Jeffrey Manufacturing Company, Columbus, Ohio. Mining-machine. No. 1,370,477; Mar. 1; v. 284; p. 137.
- Osgood, Robert C., Claremont, N. H., assignor to Sullivan Machinery Company. Axle-box. No. 1,399,398; Dec. 6.
- O'Shaughnessy, Martin R., Cobalt, Ontario, Canada. Tubemill liner. No. 1,371,929; Mar. 15; v. 284; p. 524.
- Oshkosh Trunk Company, The. (See Meyer, Frank W., assignor.)
- Osieck, Henri, Amsterdam, Netherlands. Working-time indicator. No. 1,383,560; July 5; v. 288; p. 63.
- Osley, Willard A., Springfield, Mass. Hose-band. No. 1,372,629; Mar. 22; v. 284; p. 715.
- Osle, Ole P., Raymond, Minn. Heater. No. 1,368,284; Feb. 15; v. 283; p. 379.
- Oslund, Charles H. (See Johnson, J. E., and Oslund.)
- Osman, Charles H., San Francisco, Calif. Vehicle-signal. No. 1,379,475; May 24; v. 286; p. 772.
- Osman, Ralph T., assignor of one-half to E. W. Sparling, Ashland, Wis. Internal-combustion engine. No. 1,390,811; Sept. 13; v. 290; p. 343.
- Osmer, John E., Owosso, Mich. Lubricating device for air-compressors. No. 1,367,560; Feb. 8; v. 283; p. 102.
- Osmer, William H., St. Louis, Mo. Buttonhole-clip. No. 1,365,122; Jan. 11; v. 282; p. 251.
- Osmer, Frank C. (See Gove, Edgar A., assignor.)
- O-So-Ezy Products Company. (See Perusse, George L., assignor.)
- Osol, Fritz E. (See Barron, W. L., and Osol.)
- Osswald, Herman, Richmond Hill, N. Y. Automatic threading-machine. No. 1,391,492; Sept. 20; v. 290; p. 544.
- Osswald, Herman, Richmond Hill, N. Y., assignor to The V. & O. Press Company. Safety-guard for presses. No. 1,392,699; Oct. 4.
- Ost, Frederick A., Minneapolis, Minn. Ratchet mechanism. No. 1,393,692; Oct. 11.
- Ostafichuk, Iwan, Fort William, Ontario, Canada. Combination article of furniture. No. 1,381,134; June 14; v. 287; p. 208.
- Ostberg, Anders J., and A. Kenny, Richmond, near Melbourne, Victoria, Australia. Manufacture of resilient tires. No. 1,367,496; Feb. 1; v. 283; p. 122.
- Ostenberg, Pontus, San Jose, Calif. Centrifugal pump. No. 1,366,589; Jan. 25; v. 282; p. 621.
- Ostenberg, Pontus, San Jose, Calif. Pump mechanism. No. 1,379,579; May 24; v. 286; p. 792.
- Ostenberg, Pontus, Los Gatos, Calif. Impulse-starter. No. 1,383,480; July 5; v. 288; p. 46.
- Ostenberg, Pontus, San Jose, Calif. Centrifugal pump. No. 1,387,660; Aug. 16; v. 289; p. 460.
- Oster, Herman W., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Pipe-cutter. No. 1,367,323; Feb. 1; v. 283; p. 87.
- Oster Manufacturing Company, The. (See Oster, Herman W., assignor.)
- Oster, Matthew C., Roy, Mont. Gate and door operating mechanism. No. 1,380,077; May 31; v. 286; p. 960.
- Osterberg, Axel E., and G. Oberg, Norway, Mich. Twineholder. No. 1,373,757; Apr. 5; v. 285; p. 72.
- Osterberg, Carl T., assignor to A. O. Smith Corporation, Milwaukee, Wis. Corrugated-metal end for railway-cars. No. 1,398,241; Nov. 29.
- Osterberg, Frank A., Chicago, Ill. Serving-table. No. 1,380,007; May 31; v. 286; p. 946.
- Osterholm, William C., Chicago, Ill. Universal tapping-machine. No. 1,395,353; Nov. 1.
- Osterhout, Garret B., Providence, R. I., assignor to Willcox & Gibbs Sewing Machine Co., New York, N. Y. Sewing-machine folder. No. 1,368,193; Feb. 8; v. 283; p. 313.
- Osterhout, John V., Bridgeport, Conn. Spark-plug. No. 1,371,431; Mar. 15; v. 284; p. 429.
- Osterhout, John V., Bridgeport, Conn. Electrode for spark-plugs. No. 1,373,907; Apr. 5; v. 285; p. 103.
- Osterhout, Ivan L., Colfax, Wash. Adjustable reading-rack. No. 1,398,601; Nov. 29.
- Osterman, Robert. (See Hauserman, Mowery, Smith, and Osterman.)
- Osterud, Laurits H., Seattle, Wash. Folding bed. No. 1,366,482; Jan. 25; v. 282; p. 600.
- Ostner, Jules H., New York, N. Y. Guide for box-machines. No. 1,365,538; Jan. 11; v. 282; p. 332.
- Ostrander, Alexander J., Lyons, N. Y. Stringed musical instrument. No. 1,388,880; Aug. 30; v. 289; p. 813.
- Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, St. Louis, Mo. Tank-car discharge-valve mechanism. No. 1,370,760; Mar. 8; v. 284; p. 237.
- Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Dumping-car. No. 1,370,761; Mar. 8; v. 284; p. 237.
- Ostrander, Allen E., Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Car-underframe. No. 1,370,762; Mar. 8; v. 284; p. 237.
- Ostrander, Charles W., Winsted, Conn. Adjustable caster. No. 1,375,536; Apr. 19; v. 285; p. 519.
- Ostrander, James, assignor to Grapho-Metal Packing Company, Indianapolis, Ind. Yieldable packing. No. 1,381,931; June 21; v. 287; p. 417.
- Ostrander, W. R., & Company. (See Behrens, Walter A., assignor.)
- Ostrom, Freeland W., Newark, and I. F. Webb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Filled-sack-sewing apparatus. No. 1,377,624; May 10; v. 286; p. 294.
- Ostrom, Freeland W., Newark, and I. F. Webb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Filled-sack-sewing apparatus. No. 1,387,069; Aug. 9; v. 289; p. 292.
- Ostrom, Freeland W., Newark, and I. F. Webb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Filled-sack-sewing apparatus. No. 1,396,048; Nov. 8.
- Öström, Oskar, Herseberg, Lidinge, Sweden. Fastening device for awnings. No. 1,376,351; Apr. 26; v. 285; p. 707.



## Alphabetical list of patentees—Continued.

- Ostwald, Walter, Grossbothen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing ammonium chlorid from fuels. No. 1,367,082; Feb. 1; v. 283; p. 40.
- Ostwald, Walter, Grossbothen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Method of and apparatus for utilizing mine-waste by means of the heat of dump-heaps. No. 1,369,350; Feb. 22; v. 283; p. 626.
- Ostwald, Walter, Grossbothen, near Leipzig, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing nitrogen compounds during the dry distillation of nitrogenous fuel. No. 1,386,723; Aug. 9; v. 289; p. 222.
- O'Sullivan, Joseph E., North Madison, Ind. Valve-spring compressor and valve-grinding tool. No. 1,379,310; May 24; v. 286; p. 741.
- O'Sullivan, Paul, Milwaukee, Wis. Muffler. No. 1,378,555; May 17; v. 286; p. 584.
- Oswald, Earl P. (See Galamb, J., and Oswald.)
- Ota, Otohiko, *et al.* (See Rees, Frank W., assignor.)
- Other, William F., St. Louis, Mo. Combined license-plate and tail-light. No. 1,386,018; Aug. 2; v. 289; p. 11.
- Oths, Peter J., East Haven, Conn. Window-shade bracket. No. 1,387,610; Aug. 16; v. 289; p. 451.
- Otis, Charles H., Orange, Conn. Key-ring chain. No. 1,380,244; May 31; v. 286; p. 991.
- Otis Elevator Company. (See Davis, E. G., and Lindquist, assignors.)
- Otis Elevator Company. (See Gale, Ernest L., Sr., assignor.)
- Otis Elevator Company. (See Hymans, Frederick, assignor.)
- Otis Elevator Company. (See Lindquist, D. L., and Hymans, assignors.)
- Otis Elevator Company. (See Lindquist, D. L., and Larson, assignors.)
- Otis Elevator Company. (See Rothenberg, Arthur C., assignor.)
- Otis, Spencer, Chicago, Ill. Locomotive-terminal for railway systems. No. 1,387,863; Aug. 16; v. 289; p. 502.
- Otis, Spencer, Chicago, Ill. Safety washout-plug. No. 1,396,659; Nov. 8.
- O'Toole, John, Los Angeles, Calif. Spark-plug-adjusting device. No. 1,384,209; July 12; v. 288; p. 246.
- O'Toole, Michael F. A., Baltimore, Md. Shipping-crate. No. 1,383,561; July 5; v. 288; p. 62.
- Otsu, Shintaro, assignor to Kabushiki Kaisha Osaka Tekkoshu, Osaka, Japan. Piston. No. 1,371,108; Mar. 8; v. 284; p. 302.
- Otsuka, Teruyoshi, Oakland, Calif. Valve-lifter. No. 1,384,969; July 19; v. 288; p. 485.
- Otsuka, Yekichi, Tokyo, Japan. Apparatus for concentrating ores by flotation. No. 1,393,821; Oct. 18.
- Ott, Erwin, assignor to Prof. Dr. E. H. Faust, Basel, Switzerland. Explosive and making same. No. 1,390,378; Sept. 13; v. 290; p. 256.
- Ott, Frederick, Norristown, assignor, by mesne assignments, to A. T. Baker & Company, Inc., Manayunk, Pa. Pile fabric. No. 1,379,931; May 31; v. 286; p. 932.
- Ott, Harvey N., assignor to Spencer Lens Company, Buffalo, N. Y. Projection apparatus. No. 1,392,207; Sept. 27; v. 290; p. 762.
- Ott, Harvey N., and F. H. Bufton, assignors to Spencer Lens Co., Buffalo, N. Y. Holding means for opaque objects. No. 1,375,585; Apr. 26; v. 285; p. 612.
- Ott, Merle E., Clear Lake, Iowa. Funnel. No. 1,399,150; Dec. 6.
- Otte, George, Sand Springs, Mont. Additional pulley-rim. No. 1,379,280; May 24; v. 286; p. 735.
- Otten, Lawrence F., Newport, Ky. Buckle for personal wear. No. 1,382,737; June 28; v. 287; p. 623.
- Otten, Lawrence F., Newport, Ky. Belt-buckle. No. 1,393,721; Oct. 11.
- Ottenheimer, Reuben E., Baltimore, Md. Refrigerator. No. 1,389,698; Sept. 6; v. 290; p. 25.
- Ottenheimer, Reuben E., Baltimore, Md. Refrigerator-showcase. No. 1,390,812; Sept. 13; v. 290; p. 344.
- Otterström, Ernst E., Stockholm, Sweden. Brick wall. No. 1,395,764; Nov. 1.
- Otti, Joseph, Oklahoma, Okla. Animal-poke. No. 1,364,797; Jan. 4; v. 282; p. 144.
- Otti, Joseph, Oklahoma, Okla. Reversible clutch. No. 1,393,693; Oct. 11.
- Ottinger, Leon, New York, N. Y. Latch. No. 1,386,422; Aug. 2; v. 289; p. 90.
- Otto, Albert S., Bronxville, N. Y. Packing of oblong magnetic objects. No. 1,367,083; Feb. 1; v. 283; p. 40.
- Otto, Henry J., Evansville, Ind. Tire-casing-repair tool. No. 1,380,008; May 31; v. 286; p. 947.
- Otto, Marius-Paul, Paris, France. Treatment of wood for seasoning it. No. 1,381,656; June 14; v. 287; p. 304.
- Otto, Maximilian J., New York, N. Y. Gas-jet heater. No. 1,366,886; Jan. 25; v. 282; p. 680.
- Otto, Maximilian J., New York, N. Y. Hot-air furnace. No. 1,380,734; June 7; v. 287; p. 78.
- Otto, Michael W., Supply, Okla. Notice-indicator and message-receiver. No. 1,377,918; May 10; v. 286; p. 352.
- Ottumwa Iron Works. (See Mead, Ezra B., assignor.)
- Oubridge, William A., Coventry, England. Manufacture of piston-rings. No. 1,385,345; July 19; v. 288; p. 561.
- Ouderkirk, Frank P., Imperial, Nebr. Fuel-tank outlet. No. 1,385,390; July 26; v. 288; p. 647.
- Ouellette, John, New Bedford, Mass. Stop mechanism for looms. No. 1,394,341; Oct. 18.
- Ouellette, John B., New Bedford, Mass. Bending attachment for vises. No. 1,397,980; Nov. 22.
- Ouellette, Wilfrid, St. Scholastique, Quebec, Canada. Blower for threshing-machines and the like. No. 1,383,967; July 5; v. 288; p. 147.
- Ouillett, Charles E., Lowell, Mass. Elevator. No. 1,392,078; Sept. 27; v. 290; p. 736.
- Oulianine, Serge, Sydenham, England. Signaling apparatus. No. 1,377,521; May 10; v. 286; p. 274.
- Oulianine, Serge, assignor of one-half to D. B. Sanders, London, England. Press-button fastening. No. 1,371,806; Mar. 15; v. 284; p. 501.
- Outlook Company, The. (See Beitman, Albert B., assignor.)
- Outlook Company, The. (See West, Brennan B., assignor.)
- Ouzoun-Boghossian, Sissak K., Washington, D. C. Watch-movement case. No. 1,364,798; Jan. 4; v. 282; p. 145.
- Ouzoun-Boghossian, Sissak K., Washington, D. C. Watch-movement case. No. 1,375,661; Apr. 19; v. 285; p. 543.
- Ovens, John D., Wallace, Idaho. Tire-rack for motor-vehicles. No. 1,365,946; Jan. 18; v. 282; p. 452.
- Overbey, Eddie M., Creighton, Mo. Dust-cap for inflating valve-stems. No. 1,367,084; Feb. 1; v. 283; p. 40.
- Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass. Apparatus and method of making and packaging roofing units. No. 1,365,947; Jan. 18; v. 282; p. 452.
- Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Boston, Mass. Shingle-strip. No. 1,366,590; Jan. 25; v. 282; p. 622.
- Overbury, Frederick C., Hillsdale, N. J., assignor to The Flintkote Company, Inc., Boston, Mass. Machine for making shingle-strips. No. 1,394,342; Oct. 18.
- Overbury, Frederick C., Hillsdale, N. J., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Producing ornamental roofing. No. 1,398,272; Nov. 29.
- Overbury, Frederick C., Hillsdale, N. J., and C. E. Rahr, Brookline, assignors to The Flintkote Company, Boston, Mass. Asphalt-package and making the same. No. 1,391,969; Sept. 27; v. 290; p. 714.
- Overholt, John D., Wooster, Ohio. Crib and bin ventilator. No. 1,369,537; Feb. 22; v. 283; p. 662.
- Overkamp, Walter, Evergreen, Colo. Well-drilling apparatus. No. 1,384,629; July 12; v. 288; p. 334.
- Overlander, Jacob A., New York, N. Y. Multiple tire-valve. No. 1,376,968; May 3; v. 286; p. 112.
- Overlien, Ole P., Black River Falls, Wis. Double-door-actuating device. No. 1,373,567; Apr. 5; v. 285; p. 37.
- Overman, Charles S., Detroit, Mich. Bearing-dressing device. No. 1,392,208; Sept. 27; v. 290; p. 762.
- Overmyer, Charles G., Hartford City, Ind. Heat-alarm. No. 1,380,009; May 31; v. 286; p. 947.
- Overton, Edward F., Buffalo, N. Y. Apparatus for treating sewage. No. 1,401,182; Dec. 27.
- Overton, Tyler P., Los Angeles, Calif. Device for manipulating the bones of the feet. No. 1,375,314; Apr. 19; v. 285; p. 478.
- Oves, Henry B., Erie, Pa. Dish-washing machine. No. 1,381,221; June 14; v. 287; p. 224.
- Ovestrud, Melvin, assignor to Twin City Forge & Foundry Company, Stillwater, Minn. Combination tie-plate and anticreepers for rails. No. 1,397,776; Nov. 22.
- Ovida Co. (See Burns, Kathryn L., assignor.)
- Owen, Bernard, Greenwich, London, England. Toy gun. No. 1,365,187; Jan. 11; v. 282; p. 264.
- Owen, Brice, Los Angeles, Calif. Motor-vehicle lock. No. 1,399,514; Dec. 6.
- Owen, Charles I., Yonkers, N. Y. Display device. No. 1,385,225; July 19; v. 288; p. 538.
- Owen, Edward C., assignor to S. Owen, Grand Rapids, Mich. Phonograph-horn. No. 1,390,238; Sept. 6; v. 290; p. 135.
- Owen, Edward W., New York, N. Y. Pencil attachment. No. 1,386,526; Aug. 2; v. 289; p. 110.
- Owen, Frederick, Detroit, Mich. Washing-machine. No. 1,391,848; Sept. 27; v. 290; p. 689.
- Owen, George W., assignor of one-half to P. K. Thiry, Indianapolis, Ind. Detachable heel. No. 1,400,095; Dec. 13.
- Owen, George W., assignor of one-half to P. K. Thiry, Indianapolis, Ind. Detachable heel for shoes and boots. No. 1,400,096; Dec. 13.
- Owen, Harry, Roosevelt, Utah. Tire. No. 1,398,200; Nov. 22.
- Owen, Ira J., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Framework for vacuum-cleaner carpet-sweepers. No. 1,371,432; Mar. 15; v. 284; p. 429.
- Owen, Ira J., and B. J. Bouwmeester, assignors to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Nozzle locking and retaining means for vacuum-cleaners. No. 1,365,123; Jan. 11; v. 282; p. 252.
- Owen, Ira J., and B. J. Bouwmeester, assignors to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Dust-bag structure for vacuum-cleaners. No. 1,377,721; May 10; v. 286; p. 312.
- Owen, James E., Edgely, N. D. Wrench. No. 1,377,428; May 10; v. 286; p. 257.



*Alphabetical list of patentees—Continued.*

- Owen, James W., Secane, Pa., and A. Hewitt, Camden, N. J., assignors to Victor Talking Machine Company. Making record-tablets. No. 1,368,745; Feb. 15; v. 283; p. 469.
- Owen, Joseph G., Brighton, England. Motor-vehicle. No. 1,386,354; Aug. 2; v. 289; p. 77.
- Owen, Joseph W., Plymouth, England. Mixer for dough and like plastic substances. No. 1,374,765; Apr. 12; v. 285; p. 309.
- Owen, Minnie A., Charlottetown, Prince Edward Island, Canada. Cup and spool holder for cooking utensils. No. 1,385,580; July 26; v. 288; p. 686.
- Owen, Ole A., Bradley Beach, N. J. Motion-picture stage illusion. No. 1,395,513; Nov. 1.
- Owen, Peter J., San Francisco, Calif. Sand or grain distributor. No. 1,375,799; Apr. 26; v. 285; p. 601.
- Owen, Richard B., Washington, D. C. Outboard-motor. No. 1,374,095; Apr. 5; v. 285; p. 139.
- Owen, Sovilla. (See Owen, Edward C., assignor.)
- Owen, William O., Washington, D. C. Production of "Dissolve" effects in moving-picture films. No. 1,397,600; Nov. 22.
- Owen, William O., Washington, D. C. Device for use in fade-printing. No. 1,397,601; Nov. 22.
- Owen, William O., Washington, D. C. Production of insets on moving-picture films. No. 1,397,602; Nov. 22.
- Owens Bottle Company, The. (See Flint, Opha H., assignor.)
- Owens Bottle Company, The. (See Whittemore, James, assignor.)
- Owens Bottle Machine Company, The. (See La France, Richard, assignor.)
- Owens, Charles, Chattanooga, Tenn. Tractor-plow. No. 1,396,049; Nov. 8.
- Owens, Charles, Chattanooga, Tenn. Agricultural implement. No. 1,397,599; Nov. 22.
- Owens, Charles W., Pontardawe, Wales. Domestic hot-water-supply system. No. 1,372,540; Mar. 22; v. 284; p. 698.
- Owens, Edward W., Wagner, S. D. Cultivator. No. 1,369,981; Mar. 1; v. 284; p. 43.
- Owens, Floyd L., *et al.* (See Smith, Jesse R., assignor.)
- Owens, George B., Merriam, Kans. Direction-indicating signal. No. 1,392,442; Oct. 4.
- Owens, James W., Cradock, Va., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Method for use in connection with the testing of materials. No. 1,397,541; Nov. 22.
- Owens, John, Kingston, Iowa. Grease-gun. No. 1,379,281; May 24; v. 286; p. 735.
- Owens, John B., Metuchen, N. J. Baffle for combustion-chambers of tunnel-kilns. No. 1,379,123; May 24; v. 286; p. 706.
- Owens, John B., Metuchen, N. J. Cooling means for tunnel-kilns. No. 1,379,714; May 31; v. 286; p. 891.
- Owens, John B., Zanesville, Ohio. Means for cooling tunnel-kilns. No. 1,377,522; May 10; v. 286; p. 274.
- Owens, John B., Zanesville, and E. P. Ogden, Columbus, Ohio. Combustion-chamber for tunnel-kilns. No. 1,378,190; May 17; v. 286; p. 455.
- Owens, John T., New York, N. Y. Stretcher. No. 1,384,630; July 12; v. 288; p. 334.
- Owens, Michael J., assignor to The Toledo Glass Company, Toledo, Ohio. Glass gathering and shaping machine. No. 1,364,514; Jan. 4; v. 282; p. 91.
- Owens, Michael J., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-forming apparatus. No. 1,397,326; Nov. 15.
- Owens, Oscar M., Homer, Ga. Animal-poke. No. 1,400,568; Dec. 20.
- Owens, Richard L., Minneapolis, Minn. Grain-separator. No. 1,366,928; Feb. 1; v. 283; p. 9.
- Owens, Richard L., Minneapolis, Minn. Feed-hopper for grain-cleaning machinery. No. 1,400,232; Dec. 13.
- Owens, Richard L., Minneapolis, Minn. Wild-oat separator. No. 1,400,233; Dec. 13.
- Owens, Richard L., Minneapolis, Minn. Feed-hopper for grain-cleaning machines. No. 1,400,234; Dec. 13.
- Owens, Thomas S., Toledo, Ohio. Apparatus for drawing sheet-glass. No. 1,386,724; Aug. 9; v. 289; p. 222.
- Owens, William J., Chippenhain, England. Adjustable tire-lever. No. 1,398,602; Nov. 29.
- Owers, Ernest, F. C. Pearson, and A. W. Berndt, London, England. Laminar suspension or shock-absorbing springs for use on vehicles and aircraft. No. 1,388,525; Aug. 23; v. 289; p. 689.
- Owings, Charles. (See Ike, M., Owings, Butcher, and Dawson.)
- Owl Fumigating Corporation. (See Dingle, William G., assignor.) (Reissue.)
- "Owl" Headlight Company. (See Von Vargyas, Eugene, assignor.)
- Oxweld Acetylene Company. (See Heyman, Benjamin.)
- Oxweld Acetylene Company. (See Smith, Frank W., assignor.)
- Oxygenator Company, The. (See Olson, Cyrus B., assignor.)
- Oyen, Henry M., Chicago, Ill. Lung-exercising device. No. 1,392,700; Oct. 4.
- Oyster, Earl F. (See Carman, E. S., and Oyster.)
- Ozaki, Haruhiko, Yokohama, Japan. Electric incandescent lamp. No. 1,374,766; Apr. 12; v. 285; p. 309.
- Ozepeck, Frank A., Seattle, Wash. Valve-grinder. No. 1,368,829; Feb. 15; v. 283; p. 486.
- Ozlek, Herman, Philadelphia, Pa. Swing. No. 1,396,776; Nov. 15.
- Ozment, Henry M., Schoolfield, Va. Loom picker-head. No. 1,369,046; Feb. 22; v. 283; p. 567.
- Ozmo Oil Refining Company. (See Wheeler, Willoughby M., assignor.)
- Ozols, John W., Bridgeport, Conn. Means for autographing sensitive photographic material. No. 1,376,033; Apr. 26; v. 285; p. 646.
- Ozone Company of America. (See Gest, William E., assignor.)
- Ozone Company of America. (See Lindemann, William G., assignor.)
- P. A. Geier Company, The. (See Geier, P. A., and Robertson, assignors.)
- P. & F. Manufacturing Company. (See Pinder, Roland C., assignor.)
- P & M Company. (See Barnett, Otto R., assignor.)
- P & M Company, The. (See Berkeley, Laurence J., assignor.)
- P & M Company, The. (See Blair, Rolandis A., assignor.)
- P & M Company, The. (See Poor, Fred A., assignor.)
- P & M Company, The. (See Warr, Harold G., assignor.)
- P. R. B. Pump Co. (See Price, S. C., and Richardson, assignors.)
- Pabst, Josef, Zurich, Switzerland. Safety-holder for neckties. No. 1,394,441; Oct. 18.
- Pace, Marino, Homer City, Pa. Railway-tie. No. 1,400,375; Dec. 13.
- Pace, Vara L., Beaumont, Tex. Building-block. No. 1,367,497; Feb. 1; v. 283; p. 123.
- Pachesa, Peter C., Taylor Springs, Ill. Sash-holder. No. 1,373,145; Mar. 29; v. 284; p. 858.
- Pachko, Gregory, Detroit, Mich. Safety-envelop. No. 1,391,493; Sept. 20; v. 290; p. 544.
- Pachmayer, Anna M. (See Kerr, Andrew J., assignor.)
- Pacht, Olaf K., New York, N. Y. Seat. No. 1,373,200; Mar. 29; v. 284; p. 870.
- Pacific Automotive Company. (See Meyers, Frederick O., assignor.)
- Pacific Car & Foundry Co. (See Dow, Leander A., assignor.)
- Pacific Car & Foundry Co. (See Falco, Frank T., assignor.)
- Pacific Coast Borax Company. (See Hecker, George, assignor.)
- Pacific Evaporator Company. (See Wittenberg, Ralph S., assignor.)
- Pacific Folding Box Factory. (See Gruenberg, Raoul J., assignor.)
- Pacific R. & H. Chemical Corporation, The. (See Neuls, Joseph D., assignor.)
- Pacific Spring Bed Co. (See Stackhouse, George, assignor.)
- Pacific Wann Evaporator Co. (See Wann, John T., assignor.)
- Package Machinery Company. (See Smith, Elmer L., assignor.)
- Packard, John C., Denver, Colo. Stabilizer for war-airships. No. 1,365,188; Jan. 11; v. 282; p. 264.
- Packard, John C., Denver, Colo. Stabilizer for airships. No. 1,370,041; Mar. 1; v. 284; p. 54.
- Packard, Joseph S., Brooklyn, N. Y. Time hand-stamp. No. 1,377,786; May 10; v. 286; p. 326.
- Packard Motor Car Company. (See Ashmun, Ernest E., assignor.)
- Packard Motor Car Company. (See Church, Harold D., assignor.)
- Packard Motor Car Company. (See Derr, Charles E., assignor.)
- Packard Motor Car Company. (See Druar, Frank J., assignor.)
- Packard Motor Car Company. (See Elliott, Harold W., assignor.)
- Packard Motor Car Company. (See Goddard, George E., assignor.)
- Packard Motor Car Company. (See Hunt, Ormond E., assignor.)
- Packard Motor Car Company. (See Jolls, Le Roy E., assignor.)
- Packard Motor Car Company. (See Jones, Herbert S., assignor.)
- Packard Motor Car Company. (See Lipps, Evrah C., assignor.)
- Packard Motor Car Company. (See Loomis, Allen, assignor.)
- Packard Motor Car Company. (See Lynn, George F., assignor.)
- Packard Motor Car Company. (See McCain, George L., assignor.)
- Packard Motor Car Company. (See Moorhouse, Alfred, assignor.)
- Packard Motor Car Company. (See Ofeldt, Frank W., assignor.)
- Packard Motor Car Company. (See Stanbrough, Duncan G., assignor.)
- Packard Motor Car Company. (See Stout, William B., assignor.)
- Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
- Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
- Packard Motor Car Company. (See Woolson, Lionel M., assignor.)



- Packard, Raymond P., Tacoma, Wash. Sales-slip. No. 1,401,812; Dec. 27.
- Packer, Alfred H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Combined circuit-breaker and switch. No. 1,367,085; Feb. 1; v. 283; p. 40.
- Packer, Courtland N., Battle Creek, Mich. Two-cycle engine. No. 1,389,156; Aug. 30; v. 289; p. 868.
- Packer, Eben R., New Rochelle, N. Y. Railway snow-dancer. No. 1,394,112; Oct. 18.
- Packers, Machinery & Equipment Co., The. (See Jordan, Robert E., assignor.)
- Packwood, Charles W., Fort Dodge, assignor of four-twentieths to F. O. Smokstad, Clear Lake, two-twentieths to J. Hyde, one-twentieth to J. G. Porter, one-twentieth to H. Anderson, one-twentieth to R. M. Dalbey, and one-twentieth to G. B. Nettles, Fort Dodge, Iowa. Electrical signal-gate. No. 1,366,131; Jan. 18; v. 282; p. 487.
- Pacz, Aladar, Cleveland Heights, Ohio. Alloy. No. 1,387,900; Aug. 16; v. 289; p. 509.
- Pacz, Aladar, Cleveland Heights, Ohio. Improving ferrous metals. No. 1,396,276; Nov. 8.
- Pacz, Aladar, Cleveland, Ohio, assignor to General Electric Company. Manufacture of steel. No. 1,373,908; Apr. 5; v. 285; p. 103.
- Padden, Robert W., Kansas City, Mo. Vehicle-wheel. No. 1,393,694; Oct. 11.
- Paddleford, Oliver M., Los Angeles, Calif. Lock. No. 1,367,086; Feb. 1; v. 283; p. 41.
- Paddleford, Oliver M., Los Angeles, Calif. Lock. No. 1,383,562; July 5; v. 288; p. 62.
- Pade, George V. and C. T. Neitzel, assignors to American Art Needle Company, Dallas, Tex. Embroidery-needle. No. 1,371,976; Mar. 15; v. 284; p. 533.
- Pade, George V. and C. T. Neitzel, assignors to American Art Needle Company, Dallas, Tex. Needle for hand-embroidery and similar work. No. 1,371,977; Mar. 15; v. 284; p. 533.
- Paden, William L., assignor to American Cash Register Company, Saginaw, Mich. Cash-register. No. 1,396,277; Nov. 8.
- Padget, Henry D., St. Louis, Mo. Brass and packing guard for car-axle boxes. No. 1,368,830; Feb. 15; v. 283; p. 486.
- Padgett, George H., Pine Castle, Fla. Transmission-casing. No. 1,366,677; Jan. 25; v. 282; p. 639.
- Paeplow, Charles H., Buffalo, N. Y. Apparatus for use in making belts or the like. No. 1,380,833; June 7; v. 287; p. 98.
- Paey, George W., Haverhill, Mass. Jack. No. 1,372,826; Mar. 29; v. 284; p. 795.
- Paff, Charles, New York, N. Y. Metallic tie. No. 1,389,069; Aug. 30; v. 289; p. 851.
- Paffrath, Ernst. (See Meiners, August H., assignor.)
- Page, Albert A., East Haven, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,368,409; Feb. 15; v. 283; p. 403.
- Page, Albert E., Brooklyn, assignor to Scott and Williams, Inc., New York, N. Y. Tucking attachment for knitting-machines. No. 1,367,425; Feb. 1; v. 283; p. 108.
- Page, Albert E., Laconia, N. H., assignor to Scott and Williams, Inc., Boston, Mass. Yarn-feed for knitting-machines. No. 1,388,749; Aug. 23; v. 289; p. 732.
- Page, Alfred C. (See Pohle, Walter B., assignor.)
- Page, Caleb D., Greeley, Colo. Anchor device. No. 1,366,744; Jan. 25; v. 282; p. 652.
- Page, Edwin L., Bridgeport, Calif. Safety-razor. No. 1,387,935; Aug. 16; v. 289; p. 515.
- Page, Edwin L., Oakland, Calif. Vise appliance. No. 1,387,936; Aug. 16; v. 289; p. 515.
- Page, Frank H., Waverly, Iowa. Hog-feeder. No. 1,387,997; Aug. 16; v. 289; p. 527.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Wing and similar member of aircraft. No. 1,394,343; Oct. 18.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Wing and similar member of aircraft. No. 1,394,344; Oct. 18.
- Page, Harry, Newark, Ill. Dumping-wagon. No. 1,394,113; Oct. 18.
- Page, Henry B., Greenville, Miss. Dirigible headlight for motor-vehicles. No. 1,400,975; Dec. 20.
- Page, John W., Chicago, Ill. Excavating-shovel. No. 1,379,311; May 24; v. 286; p. 742.
- Page-Lewis Arms Company. (See Lewis, George S., assignor.)
- Page, Louis A., assignor of one-half to E. B. Evans, Providence, R. I. Safety-catch. No. 1,376,899; May 3; v. 286; p. 99.
- Page, Peter, Pawtucket, R. I. Safety-lock for windows and the like. No. 1,387,302; Aug. 9; v. 289; p. 337.
- Page, Stanley H., San Francisco, and J. B. Struble, Oakland, Calif. Controlling means for motor-temperatures. No. 1,393,902; Oct. 18.
- Page, Stephen E., Brooklyn, assignor to United Concrete Pipe Co., New York, N. Y. Pipe-joint. No. 1,377,024; May 3; v. 286; p. 123.
- Page, Victor W., assignor to The New Departure Manufacturing Company, Bristol, Conn. Clutch mechanism. No. 1,376,033; Apr. 26; v. 285; p. 646.
- Pagau, Francois, Montreal, Quebec, Canada. Boot and shoe. No. 1,386,651; Aug. 9; v. 289; p. 207.
- Pagel, William F., Sycamore, Ill. Means for fuel-feed for internal-combustion engines. No. 1,371,260; Mar. 15; v. 284; p. 394.
- Pagelsen, Edward N., Detroit, Mich. Tilting locking steering-wheel. No. 1,365,846; Jan. 18; v. 282; p. 432.
- Pagelsen, Edward N., Detroit, Mich. Non-slip device for vehicle-wheels. No. 1,395,354; Nov. 1.
- Paget-Cooke, Henry, et al., executors. (See Aveline, Georges, assignor.)
- Pahmeyer, Frederick O., and S. B. Clay, assignors to Heine Safety Boiler Company, St. Louis, Mo. Reaming-machine. No. 1,399,073; Dec. 6.
- Pabud, John, and J. Huguenin, Lausanne, Switzerland. Self-controlling apparatus for stamping tickets. No. 1,368,831; Feb. 15; v. 283; p. 486.
- Paige, Arthur E. (See Hurley, Richard, assignor.)
- Paige, Arthur E., Philadelphia, Pa. Spring-wheel. No. 1,376,726; May 3; v. 286; p. 65.
- Paige, William R., Sheffield, England. Cutting-tool for use in lathes, planing-machines, and the like. No. 1,367,087; Feb. 1; v. 283; p. 41.
- Paine, Arthur P., assignor to Winchester Repeating Arms Company, New Haven, Conn. Handlamp. No. 1,398,736; Nov. 29.
- Paine, Cecil E., Bath, Me. Hydraulic power transmission. No. 1,373,568; Apr. 5; v. 285; p. 37.
- Paine Company. (See Paine, M. H., and Williams, assignors.)
- Paine Company, The. (See Paine, Mathew H., assignor.)
- Paine, Harry W. (See Smith, A. A., and Paine.)
- Paine, Henry W., Eagle Grove, Iowa. Valve-spring-compressing tool. No. 1,401,920; Dec. 27.
- Paine, Mathew H., Glenellyn, Ill., assignor to The Paine Company, Chicago, Ill. Contractible core. No. 1,396,289; Nov. 8.
- Paine, Mathew H., Glenellyn, and W. S. Williams, Chicago, Ill., assignors to Paine Company. Anchoring device. No. 1,396,278; Nov. 8.
- Paine, Mathew H., Glenellyn, and W. S. Williams, Chicago, Ill., assignors to Paine Company. Anchoring device. No. 1,396,279; Nov. 8.
- Painter, Herbert. (See Lieberg, Frederick W. G., assignor.)
- Painter, Walter S., New York, N. Y. Concrete building. No. 1,369,294; Feb. 22; v. 283; p. 614.
- Painter, Walter S., New York, N. Y. Erecting means for buildings of sectional construction. No. 1,369,295; Feb. 22; v. 283; p. 614.
- Painter, Walter S., New York, N. Y. Concrete building. No. 1,369,296; Feb. 22; v. 283; p. 614.
- Pajewski, Stephen, Natrona, Pa. Nut-lock. No. 1,392,209; Sept. 27; v. 290; p. 762.
- Palahnuik, Onufry, Ford, Ontario, Canada. Animal-trap. No. 1,387,803; Aug. 16; v. 289; p. 490.
- Palé, Paul, Los Angeles, Calif. Mechanical movement. No. 1,378,191; May 17; v. 286; p. 455.
- Pallich, Martin B., Chicago, Ill. Sack-holding device. No. 1,401,723; Dec. 27.
- Palij, Michal, Chicago, Ill. Mask. No. 1,401,724; Dec. 27.
- Palladay, George H., Redondo Beach, Calif. Life-preserver. No. 1,385,581; July 26; v. 288; p. 686.
- Pallette, Melville A., Independence, Mo. Oil-well cleaner. No. 1,400,765; Dec. 20.
- Palm, Arthur W., Minneapolis, Minn. Storm-sash holder. No. 1,388,881; Aug. 30; v. 289; p. 813.
- Palmbush, Andrew H., Conrad, Mont. Shock-forming device. No. 1,389,779; Sept. 6; v. 290; p. 44.
- Palmer, Alfred T., Medford, Mass. Calling device. No. 1,388,368; Aug. 23; v. 289; p. 658.
- Palmer, Alfred T., Medford, Mass. Signaling device. No. 1,388,369; Aug. 23; v. 289; p. 659.
- Palmer, Alva L., Jamaica, N. Y. Cover-removing device for furnaces. No. 1,390,581; Sept. 13; v. 290; p. 296.
- Palmer-Bee Company. (See McBride, Jesse E., assignor.)
- Palmer, Charles G., Newark, N. J. Door-lock. No. 1,391,005; Sept. 20; v. 290; p. 445.
- Palmer, Charles L., and J. R. Hollister, Sleepy Eye, Minn. Wild-pea separator. No. 1,368,746; Feb. 15; v. 283; p. 470.
- Palmer, Charles S., Pittsburgh, Pa. Apparatus for treating mixed gases. No. 1,364,136; Jan. 4; v. 282; p. 17.
- Palmer, Charles S., Pittsburgh, Pa. Composition for protective coatings. No. 1,395,451; Nov. 1.
- Palmer, Charles W. (See Briggs, J. F., and Palmer.)
- Palmer, Chester M., Aurora, Ill. Animal-shears. No. 1,388,439; Aug. 23; v. 289; p. 673.
- Palmer, David, Chicago, Ill. Cigarette-holder. No. 1,391,071; Sept. 20; v. 290; p. 458.
- Palmer, Eleanore L. D., New Brighton, Pa. Bathtub. No. 1,393,310; Oct. 11.
- Palmer, Elias H., Charleston, S. C. Engine. No. 1,385,266; July 19; v. 288; p. 546.
- Palmer, Ernest W., assignor to Toronto Type Foundry Company, Limited, Toronto, Ontario, Canada. Sheet-feeding mechanism for paper and the like. No. 1,394,574; Oct. 25.
- Palmer, Ethan, and V. Stevens, Spokane, Wash. Bicycle-support. No. 1,364,407; Jan. 4; v. 282; p. 70.
- Palmer, Eugene G. (See Townsend, Floyd E., assignor.)
- Palmer, George L. W., Plainfield, N. J. Projecting apparatus. No. 1,388,193; Aug. 23; v. 289; p. 622.
- Palmer, Harold N., Putnam, Conn. Tractor attachment. No. 1,388,750; Aug. 23; v. 289; p. 751.



*Alphabetical list of patentees—Continued.*

- Palmer, Harry E., *et al.* (See Harsen, William N., assignor.)
- Palmer, Harry E., assignor to Auto Specialty Co., Inc., Burlington, Vt. License-holder. No. 1,385,949; July 26; v. 288; p. 760.
- Palmer, Herbert R., Cleveland Heights, assignor of one-half to C. A. Burke, Cleveland, Ohio. Means for protecting battery-anodes. No. 1,376,034; Apr. 26; v. 285; p. 647.
- Palmer, Herman D., assignor to Kissel Motor Car Company, Hartford, Wis. Oil-basin. No. 1,396,050; Nov. 8.
- Palmer, Joel C. R., New Rochelle, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,386,725; Aug. 9; v. 289; p. 222.
- Palmer, John F. (See Bennett, C. H., Palmer, and Wedlock.)
- Palmer, John F., Milwaukee, Wis. Brush-handle connection. No. 1,397,899; Nov. 22.
- Palmer, Lyndon C., Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada. Paper feeding and cutting mechanism. No. 1,386,019; Aug. 2; v. 289; p. 11.
- Palmer, M. H. (See Hogue, John C., assignor.)
- Palmer, Miguel J., *et al.* (See Sanchez, Leonardo, assignor.)
- Palmer, Ray B., Norwich, N. Y. Ironing-board. No. 1,381,076; June 7; v. 287; p. 145.
- Palmer, Richard, Teaneck, N. J. Rectal syringe. No. 1,373,018; Mar. 29; v. 284; p. 834.
- Palmer, Robert, Schenectady, N. Y., assignor to General Electric Company. Making tubes. No. 1,394,935; Oct. 25.
- Palmer, Robert K., and W. G. Milne, Hamilton, Ontario, Canada. Flange-bending machine. No. 1,366,331; Jan. 18; v. 282; p. 526.
- Palmer, Samuel A. (See Hedrick, H. J., and Palmer.)
- Palmer, Stanley W., assignor to S. McClure, Beaver Dam, Wis. High-closet bracket for ranges. No. 1,400,569; Dec. 20.
- Palmer, Thomas H., Melbourne, Victoria; H. V. Seale and R. D. Nevett, Broken Hill, New South Wales, Australia. Flotation separation of mineral substances. No. 1,401,435; Dec. 27.
- Palmer, William F., Charleston, W. Va. Crosstie. No. 1,388,751; Aug. 23; v. 289; p. 733.
- Palmer, William H., Yale, Mich. Culinary implement. No. 1,374,096; Apr. 5; v. 285; p. 139.
- Palmer, William H., Montreal, Quebec, Canada. Nut-lock. No. 1,376,159; Apr. 26; v. 285; p. 671.
- Palmer, William H., Cleveland, Ohio. Sanitary mouth-piece for telephone-transmitters. No. 1,396,660; Nov. 8.
- Palmer, William H., and G. E. Davies, Montreal, Quebec, Canada. Mast-trimming mechanism. No. 1,380,735; June 7; v. 287; p. 78.
- Palmer, William H., Jr., Wyncote, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Storage-battery connector. No. 1,383,845; July 5; v. 288; p. 122.
- Palmer, William M., Buffalo, N. Y. Advertising device. No. 1,380,497; June 7; v. 287; p. 33.
- Palmer Limited. (See Fairbairn, Francis A., assignor.)
- Palmeter, William E., Elmwood, Nebr. Concrete-mixer. No. 1,388,118; Aug. 16; v. 289; p. 551.
- Palmgren, Nils A., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Roller-bearing. No. 1,397,142; Nov. 15.
- Palmgren, Nils G. (See Betulander, G. A., and Palmgren.)
- Paloheimo, Frans A., Helsinki, Finland. Cultivator and weed-cutter. No. 1,371,706; Mar. 15; v. 284; p. 489.
- Paloheimo, Weli K. A., Helsingfors, Finland. Stump-pulling mechanism. No. 1,383,995; July 5; v. 288; p. 153.
- Palosky, F. C. and S. Zimmermann, Pontiac, Mich. Curtain and shade fixture. No. 1,384,273; July 12; v. 288; p. 260.
- Pancoast, William G., and W. J. Grotenhuis, Chicago, Ill., assignors, by mesne assignments, to American Chain Company. Bumper. No. 1,374,893; Apr. 12; v. 285; p. 334.
- Pancoast, William G., and W. J. Grotenhuis, Chicago, assignors to Bifex Products Company, Waukegan, Ill. Attaching-bracket. No. 1,379,778; May 31; v. 286; p. 903.
- Pandermaalv, Paul, *et al.* (See Miller, William G., assignor.)
- Pando, Adolfo E., Buenos Aires, Argentina. Stripping and husking machine. No. 1,379,208; May 24; v. 286; p. 722.
- Panek, Emil, assignor to The Globe Machine & Stamping Co., Cleveland, Ohio. Hinge construction. No. 1,374,602; Apr. 12; v. 285; p. 278.
- Panes, Isidore, New York, N. Y. Brassière. No. 1,379,416; May 24; v. 286; p. 761.
- Panian, Martin, Eveleth, Minn. Cobbler's cabinet. No. 1,387,303; Aug. 9; v. 289; p. 357.
- Panik, Joseph, and S. Clebo, West Park, Ohio. Churn-operating mechanism. No. 1,398,112; Nov. 22.
- Pankrath, Otto, Rannheim, Main, Germany. Centrifugal machine. No. 1,387,661; Aug. 16; v. 289; p. 461.
- Pankratz, Jess E., Cleveland, Ohio. Key. No. 1,370,552; Mar. 8; v. 284; p. 197.
- Pannier, Arthur A., Salt Lake City, Utah. Combination-pliers. No. 1,364,137; Jan. 4; v. 282; p. 17.
- Pannier, Arthur A., Salt Lake City, Utah. Ear-tag. No. 1,376,223; Apr. 26; v. 285; p. 683.
- Pannier, Arthur A., Salt Lake City, Utah. Combined hand and self inking stamp. No. 1,401,436; Dec. 27.
- Panoff, Nicholas B., Brooklyn, N. Y. Fountain-pen. No. 1,400,311; Dec. 13.
- Panoulas, Panayiotis. (See White, George, assignor.)
- Pansa, Andrea G. M., Bristol, R. I. Automobile signaling device. No. 1,382,929; June 28; v. 287; p. 659.
- Pantaleone, Joseph, and M. Zoda, Trenton, N. J. Sidewalk snow-sweeper. No. 1,393,640; Oct. 11.
- Pantcheff, Sophocles X., Buckhurst Hill, England. Kite. No. 1,375,970; Apr. 26; v. 285; p. 634.
- Panther Rubber Manufacturing Company. (See Bernstein, William, assignor.)
- Panyity, George, Columbus, Ohio. Traveling-bag. No. 1,368,523; Feb. 15; v. 283; p. 426.
- Panzner, Joseph F. (See Wareham, S. L., and Panzner.)
- Panzner, Martin, Schenectady, N. Y. Curtain and shade holder. No. 1,385,267; July 19; v. 288; p. 546.
- Paoli, Cesare, assignor of one-half to G. F. Gillespie, Los Angeles, Calif. Finishing-wheel. No. 1,377,598; May 10; v. 286; p. 289.
- Paolicelli, Eustace, New York, N. Y. Pump. No. 1,397,179; Nov. 15.
- Pape, August H., Kentfield, assignor of one-half to W. B. Larkins, San Francisco, Calif. Antiglare and rain attachment for automobiles. No. 1,366,022; Jan. 18; v. 282; p. 466.
- Pape, Herman G., New York, N. Y. Ear-appliance mounting. No. 1,395,864; Nov. 1.
- Papendell, Robert, Detroit, Mich. Oil-burner. No. 1,384,085; July 12; v. 288; p. 220.
- Paper Products Machine Co. (See Shepherd, Joe V. R., assignor.)
- Paper Products Machine Company. (See Howard, Charles H., assignor.)
- Paper Products Machine Company. (See Shepherd, Joe V. R., assignor.)
- Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Key attachment for electric-lamp sockets. No. 1,365,722; Jan. 18; v. 282; p. 407.
- Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Faucet-clamp. No. 1,380,923; June 7; v. 287; p. 115.
- Papini, Antonio, assignor to A. Mecky Company, Philadelphia, Pa. Switch and contact mechanism for electric-current-regulating plugs and sockets. No. 1,383,011; June 28; v. 287; p. 675.
- Papot, James A., Tucson, Ariz. Brick. No. 1,394,759; Oct. 25.
- Pappanikolaou, George, Petersburg, Va. Cigarette. No. 1,374,466; Apr. 12; v. 285; p. 252.
- Pappas, Harry N., Okmulgee, Okla. Protecting-armor for tires. No. 1,388,597; Aug. 23; v. 289; p. 703.
- Pappas, Nick G., Hanna, Wyo. Aeroplane. No. 1,395,204; Oct. 25.
- Paque, Edward J., assignor to The Pollak Steel Company, Cincinnati, Ohio. Machine for forming metal blanks. No. 1,374,223; Apr. 12; v. 285; p. 204.
- Paque, Edward J., assignor to The Pollak Steel Company, Cincinnati, Ohio. Machine for forging articles from metal blanks. No. 1,386,726; Aug. 9; v. 289; p. 222.
- Paque, Edward J., assignor to The Pollak Steel Company, Cincinnati, Ohio. Forming metal articles. No. 1,396,281; Nov. 8.
- Paque, Edward J., assignor to The Pollak Steel Company, Cincinnati, Ohio. Reinforce-bar. No. 1,400,570; Dec. 20.
- Paquette, Herman A., Chicago, Ill. Burner. No. 1,391,494; Sept. 20; v. 290; p. 544.
- Paquette, Origene J., Southbridge, Mass., assignor to The Stephen Richard Company, Inc. Gage-knife. No. 1,384,916; July 19; v. 288; p. 474.
- Paradis, Oswald, Central Falls, R. I. Shovel. No. 1,372,722; Mar. 29; v. 284; p. 774.
- Paragon Machine Tool & Manufacturing Company, The. (See Thieme, William H., assignor.)
- Paramount Hosiery Form Drying Co. (See Kelly, J. H., and Prosser, assignors.)
- Paramount Knitting Company, *et al.* (See Cordin, E. A., and Stanley, assignors.)
- Paramount Rubber Consolidated. (See Roberts, Fred T., assignor.)
- Paramount Rubber Consolidated. (See Roberts, William E., assignor.)
- Paranteau, George R., Simi, Calif. Fruit-pitting machine. No. 1,392,518; Oct. 4.
- Paranteau, George R., Ventura, Calif. Knife for fruit-pitting machines. No. 1,392,519; Oct. 4.
- Paranteau, George R., Ventura, Calif. Fruit-holder for pitting-machines. No. 1,392,520; Oct. 4.
- Parchert, Frederick L., Brooklyn, assignor to Apsley Rubber Company, Hudson, Mass. Shoe-rack. No. 1,401,356; Dec. 27.
- Paré, Oscar, Longue-Pointe, Quebec, Canada. Apparatus for raising the temperature of liquids. No. 1,372,901; Mar. 29; v. 284; p. 811.
- Pareira, Aaron M., Marinette, Wis. Water-cooling system for internal-combustion engines. No. 1,373,445; Apr. 5; v. 285; p. 13.



*Alphabetical list of patentees—Continued.*

- Parent, James A., assignor of one-half to T. S. Richard, Detroit, Mich. Gas-pressure-reducing device. No. 1,377,970; May 10; v. 286; p. 361.
- Parent, Raymond C., Chicago, Ill. Soldering-iron. (Re-issue.) No. 15,202; Sept. 27; v. 290; p. 778.
- Parent, Wilfred A., Salem, Mass. Adjustable support. No. 1,396,777; Nov. 15.
- Parfett, Frank. (See Buckle, G. F., and Parfett.)
- Parham Auto Patents Corporation. (See Parham, William H., assignor.)
- Parham, William F., West Asheville, N. C. Rail-chair. No. 1,394,638; Oct. 25.
- Parham, William H., assignor to Parham Auto Patents Corporation, Knoxville, Tenn. Vehicle-tire fastener. No. 1,395,205; Oct. 25.
- Parham, William H., assignor to Parham Auto Patents Corporation, Knoxville, Tenn. Vehicle-tire fastener. No. 1,394,206; Oct. 25.
- Parham, William H., assignor to Parham Auto Patents Corporation, Knoxville, Tenn. Vehicle-tire fastener. No. 1,396,778; Nov. 15.
- Parham, William H., assignor to Parham Auto Patents Corporation, Knoxville, Tenn. Vehicle-tire fastener. No. 1,393,603; Nov. 29.
- Paris, Auguste J., Jr., Bradford, Pa. Distilling and cracking petroleum and analogous oils. No. 1,367,828; Feb. 8; v. 283; p. 244.
- Paris, Auguste J., Jr., Bradford, Pa. Distilling solids and liquids and of cracking solids, liquids, and gases. No. 1,392,788; Oct. 4.
- Paris, Auguste J., Jr., Charleston, W. Va. Separating useful products from the exhaust of internal-combustion engines. No. 1,388,480; Aug. 23; v. 289; p. 681.
- Paris, Ezekiel N., Shawnee, Okla. Churn. No. 1,392,789; Oct. 4.
- Pariser, Robert. (See Draenert, Johannes, assignor.)
- Parisian Novelty Company. (See Komorous, Joseph, assignor.)
- Park, Andrew J., Wellington, New Zealand. Water-heater. No. 1,372,447; Mar. 22; v. 284; p. 630.
- Park, George I., Burlington, Ontario, assignor of one-third to G. Swanwick and one-third to C. Montag, Hamilton, Ontario, Canada. Seat-raising attachment for theater-chairs or the like. No. 1,374,467; Apr. 12; v. 288; p. 252.
- Park, Ira L., Washington, D. C. Suspension means for electric-lighting fixtures. No. 1,394,575; Oct. 25.
- Park, James D., Duluth, Minn. Tractor tread-shoe. No. 1,375,315; Apr. 19; v. 285; p. 478.
- Park, Leonorr L., and W. W. Byles, St. Louis, Mo. Rim expanding and contracting tool. No. 1,391,526; Sept. 20; v. 290; p. 551.
- Park, Russell J., St. Louis, Mo. Artificial tooth. No. 1,386,798; Aug. 9; v. 289; p. 237.
- Park, Young N., Dinuba, Calif. Fishing-rod. No. 1,377,787; May 10; v. 286; p. 326.
- Parke, Davis & Company. (See Aldrich, Thomas B., assignor.)
- Parke Davis & Company. (See Clover, Alphonso M., assignor.)
- Parke, Peter. (See Weaver, J. B., and Parke.)
- Parke, Peter, assignor to The Pullman Company, Chicago, Ill. Equalizer for car-trucks. No. 1,400,693; Dec. 20.
- Parker, Alexander, Etna Mills, Calif. Apparatus for controlling tide-waters. No. 1,389,212; Aug. 30; v. 289; p. 879.
- Parker, Alexander, Etna Mills, Calif. Debris or sediment collector. No. 1,393,389; Oct. 11.
- Parker, Alfred B., Monroe, La. Typewriter. No. 1,370,992; Mar. 8; v. 284; p. 280.
- Parker, Charles. (See Meyers, S. A., and Parker.)
- Parker, Charles W. (See Johnson, Charley, assignor.)
- Parker, Charles W. (See Phillips, Louis, assignor.)
- Parker, Clarence L., Los Angeles, Calif. Variable-pitch propeller for airplanes. No. 1,386,274; Aug. 2; v. 289; p. 62.
- Parker, Clark W. (See Hastings, R. W., and Parker.)
- Parker, Clark W., New York, N. Y. Tractor-axle. No. 1,367,088; Feb. 1; v. 283; p. 41.
- Parker, Clark W., New York, N. Y. Tractor axle and wheel. No. 1,380,583; June 7; v. 287; p. 49.
- Parker, Clark W., New York, N. Y. Lubricator for vehicle-brakes. No. 1,380,584; June 7; v. 287; p. 49.
- Parker, Clark W., New York, N. Y. Brake mechanism. No. 1,393,390; Oct. 11.
- Parker, Dempsey P., Osteen, Fla. Rail-joint. No. 1,392,790; Oct. 4.
- Parker, Fred G., Paterson, N. J. Seat. No. 1,369,047; Feb. 22; v. 283; p. 567.
- Parker, Fred G., Paterson, N. J. Seating-appliance. No. 1,400,974; Dec. 20.
- Parker, Frederick R., Chicago, Ill. Voltaic cell and electrode. No. 1,366,095; Jan. 18; v. 282; p. 480.
- Parker, Frederick A. (See Nuss, A. J., and Parker.)
- Parker, George C., Expo, assignor of one-third to D. J. Alexander, and one-third to A. Fields, Norfolk, Va. Metal folding shipping-case. No. 1,369,704; Feb. 22; v. 283; p. 694.
- Parker, George F. (See Dennis, Thomas L., assignor.)
- Parker, Harold. (See Gardner, C. R. P., and Parker.)
- Parker, Henry R., Norristown, Pa. Needle-loom. No. 1,364,138; Jan. 4; v. 282; p. 17.
- Parker, Henry W., Little Rock, Ark. Apron. No. 1,389,689; Sept. 6; v. 290; p. 26.
- Parker, Horace F. (See Quimby, G. R., and Parker.)
- Parker, Howard, assignor to Brown Company, Berlin, N. H. Machine for straightening and sizing tubular bodies made from pulp. No. 1,374,318; Apr. 12; v. 285; p. 222.
- Parker, Howard, assignor to Brown Company, Berlin, N. H. Core for rolls of paper. No. 1,397,143; Nov. 15.
- Parker, Howard, Berlin, N. H., assignor to Brown Company, Portland, Me. Core for rolls of paper and the like. No. 1,397,542; Nov. 22.
- Parker, Howell P., et al. (See Brown, Theophilus M., assignor.)
- Parker, John, Philadelphia, Pa. Suspension-bearing. No. 1,390,582; Sept. 13; v. 290; p. 297.
- Parker, John B. (See Fountain, J. B., and Parker.)
- Parker, John B., Brookland, D. C. Electric switch. No. 1,393,822; Oct. 18.
- Parker, John H. (See Laughton, Dugal C., assignor.)
- Parker, John J., Bridgeport, Conn. Power device for window-operators. No. 1,395,514; Nov. 1.
- Parker, John J., Bridgeport, Conn. Power for window-operators. No. 1,395,515; Nov. 1.
- Parker, John W., Detroit, Mich. High-speed spindle. No. 1,392,210; Sept. 27; v. 290; p. 762.
- Parker, Lee H., Boston, Mass., assignor to Spray Engineering Company, a Corporation of Massachusetts. Spraying water in cooling ponds. No. 1,376,112; Apr. 26; v. 285; p. 662.
- Parker, Lee H., Boston, and C. H. Landon, Wollaston, assignors to Spray Engineering Company, Boston, Mass. Spray-nozzle and distributing liquid. No. 1,380,834; June 7; v. 287; p. 98.
- Parker, Lee H., Boston, and C. H. Landon, Wollaston, assignors to Spray Engineering Company, Boston, Mass. Spray-nozzle and distributing liquid. No. 1,381,734; June 14; v. 287; p. 320.
- Parker, Lucian E., assignor to The Ohio Match Company, Wadsworth, Ohio. Machine for packing matches. No. 1,374,222; Apr. 12; v. 285; p. 204.
- Parker, Lucian E., assignor to E. J. Young, Wadsworth, Ohio. Wire-loop-twisting machine. No. 1,385,582; July 26; v. 288; p. 687.
- Parker, Mannie B., Oklahoma, Okla. Freeze-expansion-absorbing device. No. 1,381,426; June 14; v. 287; p. 261.
- Parker Manufacturing Company. (See Brown, Carl E., assignor.)
- Parker, Orrel A., Cleveland, Ohio. Demountable rim. No. 1,376,035; Apr. 26; v. 285; p. 647.
- Parker, Orrel A., Cleveland, Ohio. Automobile-wheel. No. 1,376,826; May 3; v. 286; p. 85.
- Parker, Orrel A., Cleveland, Ohio. Demountable rim. No. 1,384,274; July 12; v. 288; p. 260.
- Parker, Ralzemond D., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Half-duplex alternating-current telegraph system. No. 1,391,006; Sept. 20; v. 290; p. 445.
- Parker, Ralzemond D., and B. P. Hamilton, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Alternating-current signaling system. No. 1,383,750; July 5; v. 288; p. 102.
- Parker, Raymond J. (See Roche, J., and Parker.)
- Parker Rust-Roof Company. (See Allen, William H., assignor.)
- Parker, Thomas L., assignor to The Standard Electric Manufacturing Co., Chicago, Ill. Snap-switch. No. 1,389,213; Aug. 30; v. 289; p. 879.
- Parker, Victor A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-mold. No. 1,390,058; Sept. 6; v. 290; p. 101.
- Parker, Walter L., Co. (See Gleason, Stephen R., assignor.)
- Parker, William H., and G. L. Smyth, Montreal, Quebec, Canada. Sliding door. No. 1,394,216; Oct. 18.
- Parkersburg Rig & Reel Company. (See Bloss, R. R., and Schweimblein, assignors.)
- Parkersburg Rig & Reel Company, The. (See Bloss, Richard R., assignor.)
- Parkersburg Rig & Reel Company. (See Leland, Harry R., assignor.)
- Parke, Bertrand A., Philadelphia, Pa. Drying-machine. No. 1,379,932; May 31; v. 286; p. 932.
- Parkhill, Frederic W. (See Barclay, M., and Parkhill.)
- Parkhurst, Frederic A., assignor to The Aluminum Castings Company, Cleveland, Ohio. Making pistons. No. 1,370,553; Mar. 8; v. 284; p. 197.
- Parkhurst, Ivan P., and R. O. Neal, Kinsley, Kans. Device for indicating the density of liquids. No. 1,368,524; Feb. 15; v. 283; p. 426.
- Parkhurst, Layton M., Indianapolis, Ind., assignor, by mesne assignments, to G. B. Pitts, trustee, Cleveland, Ohio. Vending-machine. No. 1,383,996; July 5; v. 288; p. 153.
- Parkinson, Edward K., Albany, N. Y. Marking and writing device. No. 1,373,146; Mar. 29; v. 284; p. 885.
- Parkinson, George, and J. Davidson, Calgary, Alberta, Canada. Valve. No. 1,401,637; Dec. 27.
- Parkinson, William J., assignor to Eastman Kodak Company, Rochester, N. Y. Press-guard. No. 1,394,501; Oct. 18.
- Parks, Allison H., Yakima, Wash. Vegetable-grader. No. 1,379,715; May 31; v. 286; p. 892.
- Parks, Bros. & Rogers. (See Forsell, Frans E., assignor.)



## Alphabetical list of patentees—Continued.

- Parks, Charles F., Fairmount, Ind. Boat-propelling device. No. 1,379,933; May 31; v. 286; p. 932.
- Parks, Clarence L., Seattle, Wash. Photoprinting-box. No. 1,389,268; Aug. 30; v. 289; p. 891.
- Parks-Cramer Company. (See Cramer, S. W., and Hodge, assignors.)
- Parks-Cramer Company. (See Thompson, Albert W., assignor.)
- Parks, Dennis. (See Mitchell, J. E., and Parks.)
- Parks, Dennis, St. Louis, Mo. Heel-blank separator and method of and apparatus for using same. No. 1,381,735; June 14; v. 287; p. 320.
- Parks, Dennis, St. Louis, Mo. Building heel-blanks. No. 1,383,846; July 5; v. 288; p. 122.
- Parks, Dennis, St. Louis, Mo. Adjustable clamp for log-holders. No. 1,385,188; July 19; v. 288; p. 531.
- Parks, Eugene F., Winston-Salem, N. C. Insect-trap. No. 1,380,585; June 7; v. 287; p. 49.
- Parks, Fred M., Murrysville, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,401,638; Dec. 27.
- Parks, Harry S., Philadelphia, Pa., assignor to Pneumercator Company, New York, N. Y. Water-level-indicator instrument. No. 1,379,716; May 31; v. 286; p. 892.
- Parks, Ostrander J., River Forest, assignor to General American Tank Car Corporation, Chicago, Ill. Receptacle. No. 1,384,915; July 19; v. 288; p. 473.
- Parks, Ray F., deceased, Melrose, Iowa; W. E. Parks, administrator. Card game. No. 1,392,351; Oct. 4.
- Parks, Stephen E., Pillager, Minn. Washer. No. 1,368,525; Feb. 15; v. 283; p. 427.
- Parks, W. E., administrator. (See Parks, Ray F.)
- Parks, Wesley H., Bixby, Okla. Combined displaying and dispensing device. No. 1,375,169; Apr. 19; v. 285; p. 450.
- Parks & Woolson Machine Company. (See Richardson, Charles G., assignor.)
- Parkyn, Herbert A. (See Freese, Herman W., assignor.)
- Parmelee, William G., Seattle, Wash. Life-saving device. No. 1,400,976; Dec. 20.
- Parmelee, James E., assignor to L. M. Parmelee, Los Angeles, Calif. Windshield. No. 1,366,483; Jan. 25; v. 282; p. 600.
- Parmelee, Lillian M. (See Parmelee, James E., assignor.)
- Parmenter, Brady, assignor to A. L. Atwood, Birmingham, Ala. Antitheft device for automobiles. No. 1,380,010; May 31; v. 286; p. 947.
- Parmenter, Brady, assignor to A. L. Atwood, Birmingham, Ala. Chuck for taper and straight-shank drills. No. 1,398,304; Nov. 29.
- Parmenter, George A., West Medford, assignor of one-half to H. B. Leighton, Cambridge, Mass. Puzzle. No. 1,393,565; Oct. 11.
- Parmenter, Joseph J., assignor to Marshall Field & Company, Chicago, Ill. Automobile-trunk. No. 1,401,183; Dec. 27.
- Parmenter, William A., assignor to C. S. Pierce Company, Brockton, Mass. Machine for making pickers. No. 1,392,259; Sept. 27; v. 290; p. 773.
- Parmley, John, Paterson, N. J. Hat-brim stiffener. No. 1,378,977; May 24; v. 286; p. 678.
- Parmley, Lemuel D., Waynesboro, Pa. Cutter for harvesters. No. 1,370,352; Mar. 1; v. 284; p. 113.
- Parnall, Walter C. (See Gilman, C., and Parnley.)
- Parnall, George G. (See Bolas, Harold, assignor.)
- Parnell, Walter H., Jr., Brooklyn, N. Y. Automatically-regulated pendulum. No. 1,378,824; May 17; v. 286; p. 676.
- Parnes, Morris, New York, N. Y. Liquid-supplying apparatus. No. 1,395,516; Nov. 1.
- Parodi, Andres, and J. Borello, Buenos Aires, Argentina. Metallic curtain. No. 1,385,023; July 19; v. 288; p. 496.
- Parr, Albert, assignor of one-half to F. H. Ahl, Baltimore, Md. Nipple-clasp. No. 1,379,476; May 24; v. 286; p. 772.
- Parr, Henry A., New York, N. Y. Spring device for chairs. No. 1,396,661; Nov. 8.
- Parr, James E., Crystal City, Manitoba, Canada. Tire-alarm. No. 1,364,300; Jan. 4; v. 282; p. 50.
- Parran, Alice N., Baltimore, Md. Instruction device. No. 1,370,607; Mar. 8; v. 284; p. 207.
- Parret, Milton L., Marshalltown, Iowa. Moving-picture-machine shutter. No. 1,386,198; Aug. 2; v. 289; p. 47.
- Parret, Milton L., Marshalltown, Iowa. Intermittent-motion device. No. 1,386,355; Aug. 2; v. 289; p. 78.
- Parret, Milton L., Marshalltown, Iowa. Moving-picture-machine support. No. 1,394,217; Oct. 18.
- Parrino, Joseph, assignor of one-half to G. Di Girolamo, Buffalo, N. Y. Vehicle-tire. No. 1,371,186; Mar. 8; v. 284; p. 317.
- Parrish, Ernest F., et al. (See Wisenaut, Oscar H., assignor.)
- Parrish, Hale W., Chicago, Ill. Liquid-fuel burner. No. 1,394,576; Oct. 25.
- Parrish, Robert L., The Dalles, Oreg. Toy aeroplane-projectile. No. 1,375,971; Apr. 26; v. 285; p. 635.
- Parrish, Stephen E., Grand Rapids, Mich. Cloth and ribbon measuring device. No. 1,367,277; Feb. 1; v. 283; p. 78.
- Parrish, Stephen E., Grand Rapids, Mich. Measuring appliance. No. 1,367,278; Feb. 1; v. 283; p. 79.
- Parrish, Stephen E., Grand Rapids, Mich. Ribbon-meter. No. 1,398,040; Nov. 22.
- Parrish, Vernon E., Cupertino, Calif. Machine for rigging land. (Reissue.) No. 15,213; Oct. 25.
- Parry, Charles P., Liverpool, England. Apparatus for cleaning the smoke-tubes of steam-boilers. No. 1,370,353; Mar. 1; v. 284; p. 113.
- Parry, William H., Fayetteville, N. C. Flinger fence and protector. No. 1,380,410; June 7; v. 287; p. 16.
- Parschauer, Carl G., Beehive, Mont. Weeder. No. 1,384,631; July 12; v. 288; p. 335.
- Parshin, Alexander, London, England. Electrically operating mechanism from a distance. No. 1,397,449; Nov. 15.
- Parson, Charles A., and A. H. Law, Newcastle-upon-Tyne, England; said Law assignor to said Parson. Means for detecting or measuring moisture. No. 1,383,233; June 28; v. 287; p. 717.
- Parson, Eleanor D., Pinehurst, N. C. Baby-harness. No. 1,377,919; May 10; v. 286; p. 352.
- Parson, Howard E., Calgary, Alberta, Canada. Connector. No. 1,399,399; Dec. 6.
- Parsons, C. A., S. S. Cook, A. Q. Carnegie, J. Ford, and M. Bone, Newcastle-upon-Tyne, England; said Cook, Carnegie, Ford, and Bone assignors to said Parsons. Die. No. 1,379,717; May 31; v. 286; p. 892.
- Parsons, Charles A., Newcastle-upon-Tyne, and S. S. Cook, Wallsend, England; said Cook assignor to said Parsons. Forming gear-teeth. No. 1,401,550; Dec. 27.
- Parsons, Charles A., and J. Rosen, Newcastle-upon-Tyne, England; said Rosen assignor to said Parsons. Dynamo-electric machine. No. 1,392,022; Sept. 27; v. 290; p. 726.
- Parsons, Charles A., S. S. Cook, and L. M. Douglas, Wallsend, England; said Cook and Douglas assignors to said Parsons. Packing-gland for rotating bodies. No. 1,374,520; Apr. 12; v. 285; p. 262.
- Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and Douglas assignors to said Parsons. Geared-turbine system. No. 1,377,850; May 10; v. 286; p. 338.
- Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Geared-turbine systems. No. 1,377,851; May 10; v. 286; p. 338.
- Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Douglas assignor to said Parsons. Turbine-blade attachment. No. 1,387,304; Aug. 9; v. 289; p. 338.
- Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Geared turbine system. No. 1,393,391; Oct. 11.
- Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Geared turbine system. No. 1,393,392; Oct. 11.
- Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Geared turbine system. No. 1,393,393; Oct. 11.
- Parsons, Earl, Philadelphia, Pa. Bracket. No. 1,391,495; Sept. 20; v. 290; p. 544.
- Parsons, Edward E. (See West, E. A., and Parsons.)
- Parsons, Fred A. (See Goetz, J., and Parsons.)
- Parsons, Frederick W., Cleveland, Ohio. Cross-slide for lathes. No. 1,382,380; June 21; v. 287; p. 501.
- Parsons, Frederick W., Cleveland, Ohio. Turret-lathe. No. 1,387,305; Aug. 9; v. 289; p. 338.
- Parsons, Frederick W., Cleveland, Ohio. Feeding mechanism for metal-working machines. No. 1,389,975; Sept. 6; v. 290; p. 84.
- Parsons, Frederick W., Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Cover-retainer for vacuum-pumps. No. 1,372,037; Mar. 22; v. 284; p. 602.
- Parsons, Frederick W., Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve-seat retainer. No. 1,385,467; July 26; v. 288; p. 663.
- Parsons, Frederick W., Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-actuated clutch-pulley. No. 1,401,551; Dec. 27.
- Parsons, George H., New York, N. Y. Doll. No. 1,396,873; Nov. 15.
- Parsons, Harold K., Southbridge, Mass. Forming lens-blanks. No. 1,370,042; Mar. 1; v. 284; p. 54.
- Parsons, Harold K., Southbridge, Mass. Eye-protector. No. 1,385,583; July 26; v. 288; p. 687.
- Parsons Marine Steam Turbine Company. (See Black, David C., assignor.)
- Parsons, Oscar V., Afton, Iowa. Self-cleaning hand-rake. No. 1,371,109; Mar. 8; v. 284; p. 302.
- Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Means for making toilet-paper rolls. No. 1,379,718; May 31; v. 286; p. 892.
- Parsons, Philip D., Philadelphia, Pa., assignor to Scott Paper Company. Suspension device for paper-packages and the like. No. 1,379,719; May 31; v. 286; p. 892.
- Parsons, Roswell, J., and T. C. Jones, Kingsport, Tenn. Monkey-wrench. No. 1,369,705; Feb. 22; v. 283; p. 695.
- Parsons, Theodore C., Oak Park, Ill. Balance-book and supplies for use therewith. No. 1,364,408; Jan. 4; v. 282; p. 70.
- Parsons, Theodore C., Oak Park, Ill. Blank for insurance-accounting. No. 1,393,823; Oct. 18.
- Partello, Charles, Liverpool, N. Y. Hook. No. 1,399,648; Dec. 6.



## Alphabetical list of patentees—Continued.

- Partington, Charles, assignor to The Cincinnati Frog & Switch Company, Cincinnati, Ohio. Switch-stand. No. 1,391,208; Sept. 20; v. 290; p. 486.
- Partington, Charles, assignor to The Cincinnati Frog & Switch Company, Cincinnati, Ohio. Switch-stand. No. 1,395,865; Nov. 1.
- Partington, Charles H., assignor to The Cincinnati Frog & Switch Company, Cincinnati, Ohio. Connecting-rod for switch-throws. No. 1,383,334; July 5; v. 288; p. 15.
- Partington, James R., London, England. Oxidation of ammonia. No. 1,378,271; May 17; v. 286; p. 471.
- Partonnar, Ora L., Kansas City, Mo. Turntable-rack for ovens. No. 1,380,078; May 31; v. 286; p. 960.
- Partridge, Arthur S., *et al.* (See Ehrlich, Leo, assignor.)
- Partridge, Clinton E., Chicago, Ill. Garment-hanger supporter or the like. No. 1,364,638; Jan. 4; v. 282; p. 114.
- Partridge, Hugh, assignor to Partridge Tractor Company, Inc., Jacksonville, Fla. Tractor. No. 1,383,563; July 5; v. 288; p. 63.
- Partridge Tractor Company. (See Partridge, Hugh, assignor.)
- Partridge, William J., Clinton, La. Seed-stripper. No. 1,389,157; Aug. 30; v. 289; p. 868.
- Partzschfeld, Louis, Jr., New York, N. Y. Puttyless steel skylight. No. 1,379,359; May 24; v. 286; p. 751.
- Parvin, Edward G., Roselle, assignor to Zobell Electric Motor Corporation, Garwood, N. J. Commutating dynamo-electric machine. No. 1,369,297; Feb. 22; v. 283; p. 614.
- Parvin, Stanley H., Dayton, Ky. Parallel attachment for T-squares. No. 1,369,263; Feb. 22; v. 283; p. 609.
- Pascal, Charles, Montreal, Quebec, Canada. Rail-chair. No. 1,399,572; Dec. 6.
- Pascal, Paul, assignor to La Manufacture De Produits Chimiques Du Nord, Etablissements Kuhlmann, Paris, France. Process and apparatus for the manufacture of liquid sulfurous acid from dilute sulfurous-acid gas. No. 1,398,791; Nov. 29.
- Paschke, Charles H., Buffalo, N. Y. Bracket. No. 1,379,934; May 31; v. 286; p. 933.
- Pascoe, Henry T., Young, Ariz. Nut-lock. No. 1,366,829; Jan. 25; v. 282; p. 669.
- Pascoe, William H., Chicago, Ill. Oil-burning apparatus and method. No. 1,382,223; June 21; v. 287; p. 470.
- Pasik, William E., De Kalb, Ill. Electric heater. No. 1,386,356; Aug. 2; v. 289; p. 78.
- Pasinski, Walter J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,391,072; Sept. 20; v. 290; p. 459.
- Pasko, Otho E., Fond du Lac, Wis. Churn-valve. No. 1,372,244; Mar. 22; v. 284; p. 642.
- Pasnik, Alexander M., Norwich, Conn. Salt-shaker. No. 1,366,929; Feb. 1; v. 283; p. 10.
- Pasquariello, Pasquale, Hamden, Conn. Friction-brake. No. 1,383,013; June 28; v. 287; p. 676.
- Pasquariello, Pasquale, Hamden, Conn. Extension-ladder. No. 1,383,014; June 28; v. 287; p. 676.
- Passaic Metal Wire Company. (See Auferin, Jean G., assignor.)
- Passano, Leonard, Baltimore, Md., assignor to The Cities Illuminating Company, New York, N. Y. Pilot-burner. No. 1,366,591; Jan. 25; v. 282; p. 622.
- Passmore, Francis W. (See Ferguson, Alexander, assignor.)
- Pastrengo, Vittorio, San Francisco, Calif. Aerial apparatus. No. 1,396,874; Nov. 15.
- Paszko, John, Tamaroa, Ill. Coal-drill. No. 1,376,224; Apr. 26; v. 285; p. 683.
- Patak, Frank, Jersey City, N. J. Paper-feeding machine. No. 1,366,484; Jan. 25; v. 282; p. 600.
- Pate, Robert L., Springfield, Mo. Device for controlling the temperature of automobile-radiators. No. 1,392,521; Oct. 4.
- Pate, Robert L., Springfield, Mo. Device for controlling the temperature of automobile-radiators. No. 1,392,522; Oct. 4.
- Pate, Samuel G. (See Donkel, Lloyd H., assignor.)
- Pate, William T. S., Indianapolis, Ind. Mortising-machine. No. 1,397,900; Nov. 22.
- Patent Appliance Company. (See Haines, Edward P., assignor.)
- Patent Butter Company, The. (See Hart, L. J., and White, assignors.)
- Patent Button Company, The. (See White, Franklin R., assignor.)
- Patent-Freihand-Gesellschaft fuer Electricische Gluhlampen, M. B. H. (See Baumhauer, Heinrich, assignor.)
- Patent Products Company. (See Schwimmer, Oscar, assignor.)
- Patented Metalware Corporation. (See Rachlin, Max, assignor.)
- Paterson, John, Jr., Edinburg, N. D. Hoisting-hook. No. 1,386,583; Aug. 2; v. 289; p. 121.
- Paterson, Robert D., Fort Dodge, Iowa. Auxiliary lock. No. 1,398,465; Nov. 29.
- Paterson, Ronald L. (See Price, S. C., assignor.)
- Pathe Freres Phonograph Company. (See Capps, Frank L., assignor.)
- Pathe Freres Phonograph Company. (See Gruber, Morris M., assignor.)
- Pathe Freres Phonograph Company. (See Lewis, F. D., and Nemnich, assignors.)
- Pathe Freres Phonograph Company. (See Lewis, Frank D., assignor.)
- Patin, Thaddeus, Brea, Calif. Roller-bit. (Reissue.) No. 15,194; Sept. 13; v. 290; p. 377.
- Patmon, Charles G., Stockton, Calif. Device for babbitting, reaming, and straightening connecting-rods. No. 1,368,194; Feb. 8; v. 283; p. 314.
- Patnoe, Walter W. (See Mollen, J. F., and Patnoe.)
- Paton, Robert J., Bedford Park, London, England. Lubricating means. No. 1,379,282; May 24; v. 286; p. 736.
- Patremio, Martin, Lodi, N. J. Celluloid button. No. 1,382,739; June 28; v. 287; p. 624.
- Patrick, Benjamin H., Boise, Idaho. Canvas check-dam. No. 1,381,427; June 14; v. 287; p. 262.
- Patrick, F. A., *et al.* (See Pritchett, Joseph F., assignor.)
- Patrick, F. A., & Company. (See Witherell, Earl M., assignor.)
- Patricolo, Vincent. (See Pecorella, A., Patricolo, and Apel.)
- Patschke, Benjamin F. (See Fischer, Herman H., assignor.)
- Patten Bros. (See Cunniff, John V., assignor.)
- Patten, Charles H., Allentown, Pa. Fluid-differential. No. 1,374,603; Apr. 12; v. 285; p. 278.
- Patten, John H., Kent, assignor to W. T. Behne, King county, Wash. Making automobile-tires. No. 1,380,736; June 7; v. 287; p. 78.
- Patten, Nathaniel R., Minneapolis, Minn. Doughnut-machine. No. 1,389,976; Sept. 6; v. 290; p. 84.
- Patterson, Arthur L., Washington, D. C. Focusing attachment. No. 1,397,231; Nov. 15.
- Patterson, Benjamin G., Oklahoma, Okla. Combination-lock. No. 1,368,526; Feb. 15; v. 283; p. 427.
- Patterson, Carl J., and O. J. Kilburn, Jackson, Mich. Automobile-heater. No. 1,396,522; Nov. 8.
- Patterson, Clarence L., assignor to Metalwood Manufacturing Company, Detroit, Mich. Crank-shaft-straightening machine. No. 1,369,904; Mar. 1; v. 284; p. 29.
- Patterson, Curtis J., assignor to The Campbell Baking Company, Kansas City, Mo. Bread-making. No. 1,385,842; July 26; v. 288; p. 739.
- Patterson, Curtis J., and R. W. Mitchell, Kansas City, Mo. Bread-making. No. 1,370,354; Mar. 1; v. 284; p. 114.
- Patterson, David C., Omaha, Nebr. Core for hollow walls. No. 1,395,452; Nov. 1.
- Patterson, Duncan W., Cranford, N. J., and Frank A. Epps, assignors, by mesne assignments, to Foamite Fire-foam Company, New York, N. Y. Fire-extinguishing apparatus. No. 1,364,799; Jan. 4; v. 282; p. 145.
- Patterson, George F., Baltimore, Md. Stoker-grate. No. 1,395,006; Oct. 25.
- Patterson, George G., Liberty, Tex. Valve-lifter for automobiles. No. 1,368,285; Feb. 15; v. 283; p. 379.
- Patterson, John W., Oklahoma, Okla. Folding bed for automobiles. No. 1,377,852; May 10; v. 286; p. 339.
- Patterson, L. L. (See Kincaid, Archibald S., assignor.)
- Patterson, M. F., Dental Supply Company. (See Monson, George S., assignor.)
- Patterson, M. F., Dental Supply Company. (See Knapp, K. W., and Holmes, assignors.)
- Patterson, Mordaunt, *et al.* (See Tow, John Z., assignor.)
- Patterson, Thomas A., Uvalde, Tex. Washboller. No. 1,369,351; Feb. 22; v. 283; p. 626.
- Patterson, Thomas S., Rosemont, assignor to F. R. Hammett, Philadelphia, Pa. Extractor. No. 1,373,608; May 17; v. 286; p. 532.
- Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Optical projection apparatus. No. 1,365,599; Jan. 11; v. 282; p. 344.
- Patterson, William L., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Dissolving projection-lantern. No. 1,365,723; Jan. 18; v. 282; p. 407.
- Patterson, William L., assignor to Henry Motor Service Company, St. Louis, Mo. Apparatus for transporting crippled or damaged automobiles. No. 1,374,224; Apr. 12; v. 285; p. 205.
- Pattison, Albert W., Lockport, N. Y. Vaporizer hydrocarbon-burner. No. 1,383,015; June 28; v. 287; p. 676.
- Patton, Ellen M., Cincinnati, Ohio. Turned shoe, and making the same. No. 1,386,357; Aug. 2; v. 289; p. 78.
- Patton, John E., New York, N. Y. Pillow. No. 1,386,652; Aug. 9; v. 289; p. 207.
- Patton, Mathias A., Salt Lake City, Utah. Railway. No. 1,375,726; Apr. 26; v. 285; p. 583.
- Patton, William A., San Francisco, Calif. Check. No. 1,367,754; Feb. 8; v. 283; p. 230.
- Patton, William D., assignor to William H. Horn & Brother Incorporated, Philadelphia, Pa. Truss-fixture. No. 1,389,378; Aug. 30; v. 289; p. 913.
- Pattosen, William J., San Francisco, Calif. Propeller. No. 1,368,747; Feb. 15; v. 283; p. 470.
- Patts, Nick, San Antonio, Tex. Harness-tug. No. 1,399,869; Dec. 13.
- Paul, Adolf, Brooklyn, N. Y. Blade-sharpener. No. 1,388,882; Aug. 30; v. 289; p. 813.
- Paul, Charles P., Texas City, Tex. Waiterless restaurant. No. 1,389,690; Sept. 6; v. 290; p. 26.
- Paul, Edward B., assignor to Lancaster Automatic Machine Company, Lancaster, Pa. Coin-handling apparatus. No. 1,374,468; Apr. 12; v. 285; p. 252.
- Paul, Edward B., assignor to Lancaster Automatic Machine Company, Lancaster, Pa. Coin-handling apparatus. No. 1,390,583; Sept. 13; v. 290; p. 297.



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- Paul, Edward B., assignor to Lancaster Automatic Machine Company, Lancaster, Pa. Coin-handling apparatus. No. 1,390,584; Sept. 13; v. 290; p. 297.
- Paul, Hiram. (See Mills, S. D., and Paul, assignor.)
- Paul, James M., assignor of one-half to J. J. Keller, Los Angeles, Calif. Spark-plug intensifier. No. 1,392,023; Sept. 27; v. 290; p. 726.
- Paul, Jennie H. and W. R., Amarillo, Tex. Floor-mop wringer. No. 1,370,355; Mar. 1; v. 284; p. 114.
- Paul, Leon R., Wichita Falls, Tex. Toy aeroplane. No. 1,371,433; Mar. 15; v. 284; p. 429.
- Paul, William L., San Francisco, Calif., assignor to Oliver Chilled Plow Works, South Bend, Ind. Engine gang-plow. No. 1,377,025; May 3; v. 286; p. 123.
- Paul, William R. (See Paul, Jennie H. and W. R.)
- Paulero, Louis, assignor to American Electric Tool Company, Incorporated, Petersburg, Va. Non-arcng commutating switch device. No. 1,395,290; Nov. 1.
- Pauley, Edward M., Birdview, Wash. Wrench. No. 1,373,201; Mar. 29; v. 284; p. 870.
- Pauli, William, Oakland, Calif. Power-transmission for tractors. No. 1,371,930; Mar. 15; v. 284; p. 524.
- Paulick, Andreas. (See Majaroglu P., and A. Paulick.)
- Paulin, Josua G., Stockholm, Sweden. Pressure-gage log. No. 1,398,792; Nov. 29.
- Paulissen, Joseph P., Kankakee, Ill. Reinforced-concrete building. No. 1,388,752; Aug. 23; v. 289; p. 733.
- Pauli, Samuel, New York, N. Y. Combination-garment. No. 1,387,937; Aug. 16; v. 289; p. 515.
- Paulman, Henry, Glastonbury, Conn. Cutter for knitting-machines. No. 1,379,720; May 31; v. 286; p. 893.
- Paulsen, Frederick, Kansas City, Mo. Pneumatic-tire core. No. 1,368,527; Feb. 15; v. 283; p. 427.
- Paulsen, Frederick, Kansas City, Mo. Pneumatic-tire core. No. 1,379,834; May 31; v. 286; p. 914.
- Paulsen, Thomas R., Los Angeles, Calif. Track-link for tractors. No. 1,391,140; Sept. 20; v. 290; p. 473.
- Paulson, Amel L., McCook, Nebr. Lock. No. 1,386,358; Aug. 2; v. 289; p. 78.
- Paulson, Anton C., Fargo, N. D. Anvil-vice. No. 1,385,268; July 19; v. 288; p. 546.
- Paulson, Anton W., Omaha, Nebr. Air-brake lock. No. 1,389,070; Aug. 30; v. 289; p. 851.
- Paulson, Ernest W., assignor of one-half to M. S. Van Auker, Sioux City, Iowa. Stock-waterer. No. 1,372,188; Mar. 22; v. 284; p. 630.
- Paulson, Ernest W., assignor to Perfection Corn Planter Manufacturing Company, Sioux City, Iowa. Seed-dispenser-driving mechanism for corn-planters. No. 1,376,352; Apr. 26; v. 285; p. 708.
- Paulson, Hans, Orting, Wash. Gun-sight. No. 1,370,478; Mar. 1; v. 284; p. 137.
- Paulson, Peter A., Appleton, Wis. Process and apparatus for reclaiming by-products. No. 1,393,241; Oct. 11.
- Paulson, Sven and A. Hatch, Heber, Utah. Developing machine. No. 1,381,222; June 14; v. 287; p. 224.
- Paulson, Walter H., assignor to H. D. Lathrop, Chicago, Ill. Can-washing machine. No. 1,391,141; Sept. 20; v. 290; p. 473.
- Paulus, Charles F., East Orange, N. J. Percussion-cap detonator. No. 1,378,272; May 17; v. 286; p. 471.
- Paulus, George R., assignor to The United Electric Company, Canton, Ohio. Vacuum-cleaner brush. No. 1,393,695; Oct. 11.
- Pausch, Robert H. (See Woodruff, C. W., and Pausch.)
- Pautze, Hermann, Berlin, Germany. Locker for tickets in ticket-selling rooms of railway-stations. No. 1,387,662; Aug. 16; v. 289; p. 461.
- Pavitt, William H., Jr., Brooklyn, N. Y. Concrete foundation and making same. No. 1,384,402; July 12; v. 288; p. 286.
- Pavlik, John J., Jr., New Haven, Conn. Safety key-ring hook. No. 1,377,724; May 10; v. 286; p. 312.
- Pawling & Harnischfeger Company. (See Brown, Howard S., assignor.)
- Pawling & Harnischfeger Co. (See Dreyer, Alfred J., assignor.)
- Pawsat, Ewald F., assignor to Wald Manufacturing Company, Sheboygan, Wis. Flashlight-bracket for bicycles. No. 1,393,158; Oct. 11.
- Paxlat Barrel & Crate Corporation. (See LeFevre, G. A., and Hutchinson, assignors.)
- Paxson, Calvin D., Cleveland, Ohio. Demountable rim. No. 1,364,515; Jan. 4; v. 282; p. 91.
- Paxton, Clifford M., Brooklyn, N. Y., assignor to Paxton Gyroscope Corporation. Gyroscopic device and method. No. 1,380,335; May 31; v. 286; p. 1008.
- Paxton, Clifford M., Brooklyn, N. Y., assignor to Paxton Gyroscope Corporation. Gyroscopic device and method. No. 1,380,336; May 31; v. 286; p. 1009.
- Paxton Gyroscope Corporation. (See Paxton, Clifford M., assignor.)
- Paxon, Phillip T., Salina, Kans. Overalls. No. 1,369,538; Feb. 22; v. 283; p. 662.
- Paxton, Sherman H., St. Paul, Minn. Hand marking or printing device. No. 1,364,301; Jan. 4; v. 282; p. 50.
- Paxton, Sherman H., St. Paul, Minn. Printing device. No. 1,372,085; Mar. 22; v. 284; p. 611.
- Paxton, Thomas, El Paso, Tex. Lateral-wear reducer for locomotives. No. 1,372,774; Mar. 29; v. 284; p. 734.
- Paxton, William D., Laporte, Ind. Vehicle shock-absorbing device. No. 1,367,668; Feb. 8; v. 283; p. 213.
- Payberg, Andrew, Chicago, Ill. Plate-numbering machine. No. 1,368,832; Feb. 15; v. 283; p. 486.
- Paye, Albert E. (See Dodge, Martin L., assignor.)
- Payette, Albert E., and E. Tetrault, Springfield, Mass. Automobile-signal. No. 1,374,861; Apr. 12; v. 285; p. 328.
- Payne, Alvah, Orange, Tex. Baling-press. No. 1,395,135; Oct. 25.
- Payne, Arthur L. (See Steinmetz, Theodore A., assignor.)
- Payne, Charles H., Cincinnati, Ohio. Binding device. No. 1,365,189; Jan. 11; v. 282; p. 264.
- Payne, Frank E., Glencoe, Ill. Packing condensers. No. 1,387,901; Aug. 16; v. 289; p. 509.
- Payne, Frank E., Glencoe, Ill. Means for catching and restoring fluid-leakage. No. 1,390,379; Sept. 13; v. 290; p. 256.
- Payne, Halsey D., A. W. De Clerque, and S. T. Sjoberg, assignors to Cadillac Washing Machine Co., Chicago, Ill. Washing-machine with folding wringer. No. 1,375,170; Apr. 19; v. 285; p. 450.
- Payne, Harry H., assignor of two-thirds to J. White, Birmingham, England. Ejector mechanism for drop-down guns. No. 1,386,275; Aug. 2; v. 289; p. 62.
- Payne, Harry H., assignor of two-thirds to J. White, Birmingham, England. Drop-down gun and rifle. No. 1,392,024; Sept. 27; v. 290; p. 726.
- Payne, John G., Leavenworth, Kans. Hanger. No. 1,369,706; Feb. 22; v. 283; p. 695.
- Payne, John H., Jr., Schenectady, N. Y., assignor to General Electric Company. Method of and means for producing alternating currents. No. 1,400,235; Dec. 13.
- Payne, Lee H., Chicago, Ill. Bottom for bottle-crates. No. 1,385,709; July 26; v. 288; p. 713.
- Payne, Luther M., Bethany, Okla., L. A. Miller, Greenville, and J. J. Douglas, Dallas, Tex. Cycle-car. No. 1,398,493; Nov. 29.
- Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun-sight. No. 1,397,108; Nov. 15.
- Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun. No. 1,397,698; Nov. 22.
- Payne, Oscar V., Cleveland, Ohio, assignor to Auto-Ordnance Corporation, New York, N. Y. Gun. No. 1,399,410; Dec. 6.
- Payne, Pearson M. (See Payne, William H. and P. M.)
- Payne, Robert W., Drakes Branch, Va. Harrow. No. 1,386,584; Aug. 2; v. 289; p. 121.
- Payne, Samuel K., Oxford, Kans. Trap. No. 1,387,735; Aug. 16; v. 289; p. 476.
- Payne, Sydney, and E. Stott, assignors to Payne & Sons (Otley) Limited, and William Dawson & Sons (Otley) Limited, Otley, England. Means for feeding sheets of paper. No. 1,391,271; Sept. 20; v. 290; p. 499.
- Payne & Sons (Otley) Limited, *et al.* (See Payne, S., and Stott, assignors.)
- Payne, Stephen H. (See De Lany, E. H., and Payne.)
- Payne, Stephen H. (See O'Neill, H., and Payne.)
- Payne, Walter B., assignor to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,389,214; Aug. 30; v. 289; p. 880.
- Payne, Walter B., assignor to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,389,215; Aug. 30; v. 289; p. 880.
- Payne, William F., Stratford, Ontario, Canada. Oil-burner. No. 1,373,525; Apr. 5; v. 285; p. 29.
- Payne, William H. and P. M., Washington, Pa. Overhead valve. No. 1,377,523; May 10; v. 286; p. 274.
- Payton, Arthur L. (See Bradbury, Clifford C., assignor.)
- Payton, Arthur L., Chicago, Ill. Carubreter. No. 1,367,787; Feb. 8; v. 283; p. 236.
- Payton, C. T. (See Guild, George R., assignor.)
- Payton, Lee, *et al.* (See Cranmer, John J., assignor.)
- Payuchek, Jacob, Chester, Pa. Adjustable wrench for milling-machines. No. 1,392,025; Sept. 27; v. 290; p. 726.
- Payzant, Octave S., New York, N. Y. Interline-ticket guide. No. 1,366,275; Jan. 13; v. 282; p. 515.
- Payzant, Octave S., New York, N. Y. Interline-ticket guide. No. 1,366,276; Jan. 13; v. 282; p. 516.
- Pazos-Martinez, Richard, Venice, Calif. Internal-combustion turbines. No. 1,387,166; Aug. 9; v. 289; p. 810.
- Peabody, James C., Boston, Mass. Making paper, fiber board, and similar materials. No. 1,376,353; Apr. 26; v. 285; p. 708.
- Peace, Frederick C., Harrisburg, Pa. Demountable rim. No. 1,396,589; Nov. 8.
- Peacock, Edward M., assignor to Davis-Watkins Dairymen's Manufacturing Company, Jersey City, N. J. Can-embossing machine. No. 1,374,225; Apr. 12; v. 285; p. 205.
- Peacock, Robert A. (See Baum, C. E., and Peacock.)
- Peacock, Robert A., Delaware City, Del. Cutting-off tool. No. 1,374,226; Apr. 12; v. 285; p. 205.
- Peacock, Samuel, assignor, by mesne assignments, to Wheeling Steel & Iron Company, Wheeling, W. Va. Coating steel sheets with aluminum. No. 1,378,052; May 17; v. 286; p. 429.
- Peacock, Samuel, assignor, by mesne assignments, to Wheeling Steel & Iron Company, Wheeling, W. Va. Coating steel sheets with tin. No. 1,396,051; Nov. 8.
- Peaden, William H., McKinney, Tex. Window-sash gearing and lock. No. 1,370,356; Mar. 1; v. 284; p. 114.
- Peak, Morris, Kansas City, Mo. Puzzle. No. 1,367,561; Feb. 8; v. 283; p. 193.



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- Pearce, Amy, Mission City, British Columbia, Canada. Fruit-huller. No. 1,399,870; Dec. 13.
- Pearce, Austin, Memphis, Tenn. Sunshade for automobile-windshields. No. 1,384,275; July 12; v. 288; p. 260.
- Pearce, Edwin S. (See Downing, I. S., and Pearce.)
- Pearce, John S., Vancouver, British Columbia, Canada. Process and apparatus for producing charcoal and like materials. No. 1,395,866; Nov. 1.
- Pearce, John S., Vancouver, British Columbia, Canada. Wood distillation. No. 1,395,867; Nov. 1.
- Pearce, Reginald A. (See Maule, Harvey G., assignor.)
- Pearce-Towl, Alfred, Oxford, England. Gas cooking-ring with means for controlling gas-supply by a kettle, saucepan or the like. No. 1,385,763; July 26; v. 288; p. 724.
- Pearce, William, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Golf-ball and making the same. No. 1,366,930; Feb. 1; v. 283; p. 10.
- Peardon, Charles H., Mukwonago, Wis. Hopper. No. 1,373,349; Mar. 29; v. 284; p. 900.
- Pearl, Waller E., Sedalia, Mo. Dental instrument. No. 1,368,195; Feb. 8; v. 283; p. 314.
- Pearlstien, Julius B., Brooklyn, N. Y. Shirt. No. 1,401,725; Dec. 27.
- Pearsall, James R., Rochester, N. Y. Box construction. No. 1,376,036; Apr. 26; v. 285; p. 647.
- Pearson, Arthur E., Muskegon, Mich. Combined lathe-center and dog. No. 1,364,205; Jan. 4; v. 282; p. 31.
- Pearson, Axel B., Munhall, Pa. Clamp. No. 1,368,286; Feb. 15; v. 283; p. 379.
- Pearson, Carl F., assignor to Chicago Machine & Motor Mfg. Co., Chicago, Ill. Clutch. No. 1,374,319; Apr. 12; v. 285; p. 223.
- Pearson, Carl L., assignor to Sandow Motor Truck Company, Chicago, Ill. Motor suspension. No. 1,373,093; Mar. 29; v. 284; p. 848.
- Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Pitman connection. No. 1,394,784; Oct. 25.
- Pearsall, Chester B., assignor to M. D. Knowlton Company, Rochester, N. Y. Scoring-machine. No. 1,373,668; Apr. 5; v. 285; p. 56.
- Pearson, Edward L., Toledo, Ohio. Engine-cooling means. No. 1,399,871; Dec. 13.
- Pearson, Edward L., Toledo, Ohio. Short-circuiting means for automotive windings. No. 1,399,991; Dec. 13.
- Pearson, Florent J., Troy, Ohio. Fruit-sizing apparatus. No. 1,399,317; Dec. 13.
- Pearson, Francis C. (See Owers, E., Pearson, and Berndt.)
- Pearson, George A. (See Wiggins, Edward J., assignor.)
- Pearson, Henry, Brightwood, Mass., assignor, by mesne assignments, to The J. G. Brill Company, Philadelphia, Pa. Unloading apparatus. No. 1,381,495; June 14; v. 287; p. 274.
- Pearson, Herbert P., assignor to Kendall Products Corporation, New York, N. Y. Invisible waterproof printing fluid. No. 1,401,357; Dec. 27.
- Pearson, James H. (See Carlson, Charles R., assignor.)
- Pearson, James H., assignor to Concrete Silo Company, Bloomfield, Ind. Cement-block machine. No. 1,398,442; Nov. 29.
- Pearson, James W., near Elk Grove, Calif. Combination-tool. No. 1,377,920; May 10; v. 286; p. 352.
- Pearson, John A., Providence, R. I. Piston. No. 1,366,415; Jan. 25; v. 282; p. 586.
- Pearson, John E., Mimosa, N. C. Aeroplane. No. 1,378,895; May 24; v. 286; p. 663.
- Pearson, John P. (See Nymann, J. O., and Pearson.)
- Pearson, John W., San Francisco, Calif. Dipping apparatus. No. 1,401,437; Dec. 27.
- Pearson, Richard, London, England. Fixation of the nitrogen of the atmosphere. No. 1,372,541; Mar. 22; v. 284; p. 698.
- Pearson, Severin, Brooklyn, N. Y. Stove. No. 1,372,902; Mar. 29; v. 284; p. 811.
- Pearson, Severin, Brooklyn, N. Y. Burner-support. No. 1,389,841; Sept. 6; v. 290; p. 57.
- Pearson, Walter, Whitman, Mass. Sewing-machine. No. 1,375,415; Apr. 19; v. 285; p. 496.
- Pearson, Wesley. (See McCrory, H., and Pearson.)
- Pearsons, George T., New York, N. Y. Fire-extinguisher. No. 1,364,952; Jan. 11; v. 282; p. 219.
- Pearsons, George T., New York, N. Y. Fire-extinguisher. No. 1,378,609; May 17; v. 286; p. 535.
- Pearsons, George T., New York, N. Y. Fire-extinguisher. No. 1,381,657; June 14; v. 287; p. 96.
- Pearsons, George T., New York, N. Y. Fire-extinguisher. No. 1,388,883; Aug. 30; v. 289; p. 813.
- Pearsons, George T., New York, N. Y. Fire-extinguisher. No. 1,400,906; Dec. 20.
- Pease, Benjamin F., assignor to The Ohio Truss Co., Cincinnati, Ohio. Armrest. No. 1,376,380; Apr. 26; v. 285; p. 712.
- Pease, C. F., Company, The. (See Burnap, Charles E., assignor.)
- Pease, Edward L., Darlington, England. Pump for delivering liquids. No. 1,383,997; July 5; v. 288; p. 153.
- Pease, Emma C., Nantucket, Mass. Apron. No. 1,385,391; July 26; v. 288; p. 647.
- Pease, Gilbert S., Richfield, Wis. Modulating device for sound-reproducers. No. 1,388,753; Aug. 23; v. 289; p. 733.
- Peasley, Erwin, Amherst, Ohio. Roughening or hand abrading tool. No. 1,373,970; Apr. 5; v. 285; p. 116.
- Peavey, James E., Cincinnati, Ohio. Dry-cell electric battery. No. 1,389,691; Sept. 6; v. 290; p. 26.
- Peavey, William O., Ebro, Minn. Spike-puller. No. 1,364,451; Jan. 4; v. 282; p. 79.
- Pechkranz, Rodolphe, Carouge-Geneva, Switzerland. Manufacture of metallic diaphragms of electrolytic cells. No. 1,388,754; Aug. 23; v. 289; p. 733.
- Pechstein, Fritz, Wilmersdorf-Berlin, assignor to C. A. Pesca & Sohn, Berlin-Lichtenberg, Germany. Centrifuge. No. 1,381,330; June 14; v. 287; p. 243.
- Peck, Arthur S., assignor to Lawrence Paper Manufacturing Company, Lawrence, Kans. Caddy-box. No. 1,387,167; Aug. 9; v. 289; p. 311.
- Peck, Charles B., Batavia, N. Y. Curtain-window. No. 1,380,245; May 31; v. 286; p. 991.
- Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Sewage treatment. No. 1,392,211; Sept. 27; v. 290; p. 762.
- Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Treatment of sewage. No. 1,392,212; Sept. 27; v. 290; p. 762.
- Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Treatment of sewage. No. 1,392,213; Sept. 27; v. 290; p. 763.
- Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Apparatus for treating sewage. No. 1,392,214; Sept. 27; v. 290; p. 763.
- Peck, Duncan W., Syracuse, N. Y. Device for cleaning the surface slots of tunnels of underground third-rail systems. No. 1,375,064; Apr. 19; v. 285; p. 430.
- Peck, Frank A., and J. E. A. Moore, Cleveland, Ohio. Drawbar. No. 1,374,097; Apr. 5; v. 285; p. 140.
- Peck, Frederick W., Royal Oak, Mich. Apparatus for air-cooling cylinders. No. 1,389,780; Sept. 6; v. 290; p. 44.
- Peck, Harry E., Waverly, N. Y. Valve-grinding machine. No. 1,388,884; Aug. 30; v. 289; p. 814.
- Peck, Harry F., Wakefield, Mass. Fluid-conducting fitting. No. 1,368,196; Feb. 8; v. 283; p. 314.
- Peck, Wilbur H., Los Angeles, Calif. Method of and machine for centrifugal separation. No. 1,374,098; Apr. 5; v. 285; p. 140.
- Peck, Wilbur H., Los Angeles, Calif. Centrifugal concentrator. No. 1,395,517; Nov. 1.
- Peck, Wilfred J. (See Bollinger, Frederick P., assignor.)
- Pecoraro, Anthony, New York, N. Y. Adjustable dress-form. No. 1,375,316; Apr. 19; v. 285; p. 478.
- Pecorella, Alberto, V. Patricolo, Buffalo, and F. H. Apel, Athol Springs, N. Y. Artificial limb. No. 1,380,835; June 7; v. 287; p. 98.
- Peddle, Charles R., Suffern, N. Y., and J. M. Waldron, Highwood, N. J. Switch-operating mechanism. No. 1,375,537; Apr. 19; v. 285; p. 519.
- Peden, Francis M., assignor of one-half to E. P. Lowery, Loco, Okla. Binder attachment. No. 1,397,821; Nov. 22.
- Peden, Thomas R. (See Cosens, A., and Peden.)
- Pedersen, Fredrick W. (See Hintz, A. W., and Pedersen.)
- Pedersen, Johannes T., Flushing, N. Y., assignor, by mesne assignments, to The Measuregraph Company. Clothometer-gage. No. 1,398,565; Nov. 29.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,387,938; Aug. 16; v. 289; p. 516.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,390,380; Sept. 13; v. 290; p. 256.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,391,496; Sept. 20; v. 290; p. 544.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,391,497; Sept. 20; v. 290; p. 545.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,391,498; Sept. 20; v. 290; p. 545.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,391,499; Sept. 20; v. 290; p. 545.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,395,291; Nov. 1.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,395,292; Nov. 1.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,397,109; Nov. 15.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,401,552; Dec. 27.
- Pedersen, John E., Hillsboro, Ill., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo. Shaking mechanism for filtering apparatus. No. 1,388,294; Aug. 23; v. 289; p. 643.
- Pedersen, Nils, Borregaard, via Sarpsborg, Norway. Separating solid particles from suspension. No. 1,376,459; May 3; v. 286; p. 16.
- Pedersen, Oscar A., New York, N. Y. Telephone-collection-box apparatus. No. 1,374,760; Apr. 12; v. 285; p. 308.
- Pedersen, Waldemar J., Floral Park, N. Y. Building construction. No. 1,397,650; Nov. 22.
- Pederson, Julius, Bridgeport, Conn. Windshield-cleaner. No. 1,370,909; Mar. 8; v. 284; p. 264.
- Pederson, Julius, Bridgeport, Conn. Windshield cleaner. No. 1,370,910; Mar. 8; v. 284; p. 264.
- Pedigo, Jesse W., Topeka, Kans. Combined alfalfa shocker and tedder. No. 1,366,485; Jan. 25; v. 282; p. 600.
- Pedigo, John L. (See Gillenwater, C. T., and Pedigo.)
- Peebles, Frank W. L., assignor to L. Ehrlich, St. Louis, Mo. Lock. No. 1,377,625; May 10; v. 286; p. 294.
- Peebles, Thomas A. (See Hopwood, J. M., and Peebles.)



*Alphabetical list of patentees—Continued.*

- Peebles, Thomas A., Pittsburgh, Pa. Stoking mechanism. No. 1,400,766; Dec. 20.
- Peebles, Thomas A., Pittsburgh, Pa. Boiler-furnace. No. 1,400,830; Dec. 20.
- Peecher, Mack, Denver, Colo. Razor-strop. No. 1,394,345; Oct. 18.
- Peek, George W., San Francisco, Calif. Narrow-doorway wall-bed. No. 1,383,420; July 5; v. 288; p. 34.
- Peek, Horace H., Chattanooga, Tenn. Furnace. No. 1,400,454; Dec. 13.
- Peek, Robert L. (See Hyblinette, N. V., and Peek.)
- Peel, Edward E. (See Johnston, George W., assignor.)
- Peelle Company, The. (See Peelle, Robert S., assignor.)
- Peelle Company, The. (See Wexler, Benjamin, assignor.)
- Peelle, Robert S., Hollis, N. Y., assignor to The Peelle Company. Foundation-bolt. No. 1,381,428; June 14; v. 287; p. 262.
- Peerless Husker Company. (See Sells, Ogden S., assignor.)
- Peerless Light Company. (See Herskovitz, Max, assignor.)
- Peerless Motor Car Company, The. (See Slack, Frederic W., assignor.)
- Peerless Motor Car Company, The. (See Strickland, William R., assignor.)
- Peerless Wire Goods Company, The. (See Snyder, Frank M., assignor.)
- Peerson, James M., Florence, Ala. Hulling and cleaning feeder for cotton-gins. No. 1,396,142; Nov. 8.
- Peet Brothers. (See Peet, Walter F., assignor.)
- Peet, Charles S., New York, N. Y. Clamp-bolt. No. 1,374,227; Apr. 12; v. 285; p. 205.
- Peet, Walter F., assignor to Peet Brothers. Hairpin. No. 1,383,016; June 28; v. 287; p. 677.
- Peet, William, Kansas City, Mo. Box-sealing machine. No. 1,390,059; Sept. 6; v. 290; p. 101.
- Peeters, Alexander F., assignor to Naamlooze Vennootschap Glasfabriek Leerdam, Leerdam, Netherlands. Glass-furnace. No. 1,366,745; Jan. 25; v. 282; p. 652.
- Peets, Clifford S., assignor to C. Dillon, Great Neck Station, N. Y. Alignment device for automobiles. No. 1,374,028; Apr. 5; v. 285; p. 126.
- Pegasus Indicator Manufacturing Co. (See Kleidman, Joseph, assignor.)
- Pehel, Zygmunt H., New York, N. Y. Lock-operated circuit-closer. No. 1,388,119; Aug. 16; v. 289; p. 551.
- Pehrsson, Daniel F., Buffalo, N. D. Grain-sieve. No. 1,387,306; Aug. 9; v. 289; p. 338.
- Peifer, Guy H., Hazleton, Pa. Track. No. 1,389,781; Sept. 6; v. 290; p. 44.
- Peller, Karl E., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-delivering apparatus. No. 1,373,202; Mar. 29; v. 284; p. 871.
- Peller, Karl E., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-conveying apparatus. No. 1,379,593; May 24; v. 286; p. 794.
- Peller, Karl E., West Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-severing. No. 1,379,594; May 24; v. 286; p. 794.
- Peller, Karl E., Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-feeding apparatus. No. 1,401,921; Dec. 27.
- Peller, Karl E., West Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Glass-working. No. 1,401,922; Dec. 27.
- Peir, Alois H., A. L. Peterson, and C. Molas, Los Angeles, Calif., assignors to Burdett Oxygen Company. Oxy-hydrogen-torch. No. 1,365,600; Jan. 11; v. 282; p. 344.
- Peirce, Charles L., Jr., Pittsburgh, Pa. Key-holder. (Reissue.) No. 15,200; Sept. 20; v. 290; p. 577.
- Peirce, Clifford G., Jersey City, N. J. Spark-plug. No. 1,397,901; Nov. 22.
- Peirce, John M., South Charleston, Ohio. Test-connector. No. 1,370,554; Mar. 8; v. 284; p. 197.
- Peirce, Ralph S., Hinsdale, Ill. Fastening device. No. 1,395,453; Nov. 1.
- Peirce, William H. (See Van Vleck, P., and Cooper, assignors.)
- Peirce, William B., North Tonawanda, N. Y. Method and apparatus for heating long blanks to forging temperature. No. 1,397,603; Nov. 22.
- Peisch, Frederick W., Chicago, Ill. Phonograph-needle. No. 1,370,763; Mar. 8; v. 284; p. 237.
- Pekar, Frank, Bridgeport, Conn. Automobile-signal. No. 1,387,611; Aug. 16; v. 289; p. 451.
- Peklar, George, Cicero, Ill. Screw-threading tool. No. 1,368,651; Feb. 15; v. 283; p. 451.
- Pelamorgue, Henri C., Grand Montrouge, France, assignor to one-half to M. B. Connelly, Philadelphia, Pa. Gage. No. 1,392,215; Sept. 27; v. 290; p. 763.
- Pelc, Frank and S. McDonald, Pa. Garbage-box. No. 1,380,011; May 31; v. 286; p. 947.
- Pelc, Stefania. (See Pelc, Frank and S.)
- Peleskey, Andrew, Martins Ferry, Ohio. Moving sidewalk. No. 1,385,584; July 26; v. 288; p. 687.
- Pelizzoni, Joseph A., Allentown, Pa., assignor to International Motor Company, New York, N. Y. Indexing-fixture for machine-tools. No. 1,399,992; Dec. 13.
- Pellaton, Edmond, Le Locle, Switzerland, assignor to Fabriques des Montres Zenith successeur de Fabriques des Montres Zenith Georges-Favre-Tacot & Cie, Watch-winding and hands setting mechanism. No. 1,388,755; Aug. 23; v. 289; p. 733.
- Pellet, Auguste V., assignor to Pellet Magneto Co., Chicago, Ill. Device for cleaning spark-plugs. No. 1,390,225; Dec. 6.
- Pellet Magneto Co. (See Pellet, Auguste V., assignor.)
- Pelletier, Henry E., Newark, assignor to Pelletier Products Mfg. Co., Inc., Elizabeth, N. J. Valve. No. 1,380,586; June 7; v. 287; p. 49.
- Pelletier, Henry E., Newark, assignor to Pelletier Products Mfg. Co., Inc., Elizabeth, N. J. Valve. No. 1,380,737; June 7; v. 287; p. 78.
- Pelletier, Henry E., Newark, assignor to Pelletier Products Mfg. Co., Inc., Elizabeth, N. J. Valve. No. 1,381,223; June 14; v. 287; p. 224.
- Pelletier, Joseph C., Winnipeg, Manitoba, Canada. Music-binder. No. 1,364,302; Jan. 4; v. 282; p. 51.
- Pelletier, Louis F. (See Ciglia, E. F., and Pelletier.)
- Pelletier Products Mfg. Co. (See Pelletier, Henry E., assignor.)
- Pelling, Frederick. (See Good, F. H., Danielson, and Pelling.)
- Pellow, Arthur, assignor to American Optical Company, Southbridge, Mass. Lens-grinder. No. 1,399,400; Dec. 6.
- Pells, Samuel, Omaha, assignor to one-half to J. L. Galbreth, Superior, Nebr. Tobacco-leaf crusher. No. 1,401,438; Dec. 27.
- Pelphrey, Landrum H., Girard, assignor to forty-five one-hundredths to U. G. Pelphrey, Mulberry, Kans. Inlet-valve casing. No. 1,371,110; Mar. 8; v. 284; p. 302.
- Pelphrey, U. G. (See Pelphrey, Landrum H., assignor.)
- Peltier, Charles G., Ontonagon, Mich. Watering-fountain. No. 1,378,053; May 17; v. 286; p. 429.
- Pelter, Charles. (See Olson, E. H., Clark, Mealey, and Pelter.)
- Pelton, Charles H., assignor to The Thomas Manufacturing Company, Springfield, Ohio. Coupling. No. 1,383,017; June 28; v. 287; p. 677.
- Pelton, Chauncey R., and J. A. Hand, Detroit, Mich. Sterilizer. No. 1,384,403; July 12; v. 288; p. 286.
- Pelton, Chauncey R., and J. A. Hand, assignors to The Pelton & Crane Company, Detroit, Mich. Electric switch. No. 1,397,777; Nov. 22.
- Pelton, Clyde S., Cleveland Heights, assignor, by mesne assignments, to The Perfection Heater & Manufacturing Company, Cleveland, Ohio. Exhaust-heater fitting for motor-propelled vehicles. No. 1,365,847; Jan. 18; v. 282; p. 432.
- Pelton & Crane Company, The. (See Pelton, C. R., and Hand, assignors.)
- Pelton, Edward T., Chicago, Ill. Making steel. No. 1,376,160; Apr. 26; v. 285; p. 671.
- Pelton, Herbert E., Los Angeles, Calif. Machine for folding sheet material. No. 1,376,969; May 3; v. 286; p. 113.
- Pelton Water Wheel Company, The. (See Doble, William A., assignor.)
- Pelton Water Wheel Company. (See Hutchinson, E. C., and Anderson, assignors.)
- Pelton Water Wheel Company. (See McAulay, C. B., and Hutchinson.)
- Peltowitz, Edmund, West Orange, N. J. Vaporizer for internal-combustion engines. No. 1,375,011; Apr. 19; v. 285; p. 419.
- Penberthy Injector Company. (See McClymont, Bryce W., assignor.)
- Pemberton-Billing, Noel, Hertford, England. Motion-picture apparatus. No. 1,391,341; Sept. 20; v. 290; p. 514.
- Pemberton, Cyrus L., Fairmont, Ind. Oil-burner. No. 1,399,986; Dec. 13.
- Pemberton, Elmer, Hyde Park, Calif. Curing apparatus. No. 1,370,222; Mar. 1; v. 284; p. 88.
- Pemberton, Elmer, Hyde Park, Calif. Burner. No. 1,396,381; Nov. 8.
- Pemble, William W. (See Kennon, Charles W., assignor.)
- Pembor, Thomas J. (See Watt, Frederick, assignor.)
- Pence, Allen T., et al. (See Lukens, W. R., and Gallagher, assignors.)
- Pender, Harold, Merion, Pa., assignor to Safety Car Heating & Lighting Company. Power-transmission mechanism. No. 1,367,625; Feb. 8; v. 283; p. 205.
- Pendergraft, Ewell W., Vicksburg, Miss. Sash attachment. No. 1,378,718; May 17; v. 286; p. 557.
- Pendergrass, Walter L., Mobile, Ala. Union-suit. No. 1,398,443; Nov. 29.
- Pendleton, Harry C., Piedmont, Calif. Method and means for facilitating sealing deep wells. No. 1,393,311; Oct. 11.
- Penfield, Raymond C. (See Weber, B. F., and Woodford, assignors.)
- Penfield, Raymond C., New York, N. Y. Apparatus for unloading articles in stacked formation. No. 1,371,392; Mar. 15; v. 284; p. 421.
- Penfield, William W., Inc. (See Penfield, William W., assignor.)
- Penfield, William W., assignor to W. W. Penfield, Inc., Stamford, Conn. Snap-fastener. No. 1,392,281; Sept. 27; v. 290; p. 777.
- Pendleton, Charles B., Denver, Colo. Automatic fluid-pressure displacement-pump. No. 1,368,528; Feb. 15; v. 283; p. 427.



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- Penfold, William J., Brunswick, Victoria, Australia. Manufacture of serums from animals, excluding man. No. 1,378,896; May 24; v. 286; p. 663.
- Penick & Ford. (See Lenders, Adolph W. H., assignor.)
- Peninsular Stove Company. (See Lane, John H., assignor.)
- Penksa, Stanley, Long Island City, N. Y. Shipping-tag. No. 1,383,835; July 5; v. 288; p. 16.
- Penland, George T., Gastonia, N. C. Tension device. No. 1,399,649; Dec. 6.
- Penn Bros. Suspender Company. (See Penn, Holmes E., assignor.)
- Penn Engineering Company. (See Bixler, J. F., and Long, assignors.)
- Penn, George R., Takoma Park, Md., assignor to National Paper Can Corporation, Washington, D. C. Paper-container. No. 1,396,282; Nov. 8.
- Penn, Holmes E., Madison, N. C., assignor to Penn Bros. Suspender Company. Garter. No. 1,381,658; June 14; v. 287; p. 305.
- Penn Publishing Company. (See Rhoads, William M., assignor.)
- Penn Rivet Corporation. (See Haynes, Roy W., assignor.)
- Penn, William E., Watertown, Wis., assignor to The Creamery Package Manufacturing Company, Chicago, Ill. Butter-cutter. No. 1,382,540; June 21; v. 287; p. 531.
- Pennell, Charles L., Barrs Mills, Ohio. Traction-wheel cleat mechanism. No. 1,373,203; Mar. 29; v. 284; p. 871.
- Penner, Joseph F., New Castle, and A. A. Lansberry, Vandergrift, Pa., assignors to Vandergrift Box Company. Nailing-machine. No. 1,383,145; June 28; v. 287; p. 701.
- Pennewell, John D., Kansas City, Mo. Tent. No. 1,377,788; May 10; v. 286; p. 326.
- Penney, Harold D., Pelham, and J. E. Davidson, assignors to Powers Accounting Machine Company, New York, N. Y. Electrical non-stop card-tabulator printer. No. 1,376,572; May 3; v. 286; p. 36.
- Penney, Sydney, London, England. Wheel for road-vehicles. No. 1,390,970; Sept. 13; v. 290; p. 376.
- Penniman, Russell S., Jr., and N. M. Zoph, Berkeley, Calif., assignors, by mesne assignments, to National Ferrite Company. Manufacturing iron compounds and product. No. 1,368,748; Feb. 15; v. 283; p. 470.
- Penniman, William B. D., and R. S. White, Baltimore, Md. Production of ferrosilicon aluminum. No. 1,369,298; Feb. 22; v. 283; p. 615.
- Penniman, William B. D., Baltimore, Md., assignor, by mesne assignments, to Whitney Yeast Corporation, Boston, Mass. Making dry yeast. No. 1,386,359; Aug. 2; v. 289; p. 78.
- Penniman, William B. D., Baltimore, Md., assignor, by mesne assignments, to Whitney Yeast Corporation, Boston, Mass. Making dry yeast. No. 1,386,360; Aug. 2; v. 289; p. 78.
- Penniman, William B. D., Baltimore, Md., assignor, by mesne assignments, to Whitney Yeast Corporation, Boston, Mass. Making dry yeast. No. 1,386,361; Aug. 2; v. 289; p. 78.
- Penning, Edward C., and F. A. Isern, Ellinwood, Kans. Two-cycle motor. No. 1,382,539; June 21; v. 287; p. 531.
- Pennington, Glover F., Tusculumbia, Ala. Controlling device for headlights. No. 1,376,225; Apr. 26; v. 285; p. 683.
- Pennington, Gordon R., Cleveland, and S. K. Wellman, Cleveland Heights, Ohio. Track-belt supporting and tightening mechanism. No. 1,368,652; Feb. 15; v. 283; p. 451.
- Pennington, Gordon R., Cleveland, and S. K. Wellman, Cleveland Heights, Ohio. Transmission mechanism. No. 1,389,692; Sept. 6; v. 290; p. 26.
- Pennington, Harry R., Kansas City, Mo. Electric welding apparatus and regulating the same. No. 1,378,192; May 17; v. 286; p. 456.
- Pennington, Harry R., and E. Wanamaker, Chicago, Ill. Arc-welding electrode. No. 1,368,287; Feb. 15; v. 283; p. 380.
- Pennock, Bernard A., Toronto, Ontario, Canada. Motor-wheel grip. No. 1,369,264; Feb. 22; v. 283; p. 609.
- Pennsylvania Chocolate Company. (See Marvin, S. S., and Munz, assignors.)
- Pennsylvania Paper Products Company, The. (See Malm, Axel C. V., assignor.)
- Pennsylvania Salt Manufacturing Company. (See Pugh, Edward J., assignor.)
- Pennsylvania Wire Glass Company. (See Shuman, Arno, assignor.)
- Penny, Lonnie T., Raleigh, N. C. Signal. No. 1,377,520; May 10; v. 286; p. 274.
- Penny, Lonnie T., Raleigh, N. C. Car-door-operating mechanism. No. 1,393,959; Oct. 18.
- Penny, Lonnie T., Raleigh, N. C. Sash-fastener. No. 1,397,450; Nov. 15.
- Penny, Walter B., Columbus, Ohio. Saw-filing machine. No. 1,376,634; May 3; v. 286; p. 48.
- Penrod, William A., Dayton, Ohio. Cleaning device. No. 1,376,779; May 3; v. 286; p. 75.
- Penrod, William F., Cincinnati, Ohio, assignor to A. J. Wissel, trustee. Transmission-gear for automobiles. No. 1,384,481; July 12; v. 288; p. 302.
- Penrod, William F., Cincinnati, Ohio, assignor to A. J. Wissel, trustee. Transmitting-gear system. No. 1,384,482; July 12; v. 288; p. 303.
- Penrod, William F., Cincinnati, Ohio, assignor to A. H. Wissel, trustee. Driving-gear system. No. 1,384,483; July 12; v. 288; p. 303.
- Penrose, Edward R., Logansport, Ind. Lifting-jack. No. 1,377,026; May 3; v. 286; p. 123.
- Penschuck, William R., St. Paul, Minn. Combination pen and brush. No. 1,393,960; Oct. 18.
- Penter, Eli E., assignor of one-fifth to C. K. Seibert, Detroit, Mich. Internal-combustion engine. No. 1,377,789; May 10; v. 286; p. 326.
- Pentheny, George W., Springfield, and V. Petrovsky, Lynn, Mass., assignors to General Electric Company. Elastic-fluid turbine. No. 1,366,592; Jan. 25; v. 282; p. 622.
- Pentland, Robert, Jacksonville, Fla. Perpetual calendar. No. 1,377,429; May 10; v. 286; p. 257.
- Penty, Willard C., Columbus, Ohio. Sprinkler-head. No. 1,385,392; July 26; v. 288; p. 647.
- Pentz, Florence L. and J. B., New York, N. Y. Direction-indicator for air and marine craft. No. 1,376,727; May 3; v. 286; p. 65.
- Pentz, James B. (See Pentz, Florence L. and J. B.)
- Pentz, James B., New York, N. Y. Sterilizing surgical instruments and other articles. No. 1,377,725; May 10; v. 286; p. 313.
- Pentz, James B., New York, N. Y. Sterilizer. No. 1,377,726; May 10; v. 286; p. 313.
- Penwell, Harry E., Turlock, Calif. Tire structure. No. 1,384,484; July 12; v. 288; p. 303.
- Penwell, Tim, and H. E. Brown, Eldorado, Kans. Adjuster. No. 1,367,426; Feb. 1; v. 283; p. 108.
- Peoples, John S., U. S. Army. Ammunition-packing case. No. 1,373,385; Mar. 29; v. 284; p. 906.
- Peoples, John S., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Machine-gun mount. No. 1,374,862; Apr. 12; v. 285; p. 328.
- Peoples, John S., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Cartridge-belt clamp. No. 1,376,354; Apr. 26; v. 285; p. 708.
- Peoples, John S., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Apparatus for proportioning streams of fluid. No. 1,393,824; Oct. 18.
- Pepe, Emidio, Derby, Conn. Toy. No. 1,390,923; Sept. 13; v. 290; p. 366.
- Pépin, Joseph W. A., St. Jerome, Quebec, Canada. Aeroplane. No. 1,382,314; June 21; v. 287; p. 488.
- Peplinski, Glen, Mohawk, N. Y. Induction-coil. No. 1,398,793; Nov. 29.
- Peplinski, John A., and I. A. Spaulding, Pulaski, Wis. Train recording and registering apparatus. No. 1,364,303; Jan. 4; v. 282; p. 51.
- Pepper, David, Philadelphia, Pa. Electric battery. No. 1,375,012; Apr. 19; v. 285; p. 419.
- Pepper, David, Philadelphia, Pa. Method and apparatus for casting metal cups. No. 1,387,864; Aug. 16; v. 289; p. 502.
- Pepper, Elisha D., Pickets, Miss. Automatic release. No. 1,375,605; Apr. 19; v. 285; p. 532.
- Pepper, Frank H., Los Angeles, assignor of one-half to J. R. Erskine, Fresno, Calif. Refrigerating apparatus. No. 1,372,367; Mar. 22; v. 284; p. 665.
- Pepper, Frederick V., Los Angeles, Calif. Alarm mechanism. No. 1,398,340; Nov. 29.
- Peppers, Jerry C., New Orleans, La. Rail-joint. No. 1,377,272; May 10; v. 286; p. 226.
- Peppers, John W., Calgary, Alberta, Canada. Oil-can. No. 1,387,612; Aug. 16; v. 289; p. 451.
- Peppin, Albert, Ishpeming, Mich. Digging-machine. No. 1,397,543; Nov. 22.
- Pepple, John W., San Antonio, Tex., assignor of one-tenth to John J. Rowe, Akron, Ohio. Vehicle tire. No. 1,365,539; Jan. 11; v. 282; p. 332.
- Peradotto, Antonio, Turin, Italy. Inclinator. No. 1,397,490; Nov. 15.
- Perazzoli, Henry, Philadelphia, Pa. Track-grinding machine. No. 1,389,528; Aug. 30; v. 289; p. 942.
- Percy, Carl G. (See Kay, Gordon, assignor.)
- Percy, Clark, South Bellingham, and W. Mills, Anacortes, assignors of one-third to C. H. Kent, Seattle, Wash. Machine for cutting can-tops. No. 1,393,159; Oct. 11.
- Percy Manufacturing Company. (See Trubenbach, C. D., and Sanneman, assignors.)
- Perdue, Giles A., Wilmington, Del. Coin-collecting and change-making device. No. 1,399,650; Dec. 6.
- Perdue, William B., Emeryville, Calif. Welding and cutting torch. No. 1,373,829; Apr. 5; v. 285; p. 88.
- Pereira, Ricardo G., Valparaiso, Chile. Line-making attachment for typewriting-machines. No. 1,397,740; Nov. 22.
- Pereire, Gustave, and G. Jolivet, Paris, France. Construction of the permanent way for railway-carriages of large capacity. No. 1,385,269; July 19; v. 288; p. 546.
- Pereire, Gustave and G. Jolivet, Paris, France. Railway-carriage of large capacity. No. 1,392,523; Oct. 4.
- Peretto, Robert. (See Albrecht, T., Peretto, and Wandersee.)
- Peretto, Robert. (See Howell, Israel G., assignor.)
- Perey, Alexander. (See Howell, Israel G., assignor.)
- Perey Manufacturing Company. (See Trubenbach, C. D., and Sanneman, assignors.)



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- Perez, Henry L., Yonkers, N. Y., and T. Veitch, Englewood, N. J. Fountain-pen. No. 1,393,903; Oct. 18.
- Perez, Ruben, Buenos Aires, Argentina. Stamp or seal. No. 1,385,490; July 26; v. 288; p. 668.
- Perfect Pea Picker Company. (See Mouchet, Theodore S., assignor.)
- Perfection Auto Window Company. (See Fletcher, Joseph H., assignor.)
- Perfection Corn Planter Manufacturing Company. (See Paulson, Ernest W., assignor.)
- Perfection Heater & Manufacturing Company, The. (See Pelton, Clyde S., assignor.)
- Perfection Manufacturing Company. (See Dinesen, Laurits, assignor.)
- Perfection Tie Company. (See Boros, John, assignor.)
- Perfecto Gear Differential Co. (See Starr, Charles E., assignor.)
- Perfecto Gear Differential Co. (See Thompson, John A., assignor.)
- Perfek-tone Corporation, The. (See Pfrommer, W. D., and Adams, assignors.)
- Perfex Products Corporation. (See Weber, Charles, assignor.)
- Perfex Radiator Company. (See Opitz, Fred M., assignor.)
- Perin Automotive Engineering Co. (See Perin, Donald W., assignor.)
- Perin, Charles P. (See Eustis, Frederic A., assignor.)
- Perin, Donald W., Brookline, assignor to Perin Automotive Engineering Co., Inc., Boston, Mass. Reduction-gearing for motor-vehicles. No. 1,366,325; Jan. 18; v. 282; p. 525.
- Perin, George, Syracuse, N. Y. Movable and adjustable study-chair. No. 1,377,599; May 10; v. 286; p. 289.
- Perina, Edward, Port Richmond, N. Y. Filling device for fountain-pens. No. 1,392,860; Oct. 4.
- Perkin, Arthur G., Leeds, assignor to British Dyestuffs Corporation Limited, Kingsway, London, England. Manufacture of anthranol. No. 1,375,972; Apr. 26; v. 285; p. 635.
- Perkins, Alonson D., New York, N. Y. Air-compressing pump. No. 1,370,993; Mar. 8; v. 284; p. 280.
- Perkins, Alvin C., assignor of one-half to L. R. Perkins, Goodland, Ind. Litter-carrier. No. 1,392,594; Oct. 4.
- Perkins Appliance Company. (See Perkins, J. L., and Sickles, assignors.)
- Perkins Appliance Company. (See Perkins, Julian L., assignor.)
- Perkins, B. F., & Son, Inc. (See Bartlett, Henry B., assignor.)
- Perkins, Chester A., South Bend, Ind. Vehicle-signal. No. 1,397,778; Nov. 22.
- Perkins, Clement L., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,364,304; Jan. 4; v. 282; p. 51.
- Perkins, Clement L., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,364,305; Jan. 4; v. 282; p. 51.
- Perkins, Clement L., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,364,306; Jan. 4; v. 282; p. 51.
- Perkins, Clement L., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,364,358; Jan. 4; v. 282; p. 156.
- Perkins, Clement L., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation agent. No. 1,394,639; Oct. 25.
- Perkins, Clement L., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Concentration of minerals. No. 1,394,640; Oct. 25.
- Perkins, Clement L., and R. E. Sayre, Pittsburgh, Pa., assignors to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,364,307; Jan. 4; v. 282; p. 51.
- Perkins, Clement L., and R. E. Sayre, Pittsburgh, Pa., assignors to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,364,308; Jan. 4; v. 282; p. 51.
- Perkins, Clement L., and R. E. Sayre, Pittsburgh, Pa., assignors to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,364,859; Jan. 4; v. 282; p. 156.
- Perkins, Clement L., and R. E. Sayre, Pittsburgh, Pa., assignors to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,370,357; Mar. 1; v. 284; p. 114.
- Perkins Corporation. (See Williams, Edward H., assignor.)
- Perkins, Daniel B., Providence, R. I. Razor-blade sharpener. No. 1,392,701; Oct. 4.
- Perkins, Daniel B., assignor of one-half to W. F. Almy, Providence, R. I. Mount for safety-razor blades. No. 1,374,228; Apr. 12; v. 285; p. 205.
- Perkins, Earl R., Manitowish, Wis. Luggage-carrier. No. 1,378,610; May 17; v. 286; p. 536.
- Perkins, Earl R., Syracuse, N. Y. Automobile-lock. No. 1,383,659; July 5; v. 288; p. 83.
- Perkins, Edwin C., New Haven, Conn. Mopping-machine. No. 1,364,516; Jan. 4; v. 282; p. 91.
- Perkins, Elmer E. (See Vickery, Benjamin P., assignor.)
- Perkins, George B., Farmington, Mo. Vehicle attachment. No. 1,383,847; July 5; v. 288; p. 122.
- Perkins, George E., assignor of one-fourth to E. Everett and one-fourth to J. W. McCullough, Atkinson, Ill. Sealing composition for radiators. No. 1,393,961; Oct. 18.
- Perkins, George G., Lynn, Mass. Machine and method for rolling conical tips on lacings. No. 1,386,070; Aug. 2; v. 289; p. 22.
- Perkins Glue Company. (See Grosvenor, William M., assignor.)
- Perkins Glue Company. (See Harvey, Ellery H., assignor.)
- Perkins Glue Company. (See Perkins, J. G. B., and Stryker, assignors.)
- Perkins Glue Company. (See Williams, F. S., Perkins, and Stryker, assignors.)
- Perkins, Harry F., assignor to Rosanoff Process Company, Pittsburgh, Pa. Fractionating apparatus. No. 1,386,020; Aug. 2; v. 289; p. 12.
- Perkins, James G. B. (See Williams, F. S., Perkins, and Stryker.)
- Perkins, James G. B., and J. B. B. Stryker, Lansdale, Pa., assignors to Perkins Glue Company. Making vegetable glue. No. 1,378,128; May 17; v. 286; p. 444.
- Perkins, James O., Auburn, N. Y., assignor to Hamel Shoe Machinery Company. Welt grooving and beveling machine. No. 1,396,765; Nov. 1.
- Perkins, John W. (See Raynaud, Ernest A., assignor.)
- Perkins, Julian L., West Springfield, assignor to Perkins Appliance Company, Springfield, Mass. Broach-tooth. No. 1,396,523; Nov. 8.
- Perkins, Julian L., West Springfield, and F. W. Sickles, assignors to Perkins Appliance Company, Springfield, Mass. Broach. No. 1,370,837; Mar. 8; v. 284; p. 251.
- Perkins, Julian L., West Springfield, and F. W. Sickles, assignors to Perkins Appliance Company, Springfield, Mass. Fluid-control feed. No. 1,372,903; Mar. 29; v. 284; p. 811.
- Perkins, Laurence M. (See Hellmund, R. E., and Perkins.)
- Perkins, Laurence M., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,374,521; Apr. 12; v. 285; p. 262.
- Perkins, Lee R. (See Perkins, Alvin C., assignor.)
- Perkins, Lester C., and R. F. McKinney, Mechanicsville, N. Y. Grate-bar. No. 1,389,529; Aug. 30; v. 289; p. 942.
- Perkins, Louis J., Lewiston, Idaho. Tire-mounting. No. 1,398,566; Nov. 29.
- Perkins, Louis J., Lewiston, Idaho. Toy aeroplane. No. 1,400,097; Dec. 13.
- Perkins, Oren, Fayette, Mo. Piston-grinding machine. No. 1,391,849; Sept. 27; v. 290; p. 689.
- Perkins, Richard E., Joplin, Mo. Article-holder. No. 1,365,190; Jan. 11; v. 282; p. 264.
- Perkins, Richard E., Joplin, Mo. Fountain-pen. No. 1,365,191; Jan. 11; v. 282; p. 264.
- Perkins, Richard E., Joplin, Mo. Fountain-pen. No. 1,369,184; Feb. 22; v. 283; p. 593.
- Perkins, Richard E., Joplin, Mo. Fountain-pen. No. 1,369,185; Feb. 22; v. 283; p. 593.
- Perkins, Richard E., Boston, Mass. Razor. No. 1,388,598; Aug. 23; v. 289; p. 703.
- Perkins, Robert B., Oklahoma, Okla. Transmission mechanism. No. 1,399,573; Dec. 6.
- Perkins, Roy F., Middleboro, Mass. Wall-bracket. No. 1,390,539; Sept. 13; v. 290; p. 288.
- Perkins, Thomas F., Atlanta, Tex. Automatic toller. No. 1,394,760; Oct. 25.
- Perkins, Thomas F., Atlanta, Tex. Grain-toller. No. 1,394,761; Oct. 25.
- Perkins, William E. (See Gilbert, J., and Perkins.)
- Perl, Albert H. F., Chiswick, England. Fastening device. No. 1,382,849; June 28; v. 287; p. 644.
- Perlantino, O. Ce. Pe G. m. b. H. (See Lazarus, Isaac, assignor.)
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,374,099; Apr. 5; v. 285; p. 140.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,374,100; Apr. 5; v. 285; p. 140.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,374,101; Apr. 5; v. 285; p. 140.
- Perlman, Louis H., New York, N. Y. Rim-operating tool. No. 1,374,102; Apr. 5; v. 285; p. 140.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,374,103; Apr. 5; v. 285; p. 141.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,374,104; Apr. 5; v. 285; p. 141.
- Perlman, Louis H., New York, N. Y. Demountable rim. No. 1,374,105; Apr. 5; v. 285; p. 141.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,374,106; Apr. 5; v. 285; p. 141.
- Perlman, Louis H., New York, N. Y. Wheel. No. 1,374,107; Apr. 5; v. 285; p. 141.
- Perlman, Louis H., New York, N. Y., assignor to General Motors Corporation. Rim-operating tool. No. 1,388,194; Aug. 23; v. 289; p. 623.
- Perlman, Louis H., New York, N. Y., assignor to General Motors Corporation. Demountable-rim-operating tool. No. 1,388,195; Aug. 23; v. 289; p. 623.
- Perlman, Louis H., New York, N. Y., assignor to General Motors Corporation. Rim. No. 1,388,196; Aug. 23; v. 289; p. 623.



*Alphabetical list of patentees—Continued.*

- Perlman, Louis H., New York, N. Y., assignor to General Motors Corporation. Wheel. No. 1,388,197; Aug. 23; v. 289; p. 623.
- Permalife Storage Battery Co. (See Smith, Malcom O., assignor.)
- Permanent Product Company. (See Jones, Harry B., assignor.)
- Pernot, Frederick E., assignor of one-third to G. L. Greves, Berkeley, Calif. Frequency-selecting receiving-circuit. No. 1,366,830; Jan. 25; v. 282; p. 669.
- Pérony, Jean, assignor to Societe d'Outilsage Mecanique et d'Usinage d'Artilerie, St.-Ouen, France. Cover for digesters and other apparatus. No. 1,371,393; Mar. 15; v. 284; p. 421.
- Perovich, Rade N., Washoe, Mont. Clothes-drying apparatus. No. 1,386,199; Aug. 2; v. 289; p. 47.
- Perregaux, Henri, Lausanne, Switzerland. Graphic reproduction. No. 1,365,058; Jan. 11; v. 282; p. 238.
- Perreten, Arnold E. (See Hearn, H. S., and Perreten.)
- Perri, Angelo, Bellingham, assignor to Reece Shoe Machinery Company, Boston, Mass. Machine for lasting stitched-down shoes. No. 1,398,528; Nov. 29.
- Perrin, Arthur, Brookline, Mass. Optical instrument. No. 1,400,098; Dec. 13.
- Perrin, Bertrand, *et al.* (See Brown, William E., assignor.)
- Perrin, John G., Detroit, Mich. Automobile-pump. No. 1,389,782; Sept. 6; v. 290; p. 45.
- Perrin, John V., Lynn, Mass., Ticket - holder. No. 1,393,696; Oct. 11.
- Perrin, Lucien E. T., Paris, France. Insulating unit for electric suspension-chains. No. 1,391,576; Sept. 20; v. 290; p. 561.
- Perrin, Tolbert M., Bozeman, Mont. Gem-mounting. No. 1,383,146; June 28; v. 287; p. 701.
- Perrine, George H., Hastings-upon-Hudson, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Slide-buckle. No. 1,400,178; Dec. 13.
- Perrings, John A., Springfield, Ill. Chinch-bug killer. No. 1,377,273; May 10; v. 286; p. 227.
- Perron, John, Salem, Mass. Invalid-table. No. 1,401,639; Dec. 27.
- Perrow, Bryce B., Tacoma, Wash. Display-box. No. 1,399,273; Dec. 6.
- Perrow, James S., Altavista, assignor of one-third to J. E. Brochu, Esmont, Va. Furnace. No. 1,390,309; Sept. 13; v. 290; p. 242.
- Perry, Alice, administratrix. (See Clay, Anson E.)
- Perry, Arthur H., De Witt, Ark. Switch. No. 1,393,312; Oct. 11.
- Perry, Charles J., Jr., and N. Currie, San Antonio, Tex. Watch belt-buckle. No. 1,383,968; July 5; v. 288; p. 147.
- Perry, Clarence A., Forest Hills, N. Y. Combined exerciser and weighing-scale. No. 1,396,524; Nov. 8.
- Perry, Clarence C., Percy, Ill. Mining-machine. No. 1,366,096; Jan. 18; v. 282; p. 480.
- Perry, Edwin H. (See Miller, A. C., and Perry.)
- Perry, Emanuel J., New Bedford, Mass. Washing-machine. No. 1,400,977; Dec. 20.
- Perry, Frank W., Los Angeles, Calif. Earth-auger. No. 1,399,074; Dec. 6.
- Perry, Frederick H., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding cutting-edges. No. 1,400,767; Dec. 20.
- Perry, Grover, Chicago, Ill. Marker. No. 1,373,569; Apr. 5; v. 285; p. 37.
- Perry, Hubert M., assignor to S. L. Woods, Chicago, Ill. Antifriction-bearing. No. 1,398,390; Nov. 29.
- Perry and Hutchins' Laundry Appliance Company. (See Hutchins, Arthur W., assignor.)
- Perry, Jackson L. (See Wilson, W. W., and Perry.)
- Perry, John J., Bosworth, Mo. Sand-excluder. No. 1,379,477; May 24; v. 286; p. 772.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Construction material and producing the same. No. 1,369,186; Feb. 22; v. 283; p. 593.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Coated construction material and making the same. No. 1,369,187; Feb. 22; v. 283; p. 594.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Conduit. No. 1,382,740; June 28; v. 287; p. 624.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Molded article in laminated form and making the same. No. 1,386,276; Aug. 2; v. 289; p. 63.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Building-felt or construction material. No. 1,386,277; Aug. 2; v. 289; p. 63.
- Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Construction material. No. 1,400,312; Dec. 13.
- Perry, Searal M., Roseland, assignor of one-half to J. J. Stoll, Chicago, Ill. Vehicle-wheel. No. 1,396,283; Nov. 8.
- Perry, Thomas O., Oak Park, Ill. Vacuum heating system. No. 1,364,139; Jan. 4; v. 282; p. 17.
- Perry, Thomas O., Oak Park, Ill. Heat-regulator. No. 1,378,556; May 17; v. 286; p. 525.
- Perry & Webster. (See Webster, Paul W., assignor.)
- Perryman, Ignatius P., Memphis, Tenn. Attachment for motor-vehicles. No. 1,394,346; Oct. 18.
- Pershing, Hazel B., San Francisco, Calif. Piston-ring. No. 1,393,904; Oct. 18.
- Person, John, Netcong, N. J. Gutter for windshields. No. 1,375,104; Apr. 19; v. 285; p. 437.
- Persson, Paul, Chicago, Ill. Hoe. No. 1,364,140; Jan. 4; v. 282; p. 17.
- Persson, Paul, assignor to Sanitary Garbage Box Co., Chicago, Ill. Mold. No. 1,365,124; Jan. 11; v. 282; p. 252.
- Persson, Paul, assignor to Sanitary Garbage Box Company, Chicago, Ill. Door-hinge. No. 1,391,007; Sept. 20; v. 290; p. 445.
- Perusse, George L., Chicago, Ill., assignor to O-So-Ezy Products Company. Mop. No. 1,398,567; Nov. 29.
- Pescod, Ernest G., *et al.* (See Berry, Bert C., assignor.)
- Peskind, Samuel, Cleveland, Ohio. Apparatus for vaporizing fuel-oils and the like. No. 1,391,789; Sept. 27; v. 290; p. 676.
- Pessels, Walter C., Brookline, assignor to Whittemore Bros. Corp., Cambridge, Mass. Liquid-dauber. No. 1,389,071; Aug. 30; v. 289; p. 852.
- Pessi, Adolfo, Trieste, Italy. Composition for preventing incrustation in steam-boilers. No. 1,399,651; Dec. 6.
- Pestel, William M., assignor to Schaar & Company, Chicago, Ill. Flash-point-testing instrument. No. 1,364,517; Jan. 4; v. 282; p. 92.
- Pestel, William M., assignor to Schaar & Company, Chicago, Ill. Analytical balance and the like. No. 1,387,998; Aug. 16; v. 289; p. 528.
- Pester, Maxwell E., F. C. Porter, and W. G. Hofman, Bridgeport, Conn. Game apparatus. No. 1,370,479; Mar. 1; v. 284; p. 137.
- Pesznecker, Stephen P., assignor of one-half to Dr. H. V. Adix, Estacada, Oreg. Cantaliver front spring. No. 1,382,541; June 21; v. 287; p. 532.
- Peszternak, Gustav, Trenton, N. J. Mirror and comb holder for hats. No. 1,398,273; Nov. 29.
- Peszternak, Gustav, Trenton, N. J. Wrench. No. 1,398,274; Nov. 29.
- Peteler, Adolph, Freeport, N. Y. Lifting-jack. No. 1,393,242; Oct. 11.
- Peter, Alfred, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Protected firing mechanism for internal-combustion engines. No. 1,388,969; Aug. 30; v. 289; p. 821.
- Peter, Francis A., Newside, Pa. Snow-guard. No. 1,366,703; Jan. 25; v. 282; p. 644.
- Peter, Frank M., *et al.* (See Schwybold, Ray W., assignor.)
- Peter, Stephen, Omaha, Nebr. Combined key ring and holder. No. 1,401,184; Dec. 27.
- Peterkin, Guy S., Seattle, Wash. Tampon. No. 1,401,358; Dec. 27.
- Petermann, Otto, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Segment-shift for typewriting-machines. No. 1,387,939; Aug. 16; v. 289; p. 516.
- Petermann, Otto, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Segment-shift for typewriting-machines. No. 1,387,940; Aug. 16; v. 289; p. 516.
- Peters, Arthur E., Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Centering device. No. 1,379,935; May 31; v. 286; p. 933.
- Peters, Arthur H., Fort Wayne, Ind. Gearing for washing-machines. No. 1,391,272; Sept. 20; v. 290; p. 499.
- Peters, Charles H. (See Peters, John and C. H.)
- Peters, Charles L. (See Tufts, J. W., and Peters.)
- Peters, Chauncey G., Washington, D. C. Headlight diffraction-lens. No. 1,397,822; Nov. 22.
- Peters, Cornelius A., assignor, by mesne assignments, to Beeman Tractor Company, Minneapolis, Minn. Agricultural implement. (Reissue.) No. 15,029; Jan. 18; v. 282; p. 528.
- Peters, Edward M., Medford, and P. Vilardo, Somerville, Mass. Toothbrush container. No. 1,380,246; May 31; v. 286; p. 991.
- Peters, Frank M., New York, N. Y., and W. H. Hungerford, Chicago, Ill.; said Hungerford assignor to said Peters. Machine for applying labels, seals, and the like. No. 1,380,924; June 7; v. 287; p. 115.
- Peters, Frederick, New York, N. Y. Attachment for children's carriages. No. 1,388,756; Aug. 23; v. 289; p. 734.
- Peters, Frederick J., Milwaukee, Wis. Target. No. 1,389,977; Sept. 6; v. 290; p. 84.
- Peters, Frederick W., West Park, assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,364,311; Jan. 4; v. 282; p. 52.
- Peters, George A., Jr., Baltimore, Md., assignor to Stewart Dickson and Company, Incorporated, New York, N. Y. Packing. No. 1,369,905; Mar. 1; v. 284; p. 29.
- Peters, Gustav H., and R. E. Shoars, Milwaukee, Wis. Ash-sifter. No. 1,391,073; Sept. 20; v. 290; p. 459.
- Peters, Heber C., New York, N. Y., assignor to Peters-Morse Manufacturing Corporation. Adding-machine. No. 1,386,021; Aug. 2; v. 289; p. 12.
- Peters, Heber C., New York, N. Y., assignor to Peters-Morse Manufacturing Corporation. Adding-machine. No. 1,386,022; Aug. 2; v. 289; p. 12.
- Peters, Jacob H., Evansville, Ind. Kitchenola. (Reissue.) No. 15,106; May 17; v. 286; p. 578.



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- Peters, John and C. H., London, England. Tool-cabinet. No. 1,371,434; Mar. 15; v. 284; p. 429.
- Peters, John J., assignor of one-half to N. B. Akitt, Oelwein, Iowa. Lateral take-up for driving-boxes. No. 1,397,110; Nov. 15.
- Peters, Karl R., Philadelphia, Pa. Smoothing-tool. No. 1,374,604; Apr. 12; v. 285; p. 279.
- Peters, Louis D., Jackson, Ohio. Signal-lantern. No. 1,389,158; Aug. 30; v. 289; p. 869.
- Peters Machine and Manufacturing Company, The. (See Peters, Frederick W., assignor.)
- Peters Machine and Manufacturing Company, The. (See Thiemer, William H., assignor.)
- Peters-Morse Manufacturing Corporation. (See Peters, Heber C., assignor.)
- Peters, Shafeh, Paris, assignor of one-half to C. M. Hadad, Tyler, Tex. Condiment-holder. No. 1,375,929; Apr. 26; v. 285; p. 626.
- Peters, Walter, Chicago, Ill. Cake-machine. No. 1,397,981; Nov. 22.
- Peters, William. (See Cates, C. S., and Peters.)
- Peters, William A., assignor to International Patent Licensing Corporation, Chicago, Ill. Photographic camera. No. 1,374,678; Apr. 12; v. 285; p. 293.
- Peters, William A., assignor to International Patent Licensing Corporation, Chicago, Ill. Photographic camera. No. 1,395,293; Nov. 1.
- Peters, William H., Sutherlin, Oreg. Sectional cable for handling logs. No. 1,372,368; Mar. 22; v. 284; p. 665.
- Petersen, Alfred, Frankfurt-on-the-Main, Germany, assignor to International Precipitation Company, Los Angeles, Calif. Means for cleaning the electrodes in electrical fume-precipitators. No. 1,399,441; Dec. 6.
- Petersen, Anker, Winthrop, Mass., assignor, by mesne assignments, to The American Wiremold Company, Hartford, Conn. Making laces. No. 1,380,411; June 7; v. 287; p. 16.
- Petersen, Anker, Winthrop, Mass., assignor to American Wiremold Company, Hartford, Conn. Strand-guide for braiding-machines. No. 1,386,071; Aug. 2; v. 289; p. 22.
- Petersen, Hans, assignor to The Linograph Company, Davenport, Iowa. Typographical machine. No. 1,385,585; July 26; v. 288; p. 687.
- Petersen, Holger S., Brooklyn, N. Y. Measuring device. No. 1,385,270; July 19; v. 288; p. 547.
- Petersen, John H. D., assignor to Link-Belt Company, Chicago, Ill. Coal-handling apparatus. No. 1,375,105; Apr. 19; v. 285; p. 437.
- Petersen, Oluf G., Somerset, Ky. Shaker-screen apparatus. No. 1,372,775; Mar. 29; v. 284; p. 784.
- Petersen, Paul W., Chicago, Ill. Refrigerating apparatus. No. 1,388,295; Aug. 23; v. 289; p. 643.
- Petersen, Paul W., Chicago, Ill. Container for comestibles. No. 1,388,296; Aug. 23; v. 289; p. 643.
- Petersen, Paul W., Chicago, Ill. Rack for comestibles. No. 1,388,297; Aug. 23; v. 289; p. 644.
- Petersen, Paul W., Chicago, Ill. Preserving comestibles. No. 1,388,298; Aug. 23; v. 289; p. 644.
- Petersen, Peter, Indianapolis, Ind., assignor of one-half to T. J. Coster, Chicago, Ill. Producing lactic ferment culture for milk. No. 1,401,278; Dec. 27.
- Petersen, William, De Witt, Nebr. Wrench. No. 1,392,443; Oct. 4.
- Peterson, Aaron, Chicago, Ill. Renewable safety-fuse. No. 1,375,171; Apr. 19; v. 285; p. 450.
- Peterson, Arvid L. (See Peir, Alois H., Peterson, and Molas.)
- Peterson, Axel. (See Dale, Charles O., assignor.)
- Peterson, Axel, assignor to John E. Sjöstrom Company, Incorporated, Philadelphia, Pa. Filing case or cabinet. No. 1,366,931; Feb. 1; v. 283; p. 10.
- Peterson, C. Petrus, *et al.* (See Cave, Daniel B., assignor.)
- Peterson, Carl A., Superior Wis. Gas-mixer. No. 1,386,023; Aug. 2; v. 289; p. 13.
- Peterson, Carl E., Kerkhoven, Minn. Plow-beam brace. No. 1,392,444; Oct. 4.
- Peterson, Carl J., Eldridge, N. D. Runner attachment. No. 1,375,727; Apr. 26; v. 285; p. 588.
- Peterson, Charles, Leal, N. D. Trap-door guard. No. 1,385,271; July 19; v. 288; p. 547.
- Peterson, Charles F., Schenectady, N. Y., assignor to General Electric Company. Process and apparatus for the manufacture of sheets by aggregation of flake materials. No. 1,386,896; Aug. 9; v. 289; p. 258.
- Peterson, Charles J. (See Gneiss, G. H., and Peterson.)
- Peterson, Claus E., Worcester, assignor to Iverson Piano Player Company, Boston, Mass. Music-sheet-guiding mechanism. No. 1,389,693; Sept. 6; v. 290; p. 26.
- Peterson, Claus E., Worcester, assignor to Iverson Piano Player Company, Boston, Mass. Pneumatic piano-player. No. 1,389,694; Sept. 6; v. 290; p. 27.
- Peterson, Edward W., St. Paul, Minn. Fastening-clasp for jewelry. No. 1,383,848; July 5; v. 288; p. 123.
- Peterson, Edwin A., Madison, Wis., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,397,544; Nov. 22.
- Peterson, Edwin T., Gowrie, Iowa. Fencepost. No. 1,400,455; Dec. 13.
- Peterson, Ewart E., Seattle, Wash. Rock-drilling machine. No. 1,379,283; May 24; v. 286; p. 736.
- Peterson, Ferdinand B., New York, N. Y. Wafer-tongs. No. 1,374,522; Apr. 12; v. 285; p. 263.
- Peterson, Frederick R., Spokane, Wash. Brake attachment for automobiles. No. 1,389,159; Aug. 30; v. 289; p. 869.
- Peterson, Fredolf J., assignor to The McCaskey Register Company, (Incorporated in 1914,) Alliance, Ohio. Card-holder. No. 1,374,863; Apr. 12; v. 285; p. 328.
- Peterson, George. (See Swenson, Gustav, assignor.)
- Peterson, Harry W., Springfield, Ill. Amusement device. No. 1,372,542; Mar. 22; v. 284; p. 698.
- Peterson, Henry. (See Peterson, John A. J. and H.)
- Peterson, Henry, Dunkirk, Mont. Sadiron. No. 1,377,971; May 10; v. 286; p. 362.
- Peterson, Henry A., Atwood, Kans. Dump for grain-elevators and the like. No. 1,394,577; Oct. 25.
- Peterson, Henry G., Jewell Junction, Iowa. Dumping-bed. No. 1,369,299; Feb. 22; v. 283; p. 615.
- Peterson, Johann G., Jersey City, N. J. Electrical attachment-plug. No. 1,367,562; Feb. 8; v. 283; p. 193.
- Peterson, Johann G., Hartford, Conn. Electrical attachment-plug. (Reissue.) No. 15,043; Feb. 15; v. 283; p. 517.
- Peterson, John, Ashtabula, Ohio. Hatch-cover and bathing-down clamp. No. 1,364,800; Jan. 4; v. 282; p. 145.
- Peterson, John, Minneapolis, Minn. Storm-sash. No. 1,368,450; Feb. 15; v. 283; p. 411.
- Peterson, John, Fairbault, Minn. Table-leaf support. No. 1,393,566; Oct. 11.
- Peterson, John A. and H., Kansas City, Mo. Mattress-conveyer. No. 1,381,429; June 14; v. 287; p. 262.
- Peterson, John E., Newark, N. J. Trimming-die. No. 1,396,230; Nov. 8.
- Peterson, John J., Steubenville, Ohio. Window-cleaning device. No. 1,381,884; June 14; v. 287; p. 349.
- Peterson, John J., Steubenville, Ohio. Window-cleaning device. No. 1,383,018; June 28; v. 287; p. 677.
- Peterson, John M., Dawson, Minn. Forming secondary-battery plates. No. 1,375,317; Apr. 19; v. 285; p. 478.
- Peterson, Jonathan, Brooklyn, assignor to Combination Machine Company, New York, N. Y. Packing and preserving plug-tobacco. No. 1,398,568; Nov. 29.
- Peterson, Jonathan, Brooklyn, assignor to Combination Machine Company, New York, N. Y. Packing and preserving plug-tobacco. No. 1,398,569; Nov. 29.
- Peterson, Louis H. (See Melin, Frank O., assignor.)
- Peterson, Nels, Delano, Calif. Post-puller. No. 1,389,456; Aug. 30; v. 289; p. 928.
- Peterson, Niels, St. Anthony, Idaho. Antifreeze head-gate. No. 1,377,921; May 10; v. 286; p. 352.
- Peterson, Niels J., Minneapolis, Minn. Valve-grinder. No. 1,393,567; Oct. 11.
- Peterson, Olef E., Idaho Falls, Idaho. Rotary engine. No. 1,378,897; May 24; v. 286; p. 663.
- Peterson, Oscar, Melrose Park, Ill. Vehicle-spring. No. 1,386,200; Aug. 2; v. 289; p. 48.
- Peterson, Oscar L., Danielson, Conn. Speck-dye composition. No. 1,386,201; Aug. 2; v. 289; p. 48.
- Peterson, Paul, Juneau, Alaska. Automatic fishhook. No. 1,388,058; Aug. 16; v. 289; p. 539.
- Peterson, Per A., New York, N. Y. Toy rowboat. No. 1,376,827; May 3; v. 286; p. 85.
- Peterson, Peter, Greenville, Mich. Fruit-jar holder. No. 1,370,555; Mar. 8; v. 284; p. 197.
- Peterson, Peter A., Omaha, Nebr. Dump-wagon. No. 1,392,445; Oct. 4.
- Peterson, Peter L., Worcester, Mass. Wire connection for strain-insulators. No. 1,374,229; Apr. 12; v. 285; p. 205.
- Peterson, Tron O., assignor to U. S. Expansion Bolt Co., New York, N. Y. Attaching device. No. 1,386,202; Aug. 2; v. 289; p. 48.
- Peterson, Victor W., Chicago, Ill. Ventilating curtain-window. No. 1,388,370; Aug. 23; v. 289; p. 659.
- Peterson, Walter C., Detroit, Mich. Heat-treating steel. No. 1,380,676; June 7; v. 287; p. 67.
- Peterson, William J. (See Moritz, D. A., and Peterson.)
- Peth, Herman W., assignor to Peth Pressing Process, Inc., Rochester, N. Y. Pressing. No. 1,379,312; May 24; v. 286; p. 742.
- Peth, Herman W., Rochester, N. Y. Pressing-iron. No. 1,395,355; Nov. 1.
- Peth Pressing Process, Inc. (See Peth, Herman W., assignor.)
- Petit, Morris H. (See Adams, Edward M., assignor.)
- Petiot, Napoleon, New York, N. Y. Making an alloy of nickel and zirconium. No. 1,387,663; Aug. 16; v. 289; p. 461.
- Petiot, Napoleon, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Alloy of iron zirconium and silicon and the production thereof. No. 1,389,695; Sept. 6; v. 290; p. 27.
- Petiot, Napoleon, New York, N. Y., and R. Turnbull, Niagara Falls, N. Y. Alloy of nickel and iron and the production thereof. No. 1,389,696; Sept. 6; v. 290; p. 27.
- Petit, Albert, Marseille, France. Tilling apparatus for self-propelled tilling-machines. No. 1,365,192; Jan. 11; v. 282; p. 264.
- Petrak, George W., Marcellus, Wash. Grease-cup wrench. No. 1,400,456; Dec. 13.
- Petrelli, Joseph V., assignor to The Navy Gear Manufacturing Corporation, New Haven, Conn. Reversing mechanism. No. 1,397,111; Nov. 15.



- Petres, Paul, Long Island City, N. Y. Twin aeroplane-propeller. No. 1,364,580; Jan. 4; v. 282; p. 103.
- Petri, Gunther H., Brookline, Mass. Apparatus for printing on waxed paper and the like. No. 1,387,941; Aug. 16; v. 289; p. 516.
- Petri-Palmedo, David, Bridgeport, assignor to Muffler Phone Mfg. Co., Inc., Meriden, Conn. Muffler attachment for telephones. No. 1,372,162; Mar. 22; v. 284; p. 625.
- Petri, Peter, Lacon, Ill. Starter. No. 1,366,097; Jan. 18; v. 282; p. 480.
- Petricone, Sabatino, Newport, Ky. Pump. No. 1,381,224; June 14; v. 287; p. 224.
- Petrie, August, West Allis, Wis. Extensible-slide support for wardrobe-trunks. No. 1,370,667; Mar. 8; v. 284; p. 218.
- Petrie, John W., New Haven, Conn. Kaleidoscope. No. 1,383,019; June 28; v. 287; p. 677.
- Petroff, Charles, Toledo, Ohio. Plow. No. 1,369,464; Feb. 22; v. 283; p. 647.
- Petroff, Louis, Burgettstown, Pa. Mine-switch. No. 1,373,147; Mar. 29; v. 284; p. 859.
- Petroleum Combustion Company, The. (See Wilson, Amyuit L., assignor.)
- Petroleum Heat and Power Company. (See Fesler, Milton A., assignor.)
- Petroleum Rectifying Company. (See Quinby, Henry R., assignor.)
- Petroleum Rectifying Company of California. (See Alden, S. F., and Eddy, assignors.)
- Petrovics, Fred J. (See Deam, Henry D., assignor.)
- Petrovics, Fred J., Chicago, Ill. Temperature-controller. No. 1,374,230; Apr. 12; v. 285; p. 206.
- Petrovsky, Vyacheslav. (See Bentheny, G. W., and Petrosky, Alex.)
- Petrow, Alex., San Francisco, Calif. Adjustable picture-frame. No. 1,385,950; July 26; v. 288; p. 760.
- Petsche, Gustav B., Yonkers, N. Y. Rotary pump. No. 1,380,012; May 31; v. 286; p. 948.
- Petsche, Gustav B., Yonkers, N. Y. Rotary pump. No. 1,380,013; May 31; v. 286; p. 948.
- Petsche, Gustav B., Yonkers, N. Y. Rotary pump. No. 1,380,014; May 31; v. 286; p. 948.
- Petsche, Gustav B., Yonkers, N. Y. Rotary pump. No. 1,380,015; May 31; v. 286; p. 948.
- Petsche, Gustav B., Yonkers, N. Y. Rotary compressor. No. 1,380,016; May 31; v. 286; p. 948.
- Petsche, Gustav B., Yonkers, N. Y. Rotary pump. No. 1,380,017; May 31; v. 286; p. 949.
- Petsche, Gustav B., Yonkers, N. Y. Rotary compressor. No. 1,380,018; May 31; v. 286; p. 949.
- Petsche, Gustav B., Yonkers, N. Y. Rotary pump or compressor. No. 1,384,276; July 12; v. 288; p. 260.
- Petsche, Gustav B., Yonkers, N. Y. Rotary compressor. No. 1,390,585; Sept. 13; v. 290; p. 297.
- Petsche, Gustav B., Yonkers, N. Y. Rotary compressor. No. 1,390,586; Sept. 13; v. 290; p. 298.
- Petsche, Gustav B., Yonkers, N. Y. Rotary pump. No. 1,397,699; Nov. 22.
- Petsche, Gustav B., Yonkers, N. Y. Non-return valve for pumps and similar uses. No. 1,397,700; Nov. 22.
- Pettee, Herbert B., Providence, R. I. Carrier for paste-board containers. No. 1,392,791; Oct. 4.
- Pettengill, George M., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Channeling shoe-soles. No. 1,399,024; Dec. 6.
- Pettengill, Henry C., Omaha, Nebr. Metallic railway-tie. No. 1,370,480; Mar. 1; v. 284; p. 138.
- Petterson Limited. (See Brooks, Herbert, assignor.)
- Petterson Limited. (See Townner, Arthur D., assignor.)
- Petterson, Bertill C., Memphis, Tenn. Window-guard. No. 1,378,378; May 17; v. 286; p. 490.
- Petterson, Bengt A. (See Blomberg, K. G., and Petterson.)
- Petterson, Hugo E., Stockholm, Sweden. Mold-pressing machine. No. 1,387,942; Aug. 16; v. 289; p. 517.
- Petteys, Willard A., Wilcox, Nebr. Grain cleaner, separator and drier. No. 1,398,275; Nov. 29.
- Pettibone, Mulliken Company. (See Strom, E. N., and Erikson, assignors.)
- Pettis, John G., Chicago, Ill. Torch. No. 1,376,828; May 3; v. 286; p. 85.
- Pettit, Charles A., St. Louis, Mo. Phonograph. No. 1,377,027; May 3; v. 286; p. 123.
- Pettit, Charles A., St. Louis, Mo., assignor to C. W. Hunt Company, Inc., West New Brighton, N. Y. Rope-coupling. No. 1,374,469; Apr. 12; v. 285; p. 252.
- Pettit, Hugh, Memphis, Tenn. Lint-cotton-treating machine. No. 1,401,439; Dec. 27.
- Pettit, John H., Great Falls, Mont. Auto-spring oiler. No. 1,395,518; Nov. 1.
- Pettit, W. S., administrator. (See Sharkey, William J.)
- Pettitt, Lewis C., Chicago, Ill. Phonographic reproducer. No. 1,380,498; June 7; v. 287; p. 33.
- Pettkoske, Cleophas E., Chicago, Ill. Casket-carrier. No. 1,374,320; Apr. 12; v. 285; p. 223.
- Peltman, Albert V., Waimanuku Hokianga, New Zealand. Rotary cultivator. No. 1,371,571; Mar. 15; v. 284; p. 457.
- Petty, George B., Evanston, Ill. Flying toy. No. 1,378,193; May 17; v. 286; p. 456.
- Petty, Herbert H., Indianapolis, Ind. Combination fish and bait bucket. No. 1,373,830; Apr. 5; v. 285; p. 88.
- Petty, Herbert H., Indianapolis, Ind. Combination fish and bait bucket. No. 1,385,792; July 26; v. 288; p. 729.
- Petty, Walter M., assignor to Service Motor Truck Company, Wabash, Ind. Motor-vehicle spring. No. 1,377,430; May 10; v. 286; p. 258.
- Petty, William E., Providence township, Buena Vista county, Iowa. Drier. No. 1,387,168; Aug. 9; v. 289; p. 311.
- Pewther, Judson C., Denver, Colo. Folding table. No. 1,379,264; May 24; v. 286; p. 736.
- Pewther, Judson C., Denver, Colo. Foldable article and joint therefor. No. 1,379,285; May 24; v. 286; p. 736.
- Pewther, Judson C., Denver, Colo. Folding cot. No. 1,379,286; May 24; v. 286; p. 736.
- Pexton, Sidney A. (See Blessing, W., Howard, and Pexton.)
- Peyer, John, Brooklyn, N. Y. Screwdriver. No. 1,375,606; Apr. 19; v. 285; p. 532.
- Peyre, Jules, San Francisco, Calif. Vehicle direction-indicator. No. 1,374,605; Apr. 12; v. 285; p. 279.
- Peyre, Jules, San Francisco, Calif. Vehicle direction-indicator. No. 1,390,381; Sept. 13; v. 290; p. 256.
- Peyser, Joseph, Mount Vernon, N. Y., assignor, by mesne assignments, to Ackermann Manufacturing Company, Wheeling, W. Va. Seaming mechanism. No. 1,396,231; Nov. 8.
- Peyser, Joseph, Mount Vernon, N. Y., assignor, by mesne assignments, to Ackermann Manufacturing Company, Wheeling, W. Va. Heading-machine. No. 1,397,651; Nov. 22.
- Pfaff, William A. E., Kansas City, Mo. Sanitary douche. No. 1,384,210; July 12; v. 288; p. 246.
- Pfaff, William A. E., Kansas City, Mo. Ointment-appliator. No. 1,391,850; Sept. 27; v. 290; p. 689.
- Pfahl, Robert, Ventura, assignor of one-half to R. Dahlke, Ashley, N. D. Food-boiler. No. 1,374,108; Apr. 5; v. 285; p. 142.
- Pfannenstiehl, Harry, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,366,416; Jan. 25; v. 282; p. 586.
- Pfannenstiehl, Harry, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing telegraphy. No. 1,374,606; Apr. 12; v. 285; p. 279.
- Pfannenstiehl, Harry, East Orange, N. J., and E. F. Watson, assignors to Western Electric Company, Incorporated, New York, N. Y. Printing-telegraphs. No. 1,399,993; Dec. 13.
- Pfanstiehl, Carl A., Highland Park, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Puppet-valve. No. 1,393,726; Oct. 11.
- Pfanstiehl Company. (See Pfanstiehl, Carl A., assignor.)
- Pfau, Albert E., Rockford, Ill. Vending-machine. No. 1,397,604; Nov. 22.
- Pfau, Arnold, Milwaukee, Wis. Ventilator. No. 1,389,896; Sept. 6; v. 290; p. 68.
- Pfaudler Company, The. (See Nichols, Edgar B., assignor.)
- Pfeffer, John E., Chicago, Ill. Pressure-fluid motor. No. 1,400,236; Dec. 13.
- Pfefferkorn, William L., et al. (See Schloerb, Albert P., assignor.)
- Pfefferle, Raymond O., Madelia, Minn. Box or receptacle. No. 1,395,594; Nov. 1.
- Pfeifer, Bernard R., Jessie, N. D., assignor to The Pfeifer Straw Gas Producer Company, Fargo, N. D. Generating-retort construction. No. 1,364,801; Jan. 4; v. 282; p. 145.
- Pfeifer, Constant J., Calicoon, N. Y. Poultry-feeder. No. 1,398,041; Nov. 22.
- Pfeifer, Ferdinand A., assignor to The Eagle Engineering Company, Springfield, Ohio. Printer's stick. No. 1,364,639; Jan. 4; v. 282; p. 114.
- Pfeifer, John, assignor of one-third to C. L. Friermood, Springfield, Ohio. Direction-signal for motor-vehicles. No. 1,379,835; May 31; v. 286; p. 914.
- Pfeifer, Leo L., assignor to The John W. Brown Manufacturing Company, Columbus, Ohio. Power-press. No. 1,397,779; Nov. 22.
- Pfeifer Straw Gas Producer Company, The. (See Pfeifer, Bernard R., assignor.)
- Pfeifer, William, Jr., Jersey City, N. J. Alarm-clock. No. 1,381,225; June 14; v. 287; p. 225.
- Pfeiffer, Adolph, Chicago, Ill. Gong or signal. No. 1,367,563; Feb. 8; v. 283; p. 193.
- Pfeiffer, Adolph, Chicago, Ill. Clasp. No. 1,396,941; Nov. 15.
- Pfeiffer, Benjamin S., Chicago, Ill. Tractor of the track-laying type. No. 1,366,486; Jan. 25; v. 282; p. 600.
- Pfeiffer, Charles, and F. A. Wasson, Milwaukee, Wis. Oil-well washer. No. 1,375,106; Apr. 19; v. 285; p. 438.
- Pfeiffer, Frank W., Peekskill, N. Y. Bead-making tool. No. 1,375,218; Apr. 19; v. 285; p. 478.
- Pfeiffer, Fred B., Akron, Ohio. Tire-vulcanizing device. (Reissue.) No. 15,120; June 7; v. 287; p. 149.
- Pfeiffer, George, Jr., Camden, N. J. Wood preservation and means for effecting the same. No. 1,369,539; Feb. 22; v. 283; p. 662.



*Alphabetical list of patentees—Continued.*

- Pfeiffer, John F., Seattle, Wash. Continuous freezer. No. 1,396,972; Nov. 15.
- Pfeiffer, Louis A., San Francisco, Calif. Oil-fuel heater. No. 1,400,179; Dec. 13.
- Pfeiffer, Otto G., St. Louis, Mo., assignor to Clarotto Mfg. Co. Clutch. No. 1,372,245; Mar. 22; v. 284; p. 642.
- Pfeiffer, William G., St. Louis, Mo. Mud-hook. No. 1,395,868; Nov. 1.
- Pfeil, Charles J., assignor of one-half to Mrs. C. McGraw, Washington, D. C. Game. No. 1,388,599; Aug. 23; v. 289; p. 703.
- Pfeil, Rudolph, Jr., Milwaukee, Wis. Fire-extinguisher. No. 1,377,431; May 10; v. 286; p. 258.
- Pfager, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Locomotive trailer-truck. No. 1,381,498; June 14; v. 287; p. 274.
- Pfagler, Harry M., St. Louis, Mo. Booster-motor trailer-truck. No. 1,381,496; June 14; v. 287; p. 274.
- Pfager, Harry M., St. Louis, Mo. Booster-motor support. No. 1,401,553; Dec. 27.
- Pfagler, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Six-wheel car-truck. No. 1,381,497; June 14; v. 287; p. 274.
- Pfanz, Charles F., St. Louis, Mo. Paper-feeding mechanism. No. 1,378,194; May 17; v. 286; p. 456.
- Pfanz, Charles F., St. Louis, Mo. Means for feeding sheet material. No. 1,385,465; July 26; v. 288; p. 663.
- Pfingsten, John H., Milwaukee, assignor to Presto Color Company, Cudahy, Wis. Coloring-matter for leather and using the same. No. 1,371,572; Mar. 15; v. 284; p. 437.
- Pfingsten, John H., Milwaukee, assignor to Presto Color Company, Cudahy, Wis. Color-base for leather-finishers and making the same. No. 1,393,697; Oct. 11.
- Pfirman, George P. (See Bernardin, A. L., and Pfirman.)
- Pfueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Thumb-brake for fishing-reels. No. 1,379,692; May 31; v. 286; p. 887.
- Pfueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Lubricating device. No. 1,384,775; July 19; v. 288; p. 445.
- Pfeumer, Fritz and H., Dresden, Germany, assignors, by mesne assignments, to The Chemical Foundations Inc. Treatment of lumber. No. 1,386,727; Aug. 9; v. 289; p. 222.
- Pfeumer, Herman. (See Pfeumer, Fritz and H.)
- Pfugfelder, Robert H., Chicago, Ill. Dealcoholizing apparatus. No. 1,396,232; Nov. 8.
- Pfriemer, Charles J. and W. J., New York, N. Y. Piano-hammer. No. 1,365,840; Jan. 11; v. 282; p. 293.
- Pfriemer, William J. (See Pfriemer, Charles J. and W. J.)
- Pfommer, William D., West Berlin, N. J., and F. W. Adams, Milbourne, assignors to The Perfektone Corporation, Philadelphia, Pa. Sound-conveyer for talking-machines. No. 1,392,654; Oct. 4.
- Pfrunder, Xaver, Wohlen, Switzerland. Braiding-machine. No. 1,398,444; Nov. 29.
- Pfunder, Emil L., Windsor, assignor to The J. M. Ney Company, Hartford, Conn. Chuck. No. 1,398,341; Nov. 29.
- Phair, Robert A., Allendale, N. J., assignor to H. Kohnstamm & Co. Dye assistant. No. 1,372,038; Mar. 22; v. 284; p. 602.
- Phalar, Samuel E., assignor of one-half to R. H. Bean, Columbus, Ohio. Means for removing cotton droppings from floors. No. 1,382,542; June 21; v. 287; p. 532.
- Phaneuf, Toussaint, Newport News, Va. Cooker or lunch-box. No. 1,377,092; May 3; v. 286; p. 136.
- Phare, George A., assignor of one-fourth to C. E. Potter, Toronto, Ontario, Canada. Combined ruler and blotter. No. 1,364,886; Jan. 11; v. 282; p. 206.
- Phelan, Earl T., Jackson, Mich. Cushion-rim. No. 1,391,074; Sept. 20; v. 290; p. 459.
- Phelan, Joseph W. (See Tuttle, J. N., and Phelan.)
- Phelan, Joseph W. (See Wall, E. J., and Phelan.)
- Phelan, Joseph W., Medford, and E. J. Wall, Cambridge, assignors to Kalmus, Comstock & Westcott, Inc., Boston, Mass. Refining cacao-oil. No. 1,386,527; Aug. 2; v. 289; p. 110.
- Phelps Can Company. (See Phelps, Walter G., assignor.)
- Phelps Dodge Corporation. (See Stout, Harry H., assignor.)
- Phelps, Edwin S., New York, N. Y. Recording time-lock. No. 1,373,204; Mar. 29; v. 284; p. 871.
- Phelps, Elmer T., Westfield, Mass., assignor of one-half to G. H. Browne, New Haven, Conn. Sanitary blessing-font. No. 1,367,829; Feb. 8; v. 283; p. 245.
- Phelps, Frederick S., Sausalito, Calif., assignor to The American Steel and Wire Company of New Jersey. Wire rope. No. 1,373,632; Apr. 5; v. 285; p. 49.
- Phelps, George B., et al. (See Best, William N., assignor.)
- Phelps, Harry E., assignor to C. Kenyon Company, Inc., Brooklyn, N. Y. Coupling. No. 1,398,276; Nov. 29.
- Phelps, James C., Springfield, Mass., deceased; C. W. James, Jr., administrator. Pipe-cap for electric conduits. No. 1,378,195; May 17; v. 286; p. 456.
- Phelps, Leonard M., Philadelphia, Pa. Window-operating mechanism. No. 1,397,112; Nov. 15.
- Phelps, Lewis H. (See Ashley, Clarence S., assignor.)
- Phelps Manufacturing Company, The. (See Howard, Charles O., assignor.)
- Phelps, Sebring I., Wilmette, Ill. Electric stove. No. 1,376,829; May 3; v. 286; p. 85.
- Phelps, Sebring I., Wilmette, Ill. Electric water-heater. No. 1,399,515; Dec. 6.
- Phelps, Walter J., assignor to Phelps Can Company, Baltimore, Md. Can-seaming mandrel or horn. No. 1,370,556; Mar. 8; v. 284; p. 197.
- Phenix Cheese Company. (See Carpenter, L. E., and Eldredge, assignors.)
- Phenix Cheese Company. (See Garstin, George H., assignor.)
- Philadelphia Bronze Bearing & Tube Company. (See Small, George A., assignor.)
- Philadelphia Drying Machinery Company, The. (See Allsop, T., and Sibson, assignors.)
- Philadelphia Roll and Machine Company. (See Crook, Alfred I., assignor.)
- Philadelphia Storage Battery Company. (See Grinditch, William H., assignor.)
- Philadelphia Storage Battery Company. (See Heberling, R. L., and Holland, assignors.)
- Philadelphia Storage Battery Company. (See Holland, W. E., and Skinner, assignors.)
- Philadelphia Storage Battery Company. (See Holland, Walter E., assignor.)
- Philadelphia Textile Machinery Company, The. (See Ayres, E. B., and Bogaty, assignors.)
- Philadelphia Textile Machinery Company, The. (See Ayres, Elwood B., assignor.)
- Philadelphia Textile Machinery Company, The. (See Bogaty, Hermann, assignor.)
- Philadelphia Textile Machinery Company, The. (See Schwartz, Walter M., assignor.)
- Philbrin Corporation. (See Brinton, William C., Jr., assignor.)
- Philbin, Henry F. (See White, H. E., and Philbin.)
- Philip Carey Manufacturing Company, The. (See Ross, Earl, assignor.)
- Philip, Robert S., Los Angeles, Calif. Inking mechanism for printing-presses. No. 1,379,649; May 31; v. 286; p. 879.
- Philip and Tracey, Limited. (See Dupont, George C., assignor.)
- Philippoff, Alexis, New York, N. Y. Safety-first auto-signal. No. 1,372,369; Mar. 22; v. 284; p. 665.
- Philippeau, Henry, Sceaux, France. Speed multiplying and reducing gear. No. 1,368,570; Feb. 15; v. 283; p. 435.
- Philippi, Theodore F., East St. Louis, Ill. Hydraulic press. No. 1,382,315; June 21; v. 287; p. 488.
- Phillips, Frank, Hammond, Ind. Vegetable and fruit dispenser. No. 1,388,198; Aug. 23; v. 289; p. 623.
- Phillip, Peter, Chicago, Ill. Governor. No. 1,380,588; June 7; v. 287; p. 50.
- Philippi, Frank A., assignor of one-half to J. R. Kinckiner, Pottstown, Pa. Water-cooler. No. 1,391,075; Sept. 20; v. 290; p. 459.
- Phillips, Byron B., assignor to Gifford-Wood Co., Hudson, N. Y. Ice-saw. No. 1,390,158; Sept. 6; v. 290; p. 121.
- Phillips, Cecil O., New York, N. Y. Recovery of oil from copra. No. 1,369,205; Feb. 22; v. 283; p. 609.
- Phillips, Cecil O., assignor to The American Cotton Oil Company, New York, N. Y. Apparatus for molding soap. No. 1,391,970; Sept. 27; v. 290; p. 714.
- Phillips, Cecil O., assignor to The American Cotton Oil Company, New York, N. Y. Apparatus for molding soap. No. 1,391,971; Sept. 27; v. 290; p. 714.
- Phillips, Cecil O., assignor to The American Cotton Oil Company, New York, N. Y. Method and apparatus for molding soap. No. 1,391,972; Sept. 27; v. 290; p. 714.
- Phillips, Cecil O., assignor to American Cotton Oil Company, New York, N. Y. Apparatus for molding soap. No. 1,391,973; Sept. 27; v. 290; p. 714.
- Phillips, Cecil O., assignor to The American Cotton Oil Company, New York, N. Y. Apparatus for molding and cooling soap. No. 1,391,974; Sept. 27; v. 290; p. 715.
- Phillips, Cecil O., assignor to The American Cotton Oil Company, New York, N. Y. Method for molding and cooling soap. No. 1,391,975; Sept. 27; v. 290; p. 715.
- Phillips, Charles H., Malden, assignor to Phillips Flushing Tank Company, Boston, Mass. Flushing-valve. No. 1,388,481; Aug. 23; v. 289; p. 681.
- Phillips & Clark Stove Company. (See Weiss, Albert T., assignor.)
- Phillips, Delle M., Long Beach, Calif. Stainless paste. No. 1,384,917; July 19; v. 288; p. 474.
- Phillips, Donald B., et al. (See Fox, Frederick L., assignor.)
- Phillips, Edward S., London, England. Stair-eye to facilitate the laying down and taking up of stair carpets. No. 1,373,148; Mar. 29; v. 284; p. 859.
- Phillips, Edwin R., El Paso, Tex. Irrigator. No. 1,365,948; Jan. 18; v. 282; p. 452.
- Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Folding door. No. 1,377,626; May 10; v. 286; p. 294.
- Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Fire-door. No. 1,395,766; Nov. 1.
- Phillips Flushing Tank Company. (See Phillips, Charles H., assignor.)
- Phillips, Frank, Fort Crook, Nebr. Trap. No. 1,368,749; Feb. 15; v. 283; p. 470.



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- Phillips, Frank, Fort Crook, Nebr. Trap. No. 1,391,577; Sept. 20; v. 290; p. 561.
- Phillips, Frank, Hammond, Ind. Collapsible ironing-board stand. No. 1,399,574; Dec. 6.
- Phillips, Harry G. (See Winter, George J., assignor.)
- Phillips, Isidore, Los Angeles, Calif. Hinge. No. 1,350,587; June 7; v. 287; p. 50.
- Phillips, James E., New York, N. Y. Lock. No. 1,371,111; Mar. 8; v. 284; p. 303.
- Phillips, James J., Rochester, N. Y. Winding means for spring-motors. No. 1,399,790; Dec. 13.
- Phillips, James J., assignor to Colonial Multiphone Corporation, Rochester, N. Y. Electric winding mechanism for spring-motors. No. 1,365,724; Jan. 18; v. 282; p. 407.
- Phillips, John E., Birmingham, England. Guard for power-presses. No. 1,366,704; Jan. 25; v. 282; p. 644.
- Phillips, John F. (See Durnell, Cecil M., assignor.)
- Phillips, John H., Chicago, Ill. Anchor-drill bolt. No. 1,379,209; May 24; v. 286; p. 722.
- Phillips, John H., Chicago, Ill. Anchor-shell drill. No. 1,379,210; May 24; v. 286; p. 722.
- Phillips, John H., Chicago, Ill. Drill-chuck or the like. No. 1,392,702; Oct. 4.
- Phillips, John H., Chicago, Ill. Expansion-shell. No. 1,392,703; Oct. 4.
- Phillips, John W., Verona, N. J. Renewing and repairing worn metal surfaces. No. 1,374,321; Apr. 12; v. 285; p. 223.
- Phillips, John W., Chicago, Ill. Colloidal suspension of polymers and making the same. No. 1,395,242; Oct. 25.
- Phillips, John W., Hendon, assignor to Bishopsgate General Trading Company Limited, London, England. Gas-engine-starting device. No. 1,375,172; Apr. 19; v. 285; p. 450.
- Phillips, John W., Meriden, Conn., assignor to C. P. Landreth, Philadelphia, Pa. Centrifugal apparatus. No. 1,382,930; June 28; v. 287; p. 660.
- Phillips, Joseph, assignor of two-thirds to Berzon & Brezin, Philadelphia, Pa., and one-third to W. Kosakoff, Automatic ice-cream-cone machine. No. 1,369,048; Feb. 22; v. 283; p. 567.
- Phillips, Josephine M., Elizabeth, N. J. Bed-jack. No. 1,401,554; Dec. 27.
- Phillips, Louis, New York, N. Y., assignor to C. W. Parker, Leavenworth, Kans. Illusion apparatus. No. 1,370,223; Mar. 1; v. 284; p. 89.
- Phillips Mine and Mill Supply Co. (See Fleming, Frank L., assignor.)
- Phillips, Oscar. (See Ardo, J., and Phillips.)
- Phillips, Robert E., Portland, Ore. Wardrobe-trunk. No. 1,389,595; Sept. 6; v. 290; p. 7.
- Phillips, Robert H., Madisonville, Ky. Churn. No. 1,383,336; July 5; v. 288; p. 16.
- Phillips, Robert L. (See Hoil, Tobias, assignor.)
- Phillips, Ross M. G., New Haven, assignor to The Phillips Time Switch Co., Shelton, Conn. Timing device. No. 1,375,973; Apr. 26; v. 285; p. 635.
- Phillips, Ross M. G., New Haven, assignor to The Phillips Time Switch Co., Shelton, Conn. Timing mechanism. No. 1,393,394; Oct. 11.
- Phillips, Ross M. G., New Haven, Conn., assignor to Perlie P. Fallon, New York, N. Y. Phonograph lighting system. No. 1,400,694; Dec. 20.
- Phillips, Stanley, Iluka, assignor to The Efficient Gas Power Company, Limited, Sydney, New South Wales, Australia. Suction gas-generator. No. 1,382,118; June 21; v. 287; p. 451.
- Phillips, Thomas H., Jr. (See Sperry, E. A., and Phillips.)
- Phillips Time Switch Co., The. (See Phillips, Ross M. G., assignor.)
- Phillips, Wesley H., Oklahoma, Okla. Lawn-mower. No. 1,370,358; Mar. 1; v. 284; p. 114.
- Phillips, Will H., Chicago, Ill., assignor to Worthington Pump and Machinery Corporation. Condenser. No. 1,397,545; Nov. 22.
- Phillips, William, Auburn, Ill. Needle. No. 1,390,924; Sept. 13; v. 290; p. 366.
- Phillips, William, Chicago, Ill. Automobile-radiator. No. 1,391,500; Sept. 20; v. 290; p. 545.
- Phillips, William C., Robert Lee, Tex. Rake. No. 1,371,112; Mar. 8; v. 284; p. 108.
- Phillips, William W., Richmond, Va. Automatic coupling. No. 1,401,489; Dec. 27.
- Phillipson, Emil, New York, N. Y. Heating apparatus. No. 1,383,564; July 5; v. 288; p. 63.
- Phillou, William, Racine, Wis. Cradle-rocker. No. 1,370,359; Mar. 1; v. 284; p. 114.
- Philpott, Tyra A., Columbus, Mont. Tire-tube. No. 1,371,807; Mar. 15; v. 284; p. 501.
- Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Key-lock for calculating-machines. No. 1,384,632; July 12; v. 288; p. 336.
- Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Reverse-operation check for registers. No. 1,384,633; July 12; v. 288; p. 335.
- Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Carriage-lock for calculating-machines. No. 1,384,634; July 12; v. 288; p. 335.
- Phinney, Edgar E., assignor to Monroe Calculating Machine Company, New York, N. Y. Calculating-machine. No. 1,396,662; Nov. 8.
- Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Crank-handle latch. No. 1,396,663; Nov. 8.
- Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Setting-up means for calculating-machines. No. 1,399,652; Dec. 6.
- Phipps, Arthur, assignor to Southern-Rome Company, a branch of Rome Metallic Bedstead Company, Baltimore, Md. Double-deck bunk. No. 1,389,697; Sept. 6; v. 290; p. 27.
- Phipps, Edward, San Francisco, Calif. Amplifier for phonographs and the like. No. 1,381,430; June 14; v. 287; p. 262.
- Phipps, Edward H., Philadelphia, Pa. Vault and safe door. No. 1,376,355; Apr. 26; v. 285; p. 708.
- Phoebus, Margaret N. (See Phoebus, Mary E. and M. N.)
- Phoebus, Mary E. and M. N., Toms River, N. J. Doll and doll cut-out. No. 1,365,601; Jan. 11; v. 282; p. 344.
- Phoenix, Charles E., Bellingham, Wash. Surveyor's compass. No. 1,399,994; Dec. 13.
- Phoenix Hermetic Company. (See Taliaferro, Thomas L., assignor.)
- Phonoharp Company, The. (See Ballard, Harrie A., assignor.)
- Phonoharp Company, The. (See Nobbs, George H., assignor.)
- Photographic Appliances Corporation. (See Dye, Glen M., assignor.)
- Photometric Products Corporation. (See Ladd, Lester L., assignor.)
- Photostat Corporation. (See Greene, John S., assignor.)
- Piano, Mendel, Chicago, Ill. Tire-armor. No. 1,382,381; June 21; v. 287; p. 501.
- Piano and Organ Supply Company, The. (See Semple, James R., assignor.)
- Piaser, Abraham, Elmhurst, assignor to Rosenwasser Bros. Inc., Astoria, Long Island, N. Y. Safety device for power-presses. No. 1,375,760; Apr. 26; v. 285; p. 594.
- Piat, Joannes, Lyon, France. Carburetor. No. 1,368,451; Feb. 15; v. 283; p. 412.
- Piat, Joannes, Lyon, France. Carburetor. No. 1,371,931; Mar. 15; v. 284; p. 525.
- Piatt, Walter J., San Leandro, Calif. Rotary pump. No. 1,393,698; Oct. 11.
- Piccirilli, Pasquale J., U. S. Navy, assignor of one-half to H. W. Scofield, Buffalo, N. Y. Building construction. No. 1,365,059; Jan. 11; v. 282; p. 238.
- Picco, Giovanni, New York, N. Y. Life-saving apparatus. No. 1,378,273; May 17; v. 286; p. 471.
- Pichel, Herman, New York, N. Y. Handbag. No. 1,381,226; June 14; v. 287; p. 225.
- Pichl, Anthony J., St. Louis, Mo. Vehicle-locking device. No. 1,365,949; Jan. 18; v. 282; p. 452.
- Pichler, Stephen, Detroit, Mich. Device for testing inaccuracies in cams. No. 1,390,540; Sept. 13; v. 290; p. 288.
- Pick, Alfred, New York, N. Y., assignor to E. N. Breitung, Marquette, Mich. Propeller. No. 1,372,086; Mar. 22; v. 284; p. 611.
- Pick, Paul W., Portland, Ore. Burglar-alarm. No. 1,371,051; Mar. 8; v. 284; p. 291.
- Pick, Paul W., Portland, Ore. Antirattler for window-sashes. No. 1,386,024; Aug. 2; v. 289; p. 13.
- Pickard, Arthur G., and F. Slinger, assignors to Thornton-Pickard Manufacturing Company, Limited, Altrincham, Chester, England. Photographic camera. No. 1,395,869; Nov. 1.
- Pickard, Oren S. (See Gowing, Ernest T., assignor.)
- Pickens, Andrew T., St. Louis, Mo. Pad for attaching valves to tires. No. 1,376,970; May 3; v. 286; p. 113.
- Pickering, Joseph T., New Brighton, England. Disk wheel for automobiles. No. 1,393,729; Oct. 11.
- Pickering, Raymond B., Alameda, Calif. Blowpipe apparatus. No. 1,379,360; May 24; v. 286; p. 761.
- Pickering, Samuel, Bellevue, Wash. Locomotive-drive. No. 1,367,714; Feb. 8; v. 283; p. 222.
- Pickering, Samuel, Bellevue, Wash. Driving mechanism for locomotives. No. 1,386,528; Aug. 2; v. 289; p. 110.
- Pickron, William W., Graceville, Fla. Peanut-shelling machine. No. 1,369,465; Feb. 22; v. 283; p. 648.
- Pickup, Harry, Jr., Scarborough, England. Heating-radiator or the like. No. 1,371,808; Mar. 15; v. 284; p. 502.
- Pickup, William, Pendleton, England. Rotary photograph-printing machine. No. 1,399,987; Dec. 13.
- Pico, Albert. (See White, Fred G., assignor.)
- Pico, Albert P. F., Kansas City, Mo. Autographic register. No. 1,394,785; Oct. 25.
- Piechowicz, Teofil, Vaux Hall, N. J. Cleaning implement. No. 1,368,833; Feb. 15; v. 283; p. 487.
- Plécat, Alphonse J., Alexandria, Egypt. Internal-combustion engine. No. 1,373,261; Mar. 29; v. 284; p. 882.
- Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)
- Pieper, Henri, Liege, Belgium. Air-brake. No. 1,376,573; May 3; v. 286; p. 37.
- Pieper, Henri, Liege, Belgium. Coil-retainer for dynamo-electric machines. No. 1,396,525; Nov. 8.



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- Pieper, Henri, Liege, Belgium. Ignition and combustion of combustibles in internal-combustion engines. No. 1,398,944; Nov. 29.
- Pieper, Oscar H. and A. F. Rochester, N. Y. Hot-air syringe. No. 1,369,935; Mar. 1; v. 284; p. 34.
- Pieper, Oscar H. and A. F. Rochester, N. Y. Unitary dental apparatus. No. 1,376,356; Apr. 26; v. 285; p. 708.
- Pieper, Oscar H. and A. F. Rochester, N. Y. Dental-engine bracket. No. 1,377,432; May 10; v. 286; p. 258.
- Pieper, Oscar H. and A. F. Rochester, N. Y. Dental cuspidor. No. 1,377,433; May 10; v. 286; p. 258.
- Pieper, Oscar H. and A. F. Rochester, N. Y. Hot-air syringe. No. 1,388,526; Aug. 23; v. 289; p. 689.
- Pieper, Oscar H. and A. F. Rochester, N. Y. Ionization-current regulator. No. 1,388,527; Aug. 23; v. 289; p. 689.
- Pierce, Almon J., Brooklyn, N. Y., assignor to Hyatt Roller Bearing Company, Harrison, N. J. Sheet-metal cap for journal-boxes. No. 1,367,427; Feb. 1; v. 283; p. 109.
- Pierce, Andrew J., deceased, Chicago, Ill., K. M. Pierce, executrix. Motor. No. 1,388,371; Aug. 23; v. 289; p. 659.
- Pierce Arrow Motor Car Company, The. (See Ferguson, David, assignor.)
- Pierce-Arrow Motor Car Company, The. (See Sheppy, Charles L., assignor.)
- Pierce, Burt N., Flint, Mich. Carbureter. No. 1,366,831; Jan. 25; v. 282; p. 669.
- Pierce, C. S., Company. (See Parmenter, William A., assignor.)
- Pierce, Clarence A., Lowell, Mass. Bobbin-stripper. No. 1,399,025; Dec. 6.
- Pierce, Clarence D. (See Pierce, George L. and C. D.)
- Pierce, Edward M., Dayton, Ohio. Steering-gear for automobiles. No. 1,369,188; Feb. 22; v. 283; p. 594.
- Pierce, Ernest E., Tarrytown, N. Y. Tank-signal. No. 1,366,832; Jan. 25; v. 282; p. 670.
- Pierce, Frank M., Chicago, Ill. Automatically-adjustable tensioning device. No. 1,399,988; Dec. 13.
- Pierce, Frank M., Chicago, Ill. Horizontal-shuttle wrapping-machine. No. 1,399,989; Dec. 13.
- Pierce Fuse Corporation. (See Candee, B. C., and Pierce, assignors.)
- Pierce, George L. and C. D., Waterbury, Nebr. Motor-supporting stand. No. 1,370,838; Mar. 8; v. 284; p. 251.
- Pierce, George L., Brooklyn, N. Y., assignor to A. G. Spalding & Bros., Jersey City, N. J. Football-shoe. No. 1,376,635; May 3; v. 286; p. 48.
- Pierce, George L., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Athletic shoe. No. 1,392,704; Oct. 4.
- Pierce, George P., Kansas City, Mo. Silo-reinforcing-rod anchor. No. 1,368,653; Feb. 15; v. 283; p. 451.
- Pierce, George W., Davis, assignor to California Almond Growers Exchange, San Francisco, Calif. Apparatus for bleaching almonds. No. 1,382,850; June 28; v. 287; p. 644.
- Pierce, Harold, Paragould, Ark. Fire-igniter. No. 1,367,498; Feb. 1; v. 283; p. 123.
- Pierce, Harry, assignor of one-half to F. A. Briggs, Oakland, Calif. Automatic pneumatic lock. No. 1,397,933; Nov. 22.
- Pierce, Henry N., South Lincoln, assignor, by mesne assignments, to Roderick J. MacGregor, Lincoln, Me. Spool-machine. No. 1,365,540; Jan. 11; v. 282; p. 332.
- Pierce, Henry T., and A. D. McPhee, Worcester, Mass., assignors to General Electric Company. Insulator-connector. No. 1,375,974; Apr. 26; v. 285; p. 635.
- Pierce, Howard C., Harrodsburg, Ky. Refrigerator. No. 1,396,875; Nov. 15.
- Pierce, Howard M., Brooklyn, assignor to A. G. Spalding & Bros., New York, N. Y. Headgear for athletes. No. 1,373,446; Apr. 5; v. 285; p. 13.
- Pierce, Howard W., Butte, Mont. Piston. No. 1,383,849; July 5; v. 288; p. 123.
- Pierce, J. Audley, *et al.* (See Biette, Henry C., assignor.)
- Pierce, James F., Glynnrich, assignor to American Vulcanized Fibre Co., Wilmington, Del. Bead-rolling machine. No. 1,370,557; Mar. 8; v. 284; p. 197.
- Pierce, Jefferson F., Tampa, Fla. Washing-machine. No. 1,397,652; Nov. 22.
- Pierce, Katherine M., executrix. (See Pierce, Andrew J.)
- Pierce, Paul B. (See Ray, W. H., and Pierce.)
- Pierce, Ralph E., Larchmont, N. Y., assignor to American Telephone and Telegraph Company. Electromagnetic device. No. 1,368,288; Feb. 15; v. 283; p. 380.
- Pierce, Raymond T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system for electric furnaces. No. 1,367,089; Feb. 1; v. 283; p. 41.
- Pierce, Raymond T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring instrument. No. 1,395,294; Nov. 1.
- Pierce, Robert A., Los Angeles, Calif. Slide-rule. No. 1,398,914; Nov. 29.
- Pierce, Robert S., and M. R. Kuehn, Milwaukee, Wis. Steering mechanism for vehicles. No. 1,375,859; Apr. 26; v. 285; p. 613.
- Pierce, William L., New York, N. Y. Hem-stitch attachment for sewing-machines. No. 1,401,726; Dec. 27.
- Pierce, William N. (See Candee, B. C., and Pierce.)
- Pierce, William T., North Cambridge, Mass. Picture-hanger. No. 1,372,543; Mar. 22; v. 284; p. 698.
- Pierce Wrapping Machine Company. (See Scherner, J., and Hutchens, assignors.)
- Pierce Wrapping Machine Company. (See Stevens, William C., assignor.) (Reissue.)
- Piercy, Jacob F., Spokane, Wash. Pump for pumping and agitating cyanid and ore solutions. No. 1,376,574; May 3; v. 286; p. 37.
- Pierle, Henry C., assignor, by mesne assignments, to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Change-of-speed mechanism. No. 1,374,109; Apr. 5; v. 285; p. 142.
- Piersen Manufacturing Company, The. (See Cushman, Everett B., assignor.)
- Piersen Manufacturing Company, The. (See Piersen, Edwin H., assignor.)
- Piersen Manufacturing Company, The. (See Schank, Harry E., assignor.)
- Pierson, A. N., *et al.* (See Shepard, Wilbur L., assignor.)
- Pierson, Charles E., Newcastle, Ind. Fishhook. No. 1,381,003; June 7; v. 287; p. 131.
- Pierson, Edwin H., assignor to The Piersen Manufacturing Company, Topeka, Kans., Perforator. No. 1,393,243; Oct. 11.
- Pierson, Edwin W., Newark, N. J., assignor to Intertype Corporation, Brooklyn, N. Y. Line-stop for typographical machines. No. 1,392,792; Oct. 4.
- Pierson, Emil P. (See Fordyce, John R., assignor.)
- Pierson, Hubert T., Hoquiam, Wash. Guard for drink-mixers. No. 1,395,356; Nov. 1.
- Pierson, Irving R., New York, N. Y. Means for metal-strapping and sealing containers. No. 1,400,624; Dec. 20.
- Pierson, Julius A., Winlock, Wash. Logging-carriage. No. 1,384,848; July 19; v. 288; p. 460.
- Pierson Manufacturing Company, The. (See Cushman, Everett B., assignor.)
- Pierson Manufacturing Company, The. (See Schank, Harry E., assignor.)
- Pierson, Paul M. (See Hochstetter, Frederick W., assignor.)
- Pierson, Reginald K., and T. S. Duncan, assignors to Vickers Limited, Westminster, London, England. Alighting or landing gear for aircraft. No. 1,364,518; Jan. 4; v. 282; p. 92.
- Pierson, Reginald K., and T. S. Duncan, assignors to Vickers Limited, Westminster, London, England. Alighting or landing gear for aircraft. No. 1,399,990; Dec. 13.
- Pierson, Robert M., Akron, Ohio. Vaporizing liquid fuels and means therefor. No. 1,385,793; July 26; v. 288; p. 730.
- Pierson, Robert M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-calipers. No. 1,394,347; Oct. 18.
- Pierson, Robert M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. No. 1,399,791; Dec. 13.
- Pierson, William D., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Stop device for wire-drawing or similar machines. No. 1,380,412; June 7; v. 287; p. 17.
- Pierson, William D., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Wire-drawing machine. No. 1,387,469; Aug. 9; v. 289; p. 311.
- Pierson, William H., Philadelphia, Pa. Outlet-plate. No. 1,382,741; June 28; v. 287; p. 624.
- Pieshe, Louis, Chicago, Ill. Rail-joint. No. 1,395,136; Oct. 25.
- Pieters, Julien, Paris, France. Automatic discharging apparatus for continuous vertical ovens. No. 1,381,004; June 7; v. 287; p. 131.
- Pieters, Julien, assignor to Societe du Four Vertical Continu, Paris, France. Method and apparatus for producing a regular progression of materials in vertical ovens. No. 1,389,379; Aug. 30; v. 289; p. 913.
- Pieters, Louise, New York, N. Y. Sanitary bedpans. No. 1,396,382; Nov. 8.
- Pietrowski, John, Chicago, Ill. Ventilation adjustment for shoe-caps. No. 1,394,348; Oct. 18.
- Piette, Olivier, Paris, France, assignor to Societe Anonyme des Fours à Coke Semet-Solvay & Piette. Coking-oven. No. 1,370,481; Mar. 1; v. 284; p. 138.
- Piette, Olivier, Paris, France, assignor to Societe Anonyme des Fours à Coke Semet-Solvay & Peitte. Horizontal coking-oven. No. 1,378,129; May 17; v. 286; p. 444.
- Piette, Olivier, Brussels, Belgium, assignor to The Societe Franco-Belge De Fours à Coke, Paris, France. Heat-recuperator for air or gas. No. 1,378,130; May 17; v. 286; p. 444.
- Piette, Olivier, Paris, France, assignor to Societe Anonyme des Fours à Coke Semet-Solvay & Piette. Horizontal coking oven. No. 1,386,799; Aug. 9; v. 289; p. 237.
- Pifko, Jan, Elizabethport, N. J. Combination furniture. No. 1,392,595; Oct. 4.
- Pigeon, Albert M., Norristown, Pa. Yarn-tension device. No. 1,385,189; July 19; v. 288; p. 531.



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- Pigeon, Albert M., assignor to Wildman Mfg. Co., Norristown, Pa. Yarn severing and clamping device for knitting-machines. No. 1,400,180; Dec. 13.
- Piggins, William S., Detroit, Mich. Concrete construction. No. 1,330,324; May 31; v. 286; p. 1006.
- Piggly Wiggly Corporation. (See Saunders, Clarence, assignor.)
- Piggott, Derwood L. (See Wyss, Russell L., assignor.)
- Pignatola, Camillo. (See Sollima, Carmelo, assignor.)
- Pihl, Karl A., assignor to Saphil Manufacturing Corporation, Chicago, Ill. Surface-grinder. No. 1,366,932; Feb. 1; v. 283; p. 10.
- Pike Manufacturing Company. (See Eaton, Malvern A., assignor.)
- Pike, Robert D., San Francisco, Calif. Apparatus for molding articles from plastic materials. No. 1,394,786; Oct. 25.
- Pike, William A., Pittsfield, Mass. Clip for strengthening cardboard boxes or cartons. No. 1,376,636; May 3; v. 286; p. 48.
- Pilcher, Frank H. (See O'Keefe, John J., assignor.)
- Pilger, William, Center, Colo. Grading-machine. No. 1,397,180; Nov. 15.
- Pilgrim, John F., and W. A. Nimmer, Two Rivers, Wis. Map-case. No. 1,397,327; Nov. 15.
- Pillington Brothers Limited. (See Slocombe Frank E., assignor.)
- Pillington Brothers Limited. (See Waldron, Frederic B., assignor.)
- Pillars, Edward R., and H. C. Leeseberg, Fostoria, Ohio. Self-locking base-fuse. No. 1,383,751; July 5; v. 288; p. 103.
- Pilley, Frank, Kansas City, Mo. Can-up-ending mechanism. No. 1,366,933; Feb. 1; v. 283; p. 11.
- Pilling, Henry, Chorlton-cum-Hardy, England. Exhaust-valve box of internal-combustion engines. No. 1,383,147; June 28; v. 287; p. 701.
- Pilling, Henry, Chorlton-cum-Hardy, England. Piston of uniflow steam-engines. No. 1,385,226; July 19; v. 288; p. 538.
- Pillinger, Gilbert C. (See Sunderland, L., and Pillinger.)
- Pillings, John H., Hamilton, Ohio. Mechanism for automatically operating typewriter-levers and the like. No. 1,399,365; Dec. 6.
- Pilliod, Charles J., assignor to D. Searles, trustee, Toledo, Ohio. Fluid-pressure control. No. 1,382,119; June 21; v. 287; p. 451.
- Pilliod, Charles J., assignor to D. Searles, trustee, Toledo, Ohio. Throttle-valve. No. 1,384,567; July 12; v. 288; p. 321.
- Pilliod, Charles J., assignor to D. Searles, trustee, Toledo, Ohio. Furnace-door-operating mechanism. No. 1,391,690; Sept. 27; v. 290; p. 657.
- Pilliod, Thomas J., Swanton, Ohio. Lock. No. 1,368,048; Feb. 8; v. 283; p. 285.
- Pillmore, William F., Westernville, N. Y. Attachment for automobiles. No. 1,397,879; Nov. 22.
- Pillon, Aimé. (See Ravez, E., and Pillon.)
- Pilnack, Michael, New York, N. Y. Toy pistol. No. 1,398,277; Nov. 29.
- Piltz, John D., Detroit, Mich. Automatic safety window and screen lock. No. 1,389,457; Aug. 30; v. 289; p. 928.
- Pimlott, Peter, Brooklyn, N. Y. Curtain-pole. No. 1,401,727; Dec. 27.
- Pimpell, J. G. (See Nowak, Alexander, assignor.)
- Pinches, Conrad H. (See Rönn, Jens A., assignor.)
- Pinches, Enita R. (See Rönn, Jens A., assignor.)
- Pincus, Adolph, *et al.* (See Newland, R. T., and Merriam, assignors.)
- Pinder, Roland C., Lima, assignor to P. & F. Manufacturing Company, Minster, Ohio. Tone-modulating device for pianos. No. 1,389,160; Aug. 30; v. 289; p. 869.
- Pindstoft, Anders A., Copenhagen, Denmark. Pressure-regulator. No. 1,383,481; July 5; v. 288; p. 46.
- Pine Tree Milling Machine Company. (See Babson, Henry B., assignor.)
- Pine, Wilber J., Kenosha, Wis. Wire fabric. No. 1,372,309; Mar. 22; v. 284; p. 654.
- Pine, Wilber J., Kenosha, Wis. Wire fabric. No. 1,372,310; Mar. 22; v. 284; p. 654.
- Pine, Wilber J., Oshkosh, Wis. Wire fabric. No. 1,376,037; Apr. 26; v. 285; p. 647.
- Pineda, Rafael F., Barquisimeto, Venezuela. Holder for cigars and cigarettes. No. 1,372,544; Mar. 22; v. 284; p. 698.
- Pinell, Walter. (See Lubberger, F., and Pinell.)
- Pines Manufacturing Company. (See Raleigh, James F., assignor.)
- Pinet, William, Vonda, Saskatchewan, Canada. Grain-car door. No. 1,393,962; Oct. 18.
- Pinette, Marcel L., Westbrook, Me. Cutter-guard. No. 1,375,013; Apr. 19; v. 285; p. 419.
- Pinkerton, Andrew, Ben Avon, assignor to American Sheet and Tin Plate Company, Pittsburgh Pa. Making high-silicon sheets and plates. No. 1,396,052; Nov. 8.
- Pinkerton, Edward B., Chicago, Ill. Folding box. No. 1,383,148; June 28; v. 287; p. 701.
- Pinkney, Bryan D., Newport, Ky. Cover for mixers. No. 1,375,416; Apr. 19; v. 285; p. 497.
- Pinkney, Bryan D., Newport, Ky. Dough-mixer. No. 1,392,446; Oct. 4.
- Pinkus, Flora W. (See Werner, Lester A., assignor.)
- Piolunek, Stanley, New York, N. Y. Fire-box valve. No. 1,369,466; Feb. 22; v. 283; p. 648.
- Pioneer Bindery and Printing Company. (See Howe, Mortimer A., assignor.)
- Pioneer Box Company. (See Caylor, Jefferson, assignor.)
- Pioneer Engineering Corporation. (See Conkling, de Witt C., assignor.)
- Plotter, Otto, Harbor Beach, Mich. Bedpost-hanger. No. 1,385,794; July 26; v. 288; p. 730.
- Piper, Joseph W., Lowell, Mass. Boiler for steam and hot-water heating. No. 1,398,794; Nov. 29.
- Pippin, John W., assignor to Pippin Manufacturing Company, Oklahoma, Okla. Underreamer. No. 1,371,978; Mar. 15; v. 284; p. 534.
- Pippin Manufacturing Company. (See Pippin, John W., assignor.)
- Pire, Frank, Marinette, Wis. Reversible plow. No. 1,400,768; Dec. 20.
- Pirdun, Lewis, and J. P. Burke, Sand Springs, Okla. Driving and controlling the operation of reels. No. 1,388,885; Aug. 30; v. 289; p. 814.
- Pirella & Co. (See Bruni, Giuseppe, assignor.)
- Piron, Emile, New York, N. Y. Oven-heating system. No. 1,384,149; July 12; v. 288; p. 234.
- Piron, Emile, New York, N. Y. Recovering ammonium chlorid. No. 1,386,278; Aug. 2; v. 289; p. 63.
- Pirwitz, Friedrich A. G. (See Wollensak, A., and Perwitz.)
- Pirwitz, Paul, Marshfield, Wis. Attachment for cantaliver-springs. No. 1,391,851; Sept. 27; v. 290; p. 690.
- Pisceek, Joseph Y., Gallup, N. Mex. Railway-track construction. No. 1,381,499; June 14; v. 287; p. 274.
- Pisceek, Joseph Y., assignor of one-half to J. Gullas, Gallup, N. Mex. Condensing apparatus. No. 1,394,502; Oct. 18.
- Piskuran, William, Elyria, Ohio. Shoemaker's jack. No. 1,383,421; July 5; v. 288; p. 34.
- Piston Research Corporation. (See Bramberry, Harry M., assignor.)
- Pistor, Gustav, Frankfurt-on-the-Main, A. Beielstein and A. Beck, Bitterfeld, assignors to the firm of Chemische Fabrik Griesheim-Elektron, Frankfurt-on-the-Main, Germany. Producing ferro-silico-magnesium alloy. No. 1,376,113; Apr. 26; v. 285; p. 662.
- Piterman, Joe. (See Bloom, H., Gerber, and Piterman.)
- Pitkin, George P., Bergenfield, N. J. Radiator-thermometer. No. 1,381,005; June 7; v. 287; p. 131.
- Pitkin, James M., Los Angeles, Calif. Journal-bearing. No. 1,366,132; Jan. 18; v. 282; p. 487.
- Pitlick, Carl W., Oahe, S. D. Hog-restraining device. No. 1,381,006; June 7; v. 287; p. 131.
- Pitlick, Carl W., Oahe, S. D. Self-cleaning currycomb. No. 1,381,007; June 7; v. 287; p. 131.
- Pitman, Henry L., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,369,180; Feb. 22; v. 283; p. 594.
- Pitman, Henry L., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,370,360; Mar. 1; v. 284; p. 115.
- Pitman, Henry L., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,393,244; Oct. 11.
- Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,386,653; Aug. 9; v. 289; p. 207.
- Pitney, Arthur H., Wilmette, Ill., assignor, by mesne assignments, to Pitney-Bowes Postage Meter Company, Stamford, Conn. Postage-meter and mail-marking machine. No. 1,370,668; Mar. 8; v. 284; p. 219.
- Pitney, Arthur H., Wilmette, Ill., assignor to Pitney-Bowes Export Corporation, Stamford, Conn. Inking mechanism. No. 1,377,853; May 10; v. 286; p. 339.
- Pitney, Arthur H., assignor to Pitney-Bowes Postage Meter Company, Stamford, Conn. Locking mechanism for numeral wheels, &c. No. 1,382,224; June 21; v. 287; p. 470.
- Pitney-Bowes Export Corporation. (See Ogden, Jacob W., assignor.)
- Pitney-Bowes Postage Meter Company. (See Pitney, Arthur H., assignor.)
- Piton, Guido, Rochester, N. Y. Sounding-toy wheel. No. 1,384,334; July 12; v. 288; p. 272.
- Piton, Guido, Rochester, N. Y. Moving and sounding toy. No. 1,392,216; Sept. 27; v. 290; p. 763.
- Pitot, Léon A. (See Rousseau, F. P. A., and Pitot.)
- Pitot, Eugene, New York, N. Y., assignor to American Safety Device Company. Scaffold and hoisting mechanism therefor. No. 1,366,487; Jan. 25; v. 282; p. 601.
- Pitsch, Julius A., Los Angeles, Calif. Adjustable friction-wrench. No. 1,382,851; June 28; v. 287; p. 645.
- Pitt, William A., Montreal, Quebec, Canada. Train-lighting apparatus. No. 1,374,523; Apr. 12; v. 285; p. 263.
- Pittenger, Jacob A., Milburn, N. J. Sash-retainer. No. 1,398,795; Nov. 29.
- Pittenger, Paul S., assignor to H. K. Mulford Company, Philadelphia, Pa. Hypodermic syringe. No. 1,373,669; Apr. 5; v. 285; p. 56.



## Alphabetical list of patentees—Continued.

- Pittevil, Alois G. C., London, England. Welding of different metals to form composite ingots. No. 1,374,110; Apr. 5; v. 285; p. 142.
- Pittman, Carl L. (See Humphrey, D. L., and Pittman.)
- Pittman, Carl L., assignor to Pittman & Company, De Leon, Tex. Safety attachment for railway-car trucks. No. 1,393,313; Oct. 11.
- Pittman & Company. (See Pittman, Carl L., assignor.)
- Pittman, Ernest W., Flushing, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Method and apparatus for finishing gunstocks. No. 1,382,852; June 28; v. 287; p. 645.
- Pittman, Mary E., Washington, D. C. Article of manufacture for preventing accumulation of moisture upon glass surfaces. No. 1,386,362; Aug. 2; v. 289; p. 79.
- Pittman, Reinhart W., New York, N. Y. Tripod for cameras. No. 1,386,025; Aug. 2; v. 289; p. 13.
- Pittman, Reinhart W., New York, N. Y. Motion-picture-film-feeding device. No. 1,388,886; Aug. 30; v. 289; p. 814.
- Pittman, Reinhart W., New York, N. Y. Shutter for motion-picture apparatus. No. 1,398,242; Nov. 29.
- Pittman, Reinhart W., assignor to Alston Saw & Steel Company, New York, N. Y. Apparatus for refinishing or retouching the teeth of saw-blades. No. 1,378,611; May 17; v. 286; p. 536.
- Pittoni, Louis E. (See Sisbower, G. F., and Pittoni.)
- Pitts, Claude, Painted Post, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Belt-drive. No. 1,383,850; July 5; v. 288; p. 123.
- Pitts, George B., trustee. (See Parkhurst, Layton M., assignor.)
- Pitts, William L., Marshall, Tex. Shipping-basket. No. 1,389,897; Sept. 6; v. 290; p. 69.
- Pittsburgh Engineering Works, The. (See Moore, William E., assignor.)
- Pittsburgh Gage & Supply Company. (See Wappat, Fred W., assignor.)
- Pittsburgh Meter Company. (See Chrisman, Horace, assignor.)
- Pittsburgh Plate Glass Company. (See Bechtel, John A., assignor.)
- Pittsburgh Plate Glass Company. (See Brown, Christopher, assignor.)
- Pittsburgh Plate Glass Company. (See Fulton, Clarence E., assignor.)
- Pittsburgh Plate Glass Company. (See Golightly, William J., assignor.)
- Pittsburgh Plate Glass Company. (See Hitchcock, Halbert K., assignor.)
- Pittsburgh Plate Glass Company. (See Hitner, Harry F., assignor.)
- Pittsburgh Plate Glass Company. (See Reynolds, Harry A., assignor.)
- Pittsburgh Plate Glass Company. (See Showers, Lee, assignor.)
- Pittsburgh Plate Glass Company. (See Slinghuff, Harry G., assignor.)
- Pittsburgh Plate Glass Company. (See Soderberg, Jacob, assignor.)
- Pittsburgh Plate Glass Company. (See Taylor, William H., assignor.)
- Pittsburgh Plate Glass Company. (See Wilson, Robert E., assignor.)
- Pittsburgh Stamp Company. (See Nagy, John, assignor.)
- Pittsburgh Steel Company. (See Bull, George E., assignor.)
- Pittsburgh Steel Company. (See Johnson, August G., assignor.)
- Pittsburgh Steel Foundry Company. (See Allison, John, assignor.)
- Pittsburgh Taximeter Company. (See Eisenschmid, William, assignor.)
- Pittsburgh Train Control Company. (See Gray, G. B., and Williamson, assignors.)
- Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)
- Pittsburgh Wire Rope Company. (See Anderson, Albin E., assignor.)
- Pivot Button Company. (See Rovelli, Angelo C., assignor.)
- Pixley, Edward C., Sullivan, Ohio. Shade-bracket. No. 1,395,870; Nov. 1.
- Place, Charles H., New Rochelle, assignor to New York Mackintosh Clothing Co., New York, N. Y. Raincoat. No. 1,368,835; Feb. 15; v. 283; p. 487.
- Place, Olney U. S. Army. Apparatus for training troops in the pointing of guns. No. 1,376,357; Apr. 26; v. 285; p. 709.
- Plains Iron Works Company, The. (See Curtis, Homer F., assignor.)
- Plaisted, Harold M., assignor of forty-nine one-hundredths to M. F. Williams, St. Louis, Mo. Traction-wheel. No. 1,368,049; Feb. 8; v. 283; p. 285.
- Plaisted, Harold M., assignor of forty-nine one-hundredths to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Journal-bearing support. No. 1,368,050; Feb. 8; v. 283; p. 285.
- Plaisted, Harold M., assignor of forty-nine one-hundredths to M. F. Williams, St. Louis, Mo. Air-skimmer for belt-pulleys. No. 1,375,173; Apr. 19; v. 285; p. 450.
- Planchenault, Alexander G., Coytesville, N. J., assignor to National Clasp Co., Inc., New York, N. Y. Clasp for garters, wrist-bracelets, &c. (Reissue.) No. 15,020; Jan. 4; v. 282; p. 157.
- Plane, Frank W., London, England. Receptacle for varnish, paint, and the like. No. 1,396,053; Nov. 8.
- Plank, William C., San Jose, Calif. Motion-picture machine. No. 1,366,488; Jan. 25; v. 282; p. 601.
- Planographic Equipment Company. (See Cooper, Ellis W., assignor.)
- Plant, Ray C. (See Barnard, Ray D., assignor.)
- Plasterer, Purl C., Dayton, Ohio. Making bifocal lenses. No. 1,373,635; Apr. 5; v. 285; p. 49.
- Plastoid Products Incorporated. (See Glaze, Herbert L., assignor.)
- Plastoid Products. (See Routt, O. L., and McConnell, assignors.)
- Plater, Albert B. (See Eskelin, Jacob, assignor.)
- Plater, Le Roy C. (See Stout, J. H., and Plater.)
- Platero, Augusto N., Montevideo, Uruguay. Collapsible holder for sharp-edged blades or instruments. No. 1,373,758; Apr. 5; v. 285; p. 73.
- Platt, Clarence D., Bridgeport, Conn. Quick-break switch. No. 1,365,007; Jan. 11; v. 282; p. 230.
- Platt, Clarence D., Bridgeport, Conn. Meter-testing switch. No. 1,365,725; Jan. 18; v. 282; p. 407.
- Platt, Clarence D., Bridgeport, Conn. Electric-cut-out box. No. 1,396,876; Nov. 15.
- Platt, John. (See Heina, William M., assignor.) (Re-issue.)
- Platt, Leo, New York, N. Y. Camisole and making same. No. 1,382,742; June 28; v. 287; p. 624.
- Platto, Frederick, Brewerton, N. Y. Motor-loading machine. No. 1,379,039; May 24; v. 286; p. 690.
- Platts, George L., Detroit, Mich. Tray-chair. No. 1,383,020; June 28; v. 287; p. 677.
- Platz, George A., assignor to Horlick's Malted Milk Company, Racine, Wis. Moisture-proof closure. No. 1,364,640; Jan. 4; v. 282; p. 114.
- Plauson, Hermann, Hamburg, Germany, assignor to D. R. Rotman, New York, N. Y. Manufacture of dispersoids, colloid powder and masses therefrom. No. 1,392,849; Oct. 4.
- Plauson, Hermann, Hamburg, Germany, assignor to D. R. Rotman, New York, N. Y. Manufacture of articles from proteins. No. 1,395,729; Nov. 1.
- Plauson, Hermann, Hamburg, Germany, assignor to D. R. Rotman, New York, N. Y. Manufacture of artificial wood or other plastic bodies. No. 1,397,144; Nov. 15.
- Pleaue, Chester W., Sands, Mich. Trapper's compound tool. No. 1,398,342; Nov. 29.
- Pledger Appliance Co. (See Pledger, Dennis J., assignor.)
- Pledger, Dennis J., assignor to Pledger Appliance Co., Inc., New Orleans, La. Auxiliary-air valve and heater. No. 1,384,211; July 12; v. 288; p. 246.
- Plein, Jacob, Plainview, Minn. Loading device. No. 1,391,852; Sept. 27; v. 290; p. 690.
- Pleister, Henry W. (See Newhall, H. B., and Pleister.)
- Pleister, Henry W., deceased, Westfield, N. J., assignor to H. B. Newhall, Jr., executor. Cable-clamp and bridle-ring. No. 1,365,609; Jan. 11; v. 282; p. 346.
- Pleister, Henry W., deceased, Westfield, N. J., assignor to H. B. Newhall, Jr., executor. Cable-clamp and bridle-ring. No. 1,365,610; Jan. 11; v. 282; p. 346.
- Pleister, Henry W., deceased, Westfield, N. J., assignor to H. B. Newhall, Jr., executor. Cable-clamp and bridle-ring. No. 1,365,611; Jan. 11; v. 282; p. 346.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Jr., executor. Conduit or cable clamp and bridle-ring. No. 1,365,618; Jan. 11; v. 282; p. 347.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Jr., executor. Conduit or cable clamp and bridle-ring. No. 1,365,621; Jan. 11; v. 282; p. 348.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Jr., executor. Conduit or cable clamp and bridle-ring. No. 1,365,622; Jan. 11; v. 282; p. 348.
- Pleister, Henry W., Westfield, assignor to H. B. Newhall, Plainfield, N. J., executor. Conduit or cable clamp and bridle-ring. No. 1,365,627; Jan. 11; v. 282; p. 349.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Jr., executor. Conduit or cable clamp and bridle-ring. No. 1,365,631; Jan. 11; v. 282; p. 349.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Jr., executor. Conduit or cable clamp and bridle-ring. No. 1,365,632; Jan. 11; v. 282; p. 350.
- Pleister, Henry W., Westfield, N. J., assignor to H. W. Newhall, Jr., executor. Spring toggle. No. 1,374,950; Apr. 19; v. 285; p. 407.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Jr., executor of H. B. Newhall, deceased. Conduit or cable clamp and bridle-ring. No. 1,381,228; June 14; v. 287; p. 225.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Plainfield, N. J., executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,229; June 14; v. 287; p. 22.
- Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, Plainfield, N. J., executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,230; June 14; v. 287; p. 226.



Pleister, Henry W., Westfield, assignor to H. B. Newhall, Plainfield, N. J., executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,391,231; June 14; v. 287; p. 226.

Pleister, Henry W., Westfield, assignor to H. B. Newhall, Plainfield, N. J., executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,232; June 14; v. 287; p. 226.

Pleister, Henry W., Westfield, assignor to H. B. Newhall, Plainfield, N. J., executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,233; June 14; v. 287; p. 226.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,234; June 14; v. 287; p. 226.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,235; June 14; v. 287; p. 226.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,236; June 14; v. 287; p. 226.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,237; June 14; v. 287; p. 227.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,238; June 14; v. 287; p. 227.

Pleister, Henry W., Westfield, N. J., assignor to H. B. Newhall, executor of H. B. Newhall, Sr., deceased. Conduit or cable clamp and bridle-ring. No. 1,381,239; June 14; v. 287; p. 227.

Pleister, Henry W., Westfield, and J. Karitzky, Garwood, N. J., assignors to H. B. Newhall, Jr., executor. Cable-clamp and bridle-ring. No. 1,365,612; Jan. 11; v. 282; p. 346.

Pleister, Henry W., Westfield, and J. Karitzky, Garwood, N. J., assignors to H. B. Newhall, Jr., executor. Conduit or cable clamp and bridle-ring. No. 1,365,619; Jan. 11; v. 282; p. 347.

Pleister, Henry W., Westfield, and J. Karitzky, Garwood, N. J., assignors to H. B. Newhall, executor. Cable-clamp and bridle-ring. No. 1,365,626; Jan. 11; v. 282; p. 348.

Pleister, Henry W., Westfield, and J. Karitzky, Garwood, N. J., assignors to H. B. Newhall, Jr., executor of H. B. Newhall, deceased. Cable-clamp and bridle-ring. No. 1,365,660; Jan. 11; v. 282; p. 239.

Pleister, Henry W., Westfield, and J. Karitzky, Garwood, N. J., assignors to H. B. Newhall, Jr., executor of H. B. Newhall, deceased. Cable-clamp and bridle-ring. No. 1,381,227; June 14; v. 287; p. 225.

Pletcher, Lyle J., Berwyn, Ill., assignor to Figaro Chemical Co., Dallas, Tex. Covering for meats. No. 1,394,349; Oct. 18.

Pletscher, Otto, Albisrieden, Switzerland. Electric machine. No. 1,393,395; Oct. 11.

Plettner, Otto L., and W. H. Lowe, assignors to The Continental Tractor Company, Continental, Ohio. Tractor-plow. No. 1,389,196; May 17; v. 286; p. 456.

Ploch, Alex., assignor of seven-eighths to T. Ploch, Carpenter, Tex. Boll-weevil catcher. No. 1,383,422; July 5; v. 288; p. 34.

Ploch, T. (See Ploch, Alex., assignor.)

Ploen, Julius, Green Island, Iowa. Harrow-trailing seeder. No. 1,396,877; Nov. 15.

Plott, George R., Hillsboro, N. C., Bobbin-support. No. 1,387,943; Aug. 16; v. 289; p. 517.

Plüderi, Eraldo, Turro Milanese, assignor to E. Schieroni and R. Frigerio, Milan, Italy. Cinematographic machine. No. 1,395,137; Oct. 25.

Plum, S. Haines 2d. (See Morrison, Lewis E., assignor.)

Plumb, Edwin B., Clawson, Mich. Bedclothes-holding device. No. 1,373,670; Apr. 5; v. 285; p. 56.

Plumer, Charles H., Newark, N. J. Cigarette-holder. No. 1,389,842; Sept. 6; v. 290; p. 57.

Plumer, James T., Detroit, Mich. Sprayer. No. 1,390,310; Sept. 13; v. 290; p. 242.

Plumley, Eugene K. (See Fisher, Frederick E., assignor.)

Plummer, George C., Chicago, assignor to T. J. Hruby, Cicero, Ill. Lug-equipped traction-wheel. No. 1,394,685; Oct. 25.

Plummer, H. H. (See Cornish, Sidney E., assignor.)

Plummer, Henry G., Oakland, Calif. Pipe-joint. No. 1,397,145; Nov. 15.

Plummer, Horace, Lawrence township, Marion county, Ind. Engraving-block. No. 1,397,293; Nov. 15.

Plummer, Oscar D., Altoona, Pa. Lacquered reflector and the method of lacquering reflectors. No. 1,369,467; Feb. 22; v. 283; p. 648.

Plush, Earl V., Meade, Kans. Internal-combustion engine. No. 1,395,138; Oct. 25.

Plym, Francis J., Niles, Mich. Interlocking molding for pivoted or swinging frames. No. 1,364,312; Jan. 4; v. 282; p. 52.

Plymouth Gypsum Co., The. (See Norton, John M., assignor.)

Plymouth Phonograph Company. (See Bruhy, Alexander F., assignor.)

Plymouth Phonograph Parts Co. (See Trotter, George C., assignor.)

Plymouth Rubber Company. (See Sadler, Henry A., assignor.)

Pneumatic Acetylene Generator Corporation, The. (See Goodyear, Nelson, assignor.)

Pneumatic Cushion Company. (See Gruss, Lucien R., assignor.)

Pneumatic Process Flotation Company. (See Callow, John M., assignor.)

Pneumatic Process Flotation Company. (See Gahl, Rudolf, assignor.)

Pneumatic Process Flotation Company. (See Towne, R. S., and Flinn, assignors.)

Pneumatic Scale Corporation. (See Robinson, George A., assignor.)

Pneumatic Tube Steam Splicer Company, The. (See Fetter, Edward, assignor.)

Pneumercator Company. (See Parks, Harry S., assignor.)

Poage, Henry, Millpoint, W. Va. Churn-operating device. No. 1,382,316; June 21; v. 287; p. 488.

Poague, John H. (See McKinney, Francis B., assignor.)

Pobe, Charles E. (See First, Alexander, assignor.)

Poberejsky, Jacques. (See Malhomme, Maurice R., assignor.)

Podawiltz, Arthur J. (See Harrington, G. F., and Podawiltz.)

Podell, Morris, New York, N. Y. Renewable fuse. No. 1,396,460; Nov. 8.

Podhajny, Dmytro, Algoma, W. Va. Beehive. No. 1,369,190; Feb. 22; v. 283; p. 594.

Podolsky, Henry, San Francisco, Calif. Stove. No. 1,370,150; Mar. 1; v. 284; p. 74.

Podsiad, Frank, Wyandotte, Mich. Barrel-assembling machine. No. 1,398,737; Nov. 29.

Poehlmann, Andrew T., Catonsville, Md. Address device. No. 1,376,900; May 3; v. 286; p. 99.

Poetsch, Max, Clifton, N. J. Apparatus for bleaching, dyeing, &c. No. 1,383,021; June 28; v. 287; p. 677.

Pohl, Charles, assignor to J. O. King, Los Angeles, Calif. Fuel-feed system. No. 1,381,331; June 14; v. 287; p. 243.

Pohl, Charles, assignor to J. O. King, Los Angeles, Calif. Fuel-feeding system. No. 1,397,780; Nov. 22.

Pohl, John, Bloomfield, N. J. Grapple. No. 1,366,746; Jan. 25; v. 282; p. 652.

Pohl, Wilhelm, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Worm-gear. No. 1,385,641; July 26; v. 288; p. 699.

Pohle, Frederick W., Jr., assignor to Steul and Thuman Company, Buffalo, N. Y. Leg-fastening for furniture. No. 1,389,008; Aug. 30; v. 289; p. 839.

Pohle, Walter B., Lynn, assignor of one-half to A. C. Page, Wollaston, Mass. Spark-plug. No. 1,391,691; Sept. 27; v. 290; p. 657.

Pohlmann, Herman H., St. Louis, Mo. Mask. No. 1,387,307; Aug. 9; v. 289; p. 338.

Poignant, Carl E., assignor of one-half to C. G. Poignant, Matsqui, British Columbia, Canada. Poultry-nest. No. 1,399,872; Dec. 13.

Poignant, Carl G. (See Poignant, Carl E., assignor.)

Poindexter and Company. (See Poindexter, Robert W., assignor.)

Poindexter, Robert W., Los Angeles, Calif., assignor to Poindexter and Company. Producing hydrocyanic acid. No. 1,387,170; Aug. 9; v. 289; p. 311.

Poirier, Arthur F., and H. E. Allen, Wilton, Me. Belt-shifter. No. 1,364,409; Jan. 4; v. 282; p. 70.

Pokorny, James T., Paris, assignor of one-half to A. T. Edgington, Port Arthur, Tex. Brick-kiln construction. No. 1,386,530; Aug. 2; v. 289; p. 110.

Polan, Joseph C. (See Nelson, L. C., and Polan.)

Polansky, Emil L., Munden, Kans. Attachment for tractor-wheels. No. 1,389,269; Aug. 30; v. 289; p. 891.

Pole, Joseph C., Vienna, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc. Apparatus for treating liquids by ultra-violet rays. No. 1,367,090; Feb. 1; v. 283; p. 41.

Police Safety Automatic Automobile Locking Company. (See Haggett, Frank, assignor.)

Polinkowsky, Lipa, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone-exchange system. No. 1,365,269; Jan. 11; v. 282; p. 280.

Polinkowsky, Lipa, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,365,270; Jan. 11; v. 282; p. 280.

Polinkowsky, Lipa, Hyde Park, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone-exchange system. No. 1,372,448; Mar. 22; v. 284; p. 680.

Polinkowsky, Lipa, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,373,447; Apr. 5; v. 285; p. 13.

Polinkowsky, Lipa, Hyde Park, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,381,431; June 14; v. 287; p. 262.



## Alphabetical list of patentees—Continued.

- Polinkowsky, Lipa, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,386,728; Aug. 9; v. 289; p. 223.
- Polinkowsky, Lipa, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,387,171; Aug. 9; v. 289; p. 312.
- Polinkowsky, Lipa, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y. Indicating system. No. 1,388,887; Aug. 30; v. 289; p. 814.
- Polinkowsky, Lipa, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,395,595; Nov. 1.
- Polinkowsky, Lipa, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Semi-automatic telephone-exchange system. No. 1,400,181; Dec. 13.
- Polk, William R., Atlanta, Ga. Battery-grid. No. 1,381,008; June 7; v. 287; p. 132.
- Poll, George, New York, N. Y. Cabinet. No. 1,383,022; June 28; v. 287; p. 677.
- Pollak, Abraham, assignor to S. Kanner, New York, N. Y. Lead-pencil. No. 1,391,273; Sept. 20; v. 290; p. 500.
- Pollak, Fritz, Vienna, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making light-colored, air and light proof condensation products from phenol and formaldehyde. No. 1,369,352; Feb. 22; v. 283; p. 626.
- Pollak Steel Company, The. (See Paque, Edward J., assignor.)
- Pollard, Charles E., Champaign, Ill. Osteopathic instrument. No. 1,398,150; Nov. 22.
- Pollard, Jean, Killiney, Ireland. Detachable button. No. 1,372,449; Mar. 22; v. 284; p. 680.
- Pollard, John H., New York, N. Y. Fastening device. No. 1,366,212; Jan. 18; v. 282; p. 502.
- Pollatsek, Adolf, Brooklyn, N. Y. Labeling-machine. No. 1,384,711; July 12; v. 288; p. 352.
- Pollock, Florence H., Los Angeles, Calif. Garment-pattern. No. 1,372,189; Mar. 22; v. 284; p. 630.
- Pollock, Grant E., Clinton, Ill. Coaster-sled. No. 1,366,833; Jan. 25; v. 282; p. 670.
- Pollock, John W., Sawtelle, Calif. Concentrator. No. 1,379,417; May 24; v. 286; p. 761.
- Pollock, Robert T., Cambridge, Mass. Milling-cutter. No. 1,385,750; July 26; v. 288; p. 721.
- Pollock, William B., Company, The. (See Reilly, Edgar J., assignor.)
- Polnoroff, Morris, assignor of one-half to Morris Abel, Philadelphia, Pa. Radiator. No. 1,400,978; Dec. 20.
- Polonus, Thomas, Youngstown, Ohio. Necktie. No. 1,382,382; June 21; v. 287; p. 501.
- Polytes, Nicholas E. (See Rogers, G. and Polytes.)
- Pombo, Jesús M., New York, N. Y. Door-operating mechanism. No. 1,383,851; July 5; v. 288; p. 123.
- Poméon, Antoine L. (See Poméon, Pierre, J. and A. L.)
- Poméon, Joseph. (See Poméon, Pierre, J. and A. L.)
- Poméon, Pierre, J. and A. L., St. Chamond, France. Manufacture of pasteboard cases and means therefor. No. 1,388,888; Aug. 30; v. 289; p. 814.
- Pomerenke, Rudolph, New Britain, Conn. Clamp and dog combination. No. 1,370,994; Mar. 8; v. 284; p. 281.
- Poméron, Pierre, J. and A. L., St. Chamond, France. Molding-press. No. 1,388,889; Aug. 30; v. 289; p. 814.
- Pomeroy, Edward S., assignor to Smith & Wesson, Springfield, Mass. Automatic pistol. No. 1,382,317; June 21; v. 287; p. 488.
- Pomeroy, Percy W., assignor to The Willys-Overland Company, Toledo, Ohio. Vehicle-body. No. 1,376,460; May 3; v. 286; p. 16.
- Pomfret, John. (See Airey, W. E., and Pomfret.)
- Pomije, Henry D., Olivia, Minn. Taper-holder. No. 1,367,921; Feb. 8; v. 283; p. 261.
- Pomilio, Carlo, Rome, Italy. Monocycle-vehicle. No. 1,374,761; Apr. 12; v. 285; p. 308.
- Pomorski, Ignacy, Erie, Pa. Manufacturing cardboard. No. 1,367,279; Feb. 1; v. 283; p. 79.
- Pond, Edmund M., Rutland, Vt. Medicated tampon. No. 1,395,295; Nov. 1.
- Pond, Samuel N. (See Nowak, Frank, assignor.)
- Ponitz, Charles C., et al. (See Bridge, John A., assignor.)
- Ponnay, Nathaniel D., Los Angeles, Calif. Printing-press gage. No. 1,367,091; Feb. 1; v. 283; p. 42.
- Ponsonby, Amos A., Scranton, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,379,693; May 31; v. 286; p. 888.
- Pontin, Elmer. (See Mladinich, F., and de Tartas, assignors.)
- Pontin, Elmer, et al. (See Mladinich, Frank, assignor.)
- Ponton, Henri R., Paris, France. Photographic shutter. No. 1,391,790; Sept. 27; v. 290; p. 676.
- Ponzio, Salvatore, Syracuse, N. Y. Unsinkable boat. No. 1,392,217; Sept. 27; v. 290; p. 763.
- Pool, Alice L. (See Pool, James C. P., assignor.)
- Pool, Charles R. P., Dallas, Tex. Lift for gin-breasts. No. 1,380,677; June 7; v. 287; p. 67.
- Pool, James C. P., assignor of one-third to A. L. Pool, Brooklyn, N. Y. Method and apparatus for deriving mechanical power from tides and waves. No. 1,377,163; May 3; v. 286; p. 149.
- Poole, Arthur F., Kenilworth, Ill. Aeroplane-speed indicator. No. 1,387,555; Aug. 16; v. 289; p. 440.
- Poole, Arthur F., Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Calculating-machine. No. 1,374,762; Apr. 12; v. 285; p. 308.
- Poole, Arthur F., Kenilworth, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Lock for totalizers. No. 1,391,142; Sept. 20; v. 290; p. 473.
- Poole, Arthur F., Kenilworth, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Calculating-machine. No. 1,394,641; Oct. 25.
- Poole Bros. (See McGurn, Matthew S., assignor.)
- Poole, Charles A., Jersey City, N. J. Tilttable post. No. 1,367,830; Feb. 8; v. 283; p. 245.
- Poole, Clifford O., Cobden, Ill. Tire-nut-turning device. No. 1,377,028; May 3; v. 286; p. 124.
- Poole, Clifford O., Cobden, Ill. Wrench. No. 1,378,719; May 17; v. 286; p. 557.
- Poole, Ephraim B., Cordova, Ala. Evaporating-pan and skimmer. No. 1,385,393; July 26; v. 288; p. 647.
- Poole, Homer H., assignor of one-half to S. E. Gloyd, Parsons, Kans. Convertible vehicle-body. No. 1,367,669; Feb. 8; v. 283; p. 213.
- Poole, Homer J. (See Couch, Stephen E., assignor.)
- Poole, John H., Whitman, assignor of sixteen thirty-seconds to Masterson Brothers, eight thirty-seconds to F. Drew, four thirty-seconds to F. L. Price, two thirty-seconds to J. G. Wilde, Brockton, and one thirty-second to J. W. Barlow, Quincy, Mass. Last. No. 1,383,149; June 28; v. 287; p. 702.
- Poole, Robert M., Mount Gambier, South Australia, and H. F. Davis, Brighton, Victoria, Australia. Washing or scouring wool. No. 1,377,790; May 10; v. 286; p. 326.
- Poor, Fred A., assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,386,800; Aug. 9; v. 289; p. 238.
- Poor, Gilbert H., Milwaukee, Wis. Safety liquid-dispensing apparatus. No. 1,376,226; Apr. 26; v. 285; p. 683.
- Poore, Philip, London, England. Distillation of wood, woody fiber, and similar carbonaceous substances. No. 1,397,181; Nov. 15.
- Pope, Charles E., Springfield, Mass., assignor to Great Northern Paper Company, Millinocket, Me. Paper-making. No. 1,369,124; Feb. 22; v. 283; p. 582.
- Pope, Edward J., St. Joseph, Mich., assignor to Mullen & Pope Screen Company. Revolving screen. No. 1,399,653; Dec. 6.
- Pope, Harry M., New York, N. Y., and F. A. Johnson, Dunellen, N. J., assignors, by mesne assignments, to H. M. Pope, New York, N. Y., F. A. Johnson, New Haven, Conn., and J. W. Atkins, Dobbs Ferry, N. Y., executrix of G. J. Atkins, deceased. Rifling-machine. No. 1,368,051; Feb. 8; v. 283; p. 285.
- Pope, John W., Memphis, Tenn. Time-marking device for tickets and transfers. No. 1,370,482; Mar. 1; v. 284; p. 138.
- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail-distributer. No. 1,381,240; June 14; v. 287; p. 227.
- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,386,654; Aug. 9; v. 289; p. 207.
- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,388,120; Aug. 16; v. 289; p. 551.
- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-gauging and lip-cutting machine. No. 1,396,143; Nov. 8.
- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. No. 1,398,343; Nov. 29.
- Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. No. 1,400,695; Dec. 20.
- Pope, Leslie S., Raymond, Wash. Gin-cleaner. No. 1,390,633; Sept. 13; v. 290; p. 309.
- Pope, William L., Huntersville, N. C. Tractor. No. 1,397,015; Nov. 15.
- Popelka, Mary, Breed, Wis. Cream-can. No. 1,372,827; Mar. 29; v. 284; p. 795.
- Popham, Herbert G., Toronto, Ontario, Canada. Portable card-plate-printing machine. No. 1,375,800; Apr. 26; v. 285; p. 601.
- Popin, Ziva, New York, N. Y. Hair-treating device. No. 1,376,358; Apr. 26; v. 285; p. 709.
- Popkess, Michael A., Kansas City, Mo., assignor to Bituminized Road Company. Conveying and mixing machine. No. 1,370,764; Mar. 8; v. 284; p. 237.
- Popkess, Michael A., Kansas City, Mo., assignor to Bituminized Road Company. Apparatus for producing paving materials. No. 1,373,205; Mar. 29; v. 284; p. 871.
- Popowich, John, Passaic, N. J. Vehicle-signal. No. 1,379,211; May 24; v. 286; p. 722.
- Popp, Fred W., Vallejo, Calif. Closet-cistern. No. 1,364,309; Jan. 4; v. 282; p. 51.
- Popp, Harry E., East Cleveland, Ohio. Valve. No. 1,383,482; July 5; v. 288; p. 47.



- Poppenhusen, Herman A., Hammond, assignor to Green Engineering Company, East Chicago, Ind. Baffle-curtain for ash-tanks. No. 1,380,413; June 7; v. 287; p. 17.
- Poppenhusen, Herman A., Hammond, Ind., and A. P. Strong, Chicago, Ill., assignors to Green Engineering Company, East Chicago, Ind. Nozzle and nozzle-fitting. No. 1,384,086; July 12; v. 288; p. 220.
- Poppenhusen, Herman A., Hammond, Ind., and A. P. Strong, Chicago, Ill., assignors to Green Engineering Company, East Chicago, Ind. Valve mechanism for ash-conveying or like systems. No. 1,393,905; Oct. 18.
- Poppenhusen, Herman A., Hammond, Ind., and R. T. R. Hastings, Highland Park, assignors to Sanitax Brush Company, Chicago, Ill. Brush. No. 1,396,973; Nov. 15.
- Popper, Isaac C., assignor to The Therox Company, New York, N. Y. Railway-switch heater. No. 1,396,664; Nov. 8.
- Popper, Joseph, Brooklyn, assignor of one-half to Baird-Daniels Co., Inc., New York, and one-half to Mrs. R. H. Popper, Brooklyn, N. Y. Amusement device. No. 1,377,221; May 10; v. 286; p. 206.
- Popper, Joseph, Brooklyn, assignor of one-half to Baird-Daniels Co., Inc., New York, and one-half to R. H. Popper, Brooklyn, N. Y. Toy spinning-top. No. 1,401,813; Dec. 27.
- Popper, Mrs. Ruby H., *et al.* (See Popper, Joseph, assignor.)
- Porharty, Fredrick, San Francisco, Calif. Valve for rotating drums. No. 1,393,825; Oct. 18.
- Port Orford Cedar Separator Company. (See Buckhart, James W., assignor.)
- Portable Machinery Company. (See Wentz, Jere L., assignor.)
- Porter, Adelaide M., Greenwich, Conn., assignor to Huyler's, New York, N. Y. Wrapped candy doll. No. 1,382,383; June 21; v. 287; p. 501.
- Porter-Cable Machine Company, The. (See Porter, George G., assignor.)
- Porter, Charles R. (See Walley, James J., assignor.)
- Porter, Charles S., Houston, Tex. Concrete-wall mold. No. 1,398,915; Nov. 29.
- Porter, David E., administrator. (See Pratt, Albert B., assignor.)
- Porter, Edgar S., Clifton, Colo. Fruit and vegetable slicer. No. 1,371,394; Mar. 15; v. 284; p. 421.
- Porter, Elizabeth E., St. Louis, Mo. Adapter for garment-hangers. No. 1,364,519; Jan. 4; v. 282; p. 92.
- Porter, Frank J., Kerman, Calif. Grappling-hook. No. 1,388,482; Aug. 23; v. 289; p. 681.
- Porter, Frederick C. (See Pester, M. E., Porter, and Hofma, I.)
- Porter, George G., Syracuse, N. Y. Tool-post. No. 1,396,461; Nov. 8.
- Porter, George G., Syracuse, N. Y. Safety mutual stop for Ford clutch-pedals. No. 1,401,359; Dec. 27.
- Porter, George G., assignor to The Porter-Cable Machine Company, Syracuse, N. Y. Back-facing attachment for lathes. No. 1,385,491; July 26; v. 288; p. 668.
- Porter, George H., San Francisco, Calif. Table structure. No. 1,385,094; July 19; v. 288; p. 511.
- Porter, George S., Jackson, Mich. Making wheels. No. 1,366,834; Jan. 25; v. 282; p. 670.
- Porter, George S., Jackson, Mich. Making wheels. No. 1,367,092; Feb. 1; v. 283; p. 42.
- Porter, Harry F., assignor to Pyroelectric Instrument Co., Trenton, N. J. Control apparatus. No. 1,377,274; May 10; v. 286; p. 227.
- Porter, Harry G. (See Joy, W. H., and Porter.)
- Porter, Herman P., Jacksonville, Fla. Attachment for window-sashes. No. 1,376,637; May 3; v. 286; p. 49.
- Porter, Herman P., Jacksonville, Fla. Window-sash. No. 1,388,121; Aug. 16; v. 289; p. 551.
- Porter, Hollis P., Tulsa, Okla. Fuel-burner. No. 1,395,139; Oct. 25.
- Porter, J. E., Company. (See Jordan, Burton S., assignor.)
- Porter, J. G., *et al.* (See Packwood, Charles W., assignor.)
- Porter, James S., Buffalo, N. Y. Machine for cleaning and treating streets. No. 1,390,639; Sept. 13; v. 290; p. 310.
- Porter, John J., Hagerstown, Md. Chemical appliance. No. 1,401,185; Dec. 27.
- Porter, John K. (See Emrick, B. R., and Porter.)
- Porter, Morgan W., Erie, Pa. Tray. No. 1,364,206; Jan. 1; v. 282; p. 31.
- Porter, Nellie, administratrix. (See Porter, Thomas.)
- Porter, Robert S., assignor of one-half to D. C. Burnham, San Diego, Calif. Fuse-plug. No. 1,372,450; Mar. 22; v. 284; p. 680.
- Porter, Robert S., San Diego, Calif., assignor of one-half to E. G. Siggers, Washington, D. C. Stopper for vacuum-bottles. No. 1,385,394; July 26; v. 288; p. 648.
- Porter, Thomas, deceased, by Nellie Porter, administratrix, Midlin township, Allegheny county, Pa. False sill for open-hearth furnace doors. No. 1,399,516; Dec. 6.
- Porter, Will R., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental-engine handpiece. No. 1,391,906; Sept. 27; v. 290; p. 700.
- Porter, William, Aurora, Oreg. Clevis. No. 1,388,122; Aug. 16; v. 289; p. 551.
- Porter, William K., Pittsburgh, Pa. Coaster wagon and sled. No. 1,401,640; Dec. 27.
- Porter, Winfield P., New York, N. Y. Pneumatic tire. No. 1,394,787; Oct. 25.
- Portham, Roland S., and J. Dornan, London, England. Water-tube boiler and superheater therefor. No. 1,375,174; Apr. 19; v. 285; p. 451.
- Porz, George V., Cleveland, Ohio. Means for dispensing ice-cream. No. 1,395,654; Nov. 1.
- Porz, George V., Cleveland, Ohio. Means for feeding and cutting ice-cream. No. 1,395,655; Nov. 1.
- Porzel, Joseph, Buffalo, N. Y., assignor, by mesne assignments, to Superior Rubber Company, Pittsburgh, Pa. Treating rubber. No. 1,374,231; Apr. 12; v. 285; p. 206.
- Posa, Emit M., Burleson, Tex. Air-storage-tank liquid-dispensing device. No. 1,377,922; May 10; v. 286; p. 352.
- Posa, Emit M., Burleson, Tex. Compressed-air-feed liquid-container. No. 1,377,923; May 10; v. 286; p. 353.
- Posavac, Stjepan, Chicago, Ill. Reversible plow. No. 1,386,363; Aug. 2; v. 289; p. 79.
- Poschadel, Leonard R., Milwaukee, Wis. Pneumatic tire. No. 1,401,814; Dec. 27.
- Posner, Abraham, Brooklyn, N. Y. Combined ankle-stay and arch-support. No. 1,386,531; Aug. 2; v. 289; p. 111.
- Posnick, George, Springfield, Mass. Shaving-gage. No. 1,391,274; Sept. 20; v. 290; p. 500.
- Posselt, Otto W. F., New York, N. Y. Collapsible umbrella. No. 1,390,382; Sept. 13; v. 290; p. 256.
- Possinger, William E., and G. T. Cunningham, Twin, Wash. Signal-control mechanism. No. 1,395,767; Nov. 1.
- Posson, Edward, Chicago, Ill. Brake mechanism for railway-cars. No. 1,364,641; Jan. 4; v. 282; p. 114.
- Posson, Edward, Chicago, Ill. Brake-hanger mechanism. No. 1,364,642; Jan. 4; v. 282; p. 114.
- Posson, Edward, Chicago, Ill. Column-casting for railway-cars. No. 1,369,906; Mar. 1; v. 284; p. 29.
- Posson, Edward, Chicago, Ill. Refrigerator-car construction. No. 1,388,600; Aug. 23; v. 289; p. 703.
- Posson, Edward, Chicago, Ill. Side bearing for railway-cars. No. 1,389,698; Sept. 6; v. 290; p. 27.
- Posson, Edward, Chicago, Ill. Door-fastener for railway-cars. No. 1,397,934; Nov. 22.
- Posson, Edward, Chicago, Ill. Compound hand-brake mechanism. No. 1,399,075; Dec. 6.
- Posson, Edward, Chicago, Ill. Compound hand-brake mechanism. No. 1,399,076; Dec. 6.
- Posson, Edward, Chicago, Ill. Draft-arm construction for railway-cars. No. 1,399,077; Dec. 6.
- Posson, Edward, Chicago, Ill. Compound brake mechanism. No. 1,399,078; Dec. 6.
- Posson, Edward, Chicago, Ill. Refrigerator-car. No. 1,399,079; Dec. 6.
- Post, Alfred P., Philadelphia, Pa. Floor-furnace. No. 1,333,852; July 5; v. 288; p. 123.
- Post, Alvah L. and H. R., Kent, Ohio. Concrete-block-molding machine. No. 1,396,779; Nov. 15.
- Post, Arthur W., Westbury, N. Y., assignor to American Telephone and Telegraph Company. Telegraph system. No. 1,395,007; Oct. 25.
- Post, Charles C., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Bucket carrying apparatus. No. 1,368,289; Feb. 15; v. 283; p. 380.
- Post, Claude L., Chicago, Ill. Tympan-removing device for printing-presses. No. 1,371,052; Mar. 8; v. 284; p. 291.
- Post, Claude L., Chicago, Ill. Tympan-removing device for printing-presses. No. 1,371,053; Mar. 8; v. 284; p. 292.
- Post, Claude L., Chicago, Ill. Inking-roller. No. 1,398,910; Nov. 29.
- Post, Clifford W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus for the treatment of articles with heat. No. 1,379,595; May 24; v. 286; p. 795.
- Post, Edward J., Philadelphia, Pa. Darning-hook. No. 1,401,728; Dec. 27.
- Post, Harry R. (See Post, Alvah L. and H. R.)
- Post, Mary, Norwalk, Iowa. Napkin. No. 1,389,530; Aug. 30; v. 289; p. 943.
- Post, Paul W., Algoma, Wis. Strapping device for dress-suit cases and the like. No. 1,397,016; Nov. 15.
- Post, Robert M., Chetek, Wis. Caster. No. 1,383,337; July 5; v. 288; p. 16.
- Post, Truman W., Providence, R. I., assignor to Willys Corporation, Toledo, Ohio. Headlight. No. 1,376,575; May 3; v. 286; p. 37.
- Post, Truman W., Providence, R. I., assignor to Willys Corporation, Toledo, Ohio. Headlight. No. 1,376,576; May 3; v. 286; p. 37.
- Post, Truman W., assignor to Arms Products Company, New York, N. Y. Attachment for firearms. No. 1,387,308; Aug. 9; v. 289; p. 339.
- Post, William, Brooklyn, N. Y. Banjo-bridge. No. 1,383,752; July 5; v. 288; p. 103.
- Postal, Ernest J., Grand Rapids, Mich. Phonograph-motor. No. 1,399,517; Dec. 6.
- Postel, Arthur F. and C. J. R., assignors of one-fourth to H. C. Krom and C. D. Lockman, Indianapolis, Ind. Bolt-lock. No. 1,387,172; Aug. 9; v. 289; p. 312.
- Postel, Charles J. R. (See Postel, Arthur and C. J. R.)



## Alphabetical list of patentees—Continued.

- Postel-Vinay, Pierre J. R., Paris, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Billancourt, France. Tailpiece for aeroplanes. No. 1,373,759; Apr. 5; v. 285; p. 73.
- Postel-Vinay, Pierre J. R., Paris, France, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), of Billancourt, France. Metal fitting for assembling longitudinal and uprights in aeroplanes. No. 1,390,216; Sept. 6; v. 290; p. 132.
- Postel-Vinay, Pierre J. R., assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), Paris, France. Device for fixing an engine in an aeroplane. No. 1,392,655; Oct. 4.
- Posternock, Joseph, Walpole, Mass. Clamp-buckle. No. 1,384,776; July 19; v. 288; p. 445.
- Postum Cereal Company. (See Lippen, Jonathan K., assignor.)
- Postum Cereal Company. (See Roewade, Oge, assignor.)
- Potash Extraction Corporation. (See Glaeser, Walter, assignor.)
- Potez, Henry C. A., Aubervilliers, France. Combustion-motor. No. 1,390,925; Sept. 13; v. 290; p. 367.
- Pothier, Frank. (See Morin, H., and Pothier.)
- Potsch, Arthur H. (See Bumpass, Cecil A., assignor.)
- Potschner, Karl, Dover, Ohio. Commode-seat cover. No. 1,377,791; May 10; v. 286; p. 327.
- Potstada, George, Oakland, Calif. Display-clamp. No. 1,394,788; Oct. 25.
- Potter, Arthur C., Mission, Tex. Necktie-holder. No. 1,374,322; Apr. 12; v. 285; p. 223.
- Potter, Arthur C., Mission, Tex. Orchard-heater or snudge-pot. No. 1,394,218; Oct. 18.
- Potter, Charles E. (See Phare, George A., assignor.)
- Potter, Charles H., et al. (See Service, William F., assignor.)
- Potter, Charles W., Waltham, Mass. Manifold-book. No. 1,382,798; June 28; v. 287; p. 635.
- Potter, Clarence S. and Warren T. (See House, Herbert E., assignor.)
- Potter, Ellis M., New York, N. Y., and G. S. Granlund, Newark, N. J.; said Granlund assignor to said Potter. Internal-combustion-engine attachment. No. 1,372,451; Mar. 22; v. 284; p. 681.
- Potter, Frederick D., Linden, N. J., assignor to Combustion Control Company, Inc., New York, N. Y. Means for combustion control. No. 1,393,826; Oct. 18.
- Potter, George M., et al. (See Haber, Henry J., assignor.)
- Potter, Harold C., Shreveport, La. Mixing device for internal-combustion engines. No. 1,396,054; Nov. 8.
- Potter, James C., Pawtucket, R. I. Metal-working machines. No. 1,389,216; Aug. 30; v. 289; p. 880.
- Potter, James C., Pawtucket, R. I. Ring spinning or twisting machine. No. 1,401,729; Dec. 27.
- Potter, Ralph S. (See Downs, C. R., and Potter.)
- Potter, Rutherford B., Brighton, Colo. Gradometer. No. 1,393,314; Oct. 11.
- Potter, Thomas, Jr. (See Fielding, F., and Potter.)
- Potter, Thomas J., Los Angeles, Calif. Gas-radiator. No. 1,368,571; Feb. 15; v. 283; p. 436.
- Potter, Washington M., Freedom, Pa. Lunch kit. No. 1,380,019; May 31; v. 286; p. 949.
- Potter, Wilbur C. (See Stines, E. H., and Potter.)
- Potter, Wilbur C., and E. H. Stines, New Brunswick, N. J. Attachment for knitting-machines. No. 1,398,570; Nov. 29.
- Potter's Asbestos Company. (See Tillotson, Edward, assignor.)
- Pottinger, Robert L., M. B. Flynn, and B. F. Price, Chicago, Ill. Hoisting and transporting apparatus. No. 1,367,987; Feb. 8; v. 283; p. 273.
- Potts, Edwin B., Jersey City, N. J., assignor to Auto-sales Corporation. Coin-controlled vending-machine. No. 1,382,584; June 21; v. 287; p. 502.
- Potts, Edwin B., Jersey City, N. J., and A. D. Grover, New York, N. Y., assignors to Autosales Corporation. Vending-machine indicator. No. 1,393,964; Oct. 18.
- Potts, George C., Chicago, Ill. Automobile-turntable. No. 1,378,898; May 24; v. 286; p. 663.
- Potts, Louis M., Baltimore, Md., assignor, by mesne assignments, to American Telephone and Telegraph Company, New York, N. Y. Machine-telegraph. No. 1,370,669; Mar. 8; v. 284; p. 219.
- Potts, Samuel A. (See Gains, Chester R., assignor.)
- Potts, Walter F., Philadelphia, Pa., assignor to J. L. Hawes, New York, N. Y. Wall-joint for safe or vault construction. No. 1,365,726; Jan. 18; v. 282; p. 408.
- Pouchain, Adolfo, Turin, Italy. Preparing negative plates for electric batteries. No. 1,364,953; Jan. 11; v. 282; p. 219.
- Pouchain, Adolfo, Turin, Italy. Making negative electrodes for electric accumulators. No. 1,366,489; Jan. 25; v. 282; p. 601.
- Pouchain, Adolfo, Turin, Italy. Negative plate for electric accumulators. No. 1,366,490; Jan. 25; v. 282; p. 601.
- Pouchain, Adolfo, Turin, Italy. Manufacture of negative plates for electric accumulators. No. 1,366,491; Jan. 25; v. 282; p. 601.
- Pouchain, Adolfo, Turin, Italy. Negative plate for electric accumulators. No. 1,399,995; Dec. 13.
- Pouchain, Adolfo, Turin, Italy. Negative plate for electric batteries. No. 1,399,996; Dec. 13.
- Pouget, Marcellin, Detroit, Mich. Speed-changing power-transmission device. No. 1,387,070; Aug. 9; v. 289; p. 292.
- Poulsen, Oscar, et al., executors. (See Krogh, Ferdinand W.)
- Pound, George H. (See Lambert, W. O., and Pound.)
- Pountney, Frank, Birmingham, assignor to Rudge-Whitworth Limited, Coventry, Warwick, England. Means for gaging the diameters of internal annular grooves. No. 1,395,768; Nov. 1.
- Pouvailsmith Corporation. (See Smith, Grant E., assignor.)
- Powdered Coal Engineering & Equipment Company. (See Kinyon, Alonzo G., assignor.)
- Powdered Coal Engineering and Equipment Company. (See Williams, T. F., Coy, and Pruden, assignors.)
- Powell, A. L., Power Co., The. (See Powell, Alvah L., assignor.)
- Powell, Allie B., Philadelphia, Pa. Hair-curler. No. 1,376,728; May 3; v. 286; p. 65.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,335; July 12; v. 288; p. 272.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,336; July 12; v. 288; p. 272.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,337; July 12; v. 288; p. 273.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,338; July 12; v. 288; p. 273.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,339; July 12; v. 288; p. 273.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,340; July 12; v. 288; p. 273.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,341; July 12; v. 288; p. 274.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,342; July 12; v. 288; p. 274.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,343; July 12; v. 288; p. 274.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,344; July 12; v. 288; p. 274.
- Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,345; July 12; v. 288; p. 275.
- Powell, Antoinette M. (See Powell, George G., assignor.)
- Powell, Charles R., New York, N. Y. Brake-shoe. No. 1,369,836; Mar. 1; v. 284; p. 16.
- Powell, Dwight. (See Powell, Milton C. and D.)
- Powell, George D., McKenzie, Tenn. Planter and fertilizer-distributor. No. 1,390,383; Sept. 13; v. 290; p. 257.
- Powell, George E., Chicago, Ill. Demountable automobile-wheel. No. 1,401,815; Dec. 27.
- Powell, George F., Toronto, Ontario, Canada. Air-valve. No. 1,370,483; Mar. 1; v. 284; p. 138.
- Powell, George G., assignor to A. M. Powell, New York, N. Y. Cane-cutting machine. No. 1,387,511; Aug. 16; v. 289; p. 431.
- Powell, Gomert. (See Oehm, W. N., and Powell.)
- Powell, Homer R. (See Ashmore, W. L., and Powell.)
- Powell, Howard L. (See Beers, F., and Powell.)
- Powell, Howard L. (See Bush, F. P., Serr, and Powell.)
- Powell, Howard L., assignor to National Biscuit Company, New York, N. Y. Apparatus for forming cakes, &c. No. 1,399,873; Dec. 13.
- Powell, James A. (See Ehrhart, R. N., and Powell.)
- Powell, John, Elwood, Ind. Transmission-gearing. No. 1,396,526; Nov. 8.
- Powell, John A. (See Rhoads, Howard F., assignor.)
- Powell, John R., Cleveland, Mont. Gate-fastener. No. 1,391,578; Sept. 20; v. 290; p. 562.
- Powell, Lyman S., Chicago, Ill. Boiler for vehicle steam-engines. No. 1,367,093; Feb. 1; v. 283; p. 42.
- Powell, Lyman S., Chicago, Ill. Automatic control for boiler-furnaces. No. 1,370,765; Mar. 8; v. 284; p. 238.
- Powell, Milton C., Chicago, Ill., and D. Powell, Brockton, Mass. Metal cabinet structure. No. 1,368,052; Feb. 8; v. 283; p. 286.
- Powell, Thomas A., Nauvoo, Ill. Grass-catcher for lawnmowers. No. 1,400,907; Dec. 20.
- Powell, Thomas B., and C. S. McLean, Long Beach, assignors, by mesne assignments, to T. O. Osborn, Los Angeles, Calif. Auxiliary windshield for vehicles. No. 1,400,979; Dec. 20.
- Powell, Thomas F., Retsil, Wash. Aerial toy parachute. (Reissue.) No. 15,091; Apr. 19; v. 285; p. 544.
- Powell, William E. C., Boston, Mass. Ironing-machine. No. 1,372,452; Mar. 22; v. 284; p. 681.
- Powell, William E. C., Chicago, Ill. Convertible washing-machine. No. 1,387,173; Aug. 9; v. 289; p. 312.
- Powell, William H., Elmer, N. J. Method and apparatus for making plate-glass. No. 1,381,591; June 14; v. 287; p. 292.



*Alphabetical list of patentees—Continued.*

- Powell, Winfred T., Rochester, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,364,643; Jan. 4; v. 282; p. 115.
- Powell, Winfred T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,387,174; Aug. 9; v. 289; p. 312.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Line-switch system. No. 1,382,012; June 21; v. 287; p. 432.
- Powell, Winfred T., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Automatic telephone system. No. 1,398,391; Nov. 29.
- Power Alcohol Limited. (See Le Petit, Charles, assignor.)
- Power, Frederick B., Washington, D. C., and V. K. Chesnut, Hyattsville, Md. Synthetic apple-oil. No. 1,366,541 Jan. 25; v. 282; p. 612.
- Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Film-lubricating device. No. 1,377,727; May 10; v. 286; p. 313.
- Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Lamp for projecting apparatus. No. 1,377,728; May 10; v. 286; p. 313.
- Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Lamp-house for moving-picture machines. No. 1,383,753; July 5; v. 288; p. 103.
- Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Lamp-house for moving-picture apparatus. No. 1,383,754; July 5; v. 288; p. 103.
- Power Specialty Company. (See Bell, John E., assignor.)
- Power, William T., New York, N. Y. Sterilizing outfit. No. 1,384,849; July 19; v. 288; p. 460.
- Powers Accounting Machine Company. (See Lasker, William W., assignor.)
- Powers Accounting Machine Company. (See Penney, H. D., and Davidson, assignors.)
- Powers Accounting Machine Company. (See Powers, James, assignor.)
- Powers, Donald J., Dobbs Ferry, N. Y., assignor to The Powers Regulator Company, Chicago, Ill. Fluid-mixer. No. 1,373,634; Apr. 5; v. 285; p. 49.
- Powers, Earl V., and W. J. Boyd, St. Louis, Mo. Auto adjustable sunshade. No. 1,388,199; Aug. 23; v. 289; p. 623.
- Powers, Frank T., New York, N. Y. Cooler for photo-mechanical printing-plates. No. 1,373,909; Apr. 5; v. 285; p. 103.
- Powers, Henry K., New Kensington, Pa. Combined antiseptic case and surgical knife. No. 1,390,720; Sept. 13; v. 290; p. 324.
- Powers, Hines A., Farry, Okla. Excavating-machine. No. 1,394,350; Oct. 18.
- Powers, James, New York, N. Y. Wheel-chain for vehicles. No. 1,391,402; Sept. 20; v. 290; p. 526.
- Powers, James, assignor to Powers Accounting Machine Company, New York, N. Y. Combined perforating and printing tabulator mechanism. No. 1,388,299; Aug. 23; v. 289; p. 644.
- Powers, James J. (See Crockett, P. M., Ehlinger, and Powers.)
- Powers, John N., assignor to United States Ordnance Company, Washington, D. C. Demountable rim for automobile-wheels. No. 1,379,418; May 24; v. 286; p. 761.
- Powers Regulator Company, The. (See Powers, Donald J., assignor.)
- Powers Regulator Company, The. (See Snediker, Morton O., assignor.)
- Powers, W. F., Company, The. (See Carter, Willis M., assignor.)
- Powers, William H., Eugene, Oreg. Shoe-shining machine. No. 1,391,076; Sept. 20; v. 290; p. 459.
- Powl, Elmer L., Lancaster, Pa. Receptacle-filling machine. No. 1,371,435; Mar. 15; v. 284; p. 429.
- Pownall, Henry D., Canton, Ohio. Ice-machine compressor. No. 1,379,694; May 31; v. 286; p. 888.
- Pownell, Henry S., Ottumwa, Iowa. Fruit-picker. No. 1,367,889; Feb. 8; v. 283; p. 235.
- Poyer, Emma, Los Angeles, Calif. Garment. No. 1,380,589; June 7; v. 287; p. 50.
- Poylaire, Leonard B. (See Georgeson, F. T., Tabor, and Roylaire.)
- Poynor, Camp L., North Fort Worth, Tex. Fertilizer and producing the same. No. 1,398,113; Nov. 22.
- Prada, Carlo, Milan, Italy. Electric switch. No. 1,387,865; Aug. 16; v. 289; p. 502.
- Pradeau, Charles W., London, England. Valve-mechanism for internal-combustion engines. No. 1,383,998; July 5; v. 288; p. 153.
- Prado P., Manuel, Santiago, Chile. Composition for matches and making same. No. 1,387,999; Aug. 16; v. 289; p. 528.
- Pragst, Ernest W., Schenectady, N. Y., assignor to General Electric Company, Electrical system. No. 1,378,557; May 17; v. 286; p. 525.
- Prairie, Exceor, West Kankakee, Ill. Loading device. No. 1,388,601; Aug. 23; v. 289; p. 703.
- Prassone, Eugenio, and L. Avorio, Rome, Italy. Observation kite-balloon. No. 1,377,924; May 10; v. 286; p. 353.
- Prater, Leonard L., Denver, Colo. Can-rack. No. 1,387,309; Aug. 9; v. 289; p. 339.
- Pratt, Albert B., deceased; D. E. Porter, administrator, Lyndon, Vt. Nut. No. 1,393,160; Oct. 11.
- Pratt, Alphonso C., Deep River, Conn. Bead-cable for automobile-tires. No. 1,386,072; Aug. 2; v. 289; p. 22.
- Pratt, Arthur D., Short Hills, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Superheater-boiler. (Reissue.) No. 15,210; Oct. 18.
- Pratt, Charles F., Plymouth, Wis. Weed-cutting attachment. No. 1,383,483; July 5; v. 288; p. 47.
- Pratt, David S., Pittsburgh, Pa. Fungicide and insecticide and producing the same. No. 1,374,951; Apr. 19; v. 285; p. 407.
- Pratt, David S., and C. W. Trigg, Pittsburgh, Pa., assignors to J. E. King, Detroit, Mich. Making water-soluble coffee extract and the product. No. 1,367,715; Feb. 8; v. 283; p. 222.
- Pratt, David S., and C. W. Trigg, Pittsburgh, Pa., assignor to J. E. King, Detroit, Mich. Adding segregated aromas to coffee extract. No. 1,367,716; Feb. 8; v. 283; p. 222.
- Pratt, Fred C., Farmington, Me. Fruit-slicer. No. 1,389,270; Aug. 30; v. 289; p. 891.
- Pratt, George E., Canon City, Colo. Car-wheel and means for mounting the same. No. 1,366,211; Jan. 18; v. 282; p. 502.
- Pratt, Haraden, San Francisco, Calif. Radiotelegraphic receiving system. No. 1,367,165; Feb. 1; v. 283; p. 56.
- Pratt, Herbert E., Chicago, Ill. Roller-bearing. No. 1,368,410; Feb. 15; v. 283; p. 403.
- Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Box-car loader. No. 1,381,009; June 7; v. 287; p. 132.
- Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Machine for cleaning railway-ballast. (Reissue.) No. 15,195; Sept. 13; v. 290; p. 378.
- Pratt, Huldah E., Detroit, Mich. Hair-waver. No. 1,399,874; Dec. 13.
- Pratt, John B., Schenectady, N. Y., assignor to General Electric Company. Degassifying process. No. 1,374,679; Apr. 12; v. 285; p. 293.
- Pratt, Lewis M., assignor of one-half to R. A. Medlin, Eldorado, Kans. Catch for screen-doors and the like. No. 1,379,040; May 24; v. 286; p. 690.
- Pratt-Low Preserving Co. (See Low, D., and Gavin, assignors.)
- Pratt, Maud, Chicago, Ill. Hand portable sewing-machine. No. 1,394,936; Oct. 25.
- Pratt Read Player Action Company, The. (See Fisher, Stanley L., assignor.)
- Pratt Read Player Action Company, The. (See Moore, Ernest D., assignor.)
- Pratt, W. E. (See Clark, Elmer A., assignor.)
- Pratt & Whitney Company. (See Blood, Bryant H., assignor.)
- Pratt & Whitney Company. (See Fallow, Gavin S., assignor.)
- Pratt & Whitney Company. (See Hanson, Bengt. M. W., assignor.)
- Pratt & Whitney Company. (See Müller, Friederich, assignor.)
- Pratt & Whitney Company. (See Müller, Friederich, assignor.) (Reissue.)
- Pratt & Whitney Company. (See Thacher, John J., assignor.)
- Pratt, William A., Bayonne, N. J., assignor to The M. W. Kellogg Company, New York, N. Y. Welding. No. 1,366,593; Jan. 25; v. 282; p. 622.
- Pratt, William A., Bayonne, N. J., assignor to The M. W. Kellogg Co. Hydraulic-pipe joint. No. 1,378,054; May 17; v. 286; p. 429.
- Pratt, William B., Wellesley, assignor to E. H. Clapp Rubber Company, Boston, Mass. Securing certain derivatives of terpenes. No. 1,380,414; June 7; v. 287; p. 17.
- Pratt, William B., Wellesley, assignor to Rondout Rubber Company, East Dodham, Mass. Devulcanizing rubber. No. 1,382,669; June 28; v. 287; p. 611.
- Pratt, William E. (See Van Fleet, Elon J., assignor.)
- Pray, Louis H., Medford, Mass. Unit system for player-pianos. No. 1,401,730; Dec. 27.
- Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine. No. 1,384,404; July 12; v. 288; p. 287.
- Praytor, William B., Mount Pleasant, Tex. Showcase or screen. No. 1,389,898; Sept. 6; v. 290; p. 69.
- Preble, Edwin N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-support for shoe-leveling machines. No. 1,386,655; Aug. 9; v. 289; p. 208.
- Precinauskas, Alexander S., Waukegan, Ill. Game. No. 1,373,448; Apr. 5; v. 285; p. 13.
- Precision Equipment Company, The. (See New, Thomas E., assignor.)
- Precision Metal Workers. (See Grunwald, Albert C., assignor.)
- Precision Truing Machine and Tool Company, The. (See Conners, Edward R., assignor.)
- Preetorius, Irwin W., Chicago, Ill. Letter-box. No. 1,369,125; Feb. 22; v. 283; p. 582.
- Preetorius, Irwin W., Chicago, Ill. Razor-blade sharpener. No. 1,392,793; Oct. 4.



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- Preiel, Nicholas. (See Wyman, George S., assignor.)  
 Preiss, Adolph M., Kansas City, Mo. Oil-burner radiator. No. 1,382,853; June 28; v. 287; p. 645.  
 Prell, Henry, Cleveland, Ohio. Cleaner. No. 1,394,789; Oct. 25.  
 Prell, Henry, Cleveland, Ohio, assignor, by mesne assignments, to F. J. Kuhlemeier, Burlington, Iowa. Apparatus for heating, roasting, and cooling food products. No. 1,398,114; Nov. 22.  
 Prell, Henry, Cleveland, Ohio, assignor to F. J. Kuhlemeier, Burlington, Iowa. Roasting coffee. No. 1,398,115; Nov. 22.  
 Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate-valve. No. 1,385,147; July 19; v. 288; p. 523.  
 Premier Cushion Spring Company. (See McCullough, W. D., and Mahoney, assignors.)  
 Premier Motor Corporation. (See Crawford, Charles S., assignor.)  
 Premier Motor Corporation of America. (See Taylor, John S., assignor.)  
 Premier Motor Corporation of America, The. (See Brownback, Henry L., assignor.)  
 Premier Warm Air Heater Company. (See Wood, Harry L., assignor.)  
 Prendergast, Harold Y., New York, N. Y. Stylus-bar mounting for sound-boxes. No. 1,395,972; Nov. 1.  
 Prendergast, Thomas A., Milbank, S. D. Earthworking-machine. No. 1,397,653; Nov. 22.  
 Prentis, Arthur E., Kent, England. Mop. No. 1,381,739; June 14; v. 287; p. 23.  
 Prentiss, Lewis S., Seattle, Wash. Box-cover fastener. No. 1,364,802; Jan. 4; v. 282; p. 146.  
 Prentiss, William, Jr. (See McNulty, Daniel H., Jr., assignor.)  
 Prenzlów, Herman F., Johnson Creek, Wis. Electric resistance unit. No. 1,401,186; Dec. 27.  
 Preo, John L. (See Henne, I., and Preo.)  
 Preo, John L., and I. Henne, New York, N. Y. Machine for affixing shoe-heels. No. 1,366,417; Jan. 25; v. 282; p. 586.  
 Press, Jacob H. (See Avery, Irving F., assignor.)  
 Press, John. (See Reichmann, F. J., and Press.)  
 Press, Ray A., Grinnell, Kans. Disk-harrow spindle and boxing. No. 1,391,853; Sept. 27; v. 290; p. 690.  
 Pressed Prism Plate Glass Company. (See Ross, Myron A., assignor.)  
 Pressed Steel Car Company. (See Blest, Minot C., assignor.)  
 Pressed Steel Car Company. (See Cotton, Charles S., assignor.)  
 Pressed Steel Car Company. (See Kaup, H. E., and Wilcox, assignors.)  
 Pressed Steel Car Company. (See Streib, John F., assignor.)  
 Pressed Steel Car Company. (See Strom, Swan R., assignor.)  
 Pressed Steel Manufacturing Company, The. (See Sisson, Vinton E., assignor.)  
 Pressell, George W., assignor to E. F. Houghton & Co., Philadelphia, Pa. Base for metal-cutting compounds and process of preparing the same. No. 1,367,428; Feb. 1; v. 283; p. 109.  
 Pressey, Wilbur A., Boston, Mass., assignor to General Electric Company. System of distribution. No. 1,373,910; Apr. 5; v. 285; p. 103.  
 Pressler, Walter. (See Gould, E. J., and Pressler.)  
 Pressure Proof Piston Ring Company. (See Marshall, Lewis C., assignor.)  
 Prest, Austin H., Los Angeles, Calif. Rocking-chair. No. 1,377,600; May 10; v. 286; p. 289.  
 Prestgaard, Thor P., Hedalen, near Sjoa, Norway. Sprinkling-machine. No. 1,388,440; Aug. 23; v. 289; p. 673.  
 Presto Color Company. (See Pfingsten, John H., assignor.)  
 Prest-O-Lite Co. (See Westlund, Albert F., assignor.)  
 Prest-O-Lite Company, The. (See Jepson, John W., assignor.)  
 Prest-O-Lite Company. (See Noble, I. M., and Gossling, assignors.)  
 Prest-O-Lite Company, The. (See Root, Howard C., assignor.)  
 Presto Metal Stamping Corporation. (See Levine, A., and Offerman, assignors.)  
 Presto-Passenger Truck Co. (See Prouty, William B., assignor.)  
 Preston, Albert F., deceased, Boston; J. Abbott, Winchester, and A. B. White, Brookline, administrators of said A. F. Preston, assignors to J. Abbott, Winchester, and A. B. White, Brookline, Mass. Pattern-cutting machine. No. 1,383,023; June 28; v. 287; p. 678.  
 Preston, Alston L., Leominster, Mass. Hair ornament. No. 1,374,524; Apr. 12; v. 285; p. 263.  
 Preston, Charles F., assignor to E. J. Magerstadt, Chicago, Ill. Curtain-window. No. 1,401,360; Dec. 27.  
 Preston, Charles F., Mamaroneck, assignor to J. Bendien, New York, N. Y. Making containers. No. 1,401,361; Dec. 27.  
 Preston, Clarence S., San Diego, Calif. Vehicle-tire. No. 1,377,627; May 10; v. 286; p. 294.  
 Preston, Grace D., Lakeside, assignor of two-fifths to A. G. Smith, Elyria, Ohio. Fastening device. No. 1,374,680; Apr. 12; v. 285; p. 293.  
 Preston, Guy H., Douglas, Ariz. Mess kit. No. 1,383,853; July 5; v. 288; p. 124.  
 Preston, Joseph W., Jr., *et al.* (See Cranmer, John J., assignor.)  
 Preston, Neil D., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Signaling system for single-track railways. No. 1,399,725; Dec. 6.  
 Preston, Neil D., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Signaling system for single-track railways. No. 1,386,073; Aug. 2; v. 289; p. 22.  
 Preston, Ralph A. D., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Dirigible. No. 1,370,043; Mar. 1; v. 284; p. 54.  
 Prestwich, Sydney. (See Braley, C. L., and Prestwich.)  
 Prestwich, Sydney, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Control for extractors. No. 1,392,352; Oct. 4.  
 Prete, Henry S., Devils Lake, N. D. Mail delivering and catching device. No. 1,382,543; June 21; v. 287; p. 532.  
 Prettie, Richard J., Jamaica, N. Y., assignor to The Aeolian Company. Automatic stop for phonographs. No. 1,382,544; June 21; v. 287; p. 532.  
 Preuss, Max, Charlottenburg, Germany. Electromagnetic clutch. No. 1,387,902; Aug. 16; v. 289; p. 509.  
 Prevost, Alfred L., Mystic, Conn. Clothespin and manufacture thereof. No. 1,382,931; June 28; v. 287; p. 660.  
 Preyer, Arthur E., New York, N. Y. Tire and constructing the same. No. 1,373,094; Mar. 29; v. 284; p. 848.  
 Pribil, Alexis R., Cleveland, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Sheet-metal gear-case. No. 1,386,026; Aug. 2; v. 289; p. 13.  
 Pribnow, John E., assignor to E. C. Atkins & Company, Indianapolis, Ind. Saw-swage. No. 1,382,743; June 28; v. 287; p. 624.  
 Pribnow, Louis C. W., assignor to P. G. Schilling, Norfolk, Nehr, Lawn-mower. No. 1,394,351; Oct. 18.  
 Pribula, John, Chicago, Ill. Tractor. No. 1,369,540; Feb. 22; v. 283; p. 662.  
 Price, Abner R., Toronto, Ontario, Canada. Attachment for spark-plugs. No. 1,397,017; Nov. 15.  
 Price, Abraham E., Oregon City, Oreg. Baby-carriage attachment for motor-vehicles. No. 1,380,678; June 7; v. 287; p. 67.  
 Price, Benjamin F. (See Pottinger, R. L., Flynn, and Price.)  
 Price, Charles C., and D. V. Bridwell, Dumas, Ark. Stand for Ford engines. No. 1,373,526; Apr. 5; v. 285; p. 29.  
 Price, Charles E., assignor of one-half to G. M. Alexander, San Diego, Calif. Muffler for exhaust-gases. No. 1,383,150; June 28; v. 287; p. 702.  
 Price, Charles P., assignor to American Tar Company, Boston, Mass. Spraying apparatus. No. 1,387,071; Aug. 9; v. 289; p. 293.  
 Price, Charles S., Denver, Colo. Shell-fish scraper. No. 1,380,247; May 31; v. 286; p. 991.  
 Price, Cleo, Falun, Kans. Window-lock. No. 1,387,903; Aug. 16; v. 289; p. 509.  
 Price, E. M., assignor of one-half to M. B. Holsclaw, Percival, Iowa. Roofing-bracket. No. 1,369,837; Mar. 1; v. 284; p. 16.  
 Price, Eri M., assignor of one-half to M. B. Holsclaw, Percival, Iowa. Tail end-gate for wagons. No. 1,384,212; July 12; v. 288; p. 246.  
 Price, Filmore M., Floydada, Tex. Well-casing extractor. No. 1,387,944; Aug. 16; v. 289; p. 517.  
 Price, Filmore M., Floydada, Tex. Attachment for broadcast headers. No. 1,390,159; Sept. 6; v. 290; p. 121.  
 Price, Frank G., Scotstoun, Glasgow, Scotland. Apparatus for consolidating granular substances in molds or other receptacles. No. 1,387,175; Aug. 9; v. 289; p. 312.  
 Price, Frank L., *et al.* (See Poole, John H., assignor.)  
 Price, George B., Salt Lake City, Utah. Demountable spring covering and oiler. No. 1,381,010; June 7; v. 287; p. 132.  
 Price, Joseph, New York, N. Y., assignor to The Griscom Russell Company. Heat-interchanger. No. 1,382,670; June 28; v. 287; p. 611.  
 Price, Joseph H., Cape Girardeau, Mo. Automobile-lock. No. 1,377,157; May 3; v. 286; p. 148.  
 Price & Lee Company, The. (See Tarnham, Hubert J., assignor.)  
 Price, Louis T., Portland, Oreg. Washing-machine. No. 1,390,160; Sept. 6; v. 290; p. 121.  
 Price, Matt, Salina, Kans. Automobile-hoist. No. 1,381,592; June 14; v. 287; p. 292.  
 Price, Mitchell D., Miami, Fla. Fishing-rod. No. 1,371,261; Mar. 15; v. 284; p. 394.  
 Price, Mitchell D., Miami, Fla. Fishing-reel clamp. No. 1,382,545; June 21; v. 287; p. 533.  
 Price, Sidney L., London, England. Device for starting internal-combustion engines. No. 1,379,361; May 24; v. 286; p. 751.  
 Price, Stephen C., Louisiana, assignor to Ronald L. Paterson, St. Louis, Mo. Dispensing device. No. 1,370,706; Mar. 8; v. 284; p. 226.  
 Price, Stephen C., Louisiana, Mo., and E. E. Richardson, Quincy, Ill., assignors to P. R. B. Pump Co., Hannibal, Mo. Oil dispensing and measuring device. No. 1,380,590; June 7; v. 287; p. 50.



*Alphabetical list of patentees—Continued.*

- Price & Teeple Piano Company. (See Freborg, Charles, assignor.)
- Price, Theodore H., B. C. White, New York, and W. J. Dudley, Brooklyn, N. Y.; said White and Dudley assignors to said Price. Cotton-picker. No. 1,387,176; Aug. 9; v. 289; p. 312.
- Price, William F., Broad Mountain, Pa. Steel tie and rail-fastener therefor. No. 1,383,423; July 5; v. 288; p. 35.
- Price, William G., Yakima, Wash. Box-making bench. No. 1,378,899; May 24; v. 286; p. 663.
- Price, William G., Yakima, Wash. Box or package handling apparatus. No. 1,388,200; Aug. 23; v. 289; p. 624.
- Price, William G., Yakima, Wash. Fruit-box press. No. 1,388,201; Aug. 23; v. 289; p. 624.
- Price, William G., Yakima, Wash. Friction-clutch. No. 1,397,902; Nov. 22.
- Price, William G., Yakima, Wash. Gravity-carrier. No. 1,399,318; Dec. 6.
- Price, William K., Selah, Wash. Fruit-sizing machine. (Reissue.) No. 15,218; Nov. 1.
- Prichard, Robert H., Los Angeles, Calif. Canteen. No. 1,371,436; Mar. 15; v. 284; p. 430.
- Prichard, Robert H., Los Angeles, Calif. Enameling plates and the like. No. 1,381,736; June 14; v. 287; p. 321.
- Prichard, Robert H., Los Angeles, Calif. Machine for enameling plates and the like. No. 1,385,492; July 26; v. 288; p. 668.
- Prickett, Clinton E., Fairmont, W. Va. Match-box holder. No. 1,397,232; Nov. 15.
- Prickett, Clyde W., Winterset, Iowa. Concrete and wood floor construction device. No. 1,381,740; June 14; v. 287; p. 321.
- Prickett, William H., Trenton, N. J. Tone-foot for phonographs. No. 1,374,029; Apr. 5; v. 285; p. 126.
- Pride, William H., Springfield, Ill. Compound track-rail. No. 1,389,217; Aug. 30; v. 289; p. 880.
- Priebe, A. and H., Antigo, Wis. Heater for automobile-radiators. No. 1,388,300; Aug. 23; v. 289; p. 644.
- Priebe, Ernest B., *et al.* (See Schmidt, Herman, assignor.)
- Priebe, Hubert. (See Priebe, Amandus and H.)
- Priem, Friedrich P., Heidenheim, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Machine for producing narrow paper strips. No. 1,392,218; Sept. 27; v. 290; p. 764.
- Priem, Friedrich P., Heidenheim-on-the-Brenz, Germany, assignor to Turk Gesselschaft m. b. H., Hamburg, Germany. Machine for producing rovings from paper-pulp. No. 1,392,282; Sept. 27; v. 290; p. 777.
- Priem, Friedrich P., Heidenheim-on-the-Brenz, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Device for leading away and distributing fiber strips in manufacturing rovings from paper-pulp and the like. No. 1,392,283; Sept. 27; v. 290; p. 777.
- Priest, George W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing linoleum and product thereof. No. 1,381,737; June 14; v. 287; p. 321.
- Priest, George W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Linoleum composition and making same. No. 1,381,738; June 14; v. 287; p. 321.
- Priest, James V., Los Angeles, Calif. Loose-tread traction-wheel. No. 1,378,131; May 17; v. 286; p. 444.
- Priester, Charles J., Hackensack, N. J. Press for molding dolls and other plastic articles. No. 1,368,836; Feb. 15; v. 283; p. 487.
- Priestley, Charles H., Elizabeth, N. J. Electric furnace. No. 1,380,248; May 31; v. 286; p. 992.
- Priestley, Thomas J., Jr., Philadelphia, Pa. Device for enhancing the resiliency of vehicle-springs. No. 1,373,527; Apr. 5; v. 285; p. 29.
- Priestman, Edmund, Sheffield, England. Pocket-knife and tool-pad. No. 1,397,018; Nov. 15.
- Prietz, Reinhold, *et al.* (See Kolling, Charles H., assignor.)
- Prigan, Ernest W., assignor to H. C. Naylor and S. H. Keeney, Indianapolis, Ind. Electric-switch structure. No. 1,382,385; June 21; v. 287; p. 502.
- Primbs, Geo., & Sons. (See Primbs, Joseph, assignor.)
- Primbs, Joseph, assignor to Geo. Primbs & Sons, Pocatello, Idaho. Banking-form. No. 1,371,573; Mar. 15; v. 284; p. 457.
- Primbs, Joseph, assignor to Geo. Primbs & Sons, Inc., Pocatello, Idaho. Commercial form. No. 1,401,641; Dec. 27.
- Primeau, Joseph J., Worcester, Mass. Combined coat and hat hanger. No. 1,389,218; Aug. 30; v. 289; p. 880.
- Primmer, Burrows J., and J. L. Halstead, Los Angeles, Calif. Machine for making reinforced concrete pipe. No. 1,400,457; Dec. 13.
- Primrose, John, New York, N. Y. Oil-still. No. 1,389,978; Sept. 6; v. 290; p. 84.
- Primrose, William E., assignor to Challenge Cutlery Corporation, Bridgeport, Conn. Drilling and pinning-on machine for pocket-knife scales and linings. No. 1,367,831; Feb. 8; v. 283; p. 245.
- Prims, Joseph C., Hornell, N. Y. Apparatus for spinning artificial silk. No. 1,371,113; Mar. 8; v. 284; p. 303.
- Prince, Arthur C., Chicago, Ill. Bank. No. 1,395,008; Oct. 25.
- Prince, Arthur C., Chicago, Ill. Lock. No. 1,400,908; Dec. 20.
- Prince, Burton A., Westfield, Mass. Jackknife. No. 1,370,995; Mar. 8; v. 284; p. 281.
- Prince, Edmond, Lyon, assignor to Societe Chimique Des Usines Du Rhone (anciennement Gilliard P. Monnet et Cartier), Paris, France. Preparing cellulose acetate for dyeing. No. 1,366,023; Jan. 18; v. 282; p. 466.
- Prindle, Edwin J., East Orange, N. J., assignor, by mesne assignments, to Fitz-Empire Double Pivot Last Company, Auburn, Me. Manufacture of articles having a systematic resemblance to a pattern. No. 1,388,301; Aug. 23; v. 289; p. 644.
- Prindle, Edwin J., East Orange, N. J., assignor, by mesne assignments, to Fitz-Empire Double Pivot Last Company, Auburn, Me. Manufacture of articles having a systematic resemblance to a pattern. No. 1,388,302; Aug. 23; v. 289; p. 645.
- Pringle, Albert L. (See Kelly, J. G., Pringle, and Hall.)
- Pringle, Alexander, and T. S. Kirk, Belfast, Ireland. Artificial limb. No. 1,384,850; July 19; v. 288; p. 461.
- Pringle, Alexander, and T. S. Kirk, Belfast, Ireland. Artificial limb. No. 1,397,654; Nov. 22.
- Pringle, Frank W., Crosswell, Mich. Cucumber-picker. No. 1,371,437; Mar. 15; v. 284; p. 430.
- Pringle, Jesse N., Artega, Fla., assignor of one-half to W. V. Strom, Jacksonville, Fla. Sanitary bottle-mouth guard. No. 1,382,318; June 21; v. 287; p. 489.
- Printeasie, Limited. (See Gunnill, Ernest, assignor.)
- Printing Utilities Company. (See Brüggmann, William F., assignor.)
- Printz, Harold E., assignor to Reading Wood Pulley Company, Reading, Pa. Pulley. No. 1,375,607; Apr. 19; v. 285; p. 533.
- Pritchard, Carl G., Warren, assignor to The Harris Automatic Press Company, Cleveland, Ohio. Automatic scraper control for rotogravure printing-presses. No. 1,383,338; July 5; v. 286; p. 17.
- Pritchard, Carl G., Warren, assignor to The Harris Automatic Press Company, Cleveland, Ohio. Pile-delivery governor. No. 1,386,364; Aug. 2; v. 289; p. 791.
- Pritchard, Ernest C., Chicago, Ill. Cigarette-package opener. No. 1,370,996; Mar. 8; v. 284; p. 281.
- Pritchard, George A. (See Buckman, H. H., and Pritchard.)
- Pritchard, Percy, Birmingham, England. Foundry molding-machine. No. 1,384,777; July 19; v. 288; p. 445.
- Pritchard, Ray W., Baltimore, Md. Rim-guard for tires. No. 1,388,000; Aug. 16; v. 289; p. 528.
- Pritchard, William S., assignor to Motor Products Corporation, Detroit, Mich. Tube-cutting mechanism. No. 1,367,564; Feb. 8; v. 283; p. 193.
- Pritchett, Joseph F., assignor of one-fourth to J. A. Johnson, Columbus, Ga., one-fourth to Q. T. Foster and one-fourth to F. A. Patrick, Columbus, Ga. Stringer. No. 1,399,875; Dec. 13.
- Pritz, Eric M., Jackson, Ohio. File. No. 1,379,779; May 31; v. 286; p. 903.
- Pritz, Benjamin C. F., Stillwater, Minn. Plow-releasing device. No. 1,373,971; Apr. 5; v. 285; p. 116.
- Privett, Charles R., *et al.* (See Privett, Henry C., assignor.)
- Privett, Helen E., *et al.* (See Privett, Henry C., assignor.)
- Privett, Henry C., Long Beach, assignor of one-half to C. R. Privett, Burbank, three-sixteenths to H. E. Privett, and one-sixteenth to H. F. Privett, Long Beach, Calif. Puncture-closing tread-strip. No. 1,390,249; Sept. 6; v. 290; p. 138.
- Privett, Henry C., Long Beach, assignor of one-half to C. R. Privett, Burbank, three-sixteenths to H. E. Privett, and one-sixteenth to H. F. Privett, Long Beach, Calif. Inner tube. No. 1,399,575; Dec. 6.
- Privett, Hollis F., *et al.* (See Privett, Henry C., assignor.)
- Priver, Herman F., Springfield, Ohio, assignor of one-half to J. E. Galvin. Electric steel furnace. No. 1,392,965; Oct. 11.
- Prizer, Harry A., assignor to William Mann Company, Philadelphia, Pa. Check-book. No. 1,401,279; Dec. 27.
- Prizio, Martin J. (See Roskopf, Fritz, assignor.)
- Probst, John P., Marion, Ohio. Filter. No. 1,367,324; Feb. 1; v. 283; p. 88.
- Probst, John P., Marion, Ohio. Filter. No. 1,367,325; Feb. 1; v. 283; p. 88.
- Probst, John P., Marion, Ohio. Filtering. No. 1,378,274; May 17; v. 286; p. 471.
- Process Company, The. (See Coast, John W., Jr., assignor.)
- Process Engineers Incorporated. (See De Cew, Judson A., assignor.)
- Prochazke, Otto, Detroit, Mich. Illuminated house-number. No. 1,379,780; May 31; v. 286; p. 903.
- Procter & Gamble Company, The. (See Crouch, Marion L., assignor.)
- Proctor, Barton A., New York, N. Y. Ground-speed device for aeroplanes. No. 1,383,660; July 5; v. 288; p. 83.
- Proctor & Schwartz. (See Ayres, Elwood B., assignor.)
- Proctor, Thomas A., Mingo Junction, Ohio. Curtain-stretcher. No. 1,366,835; Jan. 25; v. 282; p. 670.



## Alphabetical list of patentees—Continued.

- Procunier, Frank R., assignor of one-half to L. N. Turner and one-fourth to J. C. Stryker, Chicago, Ill. Automobile-bumper. No. 1,397,741; Nov. 22.
- Products Syndicate. (See Byers, Joseph J., assignor.)
- Proesch, Ralph L., Beaver Dam, Wis. Spark-intensifier. No. 1,371,114; Mar. 8; v. 284; p. 303.
- Proesch, Frederick, Sioux City, Iowa. Artificial cultivation of broncho-pneumonia virus for use in the treatment of swine. No. 1,391,579; Sept. 20; v. 290; p. 562.
- Progress Watch and Clock Manufacturing Company. (See Hovath, Alexander, assignor.)
- Progressive Commodity Company. (See Beckner, Noah J., assignor.)
- Prokesh, Annie, New York, N. Y. Maternity-garment. No. 1,372,977; Mar. 29; v. 284; p. 826.
- Prokopowicz, John. (See Oprisak, A., and Prokopowicz.)
- Prokopowicz, Thomas, St. Louis, Mo. Mill for grinding grain. No. 1,392,219; Sept. 27; v. 290; p. 764.
- Pronovost, Joseph, Detroit, Mich. Resilient wheel. No. 1,396,233; Nov. 8.
- Proper, Russell H., New York, N. Y. Ice-cream-sandwich machine. No. 1,387,613; Aug. 16; v. 289; p. 451.
- Prose, Harrison D., Macksville, Kans. Beet-topper. No. 1,376,461; May 3; v. 286; p. 16.
- Prossen, Louis P., New York, N. Y. Machine for bending piston-rings and the like. No. 1,373,095; Mar. 29; v. 284; p. 848.
- Prosser, Thomas W. (See Kelly, J. H., and Prosser.)
- Prosser, Walter E., Louisville, Ky., and A. E. Higgins, Buffalo, N. Y. Portable steam-generator. No. 1,395,973; Nov. 1.
- Protected Seat Valve Company. (See Borchert, C. A., and O'Neill, assignors.)
- Protected Seat Valve Company. (See Dempler, George P., assignor.)
- Protective Signal Manufacturing Company, The. (See Neahr, Will C., assignor.)
- Protecto Pump Company, The. (See Hatmaker, William T., assignor.)
- Protein Products Corporation. (See Wescott, William B., assignor.)
- Prött, Carl H., Rheydt, Germany. Apparatus for determining the amount of heat in the air. No. 1,400,313; Dec. 13.
- Protz, George L., Clovis, N. Mex. Fuel-economizer. No. 1,392,447; Oct. 4.
- Proudford, Charles S. (See Harry, R. J., and Proudfoot.)
- Proudford, James G. B., Grafton, W. Va. Locomotive-journal lubricator. No. 1,400,237; Dec. 13.
- Prouty, Enoch, Arcadia, Fla. Copy-holder. No. 1,378,612; May 17; v. 286; p. 536.
- Prouty, George W., Milton, Mass. Hydraulic toggle-press. No. 1,382,386; June 21; v. 287; p. 502.
- Prouty, L. A., Company. (See Morlok, William, assignor.)
- Prouty, William B., Evanston, Ill., assignor to Presto-Passenger Truck Co., Chicago, Ill. Vehicle-body brace. No. 1,365,341; Jan. 11; v. 282; p. 293.
- Provich, Michael, Chicago, Ill. Stopper. No. 1,388,890; Aug. 30; v. 289; p. 815.
- Provine, Oscar T., Big Creek, Miss. Harvester. No. 1,369,838; Mar. 1; v. 284; p. 16.)
- Provorse, Oscar M., and R. C. Sutherland, Wynona, Okla. Pumping mechanism for oil-wells. No. 1,401,440; Dec. 27.
- Provost, James J. (See Goguen, C. J., and Provost.)
- Prowest, Charles O., New York, N. Y. Resilient wheel. No. 1,368,837; Feb. 15; v. 283; p. 487.
- Prucha, William J., San Diego, Calif. Device for making stereoscopic photographs. No. 1,371,438; Mar. 15; v. 284; p. 430.
- Prudden, Theodore M., Newton, Mass. Ball-bearing spindle. No. 1,389,009; Aug. 30; v. 289; p. 840.
- Pruden, Harry B. (See Williams, T. F., Coy. and Pruden.)
- Prue, Frank J., Woonsocket, R. I. Undergarment. No. 1,366,492; Jan. 25; v. 282; p. 601.
- Pruessman, Albert, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Condenser and making the same. (Reissue.) No. 15,241; Nov. 29.
- Prugger, Raoul, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Coil-supporting device. No. 1,368,350; Feb. 15; v. 283; p. 392.
- Prussian, Samuel W. (See Hawley R., and Sheinwald, assignors.)
- Pruszyński, Adolph J., Chicago, and A. O. H. Ebert, assignors to Woodstock Typewriter Company, Woodstock, Ill. Key-lever spring-lock. No. 1,384,088; July 12; v. 288; p. 221.
- Prutzman, Paul W., Los Angeles, Calif., assignor to General Petroleum Corporation. Material for decolorizing oil and producing the same. No. 1,397,113; Nov. 15.
- Prutzman, Paul, and G. L. Goodwin, Santa Maria, Calif., assignors, by mesne assignments, to General Petroleum Corporation. Treating asphaltic oils. No. 1,399,792; Dec. 13.
- Pryde, Irving A., Richmond, Va., assignor to American Can Company, New York, N. Y. Handle-soldering machine. No. 1,371,262; Mar. 15; v. 284; p. 395.
- Prym, August, Büsbach, near Stolberg, Germany. Fastening of the spring-sockets of press-buttons. No. 1,399,319; Dec. 6.
- Pryor, John T. (See Dix, H. S., Pryor, and Coffey.)
- Przybyla, Walenty M., Metz, Mich. Combined watch chain and charm. No. 1,371,932; Mar. 15; v. 284; p. 526.
- Psachos, Nicholas K., Detroit, Mich. Manifold. No. 1,364,310; Jan. 4; v. 282; p. 52.
- Psikal, Joseph, Ponca City, Okla. Motor propulsion for agricultural implements. No. 1,370,151; Mar. 1; v. 284; p. 75.
- Psilander, Charles A., assignor to W. Wharton, Jr., & Company, Incorporated, Easton, Pa. Cast underframe for cars. No. 1,367,429; Feb. 1; v. 283; p. 109.
- Publisher's Utilities Co., The. (See Hopkins, Edward P., assignor.)
- Publow, Henry L. (See Reed, H. S., and Publow.)
- Puc, Vojtech, Prague-Vinohrady, Bohemia. Safety-pin. No. 1,387,512; Aug. 16; v. 289; p. 431.
- Pudumjee, Hormusjee D., et al. (See Mehta, Phirozeshaw M., assignor.)
- Puening, Franz, Pittsburgh, Pa. Method of and apparatus for cracking hydrocarbons. (Reissue.) No. 15,239; Nov. 29.
- Puening, Franz, assignor to American Tar Products Company, Chicago, Ill. Process and apparatus for coking pitch. No. 1,392,879; Oct. 4.
- Pueppke, Gottlieb A., Oshkosh, Wis. Nut-cracking device. No. 1,400,099; Dec. 13.
- Puff, Henry, Los Angeles, Calif. Camper's folding table. No. 1,368,452; Feb. 15; v. 283; p. 412.
- Puffer, George D., et al. (See Lorenz, Ernst H. J., assignor.)
- Pugatsky, Max, et al. (See Goldstein, Barnett H., assignor.)
- Pugatsky, Max, and R. D. Von Rentsch, New York, N. Y. Garment. No. 1,396,462; Nov. 8.
- Pugh, Burton H., Topeka, Kans. Windshield-shade. No. 1,367,202; Feb. 1; v. 283; p. 64.
- Pugh, Charles H., Limited. (See Bull, George F., assignor.)
- Pugh, Chester J., Ida, La. Dust and dirt cap for front-axle ends. No. 1,382,671; June 28; v. 287; p. 611.
- Pugh, Chester J., Ida, La. Dust and dirt cap. No. 1,391,692; Sept. 27; v. 290; p. 657.
- Pugh, Edward J., Trenton, assignor to Pennsylvania Salt Manufacturing Company, Wyandotte, Mich. Making basic zirconium sulfate. No. 1,371,161; Apr. 26; v. 285; p. 671.
- Pugh, Harry W., assignor to Western Electric Company, Incorporated, New York, N. Y. Folding-door structure. No. 1,396,780; Nov. 15.
- Pugh, Harry W., New York, N. Y., and J. A. Wotton, Montclair, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Adapter for telephone calling devices. No. 1,387,945; Aug. 16; v. 289; p. 517.
- Pugh, John D., Harrisburg, Pa. Coal-mining machine. No. 1,374,525; Apr. 12; v. 285; p. 263.
- Puiggari, Miguel, and N. Venezia, Buenos Aires, Argentina. Purifying and clarifying of water. No. 1,392,524; Oct. 4.
- Pullar, James, Hartford, Conn. Apparatus for removing snow. No. 1,398,042; Nov. 22.
- Pullen, Clyde C. (See Daffron, H., and Pullen.)
- Pulliam, George E., Mount Vernon, Ill. Hurdle and vaulting standard. No. 1,388,821; Aug. 23; v. 289; p. 747.
- Pulliam, Oswald S., New York, N. Y. Transmission. No. 1,371,187; Mar. 8; v. 284; p. 317.
- Pulliam, Oswald S., New York, N. Y. Rear-axle drive for motor-vehicles. No. 1,371,809; Mar. 15; v. 284; p. 502.
- Pulliam, Oswald S., New York, N. Y. Cylinder and piston construction. No. 1,379,041; May 24; v. 286; p. 690.
- Pulliam, Oswald S., New York, N. Y. Variable-speed power transmission. No. 1,388,303; Aug. 23; v. 289; p. 645.
- Pulliam, Oswald S., New York, N. Y. Antiskid device. No. 1,391,342; Sept. 20; v. 290; p. 514.
- Pulliam, Oswald S., New York, N. Y. Transmission. No. 1,391,343; Sept. 20; v. 290; p. 514.
- Pulliam, William Z., Los Angeles, Calif. Harvester and loader for beets, potatoes, &c. No. 1,399,876; Dec. 13.
- Pullman Company, The. (See Parke, Peter, assignor.)
- Pullman Company, The. (See Weaver, J. B., and Parke, assignors.)
- Pullman Couch Company. (See Davis, Fred M., assignor.)
- Pullman Manufacturing Company. (See Hughes, John, assignor.)
- Pullock, William J. (See Lester, W. G., Naeser, and Pullock.)
- Pullock, William J., Germiston, Transvaal, South Africa. Lighting-fitting. No. 1,398,278; Nov. 29.
- Pulsifer, Ernest, Salem, Mass. Water-gage safety device. No. 1,364,410; Jan. 4; v. 282; p. 70.
- Pulsometer Engineering Company. (See Fleuss, Henry A., assignor.)
- Pulverman, Isidore, Warren, Pa. Tire valve and gage. No. 1,386,074; Aug. 2; v. 289; p. 23.
- Pumphrey, Walter H., New York, N. Y. Hose-support (clasp. No. 1,380,115; May 31; v. 286; p. 967.
- Pumpless Blow Torch Company. (See Anderson, J. B., and Allen, assignors.)
- Pun, Jack M., Stockton, Calif. Shipping-refrigerator. No. 1,370,044; Mar. 1; v. 284; p. 54.



*Alphabetical list of patentees—Continued.*

- Pun, Jack M., Stockton, Calif. Portable refrigerator. No. 1,376,577; May 8; v. 286; p. 38.
- Punnett, Milton B., and R. A. Whitaker, assignors to Eastman Kodak Company, Rochester, N. Y. Producing decolorizing carbon. No. 1,383,755; July 5; v. 288; p. 103.
- Pupilla, Paul P., Bradley Beach, N. J. Sterilizer attachment. No. 1,371,810; Mar. 15; v. 284; p. 502.
- Pupilla, Paul P., New York, N. Y. Shaving-brush. No. 1,388,001; Aug. 16; v. 289; p. 528.
- Pupin, Michael I., Norfolk, Conn. Sound-generator. No. 1,399,877; Dec. 13.
- Pupin, Michael I., Norfolk, Conn., and E. H. Armstrong, Yonkers, N. Y. Multiple antenna for electrical wave transmission. No. 1,388,441; Aug. 23; v. 289; p. 674.
- Purcell, Arthur N., Corona, N. Y. Runner for wheeled vehicles. No. 1,388,757; Aug. 23; v. 289; p. 734.
- Purcell, Charles H., and L. I. Hewes, Portland, Oreg. Pavement for roads and streets. No. 1,393,699; Oct. 11.
- Purcell, Isaac S., Oak Park, Ill. Folding cot. No. 1,374,387; Apr. 12; v. 285; p. 236.
- Purcell, Isaac S., Oak Park, assignor to Tentobed Company, Chicago, Ill. Collapsible roofed cot. No. 1,374,386; Apr. 12; v. 285; p. 236.
- Purcell, Isaac S., Oak Park, assignor to Tentobed Company, Chicago, Ill. Cot. No. 1,394,578; Oct. 25.
- Purcell, Isaac S., Oak Park, assignor to Tentobed Company, Chicago, Ill. Tent. No. 1,394,579; Oct. 25.
- Purdon, James, trustee. (See Mulaney, Benjamin F., assignor.)
- Purdy, Andrew J., San Francisco, Calif. Motor-vehicle. No. 1,384,087; July 12; v. 288; p. 221.
- Purdy, Chester A., Chicago, Ill. Automatic Doughnut-machine. No. 1,369,266; Feb. 22; v. 283; p. 609.
- Purdy, Ross C., Buffalo, N. Y.; M. F. Beecher and A. A. Klein, assignors to Norton Company, Worcester, Mass. Bonded article of magnesia and alumina. No. 1,394,442; Oct. 18.
- Purdy, Simeon D., assignor of one-half to T. S. Simms & Company, Limited, Fairville, New Brunswick, Canada. Brush. No. 1,385,272; July 19; v. 288; p. 547.
- Purdy, Walter S., assignor to The Star Car & Foundry Company, Huntington, W. Va. Wheel construction. No. 1,369,541; Feb. 22; v. 283; p. 662.
- Purinton, Charles F., Burlington, Vt. Evaporating apparatus. No. 1,376,578; May 3; v. 286; p. 38.
- Puriton Manufacturing Corporation. (See Marsico, Gerard R., assignor.)
- Purnell, Robert L., Red Level, Ala. Water-pump. No. 1,389,458; Aug. 30; v. 289; p. 928.
- Purple, George E., La Grange, assignor to Flexible Steel Lacing Company, Chicago, Ill. Belt-fastener. No. 1,382,799; June 28; v. 287; p. 635.
- Purple, George E., La Grange, assignor to Flexible Steel Lacing Company, Chicago, Ill. Combined lamp-guard and handle. No. 1,382,800; June 28; v. 287; p. 635.
- Purrrington, George F., Mattapoisett, Mass. Cooking apparatus. No. 1,368,351; Feb. 15; v. 283; p. 392.
- Purtle, Albert D., Marietta, Ohio. Brass liner stuffing-box head. No. 1,394,114; Oct. 18.
- Purvis, James A., and H. A. Sessions, Traverse City, Mich. Apparatus for pulling piles or the like. No. 1,372,545; Mar. 22; v. 284; p. 699.
- Purvis, William M., Oklahoma, Okla. Railway construction. No. 1,365,848; Jan. 18; v. 282; p. 432.
- Puryear, Samuel R., Columbia, Tenn. Apparatus for separating solids from liquids. No. 1,400,980; Dec. 20.
- Pusard, Eric R., Boone, Nebr. Clutch-pedal attachment for tractors. No. 1,400,981; Dec. 20.
- Pusey, Howard C., Swarthmore, Pa. Carbureter. No. 1,378,055; May 17; v. 286; p. 430.
- Pusey, Thomas M., Kennett Square, Pa. Evaporator. No. 1,371,115; Mar. 8; v. 284; p. 303.
- Pushee, Jeremiah B., *et al.* (See Faust, Casper, assignor.)
- Putman, Frank W., Newport, R. I. Portable and collapsible article of furniture. No. 1,378,613; May 17; v. 286; p. 536.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Forming metal blanks of varying cross-sections. No. 1,372,246; Mar. 22; v. 284; p. 642.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments to Detroit Pressed Steel Company, Wilmington, Del. Vehicle-wheel. No. 1,380,925; June 7; v. 287; p. 115.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Vehicle-wheel. No. 1,380,926; June 7; v. 287; p. 115.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Securing device for demountable wheels. No. 1,384,150; July 12; v. 288; p. 234.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Demountable disk wheel. No. 1,384,405; July 12; v. 288; p. 287.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Forming axle-housings. No. 1,384,485; July 12; v. 288; p. 303.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Vehicle-wheel. No. 1,388,665; Aug. 23; v. 289; p. 716.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Manufacturing disk wheels. No. 1,395,357; Nov. 1.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Metallic vehicle-wheel. No. 1,398,738; Nov. 29.
- Putnam, Alden L., Detroit, Mich., assignor to Detroit Pressed Steel Company, Wilmington, Del. Vehicle-wheel. No. 1,398,739; Nov. 29.
- Putnam, Benjamin W., Jamaica Plain, Mass. Apparatus for treating textiles and other materials. No. 1,387,072; Aug. 9; v. 289; p. 293.
- Putnam, Delmer M., and H. M. Dunlap, Battle Creek, Mich. Air-compressor. No. 1,399,151; Dec. 6.
- Putnam, Edward J., Atlanta, Ga. Concrete car construction. No. 1,374,111; Apr. 5; v. 285; p. 142.
- Putnam, Fred A., Keene, N. H. Tractor. No. 1,389,010; Aug. 30; v. 289; p. 840.
- Putnam, Fred A., and C. F. Robbins, Keene, N. H., assignors to Markem Machine Company, Boston, Mass. Type-wheel. No. 1,376,830; May 3; v. 286; p. 85.
- Putnam, James K., Tulsa, Okla. Check-valve. No. 1,380,415; June 7; v. 287; p. 17.
- Putnam, Mark E., assignor to The Dow Chemical Company, Midland, Mich. Making cellulose esters. No. 1,396,878; Nov. 15.
- Putnam, Parker A., Tintah, Minn. Harvester. No. 1,390,813; Sept. 13; v. 290; p. 244.
- Putnam, Waldo D., Winnetka, Ill. Liquid door-closer. No. 1,383,339; July 5; v. 288; p. 17.
- Putnam, Wilber, and G. D. Longman, Thornwell, La. Grain-drier. No. 1,365,950; Jan. 18; v. 282; p. 452.
- Putnam, Wilbur, and G. D. Longman, Lake Charles, La. Grain-drier. No. 1,392,794; Oct. 4.
- Putney, Lester J., Los Angeles, Calif. Envelop. No. 1,385,493; July 26; v. 288; p. 668.
- Putt, Edward D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Apparatus for covering tire beads. No. 1,370,911; Mar. 8; v. 284; p. 264.
- Putt, James K., Hershey, Pa. Stall. No. 1,385,273; July 19; v. 288; p. 547.
- Pye, David W. (See McNally, Leo F., assignor.)
- Pyke, Robert A., Colac, Victoria, Australia. Locking device for the steering-wheels of motor-vehicles. No. 1,385,469; July 26; v. 288; p. 663.
- Pyle, Elton E., Morris, Ill. Device for guiding tractors. No. 1,387,556; Aug. 16; v. 289; p. 440.
- Pyle-National Company, The. (See Dake, Charles W., assignor.)
- Pyle National Company, The. (See Grant, Roswell D., assignor.)
- Pyle-National Company, The. (See Young, Otis W., assignor.)
- Pyle, William T., Des Moines, Iowa. Gate and latch. No. 1,369,300; Feb. 22; v. 283; p. 615.
- Pym, Charles F., Detroit, Mich., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,368,968; Feb. 15; v. 283; p. 511.
- Pym, Charles F., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting shoes. No. 1,368,969; Feb. 15; v. 283; p. 512.
- Pym, Charles F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. End-lasting mechanism. No. 1,393,396; Oct. 11.
- Pyne, William H., *et al.* (See Dyer, Nelson M., assignor.)
- Pyorr-Laris Company, The. (See Lane, Andrew T., assignor.)
- Pyper Animated Sign Company. (See Pyper, George R., assignor.)
- Pyper, George R., Salt Lake City, Utah. Sign. No. 1,382,225; June 21; v. 287; p. 471.
- Pyper, George R., Salt Lake City, Utah. Sign. No. 1,382,226; June 21; v. 287; p. 471.
- Pyper, George R., Salt Lake City, Utah. Sign. No. 1,382,227; June 21; v. 287; p. 471.
- Pyper, George R., assignor to Pyper Animated Sign Company, Salt Lake City, Utah. Animated sign. No. 1,382,228; June 21; v. 287; p. 471.
- Pyper, George R., assignor to Pyper Animated Sign Company, Salt Lake City, Utah. Animated sign. No. 1,382,229; June 21; v. 287; p. 471.
- Pyper, George R., assignor to Pyper Animated Sign Company, Salt Lake City, Utah. Animated sign. No. 1,382,230; June 21; v. 287; p. 472.
- Pyper, George R., assignor to Pyper Animated Sign Company, Salt Lake City, Utah. Animated sign. No. 1,382,231; June 21; v. 287; p. 472.
- Pyper, George R., assignor to Pyper Animated Sign Company, Salt Lake City, Utah. Animated sign. No. 1,382,232; June 21; v. 287; p. 472.
- Pyper, George R., assignor to Pyper Animated Sign Company, Salt Lake City, Utah. Animated sign. No. 1,382,233; June 21; v. 287; p. 472.
- Pyrene Manufacturing Company. (See Eckelmann, L. E., and Ferguson, assignors.)



*Alphabetical list of patentees—Continued.*

- Pyrene Manufacturing Company. (See Ferguson, George E., assignor.)
- Pyrene Manufacturing Company. (See MacGregor, Peter G., assignor.)
- Pyroelectric Instrument Co. (See Northrup, Edwin F., assignor.)
- Pyroelectric Instrument Co. (See Porter, Harry F., assignor.)
- Pyron, Frank, New York, N. Y. Bit and drill guide. No. 1,385,227; July 19; v. 288; p. 538.
- Pytlak, Stanley, McMechen, W. Va. Wall-papering machine. No. 1,395,519; Nov. 1.
- Pyzel, Daniel, Oakland, Calif. Rerun-still. No. 1,383,024; June 28; v. 287; p. 678.
- Q & C Company. (See McComb, Richard J., assignor.)
- Quaglia, Giovanni, and Arrigo Capello, Turin, Italy, assignor to Ch. Henri E. Wetzels, Paris, France. Wire connection. No. 1,381,741; June 14; v. 287; p. 321.
- Quagliano, Vito A., East Boston, Mass. Headlight for vehicles. No. 1,388,891; Aug. 30; v. 289; p. 815.
- Quaid, George H., Los Angeles, Calif. Sash-weight. No. 1,401,441; Dec. 27.
- Quaint Manufacturing Company, The. (See Quaintance, Ellsworth E., assignor.)
- Quaintance, Ellsworth E., assignor to The Quaint Manufacturing Company, Denver, Colo. Permutation-lock for safes. No. 1,376,638; May 3; v. 286; p. 49.
- Quaintance, Ellsworth E., assignor to The Quaint Manufacturing Company, Denver, Colo. Permutation-padlock. No. 1,376,639; May 3; v. 286; p. 49.
- Quaker Oats Company, The. (See Bourdeau, J. D., and Fink, assignors.)
- Quality Glass Company. (See Ryon, Edward A. and A. T., assignors.)
- Quality Hardware & Machine Company. (See Heckenbach, Joseph, assignor.)
- Quality Silk Mills. (See Horn, W., and Hagan.)
- Qualman, George, Toledo, Ohio. Vacuum-cleaner attachment. No. 1,376,971; May 3; v. 286; p. 113.
- Qualmann, Paul H., Milwaukee, Wis. Self-filling fountain-pen. No. 1,381,332; June 14; v. 287; p. 244.
- Quarfoot, Carl B., Chicago, Ill. Direction-indicator for automobiles. No. 1,374,470; Apr. 12; v. 285; p. 252.
- Quartius, William, Vicksburg, Miss. Luminous lure for animal-traps. No. 1,399,518; Dec. 6.
- Quarles, Charles H., assignor, by mesne assignments, to American Automatic Train Control Corporation, Charlottesville, Va. Support for contact-shoes. No. 1,391,502; Sept. 20; v. 290; p. 546.
- Quarmby, Jonathan I., and E. J. and S. R. Ewing, Lansing, Mich. Hot-air furnace. No. 1,384,635; July 12; v. 288; p. 335.
- Quartana, Peter J., Milwaukee, Wis. Fender attachment for automobiles. No. 1,397,903; Nov. 22.
- Quasi-Arc Company, Limited. (See Cole, William L., assignor.)
- Quass, Ralph L., Hawthorne, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric signaling system. No. 1,394,642; Oct. 25.
- Quattlander, Albert T., Astoria, N. Y. Liquid gloss for polished surfaces. No. 1,376,038; Apr. 26; v. 285; p. 647.
- Quehl, Richard G., assignor to The Strong-Scott Manufacturing Company, Minneapolis, Minn. Grate for elevator-dump pits. No. 1,383,151; June 28; v. 287; p. 702.
- Quelle, Ralph J. (See Kuhlmeier, F. J., and Quelle.)
- Quelms, Harry, Catskill, N. Y. Screw-conveyer drive-clamp. No. 1,371,116; Mar. 8; v. 284; p. 304.
- Quet, Francois, Nice, France. Portable lifting apparatus. No. 1,380,591; June 7; v. 287; p. 50.
- Quick Action Ignition Company. (See Oglesby, Richard A., assignor.)
- Quick, Alfred A., Melbourne, Victoria, Australia. Device for haulage or straining purposes. No. 1,381,011; June 7; v. 287; p. 132.
- Quick, Charles F., Dallas, Tex. Elevator-controlling device. No. 1,390,721; Sept. 13; v. 290; p. 325.
- Quick, Elroy L., *et al.* (See Erik, Emil, assignor.)
- Quick-McLain Machine Gun Company, The. (See McLain, R. M., and Quick, assignors.)
- Quick, Miles W., Titusville, Pa. Method and apparatus for operating oil-wells. No. 1,369,049; Feb. 22; v. 283; p. 567.
- Quick, Miles W., Titusville, Pa. Cocking-valve. No. 1,367,050; Feb. 22; v. 283; p. 568.
- Quick, Robert T., Pamplico, S. C. Portable veneer-rack. No. 1,397,328; Nov. 15.
- Quick, William M. (See McLain, R. M., and Quick.)
- Quicksafe Manufacturing Company. (See Waller, Robert H., assignor.)
- Quiggan, John P., Brooklyn, N. Y. Printing appliance. No. 1,379,936; May 31; v. 286; p. 933.
- Quigley, Furnace Specialties Co. (See Kimber, Harry A., assignor.)
- Quigley Furnace Specialties Co. (See Renkin, William O., assignor.)
- Quigley, George E., Yorba Linda, Calif. Irrigating device. No. 1,389,319; Aug. 30; v. 289; p. 901.
- Quigley, John T., assignor to Costmeter Company, Boston, Mass. Perforating-machine. No. 1,373,760; Apr. 5; v. 285; p. 73.
- Quigley, John T., assignor to Costmeter Company, Boston, Mass. Filing and indexing equipment. No. 1,385,148; July 19; v. 288; p. 523.
- Quigley, John T., assignor to Costmeter Company, Boston, Mass. Filing and indexing equipment. No. 1,387,010; Aug. 9; v. 289; p. 280.
- Quigley, John T., assignor to Costmeter Company, Boston, Mass. Filing and indexing equipment. No. 1,387,310; Aug. 9; v. 289; p. 339.
- Quigley, Patrick H., Winnett, Mont. Apparatus for storage of compressed air. No. 1,376,359; Apr. 26; v. 285; p. 709.
- Quijano, Ramon, San Antonio, Tex. Liberating the fibers of the agave and similar fleshy plants. No. 1,368,750; Feb. 15; v. 283; p. 470.
- Quill, Charles J., San Francisco, Calif., assignor of one-half to W. M. Filben, St. Paul, Minn. Alternating-current rectifier. No. 1,395,520; Nov. 1.
- Quill, Charles J., San Francisco, Calif., assignor of one-half to W. M. Filben, St. Paul, Minn. Alternating-current rectifier. No. 1,395,521; Nov. 1.
- Quimby, George R., and H. F. Parker, Bondsville, Mass. Belt-shipper. No. 1,394,352; Oct. 18.
- Quinan, Kenneth B., Somerset West, Cape Province, South Africa. Dust-collecting device. No. 1,370,484; Mar. 1; v. 284; p. 138.
- Quinby, Henry R., Maricopa, assignor to Petroleum Rectifying Company, San Francisco, Calif. Dehydrator for petroleum oils. No. 1,382,234; June 21; v. 287; p. 472.
- Quincy Show Case Works, The. (See Fifer, William A., assignor.)
- Quinker, Edward E., Valdosta, Ga. Protector for the heating-pipes of retorts. No. 1,383,424; July 5; v. 288; p. 35.
- Quinker, Edwin E., Valdosta, Ga. Retort. No. 1,385,470; July 26; v. 288; p. 664.
- Quinlan, Philip P., *et al.* (See Heaton, John T., assignor.)
- Quinn, Charles H., Roanoke, Va. Car-axle-driven dynamo. No. 1,376,901; May 3; v. 286; p. 100.
- Quinn, Charles H., Roanoke, Va. Tensioning device for axle-driven generators. No. 1,376,902; May 3; v. 286; p. 100.
- Quinn, Cornelius, Denver, Colo. Jar-opener. No. 1,389,011; Aug. 30; v. 289; p. 840.
- Quinn, Ellen F., Corona, N. Y. Reversible heel. No. 1,400,182; Dec. 13.
- Quinn, Elmer, Philadelphia, Pa. Tire-vice. No. 1,395,296; Nov. 1.
- Quinn, James J., Chester, Pa. Game-board attachment. No. 1,377,364; May 10; v. 286; p. 245.
- Quinn, Joseph J., Philadelphia, assignor to Consolidated Expanded Metal Companies, Braddock, Pa. Floor-socket. No. 1,386,947; Aug. 9; v. 289; p. 267.
- Quinn, Thomas, Huntington, W. Va. Extension-rail. No. 1,392,353; Oct. 4.
- Quinn, William J., Westgrove, Pa. Lifting device. No. 1,378,900; May 24; v. 286; p. 664.
- Quint, Michael, Hays, Kans. Socket - wrench. No. 1,392,220; Sept. 27; v. 290; p. 764.
- Quint, Peter M., Hays, Kans. Chain - tightener. No. 1,392,221; Sept. 27; v. 290; p. 764.
- Quinton, Osborne E., Chicago, Ill. Valve-operating mechanism for vapor-burners. No. 1,391,976; Sept. 27; v. 290; p. 715.
- Quirk, Edward W. (See Hamilton, J. W. C., and Quirk.)
- Quirk, Michael W., Milwaukee, Wis. Bottle or other receptacle receiving crate. No. 1,368,290; Feb. 15; v. 283; p. 380.
- Quiroz, Francisco A., Mexico, Mexico. Oil-burner. No. 1,394,115; Oct. 18.
- Quist, Fred, Firebaugh, Calif. Tie-plate. No. 1,377,524; May 10; v. 286; p. 275.
- Qupece Hose Supporter Company. (See Lindquist, Charles A. and E. V., assignors.)
- Qupece Hose Supporter Company. (See Lindquist, Erick V., assignor.)
- R. D. R. Manufacturing Co. (See Ruebsamen, A., and Dennis, assignor.)
- R. E. D. Engine Company. (See Ford, Eugene A., assignor.)
- R. F. L. Tool and Die Company. (See Rother, Walter, assignor.)
- R. & G. Company. (See Anderson, Edward L., and L. A., assignors.)
- R. H. S. Motors, Incorporated. (See Stewart, Robert H., assignor.)
- R. K. Le Blond Machine Tool Company, The. (See Groene, William F., assignor.)
- R. K. Le Blond Machine Tool Company, The. (See Pierle, Henry C., assignor.)
- R. & W. Hawthorn, Leslie & Company. (See Gray, John, assignor.)
- Raab, Herman, New York, N. Y. Lock. No. 1,389,380; Aug. 30; v. 289; p. 913.
- Raabe, Otto L., Jersey City, N. J., assignor to R. Hoe and Co., New York, N. Y. Inking mechanism for printing-machines. No. 1,396,055; Nov. 8.
- Raabe, Otto L., Jersey City, N. J., assignor to R. Hoe and Co., New York, N. Y. Impression-adjusting and blanket-ironing device. No. 1,396,056; Nov. 8.
- Rabb, William S., St. Paul, Minn. Control for aeroplanes. No. 1,387,513; Aug. 16; v. 289; p. 431.



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- Rabe, Paul B., Chicago, Ill., assignor, by mesne assignments to O-K Giant Battery Corporation, Gary, Ind. Making grid-plates. No. 1,369,353; Feb. 22; v. 283; p. 626.
- Rabezana, Hector, assignor of one-half to A. A. Carlson, Flint, Mich. Washing-machine. No. 1,376,227; Apr. 26; v. 285; p. 684.
- Rabin, Samuel, New York, and J. M. Lang, Yonkers, N. Y. Beater and mixer. No. 1,373,761; Apr. 5; v. 285; p. 73.
- Rabinowitz, Henry, New York, N. Y. Means for locking window-sashes in position. No. 1,397,935; Nov. 22.
- Rabuzzo, Salvatore, assignor to A. Lupinacci, Philadelphia, Pa. Shutter for accordions. No. 1,377,093; May 3; v. 286; p. 126.
- Rabushka, Samuel, St. Louis, Mo. Heel. No. 1,364,494; Jan. 4; v. 282; p. 87.
- Racaza, Vincent A., Cebu, Philippine Islands. Electric retoucher. No. 1,685,887; July 26; v. 288; p. 748.
- Race, Frank S., and A. P. Cunningham, Dallas, Tex. Poultry-killer. No. 1,389,784; Sept. 6; v. 290; p. 45.
- Racer, Roscoe C., Richmond, Va. Disk wheel for vehicles. No. 1,382,672; June 28; v. 287; p. 611.
- Rachlin, Max, New York, N. Y. Sash-holder. No. 1,387,904; Aug. 16; v. 289; p. 509.
- Rachlin, Max, New York, assignor to Patented Metalware Corporation, Brooklyn, N. Y. Gutter-hanger. No. 1,392,966; Oct. 11.
- Rachlin, Max, New York, assignor to Patented Metalware Corporation, Brooklyn, N. Y. Gutter-hanger. No. 1,397,328; Nov. 15.
- Rachlin, Max, New York, N. Y., assignor of one-half to S. M. Gold. Window provision-box. No. 1,401,816; Dec. 27.
- Rachwal, Piotr S., Depew, N. Y. Railway-tie. No. 1,373,831; Apr. 5; v. 285; p. 88.
- Racine Accessories Manufacturing Co. (See De Tamble, Edward S., assignor.)
- Racine, Arthur, Montreal, Quebec, Canada. Car-replacing apparatus. No. 1,378,132; May 17; v. 286; p. 445.
- Racine Phonograph Company. (See Blandin, Frederick F., assignor.)
- Racine Tool & Machine Co. (See Reinhardt, W. C., and Banker, assignors.)
- Rackham, George J., Putney, London, England. Governor-actuated valve. No. 1,367,326; Feb. 1; v. 283; p. 88.
- Rackham, George J., Putney, London, England. Means of suspension of vehicles. No. 1,379,836; May 31; v. 286; p. 914.
- Racktenwald, John, assignor of one-sixth to W. Meyer, one-sixth to William F. Segelhorst, and one-sixth to W. C. Steinman, Venedy, Ill. Electric signaling system. No. 1,381,121; June 21; v. 287; p. 452.
- Racz, Frank, Coatesville, Pa. Extinguishing attachment for lamp-burners. No. 1,369,126; Feb. 22; v. 283; p. 582.
- Racz, Frank, Coatesville, Pa. Combination cigarette holder and lighter. No. 1,373,262; Mar. 29; v. 284; p. 882.
- Raddant, Walter C., Pittsburgh, assignor to Domestic Refrigerating Co., Coraopolis, Pa. Refrigerating-machine. No. 1,390,161; Sept. 6; v. 290; p. 121.
- Raddick, David J., assignor of one-half to Siegfried Graf, San Francisco, Calif. Wheel-lock. No. 1,394,219; Oct. 18.
- Radebaugh, Randolph F. (See Christensen, Mogens C., assignor.)
- Radeleff, Francis H., West Alhambra, Calif. Direction-indicator for automobiles. No. 1,401,187; Dec. 27.
- Rademacher, Frank, Ontario, Calif. Nut-gatherer. No. 1,378,275; May 17; v. 286; p. 472.
- Radet, Léon, Paris, France. Apparatus for controlling the gas-supply, igniting, and extinguishing gas-burners. No. 1,380,592; June 7; v. 287; p. 51.
- Radey, Joseph F., Cato, Wis. Pumping attachment. No. 1,389,783; Sept. 6; v. 290; p. 45.
- Radford, William A., Chicago, Ill. Book. No. 1,371,439; Mar. 15; v. 284; p. 430.
- Radford, William F., Boston, Mass. Reversible socket-wrench. No. 1,372,453; Mar. 22; v. 284; p. 681.
- Radiatone Photo Co. (See Snow, Philo V., assignor.) (Reissue.)
- Radimak, Steven, New York, N. Y. Tree-sawing machine. No. 1,399,274; Dec. 6.
- Radin, Alexander, New York, N. Y. Necktie-holder. No. 1,388,304; Aug. 23; v. 289; p. 645.
- Radio Corporation of America. (See Farrand, Clair L., assignor.)
- Radio Corporation of America. (See Franklin, Charles S., assignor.) (Reissue.)
- Radio Corporation of America. (See Gill, Ernest W. B., assignor.)
- Radio Corporation of America. (See Round, H. J., and Ditcham, assignors.)
- Radio Corporation of America. (See Round, Henry J., assignor.)
- Radio Corporation of America. (See Shoenberg, Isaac, assignor.)
- Radio Corporation of America. (See Weagant, Roy A., assignor.)
- Radio Corporation of America. (See Wright, George M., assignor.)
- Radisson, Augustin, and Berthon; said Radisson assignor of his right to Societe De Stearinerie et Savonnerie De Lyon, Lyon, France. Producing catalytic agents for reduction or hydrogenation purposes. No. 1,377,158; May 3; v. 286; p. 148.
- Radium Dial Company. (See Fordyce, Rufus G., assignor.)
- Radium Diahil Company. (See Ganley, William, assignor.)
- Radium Luminous Material Corporation. (See Hamlin, Allen L., assignor.)
- Radium Luminous Material Corporation. (See Willis, Paul M., assignor.)
- Radley, Bernice, Peoria, Ill. Convertible hat. No. 1,385,494; July 26; v. 288; p. 669.
- Radioff, Edward, and H. H. Stokes, assignors to Chicago Manufacturing Company, Chicago, Ill. Automobile-radiator. No. 1,368,197; Feb. 8; v. 283; p. 314.
- Radočaj, Paul, et al. (See Libenschek, Rudolf, assignor.)
- Rae, Frank B. (See Eastman, H. L., and Rae.)
- Rae, Frank B., Cleveland, Ohio. Electric-motor generator for starting and lighting gasoline-automobiles. No. 1,375,319; Apr. 19; v. 285; p. 478.
- Rae, Henry F., Cumbrae, England. Propeller. No. 1,366,836; Jan. 25; v. 282; p. 670.
- Rae, William C. (See Van Sandt, R., and Williams, assignors.)
- Raeburn, William, Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y. Thumb-tack and producing the same. No. 1,380,738; June 7; v. 287; p. 79.
- Rafsky, Harold R., Lawrence, Mass. Coated paper. No. 1,374,112; Apr. 5; v. 285; p. 142.
- Rafn, Robert, Moss, Norway. Treating viscous liquids. No. 1,368,291; Feb. 15; v. 283; p. 380.
- Ragan, Edward M. (See Kent, Burton M., assignor.) (Reissue.)
- Rager, Glenn N., near Roann, Ind. Compressing mechanism. No. 1,394,580; Oct. 25.
- Ragon, Robert L., et al. (See Hubble, Joe H., assignor.)
- Ragona, Vincent. (See Cary, S. C., and Ragona.)
- Ragona, Vincent, assignor, by mesne assignments, to Cary Manufacturing Company, Brooklyn, N. Y. Band-tightener. No. 1,367,094; Feb. 1; v. 283; p. 42.
- Ragonot, Edmond L. M. (See Colas, J. E., and Ragonot.)
- Ragsdale, Charles R., St. Louis, Mo. Six-stream distributing attachment for soda-water draft-arms. No. 1,374,767; Apr. 12; v. 285; p. 309.
- Ragsdale, Earl J. W., U. S. Army, assignor to Secretary of War, trustee for Government of United States of America. Impact-fuse. No. 1,375,466; Apr. 19; v. 285; p. 506.
- Raguse, Ernest H., Summit, Ill. Flagpole. No. 1,383,234; June 28; v. 287; p. 717.
- Rahm, Edwin M. (See Nachand, C. V., and Rahm.)
- Rahmeyer, Franz P., Hampton, Nebr. Rotary-valve motor. No. 1,388,758; Aug. 23; v. 289; p. 759.
- Rahr, Chester E. (See Heppes, O. A., and Rahr.)
- Rahr, Chester E. (See Overbury, F. C., and Rahr.)
- Rahr, Chester E., Brookline, Mass., and C. Russell, Penn Yan, N. Y. Prepared roofing-shingle. No. 1,389,979; Sept. 6; v. 290; p. 85.
- Raich, John B., Gary, assignor of one-half to J. A. Baumgartner, South Bend, Ind. Meat-cutting machine. No. 1,398,571; Nov. 29.
- Raiche, Denis M., Kankakee, Ill. Hydrotemperature-control system for bath and laving purposes. No. 1,381,012; June 7; v. 287; p. 132.
- Raiche, Paul A., assignor to Davol Rubber Company, Providence, R. I. Machine for forming nipples. No. 1,389,219; Aug. 30; v. 289; p. 880.
- Raichlen, C. Frederick. (See Schmidt, Henrik J., assignor.)
- Raley, Frank W., Modesto, Calif. Sawdust soap. No. 1,387,804; Aug. 16; v. 289; p. 490.
- Rail Joint Company, The. (See Braine, Bancroft G., assignor.)
- Rail Joint Company, The. (See Disbrow, Clarkson A., assignor.)
- Rail Joint Company, The. (See Schermerhorn, E. F., and Thomson, assignors.)
- Rail Joint Company, The. (See Thomson, William P., assignor.)
- Rail Joint Company, The. (See Whiteman, George W., assignor.)
- Rail Joint Company, The. (See Wolhaupter, Benjamin, assignor.)
- Railway Signal & Equipment Company, The. (See Stotts, Flza S., assignor.)
- Railway Utility Company. (See Hartwig, William G., assignor.)
- Rainey, Horace, Fort Branch, Ind. Coal-tipple. No. 1,378,276; May 17; v. 286; p. 276.
- Rainey, Paul M., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing-telegraph system. No. 1,367,717; Feb. 8; v. 283; p. 223.
- Rainey, Paul M., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic device. No. 1,373,019; Mar. 29; v. 284; p. 834.
- Rainey, Paul M., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Distributing apparatus. No. 1,375,728; Apr. 26; v. 285; p. 588.



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- Rainey, Paul M., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Printing-telegraph system. No. 1,380,679; June 7; v. 287; p. 67.
- Rainey, Paul M., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,399,997; Dec. 13.
- Rainey, Paul M., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,400,493; Dec. 13.
- Rainey, Paul M., Glen Ridge, and A. D. Dowd, Hoboken, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,378,978; May 24; v. 286; p. 678.
- Rainey, William D., Wilton, Ark. Chopper-head for cotton-cutting machines. No. 1,365,342; Jan. 11; v. 282; p. 293.
- Rainfletten, August H. (See Oponiak, S., and Rainfletten.)
- Rainke, Charles W., Brooklyn, N. Y. Illuminated reflecting-sign. No. 1,390,459; Sept. 13; v. 290; p. 271.
- Rainsford, Clarence F. (See McLeod, N. J., and Rainsford.)
- Rainsford, Clarence F., Parkside, South Australia, Australia. Collapsible crate or packing-case. No. 1,381,013; June 7; v. 287; p. 133.
- Rainville, Omer J. (See Lareau, L. N., and Rainville.)
- Raisbeck, Frank, assignor to Deere & Company, Moline, Ill. Fertilizer-spreader. No. 1,368,053; Feb. 8; v. 283; p. 286.
- Raiziss, George W. (See Schamberg, J. F., Raiziss, and Kolmer.)
- Raje, Thor, Los Angeles, Calif. Talking-machine. No. 1,378,133; May 17; v. 286; p. 445.
- Raker, Michael. (See Watchorn, H. L. J., Roberts, and Raker.)
- Raleigh, James F., Chicago, Ill., assignor to Pines Manufacturing Company. Shutter apparatus for radiators. No. 1,393,161; Oct. 11.
- Raleigh Savings Bank and Trust Company, The, executor. (See Jolly, Benjamin R.)
- Raley, Walter J., Milwaukee, Wis. Device for repairing inner tubes. No. 1,391,209; Sept. 20; v. 290; p. 486.
- Ralicki, Henry J. (See Wonsowicz, George, assignor.)
- Rally, Pierre A., Tucson, Ariz. Automobile-polish. No. 1,376,228; Apr. 26; v. 285; p. 684.
- Raloff, A. G., et al. (See Raloff, Adolph J., assignor.)
- Raloff, Adolph, Jr., assignor of two-fifths to T. H. Wegmann and one-fifth to A. G. Raloff, Thiensville, Wis. Piston-ring-compressing tool. No. 1,383,152; June 28; v. 287; p. 702.
- Ralph, Walter M. (See Derick, C. G., Ralph, and Flett.)
- Ralph, Walter M., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Disazo dye. No. 1,371,979; Mar. 15; v. 284; p. 534.
- Ralph, Walter M., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Disazo dye. (Re-issue.) No. 15,182; Aug. 23; v. 289; p. 750.
- Ralston, Henry J., San Francisco, Calif. Trailer-steering device. No. 1,381,742; June 14; v. 287; p. 222.
- Ralston, Oliver C. (See Udy, M. J., and Ralston.)
- Ralston, Oliver C., Niagara Falls, N. Y. Treating brass-scrap. No. 1,375,930; Apr. 26; v. 285; p. 625.
- Ralston, Oliver C., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Making anhydrous antimony trichloride. No. 1,384,918; July 19; v. 288; p. 474.
- Ralston Steel Car Company, The. (See Cowgill, Frank M., assignor.)
- Ralston, William S., assignor to The Chaplin-Fulton Manufacturing Company, Pittsburgh, Pa. Valve. No. 1,398,151; Nov. 22.
- Ramage, Alexander S., assignor to Bostaph Engineering Corporation, Detroit, Mich. Producing aromatic hydrocarbons. No. 1,365,849; Jan. 18; v. 282; p. 432.
- Ramage, John P., Liberton, Scotland. Envelop-making machine. No. 1,393,162; Oct. 11.
- Rambush, Niels E. (See Lynn, A. H. Riley, and Rambush.)
- Rammelsberg, Karl, Cassel, Germany. Recording-stylus. No. 1,373,635; Apr. 5; v. 285; p. 49.
- Ramo Manufacturing Company, The. (See McCarthy, Edward F., assignor.)
- Ramon, Zaragoza G., Amarillo, Tex. Polish-box opener. No. 1,381,743; June 14; v. 287; p. 322.
- Ramos, Rafael, and A. de Cárdenas, Colonia, "La Caoba," Aguada de Pasajeros, Santa Clara, Cuba. Plowing-machine. No. 1,367,755; Feb. 8; v. 283; p. 230.
- Ramp Buildings Corporation. (See d'Humy, Fernand E., assignor.)
- Ramsaur, Thomas A., Fayetteville, N. C. Glare-shield. No. 1,390,384; Sept. 13; v. 290; p. 257.
- Ramsay, John C., Baltimore, Md. Oven attachment. No. 1,398,152; Nov. 22.
- Ramsburg, Charles J., Pittsburgh, Pa., assignor to The Koppers Company. Apparatus and process for purifying gases. No. 1,389,980; Sept. 6; v. 290; p. 85.
- Ramsdell, Earle, Cleveland, Ohio. Tire-casing inspecting apparatus. No. 1,376,579; May 3; v. 286; p. 38.
- Ramsdell, Frederick M., Worcester, Mass. Hand-tool. No. 1,382,932; June 28; v. 287; p. 660.
- Ramsdell, Lyndon O., Danvers, assignor to The Turner Tanning Machinery Company, Peabody, Mass. Leather-working machine. No. 1,377,434; May 10; v. 286; p. 258.
- Ramsey, Allan, Chicago, Ill. Caster. No. 1,367,922; Feb. 8; v. 283; p. 262.
- Ramsey, Brint N., Lake City, Colo. Vehicle-wheel. No. 1,371,980; Mar. 15; v. 284; p. 534.
- Ramsey, Charles O., et al. (See Mullins, John C., Jr., assignor.)
- Ramsey, Clifford H., Glen Rock, N. J. Speed-changing unit. No. 1,393,906; Oct. 18.
- Ramsey, George, Washington, D. C. Moving-picture camera. No. 1,388,892; Aug. 30; v. 289; p. 815.
- Ramsey, George, Brooklyn, N. Y., assignor to M. V. O'Leary, Montreal, Quebec, Canada. Vibration-motor. No. 1,379,212; May 24; v. 286; p. 722.
- Ramsey, George, assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Sinuous-bead friction-seal. No. 1,386,729; Aug. 9; v. 289; p. 223.
- Ramsey, James D., Tishomingo, Miss. Cotton-scraper. No. 1,400,982; Dec. 20.
- Ramsey, John N., Kansas City, Mo. Adjustable chute and end-gate. No. 1,364,581; Jan. 4; v. 282; p. 103.
- Ramsey, Milton W. (See Campbell, E. W., and Ramsey.)
- Ramspring Bumper Company. (See Baumgartl, Leroy, assignor.)
- Rand, Charles A. A., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Tongue-truck. No. 1,367,518; Feb. 1; v. 283; p. 126.
- Rand, Charles A. A., Chicago, Ill., assignor to International Harvester Company. Safety-lock for levers. No. 1,400,909; Dec. 20.
- Rand, James H., Jr., Tonawanda, N. Y. Card-index or reference device. No. 1,367,327; Feb. 1; v. 283; p. 88.
- Rand, James H., Jr., Tonawanda, N. Y. Index. No. 1,386,203; Aug. 2; v. 289; p. 48.
- Rand, James H., Jr., Tonawanda, N. Y. Card-index system. No. 1,397,982; Nov. 22.
- Rand, James H., North Tonawanda, N. Y. Labeling device. No. 1,401,280; Dec. 27.
- Randall, A. L. Co. (See Galavan, Edward, assignor.)
- Randall, Anna L., executrix. (See Randall, Horatio C.)
- Randall, Charles F., Chicago, Ill. Dumping device. No. 1,392,448; Oct. 4.
- Randall, Chester J., Naugatuck, Conn., assignor to The Goodyear's Metallic Rubber Shoe Company. Solidifying carbon and similar materials. No. 1,384,089; July 12; v. 288; p. 221.
- Randall, Chester J., and R. R. Taylor, Naugatuck, Conn., assignors to The Goodyear's Metallic Rubber Shoe Company. Apparatus for compacting pulverulent material. No. 1,372,190; Mar. 22; v. 284; p. 630.
- Randall, Clifford R., Council Bluffs, Iowa. Automatic cash-drawer. No. 1,389,981; Sept. 6; v. 290; p. 85.
- Randall, Delle E., San Francisco, Calif. Airplane. No. 1,369,468; Feb. 22; v. 283; p. 648.
- Randall, Horatio C., deceased; A. L. Randall, San Francisco, Calif., executrix. Hydraulic-elevator-control system. No. 1,372,191; Mar. 22; v. 284; p. 631.
- Randall, Howard D., assignor to The J. D. Randall Company, Cincinnati, Ohio. Covered finishing-molding. No. 1,381,885; June 14; v. 287; p. 349.
- Randall, J. D., Company. (See Randall, Howard D., assignor.)
- Randall, Richard H., and A. Leighton, Brockton, Mass. Resilient yoke connection. No. 1,395,871; Nov. 1.
- Randall, Richard H., assignor of one-half to A. E. Gooch, Brockton, Mass. Actuating means for fuel-injector plungers. No. 1,390,541; Sept. 13; v. 290; p. 289.
- Randall, Victor E., assignor of one-half to W. Clemence, Battle Creek, Mich. Toy. No. 1,380,836; June 7; v. 287; p. 98.
- Randall, Victor E., assignor to S. A. Miller, Battle Creek, Mich. Vending-machine. No. 1,381,135; June 14; v. 287; p. 208.
- Randazzo, Lillian, Ranger, Tex. Door-hook. No. 1,388,970; Aug. 30; v. 289; p. 831.
- Randel, Frank L., New York, N. Y. Sulfated oil. No. 1,374,607; Apr. 12; v. 285; p. 279.
- Randle, Joe R., Columbus, Miss. Belt. No. 1,399,654; Dec. 6.
- Randleman, Harry R., assignor of one-half to A. L. Saylor, Long Beach, Calif. Valve-spring compressor. No. 1,371,643; Mar. 15; v. 284; p. 470.
- Randies, George E., Cleveland Heights, assignor to The Foote-Burt Company, Cleveland, Ohio. Multiple-spindle machine-tool. No. 1,396,781; Nov. 15.
- Randolph, Thomas, Butte, Mont. Player-piano. No. 1,366,277; Jan. 18; v. 282; p. 516.
- Raney, James L., Cleveland, Ohio. Vehicle-wheel lock. No. 1,376,114; Apr. 26; v. 285; p. 662.
- Range, Arthur H., Portland, Ore. Crab-meat-extracting apparatus. No. 1,385,951; July 26; v. 288; p. 760.
- Ranger, Roy A., Charlevoix, Mich. Apparatus for raising sunken logs. No. 1,381,333; June 14; v. 287; p. 244.
- Ranken, Francis, London, England. Bomb-release gear. No. 1,367,095; Feb. 1; v. 283; p. 42.
- Ranken, Francis, Kingsway, London, England. Bomb. No. 1,395,769; Nov. 1.
- Rankin, Carl H., Wellsburg, assignor of one-half to C. H. Blumenauer, Wheeling, W. Va. Valve-actuating mechanism. No. 1,265,541; Jan. 11; v. 282; p. 332.
- Rankin, Harry D., Oakland, assignor of seven-tenths to L. Sloss, San Francisco, Calif. Digesting apparatus. No. 1,364,803; Jan. 4; v. 282; p. 146.



*Alphabetical list of patentees—Continued.*

- Rankin, Harry D., Oakland, assignor of seven-tenths to L. Sloss, San Francisco, Calif. Decomposing, transposing, dissolving, or rendering soluble difficultly-soluble bodies. No. 1,361,804; Jan. 4; v. 282; p. 146.
- Rankin, Harry D., San Francisco, Calif., assignor to Corrosion Extraction Company. Decomposing, transposing, dissolving, or rendering soluble difficultly-soluble bodies. No. 1,378,485; May 17; v. 286; p. 511.
- Rankin, Robert, Leamington Spa, England. Electric generator and motor. No. 1,393,038; Oct. 11.
- Ransier, C. E. (See Tabor, Robert B., assignor.)
- Ransom, George H., Northfield, Birmingham, England. Adjustable pivot-bearing. No. 1,393,965; Oct. 18.
- Ransom & Randolph Company, The. (See Moore, Thomas E., assignor.)
- Ransom, Rastus S., Jr., Newark, N. J. Hydraulic jig-separator. No. 1,400,910; Dec. 20.
- Ransome Concrete Machinery Company. (See Elchelberger, Lewis H., assignor.)
- Ransome Concrete Machinery Company. (See Faber, John L., assignor.)
- Ranz, Jacob, St. Louis, Mo. Knife-sharpener. No. 1,381,334; June 14; v. 287; p. 244.
- Rao Manufacturing Company. (See Tornso, Gustaf E., assignor.)
- Rapelje, Adrian C., Harrisburg, Pa. Concrete tie. No. 1,376,580; May 3; v. 286; p. 38.
- Rapelje, Harry A., Edgewood Park, Pa. Ironing implement. No. 1,379,721; May 31; v. 286; p. 893.
- Rapeport, William H., Philadelphia, Pa. Supporting attachment for automobile-fenders. No. 1,366,934; Feb. 1; v. 283; p. 11.
- Rapid Roller Co. (See Kutner, Solomon, assignor.)
- Rapizzi, Gaetano, Parabiago, Italy. Electric folding and curling iron. No. 1,388,759; Aug. 23; v. 289; p. 734.
- Rapp, Adolph P., New York, N. Y. Chewing-gum or chewing-gum substitutes. No. 1,397,742; Nov. 22.
- Rapp, Alphonse, Brooklyn, N. Y. Pulley. No. 1,365,951; Jan. 18; v. 282; p. 453.
- Rapp, Axel G. J., assignor to Link-Belt Company, Chicago, Ill. Hutch-valve. No. 1,391,403; Sept. 20; v. 290; p. 526.
- Rapp, Axel G. J., Chicago, Ill., and L. M. Ewell, Pittsburgh, Pa., assignors to Link Belt Company. Hutch-valve-operating mechanism. No. 1,395,009; Oct. 25.
- Rapp, Fred, West Albany, N. Y. Support for signal-lamp brackets. No. 1,397,843; Nov. 22.
- Rapp, Frederick M. (See Duckworth, John T., assignor.)
- Rapp, John W., Flushing, and J. Vanorio, Brooklyn, N. Y.; said Vanorio assignor to said Rapp. Tensioned frame. No. 1,381,659; June 14; v. 287; p. 305.
- Rapp, John W., Flushing, and J. Vanorio, Brooklyn, N. Y.; said Vanorio assignor to said Rapp. Airplane-rib construction. No. 1,397,701; Nov. 22.
- Rapson, Fred L., Liverpool, England. Antifriction nut and screw gearing. No. 1,367,499; Feb. 1; v. 283; p. 123.
- Rapson, Frederick L., Liverpool, England. Lifting-jack. No. 1,387,905; Aug. 16; v. 289; p. 509.
- Rapson, Frederick L., Liverpool, England. Lifting-jack for motor and other vehicles. No. 1,398,279; Nov. 29.
- Rapson, Frederick L., Liverpool, England. Self-starting device for internal-combustion engines. No. 1,398,796; Nov. 29.
- Rapson, Frederick L., Liverpool, England. Ignition sparking plug for internal-combustion engines. No. 1,398,797; Nov. 29.
- Rapson, Frederick L., Liverpool, England. Device for retaining the shape of bats. No. 1,400,769; Dec. 20.
- Rapson, Hobart D., Philadelphia, Pa. Collapsible toy house. No. 1,386,423; Aug. 2; v. 289; p. 90.
- Rare Metals Reduction Company, The. (See Grenagle, James B., assignor.)
- Rarig, Walter A., Oakland, Calif. Coupling-nipple. No. 1,369,301; Feb. 22; v. 283; p. 615.
- Rasch, Ludvik, Christiania, Norway. Pumping arrangement for turbine-driven separators. No. 1,400,911; Dec. 20.
- Raschke, Emil A., Chicago, Ill. Method and apparatus for making color-correcting and color-separation negatives for plate-printing trades. No. 1,373,020; Mar. 29; v. 284; p. 834.
- Rashkovsky, Samuel, (now by judicial change of name Samuel Raskin,) assignor to Metalform Construction Corporation, St. Louis, Mo. Adjustable form for concrete structures. No. 1,374,864; Apr. 12; v. 285; p. 329.
- Rasely, Warren M., Worcester, Mass. Educational toy. No. 1,393,163; Oct. 11.
- Rasen, Matthys C., Denver, Colo. Electric foot-warmer. No. 1,377,435; May 10; v. 286; p. 259.
- Rasmussen, Andrew, Jr. (See Rasmussen, Andrew, Sr., and A., Jr.)
- Rasmussen, Andrew, Jr., Salt Lake City, Utah. Combined phonograph and picture-projector. No. 1,390,640; Sept. 13; v. 290; p. 310.
- Rasmussen, Andrew, Sr., and A., Jr., Ridgway, Colo. Advertising device. No. 1,375,260; Apr. 19; v. 285; p. 467.
- Rasmussen, Andrew, Sr., and A., Jr., Ridgway, Colo. Advertising device. No. 1,375,261; Apr. 19; v. 285; p. 467.
- Rasmussen, Carl L., Butte, Mont. Alarm-clock attachment. No. 1,397,702; Nov. 22.
- Rasmussen, John P., assignor of one-half to G. A. Curry, Ironwood, Mich. Device for holding carpets. No. 1,383,565; July 5; v. 288; p. 63.
- Rasmussen, Martin, Racine, Wis. Eyeletting-machine. No. 1,373,671; Apr. 5; v. 285; p. 56.
- Rasmussen, Peter, assignor of one-half to S. Knight, Denver, Colo. Automatically-operating cake receiving, separating, dividing, and centralizing machine. No. 1,397,655; Nov. 22.
- Rasmussen, Peter, assignor of one-half to S. Knight, Denver, Colo. Multiple-guide-row stacked-cake receiving and assembling machine. No. 1,397,656; Nov. 22.
- Rasmussen, Peter, assignor of one-half to S. Knight, Denver, Colo. Transversely-adjustable chute for cake-stacking machines. No. 1,397,657; Nov. 22.
- Rasmussen, Peter, Denver, Colo. Automatically-operating material-sprinkling hopper for marshmallow or other material-depositing machines. No. 1,397,658; Nov. 22.
- Rasmussen, Peter A., Chicago, Ill. Perambulating tractor. No. 1,382,854; June 28; v. 287; p. 645.
- Rasmussen, Rudolph C., Philadelphia, Pa. Clamping attachment for nailing machines. No. 1,392,222; Sept. 27; v. 290; p. 764.
- Rasnick, Joseph S., St. Paul, Va., and W. S. Blevins, Kingsport, Tenn. Air-brake control. No. 1,388,483; Aug. 23; v. 289; p. 681.
- Raspotnik, Franc, Westmoreland City, Pa. Vehicle propulsion mechanism. No. 1,383,661; July 5; v. 288; p. 83.
- Rassmann, Hugo C., Beaver Dam, Wis. Watering device for cattle. No. 1,384,346; July 12; v. 288; p. 275.
- Rast, Felix Q., New York, N. Y. Liquid gage and indicator used with gasoline-tanks for automobiles. No. 1,371,395; Mar. 15; v. 284; p. 422.
- Rastall, Arthur R., Ealing, England. Tone-arm for sound-reproducing machines. No. 1,400,983; Dec. 20.
- Rataiczak, Thomas F., assignor to The Hobard Manufacturing Company, Troy, Ohio. Finger-guard. No. 1,386,801; Aug. 9; v. 289; p. 238.
- Ratchford, Nicholas, Fort Recovery, Ohio. Vehicle-wheel. No. 1,368,654; Feb. 15; v. 283; p. 452.
- Ratchiff, Arthur, Chicago, Ill. Composition board. No. 1,387,011; Aug. 9; v. 289; p. 280.
- Ratchiff, Josiah A., Alexandria, Ind. Insect-destroyer. No. 1,370,496; Mar. 1; v. 284; p. 141.
- Ratchliffe, Roscoe, assignor to The Trumbull Electric Mfg. Co., Plainville, Conn. Electric cut-out box. No. 1,365,193; Jan. 11; v. 282; p. 265.
- Rateau, Auguste C. E., Paris, France. Means for cooling turbine-rotors. No. 1,368,751; Feb. 15; v. 283; p. 471.
- Rateau, Auguste C. E., Paris, France. Pertaining to internal-combustion aircraft-motors. No. 1,375,931; Apr. 26; v. 285; p. 627.
- Rateau Battu Smoot Engineering Corporation. (See Smoot, Charles H., assignor.)
- Ratel, Maurice, Paris, France. Mechanical furnace of the underfeed type. No. 1,366,098; Jan. 18; v. 282; p. 480.
- Ratel, Maurice, New York, N. Y. Automatic stoker of the underfeed type. No. 1,389,982; Sept. 6; v. 290; p. 85.
- Rathbone, Richard L. B., London, and C. Morton, Thornton Heath, England. Manufacture of models. No. 1,382,607; June 21; v. 287; p. 545.
- Rathbone Sard Electric Company. (See Sard, R. E., and Norstrand, assignors.)
- Rathbun Manufacturing Company. (See Rathbun, Milo D., assignor.)
- Rathbun, Milo D., Muncie, Ind., assignor to Rathbun Manufacturing Company, Muskegon, Mich. Fender device. No. 1,397,451; Nov. 15.
- Rathbun, Ransom E., Sioux City, Iowa. Vehicle-wheel. No. 1,391,143; Sept. 20; v. 290; p. 473.
- Rathbun, Ross B., Salt Lake City, Utah. Removing solids suspended in moving gases. No. 1,381,660; June 14; v. 287; p. 305.
- Rathbun, Walter E., Milan, Ill. Drive for cream-separators. No. 1,383,854; July 5; v. 288; p. 124.
- Rathburn, Emory L., Chicago, Ill. Fluid-pressure-control system. No. 1,374,323; Apr. 12; v. 285; p. 223.
- Rathjen, William C., St. Louis, Mo. Child's foldable toilet-chair. No. 1,391,791; Sept. 27; v. 290; p. 677.
- Rathjens, George W., Norfolk, Nebr. Carpet-fastening device. No. 1,401,490; Dec. 27.
- Ratkovic, Frank X., Etna, Pa. Wire-cutter. No. 1,373,762; Apr. 5; v. 285; p. 74.
- Ratterman, Ray G., assignor to Dow Wire and Iron Works, Louisville, Ky. Automobile-bumper. No. 1,396,057; Nov. 8.
- Rattigan, John J., Homestead, Pa. Attaching lips to dredge-buckets. No. 1,377,925; May 10; v. 286; p. 353.
- Rau, Albert, Clifton, N. J., assignor to United Piece Dye Works, Inc. Cloth-handling device. No. 1,398,043; Nov. 22.
- Rau, Herman, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Mold-forming apparatus. No. 1,388,442; Aug. 23; v. 289; p. 674.
- Rauch, Frank, Brooklyn, N. Y. Combined pen and cigar-lighter. No. 1,379,213; May 24; v. 286; p. 723.
- Raudabaugh, Israel F., Celina, Ohio. Wall construction. No. 1,399,320; Dec. 6.
- Rausch, George H., East Boothbay, Me. Material formed from fish-skins and preparing the same. No. 1,372,192; Mar. 22; v. 284; p. 631.



## Alphabetical list of patentees—Continued.

- Rausenberger, Larence E., assignor to The Steel Products Engineering Company, Springfield, Ohio. Internal-combustion engine. No. 1,401,442; Dec. 27.
- Rautenbach, Arthur, Solingen, Germany. Casting and mold therefor. No. 1,396,341; Nov. 8.
- Rautenstrauch, Walter, Fort Lee, N. J. Spike. No. 1,367,203; Feb. 1; v. 283; p. 64.
- Rauworth, Edwin S., South Haven, Mich. Burnishing-machine. No. 1,368,752; Feb. 15; v. 283; p. 471.
- Ravaz, Etienne, and A. Pillon, Oullins, France. Supply-cock for the delivery of measured quantities of liquid. No. 1,401,642; Dec. 27.
- Ravaz, Etienne, and A. Pillon, Oullins, France. Valve. No. 1,401,643; Dec. 27.
- Ravelo, Juan P., Habana, Cuba. Automobile-body mounting. No. 1,369,191; Feb. 22; v. 283; p. 595.
- Raven, Glenn S., Watertown, N. Y. License-number plate for automobiles. No. 1,389,983; Sept. 6; v. 290; p. 85.
- Raven, John, Deervale via Armidale, New South Wales, Australia. Ratchet-spanner. No. 1,388,760; Aug. 23; v. 289; p. 734.
- Raven, John, Deervale, via Armidale, New South Wales, Australia. Lifting-jack. No. 1,398,793; Nov. 29.
- Ravner, Oystein, assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Christiania, Norway. Recovering useful substances from minerals and rocks containing potassium. No. 1,377,601; May 10; v. 286; p. 289.
- Rawley, Fleming C., Houston, Tex. Farm-gate. No. 1,388,484; Aug. 23; v. 289; p. 682.
- Rawlings, Arthur D., Clapham, and E. J. Rawlings, Belham, England. Automatic sash-raising mechanism. No. 1,364,887; Jan. 11; v. 282; p. 206.
- Rawlings, Ernest J. (See Rawlings, Arthur D., and E. J.)
- Rawlings, Joe B., Memphis, Tenn. Direction signal for vehicles. No. 1,369,354; Feb. 22; v. 283; p. 626.
- Rawlings, Ruby M. (See Bamforth, Thomas H., assignor.)
- Rawlinson, Edward, Vallejo, Calif. Leg-support. No. 1,400,625; Dec. 20.
- Rawson, Harry H., Spokane, Wash. Body-hoist. No. 1,388,372; Aug. 23; v. 289; p. 659.
- Rawson, Homer E., Chicago, Ill. Steel fishing-rod. No. 1,385,149; July 19; v. 288; p. 523.
- Rawson, William S. (See King, C. A., and Rawson.)
- Ray, Albert D., Cleveland, Ohio. Oil-hole closure. No. 1,374,886; Apr. 12; v. 285; p. 332.
- Ray, Albert D., Cleveland, Ohio. Tractor. No. 1,383,425; July 5; v. 288; p. 35.
- Ray, Albert D., assignor to E. Mandelbaum, Cleveland, Ohio. Moving-picture camera. No. 1,369,127; Feb. 22; v. 283; p. 583.
- Ray, Albert D., Cleveland, Ohio, assignor to W. O. Jackson, New Castle, Ky. Thermostat for radiators. No. 1,396,782; Nov. 15.
- Ray, Ambrose S., Bellefonte, assignor of one-half to G. T. Ray, Mill Hall, Pa. Broom. No. 1,377,926; May 10; v. 286; p. 353.
- Ray, Carl G., Racine, Wis. Flexible filing-cabinet. No. 1,401,188; Dec. 27.
- Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,392,596; Oct. 4.
- Ray, George T. (See Ray, Ambrose S., assignor.)
- Ray, Malcolm, Orange, Tex. Motor-vehicle for traversing marsh lands. No. 1,400,984; Dec. 20.
- Ray, Mark G., Richmond, Va. Composition for stopping radiator-leaks. No. 1,377,275; May 10; v. 286; p. 227.
- Ray, William F., Chicago, Ill. Applying lubricant to tire-casings. No. 1,377,729; May 10; v. 286; p. 314.
- Ray, William H. (See Weis, A. L., and Ray.)
- Ray, William H., Monroe, Mich. Window-screen construction. No. 1,399,878; Dec. 13.
- Ray, William H., assignor to The Weis Fibre Container Corporation, Monroe, Mich. Cover-sealing means. No. 1,394,581; Oct. 25.
- Ray, William H., and Paul B. Pierce, assignors to The Weis Fibre Container Corporation, Monroe, Mich. Automatic fiber-container machine. No. 1,388,202; Aug. 23; v. 289; p. 624.
- Ray, William L., assignor to H. H. Cartwright, Oregon, Ill. Combination-tool. No. 1,374,681; Apr. 12; v. 285; p. 293.
- Ray, William R., San Francisco, Calif. Oil-burner. No. 1,373,149; Mar. 29; v. 284; p. 859.
- Ray, William W., Lexington, Ky. Movable cage. No. 1,373,350; Mar. 29; v. 284; p. 900.
- Raybestos Company, The. (See Kelley, Edward F., assignor.)
- Rayburn, Everett E., Greenville, Ill. Pulley. No. 1,385,396; July 26; v. 288; p. 648.
- Rayburn, Kitty, St. Louis, Mo. Washing-machine. No. 1,375,107; Apr. 19; v. 285; p. 438.
- Rayder, Joseph A., Philadelphia, Pa. Phonograph-amplifier. No. 1,400,985; Dec. 20.
- Rayfield, Charles L., Chicago, Ill. Engine-speed-regulating carbureter. No. 1,379,042; May 24; v. 286; p. 691.
- Rayfield, Charles L., Chicago, Ill. Carbureter. No. 1,401,555; Dec. 27.
- Rayfield, Frederick J., Chicago, Ill. Chain-tightener. No. 1,373,386; Mar. 29; v. 284; p. 906.
- Raymer, Oscar L., Toronto, Ontario, Canada. Twine-cutter. No. 1,365,952; Jan. 18; v. 282; p. 453.
- Raymond Bag Company. (See Lawrence, Walter F., assignor.)
- Raymond, Fred I., Two Buttes, Colo. Device for enabling an airplane-motor to develop its full power at high altitudes. No. 1,398,280; Nov. 29.
- Raymond, Harry. (See Stommel, Hugo, assignor.)
- Raymond, Le Roy, Ocean Park, Calif., assignor to A. Nebel and W. Denzel, New York, N. Y. Amusement device. No. 1,400,314; Dec. 13.
- Raymond, Paul C., U. S. National Army. Recording system and selector mechanism therefor. No. 1,393,443; Oct. 18.
- Raymond, Samuel W., Adrian, Mich. Service station. No. 1,388,893; Aug. 30; v. 289; p. 815.
- Raymond, William A., South Bend, Wash. Holder for incandescent lights. No. 1,382,235; June 21; v. 287; p. 473.
- Raymond, Willis E., Rochester, N. Y. Toy horse. No. 1,370,485; Mar. 1; v. 284; p. 138.
- Raynaud, Ernest A., assignor of one-half to J. W. Perkins, San Diego, Calif. Tire-spreader. No. 1,375,065; Apr. 19; v. 285; p. 430.
- Raynor, Benjamin A., Muskogee, Okla. Resilient and demountable wheel-rim. No. 1,374,113; Apr. 5; v. 285; p. 142.
- Raynsford, Arthur, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,380,730; Aug. 9; v. 289; p. 223.
- Raynsford, Arthur, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,399,998; Dec. 13.
- Rea, Jonathan H., Omaha, Nebr. Aeroplane. No. 1,398,466; Nov. 29.
- Rea, Thomas K., Charlotte, N. C. Lease comb and reed. No. 1,390,162; Sept. 6; v. 290; p. 121.
- Reach, Howard E., assignor to T. R. Barrabee, Los Angeles, Calif. Talking-machine. No. 1,384,347; July 12; v. 288; p. 275.
- Reach, William F., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Ball-marker. No. 1,390,926; Sept. 13; v. 290; p. 367.
- Read, Anna L., administratrix. (See Read, Horace L.)
- Read and Barton Corporation. (See Rogers, William F., assignor.)
- Read, Edwin T., and A. J. Bartz, Keller, Tex. Maternity and invalid chair. No. 1,372,546; Mar. 22; v. 284; p. 699.
- Read, Harry S., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube repeater-circuits. No. 1,386,731; Aug. 9; v. 289; p. 223.
- Read, Henry R., Brooklyn, N. Y. Vehicle. No. 1,365,008; Jan. 11; v. 282; p. 230.
- Read, Horace L., deceased; A. L. Read, administratrix, Quincy, W. Va. Drawing instrument. No. 1,379,124; May 24; v. 286; p. 706.
- Read, John S., Eltham, Taranaki, New Zealand. Milking-machine installation. No. 1,385,751; July 26; v. 288; p. 721.
- Read, William M., assignor of one-half to T. R. Foley, Aitkin, Minn. Railway-joint lock. No. 1,367,832; Feb. 8; v. 283; p. 245.
- Reader, Edward C., et al. (See Noll, Charles, assignor.)
- Reader, Irwin A., et al. (See Noll, Charles, assignor.)
- Reader, Russell F., East St. Louis, Ill. Electric wax-heater. No. 1,381,500; June 14; v. 287; p. 274.
- Readey, John M., St. Louis, Mo. Air-brake apparatus. No. 1,391,404; Sept. 20; v. 290; p. 526.
- Reading, Harold C., Dewsbury, England. Internal-combustion engine. No. 1,398,647; Nov. 29.
- Reading Wood Pulley Company. (See Printz, Harold E., assignor.)
- Ready, William A. (See Balcke, W. H., and Ready.)
- Reagles, Annie L., Corinth, N. Y., assignor to Elixian Paper Core Co., Inc. Device for shaping the ends of hollow cores. No. 1,365,271; Jan. 11; v. 282; p. 280.
- Ream, Fred H., Kansas City, Mo. Radiator-shield for automobiles. No. 1,368,453; Feb. 15; v. 283; p. 412.
- Ream, Fred H., Dayton, Ohio. Snubber. No. 1,390,385; Sept. 13; v. 290; p. 257.
- Ream, George E., Johnstown, Pa. Toy. No. 1,369,192; Feb. 22; v. 283; p. 595.
- Reams, Lewis H., Council Bluffs, Iowa. Hose-nozzle. No. 1,364,141; Jan. 4; v. 282; p. 18.
- Reardon, Fred A., Haverhill, Mass., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn. Wood-heel-attaching jack. No. 1,366,935; Feb. 1; v. 283; p. 11.
- Reardon, Fred A., Bridgeport, Conn. Curtain-fixture. No. 1,395,297; Nov. 1.
- Reardon, Patrick W. (See Albricht, W. H., and Reardon.)
- Reardon, Robert E., Ottawa, Ontario, Canada. Dummy practice-rifle. No. 1,382,120; June 21; v. 287; p. 452.
- Rearick, Charles B., Covington, Va. Carriage and swivel cutting-head for planers. No. 1,394,443; Oct. 18.
- Reaugh, Frank, Oakcliff, Tex. Pump or motor. No. 1,394,861; Oct. 25.
- Reavel, Clyde C., Marion, Ind. Wrench. No. 1,396,590; Nov. 8.
- Reay, Jack M., Blackfoot, Idaho. Conveyor for unloading articles from aircraft. No. 1,380,593; June 7; v. 287; p. 51.



- Rebellet, Jean B., Lyon, France. Fuel-mixer for internal-combustion engines. No. 1,373,021; Mar. 29; v. 284; p. 835.
- Rebelski, August, Brooklyn, N. Y., and M. Torre, Hoboken, N. J. Oval chuck. No. 1,397,546; Nov. 22.
- Rebman, Johan J., Dallas, Tex. Current-motor. No. 1,368,454; Feb. 15; v. 283; p. 412.
- Rebman, Joseph A., Torrington, Conn. Socket-wrench. No. 1,371,933; Mar. 15; v. 284; p. 525.
- Reboul, Alexandre M. J. E., Constantinople, Turkey. Folding safety-razor. No. 1,393,700; Oct. 11.
- Reboul, Edward A., Philadelphia, Pa. Train-controlling mechanism. No. 1,386,656; Aug. 9; v. 289; p. 208.
- Recher, William E., Philadelphia, Pa. Lock for steering-wheels of automobiles. No. 1,368,054; Feb. 8; v. 283; p. 286.
- Rechichar, Joseph, Plymouth, Pa. Combination receptacle and cup-holder. No. 1,366,936; Feb. 1; v. 283; p. 11.
- Rechnitzer, Alexander, Berlin, Germany, assignor to Autarit-Gesellschaft m. b. H., Vienna, Austria. Calculating-machine. No. 1,398,945; Nov. 29.
- Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Soldering-wire spool and flux-container. No. 1,366,278; Jan. 18; v. 282; p. 516.
- Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Corrugated dry-battery cup. No. 1,374,168; Apr. 5; v. 285; p. 152.
- Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Yielding terminal cap for dry-battery cells. No. 1,382,440; June 21; v. 287; p. 573.
- Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Shade-support for incandescent-electric-lamp sockets. No. 1,383,662; July 5; v. 288; p. 84.
- Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Combined incandescent-lamp-socket-interior cover and shade-holder. No. 1,383,663; July 5; v. 288; p. 84.
- Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Key-operated fuse-plug. No. 1,387,906; Aug. 16; v. 289; p. 510.
- Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Miniature lamp-socket for Christmas trees. No. 1,387,907; Aug. 16; v. 289; p. 510.
- Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Making installation-loops for electric fixtures. No. 1,391,792; Sept. 27; v. 290; p. 677.
- Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Fastening means for the suspension-chains of electric fixtures. No. 1,396,463; Nov. 8.
- Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Flashlight. No. 1,398,799; Nov. 29.
- Reclamation Oil Producing Association. (See Crotto, Frank E., assignor.)
- Record, Adam F., Kokomo, Ind. Attachment for pencils or pens. No. 1,376,115; Apr. 26; v. 285; p. 663.
- Rector, Enoch, New York, N. Y., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Burner-cleaner. No. 1,399,655; Dec. 6.
- Rector, Enoch, New York, N. Y., assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Pilot-light-burner control. No. 1,399,656; Dec. 6.
- Rector, Harlan S., Chicago, Ill. Pneumatic tire. No. 1,395,770; Nov. 1.
- Rector, Thomas M., Baltimore, Md., assignor to Musher & Company, Incorporated, New York, N. Y. Producing transparent emulsion. No. 1,389,161; Aug. 30; v. 289; p. 869.
- Red Cross Manufacturing Company. (See Bartlemay, Arlie, assignor.)
- Red, David B. (See Jones, Frank E., assignor.)
- Reddaway, Frank, Pendleton, Manchester, England. Vehicle of the self-laying-track type. No. 1,400,100; Dec. 13.
- Reddig, Charles E., Kew Gardens, assignor to Western Electric Company, Incorporated, New York, N. Y. Flexible shaft-coupling. No. 1,387,177; Aug. 9; v. 289; p. 313.
- Reddig, William H., Detroit, Mich. Device for holding and locking piston-pin screws and lubrication of pin. No. 1,366,937; Feb. 1; v. 283; p. 11.
- Reddin, Thomas P., Bridgeport, Conn. Power transmission. No. 1,399,879; Dec. 13.
- Redding, Edward T., Swissvale, Pa., assignor to Consolidated Expanded Metal Company. Apparatus for making flattened expanded-metal reinforcement. No. 1,370,361; Mar. 1; v. 284; p. 115.
- Redding, Edward T., Swissvale, assignor to The Consolidated Expanded Metal Co., Braddock, Pa. Expanded-metal fabric and making the same. No. 1,370,362; Mar. 1; v. 284; p. 115.
- Redding, Frank F., New York, N. Y. Starting-crank for motors. No. 1,374,114; Apr. 5; v. 285; p. 143.
- Redding, Harry B., assignor, by direct and mesne assignments, of two-thirds to I. S. Fink, Columbus, Ohio. Valve. No. 1,370,224; Mar. 1; v. 284; p. 89.
- Redding, Harry B., assignor, by direct and mesne assignments, of two-thirds to I. S. Fink, Columbus, Ohio. Valve. No. 1,370,225; Mar. 1; v. 284; p. 89.
- Redding, James W. (See Brumbaugh, A. K., Redding, and Clarke.)
- Redding, Roy F., Evansville, Ind. Metal bed construction. No. 1,373,763; Apr. 5; v. 285; p. 74.
- Redell, Frederick W., Glenside, Pa. Driving or power-transmission belt. No. 1,378,379; May 17; v. 286; p. 490.
- Redenbaugh, Morton H., Toledo, Ohio. Adjustable socket-wrench. No. 1,370,839; Mar. 8; v. 284; p. 251.
- Redfern, Thomas, Kearney, N. J. Carburetor-control means for gas-engines. No. 1,399,519; Dec. 6.
- Redfield, Casper L., trustee. (See Lundquist, Frank A., assignor.)
- Redfield, Edward D., Hartford, Conn. Tire-lifter. No. 1,371,574; Mar. 15; v. 284; p. 457.
- Redfield, John A., Houston, Tex. Mouthpiece for clarinets. No. 1,375,467; Apr. 19; v. 285; p. 506.
- Redfield, Willis B., Downey, Calif. Shock-absorber. No. 1,395,974; Nov. 1.
- Redford, John E., Kinloch, assignor to American Brake Company, St. Louis, Mo. Automatic slack-adjuster. No. 1,370,840; Mar. 8; v. 284; p. 251.
- Redford, John E., Kinloch, assignor to American Brake Company, St. Louis, Mo. Brake slack-adjuster. No. 1,370,841; Mar. 8; v. 284; p. 252.
- Redford, John E., Kinloch, assignor to American Brake Company, St. Louis, Mo. Automatic slack-adjuster. No. 1,381,932; June 21; v. 287; p. 417.
- Redford, Philip H. W., Providence, R. I. Card-holder. No. 1,386,657; Aug. 9; v. 289; p. 208.
- Redington, F. B., Company. (See Milmo, Michael J., assignor.)
- Redlon, Osgood M., Bath, Me. Adjustable leg for sinks and other articles. No. 1,365,542; Jan. 11; v. 282; p. 332.
- Redman, Charles F., Chicago, Ill. Aeroplane. No. 1,372,723; Mar. 29; v. 284; p. 774.
- Redman, Lawrence V., Evanston, A. J. Weith, and F. P. Brock, assignors to Redmanol Chemical Products Company, Chicago, Ill. Producing phenolic condensation products. No. 1,368,753; Feb. 15; v. 283; p. 471.
- Redman, Lawrence V., Evanston, A. J. Weith, and F. P. Brock, assignors to Redmanol Chemical Products Company, Chicago, Ill. Producing a phenolic condensation product. No. 1,374,526; Apr. 12; v. 285; p. 264.
- Redmanol Chemical Products Company. (See Redman, L. V., Weith, and Brock, assignors.)
- Redmon, Claude F., C. G., L. K., and J. T., Paris, Ky. Shaft-fastening. No. 1,367,500; Feb. 1; v. 283; p. 123.
- Redmon, Claude F., L. K., Redmon, C. G., Redmon, and J. T. Redmon, assignors of one-fifth to W. H. Whitley, Paris, Ky. Powder-blower. No. 1,394,686; Oct. 25.
- Redmon, Claude F., L. K., Redmon, C. G., Redmon, and J. T. Redmon, Paris, Ky. Automatic circuit mechanism. No. 1,364,895; Jan. 4; v. 282; p. 146.
- Redmon, Claude G. (See Redmon, Claude F., C. G., L. K., and J. T.)
- Redmon, John T. (See Redmon, Claude F., C. G., L. K., and J. T.)
- Redmon, John T. (See Redmon, Claude F., L. K., C. G., and J. T.)
- Redmon, Lillard K. (See Redmon, Claude F., C. G., L. K., and J. T.)
- Redmon, Lillard K. (See Redmon, Claude F., L. K., C. G., and J. T.)
- Redmon, Lillard K. (See Redmon, Claude F., L. K., C. G., and J. T.)
- Redmon, Lillard K. (See Redmon, Claude F., L. K., C. G., and J. T.)
- Ree-Nu-It Electric Manufacturing Company. (See Smith, Walter O., assignor.)
- Reece Button Hole Machine Company, The. (See Hagelstein, Christian H. T., assignor.)
- Reece Button Hole Machine Company, The. (See Kiewicz, John, assignor.)
- Reece Button Hole Machine Company, The. (See La Fleur, Benjamin S., assignor.)
- Reece Button Hole Machine Company, The. (See Reece, Franklin A., assignor.)
- Reece, Franklin A., Chestnut Hill, assignor to The Reece Button Hole Machine Company, Boston, Mass. Button-hole-cutter. No. 1,372,630; Mar. 22; v. 284; p. 715.
- Reece-Hilton Inc. (See Hilton, Roland C., assignor.)
- Reece, John E., et al. (See Keller, James C., assignor.)
- Reece Shoe Machinery Company. (See Perri, Angelo, assignor.)
- Reece Shoe Machinery Company. (See Schoenky, August R., assignor.)
- Reece, Wade W. (See Brindle, Richard G., assignor.)
- Reece, William S., Portland, Oreg. Valve. No. 1,372,547; Mar. 22; v. 284; p. 699.
- Reece, Wilson L., et al. (See Keller, James C., assignor.)
- Reed, Albert F., Wapello, Iowa. Piston-ring tool. No. 1,395,140; Oct. 25.
- Reed, Andrew J., Wilkes-Barre, Pa. Apparatus for purifying water. No. 1,397,452; Nov. 15.
- Reed, Asa E., San Bernardino, Calif. Power-generator. No. 1,369,542; Feb. 22; v. 283; p. 663.



## Alphabetical list of patentees—Continued.

- Reed, Asbury, Los Angeles, Calif. Auxiliary windshield. No. 1,391,580; Sept. 20; v. 290; p. 562.
- Reed, Asbury, et al. (See Bertrand, John A., assignor.)
- Reed, Benjamin E., Marcus Hook, and J. E. Clippinger, Philadelphia, Pa. Tractor plow. No. 1,369,469; Feb. 22; v. 283; p. 648.
- Reed, C. E. (See Sorensen, Sam, assignor.)
- Reed, Charles A., Williamsport, Pa. Apparatus for making ornamental rope. No. 1,392,795; Oct. 4.
- Reed, Charles H., San Francisco, Calif. Fingering attachment for stringed instruments. No. 1,374,388; Apr. 12; v. 285; p. 236.
- Reed, Charles P., Indiana, Pa. Educational game. No. 1,389,162; Aug. 30; v. 289; p. 869.
- Reed, Clarence E., Houston, Tex. Pipe-wrench. No. 1,364,582; Jan. 4; v. 282; p. 103.
- Reed, Clarence E., Houston, Tex. Grapple for oil-wells and the like. No. 1,375,320; Apr. 19; v. 285; p. 478.
- Reed, Clarence E., Houston, Tex. Drill-head. (Reissue.) No. 15,126; June 14; v. 287; p. 352.
- Reed, Clarence E., Houston, Tex. Pipe-wrench. No. 1,387,866; Aug. 16; v. 289; p. 502.
- Reed, Clarence E., Houston, Tex. Wrench. No. 1,387,867; Aug. 16; v. 289; p. 503.
- Reed, Cyrus, Lebanon, Pa. Gate and hinge-latch therefor. No. 1,381,335; June 14; v. 287; p. 244.
- Reed, Earl W., Sunnyside, Wash. Motor-driven buck-rake. No. 1,384,919; July 19; v. 288; p. 474.
- Reed, Edgar H., Worcester, Mass. Making winged nuts and the like. No. 1,399,793; Dec. 13.
- Reed, Edwin, Andover, Mass. Roll. No. 1,384,806; July 19; v. 288; p. 452.
- Reed, Ekegren & Co. (See West, Charles J., assignor.)
- Reed, Evan L., Sterling, Ill. Tripod-support. No. 1,371,263; Mar. 15; v. 284; p. 395.
- Reed, Evan L., Sterling, Ill. Rack for glass globes. No. 1,389,984; Sept. 6; v. 290; p. 86.
- Reed, Frederic P., East Orange, assignor, by mesne assignments, to C. C. Orcutt, Long Branch, N. J. Method of and apparatus for coating paper. No. 1,391,444; Oct. 18.
- Reed, Genevieve, Naugatuck, Conn. Traffic-signal. No. 1,388,761; Aug. 23; v. 289; p. 735.
- Reed, Glen W., et al. (See Carson, Robert H., assignor.)
- Reed, Harry H., Winthrop, Mass. Refrigerator. No. 1,383,235; June 28; v. 287; p. 718.
- Reed, Harry S., and H. L. Publow, East Lansing, Mich. Process and apparatus for the production of lead oxid. No. 1,376,581; May 3; v. 286; p. 38.
- Reed, Hastings C., Alpha, Ohio. Turntable for use in road-building. No. 1,365,953; Jan. 18; v. 282; p. 453.
- Reed, Hastings C., Cedarville, Ohio. Portable blower. No. 1,374,232; Apr. 12; v. 285; p. 206.
- Reed, Henry J., Seattle, Wash. Fabric-clasp. No. 1,365,850; Jan. 18; v. 282; p. 432.
- Reed, Herbert H., Covington, Ohio. Spotlight-hanger. No. 1,377,927; May 10; v. 286; p. 354.
- Reed, Hugh T., Chicago, Ill. Calendar. No. 1,399,880; Dec. 13.
- Reed, James H., Swampscott, Mass., assignor to Hamel Shoe Machinery Company. Sole-skiving machine. No. 1,368,572; Feb. 15; v. 283; p. 436.
- Reed, James M., Brooklyn, N. Y. Safety door-fastener. No. 1,400,315; Dec. 13.
- Reed, John. (See Blackburn, Robert, assignor.)
- Reed, John C., Pittsburgh, Pa. Mold-disk. No. 1,364,207; Jan. 4; v. 282; p. 31.
- Reed, Lewis, Woods Cross, Utah. Sheet-metal flume. No. 1,380,318; May 31; v. 286; p. 1005.
- Reed, Lloyd R. (See Cook, A. F., and Reed.)
- Reed, Luke D., Burnham, Ill. Flying-boat. No. 1,398,467; Nov. 29.
- Reed Manufacturing Company. (See Tozer, Archibald B., assignor.)
- Reed Manufacturing Company. (See Wright, Ross P., assignor.)
- Reed, Osa E., et al. (See Smith, Adelbert, assignor.)
- Reed-Prentice Company. (See Hendrickson, Fred K., assignor.)
- Reed Roller Bit Company. (See Duda, Oswald, assignor.)
- Reed, Theodore J., Kansas City, Mo. Tire. No. 1,379,043; May 24; v. 286; p. 691.
- Reed, Warren B., and W. Hepler, Morgan City, La. Drilling apparatus. No. 1,378,056; May 17; v. 286; p. 430.
- Reeder, Charles H., St. Louis, Mo. Unloading device for air-compressors. No. 1,365,272; Jan. 11; v. 282; p. 280.
- Reeder, Ernest B., Madison, Ind. Automatic raising and lowering step. No. 1,397,294; Nov. 15.
- Reedy, Fred O. (See Wap, C. F., Hicks, and Reedy.)
- Rees, Clarence E., San Diego, Calif. Internal-combustion engines. No. 1,382,236; June 21; v. 287; p. 473.
- Rees, Frank W., assignor to Sees-All Manufacturing Co., Seattle, Wash. Clamp. No. 1,364,644; Jan. 4; v. 282; p. 115.
- Rees, Frank W., assignor of one-fourth to O. Ota, and three-fourths to J. T. W. Jay, Seattle, Wash. Electric switch for automobiles. No. 1,365,194; Jan. 11; v. 282; p. 265.
- Rees, Frank W., assignor of one-half to D. H. Hotchkin, Seattle, Wash. Spotlight-lamp bracket. No. 1,392,850; Oct. 4.
- Rees, George G. (See Johnston, C. F., and Rees.)
- Rees, Herbert C., San Antonio, Tex. Forming tubes. No. 1,375,108; Apr. 19; v. 285; p. 438.
- Rees, Morgan E., Morriston, near Swansea, Wales. Means for securing railway-rails to sleepers. No. 1,377,923; May 10; v. 286; p. 354.
- Rees, Warren C., Somerville, assignor to Aseptic Service Company, Boston, Mass. Counter-operating mechanism for coin-controlled devices. No. 1,396,342; Nov. 8.
- Reese, Allyn R., et al. (See Jackson, Richard, Jr., assignor.)
- Reese, Merl W., New York, N. Y. Soft-collar fastener. No. 1,371,811; Mar. 15; v. 284; p. 502.
- Reese, Richard E., assignor of one-half to W. McKinley, Omaha, Nebr. Roller-bracket for window-shades. No. 1,385,397; July 26; v. 288; p. 648.
- Reeser, Harry C. (See Wooddell, G. C., and Reeser.)
- Reeve, Charles D., Grand Rapids, Mich., assignor to Wilcox Pressed Steel Company, Chicago, Ill. Hasp. No. 1,401,491; Dec. 27.
- Reeve, Charles S., Grantwood, N. J., assignor to The Barrett Company, Bituminous emulsion. No. 1,398,201; Nov. 22.
- Reeve, Edward, Birmingham, assignor to The Menco-Elma Syndicate Limited, London, England. Change-speed gearing. No. 1,365,195; Jan. 11; v. 282; p. 265.
- Reeve, Henry E., Brooklyn, N. Y. Thermostatic device. No. 1,400,238; Dec. 13.
- Reeves, Alfred, assignor of one-half to Butlers, Limited, Birmingham, England. Hinge for lens-bezels of motor-car lamps. No. 1,367,204; Feb. 1; v. 283; p. 64.
- Reeves, Cicero O., Indianapolis, assignor to G. A. Reeves, Anderson, Ind. Photographer's portable light. No. 1,370,842; Mar. 8; v. 284; p. 252.
- Reeves, Donald H., Dayton, Ohio. Pneumatic pump. No. 1,385,752; July 26; v. 288; p. 721.
- Reeves, Edward M., Chicago, Ill. Automobile-spring compressor. No. 1,382,801; June 28; v. 287; p. 636.
- Reeves, George A. (See Reeves, Cicero E., assignor.)
- Reeves, George G., Humble, Tex. Drilling apparatus. No. 1,395,059; Oct. 25.
- Reeves, John F., Oxnard, Calif. Nozzle. No. 1,384,540; July 12; v. 288; p. 315.
- Reeves, Joseph T., assignor of twenty-five one-hundredths to R. M. Hayes, Brooklyn, N. Y. Navigational instrument. No. 1,401,362; Dec. 27.
- Reeves, Madison W., Sayre, Pa. Stepladder. No. 1,379,419; May 24; v. 286; p. 762.
- Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Machine for grooving agates and similar stones. No. 1,379,044; May 24; v. 286; p. 691.
- Reeves, Orwell C., assignor to Toledo Scale Company, Toledo, Ohio. Predetermined-weight scale. No. 1,397,547; Nov. 22.
- Re-Filit Broom Company. (See Neff, Harry D., assignor.)
- Refining Products Corporation. (See Mumford, Russell W., assignor.)
- Refinite Company, The. (See Wherry, James B., assignor.)
- Reifor, Edward H., Toledo, Ohio. Bumper. No. 1,368,292; Feb. 15; v. 283; p. 381.
- Refrigerating Specialties Co. (See Hansen, Charles C., assignor.)
- Refrigerating Specialties Company. (See Hansen, Charles C., assignor.)
- Refrigo Corporation. (See Ellmauer, Josef, assignor.)
- Regal Manufacturing Company. (See Dunnnett, Harry L., assignor.)
- Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp-stop-motion frame. No. 1,375,729; Apr. 26; v. 285; p. 589.
- Regan, Michael C., Washington, D. C. Portable safe. No. 1,395,771; Nov. 1.
- Regan, Ray D., Susquehanna, Pa. Crosshead. No. 1,386,532; Aug. 2; v. 289; p. 111.
- Regen, Oscar, and J. Castelle, New York, N. Y. Calendar and card hanging device. No. 1,376,116; Apr. 26; v. 285; p. 663.
- Regenbogen, Conrad, assignor to Fried. Krupp Aktien-gesellschaft Germaniaewerft, Kiel-Gaarden, Germany. Piston for internal-combustion engines. No. 1,373,263; Mar. 29; v. 284; p. 882.
- Regenier, John G., Menard, Tex. Coupling. No. 1,372,904; Mar. 29; v. 284; p. 811.
- Regenold, Charles S., Memphis, Tenn. Permutation-valves. No. 1,365,543; Jan. 11; v. 282; p. 333.
- Regenstein, Joseph, Chicago, Ill. Door-panel and the like. No. 1,387,311; Aug. 9; v. 289; p. 339.
- Regenstein, Joseph, Chicago, Ill. Door-panel and the like. No. 1,387,312; Aug. 9; v. 289; p. 339.
- Regero, Frank, Macon, Ga. Fountain-pen. No. 1,398,800; Nov. 29.
- Regina Company, The. (See Wills, Marmaduke M., assignor.)
- Regis, Frank. (See Chmurski, Anton J., assignor.)
- Regis Ometer Company. (See Baldwin, Charles E., assignor.)
- Register, Albert L. (See Huyett, D. D., and Register.)
- Register, James W., Jasper, Fla. Pump. No. 1,391,503; Sept. 20; v. 290; p. 546.
- Regout, Jules, Jr., Maastricht, Netherlands. Machine for raising nap on fabrics. No. 1,384,920; July 19; v. 288; p. 474.
- Regnoni, Romualdo. (See Frattola, E., Castelli, and Regnoni.)
- Reh, Sam, et al. (See Dragon, Louis, assignor.)



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- Rehanek, James J., Columbia, S. C. Automobile-sleeper. No. 1,378,615; May 17; v. 286; p. 536.
- Rehffuss, Martin O., assignor to John Wanamaker, Philadelphia, Pa. Shearing-machine. No. 1,380,249; May 31; v. 286; p. 992.
- Rehrauer, Randolph A. (See Rheim, L. J., and Rehauer.)
- Rehthaler, Louis, assignor to Battle Creek Appliance Company, Ltd., Battle Creek, Mich. Truss. No. 1,381,336; June 14; v. 287; p. 244.
- Reiber, Edward W., Adrian, Mich. Spotlight construction. No. 1,396,234; Nov. 8.
- Reiber, Herbert H. (See Walsh, J. L., and Reiber.)
- Reible, Joseph, *et al.* (See Dragon, Louis, assignor.)
- Reich, Frederick, Elizabeth, N. J. Piston-ring holder. No. 1,368,655; Feb. 15; v. 283; p. 452.
- Reich, Valdemar F., Pittsburgh, Pa., assignor to N. Elin, Newark, N. J. Double-acting elastic shackle. No. 1,373,449; Apr. 5; v. 285; p. 13.
- Reichard, Benjamin, New York, N. Y. Hat-creaser-retaining device. No. 1,367,205; Feb. 1; v. 283; p. 64.
- Reichard, Walter V., Paola, Kans. Thermal circuit-closer. No. 1,398,153; Nov. 22.
- Reichart, William M., Cleveland, Ohio. Electric feed-water regulator. No. 1,394,643; Oct. 25.
- Reiche, Arthur, Berlin, Germany, assignor to Aktiebolaget Ars, Stockholm, Sweden. Projecting apparatus. No. 1,401,189; Dec. 27.
- Reichenbach, George T., Chicago, Ill. Can. No. 1,374,389; Apr. 12; v. 285; p. 236.
- Reichert, John, Racine, Wis. Calf-weaner and the like. No. 1,366,099; Jan. 18; v. 282; p. 481.
- Reichert, John, Racine, Wis. Calf-weaner and the like, (jointed.) No. 1,366,133; Jan. 18; v. 282; p. 487.
- Reichmann, Fritz, New York, N. Y. Weighing device. No. 1,393,828; Oct. 18.
- Reichmann, F. J., and J. Press, Chicago, Ill.; said Press assignor to said Reichmann. Telephone instrument. No. 1,379,287; May 24; v. 286; p. 737.
- Reichstein, David, Zurich, Switzerland. Rust-preventing process. No. 1,395,730; Nov. 1.
- Reichold, Ludwig, Pittsfield, Mass., assignor to General Electric Company. Resistance unit. No. 1,394,937; Oct. 25.
- Reid, Andrew, Moosomin, Saskatchewan, Canada. Sleigh-runner. No. 1,380,680; June 7; v. 287; p. 68.
- Reid, David, Buffalo, N. Y. Muffler. No. 1,387,614; Aug. 16; v. 289; p. 451.
- Reid, Frederick C., and T. Taylor, Vancouver, British Columbia, Canada. Hose-uncoupling device. No. 1,368,656; Feb. 15; v. 283; p. 452.
- Reid, Frederick H., Toronto, Ontario, Canada. Floor waxing and polishing device. No. 1,372,370; Mar. 22; v. 284; p. 665.
- Reid, James, Watertown, and A. M. Leahy, Somerville, Mass. Detachable chain-link. No. 1,386,732; Aug. 9; v. 289; p. 223.
- Reid, James H., Pittsburgh, Pa., assignor to International Nitrogen Company. Making metal nitrogen-containing compounds augmented by gaseous catalysts. No. 1,388,603; Aug. 23; v. 289; p. 704.
- Reid, James H., Pittsburgh, Pa., assignor to International Nitrogen Company. Making carbide. No. 1,396,058; Nov. 8.
- Reid, James H., Pittsburgh, Pa., assignor to International Nitrogen Company. Making nitric acid. No. 1,400,912; Dec. 20.
- Reid, James H., Readsboro, Vt., assignor to T. I. Hogan, Boston, Mass. Process of and material for reducing ore and making gas. No. 1,398,572; Nov. 29.
- Reid, James J., San Francisco, Calif. Baker's oven. No. 1,384,406; July 12; v. 288; p. 287.
- Reid, James J., Oakland, Calif. Heating and baking structure. No. 1,390,542; Sept. 13; v. 290; p. 289.
- Reid, James J., South Bend, Ind. Indicator. No. 1,396,383; Nov. 8.
- Reid, John, New York, N. Y. Oil-burning-furnace front. No. 1,370,486; Mar. 1; v. 284; p. 139.
- Reid, John, New York, N. Y. Means for unloading floatable cargoes. No. 1,370,912; Mar. 8; v. 284; p. 265.
- Reid, John, New York, N. Y. Oil-burning-furnace front. No. 1,374,682; Apr. 12; v. 285; p. 294.
- Reid, John, New York, N. Y. Oil-burning-furnace front. No. 1,374,683; Apr. 12; v. 285; p. 294.
- Reid, John, New York, N. Y. Furnace-front. No. 1,380,739; June 7; v. 287; p. 79.
- Reid, John, New York, N. Y. Oil-burning-furnace front. No. 1,380,740; June 7; v. 287; p. 79.
- Reid, Sylvester H., assignor to The J. G. Brill Company, Philadelphia, Pa. Window-frame. No. 1,366,678; Jan. 25; v. 282; p. 639.
- Reid, Walter W., New York, N. Y. Box. No. 1,398,154; Nov. 22.
- Reid, William. (See Edwards, William A., assignor.)
- Reid, William, Chicago, Ill. Carbureter. No. 1,394,687; Oct. 25.
- Reid, William C., Elkhart, Ind. Music-lyre holder. No. 1,376,780; May 3; v. 286; p. 75.
- Reid, William D., Brooklyn, N. Y. Typewriter attachment. No. 1,364,806; Jan. 4; v. 282; p. 146.
- Reider, Christian H., assignor to The J. G. Brill Company, Philadelphia, Pa. Car-seat. No. 1,369,543; Feb. 22; v. 283; p. 663.
- Reider, Paul E., Philadelphia, Pa. Car-hopper-releasing device. No. 1,381,661; June 14; v. 287; p. 305.
- Reif, Joseph, assignor of forty-five per cent. to F. E. Ling, Hebron, Ind. Brake mechanism for railway-cars. No. 1,391,977; Sept. 27; v. 290; p. 715.
- Reif, Joseph, assignor of forty-five per cent. to F. E. Ling, Hebron, Ind. Car-coupling. No. 1,397,781; Nov. 22.
- Reif, Joseph, assignor of 45 per cent. to F. E. Ling, Hebron, Ind. Piston. No. 1,399,794; Dec. 13.
- Reif, Joseph, assignor of 45 per cent. to F. E. Ling, Hebron, Ind. Shock-absorber for automobiles and other vehicles. No. 1,399,795; Dec. 13.
- Reigersberg, Morris, assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Shelving construction. No. 1,381,501; June 14; v. 287; p. 275.
- Reiges, Jerry, Worcester, Mass. Silverware-cleaner. No. 1,367,280; Feb. 1; v. 283; p. 79.
- Reiges, Jerry, Worcester, Mass. Trousers-pressing board. No. 1,372,039; Mar. 22; v. 284; p. 602.
- Reiley, Matthew S., Ocean Park, Calif. Valve. No. 1,392,354; Oct. 4.
- Reiley, Edward P., Cleveland, Ohio. Combination multiple valve and lock. No. 1,387,073; Aug. 9; v. 289; p. 293.
- Reiley, John J., Troy, N. Y. Compound universal chuck. No. 1,369,707; Feb. 22; v. 283; p. 695.
- Reilly, Edgar J., assignor to The William B. Pollock Company, Youngstown, Ohio. Liquid-metal-transfer apparatus. No. 1,386,075; Aug. 2; v. 289; p. 23.
- Reilly, Edward J., Baltimore, Md. Envelop. No. 1,385,411; July 26; v. 288; p. 664.
- Reilly, John P., *et al.* (See Showalter, Roy C., assignor.)
- Reilly, Peter C. (See Meriwether, Coleman, assignor.)
- Reimann, Adolph H., Detroit, Mich. Curtain-guard for windows. No. 1,389,843; Sept. 6; v. 290; p. 57.
- Reimann, Fred W., Manistique, Mich. Tag holder and illuminator. No. 1,401,731; Dec. 27.
- Reimann, Jacques, Erdington, Birmingham, England. Tube-rolling mill. No. 1,399,401; Dec. 6.
- Reimer, Irving, Seattle, Wash. Floating fish-trap. No. 1,393,907; Oct. 18.
- Reimer, Jorgen A., assignor of one-half to H. C. Hansen, Elk Horn, Iowa. Draft-elevator for harrows. No. 1,399,999; Dec. 13.
- Reinbold, Alexander. (See Reinbold, Phillip, A., and A.)
- Reinbold, Arthur. (See Reinbold, Phillip, A., and A.)
- Reinbold, Phillip, A., and A., Blumfield township, Saginaw county, Mich. Pea-vine-harvesting machine. No. 1,373,832; Apr. 5; v. 285; p. 88.
- Reincke, Henry, Des Plaines, Ill. Henhouse-door. No. 1,381,015; June 7; v. 287; p. 133.
- Reineke, Fred A., Sheridan, Wyo. Bank-vault. No. 1,367,501; Feb. 1; v. 283; p. 123.
- Reincke, Henri H., Los Angeles, Calif. Shirt. No. 1,383,855; July 5; v. 288; p. 124.
- Reiner, Robert, Weehawken, N. J. Shuttle. No. 1,383,484; July 5; v. 288; p. 47.
- Reinhalter, Peter, Wilkes-Barre, Pa. Screwdriver attachment. No. 1,392,796; Oct. 4.
- Reinhard, Ferdinand C., West Pittsburg, Pa. Clothesline-fastener. No. 1,368,754; Feb. 15; v. 283; p. 471.
- Reinhard, Robert, and J. C. Schmitt, Chicago, Ill. Hoop. No. 1,381,502; June 14; v. 287; p. 275.
- Reinhardt, James, Norman, Okla. Tire-repairing apparatus. No. 1,367,626; Feb. 8; v. 283; p. 205.
- Reinhalter, Peter, assignor to P. Reinhalter Co., Wilkes-Barre, Pa. Handle attachment for screwdrivers. No. 1,379,125; May 24; v. 286; p. 706.
- Reinhalter, Peter, Co. (See Reinhalter, Peter, assignor.)
- Reinhalter, Peter, St. Paul, Minn. Combination heater and cooker. No. 1,396,464; Nov. 8.
- Reinhardt, William C., and O. H. Banker, assignors to Racine Tool & Machine Co., Racine, Wis. Tire-cutting machine. No. 1,393,164; Oct. 11.
- Reinheimer, Arthur F., Detroit, Mich. Pool-cue-tip holder. No. 1,390,722; Sept. 13; v. 290; p. 325.
- Reinhold, Baldwin. (See Aberg, Walter A., assignor.)
- Reinhold, Otto F., Maplewood, assignor, by mesne assignments, to Foster-Reinhold Laboratories, Newark, N. J. Composition of matter. No. 1,374,233; Apr. 12; v. 285; p. 206.
- Reinke, Gustave A., Stockton, Calif. Raker-gage. No. 1,373,636; Apr. 5; v. 285; p. 49.
- Reinl, William, Secaucus, N. J. Sash-fastener. No. 1,398,573; Nov. 29.
- Reinwald, Paul, San Francisco, Calif. Fire-escape. No. 1,370,045; Mar. 1; v. 284; p. 55.
- Reinwald, Paul, Menlo Park, Calif. Rake. No. 1,394,353; Oct. 18.
- Reis, G., and Bro., Inc. (See Reis, J. M., and Friedman, assignors.)
- Reis, Julius M., and B. Friedman, assignors to G. Reis & Bro., Inc., New York, N. Y. Label-printing machine. No. 1,379,599; May 24; v. 286; p. 795.
- Reisch, William C., Plantsville, Conn. Spring catch and lock. No. 1,380,158; May 31; v. 286; p. 975.
- Reising, Eugene G., East Hartford, assignor to The Hartford Machine Gun Company, Hartford, Conn. Firearm. No. 1,381,016; June 7; v. 287; p. 133.
- Reising, Eugene G., East Hartford, Conn. Firearm. No. 1,395,141; Oct. 25.
- Reisner, W. H., Manufacturing Company, The. (See Reisner, William H., assignor.)



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- Reiss, Harry H. (See Bruninga, J. H., and Reiss.)
- Reist, George K., Harrisburg, Pa. Floating storage-port. No. 1,397,385; Nov. 15.
- Reist, Warren D., Williamsonville, N. Y. Double-grip-socket wrench. No. 1,396,591; Nov. 8.
- Reit, Walter L., Philadelphia, Pa. Spring suspension for automobiles. No. 1,364,520; Jan. 4; v. 282; p. 92.
- Reitan, Lorentz O., Haugesund, Norway. Fan for beds. No. 1,376,289; Apr. 26; v. 285; p. 696.
- Reiter, Lues, Providence, R. I. Soft-collar fastener. No. 1,386,424; Aug. 2; v. 289; p. 91.
- Reitz, Charles E., Reitz, Pa. Root-puller. No. 1,364,807; Jan. 4; v. 282; p. 146.
- Rejkowski, Martin, Akron, Ohio. Vegetable slicing and chopping machine. No. 1,390,217; Sept. 6; v. 290; p. 132.
- Rekar, John J., Los Angeles, Calif. Lamp. No. 1,397,453; Nov. 15.
- Relay Automatic Telephone Company, Limited, The. (See Betulander, G. A., and Palmgren, assignors.)
- Relay Automatic Telephone Company. (See Cohen, Bertram S., assignor.)
- Reliable Knitting Works. (See Joha, Elmer N., assignor.)
- Reliable Match Company, The. (See Warner, Noah L., assignor.)
- Reliance Machine & Specialty Co. (See Bartlett, Leonard, assignor.)
- Reliance Wheel Co., The. (See Culp, Jay S., assignor.)
- Remar, Albert, Maynard, Ohio. Tire armor and antiskid device. No. 1,385,753; July 26; v. 288; p. 722.
- Rembe, John W., Jersey City, N. J. Soap-powder dispenser. No. 1,383,664; July 5; v. 288; p. 84.
- Rembert, William E., Gilliam, La. Sample-taking drill. No. 1,386,802; Aug. 9; v. 289; p. 238.
- Remick, Andrew B. (See Fischer, John G., assignor.)
- Remington Accounting Machine Corporation. (See Golber, Hyman, assignor.)
- Remington Accounting Machine Corporation. (See Goldberg, Hyman E., assignor.)
- Remington Accounting Machine Corporation. (See Goldberg, Hyman E., now by judicial change of name Hyman Golber, assignor.)
- Remington Accounting Machine Corporation. (See Martin, Olaf O., assignor.)
- Remington Accounting Machine Corporation. (See Poole, Arthur F., assignor.)
- Remington Accounting Machine Corporation. (See Wahl, John C., assignor.)
- Remington Accounting Machine Corporation. (See Woodward, Oscar, assignor.)
- Remington Arms Company. (See Dygert, Charles B., assignor.)
- Remington Arms Company. (See Garrison, George H., assignor.)
- Remington Arms Company. (See Leckie, Herbert V., assignor.)
- Remington Arms Company. (See Schmidt, Wilhelm A., assignor.)
- Remington, Fred E. (See Haynes, William G., assignor.)
- Remington, Joseph P., assignor to Remington Manufacturing Company, Philadelphia, Pa. Means and method for supplying liquid fuel to explosive-motors. No. 1,373,911; Apr. 5; v. 285; p. 103.
- Remington, Joseph P., assignor to Remington Manufacturing Company, Philadelphia, Pa. Means for supplying liquid fuel to explosive-motors. No. 1,373,912; Apr. 5; v. 285; p. 104.
- Remington, Joseph P., assignor to Remington Manufacturing Company, Philadelphia, Pa. Means for supplying liquid fuel to explosive-motors. No. 1,373,913; Apr. 5; v. 285; p. 104.
- Remington Manufacturing Company. (See Remington, Joseph P., assignor.)
- Remington Typewriter Company. (See Bridgwater, Herbert E., assignor.)
- Remington Typewriter Company. (See Briggs, Arthur J., assignor.)
- Remington Typewriter Company. (See Carpenter, Daniel A., assignor.)
- Remington Typewriter Company. (See Diss, Louis P., assignor.)
- Remington Typewriter Company. (See Dodge, Elbert S., assignor.)
- Remington Typewriter Company. (See Dudley, Arthur J., assignor.)
- Remington Typewriter Company. (See Felbel, Jacob, assignor.)
- Remington Typewriter Company. (See Holden, Joseph B., assignor.)
- Remington Typewriter Company. (See Joselyn, Hubbard N., assignor.)
- Remington Typewriter Company. (See McKay, Henry N., assignor.)
- Remington Typewriter Company. (See Schmidt, Wilhelm A., assignor.)
- Remington Typewriter Company. (See Seib, George A., assignor.)
- Remington Typewriter Company. (See Smith, Arthur W., assignor.)
- Remington Typewriter Company. (See Woodward, Oscar, assignor.)
- Remmert Manufacturing Company. (See Remmert, William, assignor.)
- Remmert, William, St. Louis, Mo., assignor to Remmert Manufacturing Company, Belleville, Ill. Washing-machine. No. 1,366,418; Jan. 25; v. 282; p. 587.
- Remnsnider, George, Belleville, Ill. Feed-carriage for stencil-machines. No. 1,374,234; Apr. 12; v. 285; p. 206.
- Remsberg, Arthur S., Lakewood, assignor to The Chisholm-Moore Manufacturing Company, Cleveland, Ohio. Chain-shackle. No. 1,393,568; Oct. 11.
- Remus, William F., Rangataua, A. E. Macredie, and C. F. Cork, Auckland, New Zealand. Production of meat powder. No. 1,382,673; June 28; v. 287; p. 611.
- Remy Electric Company. (See Berdon, Albert E., assignor.)
- Remy Electric Company. (See Conklin, Oliver F., assignor.)
- Remy Electric Company, The. (See Replogle, James B., assignor.)
- Remy, Henry M., Constancia, Cuba. Cane-planting machine. No. 1,377,929; May 10; v. 286; p. 354.
- Renaudin, Alfred. (See Burlat, A., and Renaudin.)
- Renault, Joseph W., New Haven, Conn. Train stop and signal system. No. 1,395,142; Oct. 25.
- Renault, Gustave A., Paris, France. Clasp device for articles of apparel. No. 1,401,556; Dec. 27.
- Renault, Louis. (See Fuchs, Ernest, assignor.)
- Renault, Louis. (See Leisse, Pierre L., assignor.)
- Renaux, Charles, Paris, France. Safety device for locks. No. 1,364,452; Jan. 4; v. 282; p. 79.
- Rendall, George F., New York, N. Y., assignor to Carbon Products Company. Combined gas producer and superheater. No. 1,366,213; Jan. 18; v. 282; p. 503.
- Rendall, George F., New York, N. Y., assignor to Carbon Products Company. Distillation. No. 1,376,582; May 3; v. 286; p. 39.
- Rendano, Emil, assignor to Forbes Tubular Products Corporation, Brooklyn, N. Y. Metal-shear. No. 1,372,040; Mar. 22; v. 284; p. 602.
- Rendano, Emil, assignor to Forbes Tubular Products Corporation, Brooklyn, N. Y. Machine for forming tubular bodies. No. 1,394,116; Oct. 18.
- Rendle, Thomas, Ottawa, Ill. Shoe-repairing stand. No. 1,382,546; June 21; v. 287; p. 533.
- Rendle, Thomas A., assignor to Hardinge Brothers, Inc., Chicago, Ill. Watchman's clock-dial holder. No. 1,382,802; June 28; v. 287; p. 636.
- Rendle, Thomas A., and A. Beyer, assignors to Hardinge Brothers, Inc., Chicago, Ill. Watchman's clock. No. 1,387,178; Aug. 9; v. 289; p. 313.
- Rendtorff, Walter, Maywood, Ill. Land and water toy. No. 1,386,425; Aug. 2; v. 289; p. 91.
- Reneau, Charles W., Baton Rouge, La., assignor of one-half to J. R. Bankston, Anguilla, Miss. Boiler-feed-water distributor and cleaner. No. 1,383,153; June 28; v. 287; p. 702.
- Renfro, Leonard E., Fort Worth, Tex. Bushing extractor and inserter. No. 1,369,544; Feb. 22; v. 283; p. 663.
- Renfro, Richard R., assignor of two-thirds to T. A. Clemens, C. Jackson, and L. W. Burton, Shamrock, Okla. Coupling for sucker-rods of oil and water wells. No. 1,372,905; Mar. 29; v. 284; p. 811.
- Renfrow, Earl J., Modesto, Calif. Lock for spare rim and tire carriers. No. 1,379,937; May 31; v. 286; p. 933.
- Renholdt, Charles A., assignor to The Bryant Electric Company, Bridgeport, Conn. Pull-switch. No. 1,400,376; Dec. 13.
- Renken, Anton F., Crete, Nebr. Animal-trap. No. 1,392,797; Oct. 4.
- Renkin, William O., Oradell, N. J., assignor to Quigley Furnace Specialties Co., Inc. Telltale device for closed bins. No. 1,391,504; Sept. 20; v. 290; p. 546.
- Renn, Bernard E., Elston, Mo. Separator. No. 1,372,828; Mar. 29; v. 284; p. 735.
- Renn, George B., Los Angeles, Calif. Sprinkling-hose holder. No. 1,385,472; July 26; v. 288; p. 664.
- Renner, Georg, Dusseldorf, Germany. Flush-cistern. No. 1,386,948; Aug. 9; v. 289; p. 267.
- Renner, William. (See Kohl, M., and Renner, assignor.)
- Renrick, Henry A., Ottawa, Ontario, Canada. Safety water-gage for steam-boilers. No. 1,377,436; May 10; v. 286; p. 259.
- Rennerfelt, Ture G., Stockholm, Sweden. Friction-gearing. No. 1,399,442; Dec. 6.
- Rennie, Edward J. (See Crabb, G. W. J., and Rennie.)
- Rennie, John B., Manchester, England. Metal-cutting tool. No. 1,397,983; Nov. 22.
- Rennie, William, Shadyside, Ohio. Trolley. No. 1,364,208; Jan. 4; v. 282; p. 31.
- Reno, Jesse W., New York, N. Y. Device for raising sunken vessels. No. 1,364,142; Jan. 4; v. 282; p. 18.
- Reno, Jesse W., New York, N. Y. Raising sunken vessels. No. 1,364,143; Jan. 4; v. 282; p. 18.
- Reno, Jesse W., New York, N. Y. Device for raising sunken vessels. No. 1,373,672; Apr. 5; v. 285; p. 56.
- Reno, Jesse W., New York, N. Y. Raising submerged vessels. No. 1,400,316; Dec. 13.
- Reno, Milton C., Corliss, Pa. Lift for flush-valves. No. 1,394,862; Oct. 25.



*Alphabetical list of patentees—Continued.*

- Renos, Frank G., Akron, Ohio. Tire-casing. No. 1,398,975; Dec. 6.
- Renstrom, Eros A., administrator. (See Renstrom, Nils A.)
- Renstrom, Nils A., deceased, Omaha, Nebr., E. A. Renstrom, administrator. Sprouting grain. No. 1,396,235; Nov. 8.
- Renton, Franklin G., Providence, R. I. Taper-gaging caliper. No. 1,389,381; Aug. 30; v. 289; p. 913.
- Renton Heel Company. (See Cutts, Richard, assignor.)
- Rentz, George M., Wells, Minn. Phonograph. No. 1,375,730; Apr. 26; v. 285; p. 589.
- Renwick, Frank F., Brentwood, and O. Bloch, London, assignors to Iford Limited, Iford, England. Color-sensitized photographic material. No. 1,372,548; Mar. 22; v. 284; p. 699.
- Renz, Joseph P., Brooklyn, N. Y. Counter and stacker for sheet material. No. 1,366,938; Feb. 1; v. 283; p. 11.
- Renz, Otto P., Chicago, Ill. Advertising device. No. 1,384,568; July 12; v. 288; p. 321.
- Repert, Walter B., Dunkirk, N. Y. Chiropractic table. No. 1,376,229; Apr. 26; v. 285; p. 684.
- Replogle, James B., Detroit, Mich., assignor to The Remy Electric Company. Speed-limiting device. No. 1,366,263; Jan. 18; v. 282; p. 513.
- Replogle, James B., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Spark-coil and making same. No. 1,367,988; Feb. 8; v. 283; p. 274.
- Replogle, James B., Detroit, Mich., assignor to The Remy Electric Company. Regulating device. No. 1,398,648; Nov. 29.
- Replogle, James B., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Regulating device for dynamo-electric machines. No. 1,401,492; Dec. 27.
- Replogle, James B., Detroit, Mich., assignor to The Remy Electric Company. Induction-coil. No. 1,401,493; Dec. 27.
- Replogle, Mark A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Method and apparatus for treating selvage. No. 1,375,468; Apr. 19; v. 285; p. 506.
- Replogle, Mark A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tension device. No. 1,380,837; June 7; v. 287; p. 98.
- Replogle, Mark A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-finishing mechanism. No. 1,385,975; July 26; v. 288; p. 765.
- Repony, Daniel, Passaic, N. J., assignor to The Manhattan Rubber Mfg. Company. Compounding lubricated sulfur and rubber and vulcanizing. No. 1,372,041; Mar. 22; v. 284; p. 603.
- Reppe, Sever C., Los Angeles, Calif. Toy machine-gun. No. 1,379,126; May 24; v. 286; p. 707.
- Reppenhagen, Frederick J., *et al.* (See Trova, Oswald, assignor.)
- Reppetto, Harvey B., assignor to Whitaker-Glessner Company, Wheeling, W. Va. Collapsible sheet-metal oven. No. 1,396,059; Nov. 8.
- Repplier, James M., *et al.*, trustees. (See Milliken, Foster, assignor.)
- Republic Flow Meters Company. (See Spitzglass, Jacob M., assignor.)
- Republic Tool and Manufacturing Company, The. (See Clark, D. A., and Lowe, assignors.)
- Republic Tool Products Company, The. (See Black, Charles F., assignor.)
- Re Qua, Frederick L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Current-regulator. No. 1,390,543; Sept. 13; v. 290; p. 289.
- Resch, Henry, Bayonne, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,370,046; Mar. 1; v. 284; p. 55.
- Resch, Joseph M., Vallejo, Calif. Automatic camera. No. 1,371,440; Mar. 15; v. 284; p. 430.
- Research Corporation. (See Bradley, Linn, assignor.)
- Research Corporation. (See Cleverger, Galen H., assignor.)
- Research Corporation. (See Kennard, Harold J., assignor.)
- Resek, Marc. (See Chadwick, L. S., and Resek.)
- Resolute Manufacturing Company. (See McCuen, Charles L., assignor.)
- Respass, John B., Washington, N. C. Rail-fastener. No. 1,395,596; Nov. 1.
- Respass, Roland B., New York, N. Y. Unwoven fabric and making the same. No. 1,365,061; Jan. 11; v. 282; p. 239.
- Restein, Louise K., Philadelphia, Pa. Game or toy. No. 1,385,642; July 26; v. 288; p. 699.
- Restrepo, Apolinar, Medellin, Colombia. Copy-holder. No. 1,375,731; Apr. 26; v. 285; p. 589.
- Reitenmeyer, Frederick W., assignor to The Napier-Bliss Company, Meriden, Conn. Mesh-bag. No. 1,399,576; Dec. 6.
- Rettler, John J. (See Sterling, C. W., and Rettler.)
- Reubenstone, Abraham, New York, N. Y. Call-registering attachment for telephones. No. 1,366,024; Jan. 18; v. 282; p. 466.
- Reuser, Paulus J., Amsterdam, Netherlands. Aeroplane. No. 1,389,163; Aug. 30; v. 289; p. 870.
- Reuter, Fredereck J., Oakland, Calif. Toy vehicle. No. 1,398,392; Nov. 29.
- Reuter, Henry C., assignor to Block & Reuter, Chicago, Ill. Stove. No. 1,390,544; Sept. 13; v. 290; p. 239.
- Reutlinger, Emile C., Boston, Mass. Water-motor. No. 1,382,237; June 21; v. 287; p. 473.
- Revel, Francesco, Turin, and A. Boldorini, Milan, Italy. Electric steam-generator. No. 1,368,212; Feb. 8; v. 283; p. 317.
- Reveny, Charles G., San Francisco, Calif. Bolting-up device. No. 1,371,396; Mar. 15; v. 284; p. 422.
- Revere Rubber Company. (See Davis, Laurence R., assignor.)
- Revere Rubber Company, The. (See Fisher, George F., assignor.)
- Revere Rubber Company. (See Mitzel, Harvey F., assignor.)
- Revere Rubber Company. (See Scribner, Edward H., and Bell, assignors.)
- Revere Rubber Company. (See Stewart, William E., assignor.)
- Revill, Edward M. B. (See Willoughby, E. F., and Revill.)
- Revolver Company. (See Boehck, William E., assignor.)
- Rew, William O., Eureka, Calif. Machine for forming and wrapping small packages of butter. No. 1,384,921; July 19; v. 288; p. 474.
- Rew, William O., Eureka, assignor to California Central Creameries, San Francisco, Calif. Desiccator. No. 1,392,656; Oct. 4.
- Rex, Chauncey B. H. (See Hawkins, Thomas, assignor.)
- Rex Company, The. (See Gifford, Bert L. and E. B., assignors.)
- Rex Typewriter Company. (See Henry, Hubert K., assignor.)
- Rexicker, John G., Batavia, N. Y. Making shoes. No. 1,370,997; Mar. 8; v. 284; p. 281.
- Rey, Henri D., Avarua, Island of Raratonga, New Zealand. Vehicle-wheel. No. 1,385,710; July 26; v. 288; p. 713.
- Rey, Henri D., Avarua, Raratonga, New Zealand. Wheel. No. 1,387,179; Aug. 9; v. 289; p. 313.
- Reyburn, John R., Fairfield, Conn., assignor to American Chain Company, Inc. Clamp for attaching automobile buffers. No. 1,380,741; June 7; v. 287; p. 79.
- Reyburn, John R., Fairfield, Conn., assignor to American Chain Company, Inc. Support for vehicle-bumpers. No. 1,399,520; Dec. 6.
- Reyes, Benjamin C., assignor of one-half to M. J. Roos, San Antonio, Tex. Trousers. No. 1,380,681; June 7; v. 287; p. 68.
- Reymond, Martin H., Anderson, Ind. Molding or shaping parts in molds or dies. No. 1,380,250; May 31; v. 286; p. 992.
- Reynard, John, Omaha, Nebr. Traffic-signal. No. 1,374,471; Apr. 12; v. 285; p. 253.
- Reynolds, Albert, San Jose, Calif. Fish-cleaning machine. No. 1,369,302; Feb. 22; v. 283; p. 615.
- Reynolds, Anita S., Greenwich, Conn. Lift-indicator for flying-machines. No. 1,387,514; Aug. 16; v. 289; p. 432.
- Reynolds, Arthur M. (See Klug, A. A., and Reynolds.)
- Reynolds, Arthur W., assignor of one-half to E. Benedict, Newtown, Conn. Tractor-plow. No. 1,381,662; June 14; v. 287; p. 305.
- Reynolds, Carrie E., executrix. (See Reynolds, Henry E.)
- Reynolds, Drew, Marion, Ill. Telescopic handle for combined scrapers and tampers. No. 1,365,851; Jan. 18; v. 282; p. 432.
- Reynolds, Edward T., Chico, Calif. Traveling bleaching-frame. No. 1,376,290; Apr. 26; v. 285; p. 696.
- Reynolds, Edwin, Vineland, N. J. Reversible temple member for spectacles. No. 1,394,863; Oct. 25.
- Reynolds, Edwin H., Brooklyn, N. Y., and R. E. Bleazard, Fall River, Mass. Attachment for typewriters. No. 1,397,454; Nov. 15.
- Reynolds, Ethan L. (See Klug, A. A., and Reynolds.)
- Reynolds, Frank P., assignor to Ballard Knitting Co., Norristown, Pa. Take-up mechanism for knitting-machines. No. 1,393,039; Oct. 11.
- Reynolds, Harry A., Ford City, Pa., assignor to Pittsburgh Plate Glass Company. Machine for rolling plate-glass. No. 1,375,014; Apr. 19; v. 285; p. 420.
- Reynolds, Harry R., assignor to The Fafnir Bearing Company, New Britain, Conn. Shaft-hanger bearing. (Re-issue.) No. 15,187; Sept. 6; v. 290; p. 140.
- Reynolds, Henry E., deceased, Braintree, Mass., C. E. Reynolds, executrix. Fare receiving and registering apparatus. No. 1,401,732; Dec. 27.
- Reynolds, Howard. (See Wood, W. M., and Reynolds.)
- Reynolds, James E., Birmingham, assignor to Clayton-Wright Limited, Birmingham, Warwick, England. Horn for use on road-vehicles and like purposes. No. 1,366,493; Jan. 25; v. 282; p. 602.
- Reynolds, James L., Scottsdale, Pa. Weaving-machine. No. 1,392,657; Oct. 4.
- Reynolds, James O., Evansville, Ind. Wrench. No. 1,373,022; Mar. 29; v. 284; p. 835.
- Reynolds, James W., and F. Derowitsch, Chester, Nebr. Rail-joint. No. 1,365,759; Jan. 18; v. 282; p. 421.
- Reynolds, John N. (See Bullard, A. M., and Reynolds.)
- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Terminal bank for selectors. No. 1,367,833; Feb. 8; v. 283; p. 245.



## Alphabetical list of patentees—Continued.

- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,375,230; Apr. 19; v. 285; p. 461.
- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic switching apparatus for telephone-exchange systems. No. 1,385,756; July 5; v. 288; p. 104.
- Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,357,180; Aug. 9; v. 289; p. 313.
- Reynolds, Joseph S., Carpinteria, Calif. Automatic road and surface scraper. No. 1,368,838; Feb. 15; v. 283; p. 488.
- Reynolds, Joy S., assignor to Reynolds Torch Manufacturing Company, Seattle, Wash. Cutting and welding torch. No. 1,369,545; Feb. 22; v. 283; p. 663.
- Reynolds Manufacturing Company. (See Wilbur, Frederick H., assignor.)
- Reynolds, Ralph V., Chicago, Ill. Metal clothes-hanger. No. 1,383,025; June 28; v. 287; p. 678.
- Reynolds, Perry J. D., Pontiac, Mich. Powder-dispensing receptacle. No. 1,366,279; Jan. 18; v. 282; p. 516.
- Reynolds, Reginald, London, England. Note-sheet. No. 1,364,645; Jan. 4; v. 282; p. 115.
- Reynolds, Reginald, Riverside, Conn. Thread package or holder. No. 1,375,015; Apr. 19; v. 285; p. 420.
- Reynolds, Reginald, Barnes, London, England. Typewriter and the like. No. 1,383,757; July 5; v. 288; p. 104.
- Reynolds, Richard S., Louisville, Ky. Tobacco-bag. No. 1,371,934; Mar. 15; v. 284; p. 525.
- Reynolds, Richard, and H. Gibbs, Birkenhead, England. Heavy-traction attachment suitable for motor road-vehicles. No. 1,383,566; July 5; v. 288; p. 63.
- Reynolds, Robert V. R., Washington, D. C. Mounting for telescope gun-sights. No. 1,386,027; Aug. 2; v. 289; p. 13.
- Reynolds, Roger N., Atlanta, Ga., and B. D. Ballew, Greenville, S. C.; said Ballew assignor of one-half of his right to Sidney Baxter, Atlanta, Ga. Picker-staff check for looms. No. 1,385,924; July 26; v. 288; p. 755.
- Reynolds, Rohde, Houston, Tex. Vehicle-signal. No. 1,367,989; Feb. 8; v. 283; p. 274.
- Reynolds, Roy P., Harrisonville, Mo. Adjustable tappet-wrench. No. 1,385,228; July 19; v. 288; p. 538.
- Reynolds Spring Company. (See Van Hove, Desire H., assignor.)
- Reynolds-Tait, Joseph S. G., et al. (See Rowe John J., assignor.)
- Reynolds Torch Manufacturing Company. (See Reynolds, Joy S., assignor.)
- Reynolds, William G., Chicago, Ill. Printing-machine. No. 1,376,640; May 3; v. 286; p. 49.
- Reynolds, William C., Remus, Mich. Seed-potato cutter. No. 1,391,505; Sept. 20; v. 290; p. 546.
- Reznicek, Anton, Jersey City, N. J. Door-fastener. No. 1,371,518; Mar. 15; v. 284; p. 446.
- Reznicek, Karl, New York, N. Y. Rotary nozzle. No. 1,368,055; Feb. 8; v. 283; p. 286.
- Reznor, George F., Mercer, Pa. Metal punching and bending machine. No. 1,374,324; Apr. 12; v. 285; p. 223.
- Reznor, George F., Mercer, Pa. Oil-heater. No. 1,392,525; Oct. 4.
- Rhead, Harry, Trenton, N. J. Direction-signal. No. 1,382,238; June 21; v. 287; p. 473.
- Rhedmon, Thomas H., Meadville, Pa. Adjustable stand. No. 1,393,165; Oct. 11.
- Rheim, Louis J., and R. A. Rehrauer, Two Rivers, Wis. Slidable retaining means for hairpins, combs, and the like. No. 1,378,134; May 17; v. 286; p. 445.
- Rhein, Louis J., and R. A. Rehrauer, Two Rivers, Wis. Retaining means for hairpins, combs, and the like. No. 1,397,804; Nov. 22.
- Rheinberg, Julius, London, England. Light-sensitive colloid-coating mixture and film. No. 1,369,592; Nov. 8.
- Rheinberg, Julius, London, England. Production of reflecting-surfaces on glass by means of metals in the platinum group. No. 1,385,229; July 19; v. 288; p. 539.
- Rheinische Metallwarenfabrik Gebr. Schumacher G. m. b. H. (See Thyssen, Conrad, assignor.)
- Rheinische Metallwaren- und Maschinenfabrik. (See Völler, Karl, assignor.)
- Rhenstrom, Anthony, Kenosha, Wis., assignor, by mesne assignments, of one-half to C. O. Grafton, Muncie, Ind. Semi-automatic machine for forming bed-spring fabrics. No. 1,390,814; Sept. 13; v. 290; p. 344.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Tension mechanism for textile and other machines. No. 1,366,100; Jan. 18; v. 282; p. 481.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Terry-loom. No. 1,366,939; Feb. 1; v. 283; p. 12.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Stripping mechanism for automatic weft-replenishing looms. No. 1,366,940; Feb. 1; v. 283; p. 12.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Builder-motion for spinning or winding machines. No. 1,367,670; Feb. 8; v. 283; p. 213.
- Rhoades, Alonzo E., Hopedale, Mass., assignor to Draper Corporation. Friction-reducer for loom-shafts. No. 1,374,325; Apr. 12; v. 285; p. 324.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Handwheel for looms and other machines. No. 1,380,159; May 31; v. 286; p. 916.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Warp stop-motion for looms. No. 1,385,711; July 26; v. 288; p. 713.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,393,397; Oct. 11.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Transferring mechanism for automatic filling-replenishing looms. No. 1,395,010; Oct. 25.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Battery mechanism for automatic filling replenishing looms. No. 1,395,011; Oct. 25.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Filling-severing means for automatic filling-replenishing looms. No. 1,395,012; Oct. 25.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,396,665; Nov. 8.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Spinning or winding machine. No. 1,397,905; Nov. 22.
- Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Hand-wheel mechanism for looms and other machines. No. 1,401,098; Dec. 20.
- Rhoades Harvester Company. (See Lewis, Fred G., assignor.)
- Rhoads, Edgar G. (See Halvorsen, O. G., Hudson, and Rhoads.)
- Rhoads, Howard F., Winston-Salem, N. C., assignor of one-third to John A. Powell, Middletown, Ohio. Insect attracting and exterminating device. No. 1,375,016; Apr. 19; v. 285; p. 420.
- Rhoads, William M., assignor to Penn Publishing Company, Philadelphia, Pa. Book-cover. No. 1,397,605; Nov. 22.
- Rhode, Erwin F. (See Grimm, R., and Rhode.)
- Rhode, Fred C., Fairview, Mont. Combined jack and rim-contractor. No. 1,392,355; Oct. 4.
- Rhodehamel, Hartley W., assignor to The Eli Lilly and Company, Indianapolis, Ind. Suppository. No. 1,366,941; Feb. 1; v. 283; p. 12.
- Rhodes, Austin D., Waltham, Mass., assignor to American Lacing Hook Co. Gage for positioning sheet material. No. 1,375,641; Apr. 19; v. 285; p. 340.
- Rhodes, Daniel S., Gloversville, N. Y. Rethreading-tool. No. 1,392,705; Oct. 4.
- Rhodes, Elijah, Huntington, W. Va. Drenching-bottle. No. 1,383,426; July 5; v. 288; p. 35.
- Rhodes, Ernest, assignor to Standard Furniture Company, Herkimer, N. Y. Stop for desk-slides and the like. No. 1,397,782; Nov. 22.
- Rhodes, Frederick H. (See Miller, S. P., and Rhodes.)
- Rhodes, George E., Haxtum, Colo. Cylinder-grinding device. No. 1,382,319; June 21; v. 287; p. 489.
- Rhodes Harvester Company. (See Lewis, Fred G., assignor.)
- Rhodes, John, assignor of one-half to H. H. Clark, Seattle, Wash. Oil-burner. No. 1,382,239; June 21; v. 287; p. 474.
- Rhodes, John E., Teaneck, N. J. Telephone attachment. No. 1,370,152; Mar. 1; v. 284; p. 75.
- Rhodes, John M. (See Hessing, Lawrence W., assignor.)
- Rhodes, Joseph C. G. E. Guffey, and J. G. Sheehan, Danville, Ky. Brake. No. 1,372,549; Mar. 22; v. 284; p. 699.
- Rhodes, Joseph M., Halls, Tenn. Ice-box. No. 1,385,274; July 19; v. 288; p. 547.
- Rhodes, M. M., & Sons Company. (See Tobey, Charles W., assignor.)
- Rhodes, Marshall C., Ashland, La. Vending-machine. No. 1,372,550; Mar. 22; v. 284; p. 700.
- Rhodes, Roy J. (See Gillis, J. B., Rhodes, and Lowe.)
- Rhodes, William A., New York, N. Y., assignor to American Telephone and Telegraph Company. Machine ringing system. No. 1,370,558; Mar. 8; v. 284; p. 198.
- Rhodes, William A., assignor to American Telephone and Telegraph Company, New York, N. Y. Desk-operator's circuits. No. 1,372,042; Mar. 22; v. 284; p. 603.
- Rhodes, William A., New York, N. Y., assignor to American Telephone and Telegraph Company. Testing apparatus for message-registers. No. 1,379,650; May 31; v. 286; p. 880.
- Rhodes, William A., New York, N. Y., and F. E. Anderson, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,387,181; Aug. 9; v. 289; p. 314.
- Rhodes, William A., New York, N. Y., assignor to American Telephone and Telegraph Company. Desk-operator's circuits. No. 1,389,596; Sept. 6; v. 290; p. 7.
- Rhodes, William A., assignor to American Telephone and Telegraph Company, New York, N. Y. Desk-operator's circuits. No. 1,390,545; Sept. 13; v. 290; p. 290.
- Rhodes, William A., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrothermal relay. No. 1,399,226; Dec. 6.



*Alphabetical list of patentees—Continued.*

- Rhonemus, Clarence A. (See Callard, R. P., and Rhonemus.)
- Rhonemus, Clarence A., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-drawing machine. No. 1,391,405; Sept. 20; v. 290; p. 526.
- Rhonemus, Clarence A., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-drawing apparatus. No. 1,391,406; Sept. 20; v. 290; p. 526.
- Rhorer, Homer M., and J. T. Davis, Tulsa, Okla. Cable-shackle. No. 1,401,494; Dec. 27.
- Rial, Wirt D., assignor to Marland Refining Company, Ponca City, Okla. Still. No. 1,390,386; Sept. 13; v. 290; p. 257.
- Rian, Sverre, Darlington, Wis. Combination stencil-sheet. No. 1,369,470; Feb. 22; v. 283; p. 648.
- Riba, Paul, Philadelphia, Pa. Tensiometer. No. 1,380,251; May 31; v. 286; p. 992.
- Ribeiro, Alberto L., Camden, N. J. Folding chair. No. 1,381,136; June 14; v. 287; p. 208.
- Ribeiro, Luiz, Fall River, Mass. Latch for cabinet-closures. No. 1,377,437; May 10; v. 286; p. 259.
- Riblet, Byron C. (See Riblet, Royal N., assignor.)
- Riblet, Royal N., assignor of one-half to B. C. Riblet, Spokane, Wash. Reversible switch-rail. No. 1,373,637; Apr. 5; v. 285; p. 50.
- Riblet, Royal N., assignor of one-half to B. C. Riblet, Spokane, Wash. Cable-repair device. No. 1,389,785; Sept. 6; v. 290; p. 45.
- Ricard, Eloi, Melle, France. Manufacture of acetone. No. 1,385,888; July 26; v. 288; p. 749.
- Ricardo, Harry R., London, England. Carbureter for internal-combustion engines. No. 1,371,397; Mar. 15; v. 284; p. 422.
- Ricardo, Harry R., London, England. Piston for internal-combustion engines. No. 1,377,438; May 10; v. 286; p. 259.
- Ricardo, Harry R., London, England. Mechanism for the driving of cam-shafts of internal-combustion engines. No. 1,392,597; Oct. 4.
- Ricco, Ernesto, New York, N. Y. Hat-retainer. No. 1,373,351; Mar. 29; v. 284; p. 900.
- Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. Method of and apparatus for amplification of small currents. No. 1,401,644; Dec. 27.
- Rice, Cyrus W. (See Dake, Charles W., assignor.)
- Rice, Felix E., and W. A. Rush, Northampton, England. Insole for boots and shoes. No. 1,374,030; Apr. 5; v. 285; p. 127.
- Rice, Frank E., assignor to American Tap Bush Co., Detroit, Mich. Coupling-ring. No. 1,364,313; Jan. 4; v. 282; p. 52.
- Rice, Frank E., assignor to American Tap Bush Co., Detroit, Mich. Tap-attaching device. No. 1,386,949; Aug. 9; v. 289; p. 268.
- Rice, George H., assignor to Arlington Refrigerator Company, Inc., Arlington, Vt. Refrigerator-door. No. 1,384,852; July 19; v. 288; p. 461.
- Rice, George L., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Tension device for winding and reeling machines. No. 1,385,925; July 26; v. 288; p. 755.
- Rice, Harold G., Chicago, Ill. Bottle-capper. No. 1,376,583; May 3; v. 286; p. 39.
- Rice, Harold G., Chicago, Ill. Bottle-capper. (Reissue.) No. 15,222; Nov. 8.
- Rice, Harvey T., Norfolk, N. Y. Collapsible shaft. No. 1,392,798; Oct. 4.
- Rice, Hugh, Yonkers, N. Y. Third-rail-bracket-clamp cap. No. 1,383,236; June 28; v. 287; p. 718.
- Rice, James M., Lineville, Ala. Machine for dressing stone. No. 1,396,144; Nov. 8.
- Rice, John, Salineville, Ohio. Welding-rod holder. No. 1,377,792; May 10; v. 286; p. 327.
- Rice, John B., Uniontown, Pa. Luggage-carrier for automobiles. No. 1,390,387; Sept. 13; v. 290; p. 258.
- Rice, Martin H., Moline, Ill. Turntable. No. 1,384,569; July 12; v. 288; p. 321.
- Rice, Milo E., Kansas City, Mo. Cordless ankle-joint. No. 1,382,855; June 28; v. 287; p. 646.
- Rice, Nathan F., Chicago, Ill. Valve-pad for pneumatic tires. No. 1,395,731; Nov. 1.
- Rice, Oliver M., Birmingham, Ala. Demountable-automobile-rim tool. No. 1,374,031; Apr. 5; v. 285; p. 127.
- Rice, Oliver M., Birmingham, Ala. Automobile demountable-rim tool. No. 1,383,856; July 5; v. 288; p. 124.
- Rice, Oliver M., Birmingham, Ala. Tool for demountable rims. No. 1,398,801; Nov. 29.
- Rice, Percy F., Tustin, Calif. Engine-lubricating device. No. 1,394,117; Oct. 18.
- Rice, Richard S., Petersburg, Va. Horseshoe-calk. No. 1,367,430; Feb. 1; v. 283; p. 109.
- Rice, Samuel B., Richmond, Va. Means for short-circuiting block-signaling systems. No. 1,377,439; May 10; v. 286; p. 260.
- Rice, Sherwood P., and M. E. Michell, Detroit, Mich. Radiator-cap lock. No. 1,387,313; Aug. 9; v. 289; p. 340.
- Rice, Stephen, Omaha, Nebr. Tire. No. 1,398,574; Nov. 29.
- Rice, Valentine B., Bethlehem, Pa. Brake-beam fulcrum. No. 1,368,352; Feb. 15; v. 283; p. 393.
- Rice, Wallace C., Omaha, Nebr. Caster. No. 1,373,352; Mar. 29; v. 284; p. 900.
- Rich, Elmer A., Jr., Chicago, Ill., assignor to The American Foundry Equipment Company, New York, N. Y. Sand-blast machine. No. 1,377,993; May 10; v. 286; p. 365.
- Rich, Frank E., assignor to Miehle Printing Press and Mfg. Co., Chicago, Ill. Gripper mechanism. No. 1,384,778; July 19; v. 288; p. 446.
- Rich, Frank J., administrator. (See Thomas, Charles P.)
- Rich, G. Willard, trustee. (See Lederer, Carl F., assignor.)
- Rich, Malcolm N. (See Bezzenberger, F. K., and Rich.)
- Rich Tool Company. (See Sullivan, William B., assignor.)
- Rich, Vern, Mount Vernon, S. D. Punching-machine. No. 1,382,674; June 28; v. 287; p. 611.
- Richard, Clarence A. (See Richard, Clement C., C. A., and O. K.)
- Richard, Clement C., C. A., and O. K., Detroit, Mich. Punch and die retainer. No. 1,393,040; Oct. 11.
- Richard, Elie, Quebec, Quebec, Canada. Leather-press. No. 1,375,469; Apr. 19; v. 285; p. 507.
- Richard, Emil, Pittsburgh, Pa. Pin-fastener. No. 1,369,355; Feb. 22; v. 283; p. 627.
- Richard, Fidele F., Moncton, New Brunswick, Canada. Valve-grinder. No. 1,400,000; Dec. 13.
- Richard, Mordecai W. (See Carlson, E., and Richard.)
- Richard, Otis K. (See Richard, Clement C., C. A., and O. K.)
- Richard, Stephen, Jr., Worcester, Mass. Gang-saw multiple rod-cutting machine. No. 1,401,363; Dec. 27.
- Richard, Thomas S. (See Parent, James A., assignor.)
- Richards, Arthur H., Wilkes-Barre, Pa. Clothesline attachment. No. 1,368,839; Feb. 15; v. 283; p. 488.
- Richards, Bernard W., Chicago, Ill. Cut-off for gasoline-feed on motor-vehicles. No. 1,392,449; Oct. 4.
- Richards, Brayton G., Chicago, Ill., assignor to J. Roussio, Los Angeles, Calif. Towel-rack. No. 1,372,811; Mar. 22; v. 284; p. 655.
- Richards, Donald W., San Jose, Calif. Folding cot. No. 1,396,593; Nov. 8.
- Richards, Edwin L., Los Angeles, Calif. Necklace. No. 1,375,176; Apr. 19; v. 285; p. 451.
- Richards, Frank J., Los Angeles, Calif. Carbureter. No. 1,379,127; May 24; v. 286; p. 707.
- Richards, George, assignor to The Richards Thread Milling Machine Company, (1918) Limited, Westminster, London, England. Milling screw-threads. No. 1,365,954; Jan. 18; v. 282; p. 453.
- Richards, George, L. N. Burt, Westminster, London, and J. E. Freeborn, Walthamstown, assignors to The Richards Thread Milling Machine Company, (1918) Limited, Westminster, London, England. Milling screw-threads. No. 1,386,279; Aug. 2; v. 289; p. 63.
- Richards, George A., Pueblo, Colo. Charge-heater for explosive-motors. No. 1,399,321; Dec. 6.
- Richards, Gordon E., Toronto, Ontario, Canada. X-ray photographing appliance. No. 1,374,235; Apr. 12; v. 285; p. 206.
- Richards, Harry D., San Francisco, Calif. Bogie or trolley. No. 1,385,754; July 26; v. 288; p. 722.
- Richards, Howard N., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. No. 1,393,398; Oct. 11.
- Richards, James N. (See Westman, William H. and A. D., and Richards.)
- Richards, John J., Brookline, Mass. Reserve-provider for fuel-tanks. (Reissue.) No. 15,129; June 21; v. 287; p. 545.
- Richards, John R. (See Brueggeman, Frank, assignor.)
- Richards, Julius H., Springfield, Mass., assignor to Eclipse Machine Company, Elmira Heights, N. Y. Engine-starter. No. 1,379,214; May 24; v. 286; p. 723.
- Richards, Laura W., Pawtucket, R. I. Doll. No. 1,384,731; July 12; v. 288; p. 355.
- Richards, Marlon, Sydney, New South Wales, Australia. Dress-pattern-drafting templet. No. 1,385,586; July 26; v. 288; p. 687.
- Richards, Ray S., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Charging device. No. 1,398,649; Nov. 29.
- Richards, Thomas J., Youngstown, Ohio. Automatic electrical heat-treating device. No. 1,385,473; July 26; v. 288; p. 664.
- Richards Thread Milling Machine Company (1918) Limited, The. (See Richards, G., Burt, and Freeborn, assignor.)
- Richards Thread Milling Machine Company, (1918), The. (See Richards, George, assignor.)
- Richards-Wilcox Manufacturing Company. (See Kern, Albert L., assignor.)
- Richards-Wilcox Manufacturing Company. (See Phillips, Ellis J. G., assignor.)
- Richards, Willard F., Depew, and W. R. Richards, assignors to Unity Development Company, Buffalo, N. Y. Automobile-signal. No. 1,372,776; Mar. 29; v. 284; p. 785.
- Richards, Willard R. (See Richards, Willard F., and W. R.)
- Richards, William E., Toledo, Ohio. Trolley-line support. No. 1,373,972; Apr. 5; v. 285; p. 116.
- Richards, William H., Knoxville, Tenn. Pneumatic tire. No. 1,386,204; Aug. 2; v. 289; p. 48.



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- Richardson, Albert J., Joplin, Mo. Dial. No. 1,393,569; Oct. 11.
- Richardson, Allan S., Butte, Mont. Air-shaft for mines. No. 1,381,017; June 7; v. 287; p. 133.
- Richardson, Bayard E., Grand Rapids, Mich. Gear-shifting appliance. No. 1,371,644; Mar. 15; v. 284; p. 470.
- Richardson, Bayard E., assignor to Mechano Gear Shift Company, Grand Rapids, Mich. Differential gearing. No. 1,390,641; Sept. 13; v. 290; p. 310.
- Richardson, Bayard E., assignor to Mechano Gear Shift Co., Grand Rapids, Mich. Clutch. No. 1,396,343; Nov. 8.
- Richardson, Brodie J., and C. S. Barber, Waterbury, Conn. Lift-latch for handbags. No. 1,377,276; May 10; v. 286; p. 227.
- Richardson, Brodie J., and C. S. Barber, Waterbury, Conn. Lock-latch for handbags. No. 1,392,967; Oct. 11.
- Richardson, Brodie J., and C. S. Barber, Waterbury, Conn. Bag-lock. No. 1,397,455; Nov. 15.
- Richardson, Charles G., assignor to Parks & Woolson Machine Company, Springfield, Vt. Cloth-shearing machine. No. 1,372,978; Mar. 29; v. 284; p. 826.
- Richardson, Charles M., Washington, D. C. Mail-distributing device. No. 1,391,693; Sept. 27; v. 290; p. 657.
- Richardson Corporation. (See Jacoby, Charles N., assignor.)
- Richardson, De Soto E., Riverside, Wash. Case-hardening compound and using same. No. 1,379,722; May 31; v. 286; p. 893.
- Richardson, Earl E. (See Price, S. C., and Richardson.)
- Richardson, Edward L., Brooklyn, N. Y. Suspended trousers-protector. No. 1,395,772; Nov. 1.
- Richardson, Emma C., Ridgefield Park, N. J. Toy. No. 1,375,608; Apr. 19; v. 285; p. 533.
- Richardson, Frank, Kansas City, Mo. Lifting-tongs. No. 1,365,196; Jan. 11; v. 282; p. 265.
- Richardson, George J., Ceres, Calif. Cover for cooking utensils. No. 1,384,851; July 19; v. 288; p. 461.
- Richardson, George J., New York, N. Y., assignor to National Sanitary Street System, Incorporated. Combined trash-receptacle and advertising medium. No. 1,364,209; Jan. 4; v. 282; p. 31.
- Richardson, George J., New York, N. Y., assignor to National Sanitary Street System, Incorporated. Combined trash-receptacle and advertising medium. No. 1,380,252; May 31; v. 286; p. 992.
- Richardson, George L. and W. E., Chicago, Ill. Dispenser. No. 1,373,973; Apr. 5; v. 285; p. 116.
- Richardson, George R., Allston, Mass. Automatic valve-controller. No. 1,368,455; Feb. 15; v. 283; p. 413.
- Richardson, Henry, Passaic, N. J. Car-unloader. No. 1,364,808; Jan. 4; v. 282; p. 147.
- Richardson, Jas. S., administratrix. (See Neely, William A.)
- Richardson, John H., Melrose, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for trimming soles. No. 1,392,799; Oct. 4.
- Richardson, John H., Melrose Highlands, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Last-pulling machine. No. 1,398,344; Nov. 29.
- Richardson, John J. (See Yoxall, H. S., and Richardson.)
- Richardson, John M., Milwaukee, Wis. Davenport. No. 1,366,419; Jan. 25; v. 282; p. 587.
- Richardson, John M., Milwaukee, Wis. Davenport. No. 1,383,485; July 5; v. 288; p. 47.
- Richardson, Led L. (See Hoskin, William, assignor.)
- Richardson, Maurice F. (See Kauffmann, George J., assignor.)
- Richardson, Oscar W., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp-stop-motion-assembling device. No. 1,372,312; Mar. 22; v. 284; p. 655.
- Richardson, Richard, Bedford, Nova Scotia, Canada. Hoop-forming machine. No. 1,369,982; Mar. 1; v. 284; p. 43.
- Richardson, Robert N., Los Angeles, Calif. Sleeping-compartment. No. 1,375,417; Apr. 19; v. 285; p. 497.
- Richardson, Thomas D., Cheyenne, Wyo. Nail-extractor. No. 1,395,522; Nov. 1.
- Richardson, Thomas H., Lexington, N. C. Cleaning apparatus. No. 1,393,641; Oct. 11.
- Richardson, Walter E. (See Richardson, George L. and W. E.)
- Richardson, William W., London, England. Apparatus for classifying and concentrating minerals, ores, and the like, also applicable to the requirements of mineral-dredging. No. 1,374,472; Apr. 12; v. 285; p. 253.
- Riche, J. P. (See Tucker, Arthur W., assignor.)
- Riche, Frederick F., Troy, N. Y. Male urinal bag. No. 1,389,531; Aug. 30; v. 289; p. 943.
- Richendier, Harman L., Bladen, Nebr. Lawn-mower. No. 1,382,441; June 21; v. 287; p. 513.
- Richer, Joseph R., and J. O. Hessler, assignors to Star Tool and Manufacturing Company, Chicago, Ill. Pump. No. 1,401,443; Dec. 27.
- Richey, Albert S., Worcester, Mass. Mechanism for computing vehicle-travel. No. 1,369,471; Feb. 22; v. 283; p. 649.
- Richey, Frank W., assignor to W. F. Richey, Chicago, Ill. Display-clip. No. 1,390,163; Sept. 6; v. 290; p. 122.
- Richey, James D., Corpus Christi, Tex. Safety oil-can. No. 1,385,712; July 26; v. 288; p. 714.
- Richey, James I., Cincinnati, Ohio. Means for lubricating leaf-springs. No. 1,399,152; Dec. 6.
- Richie, David R. (See Allen, C. J., Howard, and Richie.)
- Richie, David R., Lansdowne, Pa., assignor to S. L. Allen & Co., Inc. Tractive lug. No. 1,395,997; Nov. 1.
- Richie, James K., Butler, Pa. Illuminator for lamps and switches. No. 1,367,891; Feb. 8; v. 283; p. 256.
- Richman, Wallace C., Butte, Mont. Concrete building structure. No. 1,393,966; Oct. 18.
- Richman, Walter A., Egg Harbor, N. J. Toy. No. 1,388,059; Aug. 16; v. 289; p. 539.
- Richman, Walter A., Egg Harbor, N. J. Record-lifting device. No. 1,390,546; Sept. 13; v. 290; p. 290.
- Richman, Walter H., Philadelphia, Pa. Container. No. 1,395,298; Nov. 1.
- Richman, Wilbert, Bridgeton, N. J. Wheelbarrow. No. 1,383,026; June 28; v. 287; p. 678.
- Richmond, Charles, Smyrna, Mich. Animal-trap. No. 1,372,906; Mar. 29; v. 284; p. 812.
- Richmond, Frank B., Camden, N. J. Muffler. No. 1,365,852; Jan. 18; v. 282; p. 433.
- Richmond, Henry E., Bennington, Vt. Child's table. No. 1,391,008; Sept. 20; v. 290; p. 446.
- Richmond Radiator Company. (See Haskins, Elbert O., assignor.)
- Richmond, Vincent C., Harrow-on-the-Hill, England. Gas-stopping lining for use in aircraft and medium for fixing same. No. 1,378,804; May 17; v. 286; p. 573.
- Richter, Alfred. (See Geib, Carl A., assignor.)
- Richter, George A. (See Burningham, F. A., Richter, Van Arsdel, and White.)
- Richter, George A., assignor to Brown Company, Berlin, N. H. Making calcium bisulfite. No. 1,378,616; May 17; v. 286; p. 537.
- Richter, George A., assignor to Brown Company, Berlin, N. H. Making calcium-bisulfite cooking liquor. No. 1,378,617; May 17; v. 286; p. 537.
- Richter, George A., W. B. Van Arsdel, and D. H. White, assignors to Brown Company, Berlin, N. H. Waterproof fibrous material and making the same. No. 1,396,060; Nov. 8.
- Richter, George A., W. B. Van Arsdel and D. H. White, assignors to Brown Company, Berlin, N. H. Water-repellent composition. No. 1,396,527; Nov. 8.
- Richter, Gustaf F., Brooklyn, N. Y. Tonsil-remover. No. 1,375,177; Apr. 19; v. 285; p. 451.
- Richter, Gustaf F., Brooklyn, N. Y. Tonsil-remover. No. 1,375,178; Apr. 19; v. 285; p. 451.
- Richter, Herman F., Los Angeles, Calif. Hydrocarbon-burner. No. 1,388,604; Aug. 23; v. 289; p. 704.
- Richter, Julius, et al. (See Erler, Bruno G., assignor.)
- Richter, Willy, Olmsted, Ill. Fluid-gage. No. 1,391,077; Sept. 20; v. 290; p. 460.
- Rightmyer, Floyd K., Ithaca, N. Y. High-resistance unit. No. 1,388,373; Aug. 23; v. 289; p. 660.
- Ricigliano, Anthony, Buffalo, N. Y. Signaling device. No. 1,388,060; Aug. 16; v. 289; p. 539.
- Rick, John, and J. Motowski, assignors of one-third to E. A. Mock, Milwaukee, Wis. Railway appliance. No. 1,382,240; June 21; v. 287; p. 474.
- Ricke, George H., Cincinnati, assignor to A. McNeill, Norwood, Ohio. Safety attachment for flying-machines. No. 1,382,599; June 21; v. 287; p. 543.
- Ricker, Chester S., assignor to The Oakes Co., Indianapolis, Ind. Bearing. No. 1,373,974; Apr. 5; v. 285; p. 117.
- Rickert, Emma, Aurora, Ill. Waist. No. 1,366,942; Feb. 1; v. 283; p. 12.
- Ricketson, William E., New York, N. Y., assignor to The Okadee Company, Chicago, Ill. Hinge for boiler-fronts. (Reissue.) No. 15,142; July 5; v. 288; p. 161.
- Ricketts, Gilbert M., Columbus, Ohio. Bicycle or similar wheel. No. 1,382,122; June 21; v. 287; p. 452.
- Ricketts, James R., Kansas City, Mo. Trolley-catcher. No. 1,393,570; Oct. 11.
- Ricketts, Joseph W., Detroit, Mich. Pneumatic wheel. No. 1,391,407; Sept. 20; v. 290; p. 527.
- Rickey, Ignas, Rochester, N. Y. Manufacturing shoes and a shoe made by such method. No. 1,394,933; Oct. 25.
- Ricks, William S., and E. R. Dewberry, Searcy, Ark. Churn. No. 1,364,453; Jan. 4; v. 282; p. 79.
- Riddell, Austin A. (See Fox, W. R., and Riddell.)
- Riddell, George H., assignor to Domestic Sewing Machine Co., Inc., Buffalo, N. Y. Combination sewing-machine and table. No. 1,385,051; July 19; v. 288; p. 502.
- Riddick, Robert C., et al. (See Van Fleet, Charles W., assignor.)
- Riddle, Arthur J., Erie, Pa. Foldable sink-rack. No. 1,373,975; Apr. 5; v. 285; p. 117.
- Riddle, James M., Alamogordo, N. Mex. Rail-lubricator nozzle. No. 1,386,426; Aug. 2; v. 289; p. 91.
- Riddle, Karl, West Palm Beach, Fla. Flat-tire alarm. No. 1,396,284; Nov. 8.
- Riddle, Logan A. and L. R., New Albany, Ind. Wire-stretching apparatus. No. 1,392,079; Sept. 27; v. 290; p. 736.
- Riddle, Lyon R. (See Riddle, Logan A. and L. R.)
- Rideal, Eric K., London, and H. S. Taylor, St. Helens, England. Purification of hydrogen. No. 1,375,932; Apr. 26; v. 285; p. 627.
- Rideal, Eric K., and H. S. Taylor, London, England. Apparatus and process for gas analysis. No. 1,375,933; Apr. 26; v. 285; p. 627.



## Alphabetical list of patentees—Continued.

- Ridenour-Baker Grocery Company. (See Witt, Roscoe P., assignor.)
- Rideout, Arthur E., Chicago, Ill., assignor to National Binding Machine Company, New York, N. Y. Strip-serving device. No. 1,384,090; July 12; v. 288; p. 221.
- Rideout, Joseph M. (See Fillingame, J. E., and Rideout.)
- Rider, Thomas B., Los Angeles, Calif. X-ray tube. No. 1,400,001; Dec. 13.
- Rider, William J., Horley, England. Seat. No. 1,366,943; Feb. 1; v. 283; p. 12.
- Rider, William J., Horley, England. Seat. No. 1,391,275; Sept. 20; v. 290; p. 500.
- Ridgers, Frederick G., Hamilton, Ontario, Canada. Goggles. No. 1,389,985; Sept. 6; v. 290; p. 86.
- Ridgley, Aldas S., Boston, Mass. Bonnet-fastener. No. 1,376,039; Apr. 26; v. 285; p. 647.
- Ridgley, Charles T., Boston, Mass. Demountable wheel. No. 1,365,343; Jan. 11; v. 282; p. 293.
- Ridgley, Charles T., Springfield, Ohio. Spare-wheel carrier for vehicles. No. 1,373,392; Mar. 29; v. 284; p. 907.
- Ridout, Harry C., Bournemouth, England. Mold for making heels, lifts, soles, or other articles from rubber or other material. No. 1,383,857; July 5; v. 288; p. 125.
- Ridout, Horace J., Floresville, Tex. Railway-crossing signal. No. 1,400,458; Dec. 13.
- Riebe, Albert W., Königsberg, Germany. Device for automatically turning over leaves of a book formed with several turning-arms. No. 1,395,143; Oct. 25.
- Riebeth, George H., Minneapolis, Minn. Stock and display case. No. 1,372,829; Mar. 29; v. 284; p. 796.
- Rieck, Edward B. (See Junge, Charles O., assignor.)
- Rieck, John C., Buffalo, N. Y. Burglar-alarm. No. 1,374,684; Apr. 12; v. 285; p. 294.
- Riecken, William E., Glendale, assignor to Western Electric Company, Incorporated, New York, N. Y. Winding-machine. No. 1,381,933; June 21; v. 287; p. 417.
- Riedel, Charles E., Detroit, Mich., assignor to Detroit Automatic Scale Company, Elkhart, Ind. Attachment for scales. No. 1,367,892; Feb. 8; v. 283; p. 256.
- Riedel, Charles E., assignor to Detroit Automatic Scale Company, Detroit, Mich. Combined computing and counting scale. No. 1,379,215; May 24; v. 286; p. 723.
- Riedel, Robert W., Ault, Colo. Dispensing attachment for beverage-mixing devices. No. 1,387,908; Aug. 16; v. 289; p. 510.
- Riedele, Andrew P., St. Cloud, Minn. Ignition system for internal-combustion engines. No. 1,370,670; Mar. 8; v. 284; p. 219.
- Riedy, Walter L., Houghton, Mich. Safety device for hydraulic presses. No. 1,384,348; July 12; v. 288; p. 275.
- Rieff, Clinton W., West Fork, Ark. Tool-handle. No. 1,397,783; Nov. 22.
- Rieff, Edward, et al. (See Beach, Marie, assignor.)
- Rieff, John G., London, Wis. Detachable chain-hook. No. 1,388,305; Aug. 23; v. 289; p. 646.
- Riegel, Benjamin D., trustee. (See Levett, Alexander, assignor.) (Reissue.)
- Riegel, Clarence W., Easton, Pa., assignor to General Chemical Company, New York, N. Y. Carboy-package. No. 1,380,020; May 31; v. 286; p. 949.
- Riegert, George L. (See Shuster, S. L., and Riegert.)
- Riehl, Henry E., Brooklyn, N. Y. Pleasure-railway. No. 1,399,577; Dec. 6.
- Riek, Constance A., Hermann, Mo. Combined fly-swatter and brush. No. 1,393,571; Oct. 11.
- Riel, Peter S., Rochester, N. Y. Door-latch. No. 1,368,573; Feb. 15; v. 283; p. 436.
- Rielly, Joseph A. (See Manny, R. A., and Rielly.)
- Ries, Elias E., New York, N. Y. Method of and apparatus for detecting and locating sounds, &c. No. 1,385,795; July 26; v. 288; p. 730.
- Ries, Kurt F., assignor of one-half to W. I. Ohmer, Dayton, Ohio. Circuit-breaker. No. 1,372,830; Mar. 29; v. 284; p. 796.
- Riesberg, Van V., Philadelphia, Pa. Valve for heating-radiators. No. 1,384,486; July 12; v. 288; p. 304.
- Riesefeld, Ernst H., Freiburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making wood alcohol from methane. No. 1,379,362; May 24; v. 286; p. 751.
- Rieser-Beutter, Anna H., et al. (See Fahrni, Otto, assignor.)
- Rietz, Eduard, São Paulo, Brazil. Manufacture of white clouded glasses, enamels, and glazes. No. 1,366,101; Jan. 18; v. 282; p. 481.
- Rifkin, Jacob, Wilkes-Barre, Pa. Union-garment. No. 1,386,950; Aug. 9; v. 289; p. 268.
- Rifner, Frank D., Dayton, Ohio. Press-die. No. 1,388,374; Aug. 23; v. 289; p. 660.
- Rigal, Waldo A., Chicago, Ill. Auto-tire lock. No. 1,384,487; July 12; v. 288; p. 304.
- Rigas, Frank. (See Chmurski, Anton J., assignor.)
- Rigby, George E., Manchester, England. Motorcycle. No. 1,364,314; Jan. 4; v. 282; p. 52.
- Rigby, George E., Manchester, England. Motorcycle. No. 1,369,356; Feb. 22; v. 283; p. 627.
- Rigby, George E., Manchester, England. Frame of motorcycles. No. 1,395,358; Nov. 1.
- Rigby, Samuel S., New Castle, Pa. Trolley-wheel. No. 1,401,495; Dec. 27.
- Rigg, Gilbert, assignor to Mining and Metallurgical Process Proprietary Limited, Melbourne, Victoria, Australia. Desulfurization of zinc sulfid. No. 1,401,733; Dec. 27.
- Riggin, Fred L. (See Heiby, C. G., Burkam, Lindquist, Riggin, Allen, and Lau.)
- Riggs, Arthur N., Centralia, Wash. Box-nailing machine. No. 1,397,054; Nov. 15.
- Riggs, Fletcher S., Marshall, Tex. Switch. No. 1,389,899; Sept. 6; v. 290; p. 69.
- Riggs, Henry H., Harpoot, Turkey. Typewriting-machine. No. 1,384,407; July 12; v. 288; p. 287.
- Riggs, Leo A., Audubon, Iowa. Collapsible door. No. 1,381,744; June 14; v. 287; p. 322.
- Rigney, Samuel C., Dallas, Tex. Vegetable-grading apparatus. No. 1,382,856; June 28; v. 287; p. 646.
- Rigsby, John P., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Synchronism-indicator. No. 1,389,382; Aug. 30; v. 289; p. 913.
- Rigsby, Virgil, Hemphill, Tex. Magneto-contact. No. 1,376,162; Apr. 26; v. 285; p. 671.
- Rihn, Charles M., deceased, Louisville, Ky., J. M. Rihn, administrator. Continuous-rail crossing. No. 1,364,315; Jan. 4; v. 282; p. 52.
- Rihn, James M., administrator. (See Rihn, Charles M.)
- Rihn, James M., and W. Louisville, Ky. Continuous-rail crossing. No. 1,378,277; May 17; v. 286; p. 472.
- Rihn, William. (See Rihn, James M. and W.)
- Riiber, Claus N., assignor to Norsk Alkali A/S, Trondheim, Norway. Apparatus for the electrolysis of solutions of alkaline chlorids. No. 1,378,829; May 17; v. 286; p. 577.
- Riis, Jens, Castlewood, S. D. Receiving-account check. No. 1,378,422; May 17; v. 286; p. 499.
- Riker, Andrew L., Fairfield, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Vehicle-wheel. No. 1,368,411; Feb. 15; v. 283; p. 403.
- Riker, Malcolm D., Dover, N. J., assignor to McKiernan-Terry Drill Company. Lifting-jack. No. 1,366,332; Jan. 18; v. 282; p. 526.
- Riker, Malcolm D., Dover, N. J., assignor to McKiernan-Terry Drill Company, New York, N. Y. Lifting-jack. No. 1,390,642; Sept. 13; v. 290; p. 311.
- Riker, Malcolm D., Dover, N. J., assignor to McKiernan-Terry Drill Company, New York, N. Y. Pile-pulling rig. No. 1,390,643; Sept. 13; v. 290; p. 311.
- Riker, Samuel M., Chester, N. J. Belt-buckle. No. 1,380,416; June 7; v. 287; p. 17.
- Riley, Adams, 2d. (See Lynn, A. H., Riley, and Rambush.)
- Riley, Elmer, and C. Yunker, Dodge City, Kans. Bolt and nut holder. No. 1,382,320; June 21; v. 287; p. 489.
- Riley, Francis P., assignor of one-half to E. J. Zitzman, New York, N. Y. Stool. No. 1,384,675; July 12; v. 288; p. 344.
- Riley, George W., assignor of one-fifth to J. J. Shipp, Pouke, Ark. Flying-machine. No. 1,398,393; Nov. 29.
- Riley, James T., Brooklyn, assignor to Kimpston, Haupt & Co., New York, N. Y. Mucilage-stand. No. 1,380,594; June 7; v. 287; p. 51.
- Riley, James W., Los Angeles, Calif. Sanitary vending-tray for eatables. No. 1,395,975; Nov. 1.
- Riley, James W., Los Angeles, Calif. Sanitary food-cover. No. 1,395,976; Nov. 1.
- Riley, Jesse P., and B. S. Fockler, Hagerstown, Md. Brake-hanger. No. 1,400,986; Dec. 20.
- Riley, John H., Menominee, Mich. Ice-tractor. No. 1,391,506; Sept. 20; v. 290; p. 547.
- Riley, Lynn G. (See Mardis, P. L., and Riley.)
- Riley, Lynn G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,401,645; Dec. 27.
- Riley, Ralph E., Akron, Ohio, assignor to The Miller Rubber Company. Manufacture of rubber bathing-caps. No. 1,388,762; Aug. 23; v. 289; p. 735.
- Riley, William E. (See Hadley, G. E., and Riley.)
- Rilleau, Francis M., San Francisco, Calif. Flying-machine. No. 1,376,584; May 3; v. 286; p. 39.
- Rimailho, Emile, assignor to Compagnie Des Forges et Acieries De La Marine et D'Homecourt, Paris, France. Endless-track gun-carriage. No. 1,371,054; Mar. 8; v. 284; p. 292.
- Rimailho, Emile, assignor to Compagnie des Forges et Acieries de la Marine et d'Homecourt, Paris, France. Apparatus for throwing the wheels into and out of action of a vehicle having both wheels and endless tracks. No. 1,395,144; Oct. 25.
- Rimple, E. J., and J. W. Morgan, San Jose, Calif. Power-lift for plows. No. 1,398,494; Nov. 29.
- Rimple, Edward J., and J. W. Morgan, San Jose, Calif. Gang-plow. No. 1,401,496; Dec. 27.
- Rincker, Friedrich G. C., Watergraafsmeer, Netherlands. Gasification of solid fuel. No. 1,388,145; Aug. 16; v. 289; p. 556.
- Rinehart, William L., St. Louis, Mo. Power-transmission device. No. 1,398,740; Nov. 29.
- Riner, Lisle L., Greenville, Iowa. Sectional hog-feeder. No. 1,399,716; Dec. 6.
- Ring, Catherine, Detroit, Mich. Combination tail and automobile-license light. No. 1,390,927; Sept. 13; v. 290; p. 367.
- Ring, Lewis J., Wakefield, Nebr. Safety water-craft. No. 1,387,665; Aug. 16; v. 289; p. 461.



*Alphabetical list of patentees—Continued.*

- Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Strip guiding and tensioning device for sewing-machines. No. 1,366,420; Jan. 25; v. 282; p. 587.
- Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Sewing-machine. No. 1,368,293; Feb. 15; v. 283; p. 381.
- Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Strip-severing device for sewing-machines. No. 1,387,012; Aug. 9; v. 289; p. 280.
- Ringe, John C., Stratford, Conn., assignor to The Singer Manufacturing Company. Multiple-needle sewing-machine. No. 1,394,118; Oct. 18.
- Ringelspangh, Charles W. (See Haas, W. and Ringelspangh.)
- Ringen, August H., Sweet Springs, Mo. Tire-chain fastener. No. 1,369,546; Feb. 22; v. 283; p. 663.
- Ringham, Christopher, and W. H. Klingberg, Albert Lea, Minn. Tail-light and license-tag holder. No. 1,397,330; Nov. 15.
- Ringle, James A., Hoxie, Ark. Fender. No. 1,392,223; Sept. 27; v. 290; p. 765.
- Ringer, Charles P., Elmhurst, assignor to Neptune Meter Company, New York, N. Y. Air-lift pump. No. 1,365,273; Jan. 11; v. 282; p. 281.
- Ringo, Andrew O. (See Wilson, F. R. and Ringo.)
- Rinkier, Samuel D. (See Olsen, Alfred N., assignor.)
- Rink, Peter, Cresco, Iowa. Disk-sharpener. No. 1,393,967; Oct. 18.
- Rinne, Kalle, Norwood, Mass. Saw-set. No. 1,397,331; Nov. 15.
- Rinsche, Frank C., assignor to Burroughs Adding Machine Company, Detroit, Mich. Device for displaying cards. No. 1,399,444; Dec. 6.
- Rinschler, Joseph S., Jr., New York, N. Y. Jar. No. 1,366,542; Jan. 25; v. 282; p. 612.
- Rintelman, Henry W., Cottonwood, S. D. Milking-machine. No. 1,380,499; June 7; v. 287; p. 33.
- Rintoul, William, T. J. Nolan, and O. W. Stickland, assignors to Nobel's Explosives Company, Limited, Stevenson, Scotland. Explosive. No. 1,392,851; Oct. 4.
- Riordan, Patrick D., New York, N. Y. Clothes-drier. No. 1,369,267; Feb. 22; v. 283; p. 609.
- Riordan, Robert R. (See Liebert, Jerome G., assignor.)
- Riotte, Eugene A., Douglastown, N. Y. Refrigeration apparatus. No. 1,370,153; Mar. 1; v. 284; p. 73.
- Rioux, Joe E., Minneapolis, Minn. Composition of matter for doughnut mix. No. 1,370,913; Mar. 8; v. 284; p. 265.
- Rippe, Henry A., Salt Lake City, Utah. Worm-gearing. No. 1,381,337; June 14; v. 287; p. 244.
- Rippenhein, Nicholas, New York, N. Y. Display-stand. No. 1,400,987; Dec. 20.
- Ripley, Charles T., Chicago, Ill. Apparatus for manufacturing resilient packing or filling material. No. 1,395,299; Nov. 1.
- Ripley, Edward G., assignor of one-half to H. L. McCullough, Minneapolis, Minn. Pump-lubricator. No. 1,397,548; Nov. 22.
- Rippl, Charles H., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Alternating-current magnet. No. 1,370,914; Mar. 8; v. 284; p. 265.
- Ripsch, Charles W., and J. C. Dawley, Dayton, Ohio. Lifting-jack. No. 1,376,831; May 3; v. 286; p. 86.
- Ripsch, Charles W.; J. C. Dawley, and C. D. Derby, assignors to The Joyce Cridland Company, Dayton, Ohio. Lifting-jack for trucks. No. 1,388,836; Aug. 23; v. 289; p. 749.
- Rip Van Winkle Wall Bed Company, The. (See Sinclair, Neil, assignor.)
- Rischar, Joseph J., Pasadena, Calif. Grease-gun. No. 1,368,840; Feb. 15; v. 283; p. 488.
- Rischar, Joseph J., Pasadena, Calif. Valve-grinding tool. No. 1,377,440; May 10; v. 286; p. 260.
- Riser, George. (See Boles, Wiley E., assignor.)
- Riser, George C., Jr., McGill, Nev. Aeration-cell. No. 1,391,073; Sept. 20; v. 290; p. 460.
- Rishel, Harry A., Philadelphia, Pa. Temperature-indicator for automobiles. No. 1,393,963; Oct. 18.
- Risinger, Frank V., Youngstown, Ohio, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum-feeding apparatus. No. 1,377,277; May 10; v. 286; p. 227.
- Risinger, Frank V., Youngstown, Ohio, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum feeding device for carburetors. No. 1,391,793; Sept. 27; v. 290; p. 677.
- Risinger, Frank V., Youngstown, Ohio, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Liquid-supply system. No. 1,396,061; Nov. 8.
- Risley, Sheridan, assignor to The Cleveland Dental Manufacturing Company, Cleveland, Ohio. Mouth-prop. No. 1,401,190; Dec. 27.
- Rispler, Alfred L., assignor to Monsanto Chemical Works, St. Louis, Mo. Producing phthaleins. No. 1,381,503; June 14; v. 287; p. 275.
- Risser, Arthur I., assignor to U. S. Bottlers Machinery Co., Chicago, Ill. Non-foaming measuring-cup. No. 1,385,495; July 26; v. 288; p. 669.
- Risser, Charles E., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Contouring-machine. No. 1,387,182; Aug. 9; v. 289; p. 314.
- Rissman, Paul, assignor to Fisher Body Corporation, Detroit, Mich. Window-guide. No. 1,378,558; May 17; v. 286; p. 525.
- Ristenpart, Chester H., Thousand Oaks, Calif. Adjustable tray. No. 1,389,986; Sept. 6; v. 290; p. 86.
- Ritchey, Andrew M., San Antonio, Tex. Railway-crossing. No. 1,401,191; Dec. 27.
- Ritchie, Foster, Ealing, England. Power-indicator for spring-motors. No. 1,381,847; June 14; v. 287; p. 341.
- Ritchie, Foster, Ealing, England. Pantograph apparatus. No. 1,393,572; Oct. 11.
- Ritchie, Foster, Ealing, England. Printing-telegraph. No. 1,400,988; Dec. 30.
- Ritchie, Gavin, Jr., Battle Creek, Mich. Support for conveyer-tracks. No. 1,366,944; Feb. 1; v. 283; p. 13.
- Ritchie, Harry C., Liverpool, and M. Kahn, London, England. Reinforced concrete construction of ships, floating docks, pontoons, and the like. No. 1,375,179; Apr. 19; v. 285; p. 452.
- Ritchie, Thomas W., Glencoe, assignor to W. C. Ritchie & Company, Chicago, Ill. Manufacturing containers. No. 1,390,644; Sept. 13; v. 290; p. 311.
- Ritchie, W. C., and Company. (See Evers, A. J., and Sauvage, assignors.)
- Ritchie, W. C., & Company. (See Milroe, Michael J., assignor.)
- Ritchie, W. C., & Company. (See Ritchie, Thomas W., assignor.)
- Rittenbry, Rom S., Bailey, N. C. Adjustable capsule-filling device. No. 1,371,264; Mar. 15; v. 284; p. 395.
- Rittenhouse, Edward. (See Huttlinger, C. A., and Rittenhouse.)
- Rittenhouse, Edward, Philadelphia, Pa. Machine for spinning artificial silk. No. 1,367,893; Feb. 8; v. 283; p. 256.
- Rittenour, Frederick H., Annapolis, Md. Speedometer for automobiles. No. 1,375,761; Apr. 26; v. 285; p. 594.
- Ritter, Charles E., assignor, by mesne assignments, to J. S. McChesney & Co., Chicago, Ill. Hose-clamp. No. 1,373,673; Apr. 5; v. 285; p. 57.
- Ritter Dental Manufacturing Company. (See Fertig, C. W., and May, assignors.)
- Ritter, Edward A., Amherst, assignor to G. B. Bassett, Buffalo, N. Y. Water-meter. No. 1,390,645; Sept. 13; v. 290; p. 311.
- Ritter, Elmer R., Cincinnati, Ohio. Attachable vehicle-spring. No. 1,387,615; Aug. 16; v. 289; p. 452.
- Ritter, John A., Lansdowne, Pa. Headlamp. No. 1,393,573; Oct. 11.
- Ritter, Frank O., Edgemoor, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Reducing acidity of oils. No. 1,379,045; May 24; v. 286; p. 691.
- Ritthamer, Boleslaw. (See Roth, R., and Ritthamer.)
- Rittman, Walter F., Pittsburgh, Pa. Treatment of hydrocarbons. No. 1,365,602; Jan. 11; v. 282; p. 344.
- Rittman, Walter F., and C. B. Dutton, Pittsburgh, Pa. Treatment of hydrocarbons. No. 1,365,603; Jan. 11; v. 282; p. 345.
- Rittman, Walter F., and C. B. Dutton, Pittsburgh, Pa. Treatment of hydrocarbons. No. 1,365,604; Jan. 11; v. 282; p. 345.
- Rittman, Walter F., and C. B. Dutton, Pittsburgh, Pa. Treatment of hydrocarbons. No. 1,365,605; Jan. 11; v. 282; p. 345.
- Ritz, Emil, Jr., assignor to The Hisey-Wolf Machine Company, Cincinnati, Ohio. Quick-throw electric switch. No. 1,380,595; June 7; v. 287; p. 51.
- Ritz, Frank, and J. H. Brook, assignor to The Sun Electro Works, Toronto, Ontario, Canada. Washing-machine. No. 1,393,969; Oct. 18.
- Ritz, George A., Rochester, N. Y. Office furniture. No. 1,397,295; Nov. 15.
- Ritz, Robert R., Milwaukee, Wis. Combined container and liquid-spreader. No. 1,374,236; Apr. 12; v. 285; p. 207.
- Ritz-Woller, Oliver C., Chicago, Ill. Fluid-gage. No. 1,366,214; Jan. 18; v. 282; p. 503.
- Ritzel, Conrad, assignor of one-half to J. J. Tangeman, Dayton, Ohio. Automobile-wheel. No. 1,388,061; Aug. 16; v. 289; p. 539.
- Rivard, Jules X. (See Ayotte, Joseph R., assignor.)
- Rivard, Theodore, Newport, Vt. Rerailer. No. 1,389,383; Aug. 30; v. 289; p. 914.
- River, Adolph, Brooklyn, N. Y. Nail driving and setting machine. No. 1,390,060; Sept. 6; v. 290; p. 101.
- Riveroll, Elfego, assignor to California Electric Steel Company, Los Angeles, Calif. Method of and apparatus for the production of iron and steel. No. 1,370,915; Mar. 8; v. 284; p. 265.
- Riveroll, Elfego, Los Angeles, Calif. Production of iron and steel. No. 1,391,507; Sept. 20; v. 290; p. 547.
- Rivers, Benjamin W., Portland, Me., assignor, by mesne assignments, to National Seal Company, Inc., New York, N. Y. Closure for containing vessels. No. 1,365,274; Jan. 11; v. 282; p. 281.
- Rivers, Charles A., and F. B. Stuart, El Paso, Tex. Cleaning device. No. 1,373,096; Mar. 29; v. 284; p. 848.
- Rivers, Julian H., Jersey City, N. J., assignor to Universal Fibre Company, New York, N. Y. Manufacture of pulp articles. No. 1,367,096; Feb. 1; v. 283; p. 43.
- Rivers, Julian H., assignor to Universal Fibre Company, New York, N. Y. Apparatus for the manufacture of pulp articles. No. 1,367,206; Feb. 1; v. 283; p. 64.



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- Rives, George H., New York, N. Y. Adjustable pedal extension. No. 1,386,951; Aug. 9; v. 289; p. 268.
- Rivet-O Manufacturing Company. (See Harris, Carl C., assignor.)
- Rivett, Edward, Hull, Mass. Endless belt or cord and machine and process for making the same. No. 1,289,699; Sept. 6; v. 290; p. 27.
- Riviere, Fernando. (See Riviere, Francisco and F.)
- Riviere, Francisco and F., Barcelona, Spain. Apparatus for the manufacture of wire netting. No. 1,401,557; Dec. 27.
- Rix, Edward A., Oakland, Calif. Lubricating system for fluid-compressors. No. 1,396,666; Nov. 8.
- Rixson, Oscar C., New Rochelle, N. Y. Suspension for vehicles. No. 1,392,356; Oct. 4.
- Riza, George P. (See Enache, Cociu, assignor.)
- Rizek, John, Cudahy, Wis. Watch-movement. No. 1,396,879; Nov. 15.
- Roach, Caleb, Toronto, Ontario, Canada. Shears. No. 1,373,638; Apr. 5; v. 285; p. 50.
- Roach, Edson A., Bordulac, N. D. Straw-stack former. No. 1,377,365; May 10; v. 286; p. 246.
- Roach, Finis E., Chicago, Ill. Dental tray. No. 1,367,627; Feb. 8; v. 283; p. 205.
- Roach, Finis E., Chicago, Ill. Dental impression flask or tray. No. 1,367,628; Feb. 8; v. 283; p. 205.
- Roach, James P., New York, N. Y. Cotton-picker. No. 1,366,837; Jan. 25; v. 282; p. 670.
- Roach, Jesse E. (See Moore, Wade W., assignor.)
- Roach, Mahlon H. (See Blodgett, W. G., and Roach.)
- Roach, William H., Lindsay, Calif. Convertible can-opener. No. 1,374,032; Apr. 5; v. 285; p. 127.
- Roach, William H., assignor of one-half to L. G. Stallings and J. M. Hadley, Lindsay, Calif. Wrench. No. 1,377,930; May 10; v. 286; p. 354.
- Roach, William L., Corinth, Miss. Shoe-repairing machinery. No. 1,382,013; June 21; v. 287; p. 432.
- Roadhouse, Robert, Des Plaines, assignor of one-half to T. E. McCalig, Chicago, Ill. Enameling ware. No. 1,395,732; Nov. 1.
- Roane, Samuel, Monticello, Ill. Storm-top for automobiles. No. 1,366,280; Jan. 18; v. 282; p. 516.
- Robb, John F., Washington, D. C., assignor to Koehring Machine Company, Milwaukee, Wis. Concrete-distributing machine. No. 1,370,497; Mar. 1; v. 284; p. 141.
- Robb, Lewis J., and R. M. Bickley, assignors to Heyl & Patterson, Inc., Pittsburgh, Pa. Rail-clamp for traveling bridges. No. 1,368,841; Feb. 15; v. 283; p. 488.
- Robb, Lewis J., and R. M. Bickley, assignors to Heyl & Patterson, Incorporated, Pittsburgh, Pa. Ladle-tilt-hook-operating mechanism. No. 1,371,812; Mar. 15; v. 284; p. 502.
- Robb, William E., Oil City, Pa. Power-transmitting mechanism. No. 1,381,745; June 14; v. 287; p. 322.
- Robbins, Charles, Lawrenceville, Ill. Gear-housing for meat-crushers. No. 1,376,585; May 3; v. 286; p. 39.
- Robbins, Charles F. (See Putnam, F. A., and Robbins.)
- Robbins, Charles F., Keene, N. H. Cutter-blade grinder. No. 1,395,145; Oct. 25.
- Robbins, Charles F., South Weymouth, assignor to Markem Machine Company, Boston, Mass. Marking-machine. No. 1,365,062; Jan. 11; v. 282; p. 239.
- Robbins, Charles F., Keene, N. H., assignor to Markem Machine Company, Boston, Mass. Printing-machine. No. 1,390,388; Sept. 13; v. 290; p. 253.
- Robbins, Charles H., Gleasondale, assignor to C. A. Claffin Company, Boston, Mass. Apparatus for dyeing. No. 1,378,618; May 17; v. 286; p. 537.
- Robbins Company, The. (See Nelson, Olof, assignor.)
- Robbins, Edward P., and S. S. Matthes, Mansfield, Ohio. Measuring device. No. 1,383,340; July 5; v. 288; p. 17.
- Robbins, Eugene P. (See Robbins, Thomas H. and E. P.)
- Robbins, Evelyn, Richmond, Calif. Irrigating device. No. 1,394,041; Oct. 18.
- Robbins, Frank, Clifton Hill, Victoria, Australia. Machine for removing the cores and stones from fruit. No. 1,387,183; Aug. 9; v. 289; p. 314.
- Robbins, George W., Arlington, Ind. Toilet kit for automobilists, campers, &c. No. 1,364,809; Jan. 4; v. 282; p. 147.
- Robbins, Hallet R., Washington, D. C., assignor to Metals Recovery Company, New York, N. Y. Concentration of ores. No. 1,397,703; Nov. 22.
- Robbins, Hallet R., Manchester, N. H. Concentration of ores. No. 1,398,394; Nov. 29.
- Robbins, James G., Lancaster, assignor to American Pretzel Company, Philadelphia, Pa. Pretzel-making machine. No. 1,397,233; Nov. 15.
- Robbins, Sam W., Bristol, England. Wringer for mops, floor-cloths, and the like. No. 1,391,408; Sept. 20; v. 290; p. 527.
- Robbins, Thomas H., Ladysmith, Wis., and E. P., Minneapolis, Minn. Protecting device for bank-windows. No. 1,382,803; June 28; v. 287; p. 636.
- Robbins, William A., assignor to The American Brass Company, Waterbury, Conn. Metal-guide for rolling-mills. No. 1,385,338; July 19; v. 288; p. 559.
- Robbins, William V., assignor of one-half to J. W. Brewer, Magna, Utah. Keeper for packing-nuts. No. 1,364,521; Jan. 4; v. 282; p. 92.
- Robbins, William W., Lorain, Ohio. Mining machinery. No. 1,392,598; Oct. 4.
- Roberts, Garfield A., Olathe, Kans. Shutter-operating device. No. 1,381,241; June 14; v. 287; p. 227.
- Robert Bosch Aktiengesellschaft. (See Honold, Gottlob, assignor.)
- Robert, Joseph C., Jr., Agricultural College, Miss. Lamp-wick regulator. No. 1,394,354; Oct. 18.
- Roberts, Albert O., Philadelphia, Pa. Condiment-holder. No. 1,395,597; Nov. 1.
- Roberts, Alvin L., Philadelphia, Pa. Rolled metal reinforcement for concrete poles and piles. No. 1,385,643; July 26; v. 288; p. 699.
- Roberts, Alvin L., Philadelphia, Pa. Universal mill. No. 1,385,644; July 26; v. 288; p. 699.
- Roberts, Alvin L., Philadelphia, Pa. Rolled metal section. No. 1,392,800; Oct. 4.
- Roberts, Arthur, Evanston, assignor, by mesne assignments, to American Coke & Chemical Company, Chicago, Ill. By-product-recovery apparatus. No. 1,366,494; Jan. 25; v. 282; p. 602.
- Roberts, Arthur, Evanston, assignor to American Coke & Chemical Company, Chicago, Ill. Ammonia-still and the like. No. 1,379,939; May 31; v. 286; p. 934.
- Roberts, Arthur, Evanston, Ill., assignor to American Coke & Chemical Company, Chicago, Ill. Heating-wall for coke-ovens and the like. No. 1,399,275; Dec. 6.
- Roberts, Arthur, Evanston, assignor to American Coke & Chemical Company, Chicago, Ill. Heating walls. No. 1,401,497; Dec. 27.
- Roberts, Arthur K., Quincy, Mass. Spark-plug. No. 1,377,854; May 10; v. 286; p. 339.
- Roberts, Ben. (See Hooker, C. J., and Roberts.)
- Roberts Brass Company. (See Zannoth, Robert C., assignor.)
- Roberts, Charles, Portsmouth, Ohio. Railway bumper-block. No. 1,400,989; Dec. 20.
- Roberts, Charles, assignor to The Calico Printers' Association Limited, Manchester, England. Textile and like printing machine. No. 1,378,278; May 17; v. 286; p. 472.
- Roberts, Charles B., Berkeley, Calif. Lock. No. 1,385,889; July 26; v. 288; p. 749.
- Roberts, Charles B., Berkeley, Calif. Vehicle-lift. No. 1,389,532; Aug. 30; v. 289; p. 943.
- Roberts, Charles B., Berkeley, Calif. Hinge. No. 1,401,734; Dec. 27.
- Roberts, Charles C., Ansonia, Conn. Tinning-machine. No. 1,373,023; Mar. 29; v. 284; p. 835.
- Roberts, Charles C., Springdale, Conn. Extension-bolt. No. 1,401,444; Dec. 27.
- Roberts, David, Ann Arbor, Mich. Fencepost-mold. No. 1,388,763; Aug. 23; v. 289; p. 735.
- Roberts, David E., Buffalo, N. Y., assignor to The Beaver Company. Drier for plaster-board. No. 1,399,276; Dec. 6.
- Roberts, Drew D., Perry, Fla. Stump-extractor. No. 1,372,551; Mar. 22; v. 284; p. 700.
- Roberts, Drew D., Perry, Fla. Adjustable hand-tool for filing round surfaces. No. 1,381,886; June 14; v. 287; p. 349.
- Roberts, Edward L. (See Smith, Orland V., assignor.)
- Roberts, Eugene, Salt Lake City, Utah, assignor to The Western States Machine Company. Drive for gyratory centrifugal machines. No. 1,383,567; July 5; v. 288; p. 63.
- Roberts, Eugene, Salt Lake City, Utah, assignor to The Western States Machine Company. Means for mounting and driving centrifugal machines. No. 1,383,568; July 5; v. 288; p. 64.
- Roberts, Eugene, and A. H. Gibson, assignors to Sugar Centrifugal Discharger Co., Salt Lake City, Utah. Discharger for centrifugal baskets. No. 1,377,141; May 3; v. 286; p. 145.
- Roberts, Ezekiel M., St. Louis, Mo. Marking hides, skins, and pelts for the purpose of identification. No. 1,372,907; Mar. 29; v. 284; p. 812.
- Roberts, Fant, Eldorado, Kans. Pump. No. 1,399,402; Dec. 6.
- Roberts, Frank A., Chicago, Ill. Button. No. 1,373,976; Apr. 5; v. 285; p. 117.
- Roberts, Frank C., Wynnewood, Pa. Removing solids suspended in or carried by gases. No. 1,401,735; Dec. 27.
- Roberts, Frank E., Lynn, Mass., assignor to Gotham Process Shank, Inc. Boot and shoe. No. 1,370,363; Mar. 1; v. 284; p. 115.
- Roberts, Frank E., assignor of one-fourth to A. N. Blake, one-fourth to F. C. Stetson, Lynn, and one-fourth to F. W. Howe, Swampscott, Mass. Making boots and shoes. No. 1,383,237; June 28; v. 287; p. 718.
- Roberts, Frank E., assignor to Gotham Process Shank, Inc., Lynn, Mass. Making boots and shoes. No. 1,383,238; June 28; v. 287; p. 718.
- Roberts, Frank W., Caldwell, Idaho, assignor to Dual Auto Visor Shield Company, Inc., Detroit, Mich. Windshield attachment. No. 1,372,552; Mar. 22; v. 284; p. 701.
- Roberts, Fred T., Cleveland, Ohio., assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Inflatable rubber article. No. 1,385,095; July 19; v. 288; p. 511.
- Roberts, Fred T., Cleveland, Ohio, assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Apparatus for making pneumatic inner tubes. No. 1,387,616; Aug. 16; v. 289; p. 452.



## Alphabetical list of patentees—Continued.

- Roberts, Fred T., Cleveland Heights, Ohio, assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Making rubber articles having cores and apparatus therefor. No. 1,387,805; Aug. 16; v. 289; p. 490.
- Roberts, Fred T., Cleveland, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Making hollow rubber articles. No. 1,388,123; Aug. 16; v. 289; p. 552.
- Roberts, Fred T., Cleveland Heights, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Process of and apparatus for making hollow rubber articles. No. 1,388,124; Aug. 16; v. 289; p. 552.
- Roberts, Fred T., Cleveland, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Apparatus for making hollow rubber articles. No. 1,388,125; Aug. 16; v. 289; p. 552.
- Roberts, Frederic, Accrington, assignor of one-half to The Calico Printers' Association, Limited, Manchester, England. Machine for washing, saturating, and similarly treating textile fabrics and yarns in rope form. No. 1,391,276; Sept. 20; v. 290; p. 500.
- Roberts, George E., Schenectady, N. Y. Automatic wrench. No. 1,391,581; Sept. 20; v. 290; p. 562.
- Roberts, George H. (See Watchorn, H. L. J., Roberts, and Raker.)
- Roberts, George S., Bend, Oreg. Steam-boiler and steam-power generation. No. 1,398,395; Nov. 29.
- Roberts, Harold F. (See Carmean, J. H., and Roberts.)
- Roberts, Henry T., New York, N. Y. Manufacturing hub structures. No. 1,383,486; July 5; v. 288; p. 47.
- Roberts, Henry T., New York, N. Y. Saddle. No. 1,391,409; Sept. 20; v. 290; p. 527.
- Roberts, Henry T., New York, N. Y. Wrench. No. 1,394,939; Oct. 25.
- Roberts, Horace L., Brooklyn, N. Y. Tag-stringing machine. No. 1,365,853; Jan. 18; v. 282; p. 433.
- Roberts, Hugh L. (See Evans, R. L., and Roberts.)
- Roberts, James H., Charleston, S. C. Geometrical tool. No. 1,393,970; Oct. 18.
- Roberts, James L., Schenectady, N. Y., assignor to General Electric Company. Bearing and lubricating same. No. 1,378,559; May 17; v. 286; p. 525.
- Roberts, James M., Andrew county, near St. Joseph, Mo. Wire stretcher and splicer combined. No. 1,384,853; July 19; v. 288; p. 461.
- Roberts, John A., Rolfe, Iowa. Adjustable wrench-pliers. No. 1,386,365; Aug. 2; v. 289; p. 79.
- Roberts, John B. (See Givens, George N., assignor.)
- Roberts, John M. (See Carmean, J. H., and Roberts.)
- Roberts, John W., Sarnia, Ontario, Canada. Pipe-coupling for railway rolling-stock. No. 1,389,012; Aug. 30; v. 289; p. 840.
- Roberts, Joseph H. T., Meols, England. Preventing the accumulation of moisture in drops on glass sheets. No. 1,369,708; Feb. 22; v. 283; p. 695.
- Roberts, Joseph T., Shelbyville, Ky. Spring device for automobiles. No. 1,376,040; Apr. 26; v. 285; p. 648.
- Roberts, Julius O., Abilene, Kans. Piston-ring tool. No. 1,384,779; July 19; v. 288; p. 446.
- Roberts, Lyman R., Rutherford, N. J. Typewriter. No. 1,388,203; Aug. 23; v. 289; p. 624.
- Roberts Manufacturing Co. (See Roberts, Ralph R., assignor.)
- Roberts, Matthew W., Lumberton, Miss. Commutator-cleaner. No. 1,382,547; June 21; v. 287; p. 533.
- Roberts Numbering Machine Company. (See Kern, Maximilian H., assignor.)
- Roberts, Oren F., Kansas City, Mo., assignor to F. B. Casmire, Chanute, Kans. Wrench. No. 1,401,817; Dec. 27.
- Roberts, Otto M., Hayden Junction, Ariz. Heel-guard. No. 1,368,056; Feb. 8; v. 283; p. 286.
- Roberts, Park D. (See Roberts, Webster M. and P. D.)
- Roberts, Ralph R., assignor to Roberts Manufacturing Co., Lockport, N. Y. Apparatus for dressing grindstones. No. 1,373,833; Apr. 5; v. 285; p. 88.
- Roberts, Richard H., Henderson, and P. N. Kingswell, Epsom, Auckland, New Zealand. Fastener for lids of cases. No. 1,384,151; July 12; v. 288; p. 235.
- Roberts & Schaefer Company. (See Lawry, Raymond G., assignor.)
- Roberts, Thomas J. E., Stony Stratford, and H. G. Belgrove, Denton, England. Self-propelled plow and other agricultural machine. No. 1,372,454; Mar. 22; v. 284; p. 681.
- Roberts, Thomas J. E., Stony Stratford, and H. G. Belgrove, Denton, England. Self-propelled plow and other agricultural machine. No. 1,372,455; Mar. 22; v. 284; p. 681.
- Roberts, Thomas M., and T. Bovey, Chicago, Ill. Cut-out valve. No. 1,368,970; Feb. 15; v. 283; p. 512.
- Roberts, Walter, et al. (See Speed, John, assignor.)
- Roberts, Walton C., Summit, Ga. Musical instrument. No. 1,357,019; Nov. 15.
- Roberts, Webster M. and P. D., St. Joseph, Mo. Apparatus for making ice cream cones. No. 1,375,609; Apr. 19; v. 285; p. 533.
- Roberts, Webster M. and P. D., St. Joseph, Mo. Automatic cone-making machine. No. 1,392,284; Sept. 27; v. 290; p. 777.
- Roberts, William, Winnipeg, Manitoba, Canada. Baking-oven. No. 1,394,220; Oct. 18.
- Roberts, William E. (See Schrader, L. F., Roberts, and Bredlik.)
- Roberts, William E., Portland, Oreg. Sectional furniture. No. 1,373,528; Apr. 5; v. 285; p. 29.
- Roberts, William E., Andover, Mass., assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Apparatus for making hollow rubber articles. No. 1,387,617; Aug. 16; v. 289; p. 452.
- Roberts, William E., assignor, by mesne assignments, to Foundation Oven Corporation, New York, N. Y. Air-valves for coke-ovens or the like. No. 1,395,060; Oct. 25.
- Roberts, William E., assignor, by mesne assignments, to Foundation Oven Corporation, New York, N. Y. Coke-oven door. No. 1,395,061; Oct. 25.
- Roberts, William T., Indianapolis, Ind. Churn. No. 1,371,117; Mar. 8; v. 284; p. 304.
- Roberts, William T. B., Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,391,978; Sept. 27; v. 290; p. 716.
- Robertshaw, Frederick W., Pittsburgh, Pa. Thermostat. No. 1,387,618; Aug. 16; v. 289; p. 452.
- Robertshaw, George A., Greensburg, Pa. Eccentric adjustment for thermostats. No. 1,376,462; May 3; v. 286; p. 16.
- Robertson, Alexander, Granite City, assignor to American Steel Foundries, Chicago, Ill. Bumping-post. No. 1,383,858; July 5; v. 288; p. 125.
- Robertson Bleachery & Dye Works. (See Robertson, W. H., and Fisher, assignors.)
- Robertson, Charles, and L. Laupot, assignors to Universal Chain Co., Inc., Stroudsburg, Pa. Apparatus for making chain-links. No. 1,393,041; Oct. 11.
- Robertson, Charles J. (See Robertson, John D., assignor.)
- Robertson, Christopher S., Jacksonville, Fla. Side window for automobiles. No. 1,383,027; June 28; v. 287; p. 678.
- Robertson, Donald, and R. M. Simpson, assignors to Imperial Postmarker's Limited, Wellington, New Zealand. Mail-marking machine. No. 1,386,952; Aug. 9; v. 289; p. 268.
- Robertson, Elmer D. B., et al. (See Umphrey, Henry, assignor.)
- Robertson, Frank E. (See Geier, P. A., and Robertson.)
- Robertson, Frank E., assignor to The P. A. Geier Company, Cleveland, Ohio. Suction cleaning apparatus. No. 1,382,548; June 21; v. 287; p. 533.
- Robertson, Frank E., assignor to The P. A. Geier Company, Cleveland, Ohio. Washing-machine attachment. No. 1,391,410; Sept. 20; v. 290; p. 527.
- Robertson, George. (See Atack, F. W., and Robertson.)
- Robertson, George. (See Zapf, M., and Robertson.)
- Robertson, George B., Keene, N. H. Shackle. No. 1,378,619; May 17; v. 286; p. 537.
- Robertson, George B., Keene, N. H. Stake. No. 1,381,746; June 14; v. 287; p. 322.
- Robertson, Gilbert, Vancouver, British Columbia, Canada. Artificial trolling-bait. No. 1,376,230; Apr. 26; v. 288; p. 684.
- Robertson, H. H., Company. (See Young, James H., assignor.)
- Robertson, James G., New York, N. Y. Heel. No. 1,380,838; June 7; v. 287; p. 99.
- Robertson, James G., New York, N. Y. Heel. No. 1,400,183; Dec. 13.
- Robertson, James, Jr., Weehawken, N. J. Repair-patch for rubber footgear. (Reissue.) No. 15,201; Sept. 20; v. 290; p. 577.
- Robertson, John D., assignor to Winchester Repeating Arms Co., New Haven, Conn. Fishing-reel. No. 1,386,366; Aug. 2; v. 289; p. 79.
- Robertson, John D., assignor to C. J. Robertson, Taunton, Mass. Speedometer. No. 1,386,953; Aug. 9; v. 289; p. 269.
- Robertson, Philip O., Allentown, Pa. Shuttle-guard. No. 1,384,807; July 19; v. 288; p. 452.
- Robertson, Robert R., Berkeley, Calif. Etching apparatus. No. 1,393,315; Oct. 11.
- Robertson, Theo. B., Products Co. (See Feder, William, assignor.)
- Robertson, William, Chicago, Ill. Coal-handling device. No. 1,368,456; Feb. 15; v. 283; p. 413.
- Robertson, William, Chicago, Ill. Conveyor. No. 1,378,901; May 24; v. 286; p. 664.
- Robertson, William D., and S. Savage, assignors to S-R Mfg. Co., Seattle, Wash. Tape moistening and delivery apparatus. No. 1,383,999; July 5; v. 288; p. 154.
- Robertson, William H., and F. W. Fisher, New Milford, Conn., assignors to The Robertson Bleachery & Dye Works, Inc. Piling device. No. 1,371,055; Mar. 8; v. 284; p. 292.
- Roberton, Charles G., Barrow-in-Furness, England. Thrust-bearing. No. 1,396,880; Nov. 15.
- Robeson, Joseph E., et al. (See Noah, Leroy H., assignor.)
- Robey, William G., Grafton, W. Va. Incandescent gas-burner. No. 1,388,002; Aug. 16; v. 289; p. 528.
- Robichon, Georges H., Three Rivers, Quebec, Canada. Diary. No. 1,378,560; May 17; v. 286; p. 525.
- Robin, Joseph T., Streatham, London, England. Projection or distribution of light. No. 1,400,990; Dec. 20.



## Alphabetical list of patentees—Continued.

- Robinet, Winfield S. (See Thompson, A. C., and Robinet.)
- Robinson, Albert E., Cincinnati, and H. W. Schatz, Norwood, Ohio. Raising and lowering means in metal-working machinery. No. 1,380,021; May 31; v. 286; p. 949.
- Robinson, Archie D., Westfield, Mass. Waste-paper bag. No. 1,373,450; Apr. 5; v. 285; p. 14.
- Robinson, Arthur C., Los Angeles, Calif. Tire air nozzle and gage. No. 1,371,645; Mar. 15; v. 284; p. 470.
- Robinson, Arthur D., St. Louis, Mo. Desiccating apparatus. No. 1,389,597; Sept. 6; v. 290; p. 7.
- Robinson, Arthur S., Dayton, Ohio. Drag-line excavator. No. 1,377,278; May 10; v. 286; p. 228.
- Robinson-Bindley, William T. (See Weller, A. W., and Robinson-Bindley.)
- Robinson, Boyden C., Long Lake, N. Y. Belt-fastener. No. 1,394,355; Oct. 18.
- Robinson, Charles H., Venice, Ill. Window-shade bracket. No. 1,397,456; Nov. 15.
- Robinson, Charles L., New York, N. Y. Envelop. No. 1,371,813; Mar. 15; v. 284; p. 502.
- Robinson, Charles W., and E. Baseman, Hamilton, Ontario, Canada, assignors, by mesne assignments, to International Harvester Company, Chicago, Ill. Bundle-carrier for harvesters. No. 1,388,306; Aug. 23; v. 289; p. 646.
- Robinson, Clarence I., Staten Island, N. Y., assignor to Standard Oil Company, Bayonne, N. J. Purifying hydrocarbon oils. No. 1,387,868; Aug. 16; v. 289; p. 503.
- Robinson, Clyde E., Miami, Okla. Article-holder. No. 1,367,503; Feb. 1; v. 283; p. 124.
- Robinson, Daniel P., Baltimore, Md., assignor to Continental Can Company, Inc., Syracuse, N. Y. Hermetically attaching can ends to can-bodies. No. 1,389,900; Sept. 6; v. 290; p. 69.
- Robinson, Daniel P., and J. Coyle, Baltimore, Md., and A. L. Kronquest, Chicago, Ill., assignors to Continental Can Company, Inc., Syracuse, N. Y. Slitter-feed. No. 1,395,207; Oct. 25.
- Robinson, David, Jr., Detroit, Mich. Universal joint. No. 1,385,713; July 26; v. 288; p. 714.
- Robinson, Francis J., Aurora, Ontario, Canada. Stretcher and drier for hides and leather. No. 1,392,968; Oct. 11.
- Robinson, George A., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Sheet-feeding machines. No. 1,379,928; May 31; v. 286; p. 933.
- Robinson, George A., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Can-labeling machine. No. 1,385,714; July 26; v. 288; p. 714.
- Robinson, George H., Idabel, Okla., assignor of one-half to H. J. Hall, Boplar Bluff, Mo. Aeroplane. No. 1,366,025; Jan. 18; v. 282; p. 466.
- Robinson, Grosvenor P., Summit, N. J. Lighting-fixture. No. 1,401,364; Dec. 27.
- Robinson, Harold E., and R. M. Van Cleve, Lockport, N. Y. Display device for automobile license-plates. No. 1,393,971; Oct. 18.
- Robinson, Harry. (See Soons, J. E., and Robinson.)
- Robinson, Harry E., and D. L. Ordway, Marlboro, Mass. Article-holder. No. 1,378,979; May 24; v. 286; p. 678.
- Robinson, Harry W., assignor to The Chapman Double Ball Bearing Company of Canada, Limited, Toronto, Ontario, Canada. Roller-bearing. No. 1,383,758; July 5; v. 288; p. 104.
- Robinson, Harvey J. D., Calgary, Alberta, Canada. Automobile wheel and tire-rim. No. 1,366,281; Jan. 18; v. 282; p. 516.
- Robinson, Henry C., Beansville, Ontario, Canada. Shock-absorber for automobiles. No. 1,378,279; May 17; v. 286; p. 472.
- Robinson, Henry O., Brookline, Mass., and C. Steadman, New York, N. Y. Apparatus and method for brick-burning. No. 1,367,756; Feb. 8; v. 283; p. 230.
- Robinson, Hugh A., Keyport, N. J. Aeroplane attachment. No. 1,365,275; Jan. 11; v. 282; p. 281.
- Robinson, James. (See Erskine-Murray, J., and Robinson.)
- Robinson, James M., *et al.* (See Criner, Harry J., assignor.)
- Robinson, Jesse T., Birmingham, Ala. Carbureter. No. 1,387,013; Aug. 9; v. 289; p. 281.
- Robinson, John, Kingswood, near Bristol, assignor of one-half to Hodge, Jacques & Company, Limited, Bristol, England. Skiving-machine. No. 1,388,971; Aug. 30; v. 289; p. 831.
- Robinson, John F., *et al.* (See Nelson, De Witt, assignor.)
- Robinson, John T., Company. (See Robinson, J. T., Gooding, and Russo, assignors.)
- Robinson, John T., G. E. Gooding, and D. J. Russo, assignors to John T. Robinson Company, Boston, Mass. Paper-box machine. No. 1,392,969; Oct. 11.
- Robinson, Joseph V., Santa Monica, Calif. Automatic train-pipe connector. (Reissue.) No. 15,066; Mar. 15; v. 284; p. 539.
- Robinson, Leslie V., New York, N. Y. Dental impression-tray. No. 1,376,163; Apr. 26; v. 285; p. 671.
- Robinson, Mark A., Toronto, Ontario, Canada. Motor-car fender. No. 1,378,423; May 17; v. 286; p. 499.
- Robinson, Ralph H., Jamestown, N. Y. Oil-cup. No. 1,391,643; Sept. 20; v. 290; p. 574.
- Robinson, Robert E., *et al.* (See Brown, Leonard I., assignor.)
- Robinson, Rowley, Camas, Wash. Heating-stove. No. 1,382,011; June 21; v. 287; p. 432.
- Robinson, Walter M., Arlington, assignor to Victory Equipment Corporation, Boston, Mass. Air-cock. No. 1,389,384; Aug. 30; v. 289; p. 914.
- Robinson, William H., Detroit, Mich. Wardrobe. No. 1,388,307; Aug. 23; v. 289; p. 646.
- Robinson, William V., assignor to Independent Stove Company, Owosso, Mich. Automatic damper-regulator. No. 1,379,781; May 31; v. 286; p. 903.
- Robison, Michael F., Utica, N. Y. Machine for unraveling knitted goods and winding the yarn. No. 1,399,657; Dec. 6.
- Robin-Demerath Co. (See Demerath, Joseph M., assignor.)
- Robson, Clarence E., Philadelphia, Pa. Roller-bearing. No. 1,389,385; Aug. 30; v. 289; p. 914.
- Roby, David H. (See Dobbins, Timothy C., assignor.)
- Roby, Edmund T., assignor of one-half to T. C. Buxton, Decatur, Ill. Carburetor. No. 1,394,356; Oct. 18.
- Roces, Avelino F., Manzanillo, Cuba. Hoisting apparatus. No. 1,391,411; Sept. 20; v. 290; p. 527.
- Rockey, Clarence H., Chicago, Ill. Floor-board clamp for automobiles. No. 1,395,359; Nov. 1.
- Rochambeau, Charles E., St. Joseph, Mo. Car-brake-controlling means. No. 1,377,628; May 10; v. 286; p. 294.
- Roche, James. (See Council, William, assignor.)
- Roche, Jean A., Dayton, Ohio. Gun-mount for airplanes. No. 1,385,755; July 26; v. 288; p. 722.
- Roche, John, and R. J. Parker, assignors to Electric Twin Water Purification Corporation, Buffalo, N. Y. Water-treating apparatus. No. 1,371,814; Mar. 15; v. 284; p. 503.
- Rochells, William. (See Erlich, Joe, assignor.)
- Rochester Railway & Light Company. (See Burch, W. S., and Schell, assignors.)
- Rochette, Joseph E. (See Cartier, J., and Delcourt, assignors.)
- Rochlis, Samuel, Philadelphia, Pa. Ash-cart cover. No. 1,379,695; May 31; v. 286; p. 888.
- Rochon, Charles, Fall River, Mass. Window-screen. No. 1,392,706; Oct. 4.
- Rock Hill Buggy Company. (See Deas, Coon A., assignor.)
- Rock Island Plow Company. (See Helder, Henry J., assignor.)
- Rock Island Plow Company. (See Kaupke, Lee H., assignor.)
- Rock, Mike. (See Hawresch, S., Rock, and Dworski.)
- Rockbestos Products Corporation. (See Heany, John A., assignor.)
- Rocke, John, Pontiac, assignor, by mesne assignments, to A. Wochner, trustee, McLean county, Ill. Belt-guide. No. 1,399,578; Dec. 6.
- Rockey, Clarence H., Chicago, Ill. Indirect-light-bowl holder. No. 1,375,180; Apr. 19; v. 285; p. 452.
- Rockford Tool Company. (See Sundstrand, Gustaf D., assignor.)
- Rockland Finishing Co. (See Jacoby, Raymond W., assignor.)
- Rockstroh, Max, Klein-Sedlitz, near Pirna, Germany. Platen-press. No. 1,401,818; Dec. 27.
- Rockwell, Byrd C., Camden, Ark. Skeleton core for veneering. No. 1,394,119; Oct. 18.
- Rockwell, Byrd C., Camden, Ark. Veneered flooring-lumber and manufacturing same. No. 1,394,120; Oct. 18.
- Rockwell, Hugh M., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Equalizer. No. 1,401,558; Dec. 27.
- Rockwell, Robert L., and H. R. Stevens, assignors, by mesne assignments, to R. A. McClure, J. N. Blalock, A. E. Holland, D. O. McClay, and E. G. Howe, trustees, Seattle, Wash. Electrical limit-switch. No. 1,386,897; Aug. 9; v. 289; p. 258.
- Rockwell, W. S., Company. (See Turtle, Morton A., assignor.)
- Rockwood, George I., Worcester, Mass. Dry-pipe valve. No. 1,397,704; Nov. 22.
- Rockwood, George I., and H. G. Carlson; said Carlson assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Apparatus for making nuts. No. 1,378,980; May 24; v. 286; p. 678.
- Rockwood Sprinkler Company of Massachusetts. (See Carlson, Hjalmar G., assignor.)
- Rockwood Sprinkler Company of Massachusetts. (See Rockwood, G. I., and Carlson, assignors.)
- Roda, Rudolph H., New York, N. Y. Jewelry-holder. No. 1,373,097; Mar. 29; v. 284; p. 848.
- Rodak, Abraham. (See Warshawsky, Jacob, assignor.)
- Roddey, John H., Charlotte, N. C. Speed-control system. No. 1,368,755; Feb. 15; v. 283; p. 471.
- Roddy, Frances A., New York, N. Y. Apparatus for illustrating and demonstrating the principles of pure arithmetic. No. 1,372,087; Mar. 22; v. 284; p. 611.
- Roddy, Frances A., New York, N. Y. Educational device. No. 1,385,096; July 19; v. 288; p. 512.
- Rode, George W., Jr., Brooklyn, N. Y. Vehicle-tire. No. 1,374,390; Apr. 12; v. 285; p. 236.
- Rodemeyer, Henry F., assignor to Sterling Manufacturing Company, Sterling, Ill. Soil-pulverizer. No. 1,386,132; Aug. 2; v. 289; p. 34.



*Alphabetical list of patentees—Continued.*

- Roden, John J. T., Brooklyn, N. Y. Lock. No. 1,373,353; Mar. 29; v. 284; p. 900.
- Roderick, Glen M., Chicago, Ill. Artificial bait. No. 1,372,831; Mar. 29; v. 284; p. 796.
- Roderick, Lean Manufacturing Company. (See Warne, Frederick C., assignor.)
- Rodger Ballast Car Company. (See Hart, Harry S., assignor.)
- Rodger Ballast Car Company. (See Hindahl, David, assignor.)
- Rodger Ballast Car Company. (See Hosceit, William J., assignor.)
- Rodger Ballast Car Company. (See Neikirk, John O., assignor.)
- Rodger, James G., Camden, N. J. Germinator. No. 1,380,253; May 31; v. 286; p. 993.
- Rodger, John, Philadelphia, Pa. Thread and yarn friction-guide. No. 1,399,521; Dec. 6.
- Rodger, John M., Chicago, Ill. Power operated churn. No. 1,373,674; Apr. 5; v. 285; p. 57.
- Rodgers, Clold E., Logansport, Ind. Jack-block and car-wheel clamp. No. 1,391,979; Sept. 27; v. 290; p. 716.
- Rodgers, Fay T., Memphis, Tenn. Door-securing device. No. 1,373,354; Mar. 29; v. 284; p. 900.
- Rodgers, Hugh P., Dugger, Ind. Rail-bender. No. 1,365,854; Jan. 18; v. 282; p. 433.
- Rodgers, Jesse R., Union City, Tenn., assignor of one-half to W. C. Joplin, St. Louis, Mo. Shoe-displaying device. No. 1,383,154; June 28; v. 287; p. 702.
- Rodgers, John E., Imperial, Nova Scotia, Canada. Fuel-oil burner. No. 1,392,450; Oct. 4.
- Rodgers, Joseph H., Pittsburgh, Pa. Forming sand from gravel. No. 1,401,445; Dec. 27.
- Rodhe, Olof, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Gas-analyzing apparatus. No. 1,373,264; Mar. 29; v. 284; p. 882.
- Rodhe, Olof, assignor to Aktiebolaget Ingeniörsfirma Fritz Egnell, Stockholm, Sweden. Apparatus for analyzing gas. No. 1,374,391; Apr. 12; v. 285; p. 237.
- Rodhe, Olof, assignor to Svenska Aktiebolaget Mono, Stockholm, Sweden. Gas-analyzing apparatus. No. 1,380,160; May 31; v. 286; p. 976.
- Rodhe, Olof, Stockholm, Sweden, assignor to Svenska Aktiebolaget Mono. Gas-analyzing apparatus. No. 1,385,150; July 19; v. 288; p. 523.
- Rodin, Charles F., assignor of one-half to John Erikson, San Francisco, Calif. Shock-absorber. No. 1,389,987; Sept. 6; v. 290; p. 86.
- Rodman Chemical Company. (See Rodman, Hugh, assignor.)
- Rodman, Hugh, Oakmont, assignor to Rodman Chemical Company, Verona, Pa. Case-hardening compound and manufacturing. No. 1,372,832; Mar. 29; v. 284; p. 796.
- Rodney Hunt Machine Company. (See Harris, Carl C., assignor.)
- Rodow, Abraham, New York, N. Y. Book-support. No. 1,399,700; Sept. 6; v. 290; p. 28.
- Rodriguez, Alphonse C., Baton Rouge, La. Pipe-measuring square for plumbers and steam-fitters. No. 1,400,626; Dec. 20.
- Rodriguez, Mariano M., El Paso, Tex. Vehicle-wheel attachment. No. 1,370,364; Mar. 1; v. 284; p. 115.
- Rodriguez, Mathias B., London, England. X-ray apparatus. No. 1,390,250; Sept. 6; v. 290; p. 138.
- Rodway, John I., Relford, England. Apparatus or means for automatically stopping gramophones and like machines. No. 1,399,881; Dec. 13.
- Roe, Alliot V., Hamble, Southampton, England. Mounting for guns. No. 1,382,241; June 21; v. 287; p. 474.
- Roe, Charles C., Wolfe City, Tex. Weevil-exterminator. No. 1,400,459; Dec. 13.
- Roe, Charles O., Indianapolis, Ind., assignor to Roe Metal Sandal Company, Milwaukee, Wis. Sandal. No. 1,386,028; Aug. 2; v. 289; p. 14.
- Roe, Ernest S., assignor to Markham Air Rifle Company, Plymouth, Mich. Air-gun. No. 1,373,451; Apr. 5; v. 285; p. 14.
- Roe, James P., Pottstown, Pa. Oscillating puddling-furnace. No. 1,375,181; Apr. 19; v. 285; p. 452.
- Roe Metal Sandal Company. (See Roe, Charles O., assignor.)
- Roebing's, John A., Sons Company. (See Green, Richard D., assignor.)
- Roebing, Millard F., Cincinnati, Ohio. Time-actuated electrical switch mechanism. No. 1,398,916; Nov. 29.
- Roeder, Lawrence F., Philadelphia, Pa. Vise-stand. No. 1,381,663; June 14; v. 287; p. 305.
- Roehl, Edward A., Minneapolis, Minn. Parallel-alinement fixture. No. 1,369,472; Feb. 22; v. 283; p. 649.
- Roehl, Emil W., Spokane, Wash. Spice-can holder. No. 1,378,902; May 24; v. 286; p. 664.
- Roehm, Edward R., Detroit, Mich. Cuff-holder. No. 1,379,288; May 24; v. 286; p. 737.
- Roeling, George F. (See Gabriel, S. Roeling and Webert.)
- Roeling, Henry W., New Orleans, La. Scalpel. No. 1,368,842; Feb. 15; v. 283; p. 488.
- Roeling, Henry W., E. H. Williams, and J. G. Bauer, New Orleans, La. Automatic coin separating and counting machine. No. 1,378,720; May 17; v. 286; p. 557.
- Roelker, Carl J., assignor of one-fourth to W. F. Lee, Richmond, Va. Roadbed construction. No. 1,387,184; Aug. 9; v. 289; p. 314.
- Roelker, Hugo B. (See Klein, Mathias J., assignor.)
- Roemer, Henry A., Canton, Ohio. Rolling-mill. No. 1,370,998; Mar. 8; v. 284; p. 281.
- Roemer, Henry A., Canton, Ohio. Friction-gear. No. 1,387,909; Aug. 16; v. 289; p. 510.
- Roemer, Jacob F., Waukegan, Ill. Tension-table. No. 1,374,115; Apr. 5; v. 285; p. 143.
- Roesch, Alfred, assignor to C. J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Recorder. No. 1,380,417; June 7; v. 287; p. 17.
- Roesch, Alfred, assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Temperature-controller. No. 1,388,894; Aug. 30; v. 289; p. 816.
- Roesch, Alfred, assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y. Capillary tube and making the same. No. 1,392,658; Oct. 4.
- Roesel, Frederick V., Wellington, Ohio, assignor of one-half to E. Miller, Perry, Iowa. Core for resilient wheel-tires. No. 1,381,934; June 21; v. 287; p. 417.
- Roesler, Emil A., Juneau, Wis. Adjustable guard for stanchion-supporting frames. No. 1,380,500; June 7; v. 287; p. 33.
- Roesler, Emil A., Juneau, Wis. Cable-guard for carrier pulleys or trolleys. No. 1,397,659; Nov. 22.
- Roesen, Oscar, assignor to R. Hoe and Co., New York, N. Y. Plate cooling and finishing machine. No. 1,389,844; Sept. 6; v. 290; p. 57.
- Roessing, Frank M., Sharpsburg, Pa. Mandrel for making inner tubes. No. 1,396,145; Nov. 8.
- Roessler, Emil G., Goldfield, Nev. Stove-grate. No. 1,397,386; Nov. 15.
- Roessler and Hasslacher Chemical Company, The. (See Goerner, Gustav W., assignor.)
- Roessler & Hasslacher Chemical Company, The. (See Liebknecht, Otto, assignor.)
- Roethlisberger, Robert, Columbus Grove, Ohio. Hog-ring. No. 1,372,247; Mar. 22; v. 284; p. 642.
- Roetter, Henry N., Indianapolis, Ind. Adjustable garment-stand. No. 1,372,456; Mar. 22; v. 284; p. 682.
- Roever, August E., Brooklyn, N. Y. Clothes-washing machine. No. 1,396,465; Nov. 8.
- Roever, August E., Brooklyn, N. Y. Dish-washing machine. No. 1,396,466; Nov. 8.
- Roever, Julius, New York, assignor to M. A. Roever, Richmond Hill, N. Y. Spring-bed. No. 1,376,641; May 3; v. 286; p. 49.
- Roever, Julius, assignor to M. A. Roever, Richmond Hill, N. Y. Couch-bed. No. 1,376,642; May 3; v. 286; p. 50.
- Roever, Mary A. (See Roever, Julius, assignor.)
- Roewade, Oge, Battle Creek, Mich., assignor, by mesne assignments, to Postum Cereal Company, Inc., Wilmington, Del. Manufacture of solid soluble beverage extract. No. 1,366,495; Jan. 25; v. 282; p. 602.
- Roewekamp, Frederick. (See Wood, J. N., and Roewekamp.)
- Roganson, David E., Branford, Conn. Clothesline device. No. 1,387,074; Aug. 9; v. 289; p. 293.
- Rogees, Gus and N. E. Polytes, New York, N. Y. Apparatus for producing stage illusions. No. 1,391,854; Sept. 27; v. 290; p. 690.
- Roger, Eugene L., assignor to American Snap Fastener Company Inc., New York, N. Y. Machine for carding snap-fasteners. No. 1,400,002; Dec. 13.
- Rogers, Albert, San Diego, Calif. Gasolene measuring and testing device. No. 1,378,280; May 17; v. 286; p. 473.
- Rogers, Allen, Brooklyn, N. Y. Oil-cracking. No. 1,378,424; May 17; v. 286; p. 499.
- Rogers, Allen, Brooklyn, assignor to Ocean Bond Co., Inc., New York, N. Y. Treating shark-skins and the like. No. 1,395,773; Nov. 1.
- Rogers, Archibald. (See Brook, John O., assignor.)
- Rogers, Arthur D., Dayton, Ohio, and R. J. Manker, Detroit, Mich. Transfer printing and issuing machine. No. 1,383,760; July 5; v. 288; p. 104.
- Rogers, Arthur R., Jonesport, Me., assignor to American Can Company, New York, N. Y. Fish-cutting machine. No. 1,394,185; Oct. 18.
- Rogers, Charles M., Mayo, S. C. Separator-retainer for spinning-frames. No. 1,370,154; Mar. 1; v. 284; p. 75.
- Rogers, Charles O., William Penn, Pa. Egg testing and sorting machine. No. 1,394,445; Oct. 18.
- Rogers, Charlie M., Mayo, S. C. Roller-pressure device. No. 1,387,910; Aug. 16; v. 289; p. 510.
- Rogers, Clarence T., New York, N. Y., assignor of one-half to E. J. Conill, Habana, Cuba. Power-transmission mechanism. No. 1,369,051; Feb. 22; v. 283; p. 568.
- Rogers, Daniel C., De Witt, Mo. Envelop-moistener. No. 1,372,908; Mar. 29; v. 284; p. 812.
- Rogers, Edward C., St. Louis, Mo. Urinary apparatus. No. 1,379,289; May 24; v. 286; p. 737.
- Rogers, Edwin, Aurora, Ill. Rail-fastening for concrete ties. No. 1,388,972; Aug. 30; v. 289; p. 832.
- Rogers, Edwin M., New York, N. Y. Air-lift apparatus. No. 1,374,952; Apr. 19; v. 285; p. 407.
- Rogers, Edwin W., and C. C. Chapel, Marshfield, Wis. Typographical machine. No. 1,388,764; Aug. 23; v. 289; p. 735.
- Rogers, Elmer J., Quincy, assignor to Standard Piston Ring Co., Boston, Mass. Piston-ring-closing device. No. 1,377,730; May 10; v. 286; p. 314.
- Rogers, Erastus W., Durham, N. C. Attachment for stoves. No. 1,395,523; Nov. 1.



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- Rogers, Erastus W., Durham, N. C. Oven. No. 1,395,524; Nov. 1.
- Rogers, Francis M., and C. P. McNeil, Whiting, Ind., assignors to Standard Oil Company, Whiting, Ind. Treating rosin. No. 1,381,504; June 14; v. 287; p. 275.
- Rogers, Frank, Sheffield, and A. W. Gregory, London, England. Roller perforating-machine and strippers therefor. No. 1,365,855; Jan. 18; v. 282; p. 433.
- Rogers, Frank P., Worcester, Mass. Device for dressing grinding-wheels. No. 1,388,308; Aug. 23; v. 289; p. 646.
- Rogers, Fred L., Brooklyn, N. Y. Transmitter for cables. No. 1,366,838; Jan. 25; v. 282; p. 671.
- Rogers, Frederick H., Arlington, N. J. Rudder-lock. No. 1,382,442; June 21; v. 287; p. 514.
- Rogers, G. L., and R. E. Gray, Snoqualmie Falls, Wash. Saw-controlling mechanism. No. 1,398,495; Nov. 29.
- Rogers, Harry B., and M. G., London, England. Damper for moistening adhesive cements and the like. No. 1,390,547; Sept. 13; v. 290; p. 296.
- Rogers, Henry W., New York, N. Y., assignor to The Rogers Rubber Company, Westminster, Md. Resilient heel-tread. No. 1,364,588; Jan. 4; v. 282; p. 103.
- Rogers, James E., assignor of one-half to G. E. Black, Cleveland, Ohio. Toy. No. 1,385,275; July 10; v. 288; p. 548.
- Rogers, James H., Hyattsville, Md. Radiosignaling system. No. 1,387,736; Aug. 16; v. 289; p. 476.
- Rogers, James H., Hyattsville, Md. Radiosignaling system. No. 1,395,454; Nov. 1.
- Rogers, John F., Dayton, Ohio. Tire-turning tool. No. 1,373,834; Apr. 5; v. 285; p. 89.
- Rogers, John F., Cleveland Heights, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Reversing-valve mechanism. No. 1,379,696; May 31; v. 286; p. 888.
- Rogers, John M., Works. (See Daniels, Frank H., assignor.)
- Rogers, John R., Brooklyn, N. Y. Device for transmitting power. No. 1,370,047; Mar. 1; v. 284; p. 55.
- Rogers, John R., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,382,549; June 21; v. 287; p. 533.
- Rogers, Maurice G. (See Rogers, Harry B. and M. G.)
- Rogers, Robert A. (See Willis, W. S., and Rogers.)
- Rogers, Roy, and M. Groves, Midian, Kans. Stuffing-box. No. 1,400,991; Dec. 20.
- Rogers Rubber Company, The. (See Rogers, Henry W., assignor.)
- Rogers, Samuel L. (See Bried, Julien A., assignor.)
- Rogers, Samuel R., assignor of one-half to C. Tohman Mahn, De Soto, Mo. Spring-insole for shoes. No. 1,399,153; Dec. 6.
- Rogers, Stewart A., Buenos Aires, Argentina. Traction system for cable-railways. No. 1,386,533; Aug. 2; v. 289; p. 111.
- Rogers, Stewart A., Buenos Aires, Argentina. Traction system for cable-railways. No. 1,386,534; Aug. 2; v. 289; p. 111.
- Rogers, Victor B., New York, N. Y. Cuff-link. No. 1,387,557; Aug. 16; v. 289; p. 440.
- Rogers, Virgil, Gibbon, Nebr. Belt-guide. No. 1,381,664; June 14; v. 287; p. 306.
- Rogers, W. H., Company. (See Scherfer, Jacob, assignor.)
- Rogers, William C., Fort Sheridan, Ill. Watch-holder. No. 1,381,018; June 7; v. 287; p. 134.
- Rogers, William F., assignor to Reed and Barton Corporation, Taunton, Mass. Cover for dishes. No. 1,380,308; May 31; v. 286; p. 1003.
- Rogers, William S., New York, N. Y. Dentifrice. No. 1,379,046; May 24; v. 286; p. 691.
- Rogers, Yubie W., St. Louis, Mo. Combination-chair. No. 1,381,338; June 14; v. 287; p. 245.
- Rogne, Elmer J. (See Skott, C., and Rogne.)
- Rogne, Martin J. (See Skott, C., and Rogne.)
- Rogovsky, Wojciech. (See Kozlowsky, T., and Rogovsky.)
- Rogowski, Edmund, assignor of one-half to B. Freud, Chicago, Ill. Demountable rim. No. 1,397,823; Nov. 22.
- Rohan, Joseph P., assignor of one-half to M. B. Cartin, Hartford, Conn. Line-connector. No. 1,383,665; July 5; v. 288; p. 85.
- Rohde, John J., assignor of one-half to J. E. Lehr, Milwaukee, Wis. Parking-light. No. 1,383,569; July 5; v. 288; p. 64.
- Rohdick, John, New York, N. Y. Electric envelop-sealer. No. 1,378,721; May 17; v. 286; p. 557.
- Rohen, Dominick, Evart, Mich. Pump-operating apparatus. No. 1,392,224; Sept. 27; v. 290; p. 765.
- Rohland, Charles A., assignor to Vacuum Glass Machine Company, Uniontown, Pa. Manufacturing vacuum wall-containers. No. 1,388,126; Aug. 16; v. 289; p. 552.
- Rohlfing, John M., assignor to American Car and Foundry Company, St. Louis, Mo. Underframe and truck assembly. No. 1,370,766; Mar. 8; v. 284; p. 238.
- Rohm & Haas. (See Bauer, Walter, assignor.)
- Röhm & Haas. (See Lüft, Karl, assignor.)
- Röhm, Otto, Darmstadt, Germany. Making leather with the assistance of iron salts. No. 1,364,315; Jan. 4; v. 282; p. 53.
- Röhm, Otto, Darmstadt, Germany. Producing leather with the assistance of iron salts. No. 1,364,317; Jan. 4; v. 282; p. 53.
- Röhm, Otto, Darmstadt, Germany. Solid non-hygroscopic iron salt and the preparation thereof. No. 1,383,264; June 28; v. 287; p. 723.
- Röhm, Otto, Darmstadt, Germany. Manufacture of iron-leather. No. 1,397,387; Nov. 15.
- Rohman, Harry D., New York, N. Y. Car-lighting system. No. 1,365,544; Jan. 11; v. 282; p. 333.
- Rohman, Harry D., New York, N. Y. Lighting-system. No. 1,365,545; Jan. 11; v. 282; p. 333.
- Rohman, Harry D., New York, N. Y., assignor, by mesne assignments, to J. Stone & Company, Limited, Deptford, England. Car-lighting system. No. 1,369,128; Feb. 22; v. 283; p. 583.
- Rohmer, Gabriel E., Brooklyn, N. Y. Drill. No. 1,380,682; June 7; v. 287; p. 68.
- Rohmiller, Aldace P., Mapleton, Iowa. Spoon-holder. No. 1,393,574; Oct. 11.
- Rohn, Earl C. (See Strong, E. G., and Rohn.)
- Röhne, Even J., Minneapolis, Minn. Electrical heating-pad. No. 1,368,412; Feb. 15; v. 283; p. 404.
- Rohrer, John M., Orwigsburg, Pa. Dirigible headlight. No. 1,398,802; Nov. 29.
- Rohrich, Ralph A. (See Theberath, Joseph C., assignor.)
- Rohrs, Frederick W., Rosedale, Md. Motor-fuel. No. 1,399,227; Dec. 6.
- Rohs, Eric L., La Salle, Ill. Arbor. No. 1,401,281; Dec. 27.
- Rohwer, Henry, Seattle, Wash. Money-value indicator. No. 1,376,832; May 3; v. 286; p. 86.
- Rohwer, Henry, Seattle, Wash. Money-handling machine. No. 1,390,587; Sept. 13; v. 290; p. 298.
- Roiikjer, Andrew H., Boise, Idaho. Back-lock for cameras. No. 1,389,164; Aug. 30; v. 289; p. 870.
- Roiikjer, Andrew H., Boise, Idaho. Camera. No. 1,393,829; Oct. 18.
- Rojas, Florice L., New York, N. Y. Rheostat. No. 1,366,945; Feb. 1; v. 283; p. 13.
- Rolauff, Walter G. E., Belleville, Ill. Packing-ring for rotary shafts. No. 1,383,028; June 28; v. 287; p. 679.
- Roland, Louis I., Kernville, Calif. Feed-nut. No. 1,383,239; June 28; v. 287; p. 718.
- Rolbein, Frederick L. (See Rolle, Herman, assignor.)
- Rolin, Hyacinthe, Namur, Belgium. Dough-rolling apparatus for making long loaves and like products. No. 1,396,881; Nov. 15.
- Rolker, Edwin, Baltimore, Md. Clutch. No. 1,379,877; May 31; v. 286; p. 922.
- Rolkerr, Retlow, Oakland, Calif. Fluid-compressor. No. 1,376,291; Apr. 26; v. 285; p. 696.
- Roll, John M., assignor of one-half to C. Jacobs and one-fourth to E. E. Jacobs, Correctionville, Iowa. Tire-tread-removing device. No. 1,393,575; Oct. 11.
- Roll, John M., assignor of one-half to C. Jacobs and one-fourth to E. E. Jacobs, Correctionville, Iowa. Tire-tread-removing device. No. 1,393,576; Oct. 11.
- Rolle, Herman, assignor to F. L. Rolbein, Philadelphia, Pa. Combined punch and sealer. No. 1,367,504; Feb. 1; v. 283; p. 124.
- Rolle, Karl, and J. F. Heine, Newark, N. J. Gas-heated soldering-tool. No. 1,383,859; July 5; v. 288; p. 125.
- Roller, Frank W., East Orange, N. J., assignor to Roller-Smith Company. Electric measuring instrument. No. 1,380,419; June 7; v. 287; p. 18.
- Roller-Smith Company. (See Roller, Frank W., assignor.)
- Rollerson, Alexander H., Plainfield, N. J. Ignition attachment for torches or the like. No. 1,391,582; Sept. 20; v. 290; p. 562.
- Rolli, John, West Allis, Wis. Scraping apparatus. No. 1,376,643; May 3; v. 286; p. 50.
- Rollin, Eugene H., Indianapolis, Ind. Fluid-gage for automobiles. No. 1,376,164; Apr. 26; v. 285; p. 671.
- Rollins, Grant W., assignor to The Willys-Overland Company, Toledo, Ohio. Machine for threading nuts upon bolts. No. 1,364,318; Jan. 4; v. 282; p. 53.
- Rollins, John O., Fresno, Calif. Grinding-machine. No. 1,381,593; June 14; v. 287; p. 293.
- Rollins, William T., Boston, assignor of one-half to W. H. Davis, Brookline, Mass. Antiskid attachment for rubber-tired wheels. No. 1,364,319; Jan. 4; v. 282; p. 53.
- Rollins, William T., assignor of one-fourth to W. H. Davis and one-half to E. F. Lally, Boston, Mass. Antiskid attachment for elastic tires. No. 1,397,182; Nov. 15.
- Rollman, Bruce B. (See Synck, H., and Rollman.)
- Rolls Royce Limited. (See Royce, Frederick H., assignor.)
- Roloson, Clayton L., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Engine-bed support. No. 1,382,387; June 21; v. 287; p. 502.
- Rolph, Thomas W., Cleveland, Ohio, assignor, by mesne assignments, to Corning Glass Works, Corning, N. Y. Vehicle-head lamp. No. 1,366,946; Feb. 1; v. 283; p. 13.
- Rolup Screen Company. (See Guggenberger, Leopold, assignor.)
- Roman, Lewis, Akron, Ohio. Reinforcement for ice-cream tubs or the like. No. 1,378,722; May 17; v. 286; p. 558.
- Romanet, Emile, Grenoble, France. Furnace with rotary grate. No. 1,371,056; Mar. 8; v. 284; p. 292.
- Romang, Auguste. (See Roth, A., and Romang.)
- Romaro Machine Tool Company. (See Rosander, Robert A., assignor.) (Reissue.)
- Romati, Cesare, Turin, Italy. Fastening for attaching braces and for other purposes. No. 1,396,344; Nov. 8.



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- Romberger, Floyd T., West Lafayette, Ind. Valve. No. 1,401,923; Dec. 27.
- Rombough, Charles E., Long Beach, Calif. Hatpin. No. 1,370,559; Mar. 8; v. 284; p. 198.
- Rome, Frank, Lombard, Ill. Railway-signal. No. 1,366,134; Jan. 18; v. 282; p. 487.
- Rome Iron Mills. (See Jenkins, Weston, assignor.)
- Römer, Adolf, Stuttgart, Germany, assignor, by mesne assignments, to A. Kuttroff, New York, N. Y. Manufacture of substances precipitating glue. No. 1,375,975; Apr. 26; v. 285; p. 635.
- Römer, Adolf, Stuttgart, Germany, assignor to A. Kuttroff, New York, N. Y. Manufacture of substances precipitating glue. No. 1,375,976; Apr. 26; v. 285; p. 635.
- Römer, Adolf, Stuttgart, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Tanning. No. 1,395,733; Nov. 1.
- Romie, Frederick B., Oakland, Calif. Line-spacing device. No. 1,383,759; July 5; v. 288; p. 104.
- Romney, Richard R., Seattle, Wash. Flexible shaft-coupling. No. 1,363,574; Feb. 15; v. 283; p. 436.
- Romney, Richard R., assignor to Ellis Resilient Wheel Corporation, Seattle, Wash. Vehicle-wheel. No. 1,383,240; June 28; v. 287; p. 719.
- Romo, Frank, Jr., Hilo, Hawaii. Hot-plate lifter. No. 1,389,102; Aug. 30; v. 289; p. 857.
- Ronald, Samuel D., San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa. Angle-bending machine. No. 1,375,934; Apr. 26; v. 285; p. 627.
- Ronconi, Domenico, Chicago, Ill. Self-seating rotary valve. No. 1,382,857; June 28; v. 287; p. 646.
- Rondelli, Tito, Turin, and Q. Sestini, Bergamo, Italy, assignors of one-third to Sestron (Foreign Patents) Limited, London, England. Oxidation and coloration of ferrous surfaces. No. 1,386,076; Aug. 2; v. 289; p. 23.
- Rondout Rubber Company. (See Pratt, William B., assignor.)
- Roney, Alexander B., Chicago, Ill. Aeroplane propulsion by means of quarter-turn quartered-paddle-wheel propeller assemblies. No. 1,365,727; Jan. 18; v. 282; p. 408.
- Roney, John H., trustee. (See Schmidt, Augustus F., assignor.)
- Roney, John H. (See Marsteller, Sylvester A., assignor.)
- Rønn, Jens Aaberg, Kolding, Jutland, Denmark, assignor to Enita R. Pinches, London, England. Saliva ejector for use in dental treatment and the like. No. 1,401,646; Dec. 27.
- Ronnan, Frederick P. (See Lavers, Charles W., assignor.)
- Ronning, Adolph. (See Ronning, Andean G. and A.)
- Ronning, Andean G. and A., Minneapolis, Minn. Tractor-truck. No. 1,393,972; Oct. 18.
- Rood, C. P. (See Johnson, George L. N., assignor.)
- Rood, Harold C., Bridgeport, Conn. Hose-supporter clasp. No. 1,373,098; Mar. 29; v. 284; p. 849.
- Rood, Sigurd, Tacoma, Wash. Wrench. No. 1,390,460; Sept. 13; v. 290; p. 272.
- Rood, William B. (See Johnson, Ernest S., assignor.) (Reissue.)
- Roodhouse, Benj. T., et al. (See Charleson, Donald, assignor.)
- Roof, Benjamin M., Lima, Ohio. Non-skid attachment for motor-vehicle wheels. No. 1,391,694; Sept. 27; v. 290; p. 658.
- Roof, Robert M., assignor to Laurel Motors Corporation, Anderson, Ind. Rear-axle spring-bar connection device. No. 1,381,432; June 14; v. 287; p. 263.
- Roof, Robert M., assignor to Laurel Motors Corporation, Anderson, Ind. Front-spring-bar connection device. No. 1,381,433; June 14; v. 287; p. 263.
- Roofing Patents Company, The. (See Lindley, L. F., and Speer, assignors.)
- Roofing Patents Company, The. (See Speer, Alexander S., assignor.)
- Rook, James A. (See De Long, W. W., and Rook.)
- Rooke, George F. (See Duplessie, Joseph, assignor.)
- Rooke, Thomas. (See Hatcher, E. C., and Rooke.)
- Roon, Leo, Elmhurst, N. Y., assignor to Equitable Trust Company of New York, as administrator of Lowell M. Palmer estate. Manufacture of calcium carbonate. No. 1,372,193; Mar. 22; v. 284; p. 631.
- Rooney, Elwin H., Providence, R. I., assignor to B. Gordon, Jr., Utica, N. Y. Carding-machine. No. 1,380,022; May 31; v. 286; p. 950.
- Rooney, John W., Dunedin, New Zealand. Shell used in warfare. No. 1,368,057; Feb. 8; v. 283; p. 287.
- Rooney, Matthew J., Bloomfield, N. J. Comb-cleaner. No. 1,384,152; July 12; v. 288; p. 235.
- Rooney, Patrick J., New Rochelle, N. Y. Power-transmission appliance for pumps and compressors. No. 1,373,764; Apr. 5; v. 285; p. 74.
- Rooney, Patrick J., New Rochelle, N. Y. Tide-power motor. No. 1,401,559; Dec. 27.
- Roop, Elston A., Dayton, Ohio. Adjustable spacing-collar. No. 1,366,496; Jan. 25; v. 282; p. 602.
- Roos, Charles A. (See Meyer, G. W., and Roos.)
- Roos, Delmar G., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Telephone-cord-take-up device. No. 1,384,153; July 12; v. 288; p. 235.
- Roos, Henry W., Cincinnati, Ohio. Adjustable shore. No. 1,368,353; Feb. 15; v. 283; p. 393.
- Roos, Maurice J. (See Reyes, Benjamin C., assignor.)
- Roos, Oscar C., Brooklyn, N. Y. Electromagnetic-wave-transmitting system. No. 1,369,281; Feb. 22; v. 283; p. 612.
- Roosa, Frank A., Orange township, Blackhawk county, Iowa, assignor of one-half to J. L. Zeidler, St. Joseph, Mo. Machine for forming hollow concrete blocks. No. 1,374,392; Apr. 12; v. 285; p. 237.
- Roosa, Frank A., Orange township, Blackhawk county, Iowa, assignor of one-half to J. T. Zeidler, St. Joseph, Mo. Mold for concrete blocks. No. 1,391,508; Sept. 20; v. 290; p. 547.
- Roosa, Herbert H., Lincoln, Nebr. Shoe-clamping device. No. 1,369,936; Mar. 1; v. 284; p. 35.
- Roosa, Herbert H., Lincoln, Nebr. Clamping device for shoe-heels. No. 1,392,357; Oct. 4.
- Roosa, Samuel, Owosso, Mich. Harvester for peas, beans, or the like. No. 1,371,519; Mar. 15; v. 284; p. 446.
- Root, Arthur, Wilkes-Barre, Pa. Brick-machine. No. 1,377,525; May 10; v. 286; p. 275.
- Root, Carlton T., Orland, Ind. Angle-wrench. No. 1,398,116; Nov. 22.
- Root, Fred N., Kalamazoo, Mich. Track scraper or cleaner. No. 1,379,363; May 24; v. 286; p. 752.
- Root, Howard O., assignor to The Prest-O-Lite Company, Indianapolis, Ind. Metal-extrusion apparatus. No. 1,377,094; May 3; v. 286; p. 136.
- Root, Ralph R., assignor to The Globe Machine & Stamping Company, Cleveland, Ohio. Wheel. No. 1,395,734; Nov. 1.
- Root, Walter F., Philadelphia, assignor of one-half to F. Beissel, Darby, Pa. Game. No. 1,388,666; Aug. 23; v. 289; p. 716.
- Roots, James D., West Kensington, London, England. Flying-machine. No. 1,364,522; Jan. 4; v. 282; p. 93.
- Rope, Max, Kansas City, Mo. Detachable retainer for matches. No. 1,385,474; July 26; v. 288; p. 664.
- Roper, Ernest A., Oakworth, near Keighley, and J. W. Hartley, Haworth, near Keighley, England. Weighing apparatus. No. 1,392,659; Oct. 4.
- Ropiak, John G., Chicago, Ill. Control-glove. No. 1,391,210; Sept. 20; v. 290; p. 486.
- Ropp, John F., Blythe, Calif. Leveler. No. 1,397,784; Nov. 22.
- Ropp, Walter A., Gibson City, Ill. Animal-trap. No. 1,366,282; Jan. 18; v. 282; p. 617.
- Rorabeck, Claude, Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Tractor-link. No. 1,396,285; Nov. 8.
- Rorabeck, Floyd F., Azusa, Calif. Lock. No. 1,374,393; Apr. 12; v. 285; p. 237.
- Roem, Silas O., Sioux City, Iowa. Key-duplicating machine. No. 1,381,747; June 14; v. 287; p. 322.
- Rork, James B., Tacoma, Wash. Chimney-cleaner. No. 1,398,155; Nov. 22.
- Rosa, Augusto. (See Simonetta, G., and Rosa.)
- Ros-Aux Company. (See Upham, William P., assignor.)
- Rosales, Jerman, New York, N. Y. Surveying instrument. No. 1,380,333; May 31; v. 286; p. 1008.
- Rosander, Robert A., Brooklyn, N. Y., assignor to Romaro Machine and Tool Company, Inc. Wrench. (Reissue.) No. 15,135; June 28; v. 287; p. 725.
- Rosanoff, Martin A. (See Lizounoff, Vasili, assignor.)
- Rosanoff Process Company. (See Perkins, Harry F., assignor.)
- Roscoe, Harry L. (See Green, A. R., and Roscoe.)
- Rose, Albert F., Tulsa, Okla. Fishing-tool. No. 1,392,599; Oct. 4.
- Rose, Arthur F. (See Loynes, O. H., and Rose.)
- Rose, Benjamin H., Lakewood, Ohio. Reinforced flexible tubing. No. 1,371,981; Mar. 15; v. 284; p. 534.
- Rose, Charles B., assignor of one-half to E. Ballou, Toledo, Ohio. Windshield. No. 1,369,193; Feb. 22; v. 283; p. 595.
- Rose, Edward E., Swissvale, and C. A. Smith, Edgewood Park, Pa., assignors to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,401,647; Dec. 27.
- Rose, George D., Manchester, England. Wood substitute and making the same. No. 1,370,155; Mar. 1; v. 284; p. 75.
- Rose, George F., Hyndsville, N. Y. Between-the-lens photographic shutter. No. 1,377,366; May 10; v. 286; p. 246.
- Rose, George U., Jr., Washington, D. C. Electrotype material and forming same. No. 1,397,785; Nov. 22.
- Rose, Harry E., New York, N. Y. Aeroplane. No. 1,371,815; Mar. 15; v. 284; p. 503.
- Rose, J. Fraser, Trenton, Nova Scotia, Canada. Pulley. No. 1,385,276; July 19; v. 288; p. 548.
- Rose, Jackson J., Chicago, Ill. Camera-film-developing tank and tester. No. 1,364,320; Jan. 4; v. 282; p. 53.
- Rose, Jackson J., Chicago, Ill. Film-tester. No. 1,364,321; Jan. 4; v. 282; p. 53.
- Rose, John M., Philadelphia, Pa. Grinder or sharpener for knives, &c. No. 1,398,741; Nov. 29.
- Rose, Joseph. (See Engebretsen, Alf, assignor.)
- Rose, Ralph, and N. F. Cimaglia, Mount Vernon, N. Y. Splicing-ear for overhead trolley-wires. No. 1,377,972; May 10; v. 286; p. 362.
- Rose, Ralph G., Catesby, Okla. Nut-lock. No. 1,389,845; Sept. 6; v. 290; p. 57.



*Alphabetical list of patentees—Continued.*

- Rose, Thomas, Philadelphia, Pa. Gear-shift lock. No. 1,394,357; Oct. 18.
- Rose, W. Ernst, *et al.* (See Beach, Marie, assignor.)
- Rose, William, Gainsborough, England. Apparatus for scoring, punching, and cutting paper, cardboard, and the like. No. 1,373,355; Mar. 29; v. 284; p. 901.
- Rose, William, Gainsborough, England. Apparatus feeding for both feeding and counting cigarettes for packing, applicable also to analogous purposes. No. 1,393,642; Oct. 11.
- Rose, William A., Peekskill, N. Y. Oar. No. 1,389,988; Sept. 6; v. 290; p. 86.
- Rose, William D. (See White, John W., assignor.)
- Rose, William H., Jersey City, N. J. Liquid-soap dispenser. No. 1,392,600; Oct. 4.
- Rose, William H., Jersey City, N. J. Soap-dispenser. No. 1,392,601; Oct. 4.
- Rose, William T., Waterloo, Iowa. Power-actuated hair-clipper. No. 1,368,354; Feb. 15; v. 283; p. 393.
- Rose, William T., Waterloo, Iowa. Power-actuated safety-razor. No. 1,374,608; Apr. 12; v. 285; p. 279.
- Roseberry Surprise Mining Co. (See Hynes, Dibreel P., assignor.)
- Roseboom, Alfred B., Chicago, Ill. Toy. No. 1,400,696; Dec. 20.
- Roseboom, Jesse G., Cincinnati, Ohio. Direction-signal. No. 1,385,230; July 19; v. 288; p. 539.
- Rosebrook, Lucius R., Oskaloosa, Iowa. Approach for track-scales. No. 1,378,425; May 17; v. 286; p. 499.
- Rosebush, Waldo E., Spokane, Wash. Magazine for hand-firearms. No. 1,375,322; Apr. 19; v. 285; p. 479.
- Rosebush, Waldo E., Spokane, Wash. Firearm. No. 1,376,165; Apr. 26; v. 285; p. 672.
- Rosebush, Waldo E., Spokane, Wash. Composite automatic firearm. No. 1,377,629; May 10; v. 286; p. 295.
- Rosel, Charles, Newark, Ohio. Lawn-edging machine. No. 1,400,627; Dec. 20.
- Rosemeyer, John H., Elmira, Idaho. Stump-puller. No. 1,383,666; July 5; v. 288; p. 85.
- Rosemeyer, John H., Elmira, Idaho. Cable or rope connector or anchor. No. 1,385,645; July 26; v. 288; p. 700.
- Rosemeyer, John H., Elmira, Idaho. Cable-holding device. No. 1,393,245; Oct. 11.
- Rosen, Fred, Chicago, Ill. Combination utensil. No. 1,381,339; June 14; v. 287; p. 245.
- Rosen, Jessel. (See Parsons, C. A., and Rosen.)
- Rosen, Louis W., and P. Brauner, assignors to A. E. Brion, New York, N. Y. Film-shifting device for cameras. No. 1,386,733; Aug. 9; v. 289; p. 224.
- Rosen, Rosa, Little Rock, Ark. Sewing-machine attachment. No. 1,369,983; Mar. 1; v. 284; p. 43.
- Rosenbauer, Gustave, Jersey City, N. J. Spark-plug tester. No. 1,380,839; June 7; v. 287; p. 99.
- Rosenbaum, Harry, New York, N. Y. Dish-washing apparatus. No. 1,386,734; Aug. 9; v. 289; p. 224.
- Rosenbaum, William E., St. Louis, Mo. Safety-razor. No. 1,381,848; June 14; v. 287; p. 341.
- Rosenblatt, William, and J. J. Simon, Brooklyn, N. Y. Windshield for vehicles. No. 1,397,234; Nov. 15.
- Rosenbluth, Edwin M., Wallingford, Pa. Automobile accessory. No. 1,389,901; Sept. 6; v. 290; p. 69.
- Rosenberg, Albert, Baltimore, Md. Loose-leaf binder. No. 1,371,646; Mar. 15; v. 284; p. 471.
- Rosenberg, Benjamin, Brooklyn, N. Y. Receptacle for display. No. 1,374,953; Apr. 19; v. 285; p. 407.
- Rosenberg, Epheem A., Detroit, Mich. Window-locking device. No. 1,389,072; Aug. 30; v. 289; p. 852.
- Rosenberg, Gerald M. (See Starbard, Vertner, assignor.)
- Rosenberg, Heyman, New York, N. Y. Swivel bench-stand for hand-punches. No. 1,365,344; Jan. 11; v. 282; p. 294.
- Rosenberg, Heyman, New York, N. Y. Tool-handle. No. 1,384,154; July 12; v. 288; p. 235.
- Rosenberg, Morris, Brooklyn, N. Y. Obstruction-alarm. No. 1,376,166; Apr. 26; v. 285; p. 672.
- Rosenberg, Ralph H. (See Carter, George M., assignor.)
- Rosenbrook, August C., Madison, Wis. Accelerator for automobiles. No. 1,385,496; July 26; v. 288; p. 669.
- Rosencrans, Hubert M. (See Sakryd, C. H., and Rosencrans.)
- Rosencranz, Emil C., Evansville, Ind. Adjustable window-curtain bracket. No. 1,392,602; Oct. 4.
- Rosener, Leland S., San Francisco, Calif. Weighing and transferring apparatus. No. 1,370,226; Mar. 1; v. 284; p. 89.
- Rosenfeld, Francis M. (See Shaw, L. E., and Rosenfeld.)
- Rosenfeld, Francis M., New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corp., Newark, N. J. Portable electric lamp. No. 1,379,697; May 31; v. 286; p. 888.
- Rosenfeld, Francis M., New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corporation, Newark, N. J. Lighting device. No. 1,390,389; Sept. 13; v. 290; p. 255.
- Rosenfeld, Harry. (See Rosenfeld, Joseph A. and H.)
- Rosenfeld, Joseph A. and H., Cleveland, Ohio. Cloth-cutting and pattern-marking machine. No. 1,398,396; Nov. 29.
- Rosenfeld, Joseph E., Council Bluffs, Iowa. Ground. No. 1,388,485; Aug. 23; v. 289; p. 682.
- Rosenfeld, Mortimer C., Cleveland, Ohio. Pipe-bending tool. No. 1,393,830; Oct. 18.
- Rosenfield, William W., White Plains, N. Y., assignor to Electric Vacuum Cleaner Company, Inc. Suction-cleaner. No. 1,394,940; Oct. 25.
- Rosengren, Anders A., Malmo, Sweden. Machine for making caps and for applying the same to bottles. No. 1,377,279; May 10; v. 286; p. 228.
- Rosenkranz, Max, assignor to National Tube Company, Pittsburgh, Pa. Trough-dumping mechanism. No. 1,399,882; Dec. 13.
- Rosenkranz, Max, assignor to National Tube Company, Pittsburgh, Pa. Trough-cover-lifting mechanism. No. 1,399,883; Dec. 13.
- Rosenlof, Viktor, Timber Lake, S. D. Strap connection for harness. No. 1,376,781; May 3; v. 286; p. 75.
- Rosenman, Leo, Newark, N. J. Fastener-strip or fly for garments. No. 1,373,452; Apr. 5; v. 285; p. 14.
- Rosenstock, Jonas. (See Cohen, Max., assignor.)
- Rosenstock, Max, Paterson, N. J. Manufacture of fabrics. No. 1,366,705; Jan. 25; v. 282; p. 644.
- Rosenthal, Ambrose H., Brooklyn, N. Y. Surface-treating celluloid and the like. No. 1,372,088; Mar. 22; v. 284; p. 611.
- Rosenthal, Arthur, Grand Rapids, Mich., and M. G. Rosenthal, Cincinnati, Ohio, assignors to The Tag Sewing Machine Company, Grand Rapids, Mich. Sewing-machine. No. 1,374,326; Apr. 12; v. 285; p. 224.
- Rosenthal, Christian, Detroit, Mich. Polish for varnished surfaces. No. 1,383,427; July 5; v. 288; p. 35.
- Rosenthal, Leon W., New York, N. Y., and G. J. Lang, Weehawken, N. J., assignors to A. T. Murray, Allentown, Pa. Renewable fuse. No. 1,378,135; May 17; v. 286; p. 445.
- Rosenthal, Leon W., New York, N. Y., and G. J. Lang, Weehawken, N. J., assignors to A. T. Murray, Allentown, Pa. Renewable fuse. No. 1,378,136; May 17; v. 286; p. 445.
- Rosenthal, Leon W., New York, N. Y., and G. J. Lang, Weehawken, N. J., assignors to A. T. Murray, Allentown, Pa. Renewable fuse. No. 1,378,380; May 17; v. 286; p. 491.
- Rosenthal, Morris G. (See Rosenthal, Arthur and M. G.)
- Rosenthal, Morris G., Cincinnati, Ohio. Sewing-machine. No. 1,387,619; Aug. 16; v. 289; p. 452.
- Rosenthal, Morris G., Cincinnati, Ohio. Label-feeding means for automatic label and patch stitching machines. No. 1,389,598; Sept. 6; v. 290; p. 8.
- Rosenthal, Moses, New York, N. Y. Garment-hanger. No. 1,368,843; Feb. 15; v. 283; p. 488.
- Rosenthal, Rubin, Brooklyn, N. Y. Ring-setting. No. 1,400,460; Dec. 13.
- Rosenthal, Samuel, New York, and S. D. Brightman, Brooklyn, N. Y. Belt-buckle. No. 1,389,459; Aug. 30; v. 289; p. 929.
- Rosenwasser Bros. (See Plaser, Abraham, assignor.)
- Rosenzweig, Siegfried, New York, N. Y. Steam-engine valve. No. 1,381,340; June 14; v. 287; p. 245.
- Rosenzweig, Siegfried, New York, N. Y. Valve-gear for steam engines. No. 1,384,854; July 19; v. 288; p. 461.
- Rosenzweig, Siegfried, New York, N. Y. Valve-gear for steam-engines. No. 1,384,855; July 19; v. 288; p. 462.
- Roser, Jeremiah V., assignor of one-half to A. Brengelman, Nashville, Tenn. Grease-pump. No. 1,383,241; June 28; v. 287; p. 719.
- Rosewater, Nathan, Cleveland, Ohio. Treating coffee-beans and other substances and product resulting therefrom. No. 1,400,992; Dec. 20.
- Rosheim, Elling I., Roland, Iowa. Sprue-former. No. 1,387,558; Aug. 16; v. 289; p. 441.
- Rosick, Joseph, Dawson, N. Mex. Cushion-tire for vehicle-wheels. No. 1,394,358; Oct. 18.
- Rosier, Charles, New York, N. Y. Tie-slip. No. 1,399,579; Dec. 6.
- Rosiger, Fred. (See Guignard, A.; and Rosiger.)
- Rosner, Adolph, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Fuel system for internal-combustion engines. No. 1,372,194; Mar. 22; v. 284; p. 631.
- Rosner, Adolph, assignor to American Bosch Magneto Corporation, Springfield, Mass. Lubricator. No. 1,390,588; Sept. 13; v. 290; p. 298.
- Rosner, Rudolf, Chicago, Ill. Electric gas-generator. No. 1,374,237; Apr. 12; v. 285; p. 207.
- Rosner, Rudolf, Chicago, Ill. Electric gas-generator. No. 1,390,646; Sept. 13; v. 290; p. 311.
- Ross, Alfred D., assignor to A. Bobbe, New York, N. Y. Fastening for laced shoes, boots, or other articles. No. 1,368,971; Feb. 15; v. 283; p. 512.
- Ross, Allen R., Seattle, Wash. Electric cooking-stove. No. 1,375,801; Apr. 26; v. 285; p. 601.
- Ross, Byers G., and O. Brindley, Pittsburgh, Pa. Attachment for moving-picture machines. No. 1,383,428; July 5; v. 288; p. 35.
- Ross, Charles, Blair, Nebr. Adjustable open-top horse-collar. No. 1,397,743; Nov. 22.
- Ross, Cleland C., Newburgh, N. Y. Gang lawn-mower. No. 1,366,947; Feb. 1; v. 283; p. 13.
- Ross, Cleland C., Newburgh, N. Y. Gang lawn-mower. No. 1,366,948; Feb. 1; v. 283; p. 14.
- Ross, Colin J., Longueville, near Sydney, New South Wales, Australia. Molding articles from dry cement concrete. No. 1,368,756; Feb. 15; v. 283; p. 472.



*Alphabetical list of patentees—Continued.*

- Ross, David E., Lafayette, Ind., and O. Garrison, Dayton, Ohio; said Ross assignor to said Garrison. Gear-grinding machine. No. 1,366,284; Jan. 18; v. 282; p. 517.
- Ross, David E., Lafayette, Ind., and O. Garrison, Dayton, Ohio; said Ross assignor to said Garrison. Means for dressing grinding-wheels. No. 1,366,285; Jan. 18; v. 282; p. 517.
- Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Steering-wheel. No. 1,380,840; June 7; v. 287; p. 99.
- Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Steering-gear. No. 1,393,973; Oct. 18.
- Ross, David E., assignor to Ross Gear & Tool Company, La Fayette, Ind. Steering-gear. No. 1,393,974; Oct. 18.
- Ross, David E., assignor to Ross Gear and Tool Company, La Fayette, Ind. Steering gear. No. 1,393,013; Oct. 25.
- Ross, David R., Coburg, Victoria, Australia. Superheater in steam-boilers. No. 1,392,080; Sept. 27; v. 290; p. 736.
- Ross, Donald W., Joliet, Ill. Milk-strainer. No. 1,390,815; Sept. 13; v. 290; p. 344.
- Ross, Earl, assignor to The Philip Carey Manufacturing Company, Wyoming, Ohio. Method and apparatus for ornamenting prepared roofing. No. 1,369,129; Feb. 22; v. 283; p. 583.
- Ross, Edward E., Wilkensburg, Pa. Resilient device. No. 1,378,281; May 17; v. 286; p. 473.
- Ross, Frank A., Spokane, Wash. Hand-crank. No. 1,399,445; Dec. 6.
- Ross Gear & Tool Company. (See Ross, David E., assignor.)
- Ross, George G., South Greensburg, Pa. Record-rack cabinet. No. 1,394,864; Oct. 25.
- Ross, Harry B., assignor of three-fourths to H. A. Clarke, Denver, Colo. Drink-mixing machine. No. 1,399,080; Dec. 6.
- Ross, Hugh, Sheboygan, Wis. Glove. No. 1,385,715; July 26; v. 288; p. 714.
- Ross, James, Chicago, Ill. Boiler-tube-cleaning device. No. 1,388,309; Aug. 23; v. 289; p. 646.
- Ross, John D., Washington, D. C. Antislipping device. No. 1,364,454; Jan. 4; v. 282; p. 79.
- Ross, John D., Flushing, N. Y. Safety-guard for clothes-wringers. No. 1,382,242; June 21; v. 287; p. 474.
- Ross, John O., assignor to B. F. Sturtevant Company, Boston, Mass. Method of and apparatus for recovering heat from driers. No. 1,365,790; Jan. 18; v. 282; p. 421.
- Ross, L. D., Elyria, Ohio. Clamp. No. 1,382,400; June 21; v. 287; p. 505.
- Ross, Mary E., Baker, Oreg. Knitting-needle. No. 1,384,349; July 12; v. 288; p. 276.
- Ross, Matt E., Windfall, Ind. Differential gearing. No. 1,378,723; May 17; v. 286; p. 558.
- Ross, Myron A., Chicago, Ill., assignor to Pressed Prism Plate Glass Company, Morgantown, W. Va. Handling abrasive material. No. 1,396,286; Nov. 8.
- Ross, Oscar A., Brooklyn, N. Y. Variable-speed transmission. No. 1,373,099; Mar. 29; v. 284; p. 849.
- Ross, Oscar A., New York, N. Y. Combined automobile fender and radiator-protector. No. 1,374,394; Apr. 12; v. 285; p. 237.
- Ross, Oscar A., Brooklyn, N. Y. Automatic train-control system or the like. No. 1,389,220; Aug. 30; v. 289; p. 881.
- Ross, Oscar A., New York, N. Y. Self-starter or the like. No. 1,389,701; Sept. 6; v. 290; p. 28.
- Ross, Oscar A., New York, N. Y. Telephone instrument or the like. No. 1,389,902; Sept. 6; v. 290; p. 69.
- Ross, Oscar A., Brooklyn, N. Y. Automatic train-control system or the like. No. 1,399,796; Dec. 13.
- Ross, Robert, Medford Hillside, and L. Score, Winthrop, Mass. Foldable doll-bed. No. 1,370,365; Mar. 1; v. 284; p. 115.
- Ross, Robert C., Wilmette, assignor of one-half to S. Silverman, Chicago, Ill. Arch-support. No. 1,396,528; Nov. 8.
- Ross, Roger I., Troy, Ohio. Gum-tape cutter and moistener. No. 1,392,358; Oct. 4.
- Ross, Russell H. (See Huckle, James B., assignor.)
- Ross, Sylvain V., New York, N. Y., and M. Josephs, West Orange, N. J. Waterproof cigarette-case. No. 1,366,283; Jan. 18; v. 282; p. 517.
- Ross, Tim, Burlingame, Calif. Sanitary feeder and fountain. No. 1,372,371; Mar. 22; v. 284; p. 665.
- Ross, Warren A., Haverhill, Mass. Hair-singeing machine. No. 1,378,137; May 17; v. 286; p. 446.
- Ross, William, Cleveland, Ohio. Hoop-coupling. No. 1,380,927; June 7; v. 287; p. 115.
- Ross, William H., Washington, D. C., assignor of one-half to W. L. Evans, Columbus, Ohio. Preparing ethylene and other unsaturated hydrocarbons. No. 1,392,852; Oct. 4.
- Ross, William L., Porterville, Calif. Frost-preventing device for orchards. No. 1,389,989; Sept. 6; v. 290; p. 86.
- Rosselot, Oliver J., Kokomo, Ind. Burner for heating-stoves. No. 1,389,990; Sept. 6; v. 290; p. 86.
- Rossendale-Reddaway Belting & Hose Co., The. (See Jackson, Isaac S., assignor.)
- Rossetter, Charles E., Los Angeles, Calif. Leather-handle lantern. No. 1,367,505; Feb. 1; v. 283; p. 124.
- Rossi, Carlo, Legnano, Italy. Producing potash containing fertilizers. No. 1,401,648; Dec. 27.
- Rossi, Carlo, Legnano, Italy. Production of potash containing fertilizers. No. 1,401,649; Dec. 27.
- Rossi, Joseph, Philadelphia, Pa. Sound-reproducing machine. No. 1,385,475; July 26; v. 288; p. 665.
- Rossini, Joshua. (See Emiliani, A., and Rossini.)
- Rossiter, George A., Brooklyn, assignor to The Carrie Gyroscopic Corporation, New York, N. Y. Gyroscopic compass. No. 1,367,834; Feb. 8; v. 283; p. 246.
- Rossiter, George A., Brooklyn, assignor to The Carrie Gyroscopic Corporation, New York, N. Y. Gyroscopic compass. No. 1,378,620; May 17; v. 286; p. 537.
- Rossiter, George A., Brooklyn, assignor to The Carrie Gyroscopic Corporation, New York, N. Y. Gyroscopic compass. No. 1,386,022; Aug. 2; v. 289; p. 14.
- Rossiter, George A., Brooklyn, assignor to The Carrie Gyroscopic Corporation, New York, N. Y. Gyroscopic compass. No. 1,386,030; Aug. 2; v. 289; p. 14.
- Rossiter, Jay A., and C. C. Saner, Houston, Tex. Concrete-building mold. No. 1,375,109; Apr. 12; v. 285; p. 438.
- Rossiter, William M., Sunbury, Pa. Thread-cutting shuttle. No. 1,393,643; Oct. 11.
- Roszkopf, Fritz, West Hoboken, N. J., assignor to M. J. Frizio, Kingston, Pa. Measuring and plotting instrument. No. 1,398,243; Nov. 29.
- Rossmann, Allen M., Wilmette, Ill. Internal-combustion engine. No. 1,393,831; Oct. 18.
- Roscoe, Ragnar A., assignor to U. S. Products Corporation, Chicago, Ill. Fan. No. 1,384,155; July 12. v. 288; p. 235.
- Rostocki, John M., Pittsburgh, Pa. Egg-beater. No. 1,381,665; June 14; v. 287; p. 306.
- Rostow, Anna D., Summit, N. J. Nose-shaper and surgical supporter. No. 1,372,089; Mar. 22; v. 284; p. 611.
- Rosvall, Hans W., Seattle, Wash. Garment-gage. No. 1,380,418; June 7; v. 287; p. 18.
- Roszkowski, Adolf, New York, N. Y. Automatic valve. No. 1,364,144; Jan. 4; v. 282; p. 19.
- Roszkowski, Adolph, New York, N. Y. Compressor. No. 1,383,860; July 5; v. 288; p. 125.
- Roszmann, Joseph, Covington, Ky. Safety-lock. No. 1,382,675; June 28; v. 287; p. 612.
- Rotary Brake Company. (See Morgan, Porter S., assignor.)
- Rotary Gas Engine Co. (See Scott, Oliver L., assignor.)
- Rotary King Safety Razor Company. (See King, John L., assignor.)
- Rotary Rod Weeder and Manufacturing Company. (See Van Patten, L. C., and Wolfe, assignors.)
- Rotary Scraper Company. (See Sperling, Oscar, assignor.)
- Rote, Charles V., assignor of one-half to E. W. Brown, Lancaster, Pa. Brake. No. 1,382,551; June 21; v. 287; p. 534.
- Rotermund, William F., Seattle, Wash. Quick-adjusting wrench. No. 1,373,529; Apr. 5; v. 285; p. 30.
- Roth, Albert, Chernez-sur-Montreux, and A. Romang, Fontanivent-sur-Clarens, Switzerland. Resilient gear-wheel. No. 1,385,796; July 26; v. 288; p. 730.
- Roth, August A., Baltimore, Md. Sander for automobiles. No. 1,366,594; Jan. 25; v. 282; p. 622.
- Roth, Edward N., assignor to Roth Manufacturing Company, Chicago, Ill. Hose-coupling gasket. No. 1,393,316; Oct. 11.
- Roth, Elias. (See Seelig, Bernard, assignor.)
- Roth, George F., Des Moines, Iowa. Auxiliary tread for pneumatic tires. No. 1,391,412; Sept. 20; v. 290; p. 528.
- Roth, Gilbert A., Hastings, Nebr. Luggage-carrier. No. 1,399,154; Dec. 6.
- Roth, Julius J., Sr. (See Michaelsen, G., and Roth.)
- Roth Manufacturing Company. (See Roth, Edward N., assignor.)
- Roth R., and B. Ritthamer, Seattle, Wash. Apparatus for molding hams. No. 1,364,411; Jan. 4; v. 282; p. 71.
- Rothauski, Simon, Akron, Ohio. Vehicle safety device. No. 1,382,858; June 28; v. 287; p. 646.
- Rothchild, Joseph, New York, N. Y., assignor to John Simmons Company. Valve. No. 1,367,506; Feb. 1; v. 283; p. 124.
- Rothschild, Louis. (See Jerebek, Charles, assignor.)
- Rothe, Fred E., Chicago, Ill. Check-protector. No. 1,386,535; Aug. 2; v. 289; p. 111.
- Rothen, Charles, Geneva, Switzerland. Watchcase. No. 1,399,322; Dec. 6.
- Rotherberg, Arthur C., St. Louis county, Mo., assignor to Otis Elevator Company, Jersey City, N. J. Movable platform for push-button elevators. No. 1,382,243; June 21; v. 287; p. 474.
- Rother, Walter, assignor to R. F. L. Tool and Die Company, Detroit, Mich. Valve-refacing tool. No. 1,387,666; Aug. 16; v. 289; p. 461.
- Rothfus, Edward W., assignor to Error-No. Inc., Rochester, N. Y. Copy-holder. No. 1,390,723; Sept. 13; v. 290; p. 325.
- Rotman, D. R. (See Plauson, Hermann, assignor.)
- Rothmeyer, Charles, Aulnay-sous-Bois, France. Loader-magazine frame for photographic cameras. No. 1,395,360; Nov. 1.
- Rothrock, William, South Allentown, Pa. Washboard. No. 1,398,445; Nov. 29.
- Rothrock, William J., Wilmington, Del. Tube holder and ejector. No. 1,399,580; Dec. 6.
- Rothschild, Walter L., New Rochelle, N. Y. Card for holding buttons. No. 1,401,736; Dec. 27.
- Rothwell, Bertram S., Cleveland, Ohio. Oil-burner. No. 1,398,650; Nov. 29.



*Alphabetical list of patentees—Continued.*

- Rothwell, Charles F., Columbus, Mont. Basket. No. 1,387,185; Aug. 9; v. 289; p. 314.
- Rotinoff, Alexander G., London, England. Pile-driving apparatus. No. 1,391,344; Sept. 20; v. 290; p. 514.
- Rotman, D. R. (See Plauson, Hermann, assignor.)
- Rotsted, William, Chicago, Ill. Apparatus for treating grain, &c. No. 1,399,797; Dec. 13.
- Rotteleur, Paul C. A., Maurecourt, France. Deep-well pump. No. 1,388,602; Aug. 23; v. 289; p. 704.
- Rotter, Max, assignor to Busch Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine air-compressor. No. 1,387,515; Aug. 16; v. 289; p. 432.
- Rotter, Max, Milwaukee, Wis., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Marine-power installation. No. 1,390,287; Nov. 8.
- Rottman, George, New York, N. Y. Garter. No. 1,364,888; Jan. 11; v. 282; p. 206.
- Rottman, George, New York, N. Y. Buckle. No. 1,394,644; Oct. 25.
- Rottman, George, New York, N. Y. Trousers. No. 1,395,361; Nov. 1.
- Rottmann, Clarence J., assignor to Westinghouse Electric & Manufacturing Company, Wilkinsburg, Pa. Electrode for electrolytic cells and making the same. No. 1,367,097; Feb. 1; v. 283; p. 43.
- Rottmann, Clarence J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Standard cell. No. 1,379,698; May 30; v. 286; p. 889.
- Rötzel, Christian, Düsseldorf, Germany. Rolling iron. No. 1,380,254; May 31; v. 286; p. 993.
- Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Pulley construction. No. 1,378,675; Apr. 5; v. 285; p. 57.
- Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Apparatus for setting gages. No. 1,379,878; May 31; v. 286; p. 922.
- Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Bore-verifying apparatus. No. 1,382,859; June 28; v. 287; p. 646.
- Rouanet, Louis, Ivry Port, France, assignor to Compagnie D'Applications Mecaniques, Paris, France. Detachable wheel. No. 1,388,605; Aug. 23; v. 289; p. 704.
- Rouanet, Louis, Ivry Port, assignor to Compagnie d'Applications Mecaniques, Paris, France. Gaging apparatus for thrust-bearing rings. No. 1,391,509; Sept. 20; v. 290; p. 547.
- Rouch, John A. and T. H. Hastie, Tulsa, Okla. Window-lock. No. 1,373,977; Apr. 5; v. 285; p. 117.
- Roudil, Gaston, St.-Ouen, and M. Durand, Paris, France. Friction-roll transmission and change-gearing. No. 1,382,244; June 21; v. 287; p. 475.
- Rough, James H., *et al.* (See Mayne, John, assignor.)
- Roughsedge, William H., Ottawa, Ontario, Canada. Mold for constructing concrete houses and other buildings. No. 1,394,790; Oct. 25.
- Rouanigère, Jean L. P., Auch, France. Hollow metal crown for artificial teeth. No. 1,393,166; Oct. 11.
- Round, Henry J., London, and W. T. Ditcham, Twickenham, England, assignors to Radio Corporation of America, New York, N. Y. Wireless-telegraph transmitter. No. 1,364,495; Jan. 4; v. 282; p. 87.
- Round, Henry J., Muswell Hill, London, England, assignor to Radio Corporation of America, New York, N. Y. Wireless direction-finder. No. 1,368,657; Feb. 15; v. 283; p. 452.
- Round, Henry J., London, England, assignor to Radio Corporation of America, New York, N. Y. Wireless signaling apparatus. No. 1,395,987; Nov. 1.
- Rounds, Fred, Los Angeles, Calif. Mop-holder. No. 1,375,321; Apr. 19; v. 285; p. 479.
- Rounds, William H., Sioux Falls, S. D. Device for applying antiskid-chains. No. 1,372,195; Mar. 22; v. 284; p. 631.
- Rouse, Lovell M., Portland, Oreg. Bottle-capper. No. 1,389,786; Sept. 6; v. 290; p. 46.
- Rouse, Seymour A., and H. C. Stockel, Chicago, Ill. Armor-reliner for tires. No. 1,385,890; July 26; v. 288; p. 749.
- Rouse, Thomas, Stamford Hill, England. Manufacture of agglomerates of various materials and their utilization. No. 1,381,748; June 14; v. 287; p. 323.
- Roush, Franklin E., Dayton, Ohio. Automobile-lock. No. 1,387,314; Aug. 9; v. 289; p. 340.
- Roush, Walter, Toledo, Ohio. Signal device. No. 1,372,313; Mar. 22; v. 284; p. 655.
- Rousseau, Francois P. A., and L. A. Pitot, Paris, France. Railway-sleeper. No. 1,386,954; Aug. 9; v. 289; p. 269.
- Rousseau, Nectaire, Chicago, Ill. Bib-cock. No. 1,371,575; Mar. 15; v. 284; p. 457.
- Roussey, Amos J., Fort Wayne, Ind. Manufacturing vehicle-tires. No. 1,389,221; Aug. 30; v. 289; p. 881.
- Roussey, Paul, Brooklyn, N. Y. Indicating-signal. No. 1,370,487; Mar. 1; v. 284; p. 139.
- Roussillon, Philippe, Argenteuil, assignor to Societe Anonyme Des Etablissements, A. Olier, Clermont-Ferrand, France. Nut-cracking machine. No. 1,380,023; May 31; v. 286; p. 950.
- Rouso, Jacques. (See Brigham, Edwin T., assignor.)
- Rouso, Jacques. (See Richards, Brayton G., assignor.)
- Routin, Joseph L., Paris, France. Apparatus for directing searchlights by the sound of aerial objectives. No. 1,372,043; Mar. 22; v. 284; p. 603.
- Routledge, William, London, England. Loom shuttle-bobbin. No. 1,385,952; July 26; v. 288; p. 761.
- Routt, Orville L., and G. C. McConnell, assignor to Plastoid Products, Inc., Los Angeles, Calif. Plaster-board. No. 1,382,550; June 21; v. 287; p. 534.
- Rouze, Ardra L., Kansas City, Kans. Polishing-tool. No. 1,397,660; Nov. 22.
- Rovelli, Angelo C., assignor to Pivot Button Company, Inc., Philadelphia, Pa. Pin-on button. No. 1,375,231; Apr. 19; v. 285; p. 463.
- Row, James, and C. F. Smith, Holborn, London, England. Clothes rack or hanger. No. 1,396,692; Nov. 8.
- Row, Victor P. (See Iali, O., and Row.)
- Rowan, Albert S., Sedalia, Mo. Center-plate. No. 1,364,322; Jan. 4; v. 282; p. 54.
- Rowan, Harry B., North Attleboro, assignor, by mesne assignments, to Whiting & Davis Company, Plainville, Mass. Handbag. No. 1,367,207; Feb. 1; v. 283; p. 65.
- Rowe, Alfred H., Winnipeg, Manitoba, Canada. Scrubbing-machine. No. 1,393,453; Oct. 11.
- Rowe, Alvin V., Galesburg, Ill. Barb-wire attachment for gates. No. 1,380,928; June 7; v. 287; p. 116.
- Rowe, Alvin V., Galesburg, Ill. Gate. No. 1,388,375; Aug. 23; v. 289; p. 660.
- Rowe, Andrew R., Portsmouth, Ohio. Apparatus and method for casting metal products. No. 1,399,798; Dec. 13.
- Rowe, Bertrand P., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Disconnecting-switch. No. 1,393,454; Oct. 11.
- Rowe, Charles D. (See Lowenhaupt, Daniel, and Rowe.)
- Rowe, David L., East Parsonfield, Me. Wheel-alignment gage. No. 1,399,228; Dec. 6.
- Rowe, Edgar E., Chicago, Ill., assignor to United Shoe Machinery Corporation, Paterson, N. J. Tacking mechanism. No. 1,399,799; Dec. 13.
- Rowe, Harley A., Brandon, Vt. Sled-brake. No. 1,388,765; Aug. 23; v. 289; p. 735.
- Rowe, James G., *et al.* (See MacDougall, Archibald J., assignor.)
- Rowe, Jesse G., Jr., Davis, Calif. Auger and driver. No. 1,375,066; Apr. 19; v. 285; p. 430.
- Rowe, John B., and A. G. Barratt, Johannesburg, Transvaal, South Africa. Change-speed gearing. No. 1,400,317; Dec. 13.
- Rowe, John J. (See Pepple, John W., assignor.)
- Rowe, John J., assignor of one-third to J. S. G. Reynolds-Tait, and one-third to J. B. Hobday, Durban, Natal, South Africa. Flanged wheel. No. 1,369,839; Mar. 1; v. 284; p. 16.
- Rowe Manufacturing Co. (See Knutson, Alfred W., assignor.)
- Rowe, William A., Eau Claire, Wis. Floor-cleaning machine. No. 1,369,130; Feb. 22; v. 283; p. 583.
- Rowe, William N., Hilling, Minn. Section-carrier for steam-shovels. No. 1,374,527; Apr. 12; v. 285; p. 264.
- Rowe, William N., Hibbing, Minn. Air-lifting device. No. 1,392,451; Oct. 4.
- Rowell, Charles V., Croydon, near Sydney, New South Wales, Australia. Apparatus for processing grain under high pressure and high temperature. No. 1,395,014; Oct. 25.
- Rowell, Charles V., Croydon, near Sydney, New South Wales, Australia. Treating wheat grains and product therefrom. No. 1,395,015; Oct. 25.
- Rowell, Herbert G. (See Breneman, W. P., and Rowell.)
- Rowland, Andrew J., assignor to The Federal Products Company, Cincinnati, Ohio. Coating and impregnating agent and making it. No. 1,393,832; Oct. 18.
- Rowland, Andrew J., assignor to The Federal Products Company, Cincinnati, Ohio. Coating and impregnating agent and making it. No. 1,393,833; Oct. 18.
- Rowland, Andrew J., assignor to The Federal Products Company, Cincinnati, Ohio. Oilproof impregnating agent or coating and process. No. 1,395,016; Oct. 25.
- Rowland, Charles E., Toledo, Ohio. Portable carrying means for electric generator sets. No. 1,389,903; Sept. 6; v. 290; p. 70.
- Rowland, Samuel C., Crawfordsville, Ind. Bumper for motor-vehicles. No. 1,373,024; Mar. 29; v. 284; p. 835.
- Rowlands, Percy O., Liverpool, England. Liquid-fuel internal-combustion engine. No. 1,381,434; June 14; v. 287; p. 263.
- Rowlands, Percy O., Liverpool, England. Apparatus for vaporizing hydrocarbons. (Reissue.) No. 15,153; July 12; v. 288; p. 357.
- Rowlands, Percy O., Liverpool, England. Vaporizer. No. 1,400,377; Dec. 13.
- Rowledge, Arthur J., assignor to D. Napier & Son Limited, London, England. Cylinder of internal-combustion engines. No. 1,375,110; Apr. 19; v. 285; p. 438.
- Rowledge, Arthur J., assignor to D. Napier & Son, Limited, London, England. Valve-gear for internal-combustion engines. No. 1,398,651; Nov. 29.
- Rowles, George H., Baltimore, Md. Advertising novelty. No. 1,384,408; July 12; v. 288; p. 287.
- Rowlett, Caius A., Palmetto, Fla. Water-wheel. No. 1,378,561; May 17; v. 286; p. 525.
- Rowley, Arthur C., assignor to Globe Automatic Sprinkler Company, Philadelphia, Pa. Dry-pipe accelerator. No. 1,378,805; May 17; v. 286; p. 573.



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- Rowley, Frank, London, England. Lining for garments and analogous purposes. No. 1,393,975; Oct. 18.
- Rowley, James F., Chicago, Ill. Coapating socket for artificial legs. No. 1,365,424; Jan. 11; v. 282; p. 310.
- Rowley, James F., Chicago, Ill. Artificial limb. No. 1,368,575; Feb. 15; v. 283; p. 437.
- Rowley, James F., Chicago, Ill. Artificial limb. No. 1,375,860; Apr. 26; v. 285; p. 613.
- Rowley, James F., Chicago, Ill. Knee-joint mechanism for artificial limbs. No. 1,385,953; July 26; v. 288; p. 761.
- Rowley, Joseph P. (See Schoellner, J. W., and Rowley.)
- Rowley, Joseph P., and J. W. Schoellner, Newark, N. J. Jewelry. No. 1,380,133; Aug. 2; v. 289; p. 34.
- Rowley, William S., West New Brighton, N. Y., assignor to H. W. Butterworth & Sons Company. Method and means for straightening weft-threads. No. 1,384,213; July 12; v. 288; p. 247.
- Rowntree, Frank L., assignor to Foster, Merriam and Company, Meriden, Conn. Tubular-leg caster-retainer. No. 1,384,091; July 12; v. 288; p. 222.
- Roxana Petroleum Company of Oklahoma. (See Crosby, P. A., Matthews, and High, assignors.)
- Roy, Alexander, Huntington, assignor of one-half to J. L. Sharkey, New York, N. Y. Combined dissolving crystallizing, and calcining apparatus. No. 1,369,840; Mar. 1; v. 284; p. 16.
- Roy, Alexander, Hill City, S. D. Ore-car. No. 1,392,801; Oct. 4.
- Roy, Alfred A., Lowell, Mass., and P. J. Landry, Pelham, N. H. Multiple-feed circular spring-needle knitting-machine. No. 1,390,164; Sept. 6; v. 290; p. 122.
- Roy, Charles J., Los Angeles, Calif. Trap. No. 1,377,441; May 10; v. 286; p. 260.
- Roy, Edward D., Greenville, S. C. Loom. No. 1,400,318; Dec. 13.
- Roy, Edward H., Louisville, Ky. Refrigerator. No. 1,395,598; Nov. 1.
- Roy, John R., Louisville, Ky. Towel rack and separator. No. 1,372,196; Mar. 22; v. 284; p. 632.
- Roy, Wesley C. (See McGuigan, J. W., and Roy.)
- Royal, Belford G., Camden, N. J., assignor to Victor Talking Machine Company. Making sound-record tablets. No. 1,368,972; Feb. 15; v. 283; p. 512.
- Royal, Osmon, assignor to J. A. Mahony, Boston, Mass. Grease-cup. No. 1,387,737; Aug. 16; v. 289; p. 476.
- Royal Trust Company, The, executor and trustee. (See Kennedy, Robert G.)
- Royal Typewriter Company. (See Hess, Edvard B., assignor.)
- Royal, William G. (See Lockwood, W. F., Scott, and Royal.)
- Royal Worcester Corset Co. (See Lecoutre, Auguste J., assignor.)
- Royce, Frederick H., assignor to Rolls Royce Limited, Derby, England. Joint for articulated connecting-rods and the like. No. 1,369,547; Feb. 22; v. 283; p. 664.
- Royer, Edwin C., Philadelphia, Pa. Shears. No. 1,400,378; Dec. 13.
- Royer, Lloyd D., Highland Park, assignor to Sloan-Striker Company, Detroit, Mich. Flow-indicator. No. 1,382,388; June 21; v. 287; p. 502.
- Royhl, Max. (See Teel, Thomas B., assignor.)
- Royle, Vernon, Paterson, N. J. Tubing-machine. No. 1,368,658; Feb. 15; v. 283; p. 452.
- Royle, Vernon, Paterson, N. J. Core-bridge for tubing-machines. No. 1,371,576; Mar. 15; v. 284; p. 458.
- Royle, Vernon, Paterson, N. J. Dimensioning gage for linotype-slug cutters. No. 1,375,323; Apr. 19; v. 288; p. 479.
- Royle, Vernon, Paterson, N. J. Power-saw. No. 1,387,869; Aug. 16; v. 289; p. 503.
- Royle, Vernon, Paterson, N. J. Saw-gage. No. 1,401,560; Dec. 27.
- Roys, Herman E., assignor, by mesne assignments, to Universal Interests, Inc., New York, N. Y. Circulator-heater. No. 1,388,822; Aug. 23; v. 289; p. 747.
- Royster, David O., St. Louis, Mo. Beverage cooling and dispensing apparatus. No. 1,377,630; May 10; v. 286; p. 295.
- Royster, David O., St. Louis, Mo. Beverage shipping and dispensing receptacle. No. 1,381,341; June 14; v. 287; p. 245.
- Royston, Ernest R. (See Bayles, E. A., and Higham, assignors.)
- Roystone, William H., New York, N. Y. Toilet article. No. 1,388,204; Aug. 23; v. 289; p. 625.
- Roystone, William H., New York, N. Y. Sales-registration card. No. 1,396,288; Nov. 8.
- Rozanski, Walter J., Pittsburgh, Pa. Roundabout. No. 1,398,652; Nov. 29.
- Rozee Perkins, Raymond. (See Aveline, Georges, assignor.)
- Ruben, Charles, Pittsburgh, Pa. Necktie-fastener. No. 1,371,707; Mar. 15; v. 284; p. 483.
- Rubenstein, Nathan, New York, N. Y. - Sadiron. No. 1,385,646; July 26; v. 288; p. 700.
- Ruberoid Co., The. (See Abraham, Herbert, assignor.)
- Rubin, Adolph, assignor to Sieber Products Mfg. Co., St. Louis, Mo. Loose-leaf binder. No. 1,391,079; Sept. 20; v. 290; p. 460.
- Rubin, Barnot, Philadelphia, Pa. Coffee - pot. No. 1,385,891; July 26; v. 288; p. 749.
- Rubin, Jacob, Charleston, W. Va. Time-controlled switch. No. 1,370,488; Mar. 1; v. 284; p. 139.
- Rubin, Jacob, Charleston, W. Va. Time-controlled electric switch. No. 1,371,935; Mar. 15; v. 284; p. 525.
- Rubino, Emilo, assignor of one-half to E. Carbone, Philadelphia, Pa. Combined illuminating and ventilating device. No. 1,371,936; Mar. 15; v. 284; p. 525.
- Rubinstein, Barnett, St. Louis, Mo. Clamp for cloth-machines. No. 1,389,320; Aug. 30; v. 289; p. 901.
- Ruble, Cyrus E. (See Hysell, Elmer, assignor.)
- Ruble, J. Otho. (See Wehrle, J. G., and Ruble.)
- Rubsam, Charles E., Brooklyn, N. Y. Speed-controller. No. 1,383,667; July 5; v. 288; p. 85.
- Rubsam, Charles F., Cleveland, Ohio. Vehicle-wheel. No. 1,395,362; Nov. 1.
- Rubsam, Charles F., Cleveland, Ohio. Vehicle-wheel. No. 1,395,363; Nov. 1.
- Rub-Tex Products, Inc. (See Klug, Louis E., assignor.)
- Ruby, Wilbert C., West Willington, Conn. Non-skid device. No. 1,365,728; Jan. 18; v. 282; p. 408.
- Ruche, Abraham. (See Coopersmith, Rudolph, assignor.)
- Ruck, Ernest A., Centuria, Wis. Closure-operating mechanism. No. 1,364,954; Jan. 11; v. 282; p. 219.
- Ruckstell, Glover E., assignor to Hall Scott Motor Car Company, Incorporated, San Francisco, Calif. Transmission-bearing and universal-joint cap. No. 1,392,452; Oct. 4.
- Rudd, Henry A., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Machine for making card-matches. No. 1,399,081; Dec. 6.
- Ruddick, Jacob L. (See Morris, J. W., and Ruddick.)
- Rude, Gilbert T., Washington, D. C. Star finder and identifier. No. 1,401,446; Dec. 27.
- Rude, James M., Covington, assignor to Can Conservation Company, Louisville, Ky. Receptacle and its recovery. No. 1,381,435; June 14; v. 287; p. 263.
- Rüdenberg, Reinhold, Charlottenburg, near Berlin, assignor to Siemens Schuckertwerke G. m. b. H., Siemensstadt near Berlin, Germany. Conductor and electric machinery provided with it. No. 1,370,156; Mar. 1; v. 284; p. 76.
- Rüdenberg, Reinhold, Charlottenburg, near Berlin, assignor to Siemens Schuckertwerke G. m. b. H., Berlin, Germany. High-speed revolving field-magnet. No. 1,376,729; May 3; v. 286; p. 66.
- Rudge, Alfred H., Newark, N. J. Chat-separator for concentrating-jigs. No. 1,385,277; July 19; v. 288; p. 548.
- Rudge-Whitworth Limited. (See Blair, William, assignor.)
- Rudge-Whitworth Limited. (See Pountney, Frank, assignor.)
- Rudigier, Edward A., Bayonne, N. J., assignor to Standard Oil Company. Distillation of oil. No. 1,386,077; Aug. 2; v. 289; p. 23.
- Rudin, Nathan. (See Snider, J. M. Segal, Chaitt, and Rudin.)
- Rudman, Louis M., et al. (See Sundel, Samuel, assignor.)
- Rudnicki, Antoni, Chicago, Ill. Rocking-chair. No. 1,399,155; Dec. 6.
- Rudolph, Alfred W., St. Louis, Mo. Self-irrigating flower-pot. No. 1,400,628; Dec. 20.
- Rudolph, Emmet H. (See Rutherford, T. N., and Rudolph.)
- Rudolph, Herbert F., Milwaukee, Wis. T-square guide. No. 1,389,904; Sept. 6; v. 290; p. 70.
- Rudolph, James W., Dayton, Ohio. Weigher's rapid-weight stamper. No. 1,382,015; June 21; v. 287; p. 433.
- Rudolph Sattler Company, The. (See Sabot, Francis, assignor.)
- Rudolph, Walter J., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Tube-flaring apparatus. No. 1,372,197; Mar. 22; v. 284; p. 632.
- Rudolph, Walter J., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Quick-acting high-pressure connection. No. 1,393,908; Oct. 18.
- Rudolph, Walter J., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Pump for priming, &c. No. 1,396,529; Nov. 8.
- Rudolf, Edward C., Rice Lake, Wis. Head-block for pressers. No. 1,400,319; Dec. 13.
- Rudolphi, Arthur E., Dowagiac, Mich. Furnace. No. 1,379,723; May 31; v. 286; p. 893.
- Rudqvist, Carl, Munich, Germany. Two-stroke-cycle engine. No. 1,392,359; Oct. 4.
- Rudqvist, Carl A., Stäket, assignor to J. & C. G. Bolinders, Mekaniska Verkstad's Aktiebolag, Stockholm, Sweden. Hydraulic motor. No. 1,380,596; June 7; v. 287; p. 51.
- Rudy, Charles, Los Angeles, Calif. Shock-absorber. No. 1,384,970; July 19; v. 288; p. 485.
- Rudzinski, Tony, Virginia, Minn. Spark-arrester. No. 1,396,882; Nov. 15.
- Rue, Albert S., New Brunswick, N. J. Attachment for harrows and cultivators. No. 1,365,276; Jan. 11; v. 282; p. 281.
- Ruebsamen, Albert, Decatur, Ill. Collecting device. No. 1,380,929; June 7; v. 287; p. 116.
- Ruebsamen, A., and W. L. Dennis, Decatur, Ill. Fare-box. No. 1,388,310; Aug. 23; v. 289; p. 647.
- Ruebsamen, Albert, and W. L. Dennis, assignors to the R. D. R. Manufacturing Co., Decatur, Ill. Fare-collecting box. No. 1,394,941; Oct. 25.
- Ruediger, Ernest H., Bismarck, N. D. Electric thermo-regulator. No. 1,398,281; Nov. 29.



- Rüdy, Hermann, Jestetten, Germany. Motor-plow. No. 1,397,146; Nov. 15.
- Rueger, Charles C., Benicia, Calif. Ore-concentrator. No. 1,387,075; Aug. 9; v. 289; p. 293.
- Ruehl, Edward G., Brentwood, Calif. Toy. No. 1,390,816; Sept. 13; v. 290; p. 344.
- Ruesch, Jacob C. (See Goergen, J. P., and Ruesch.)
- Ruff, Herbert, Philadelphia, Pa., assignor of one-half to L. G. Buckwalter, Merchantville, N. J. Plate-moving mechanism for presses, punches, and shears. No. 1,384,092; July 12; v. 288; p. 222.
- Ruff, Herbert, Philadelphia, Pa., assignor of one-half to L. H. Buckwalter, Merchantville, N. J. Plate-moving mechanism for presses, punches, shears, and the like. No. 1,384,093; July 12; v. 288; p. 222.
- Ruff, William J., Quincy, Ill. Vapor-filter. No. 1,387,870; Aug. 16; v. 289; p. 503.
- Ruffe, Albert V., Canton, Ohio. Adjustable stand. No. 1,384,676; July 12; v. 288; p. 345.
- Rugg, Daniel M., assignor to The Gas Machinery Company, Cleveland, Ohio. Coke and gas oven. No. 1,393,455; Oct. 11.
- Rugg, Walter S. (See Murray, H. J., and Rugg.)
- Ruggles, Horace F., West Englewood, N. J. Tractor-coupling for sugar-carts. No. 1,398,575; Nov. 29.
- Ruggles, William G., New York, N. Y. Orientator. No. 1,393,456; Oct. 11.
- Rugh, Harry O., Chicago, Ill. Novelty post-card. No. 1,396,693; Nov. 8.
- Ruhl, Anthony, Cleveland, Ohio. Arch-support. No. 1,390,817; Sept. 18; v. 290; p. 845.
- Ruhlman, John S., Trenton, N. J. Repair outfit for music-rolls. No. 1,373,978; Apr. 5; v. 285; p. 118.
- Ruhlmann, Theodor, and C. Kottmann, New York, N. Y. Magneto for explosion-motors. No. 1,370,157; Mar. 1; v. 284; p. 76.
- Ruhmann, Grover C. (See Ryan, W. C., and Ruhmann.)
- Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Electric battery and preparing manganese material therefor. No. 1,385,151; July 19; v. 288; p. 524.
- Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Dry-cell material and manufacture. No. 1,391,211; Sept. 20; v. 290; p. 487.
- Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Dry battery and manufacture. No. 1,397,183; Nov. 15.
- Rukstala, John, Detroit, Mich. Automatic circuit-closer. No. 1,372,314; Mar. 22; v. 284; p. 655.
- Ruley, Loyd A., and O. F. Osburn, Helena, Okla. Tool. No. 1,388,062; Aug. 16; v. 289; p. 540.
- Rullo, Vincenzo, Philadelphia, Pa. Bread-cutter. No. 1,369,548; Feb. 22; v. 283; p. 664.
- Rulon, Watson B., Philadelphia, Pa., assignor to H. P. Keen, Bellevue, Del. Lubricating device. No. 1,387,806; Aug. 16; v. 289; p. 490.
- Rumbarger, Bradley W., assignor to Southern Carbon Company, Fairbanks, La. Producing carbon-black. No. 1,401,737; Dec. 27.
- Rumbarger, Bradley W., assignor to Southern Carbon Company, Fairbanks, La. Producing carbon-black. No. 1,401,738; Dec. 27.
- Rumens, George J., Baltimore, Md. Cooling apparatus for motor-vehicles. No. 1,390,724; Sept. 13; v. 290; p. 325.
- Rumper, Morris. (See Freeze, John A., assignor.)
- Rumreich, Adalbert A., Pisek, N. D. Lignite-grate. No. 1,381,887; June 14; v. 287; p. 349.
- Runbäck, Karl G. M., Stockholm, Sweden. Machine for bending metal bars and the like. No. 1,385,278; July 19; v. 288; p. 548.
- Runk, John J., Republican City, Nebr. Unloading and elevating apparatus. No. 1,388,063; Aug. 16; v. 289; p. 540.
- Runde, Richard W., Detroit, Mich. Surface milling-cutter. No. 1,376,972; May 3; v. 286; p. 113.
- Rundell, Raymond R., Elmira, assignor of one-half to V. A. Hollenbeck, Hammondsport, N. Y. Shade-holder. No. 1,370,671; Mar. 8; v. 284; p. 219.
- Rundell, Raymond R., assignor of one-fourth to G. C. Haesloop, Elmira, N. Y. Means for sharpening pencil-pointers. No. 1,391,080; Sept. 20; v. 290; p. 460.
- Rundie, Anna, *et al.* (See Snyder, William A., assignor.)
- Rundie, W. Everitt, *et al.* (See Horn, Charles A., assignor.)
- Rundie, W. Everitt, *et al.* (See Horn, Charles A., assignor.)
- Rundie, William J., Meadville, Mont. Dump-car latch. No. 1,383,861; July 5; v. 288; p. 125.
- Runge, Gustave, Cleveland, Ohio. Printer's inking-roller. No. 1,386,427; Aug. 2; v. 289; p. 91.
- Runge, Robert F., and H. W. Jackson, Philadelphia, Pa., assignors to The Hess-Bright Manufacturing Company, Chuck. No. 1,390,961; Sept. 13; v. 290; p. 374.
- Runge, Robert F., Philadelphia, Pa., assignor to The Hess-Bright Manufacturing Company, Chuck. No. 1,401,192; Dec. 27.
- Runne, Henry G., assignor of one-half to C. L. Townsend, Rochester, N. Y. Folding clothesrack. No. 1,399,156; Dec. 6.
- Runstetter, Norval, Seattle, Wash. Non-skid safety device. No. 1,391,413; Sept. 20; v. 290; p. 528.
- Runyan, Benjamin F., assignor of fifty-one per cent. to J. P. Markham, Jr., Houston, Tex. Pipe-coupling. No. 1,394,791; Oct. 25.
- Ruoff, Christian, and J. Nitschman, Newark, N. J. Metallic yarn. No. 1,376,730; May 3; v. 286; p. 66.
- Rupe, Hans, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Quaternary base of the camphor series and making same. No. 1,399,082; Dec. 6.
- Rupert, Donald W. (See Rupert, Edward G., assignor.)
- Rupert, Edward G., assignor of one-half to D. W. Rupert, Trenton, N. J. Tire-core binder. No. 1,369,549; Feb. 22; v. 283; p. 664.
- Rupert, Milton, Pittsburgh, Pa., assignor to R. D. Nuttall Company. Trolley-wheel. No. 1,365,277; Jan. 11; v. 282; p. 281.
- Rüping, Max, Berlin, assignor to Hülsberg & Cie. M. B. H., Charlottenburg, Germany. Apparatus for making holes in material to receive preservative fluid. No. 1,370,608; Mar. 8; v. 284; p. 207.
- Rupp, Charles, assignor to J. S. Thorn Company, Philadelphia, Pa. Multiple-sash-operating mechanism. No. 1,380,809; May 31; v. 286; p. 1003.
- Rupp, John D., Westbrook, Minn. Folding scaffold. No. 1,377,095; May 3; v. 286; p. 136.
- Rupp, Theodore, Rochester, N. Y. Can-server. No. 1,364,889; Jan. 11; v. 282; p. 206.
- Ruppel, Frederick C., assignor to Hayes-Ruppel Manufacturing Company, Grand Rapids, Mich. Celluloid-coated cement body. No. 1,379,837; May 31; v. 286; p. 915.
- Ruppel, Frederick C., assignor to Hayes-Ruppel Manufacturing Company, Grand Rapids, Mich. Mold for hollow bodies. No. 1,388,376; Aug. 23; v. 289; p. 660.
- Ruppel, Henry, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Blue-flame oil-burner. No. 1,396,594; Nov. 8.
- Ruppert, Radid, Westminster, Md. Cutting implement. No. 1,374,768; Apr. 12; v. 285; p. 309.
- Ruprecht, Edward L., West Monroe, N. Y. Collapsible crate. No. 1,384,922; July 19; v. 288; p. 475.
- Ruprecht, Frank D., Midway, Fla. Screening apparatus. No. 1,397,906; Nov. 22.
- Ruschmeyer, William J. H., Toledo, Ohio. Combination-lock. No. 1,394,792; Oct. 25.
- Rush, Albert, assignor to The Vance Company, Columbus, Ohio. Means for operating elevator-doors. No. 1,372,090; Mar. 22; v. 284; p. 617.
- Rush, Albert, assignor, by mesne assignments, to The Kinnear Manufacturing Company, Columbus, Ohio. Door and the like. No. 1,382,933; June 28; v. 287; p. 660.
- Rush, Allan C., Los Angeles, Calif. Breakwater and pier and making the same. No. 1,375,232; Apr. 19; v. 285; p. 462.
- Rush, Estol S., Los Angeles, Calif. Timer. (Reissue.) No. 15,107; May 17; v. 286; p. 578.
- Rush, W. S., & Co. (See Muhleisen, H. W., and Lund, assignors.)
- Rush, William A. (See Rice, F. E., and Rush.)
- Rushmore, Davis B., Schenectady, N. Y., assignor to General Electric Company. Protection of systems of distribution. No. 1,386,898; Aug. 9; v. 289; p. 258.
- Rushmore, Samuel W., Plainfield, N. J. Cooling system. No. 1,378,724; May 17; v. 286; p. 558.
- Rushmore, Samuel W., Plainfield, N. J. Starter for engines. No. 1,384,971; July 19; v. 288; p. 485.
- Rushmore, Samuel W., Plainfield, N. J. Starter. No. 1,387,559; Aug. 16; v. 289; p. 441.
- Rushton, Edwin E., Los Angeles, Calif. Hydrocarbon and gas burner. No. 1,391,277; Sept. 20; v. 290; p. 500.
- Rushton, James W., McCordsville, Ind. Hog-coop. No. 1,367,835; Feb. 8; v. 283; p. 246.
- Ruskoski, John B., New Iberia, La. Blow-off cock. No. 1,372,248; Mar. 22; v. 284; p. 642.
- Ruskoski, John B., New Iberia, La. Attachment for locomotives. No. 1,372,249; Mar. 22; v. 284; p. 643.
- Russ, August, Belleville, N. J. Automatic force-feed lubricator. No. 1,399,522; Dec. 6.
- Russakov, David, Chicago, Ill. Hasp and staple device. No. 1,369,937; Mar. 1; v. 284; p. 35.
- Russell, Albert. (See Chambliss, James, assignor.)
- Russell, Anna E., Syracuse, N. Y. Vegetable-slicer. No. 1,379,724; May 31; v. 286; p. 893.
- Russell, Calvin. (See Rahr, C. E., and Russell.)
- Russell, Charles C., Chicago, Ill. Swell for automatic organs. No. 1,400,239; Dec. 13.
- Russell, Charles C., Chicago, Ill. Automatic cut-out valve for self-playing organs. No. 1,400,240; Dec. 13.
- Russell, Charles D., *et al.* (See Heinle, Albert W., assignor.)
- Russell, Corneallus W., Burlington, Iowa. Sewage-disposal system. No. 1,379,047; May 24; v. 286; p. 691.
- Russell, Edward A., and E. A. Schreiber, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Coupling for railway train-pipes. No. 1,382,245; June 21; v. 287; p. 475.
- Russell, Floyd W., Akron, Ohio. Making pneumatic-tire shoes. No. 1,393,644; Oct. 11.
- Russell, Foster, Spokane, Wash. Washing-machine draw-off. No. 1,399,800; Dec. 13.
- Russell, Frank H., Elko, Nev. Artificial tooth. No. 1,376,644; May 3; v. 286; p. 50.



## Alphabetical list of patentees—Continued.

- Russell, Frank H., Elko, Nev. Artificial tooth. No. 1,376,645; May 3; v. 286; p. 50.
- Russell, Fred E. (See Faltermayer, Harry, assignor.)
- Russell, Fred E., Langhorne, Pa. Stove. No. 1,371,057; Mar. 8; v. 284; p. 293.
- Russell, Frederic W., Redditch, England. Power-transmission mechanism. No. 1,364,584; Jan. 4; v. 282; p. 103.
- Russell, Frederic W., Redditch, England. Screwdriver. No. 1,383,429; July 5; v. 288; p. 35.
- Russell, Frederick C. (See Russell, John M. and F. C.)
- Russell, George E. (See Cary, F. S., and Russell.)
- Russell, George H., Florence, Ala. Hot-water furnace. No. 1,364,595; Jan. 4; v. 282; p. 104.
- Russell, Gideon, North Vancouver, British Columbia, Canada. Pocket ticket-box. No. 1,370,500; Mar. 8; v. 284; p. 198.
- Russell, Guy M., Syracuse, assignor to American Piano Company, New York, N. Y. Power-unit mounting for musical instruments. No. 1,381,666; June 14; v. 287; p. 306.
- Russell, Herbert H., New Haven, Conn., assignor to The Grest Manufacturing Company. Sewing-machine ruffler. No. 1,392,970; Oct. 11.
- Russell, James W., San Diego, Calif. Ship. No. 1,377,222; May 10; v. 286; p. 216.
- Russell, John K., Waterloo, N. Y. Machine for cleaning blackboard-erasers. No. 1,375,642; Apr. 19; v. 285; p. 540.
- Russell, John M., San Francisco, Calif. Amusement device. No. 1,373,765; Apr. 5; v. 285; p. 74.
- Russell, John M. and F. C., San Bruno, Calif. Fluid clutch and transmission. No. 1,383,311; Aug. 23; v. 289; p. 647.
- Russell, Lewis J., Oilton, Okla. Tension for steering-knuckles. No. 1,391,081; Sept. 20; v. 290; p. 460.
- Russell, Manning W., Curtis, La. Mole-trap. No. 1,385,024; July 19; v. 288; p. 497.
- Russell, Nelson J., Chicago, Ill. Fuel-saving attachment for furnace. No. 1,380,597; June 7; v. 287; p. 52.
- Russell, Nelson J., Chicago, Ill. Fuel-saving device for furnaces. No. 1,392,453; Oct. 4.
- Russell, Richard E., Perrysburg, Ohio. Fuel-mixture controller. No. 1,391,144; Sept. 20; v. 290; p. 474.
- Russell Sales Co. (See Binder, Russell T., assignor.)
- Russell, Samuel I., Chicago, Ill. Electric sadiron. No. 1,370,916; Mar. 8; v. 284; p. 265.
- Russell, Thomas C., Chicago, Ill. Hair-marceling apparatus. No. 1,397,332; Nov. 15.
- Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-roof. No. 1,378,057; May 17; v. 286; p. 430.
- Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car construction. No. 1,385,998; July 26; v. 288; p. 648.
- Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car construction. No. 1,385,999; July 26; v. 288; p. 648.
- Russell, Thomas T. (See Watkins, Sylvester A., assignor.)
- Russell, Vernon. (See Dutcher, Robert O., assignor.)
- Russell, Vernon W. (See Kyle, J. T. and Russell.)
- Russell, William C., East Sheen, Surrey, England. Method of and means for increasing the output of power engines of aircraft. No. 1,364,810; Jan. 4; v. 282; p. 147.
- Russell, William C., East Sheen, England. Aircraft having adjustable blades. No. 1,389,991; Sept. 6; v. 290; p. 87.
- Russell, William H., New Haven, Conn. Combination dustpan and broom. No. 1,375,017; Apr. 19; v. 285.
- Russell, William H., New Haven, Conn. Cooking set. No. 1,387,667; Aug. 16; v. 289; p. 462.
- Russell, William S., St. Louis, Mo. Automatic type-cabinet. No. 1,393,317; Oct. 11.
- Russo, Domenico J. (See Robinson, J. T., Gooding, and Russo.)
- Russo Rocco, New York, N. Y. Convertible article of furniture. No. 1,388,895; Aug. 30; v. 289; p. 816.
- Russo, Sully. (See McDougall, T., and Russo.)
- Rust, Edwin G., Sioux City, Iowa. Container-closure. No. 1,377,526; May 10; v. 286; p. 275.
- Rust, Edwin G., Sioux City, Iowa. Container-closure. No. 1,381,137; June 14; v. 287; p. 209.
- Rust, John W. (See Larsen, Stella C., assignor.)
- Rust, Mortimer R., assignor to Dilts Machine Works, Inc., Fulton, N. Y. Beater roll and bar. No. 1,368,757; Feb. 15; v. 283; p. 472.
- Rust-Oppenheim, Aug. (See Olsson, Zacharias, assignor.)
- Rust, Robert R., New York, N. Y. Making cast chains. No. 1,398,706; Nov. 29.
- Ruston, William B. (See Witsaman, George H., assignor.)
- Ruszcak, John. (See Ruszcak, Valentine, and J.)
- Ruszcak, Valentine and J. (Chicago, Ill. Onion-planting machine. No. 1,371,441; Mar. 15; v. 284; p. 431.
- Rutenber, Edwin A., assignor to Rutenber Electric Company, Marion, Ind. Toaster. No. 1,364,811; Jan. 4; v. 282; p. 147.
- Rutenber Electric Company. (See Rutenber, Edwin A., assignor.)
- Rutgerswerke Aktiengesellschaft. (See Szarvassy, I. and Bessel, assignors.)
- Ruth, James A., Marion, N. C. Automatically-locked metering door and gate device. No. 1,390,725; Sept. 13; v. 290; p. 326.
- Ruth, Joseph P., Jr., Denver, Colo. Gas washing and humidifying process. No. 1,365,278; Jan. 11; v. 282; p. 282.
- Ruth, Joseph P., Jr., Denver, Colo. Manifold-heater. No. 1,388,377; Aug. 23; v. 289; p. 660.
- Rutherford, John, Jr., and T. F. Baker, assignor to The Embossing Company, Albany, N. Y. Game. No. 1,387,946; Aug. 16; v. 289; p. 517.
- Rutherford, Nealon D., Lansing, Mich., assignor to United Engine Company. Milking-machine. No. 1,391,980; Sept. 27; v. 290; p. 716.
- Rutherford, Norman F., East Falmouth, Mass. Suspension apparatus. No. 1,391,794; Sept. 27; v. 290; p. 677.
- Rutherford, Robert B., St. Louis, Mo. Automobile-lock. No. 1,395,146; Oct. 25.
- Rutherford, Thomas N., and E. H. Rudolph, Oilton, Okla. Device for loading gasoline in tank-cars. No. 1,385,843; July 26; v. 288; p. 739.
- Rutherford, William A., Salem, Oreg. Dirigible headlight. No. 1,395,147; Oct. 25.
- Rutherford, Robert A., New York, N. Y. Soil-cultivator. No. 1,377,602; May 10; v. 286; p. 289.
- Ruthsatz, Edward R., St. Louis, Mo. Shoe and making the same. No. 1,396,783; Nov. 15.
- Ruths, Johannes C., Stockholm, Sweden. Electric power plant. No. 1,368,576; Feb. 15; v. 283; p. 437.
- Ruths, Johannes K., Djursholm, assignor to Aktiebolaget Vaporackumulator, Stockholm, Sweden. Supplementary power plant for electric centrals. No. 1,366,215; Jan. 18; v. 282; p. 503.
- Ruths, Johannes K., Djursholm, assignor to Aktiebolaget Vaporackumulator, Stockholm, Sweden. Short-time digesting in sulfite or sulfate digesters. No. 1,368,577; Feb. 15; v. 283; p. 437.
- Ruthven, Alfred L., Buffalo, assignor to Simplex Train Control Co. Inc., Rochester, N. Y. Means of electrical track-circuit control. No. 1,372,457; Mar. 22; v. 284; p. 682.
- Ruthven, Alfred L., assignor to Simplex Train Control Company, Inc., Rochester, N. Y. Electromagnetic train-control and danger-indicating means and recording means. No. 1,374,954; Apr. 19; v. 285; p. 408.
- Ruthven, Gilbert, Larkhall, Scotland. Art of lithographic printing. No. 1,364,523; Jan. 4; v. 282; p. 93.
- Rutishauser, Arnold, assignor to the Firm Motor-Wagenfabrik Berna A-G., Olten, Switzerland. Rotary earth-working-machine. No. 1,368,355; Feb. 15; v. 283; p. 393.
- Rutishauser, Arnold, assignor to Firm of Motorwagenfabrik Berna A-G., Olten, Switzerland. Rotary digging-machine. No. 1,383,761; July 5; v. 288; p. 105.
- Rutishauser, Emil. (See Jost, Heinrich, assignor.)
- Rutkowski, Stanley. (See Dembowski, Stephen, assignor.)
- Rutledge, Guy W., Huron, S. D. Journal-box jack. No. 1,385,892; July 26; v. 288; p. 749.
- Rutledge, James J., Pittsburgh, Pa. Outlet-box. No. 1,383,487; July 5; v. 288; p. 47.
- Rutledge, William T., Santa Ana, Calif. Hose-clamp. No. 1,369,755; Feb. 22; v. 283; p. 705.
- Ruttan, Alfred A., and C. E. Hutchings, assignors to Eastman Kodak Company, Rochester, N. Y. Plate-magazine for cameras. No. 1,399,884; Dec. 13.
- Rutten, Frank M., assignor to A. R. Hilsabeck, Grand Forks, N. D. Automatic safety adjustable tractor-coupling. No. 1,394,793; Oct. 25.
- Rutter, Bennie O. (See Wood, Ray W., assignor.)
- Rutter, Gertrude L. (See Rutter, Lawrence D., assignor.)
- Rutter, Lawrence D., Westfield, Mass., assignor of one-half to Gertrude L. Rutter. Headlight-dimmer. No. 1,364,812; Jan. 4; v. 282; p. 148.
- Ruttle, William H., Seattle, Wash. Butter-cutter. No. 1,370,158; Mar. 1; v. 284; p. 76.
- Rutz, Arnold O., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Igniter for gas-stoves. No. 1,370,917; Mar. 8; v. 284; p. 265.
- Rutz, Arnold O., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Flash-igniter. No. 1,376,646; May 3; v. 286; p. 50.
- Rutz, Henry J., Lake City, Minn. Variable track-hinge. No. 1,388,205; Aug. 23; v. 289; p. 625.
- Rutz, John A., Wilkes-Barre, Pa. Article-holder. No. 1,364,210; Jan. 4; v. 282; p. 32.
- Rutzke, Rudolph C., Wellston, Mo. Detachable metallic heel. No. 1,370,918; Mar. 8; v. 284; p. 266.
- Ruud, Edwin, Pittsburgh, Pa., assignor to Ruud Manufacturing Company, Camden, N. J. Storage water-heater. (Reissue.) No. 15,136; June 28; v. 287; p. 726.
- Ruud Manufacturing Company. (See Ruud, Edwin, assignor.) (Reissue.)
- Ryals, Dudley R., Richmond, Va. Telegraph-pole. No. 1,373,979; Apr. 5; v. 285; p. 118.
- Ryals, Jesse H., assignor of one-half to G. W. Scofield, Inverness, Fla. Wire-stretcher. No. 1,401,739; Dec. 27.
- Ryalls, John H., Charlottesville, Va. Reversible transmission for spinning-mules. No. 1,396,883; Nov. 15.
- Ryan, Albert J., Cincinnati, Ohio. Box-toe form. No. 1,401,365; Dec. 27.



## Alphabetical list of patentees—Continued.

- Ryan, Alfred, Oldham, assignor to Vickers Limited, Westminster, London, England. Air-bag and salvage method for raising sunken vessels and other objects. No. 1,364,646; Jan. 4; v. 282; p. 115.
- Ryan, Arthur F. (See Wellington, A. W., and Ryan.)
- Ryan, Charles F. (See McKelvey, J. H., and Ryan.)
- Ryan, Fred H., et al. (See Hale, R. J., and Doyle, assignors.)
- Ryan, James E., San Diego, Calif. Blue-flame gas-saver. No. 1,364,813; Jan. 4; v. 282; p. 148.
- Ryan, John, Dubuc, Saskatchewan, Canada. Hammer. No. 1,389,103; Aug. 30; v. 289; p. 857.
- Ryan, John C., Toronto, Ontario, Canada. Vehicle-head-light. No. 1,365,279; Jan. 11; v. 282; p. 282.
- Ryan, John C., Toronto, Ontario, Canada. Light-projecting apparatus. No. 1,382,016; June 21; v. 287; p. 433.
- Ryan, John H., Kalamazoo, Mich., assignor to D. R. Seaman, Chicago, Ill. Process for treating clay. No. 1,385,716; July 26; v. 288; p. 714.
- Ryan, John H., Brighton, Mass. Chain-clamp. No. 1,399,885; Dec. 13.
- Ryan, John W., Springfield, Ill. Tie. No. 1,390,928; Sept. 13; v. 290; p. 367.
- Ryan, Michael B., Milford, Conn., assignor to Off 'N' On Chain Corporation, New York, N. Y. Non-skid chain. No. 1,400,320; Dec. 13.
- Ryan, Nicholas J., Tuckahoe, N. Y. Indicator means for car-seats. No. 1,371,816; Mar. 15; v. 284; p. 503.
- Ryan, Oscar, Sioux City, Iowa. Diaphragm for talking machines. No. 1,364,890; Jan. 11; v. 282; p. 206.
- Ryan, Patrick J., New York, N. Y. Anchor. No. 1,392,526; Oct. 4.
- Ryan, Richard, Cleveland, Ohio. Block or brick making machine. No. 1,376,731; May 3; v. 286; p. 66.
- Ryan, Thomas, Jenks, Ala. Tank. No. 1,378,725; May 17; v. 286; p. 558.
- Ryan, Thomas A., et al. (See Sherwood, Charles F., assignor.)
- Ryan, Thomas F. (See Thompson, John T., assignor.)
- Ryan, Thomas J., Tulsa, Okla. Oil-distilling apparatus. No. 1,397,984; Nov. 22.
- Ryan, William C., and G. C. Ruhmann, Kenedy, Tex. Insect-catcher. No. 1,396,345; Nov. 8.
- Ryason, Samuel M., Oquawka, Ill. Napkin-clasp. No. 1,393,577; Oct. 11.
- Ryberg, Axel T., Langaa, Denmark. Key-slot cutter. No. 1,364,524; Jan. 4; v. 282; p. 93.
- Rydbeck, Patrik S., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Ball-bearing. No. 1,366,026; Jan. 18; v. 282; p. 467.
- Rydberg, John T., Harrisburg, Pa. Automatic music-sheet tracker for harp instruments. No. 1,373,100; Mar. 29; v. 284; p. 849.
- Ryder, Charles D., Covington, Ky., assignor to The Corcoran Victor Company, Cincinnati, Ohio. No. 1,386,803; Aug. 9; v. 289; p. 238.
- Ryder, Charles W., assignor of one-half to William Dietz, Chicago, Ill. Sprocket-pin driver for motion-picture machines. No. 1,381,667; June 14; v. 287; p. 307.
- Ryder, David E., Newburgh, N. Y. Corn-cutting device. No. 1,395,929; Nov. 1.
- Ryder, Elmer. (See Nichols, J. C., and Ryder.)
- Ryder, Elmer, Argo, Ill. Cut-out valve. No. 1,398,976; Dec. 6.
- Ryder, Henry, New York, N. Y. Pneumatic tire. No. 1,392,853; Oct. 4.
- Ryder, P. H., and C. W. Moore, Bucyrus, Ohio. Oil-burner. No. 1,398,397; Nov. 29.
- Ryerson, Cornelius A., Toronto, Ontario, Canada. Fuel-saving attachment for furnaces. No. 1,369,841; Mar. 1; v. 284; p. 17.
- Ryerson, Joseph T., & Son. (See Case, G. Harry, assignor.)
- Ryerson, Joseph T., & Son. (See Kunzer, John G., assignor.)
- Ryesky, Alexander S. (See Updegrave, W. M., and Ryesky.)
- Rykken, Harold P., Port Orchard, Wash. Jar-holder. No. 1,397,457; Nov. 15.
- Ryman, Noel G., et al. (See Bolton, Philip W., assignor.)
- Rymowicz, Stefan, Kenosha, Wis. Tire-carrier. No. 1,380,420; June 7; v. 287; p. 18.
- Ryner, Arthur. (See Woodville, Richard C., assignor.)
- Ryon, Anna T. (See Ryon, Edward A. and A. T.)
- Ryon, Edward A., assignor to F. W. Siemens, Wellsboro, Pa. Glass-grinding machine. No. 1,373,835; Apr. 5; v. 285; p. 89.
- Ryon, Edward A., assignor to F. W. Siemens, Wellsboro, Pa. Glass-grinding machine. No. 1,373,836; Apr. 5; v. 285; p. 89.
- Ryon, Edward A. and A. T., assignors to Quality Glass Company, Pittsburgh, Pa. Glass-grinding machine. No. 1,372,553; Mar. 22; v. 284; p. 700.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread-cutter for looms. No. 1,366,949; Feb. 1; v. 283; p. 14.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-carrier-releasing mechanism. No. 1,366,950; Feb. 1; v. 283; p. 14.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing mechanism. No. 1,366,951; Feb. 1; v. 283; p. 14.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing mechanism. No. 1,369,473; Feb. 22; v. 283; p. 649.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing mechanism for weft-replenishing looms. No. 1,369,474; Feb. 22; v. 283; p. 649.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing loom. No. 1,372,315; Mar. 22; v. 284; p. 655.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing loom. No. 1,372,316; Mar. 22; v. 284; p. 656.
- Ryon, Eppa H., Waltham, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle-placer. No. 1,375,732; Apr. 26; v. 285; p. 589.
- Ryon, Eppa H., Waltham, and R. E. Welsh, New Bedford, Mass., assignors to Crompton & Knowles Loom Works. Picker-stick check. No. 1,366,952; Feb. 1; v. 283; p. 14.
- Rys, Albert, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Armor-piercing shell. No. 1,383,012; June 28; v. 287; p. 675.
- Rysiek, Casimir, Chicago, Ill. Tablecloth-stretcher. No. 1,386,205; Aug. 2; v. 289; p. 49.
- Rystedt, Ingemar, Dayton, Ohio. Spark-plug. No. 1,371,058; Mar. 8; v. 284; p. 293.
- Rystedt, Ingemar K., Dayton, Ohio. Vulcanizing apparatus. No. 1,376,463; May 3; v. 286; p. 16.
- Rystedt, Ingemar K., assignor of one-half to A. D. Miller, Dayton, Ohio. Silencer for automotive equipment. No. 1,399,157; Dec. 6.
- S. G. V. Electrical Co. (See Schindler, B., and Viertel, assignors.)
- S K F Ball Bearing Company. (See Wikander, O. K., assignor.)
- S. K. & S. Co. (See Springer, William N., assignor.)
- S-R Mfg. Co. (See Robertson, W. D., and Savage, assignors.)
- Saal, Henry G. (See Stafford, Frederick S., assignor.)
- Saal, Henry G., Chicago, Ill. Spring-motor. No. 1,393,167; Oct. 11.
- Sabel, Sidney Ralph, Chicago, Ill. Dustcap for automobiles. No. 1,397,235; Nov. 15.
- Sabin, Alfred B., Laramie, Wyo. Stroke-regulator for windmills. No. 1,378,621; May 17; v. 286; p. 537.
- Sabin, Ford L., Cleveland Heights, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Compensating truck for cranes. No. 1,368,356; Feb. 15; v. 283; p. 393.
- Sabin, Ford L., Cleveland Heights, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Dock-crane. No. 1,378,981; May 24; v. 286; p. 679.
- Sabin, John. (See Crass, George H., assignor.)
- Sable, Isaac L., New York, N. Y. Combined hood and scarf. No. 1,399,523; Dec. 6.
- Sabo, Julius G., New Haven, Conn., assignor to Westinghouse Air Spring Company. Cup-washer expander. No. 1,389,222; Aug. 30; v. 289; p. 881.
- Sabo, Robert M. (See Domhoff, J. F., and Sabo.)
- Saborsky, Arthur D., Lakewood, Ohio, assignor, by mesne assignments, to The Advance Manufacturing Company, Detroit, Mich. Inking mechanism. No. 1,377,142; May 3; v. 286; p. 145.
- Sabot, Francis, Philadelphia, Pa., assignor to Rudolph Sattler, Cincinnati, Ohio. Embossing printing-press. No. 1,367,565; Feb. 8; v. 283; p. 193.
- Sabourin, Jean B., Norton, Mass., assignor to Eisenstadt Manufacturing Company, St. Louis, Mo. Cuff-button. No. 1,382,123; June 21; v. 287; p. 452.
- Sacane, Tony, Gallatin, Pa. Game. No. 1,400,461; Dec. 13.
- Sachnoff, George, Brooklyn, N. Y. Wardrobe-trunk. No. 1,378,881; May 17; v. 286; p. 491.
- Sachnoff, George, Brooklyn, N. Y. Wardrobe-trunk. No. 1,380,024; May 31; v. 286; p. 950.
- Sachs, Joseph, Hartford, Conn. Safety electrical connecting appliance. No. 1,365,729; Jan. 18; v. 282; p. 408.
- Sachs, Solomon, Washington, D. C. Display device. No. 1,391,583; Sept. 20; v. 290; p. 562.
- Sachse, Arthur C., Detroit, Mich. Flashlight. No. 1,384,636; July 12; v. 288; p. 336.
- Sachse, Paul C., St. Louis, Mo. Water-heater. No. 1,391,695; Sept. 27; v. 290; p. 658.
- Sackett, Archie R., San Pedro, Calif. Weighing-refrigerator. No. 1,389,533; Aug. 30; v. 289; p. 943.
- Sackett, Filertus, Kansas City, Mo. Shock-absorber for automobiles. No. 1,396,595; Nov. 8.
- Sackett, Orville R., Niagara Falls, N. Y. Air-valve. No. 1,378,426; May 17; v. 286; p. 500.
- Sackley, James A., Company. (See Fletcher, Joseph, assignor.)
- Sackren, William, Brooklyn, N. Y. Radiator-core. No. 1,393,042; Oct. 11.
- Sacks, Abraham, Brooklyn, N. Y. Tire-casing. No. 1,365,280; Jan. 11; v. 282; p. 282.
- Saco-Lowell Shops. (See Curley, Robert S., assignor.)
- Sadler, Edward C., assignor to T. Bergmann, Portland, Oreg. Calk-lock. No. 1,390,165; Sept. 6; v. 290; p. 122.



## Alphabetical list of patentees—Continued.

- Sadler, F. H. Company. (See Bottomley, Arthur L., assignor.)
- Sadler, Henry A., Swampscott, assignor to Plymouth Rubber Company, Canton, Mass. Machine for shaping the lips of insoles. No. 1,364,845; Jan. 4; v. 282; p. 153.
- Sadtler, Helena S., Springfield township, Montgomery county, Pa. Smocking-pattern. No. 1,377,631; May 10; v. 286; p. 295.
- Sadtler, Samuel S. (See Bassett, H. P., and Sadtler.)
- Sadtler, Samuel S., Springfield township, Montgomery county, Pa. Recovering volatile solvents. No. 1,365,791; Jan. 18; v. 282; p. 421.
- Saegesser, Albert W., Granite City, Ill., assignor to Liberty Auto Lock Co., St. Louis, Mo. Lock for hubcaps. No. 1,396,884; Nov. 15.
- Safandshur Chemical Co. (See Hamilton, John L., assignor.)
- Safe-Cabinet Company, The. (See Lee, Gilbert C., assignor.)
- Safe Deposit and Trust Company of Baltimore, *et al.*, trustee. (See Mergenthaler, Eugene G., assignor.)
- Safe-Guard Check-Writer Company. (See Whitaker, John, assignor.)
- Safepack Mills. (See Currier, Andrew E., assignor.)
- Safepack Mills. (See Schwartz, Aaron, assignor.)
- Safepack Mills. (See Wandel, Kurt, assignor.)
- Safepack Paper Mills. (See Currier, A. E., and Schenkelberger, assignors.)
- Safety Block Signal Company, The. (See Williams, Frank C., assignor.)
- Safety Car Heating and Lighting Company. (See Creveling, John L., assignor.)
- Safety Car Heating & Lighting Company. (See Pender, Harold, assignor.)
- Safety Car Heating & Lighting Company. (See Thomson, William I., assignor.)
- Safety Car Heating and Lighting Company, The. (See Watson, Leonard A., assignor.)
- Safety Nut & Bolt Company, The. (See Stevenson, Ralph D., assignor.)
- Safety Oiling System, Incorporated. (See Kralicek, Charles, assignor.)
- Safety Release Clevis Co. (See Hulsebos, A. B., and Den Besten, assignors.)
- Safety Truck Brake Co. (See Halladay, Fred G., assignor.)
- Saffold, Ray P., Warren, Ariz. Drill-column. No. 1,380,255; May 31; v. 286; p. 993.
- Safford, Louis A., St. Louis, Mo. Piston-ring. No. 1,391,795; Sept. 27; v. 290; p. 677.
- Saffko, John A., Munson, Pa. Nut-lock. No. 1,398,446; Nov. 29.
- Safstrom, Esther V. (See Kriesel, Gustave F., assignor.)
- Sage, Frank. (See Leo, Frank, assignor.)
- Sage, Ralph V., Philadelphia, Pa. Car construction. No. 1,388,896; Aug. 30; v. 289; p. 816.
- Sager, Eli E., and O. L. King, San Francisco, Calif. Combination carbonator and filler. No. 1,394,794; Oct. 25.
- Sager, Erferd, Hamilton, Ontario, Canada. Automatic train-stop. No. 1,397,055; Nov. 15.
- Sager, George A., Albany, N. Y. Train-pipe coupling. No. 1,365,730; Jan. 18; v. 282; p. 409.
- Sager, Sidmoor S., Buffalo, N. Y. Pump for fruit-jars and the like. No. 1,384,780; July 19; v. 288; p. 446.
- Sagerman, Frederick, Canton, Ohio. Cloak and robe lock. No. 1,395,525; Nov. 1.
- Sagle, Roy E., Roseville, Ohio. Signal system. No. 1,395,208; Oct. 25.
- Sahlén, John, Chicago, Ill. Thermal circuit-closer. No. 1,366,286; Jan. 18; v. 282; p. 517.
- Sahlén, John, Oak Park, Ill., assignor to E. Kiefer, trustee, Milwaukee, Wis. Thermostatic signal for automobile radiators. No. 1,372,554; Mar. 22; v. 284; p. 700.
- Saint, Aimée M., Kaplan, La. Preparing whole rice. No. 1,387,560; Aug. 16; v. 289; p. 441.
- St. Clair, Merle C. (See Bronson, G. C., and St. Clair.)
- St. Clair, William C. (See Buschino, Charles, assignor.)
- St. John, Ansel, Cleveland, Ohio, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Air-brake controlling apparatus. (Reissue.) No. 15,256; Dec. 27.
- St. John, Miles C., assignor of one-half to J. Erickson, Chicago, Ill. Electroplated propeller for aerial vehicles. No. 1,385,802; July 26; v. 288; p. 732.
- Saint Pierre, Henry, Williamstown, Vt. Anti-skid device. No. 1,368,834; Feb. 15; v. 283; p. 487.
- St. Pierre, Octave J., Chicago, Ill. Game. No. 1,396,073; Nov. 8.
- Sakazami, Sutekichi, Osaka, Japan. Summer-hat. No. 1,390,818; Sept. 13; v. 290; p. 345.
- Sakanashi, Charles S., San Mateo, Calif. Dirigible spotlight for motor-vehicles. No. 1,381,342; June 14; v. 287; p. 245.
- Sakryd, Charles H., and H. M. Rosencrans, assignors to The Grasselli Chemical Company, Cleveland, Ohio. Suspended arsenate of lead and making same. No. 1,390,647; Sept. 13; v. 290; p. 312.
- Sakryd, Charles H., and H. M. Rosencrans, assignors to The Grasselli Chemical Company, Cleveland, Ohio. Suspended arsenate of lead and making same. No. 1,390,648; Sept. 13; v. 290; p. 312.
- Saladiner, Joseph M., Bryan, Tex. Cotton-pest-destroying machine. No. 1,382,017; June 21; v. 287; p. 433.
- Salamon, Peter, Philadelphia, Pa. Metallic railway-tie and fastener. No. 1,373,356; Mar. 29; v. 284; p. 901.
- Salas, Adolfo S., Buenos Aires, Argentina. Pneumothermic apparatus. No. 1,380,841; June 7; v. 287; p. 99.
- Sale, Robert A., Philadelphia, Pa. Toy dump-cart. No. 1,364,586; Jan. 4; v. 282; p. 104.
- Salem Manufacturing Company. (See Harris, William K., assignor.)
- Salerno, Anthony G., Chicago, Ill. Collar. No. 1,375,182; Apr. 19; v. 285; p. 452.
- Salgee, Charles P., Philadelphia, Pa. Antiskid-tire. No. 1,381,749; June 14; v. 287; p. 323.
- Salgee, Charles P., Philadelphia, Pa. Antiskid-tire. No. 1,385,926; July 26; v. 288; p. 756.
- Salgee, Charles P., Philadelphia, Pa. Means and method for making signs. No. 1,390,166; Sept. 6; v. 290; p. 122.
- Salgee, Charles P., Philadelphia, Pa. Brake for aeroplanes. No. 1,400,462; Dec. 13.
- Saliger, Alois B., assignor to Saliger Ship Salvage Corporation, New York, N. Y. Burrowing-machine. No. 1,372,317; Mar. 22; v. 284; p. 656.
- Saliger, Alois B., assignor to Saliger Ship Salvage Corporation, New York, N. Y. Burrowing-machine. No. 1,372,318; Mar. 22; v. 284; p. 656.
- Saliger, Alois B., assignor to Saliger Ship Salvage Corporation, New York, N. Y. Resilient pontoon. No. 1,384,094; July 12; v. 288; p. 222.
- Saliger Ship Salvage Corporation. (See Saliger, Alois B., assignor.)
- Salisbury, Raymond, *et al.* (See White, Tilman, assignor.)
- Sallee, Harvey J., Whitehouse, Calif. Internal-combustion engine. No. 1,380,742; June 7; v. 287; p. 79.
- Salmon, Edward W., Jr., assignor to Hull, Salmon Mfg. Co., Inc., Baltimore, Md. Film-cabinet. No. 1,400,503; Dec. 13.
- Salmon, James P., *et al.* (See Dunn, Edmund L., assignor.)
- Salmonsén, Nell, assignor to Berger Brothers Company, Philadelphia, Pa. Gutter or eaves-trough hanger or support. No. 1,384,856; July 19; v. 288; p. 462.
- Salomaa, Arvid, Duluth, Minn. Nail-holder for hammers. No. 1,379,838; May 31; v. 286; p. 915.
- Salsich, Neil E., Bethlehem, Pa. Switch-stand. No. 1,384,488; July 12; v. 288; p. 304.
- Salsich, Neil E., Bethlehem, Pa. Automatic safety spring-latch. No. 1,393,246; Oct. 11.
- Saltalamachia, Anthony F., Huntington Park, Calif. Table. No. 1,398,496; Nov. 29.
- Salter, Leslie, Vallejo, Calif. Vise-operator. No. 1,393,834; Oct. 18.
- Salter, William A., Kansas City, Mo. Cylinder-lapping tool. No. 1,398,398; Nov. 29.
- Saltiel, Henry C., Rawlins, Wyo. Journal-box. No. 1,380,256; May 31; v. 286; p. 993.
- Saltmarsh, George H. (See Letchford, P. H., and Saltmarsh.)
- Salto, Salvatore, Milan, Italy. Limiter for alternating currents. No. 1,372,091; Mar. 22; v. 284; p. 612.
- Saltzer, Andrew. (See Shenk, A. M., and Saltzer.)
- Saltzer, Louis. (See Shenk, A. M., and Saltzer.)
- Salviolo, Carmine J., deceased, by M. J. Salviolo, executor, Brooklyn, N. Y. Cutting and punching machine. No. 1,383,762; July 5; v. 288; p. 105.
- Salviolo, Michael J., executor. (See Salviolo, Carmine J.)
- Samaín, Pierre, Cusy, France. Gearing. No. 1,390,971; Sept. 13; v. 290; p. 376.
- Samaín, Pierre, Cusy, France. Tubular flood or sluice gate. No. 1,393,578; Oct. 11.
- Sametz, Louis, Brooklyn, N. Y. Power-press. No. 1,390,589; Sept. 13; v. 290; p. 293.
- Samokiszczuk, Anton. (See Marzak, Frank, assignor.)
- Samphere, Orin C., West Allis, Wis. Dental device. No. 1,381,750; June 14; v. 287; p. 323.
- Sampson, Arthur H., *et al.* (See Smith, Wilson G., assignor.)
- Sampson, John. (See Ensor, H. E., and Sampson.)
- Sampson, Lloyd J., Worcester, Mass. Telephone attachment. No. 1,381,343; June 14; v. 287; p. 246.
- Sampson, Philip H., Waukegan, Ill. Railway-track construction. No. 1,396,596; Nov. 8.
- Sampson, Theodore, Alamo, N. D. Cut-out pedal. No. 1,370,489; Mar. 1; v. 284; p. 139.
- Sams, Fred V., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Flow-indicator. No. 1,385,717; July 26; v. 288; p. 714.
- Samson, Henry F., Oakley, Idaho. Wrench. No. 1,371,118; Mar. 8; v. 284; p. 304.
- Samstag, Louis A., New York, N. Y. Hair-net-display device. No. 1,376,782; May 3; v. 286; p. 76.
- Samuel, Barnet & Sons Limited. (See Horton, Richard W., assignor.)
- Samuel, Barnett & Sons. (See Samuel, Wilfred S., assignor.)
- Samuel, Herman, Stockholm, Sweden. Measuring instrument. No. 1,386,899; Aug. 9; v. 289; p. 258.
- Samuel, Lester E., Brownsville, Oreg. Circuit-breaker for reversible motors. No. 1,399,801; Dec. 13.
- Samuel, Wilfred S., assignor to Barnett, Samuel & Sons, Limited, London, England. Talking-machine. No. 1,395,364; Nov. 1.



*Alphabetical list of patentees—Continued.*

- Samuel, William R., and R. Wertheimer, Chicago, Ill. Holder for Christmas trees. No. 1,372,777; Mar. 29; v. 284; p. 785.
- Samuels, Charles B., Tulsa, Okla. Milk-bottle carrier. No. 1,377,931; May 10; v. 286; p. 354.
- Samuels, John D., and H. E. Bates, Idaho Falls, Idaho. Seed-beet planter. No. 1,396,784; Nov. 15.
- Samuels, Maurice M. (See Bechoff, E., and Samuels.)
- Samuels, Maurice M., and F. N. Bechoff, New York, N. Y. Disconnecting-switch. No. 1,381,344; June 14; v. 287; p. 246.
- Samuelson, Carl R., Portland, Oreg. Cable-cutter. No. 1,381,019; June 7; v. 287; p. 134.
- Samuelson, Frederick, Rugby, England, assignor to General Electric Company. Apparatus for condensing steam and heating feed-water. No. 1,375,977; Apr. 26; v. 285; p. 635.
- Samuelson, Julius S., Duluth, Minn. Liquid-vending machine. No. 1,373,914; Apr. 5; v. 285; p. 104.
- Samuelson, Otto L., Chicago, Ill. Exercising apparatus. No. 1,386,206; Aug. 2; v. 289; p. 49.
- Samuelson, Peter W., and W. Christofferson, Pepin, Wis. Torsion-tube hoist and holder. No. 1,392,971; Oct. 11.
- Sanberg, Carl, *et al.* (See Gill, George W., assignor.)
- Sanborn, George A., Fox Lake, Wis. Envelop. No. 1,397,880; Nov. 22.
- Sanborn, John A. (See Hite, Fred A., assignor.)
- Sanche, Henri. (See Byrns, G., and Sanche.)
- Sanchez, Leonardo, assignor of one-half to A. Angulo, and twenty per cent. to M. J. Palmer, Habana, Cuba. Safety electric signal for railways. No. 1,393,701; Oct. 11.
- Sanchez, Leonardo, assignor of one-half to A. Angulo, and twenty per cent. to M. J. Palmer, Habana, Cuba. Ignition device for internal-combustion engines. No. 1,393,702; Oct. 11.
- Sanchez, Leonardo, assignor of one-half to A. Angulo, and twenty per cent. to M. J. Palmer, Habana, Cuba. Device for raising sunken vessels. No. 1,396,885; Nov. 15.
- Sand, William G. (See Wood, W. J., and Sands.)
- Sandbeck, Gustaf E., New York, N. Y. Slicing-machine. No. 1,381,091; June 7; v. 287; p. 147.
- Sandberg, James T., Gottenborg, Sweden. Belt-pulley and similar device. No. 1,382,321; June 21; v. 287; p. 489.
- Sandbo, Anton L., assignor to Bear Manufacturing Company, Rock Island, Ill. Antiskid device. No. 1,399,658; Dec. 6.
- Sande, Herman B., and O. Moessing, assignor to Moore Electric Corporation, Chicago, Ill. Hair-clipper. No. 1,396,530; Nov. 8.
- Sandefur, Telford, Roanoke, Va. Valve-lifter. No. 1,400,643; Dec. 13.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Radioreceiving apparatus. No. 1,366,953; Feb. 1; v. 283; p. 14.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Device for the modulation of sounds. No. 1,370,159; Mar. 1; v. 284; p. 76.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Armature-winding device. No. 1,371,647; Mar. 15; v. 284; p. 471.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Brush-holder. No. 1,376,041; Apr. 26; v. 285; p. 648.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Tone-arm construction. No. 1,376,042; Apr. 26; v. 285; p. 648.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Dynamo-electric machine. No. 1,381,505; June 14; v. 287; p. 275.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Phonograph control device. No. 1,381,506; June 14; v. 287; p. 275.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Phonograph control device. No. 1,381,507; June 14; v. 287; p. 276.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Fingering device for self-playing stringed instruments. No. 1,381,508; June 14; v. 287; p. 276.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Producing moving pictures. No. 1,381,849; June 14; v. 287; p. 341.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Electromagnetic switch. No. 1,382,246; June 21; v. 287; p. 475.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Reproducing sound-vibrations. No. 1,391,414; Sept. 20; v. 290; p. 528.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Wireless transmitting system. No. 1,391,855; Sept. 27; v. 290; p. 691.
- Sandell, Henry K., Chicago, Ill. Sound-reproducing apparatus. No. 1,399,403; Dec. 6.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Sound-box. No. 1,399,404; Dec. 6.
- Sandell, John F., Chicago, Ill. Internal-combustion engine. No. 1,391,981; Sept. 27; v. 290; p. 716.
- Sanders, Arthur J. (See Sanders, Ludwig A., and A. J.)
- Sanders, Douglas B. (See Oulianine, Serge, assignor.)
- Sanders, Edward, Monroe, Mich. Pump. No. 1,370,048; Mar. 1; v. 284; p. 55.
- Sanders, Edwin J., and J. W. Morrison, Sherman, Tex. Automatic turntable. No. 1,367,507; Feb. 1; v. 283; p. 124.
- Sanders, Florence E., Benson, Minn. Shoe-rack. No. 1,380,683; June 7; v. 287; p. 68.
- Sanders, Francis C., Pocatello, Idaho, assignor to Kawneer Manufacturing Company, Niles, Mich. Store-front construction. No. 1,371,442; Mar. 15; v. 284; p. 431.
- Sanders, George W., township 66, Worth county, Mo. Scoop-board and end-gate. No. 1,395,300; Nov. 1.
- Sanders, Harold C., Newport, Wales. Electrical apparatus for heating liquids. No. 1,396,597; Nov. 8.
- Sanders, John W., Burlington, Vt. Transmission. No. 1,365,546; Jan. 11; v. 282; p. 333.
- Sanders, Ludwig A., Amsterdam, and A. J. Sanders, Slaten, Netherlands. Coating process. No. 1,364,587; Jan. 4; v. 282; p. 104.
- Sanders, Millie, Oakland, Calif. Tonic and dressing for the human hair. No. 1,368,758; Feb. 15; v. 283; p. 472.
- Sanders, Myron J., Medimont, Idaho. Stall attachment. No. 1,399,659; Dec. 6.
- Sanders, Newell, Chattanooga, Tenn. Power-lift for plows. No. 1,386,955; Aug. 9; v. 289; p. 269.
- Sanders, Oscar F., Waco, Tex. Kettle-furnace. No. 1,387,807; Aug. 16; v. 289; p. 491.
- Sanders, Ralph L., Pleasantville, N. J. Floating knife. No. 1,386,956; Aug. 9; v. 289; p. 269.
- Sanders, Walter E., assignor to Essex Rubber Company, Inc., Trenton, N. J. Resilient heel. No. 1,333,763; July 5; v. 288; p. 105.
- Sanders, William N. (See Dixon, Allen, assignor.)
- Sanderson, Arthur L., Paluxy, Tex. Wire-stretcher. No. 1,396,062; Nov. 8.
- Sanderson, Ray R., Orrville, Ohio. Drilling-machine. No. 1,377,280; May 10; v. 286; p. 228.
- Sanderson, William, Pittsburgh, Pa. Hoisting mechanism for dumping-vehicles. No. 1,376,732; May 3; v. 286; p. 66.
- Sanderson, William, Pittsburgh, assignor to Simplex Manufacturing Company, Conneautville, Pa. End-gate for vehicles. No. 1,376,733; May 3; v. 286; p. 66.
- Sanderson, Wootson L., Meridian, Miss. Artificial stone or brick. No. 1,376,464; May 3; v. 286; p. 17.
- San Diego Consolidated Gas & Electric Company. (See Klauber, Laurence M., assignor.)
- San Diego Consolidated Gas & Electric Company. (See Symons, W. H., and Klauber, assignors.)
- San Diego Consolidated Gas and Electric Company. (See Watson, William V., assignor.)
- Sandilands, Alexander. (See James, C. E., Sandilands, and Smith.)
- Sandlin, James W., Humble, Tex. Pump-valve. No. 1,365,856; Jan. 18; v. 282; p. 433.
- Sando, Briant, assignor to Briant Specialty Company, Indianapolis, Ind. Game apparatus. No. 1,384,857; July 19; v. 288; p. 462.
- Sandor, Ferdinand, Theresa, Saskatchewan, Canada. Flower-pot. No. 1,376,117; Apr. 26; v. 285; p. 663.
- Sandow Motor Truck Company. (See Pearson, Carl L., assignor.)
- Sandoz, Frederick L., Opelousas, La. Flytrap. No. 1,369,357; Feb. 22; v. 283; p. 627.
- Sandquist, John V., Houston, Tex. Link. No. 1,397,458; Nov. 15.
- Sands, Richard, Osawatomie, Kans. Insulator. No. 1,384,214; July 12; v. 288; p. 247.
- Sands, Roy G., Waukegan, assignor to Frank B. Cook Company, Chicago, Ill. Soldering-iron. No. 1,372,778; Mar. 29; v. 284; p. 785.
- Sandstrom, August E., New York, N. Y. Device for spinning tops, &c. No. 1,384,972; July 19; v. 288; p. 485.
- Sandstrom, Theodore, Cleveland, Ohio. Short-turning-gear mechanism. No. 1,377,096; May 3; v. 286; p. 136.
- Sandusky, Joseph. (See Sandusky, Morris M. and J.)
- Sandusky, Morris M. and J., New York, N. Y. Shoe-shank. No. 1,384,858; July 19; v. 288; p. 462.
- Saner, Bert M. (See Snelling, S. A., and Saner.)
- Saner, Celestin. (See Van Orsdale, Allen A., assignor.)
- Saner, Curtis C. (See Rossiter, J. A., and Saner.)
- Saner, Emil J., West New York, N. J. Automobile-signal. No. 1,399,524; Dec. 6.
- Sanford-Day Iron Works. (See Sanford, H. W., Griffith, and Jones, assignors.)
- Sanford, George E. (See Buchanan, John W., assignor.)
- Sanford, Harold M., San Antonio, Tex. Internal-combustion motor. No. 1,372,250; Mar. 22; v. 284; p. 643.
- Sanford, Henry H., Mansfield, Ohio. Combined gaseous and solid fuel range. No. 1,377,731; May 10; v. 286; p. 314.
- Sanford, Hugh W., C. A. Griffith, and G. E. Jones, Jr., assignors to Sanford-Day Iron Works, Knoxville, Tenn. Railway-car. No. 1,388,486; Aug. 23; v. 289; p. 682.
- Sanford, Joseph R., Salisbury, Conn. Auto-top window-frame. No. 1,375,733; Apr. 26; v. 285; p. 589.
- Sanford, S., & Sons, Inc. (See Collins, Charles H., assignor.)
- Sanford, Sydney J., Los Angeles, Calif. Marine-engine governor or controller. No. 1,366,595; Jan. 25; v. 282; p. 623.
- Sanford, Sydney J., Los Angeles, Calif. Aeronautical clinometer. No. 1,377,442; May 10; v. 286; p. 260.
- Sanford, Thomas H., assignor of one-fourth to L. B. Coley, Alexander City, Ala. Latching device for car-couplings. No. 1,369,358; Feb. 22; v. 283; p. 627.



## Alphabetical list of patentees—Continued.

- Sanford, Thomas H., assignor of one-fourth to L. B. Coley, Alexander City, Ala. Brake-shoe. No. 1,395,365; Nov. 1.
- Sanguliano, Thomas, Wilkes-Barre, Pa. Nut-blanching machine. No. 1,393,168; Oct. 11.
- Sanitary Beverage Mixer Co. (See Schneider, Frank G., assignor.)
- Sanitary Garbage Box Company. (See Persson, Paul, assignor.)
- Sanitary Heating Company, The. (See Schofield, William H., assignor.)
- Sanitary Products Corporation of America. (See Jacoby, Leo D., assignor.)
- Sanitary Products Corporation of America. (See Mallory, George P., assignor.)
- Sanitax Brush Company. (See Hastings, Rolland T. R., assignor.)
- Sanitax Brush Company. (See Montgomery, Robert J., assignor.)
- Sanitax Brush Company. (See Poppenhusen, H. A., and Hastings, assignors.)
- Sani-Lite Cap Company. (See Beavers, E., and Webber, assignors.)
- Sankey, Henry C., St. Louis, Mo. Protective covering for rubber tires. No. 1,381,345; June 14; v. 287; p. 246.
- Sauneman, Diedrich B. (See Trubenbach, C. D., and Sauneman.)
- Santa Cruz Portland Cement Co. (See Bachman, Llewellyn T., assignor.)
- Santee, Clarence W., and L. J. Hylesbos, Wash. Can marking and assembling machine. No. 1,364,815; Jan. 4; v. 282; p. 148.
- Santee, Leonard J. (See Santee, Clarence W. and L. J.)
- Santilli, Nicola L., Philadelphia, Pa. Holder for phonograph disk records and the like. No. 1,371,577; Mar. 15; v. 284; p. 458.
- Santilli, Stefano, Canton, Ohio. Machine for making macaroni and noodles. No. 1,384,350; July 12; v. 288; p. 276.
- Santia, J. J., and G. M. White, El Reno, Okla. Traffic-signal for motor-vehicles. No. 1,398,653; Nov. 29.
- Santon, Joseph C., Worcester, Mass. Boring-tool holder. No. 1,397,786; Nov. 22.
- Santoro, Filippo, Holyoke, Mass. Extension-table. No. 1,392,527; Oct. 4.
- Santulli, Henry, Brooklyn, N. Y. Torpedo guard or shield. No. 1,367,566; Feb. 8; v. 283; p. 194.
- Saphil Manufacturing Corporation. (See Pihl, Karl A., assignor.)
- Sapp, Charles S., Jr., and R. Mount Vernon, Ohio. Testing apparatus. No. 1,368,659; Feb. 15; v. 283; p. 453.
- Sapp, George E., Sacramento, Calif. Vulcanizing air-bag. No. 1,380,930; June 7; v. 287; p. 116.
- Sapp, Ray. (See Sapp, Charles S., Jr., and R.)
- Sapper, Ralph J., Los Angeles, Calif., assignor to Wilson & Company, Chicago, Ill. Salting device. No. 1,394,221; Oct. 18.
- Sarbij, Mike, Ludlow, Mass. Door-lock. No. 1,378,622; May 17; v. 286; p. 538.
- Sard, Russell E., and Hans P. G. Norstrand, assignors to Rathboun Sard Electric Company Inc., Albany, N. Y. Electric range and kitchen-cabinet and bake-oven. No. 1,365,345; Jan. 11; v. 282; p. 294.
- Sarifaty, Morton E., New York, N. Y. Photographic camera. No. 1,389,992; Sept. 6; v. 290; p. 87.
- Sargent & Company. (See Page, Albert A., assignor.)
- Sargent & Company. (See Sargent, Edward R., assignor.)
- Sargent Company. (See Sargent, George H., assignor.)
- Sargent & Company. (See Shaw, John H., assignor.)
- Sargent & Company. (See Voight, Henry G., assignor.)
- Sargent, Allan C., Westford, Mass., assignor to C. G. Sargent's Sons Corporation. Support for drier-aprons. No. 1,401,366; Dec. 27.
- Sargent, Charles E., Indianapolis, Ind. Boiler feed-water purifier. No. 1,400,993; Dec. 20.
- Sargent, Daniel W., Davis, Calif. Kite-flying device. No. 1,372,909; Mar. 29; v. 284; p. 812.
- Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,374,327; Apr. 12; v. 285; p. 224.
- Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,384,156; July 12; v. 288; p. 235.
- Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,390,461; Sept. 13; v. 290; p. 272.
- Sargent, George E., Hampton, Iowa. Dumping-bed. No. 1,382,860; June 28; v. 287; p. 647.
- Sargent, George H., Chicago, Ill. Water-gage. No. 1,380,080; May 31; v. 286; p. 961.
- Sargent, George H., assignor to Sargent Company, Chicago, Ill. Water-gage. No. 1,380,079; May 31; v. 286; p. 960.
- Sargent, George H., assignor to Sargent Company, Chicago, Ill. Water-gage. No. 1,395,062; Oct. 25.
- Sargent, George W., Pittsburgh, and J. W. Weitzkorn, Washington, Pa. Recovering molybdenum from molybdenite. No. 1,401,924; Dec. 27.
- Sargent, George W., Pittsburgh, and J. W. Weitzkorn, Washington, Pa. Alloy steel. No. 1,401,925; Dec. 27.
- Sargent, George W., Pittsburgh, and J. W. Weitzkorn, Washington, Pa. Alloy steel. No. 1,401,926; Dec. 27.
- Sargent, George W., Pittsburgh, and J. W. Weitzkorn, Washington, Pa. Recovering molybdenum from molybdenite. No. 1,401,927; Dec. 27.
- Sargent, John A., Normanby, Taranaki, New Zealand. Socket for electric-light globes. No. 1,383,764; July 5; v. 288; p. 105.
- Sargent's, C. G., Sons Corporation. (See Sargent, Allan C., assignor.)
- Sargeson, Harry, Beverly, Mass. Boring and milling tool. No. 1,385,052; July 19; v. 288; p. 502.
- Sark, Elmer J., Bartlesville, Okla. Shield or protector for photographic cameras. No. 1,397,661; Nov. 22.
- Sarmas, Saul, Philadelphia, Pa. Gasoline-valve lock. No. 1,391,345; Sept. 20; v. 290; p. 514.
- Särnmark, Axel U., Gottenborg, Sweden. Automatic shut-off device for burners. No. 1,364,145; Jan. 4; v. 282; p. 19.
- Sarockin, Thomas and J. Magiolda, Crockett, Calif. Charcoal drier and cleaner. No. 1,392,225; Sept. 27; v. 290; p. 765.
- Sarra, Angelo D., New York, N. Y. Door-locking mechanism. No. 1,399,886; Dec. 13.
- Sarson, O. F., et al. (See Matheny, Thurston, assignor.)
- Sartain, Louis M., Pelham, Tenn. Lock-nut. No. 1,384,859; July 19; v. 288; p. 462.
- Sartin, Aubrey C., San Pedro, Calif. Match-holder. No. 1,371,982; Mar. 15; v. 284; p. 534.
- Sarup, Andrew J., assignor to A. M. Sarup, North Vancouver, British Columbia, Canada. Safety-hook. No. 1,398,654; Nov. 29.
- Sarup, Annie M. (See Sarup, Andrew J., assignor.)
- Sarver, Hiram L., Herrick, Ill. Automobile lift or hoist. No. 1,369,194; Feb. 22; v. 283; p. 595.
- Sasgen Derrick Co. (See Gloor, Albert, assignor.)
- Sass, Fred J., assignor to Culter & Proctor Stove Co., Peoria, Ill. Stove or range. No. 1,379,364; May 24; v. 286; p. 752.
- Sass, Fred J., assignor to Culter & Proctor Stove Co., Peoria, Ill. Stove or range. No. 1,384,157; July 12; v. 288; p. 236.
- Sasseen, John H., assignor to United Food Products Company, Houston, Tex. Food compound and making the same. No. 1,401,498; Dec. 27.
- Sater, Peter E. C., Cleveland, Ohio. Bushing for outlet-boxes. No. 1,394,942; Oct. 25.
- Sather, Carl G., Sioux Falls, S. D. Display-stand. No. 1,384,351; July 12; v. 288; p. 276.
- Sather, Oscar C., Minneapolis, Minn. Paintbrush carrying and preserving case. No. 1,373,766; Apr. 5; v. 285; p. 74.
- Satlow, Joseph. (See Koretzky, Harry M., assignor.)
- Sato, Goro, Sakura, Japan. Manufacture of decorative glass, porcelain, or the like. No. 1,372,555; Mar. 22; v. 284; p. 701.
- Satow, Sadakichi, Sendai, Japan. Food obtained from fish and making the same. No. 1,370,049; Mar. 1; v. 284; p. 56.
- Satterstrom, Ferdinand, Hastings, assignor to Magnetic Power Transmitter Company, Faribault, Minn. Typewriter. No. 1,367,991; Feb. 8; v. 283; p. 274.
- Satterstrom, Ferdinand, Hastings, assignor to Magnetic Power Transmitter Company, Faribault, Minn. Electrical actuating means for typewriter type-bars and other devices. No. 1,395,599; Nov. 1.
- Satterstrom, Ferdinand, Hastings, assignor to Magnetic Power Transmitter Company, Faribault, Minn. Electrical actuating means for typewriter type-bars and other devices. No. 1,395,600; Nov. 1.
- Sattler, Charles, Brooklyn, N. Y. Elastic body. No. 1,379,216; May 24; v. 286; p. 723.
- Sattler, Hans, Sheboygan, Wis. Travel-recorder for vehicles. No. 1,377,281; May 10; v. 286; p. 228.
- Sattler, John H., San Francisco, Calif. Combined coal and gas stove. No. 1,366,421; Jan. 25; v. 282; p. 587.
- Saugen, Peter B., Tacoma, Wash. Carbon-removing device. No. 1,401,499; Dec. 27.
- Sauchereau, John L. (See Freund, Louis L., assignor.)
- Saucke, Herman, New York, N. Y. Packing-ring. No. 1,364,814; Jan. 4; v. 282; p. 148.
- Saucke, Herman, New York, N. Y. Metal-drill. No. 1,394,865; Oct. 25.
- Saudino, Dominic, New York, N. Y. Ventilated shoe. No. 1,390,929; Sept. 13; v. 290; p. 367.
- Sauer, Adelbert, Pittsburgh, Pa. Heat-generator. No. 1,369,359; Feb. 22; v. 283; p. 627.
- Sauer, John G., Williamsport, Pa. Work-clamp. No. 1,372,833; Mar. 29; v. 284; p. 796.
- Sauer, John G., Rochester, N. Y. Lifting-jack. No. 1,393,247; Oct. 11.
- Sauereisen, Christian F., West View, Pa. Strain-insulator sign. No. 1,381,594; June 14; v. 287; p. 293.
- Sauerwald, Irvin, York, assignor to United States Chain & Forging Co., Pittsburgh, Pa. Tire-grip-chain fastener. No. 1,397,056; Nov. 15.
- Saul, Anton E., Welby, Colo. Mechanical attachment. No. 1,393,977; Oct. 18.
- Saul, Henry C., Douglas, Wyo. Clock-escapement. No. 1,395,148; Oct. 25.
- Saul, Tom W., Seattle, Wash. Milk-bottle-stopper remover. No. 1,387,014; Aug. 9; v. 289; p. 281.
- Saulsberry, Joseph, Peoria, Ill. Cushion-tire. No. 1,393,909; Oct. 18.



*Alphabetical list of patentees—Continued.*

- Saunders, Addison T. (See Saunders, George H., assignor.)
- Saunders, Addison T., Chicopee, Mass. Producing colored motion-picture films. No. 1,366,954; Feb. 1; v. 283; p. 15.
- Saunders, Addison T., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Boot or shoe sole. No. 1,390,462; Sept. 13; v. 290; p. 272.
- Saunders, Augustus M. (See Boyd, P., and Saunders.)
- Saunders, Benjamin P., Weston, Mo. Oil-can. No. 1,393,978; Oct. 18.
- Saunders, Cecil L., G. C. Stanley, and C. W. Bennett, Ithaca, N. Y. Fireproof varnish. No. 1,399,026; Dec. 6.
- Saunders, Clarence, assignor to Piggly Wiggly Corporation, Memphis, Tenn. Tape for adding-machines. No. 1,380,081; May 31; v. 286; p. 961.
- Saunders, Clarence, assignor to Piggly Wiggly Corporation, Memphis, Tenn. Self-serving store. No. 1,397,824; Nov. 22.
- Saunders, George H., Akron, Ohio, assignor of one-half to A. T. Saunders, Chicopee, Mass. Cereal and making the same. No. 1,391,696; Sept. 27; v. 290; p. 658.
- Saunders, Harold F., Boundbrook, N. J., assignor to The Glysyn Corporation, New York, N. Y. Producing olefins. No. 1,393,248; Oct. 11.
- Saunders, Harold F., Boundbrook, N. J., assignor to The Glysyn Corporation, New York, N. Y. Producing olefins. No. 1,393,249; Oct. 11.
- Saunders, Mary E., Philadelphia, Pa. Load-binder for vehicles. No. 1,375,183; Apr. 19; v. 285; p. 452.
- Saunders, William M., Waterbury, Conn., assignor to The Hoge Manufacturing Company, New York, N. Y. Propencil. No. 1,380,743; June 7; v. 287; p. 80.
- Saundry, Edward, New Haven, Conn. Skate. No. 1,367,328; Feb. 1; v. 283; p. 89.
- Saurer, firm of Adolph. (See Mayer, H., Schlatter, and Baltensweiler, assignors.)
- Sauset, Peter, Bonn, Germany. Machine for cleaning builders' planks from cement. No. 1,390,218; Sept. 6; v. 290; p. 182.
- Sauter, Andrew, Detroit, Mich. Vehicle-cab. No. 1,378,726; May 17; v. 286; p. 558.
- Sauter, Alfred and L., Chicago, Ill. Printer's quoin. No. 1,395,149; Oct. 25.
- Sauter, Fritz, Basel, Switzerland. Motor-driven quick-action electric switch. No. 1,378,283; May 17; v. 286; p. 473.
- Sauter, Fritz, Basel, Switzerland. Electric winding device. No. 1,384,352; July 12; v. 288; p. 276.
- Sauter, Leo. (See Sauter, Alfred and L.)
- Sautler, George H., Chicago, Ill. Automatic release-valve. No. 1,369,052; Feb. 22; v. 283; p. 568.
- Sauvage, Herbert J., Chicago, Ill. Radiator-shield for motor-vehicles. No. 1,400,184; Dec. 13.
- Sauvage, Herbert J., assignor to A. D. Shoup Company, Chicago, Ill. Box-making machine. No. 1,376,361; Apr. 26; v. 285; p. 709.
- Sauvage, Herbert J. (See Evers, A. J., and Sauvage.)
- Sauve, Patrick, Flint, Mich. Drill or tap holder. No. 1,394,795; Oct. 25.
- Sauze, Eugene, St. Etienne, France. Artificial leg. No. 1,376,292; Apr. 26; v. 285; p. 696.
- Savage Arms Corporation. (See Nelson, Charles A., assignor.)
- Savage, Arthur J., San Diego, Calif. Vulcanizer. No. 1,389,588; Sept. 6; v. 290; p. 8.
- Savage, Edwin H. (See Morgan, M. B., and Savage.)
- Savage & Love Company, The. (See Milne, Robert, assignor.)
- Savage, Stanley W. (See Hindle, A. H., Savage, Dobbs, and Liddle.)
- Savage, Stanley. (See Robertson, W. D., and Savage.)
- Savage Tire Company, The. (See Morris, Howard L., assignor.)
- Savage, Wallace, New York, N. Y. Deliming hides. No. 1,382,124; June 21; v. 287; p. 452.
- Savastano, Antonio, Brooklyn, N. Y. Clasp for pocket-books. No. 1,368,058; Feb. 8; v. 283; p. 287.
- Savastano, Samuel, Providence, R. I. Artificial leg. No. 1,366,027; Jan. 18; v. 282; p. 467.
- Savès, Paul, Toulouse, France. Granulating calcium cyanamid. No. 1,399,660; Dec. 6.
- Save-A-Room Furniture Manufacturing Company. (See Freeman, John, assignor.)
- Savidge, S. L. (See Ford, Claud J., assignor.)
- Savino, Camillo, New York, N. Y. Motor. No. 1,375,018; Apr. 19; v. 285; p. 420.
- Savy, Emile, Paris, France. Machine for cooling chocolate and other materials. No. 1,375,734; Apr. 26; v. 285; p. 589.
- Savy, Emile, Paris, France. Drying apparatus. No. 1,381,436; June 14; v. 287; p. 263.
- Sawa, Josef. (See Gepack, Paul, assignor.)
- Sawin, Frank O., Sheridan, Wyo. Gate. No. 1,368,844; Feb. 15; v. 283; p. 489.
- Sawtell, Albert H., Providence, R. I. Electrical stopping device. No. 1,372,556; Mar. 22; v. 284; p. 701.
- Sawtell, Albert H., Providence, R. I. Ball-governor. No. 1,372,557; Mar. 22; v. 284; p. 701.
- Sawtelle, Edmund M., Englewood, N. J., assignor to J. P. Carter, Greenwich, Conn., and R. L. Squibb, Lawrenceburg, Ind. Wood distillation. No. 1,374,887; Apr. 12; v. 285; p. 333.
- Sawtelle, Edward J., Berwick, Me. Razor-hone. No. 1,389,534; Aug. 30; v. 289; p. 943.
- Sawyer, Charles A., *et al.* (See Torrey, Charles L., assignor.)
- Sawyer, Charles A., Jr., Newton, Mass. Sole-cutting machine. No. 1,368,225; Feb. 8; v. 283; p. 320.
- Sawyer, Charles A., Jr., Newton, Mass. Leather-working machine. No. 1,375,935; Apr. 26; v. 285; p. 628.
- Sawyer, Charles A., Jr., Newton, Mass. Sole-blank-cutting machine with adjustable knives. No. 1,378,138; May 17; v. 286; p. 446.
- Sawyer, Charles A., Jr., Newton, Mass. Leather-cutting machine. No. 1,379,420; May 24; v. 286; p. 762.
- Sawyer, Frank M., Los Angeles, Calif. Wall construction. No. 1,378,139; May 17; v. 286; p. 446.
- Sawyer, Frank M., Los Angeles, Calif. Floor construction. No. 1,397,147; Nov. 15.
- Sawyer, Harry, assignor to Shaw Electric Crane Company, Muskegan, Mich. Hoisting apparatus. No. 1,395,735; Nov. 1.
- Sawyer, Harvey C., St. Paul, Minn. Railway-track. No. 1,399,802; Dec. 13.
- Sawyer, Houghton, Piedmont, Calif. Bed structure for automobiles. No. 1,370,672; Mar. 8; v. 284; p. 219.
- Sawyer, John G., Portland, Me. Trotting-harness. No. 1,366,497; Jan. 25; v. 282; p. 602.
- Sawyer, John H., Gilmerton, Va. Heater. No. 1,372,198; Mar. 22; v. 284; p. 632.
- Sawyer, William D. (See Carrie, James, assignor.)
- Sawyer, Walter H., Philadelphia, assignor to A. C. Boyd, Lansdowne, Pa. Sales-check holder and notcher. No. 1,379,217; May 24; v. 286; p. 724.
- Sawyer, Walter H., Philadelphia, and A. C. Boyd, Lansdowne, Pa. Check holder and notcher. No. 1,395,736; Nov. 1.
- Sawyer, Walter H., assignor to H. R. Keene, Philadelphia, Pa. Sales-check holder and notcher therefor. No. 1,399,887; Dec. 13.
- Sawyer-Weber Tool Manufacturing Company. (See Weber, Alexander, assignor.)
- Sawyer, William F. *et al.* (See Krause, Norman R., assignor.)
- Sax, George F. (See Nitsch, Frederick L., assignor.)
- Saxl, Henry, Cave Dale, Calif. Adjustable extension-rake. No. 1,372,558; Mar. 22; v. 284; p. 701.
- Saxon, T. H. (See Hood, James J., assignor.)
- Saxon, Herman R., and C. J. Schwarze, assignors of one-half to The Schwarze Electric Company, Adrian, Mich., and one-half to Willys Corporation, Toledo, Ohio. Horn. No. 1,386,804; Aug. 9; v. 289; p. 238.
- Saxon, Augustus C., and H. J. Menard, assignors to H. R. Manufacturing Company, Chicago, Ill. Lock for controlling levers. No. 1,394,359; Oct. 18.
- Saxon, Samuel S., Chicago, Ill. Road and rail wheel. No. 1,372,910; Mar. 29; v. 284; p. 813.
- Saxon, Thomas W., Barham, England. Means for indicating direction applicable for use with aircraft such as aeroplanes. No. 1,393,318; Oct. 11.
- Saxon, Thomas G., New York, N. Y. Piston-ring. No. 1,399,581; Dec. 6.
- Sayle, James, Brooklyn, N. Y. Amusement device. No. 1,399,582; Dec. 6.
- Sayles Finishing Plants. (See Flick, Lorenz, assignor.)
- Sayles Finishing Plants, Inc. (See Huey, Harold I., assignor.)
- Saylor, Albert L. (See Randleman, Harry R., assignor.)
- Saylor, Henry D. (See Kepler, George G., assignor.)
- Sayo, Kotaro, San Francisco, Calif. Roll-film-turning device. No. 1,375,324; Apr. 19; v. 286; p. 479.
- Sayre, George, Orleans, Ind. Table. No. 1,394,222; Oct. 18.
- Sayre, Charles E., Pittsburgh, Pa. Valve mechanism. No. 1,389,104; Aug. 30; v. 289; p. 858.
- Sayre, Ralph E. (See Perkins, C. L., and Sayre.)
- Sayre, Ralph E., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,370,366; Mar. 1; v. 284; p. 116.
- Sayre, Ralph E., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,370,367; Mar. 1; v. 284; p. 116.
- Sayre, Ralph E., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,370,843; Mar. 8; v. 284; p. 252.
- Sayre, Ralph E., Pittsburgh, Pa., assignor to Metals Recovery Company, New York, N. Y. Flotation of minerals. No. 1,378,562; May 17; v. 286; p. 526.
- Scaife, Joseph D., Newark-on-Trent, England. Chuck and like work-holder. No. 1,389,272; Aug. 30; v. 289; p. 891.
- Scales, John R., Indianapolis, and L. M. Wilson, Bloomington, Ind. Dispensing apparatus. No. 1,400,770; Dec. 20.
- Scalfaro, Frank A., and J. A. McLeod, Chicago, Ill. Electric cloth-cutter. No. 1,395,150; Oct. 25.
- Scanes, Arthur E. L., Ashton-on-Mersey, England, assignor to Westinghouse Electric & Manufacturing Company, Condenser. No. 1,382,676; June 28; v. 287; p. 612.



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- Scanes, Arthur E. L. (See Baumann, K., and Scanes.)  
 Scanlan, Anna, New York, N. Y. Mattress. No. 1,381,751; June 14; v. 287; p. 323.  
 Scanlan, George H., New York, N. Y. Hitch for tractors. No. 1,366,216; Jan. 18; v. 282; p. 504.  
 Scanlan, George H., New York, N. Y. Tractor-engine. No. 1,370,844; Mar. 8; v. 284; p. 252.  
 Scanlan, George H., New York, N. Y. Traction-wheel. No. 1,389,460; Aug. 30; v. 289; p. 929.  
 Scanlan, Patrick M., Brooklyn, N. Y. Air-pump. No. 1,385,497; July 26; v. 288; p. 669.  
 Scarab Oil Burning Company, Limited, The. (See Bowden-Smith, Edward C., assignor.)  
 Scarborough, John H., assignor to D. Weber, Philadelphia, Pa. Slotting-machine. No. 1,398,202; Nov. 22.  
 Scarcello, Ralph, Los Angeles, Calif. Turn and inseam shoe sewing machine attachment. No. 1,368,845; Feb. 15; v. 283; p. 489.  
 Scarff, Frederick W., North Kensington, assignor to Vickers Limited, Westminster, London, England. Machine-gun mounting. No. 1,364,626; Jan. 4; v. 282; p. 93.  
 Scarff, Alfred M., Croydon, England. Surgical truss. No. 1,393,722; Oct. 11.  
 Scarsdale, Earl B., Dayton, Ohio. Babbitting device. No. 1,400,994; Dec. 20.  
 Scartsaris, James P., Jamestown, N. Y. Automatic railway-switch-operating mechanism. No. 1,371,937; Mar. 15; v. 284; p. 526.  
 Scavini, Enrico, Turin, Italy. Manufacturing heads of puppets, dolls, and like articles. No. 1,389,905; Sept. 6; v. 290; p. 70.  
 Schaad, Arthur G., Detroit, Mich. Process and machine for forming cutters. No. 1,399,525; Dec. 6.  
 Schaae, Henry, Vancouver, British Columbia, Canada. Track-sheave. No. 1,370,561; Mar. 8; v. 284; p. 198.  
 Schaae, Henry, Vancouver, British Columbia, Canada. Shingle-machine table. No. 1,389,321; Aug. 30; v. 289; p. 901.  
 Schaae, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-conductor device. No. 1,370,050; Mar. 1; v. 284; p. 56.  
 Schaae, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Device for trolley-conductors. No. 1,374,528; Apr. 12; v. 285; p. 264.  
 Schaae, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Pantograph-trolley. No. 1,400,101; Dec. 13.  
 Schaae, William, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley-hanger. No. 1,401,650; Dec. 27.  
 Schaap, Alexander K., New York, N. Y. Piston-ring. No. 1,381,688; June 14; v. 287; p. 307.  
 Schaar & Company. (See Pestel, William M., assignor.)  
 Schabacker, Henry E., Thorold, Ontario, Canada, assignor to The Exolon Company, Boston, Mass. Silicon carbide and making same. No. 1,381,346; June 14; v. 287; p. 246.  
 Schacht, Louis L., New York, N. Y. Flashlight-torch. No. 1,389,702; Sept. 6; v. 290; p. 28.  
 Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,369,131; Feb. 22; v. 283; p. 583.  
 Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,386,428; Aug. 2; v. 289; p. 91.  
 Schadee, Alice, *et al.* (See Schadee, Gustav, assignor.) (Reissue.)  
 Schadee, Alice, *et al.* (See Gallagher, G. S., and Schadee, assignors.) (Reissue.)  
 Schadee, Gustav. (See Gallagher, G. S., and Schadee.) (Reissue.)  
 Schadee, Gustav, New York, N. Y. Valve-grinder. No. 1,382,934; June 28; v. 287; p. 660.  
 Schadee, Gustav, assignor, by mesne assignments, of two-thirds to E. G. Gallagher and one-third to A. Schadee, New York, N. Y. Vehicle-wheel. (Reissue.) No. 1,517,171; Aug. 2; v. 289; p. 123.  
 Schaefer, Alexander L., Bolton, Ontario, Canada. Water-heating device for oil-stoves. No. 1,381,595; June 14; v. 287; p. 293.  
 Schaefer, Fred S., South St. Paul, Minn. Hoisting apparatus. No. 1,397,057; Nov. 15.  
 Schaefer, Frederic. (See Kern, William A., assignor.)  
 Schaefer, Frederic, Pittsburgh, Pa. Brake-lever. No. 1,368,759; Feb. 15; v. 283; p. 472.  
 Schaefer, Clemens T., assignor to Arvac Manufacturing Company, Anderson, Ind. Universal joints. No. 1,386,735; Aug. 9; v. 289; p. 224.  
 Schaefer, Frank M., Chicago, Ill. Peeling-machine. No. 1,378,058; May 17; v. 286; p. 430.  
 Schaefer, Frank M., Chicago, Ill., assignor to J. Lynn, Wabash, Ind. Eraser-cleaner. No. 1,399,888; Dec. 13.  
 Schaefer, George, Russell, Kans. Grain-gathering mechanism. No. 1,370,919; Mar. 8; v. 284; p. 266.  
 Schaefer, George H. T. (See Aimes, W. R., and Schaefer.)  
 Schaefer, Heinrich, Brooklyn, N. Y. Steam cooking utensil. No. 1,371,520; Mar. 15; v. 284; p. 446.  
 Schaefer, Henry H., Weldona, Colo. Wire tightener and splicer. No. 1,400,995; Dec. 20.  
 Schaefer, Joseph P., Mayfield, Calif. Oil-burner. No. 1,364,816; Jan. 4; v. 282; p. 148.  
 Schaefer, Leo J., Toledo, Ohio. Rubber heel. No. 1,383,155; June 28; v. 287; p. 703.  
 Schaefer, Peter A., Greensburg, Pa. Spark-intensifier. No. 1,395,737; Nov. 1.  
 Schaefer, Peter C., Denver, Colo. Fastening device for auto porch-beds. No. 1,395,151; Oct. 25.  
 Schaefer, William H., New York, N. Y. Inhaler. No. 1,375,325; Apr. 19; v. 285; p. 479.  
 Schaeffer, Frank C. (See Tirado, Alfred T., assignor.)  
 Schaefer, Otto, Basel, Switzerland. Gear-slotting machine. No. 1,392,226; Sept. 27; v. 290; p. 765.  
 Scharf, Joseph C., Jr., and W. J. Holliday, Indianapolis, Ind. Test-stand for testing generators. No. 1,397,296; Nov. 15.  
 Scharf, Joseph C., Jr., and W. J. Holliday, Indianapolis, Ind. Test stand for testing starting-motors. No. 1,401,740; Dec. 27.  
 Schäfer, Béla B., Baden, assignor to Gleichrichter-Aktiengesellschaft, Glarus, Switzerland. Apparatus for protecting metal-vapor rectifiers. No. 1,367,098; Feb. 1; v. 283; p. 43.  
 Schäfer, Béla B., Baden, assignor to Gleichrichter-Aktiengesellschaft, Glarus, Switzerland. Metal vapor-rectifier. No. 1,369,984; Mar. 1; v. 284; p. 44.  
 Schäfer, Béla B., Baden, assignor to Gleichrichter-Aktiengesellschaft, Glarus, Switzerland. Apparatus for measuring the vacuum in large rectifiers. No. 1,377,282; May 10; v. 286; p. 228.  
 Schäfer, Béla B., Baden, assignor to Gleichrichter-Aktiengesellschaft, Glarus, Switzerland. Automatic-starting apparatus for metal-vapor rectifiers. No. 1,381,077; June 7; v. 287; p. 145.  
 Schäfer, Max, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Magneto-electric sparking apparatus. No. 1,399,803; Dec. 13.  
 Schäfer, Max, Stuttgart, and A. Kraus, Cannstatt, assignors to Firm of Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Short-circuiting device for electrical ignition apparatus. No. 1,401,367; Dec. 27.  
 Schäfer, Robert, Erfurt, Germany. Device for operating the jaws of spanners and the like. No. 1,382,247; June 21; v. 287; p. 475.  
 Schäfer, Robert, Erfurt, Germany. Adjustable spanner. No. 1,382,248; June 21; v. 287; p. 475.  
 Schafer, Daniel W. (See McKissick, William H., assignor.)  
 Schafer, Edward A., Wheeling, W. Va. Bolt and retainer therefor. No. 1,395,526; Nov. 1.  
 Schafer, John P. (See Wilson, R. H., and Schafer.)  
 Schafer, Louis, St. Louis, Mo. Burial-receptacle. No. 1,373,915; Apr. 5; v. 285; p. 105.  
 Schaff, Michael, Ryegate, Mont. Cattle-guard. No. 1,384,860; July 19; v. 288; p. 463.  
 Schaffer, August, Columbus, Ohio. Stove. No. 1,380,842; June 7; v. 287; p. 99.  
 Schaffer, Charles W., Jr. (See Fow, Raymond S. C., assignor.)  
 Schaffer, Friedrich, Leobersdorf, near Vienna, Austria. Making railway disk wheels. No. 1,391,907; Sept. 27; v. 290; p. 700.  
 Schaffer, Henry J., assignor to J. Schaffer, Brooklyn, N. Y. Ash-sifter. No. 1,378,623; May 17; v. 286; p. 538.  
 Schaffer, Jacob. (See Schaffer, Henry J., assignor.)  
 Schaffer, John C. (See Crow, W., and Schaffer.)  
 Schaffer, John C., Tiffin, Ohio. Lime-burning. No. 1,377,367; May 10; v. 286; p. 246.  
 Schaffer, John C., Tiffin, Ohio. Packaging mechanism. No. 1,385,498; July 26; v. 288; p. 669.  
 Schaffer, Martin R., Reading, Pa. Crank-shaft balance. No. 1,383,488; July 5; v. 288; p. 48.  
 Schaffernocker, Harry C., Leetonia, Ohio. Cable-clamp. No. 1,369,842; Mar. 1; v. 284; p. 17.  
 Schaffner, Joseph F. C., Paris, France. Device for securing hoops on casks, barrels, tubs, and other receptacles. No. 1,386,430; Aug. 2; v. 289; p. 92.  
 Schairer, Otto S., Oakmont, Pa., assignor to Westinghouse Electric and Manufacturing Company. Starting mechanism for automobiles. No. 1,370,051; Mar. 1; v. 284; p. 56.  
 Schairer, Otto S., Oakmont, and W. R. Coley, Edgewood, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. No. 1,382,935; June 28; v. 287; p. 661.  
 Schakel, Jacob D., assignor to Elevator Company of America, Chicago, Ill. Self-oiling bearing for elevator-machines. No. 1,373,570; Apr. 5; v. 285; p. 37.  
 Schaller, Carl, assignor to Grimme, Natalis & Co., Commanditgesellschaft Auf Actien, Brunswick, Germany. Calculating-machine. No. 1,400,003; Dec. 13.  
 Schaller, Carl, assignor to Grimme, Natalis & Co., Commanditgesellschaft Auf Actien, Brunswick, Germany. Calculating-machine. No. 1,400,004; Dec. 13.  
 Schaller, Ellsie, *et al.* (See Schaller, William F., assignor.)  
 Schaller, Irma H., *et al.* (See Schaller, William F., assignor.)  
 Schaller, Leon T., Irvington, N. J. Dirigible automatic headlight. No. 1,386,957; Aug. 9; v. 289; p. 269.



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- Schaller, Otto, Südende, near Berlin, assignor to Firm: Julius Pintsch Akt.-Ges., Berlin, Germany. Holder for the glowers of tungsten lamps. No. 1,400,005; Dec. 13.
- Schaller, William F., assignor of one-third to E. Schaller and one-third to I. H. Schaller, San Francisco, Calif. Drier. No. 1,373,767; Apr. 5; v. 285; p. 75.
- Schaller, William F., San Francisco, Calif. Processing-machine for fruits and vegetables. No. 1,381,347; June 14; v. 287; p. 246.
- Schaller, William F., San Francisco, Calif. Fish-curing machine. No. 1,385,927; July 26; v. 288; p. 756.
- Schaller, William F., San Francisco, Calif. Doughnut forming and cooking machine. No. 1,391,212; Sept. 20; v. 290; p. 487.
- Schalow, August H. (See Schalow, Frank J., assignor.)
- Schalow, Frank J., assignor of one-half to A. H. Schalow, East New York, N. Y. Hat-crown-crease-retaining device. No. 1,387,015; Aug. 9; v. 289; p. 281.
- Schamberg, Jay F., G. W. Raiziss, and J. A. Kolmer, assignors to Dermatological Research Laboratories, Philadelphia, Pa. Oxy-mercury nitrophenolate. No. 1,390,972; Sept. 13; v. 290; p. 376.
- Schanberger, Marguerite G., et al. (See Gallagher, George D., assignor.) (Reissue.)
- Schanck, Charles E. (See Flitcroft, James E., assignor.)
- Schang, Frederick, New York, assignor to The Lorscheider-Schang Co., Inc., Rochester, N. Y. Receptacle or container. No. 1,388,206; Aug. 23; v. 289; p. 625.
- Schank, Harry E., assignor to The Pierson Manufacturing Company, Topeka, Kans. Engine-base mounting. No. 1,371,325; Mar. 15; v. 284; p. 407.
- Schank, Harry E., assignor to The Pierson Manufacturing Company, Topeka, Kans. Engine-mounting. No. 1,391,697; Sept. 27; v. 290; p. 658.
- Schantz, Carl, Freiburg, Germany. Manufacture of bichlorid of mercury. No. 1,373,357; Mar. 29; v. 284; p. 901.
- Schanze, Gustavus A. (See Withan, George S., assignor.)
- Schaper, Henry C., assignor to The General Automatic Scale Company, St. Louis, Mo. Weight-indicator for scales. No. 1,385,718; July 26; v. 288; p. 715.
- Schapiro, Aisik, Berlin, Germany. Duplicating process. No. 1,400,771; Dec. 20.
- Scharf, Bernard H., New York, N. Y. Store-sign. No. 1,369,550; Feb. 22; v. 283; p. 664.
- Scharfhausen, William, Spencer, Idaho. Stove-lid. No. 1,375,978; Apr. 26; v. 285; p. 636.
- Scharl John, New York, N. Y., assignor to General Ceramics Company, Jersey City, N. J. Producing articles of quartz glass. No. 1,368,990; Feb. 15; v. 283; p. 515.
- Scharl, John, New York, N. Y., assignor to General Ceramics Company, Jersey City, N. J. Making articles of quartz glass. No. 1,375,657; Apr. 19; v. 285; p. 542.
- Scharlau, Paul. (See Brown, Enoch S., assignor.)
- Scharnagel, Herman J., Tompkinsville, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Fluid-current motor. No. 1,401,651; Dec. 27.
- Schröer, Arnold, New York, N. Y. Hair-waver. No. 1,395,774; Nov. 1.
- Schat, Ane P., San Francisco, Calif. Adjustable inclined davit. No. 1,369,132; Feb. 22; v. 283; p. 584.
- Schat, Ane P., Utrecht, Netherlands. Automatic davit. No. 1,369,133; Feb. 22; v. 283; p. 584.
- Schat, Ane P., Utrecht, Netherlands. Collapsible lifeboat-chock. No. 1,373,768; Apr. 5; v. 285; p. 75.
- Schatte, Charles, New York, N. Y., assignor to Schatte Manufacturing Co., Inc., Lansdale, Pa. Brush. No. 1,388,127; Aug. 16; v. 289; p. 553.
- Schatte Manufacturing Co. (See Schatte, Charles, assignor.)
- Schattle, Edward G., Auburn, N. Y. Cluster lamp-socket. No. 1,385,844; July 26; v. 288; p. 740.
- Schatz, Herman W. (See Robinson, A. E., and Schatz.)
- Schatz, Herman W., Norwood, Ohio. Electric driving means for drilling machinery. No. 1,379,782; May 31; v. 286; p. 904.
- Schaub, Hans, and C. Künzli, Zurich, Switzerland. Electric signaling apparatus for cars on electric and other railways. No. 1,381,020; June 7; v. 287; p. 134.
- Schaub, James A., et al. (See Dungan, John E., assignor.)
- Schaub, Jacob, Newark, N. J., assignor to The Therox Company, New York, N. Y. Filling-machine. No. 1,397,184; Nov. 15.
- Schaub, Rudolph G., Woodbury, N. J. Folding seat. No. 1,387,315; Aug. 9; v. 289; p. 340.
- Schauer, Ferdinand F., Brooklyn, N. Y. Baseball game. No. 1,384,095; July 12; v. 288; p. 222.
- Schauff, Charles, Oak Grove, Oreg. Theodolite. No. 1,366,498; Jan. 25; v. 282; p. 603.
- Schauman, Karl O., San Francisco, Calif. Bumper-actuated vehicle-control mechanism. No. 1,398,399; Nov. 29.
- Schaumburger, Louis. (See Clark, H. H., and Schaumburger.)
- Schaumleffel, Harry J., Marion, Ind. Vibrator. No. 1,397,058; Nov. 15.
- Schawrow, Rappel, Bayonne, N. J. Liquid-fuel burner. No. 1,384,781; July 19; v. 288; p. 446.
- Scheanblum, Grace. (See Scheanblum, Robert and G.)
- Scheanblum, Robert, and G., Danbury, Conn. Hair foundation. No. 1,365,548; Jan. 11; v. 282; p. 334.
- Scheanblum, Robert and G., Danbury, Conn. Combined hair foundation and switch-attaching device. No. 1,365,549; Jan. 11; v. 282; p. 334.
- Schechter, Benjamin, St. Louis, Mo. Window-frame. No. 1,366,679; Jan. 25; v. 282; p. 639.
- Schechter, Bernard, assignor to American Car Company, St. Louis, Mo. Car-seat. No. 1,385,279; July 19; v. 288; p. 548.
- Schechter, Bernard, St. Louis, Mo. Slack-adjuster. No. 1,395,738; Nov. 1.
- Schechter, Joseph, Brooklyn, N. Y. Lock mechanism. No. 1,393,835; Oct. 18.
- Schedler, Carl W., Jr., Berkeley, Calif. Chlorin composition. No. 1,367,431; Feb. 1; v. 283; p. 109.
- Scheel, Rudolph, Dixon, Calif. Resilient wheel. No. 1,391,278; Sept. 20; v. 290; p. 501.
- Scheele, Walter T., Hackensack, N. J., assignor to H. M. Specht, New York, N. Y. Cellulose composition. No. 1,379,699; May 31; v. 286; p. 389.
- Scheele, Walter T., Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Incendiary mixture. No. 1,382,804; June 28; v. 287; p. 636.
- Scheele, Walter T., Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Incendiary mixture. No. 1,382,805; June 28; v. 287; p. 636.
- Scheele, Walter T., Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Incendiary mixture. No. 1,382,806; June 28; v. 287; p. 636.
- Scheele, Walter T., Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Incendiary mixture. No. 1,382,807; June 28; v. 287; p. 637.
- Scheele, Walter T., Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Protective mixture for high explosives. No. 1,391,796; Sept. 27; v. 290; p. 678.
- Scheer, George F., assignor to Scheer Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle. No. 1,386,805; Aug. 9; v. 289; p. 239.
- Scheer Manufacturing Company. (See Scheer, George F., assignor.)
- Schefer, Ernest, Santa Rosa, Calif. Automatic control for windmills. No. 1,366,326; Jan. 18; v. 282; p. 525.
- Scheffer, Carl F., Dayton, Ohio. Sectional apparatus for generating ammonia-gas for dry-cleaning machines. No. 1,367,718; Feb. 8; v. 283; p. 223.
- Scheibe, Ludwig, Krüpa, Kr. Ziegenrück, Germany. Folding chair. No. 1,388,146; Aug. 16; v. 289; p. 556.
- Schebe, Ralph R., Somerville, Mass. Step-bearing. No. 1,385,400; July 26; v. 288; p. 649.
- Scheibler, August, Altstätten, Zurich, Switzerland, assignor of three-fourths to F. H. Stasny, New York, and one-fourth to E. R. Hoffman, Albany, N. Y. Internal-combustion engine. No. 1,372,559; Mar. 22; v. 284; p. 701.
- Scheiding, Henry. (See Kennedy, F. J., and Scheiding.)
- Schein, Albert N., assignor to L. Levinson, Philadelphia, Pa. Furniture-polish. No. 1,396,346; Nov. 8.
- Scheiner, Karl P. (See Beeh, Louis, assignor.)
- Scheiwer, Albert T. (See Ferguson, D., and Schelwer.)
- Scheiwer, Albert T., and D. Ferguson, Erie, Pa. Shears-grinder. No. 1,390,726; Sept. 13; v. 290; p. 326.
- Schelhammer, Herman, Whitestone Landing, assignor to American Hard Rubber Co., New York, N. Y. Manufacture of hard-rubber battery-jars and similar articles. No. 1,400,913; Dec. 20.
- Schell, Dayton I., Jackson, Mich. Clothesline-pole. No. 1,374,609; Apr. 12; v. 285; p. 279.
- Schell, Walter S., et al. (See Bentz, John A., assignor.)
- Schell, William A. (See Burch, W. S., and Schell.)
- Schellhamer, Elmer E., assignor of one-fourth to A. P. Hafer, Reading, Pa. Heating system. No. 1,400,831; Dec. 20.
- Schellnack, Ferdinand W., et al. (See Flude, Daniel J., assignor.)
- Schelter, George G., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last. No. 1,372,779; Mar. 29; v. 284; p. 785.
- Schelter, John C., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Shoe form. No. 1,399,804; Dec. 13.
- Scheminger, John, Jr. (See Woodbury, Homer C., assignor.)
- Scheminger, John, Jr., Providence, R. I. Composite spray-plate. No. 1,383,862; July 5; v. 288; p. 125.
- Schenck, Daniel W., Kansas City, Kans. Broom. No. 1,385,152; July 19; v. 288; p. 524.
- Schenck, John E., assignor to American Can Company, New York, N. Y. Sanitary can end and preparing same. No. 1,373,025; Mar. 29; v. 284; p. 835.
- Schenck, Pierce D., Dayton, Ohio, assignor to The Durlon Company, Inc. Heat resisting iron. No. 1,398,917; Nov. 29.
- Schenck, Pierce D., Dayton, Ohio, assignor to The Durlon Company. Acid-resisting iron. No. 1,398,918; Nov. 29.
- Schenck, Samuel B. (See Clarke, J. A., Jr., and Schenck.)
- Schenk, Edouard, Geneva, Switzerland. Safety-pin. No. 1,397,236; Nov. 15.



## Alphabetical list of patentees—Continued.

- Schenk, Edouard, Geneva, Switzerland. Manually-operated safety coupling device. No. 1,397,237; Nov. 15.
- Schenk, Ella M. (See Schenk, John M., assignor.)
- Schenk, Ella M., administratrix. (See Schenk, John M.)
- Schenk, John C., Chicago, Ill. Tire-lock. No. 1,386,367; Aug. 2; v. 289; p. 79.
- Schenk, John M., deceased; E. M. Schenk, administratrix, assignor to E. M. Schenk, Waterloo, Iowa. Concrete burial-vault. No. 1,369,985; Mar. 1; v. 284; p. 44.
- Schenk, John M., deceased; E. M. Schenk, administratrix, assignor to E. M. Schenk, Waterloo, Iowa. Concrete lintel. No. 1,370,160; Mar. 1; v. 284; p. 77.
- Schenk, John M., deceased, by E. M. Schenk, administratrix, assignor to E. M. Schenk, Waterloo, Iowa. Concrete building-block. No. 1,374,955; Apr. 19; v. 285; p. 408.
- Schenk, John M., deceased, by E. M. Schenk, administratrix, assignor to E. M. Schenk, Waterloo, Iowa. Machine for forming concrete blocks. No. 1,380,598; June 7; v. 287; p. 52.
- Schenk, Nicholas, St. Louis, Mo. Demountable wheel-rim. No. 1,386,368; Aug. 2; v. 289; p. 80.
- Schenk, Tamis C., Amsterdam, Netherlands. Clamp for angular and cross connections of beams. No. 1,382,249; June 21; v. 287; p. 476.
- Schenke, Max E., assignor to Newburgh Metal Works, Inc., Newburgh, N. Y. Insect-exterminator. No. 1,372,780; Mar. 29; v. 284; p. 786.
- Schenkelberger, Albert F. (See Currier, A. E., and Schenkelberger.)
- Schenkel, Gottfried, Winterthur, Switzerland. Adjusting device for aeroplanes. No. 1,365,846; Jan. 11; v. 282; p. 294.
- Schenkel, Moritz, Charlottenburg, near Berlin, Germany, assignor to Siemens Schuckertwerke, G. m. b. H., Berlin, Germany. System of transforming direct current into alternating current. No. 1,390,727; Sept. 13; v. 290; p. 326.
- Schenker, Abraham W., Brooklyn, N. Y. Cock. No. 1,384,159; July 12; v. 288; p. 236.
- Schenker, George, et al. (See Krastin, August, assignor.)
- Schenker, Irving, and M. Wiland, Ellenville, N. Y. Fountain clothes-washer. No. 1,372,980; Mar. 29; v. 284; p. 827.
- Schenker, Irving, Ellenville, N. Y. Clothesline-protector. No. 1,380,843; June 7; v. 287; p. 100.
- Schennitt, Frank G., Baltimore, Md. Tire-tread. No. 1,377,283; May 10; v. 286; p. 229.
- Scher, Louis S., New York, N. Y. Telephone-muffler. No. 1,399,083; Dec. 6.
- Scherer, Adolph, Philadelphia, Pa. Lamp-shade. No. 1,398,305; Nov. 29.
- Scherer, Albert G., assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Combined hot-air and cold-air register. No. 1,381,348; June 14; v. 287; p. 247.
- Scherer, Benoit, La Garenne-Colombes, France. Sparking plug with self-cleaning electrode. No. 1,388,766; Aug. 23; v. 289; p. 736.
- Scherer, Clarence, Center, N. D. Lapping-tool. No. 1,382,552; June 21; v. 287; p. 534.
- Scherfer, Jacob, assignor to W. H. Rogers Company, Chicago, Ill. Manufacturing ladies' ready-to-wear clothing. No. 1,398,117; Nov. 22.
- Scherer, Joseph, et al. (See Werts, William D., assignor.)
- Scherfree, Mary A. (See Block, Benjamin B., assignor.)
- Scheril, Henry, Newark, N. J., assignor to U. E. Corporation, New York, N. Y. Refillable fuse-plug. No. 1,372,981; Mar. 29; v. 284; p. 827.
- Schermack Corporation, The. (See Schermack, Joseph J., assignor.)
- Schermack, Joseph J., assignor to The Schermack Corporation, Detroit, Mich. Stamp-vending machine. No. 1,399,889; Dec. 13.
- Schermer, Friedrich, Mainz, Germany. Machine for cutting bacon and the like into thin slices. No. 1,384,732; July 12; v. 288; p. 355.
- Schermerhorn, Edwards F., Brooklyn, and W. P. Thomson, assignors to The Rail Joint Company, New York, N. Y. Insulating end post. No. 1,376,647; May 3; v. 286; p. 50.
- Schermerhorn, John L., assignor to American Transformer Company, Newark, N. J. Electric controlling apparatus. No. 1,399,084; Dec. 6.
- Schermuly, Augustus W. L., Sutton, England. Pulley. No. 1,393,723; Oct. 11.
- Scherner, John, and E. Hutchens, Milwaukee, Wis., assignors to Pierce Wrapping Machine Company, Chicago, Ill. Wrapping-machine. No. 1,387,016; Aug. 9; v. 289; p. 281.
- Scherr, Emilius W., Jr., New York, N. Y., assignor to The Aeolian Company. Automatic musical instrument and music-sheet. No. 1,372,560; Mar. 22; v. 284; p. 702.
- Scherzer, Albert H., deceased, Chicago, Ill.; A. G. Zimmerman and D. G. Scherzer. Bascule-bridge. No. 1,370,999; Mar. 8; v. 284; p. 281.
- Scherzer, Donna G., et al., executors. (See Scherzer, Albert H.)
- Schesvold, George T., et al. (See Nelson, Joyce C., assignor.)
- Schetzl, Marx P., Oakland, Calif. Propeller-pump. No. 1,401,193; Dec. 27.
- Scheu, John H., New York, N. Y. Clothes-hanger. No. 1,379,700; May 31; v. 286; p. 889.
- Scheuer, Elmer. (See Stratford, H. R., and Scheuer.)
- Scheurer, Alexander, Kansas City, Mo. Well-cleaner. No. 1,400,996; Dec. 20.
- Scheurer, Robert C., West Hoboken, and F. G. Greenberg, Union Hill, N. J. Attachment for cycloramic-scenery battens. No. 1,375,538; Apr. 19; v. 285; p. 520.
- Scheuerle, Henry A., deceased; M. E. Scheuerle, executrix, Philadelphia, Pa. Making bifocal lenses. No. 1,383,863; July 5; v. 288; p. 126.
- Scheuerle, Marie E., executrix. (See Scheuerle, Henry A.)
- Scheve, Frets C., Sumner, assignor of forty-five one-hundredths to C. P. Bettenga, Waterloo, and five one-hundredths to F. W. Bathke, Sumner, Iowa. Apparatus for preparing and discharging feed. No. 1,383,489; July 5; v. 288; p. 48.
- Schevitz, Carl, Jacksonville, Fla. Expansible shoe-last. No. 1,379,478; May 24; v. 286; p. 772.
- Scheyer, Emanuel, New York, N. Y. Automatic lathe. No. 1,381,752; June 14; v. 287; p. 323.
- Schiano, Michael, Auburn, Victoria, Australia. Combination opening device for bottles. No. 1,367,432; Feb. 1; v. 283; p. 109.
- Schick, George A., Camden, N. J., assignor to F. Keller, Jr., Philadelphia, Pa. Machine for plugging leather. No. 1,368,059; Feb. 8; v. 283; p. 287.
- Schick, Hugo, St. Louis, Mo. Combination backing and post for artificial anterior teeth. No. 1,383,029; June 28; v. 287; p. 679.
- Schick, Hugo, St. Louis, Mo. Combination backing and post for artificial anterior teeth. No. 1,383,030; June 28; v. 287; p. 679.
- Schick, William, Topeka, Kans. Davenport. No. 1,388,606; Aug. 23; v. 289; p. 704.
- Schicke, Josef F., trustee. (See Schicke, Josef F., assignor.)
- Schicke, Josef F., assignor to J. F. Schicke, trustee, St. Louis, Mo. Combination-lock. No. 1,374,769; Apr. 12; v. 285; p. 310.
- Schicke, Josef F., assignor to Josef F. Schicke, trustee, St. Louis, Mo. Combination-lock. No. 1,388,378; Aug. 23; v. 289; p. 660.
- Schiffelin, Schuyler, Tuxedo Park, N. Y., assignor to H. L. Brown, Newark, N. J. Retort. No. 1,381,936; June 21; v. 287; p. 418.
- Schiffeler, Charles, Marysville, Calif. Apparatus for separating materials of different specific gravities. No. 1,381,596; June 14; v. 287; p. 293.
- Schiffeler, Charles J., and L., Berkeley, Calif. Vehicle-wheel. No. 1,381,597; June 14; v. 287; p. 293.
- Schiffeler, Leo. (See Schiffeler, Charles J., and L.)
- Schield, Wm. (See Gilda, John R., assignor.)
- Schieroni, Ettore, et al. (See Pluder, Eraldo, assignor.)
- Schiff, Henry T., Chicago, Ill., assignor to Vitrola Talking Machine Co. Sound-reproducing machine. No. 1,398,742; Nov. 29.
- Schiff, Samuel L., assignor to Vitrola Talking Machine Company, Chicago, Ill. Brake or stop device for sound-reproducing machines. No. 1,398,743; Nov. 29.
- Schiffert, Daniel M., assignor to S. B. Condit, Jr., Boston, Mass. Electric switch. No. 1,393,836; Oct. 13.
- Schilder, John J., San Francisco, Calif. Handle for sad-irons. No. 1,384,923; July 19; v. 288; p. 475.
- Schlike, Fred, Oatman, Ariz. Camping-bed. No. 1,370,227; Mar. 1; v. 284; p. 89.
- Schiller, Morris, St. Louis, Mo. Sewing-machine. No. 1,401,561; Dec. 27.
- Schilling, Bernhard, Paterson, N. J. Automatic farm lighting and power set. No. 1,377,223; May 10; v. 286; p. 217.
- Schilling, Charles, Union Hill, N. J. Photographic accessory. No. 1,372,458; Mar. 22; v. 284; p. 682.
- Schilling, George W., Philadelphia, Pa. Device for removing gear-wheels, &c. No. 1,363,760; Feb. 15; v. 283; p. 472.
- Schilling, Hugo O., assignor, by mesne assignments, to the firm of Hansa Metallwerk G. m. b. H., Abteilung Maschinenfabrik, Hamburg, Germany. Filling-machine for doughy and powdery material. No. 1,394,582; Oct. 25.
- Schilling, Paul G. (See Pribnow, Louis C. W., assignor.)
- Schilling, Walter W., Schenectady, N. Y., assignor to General Electric Company. Circuit-control mechanism. No. 1,382,936; June 28; v. 287; p. 661.
- Schimmel, Fridolin, Faribault, Minn. Combined table and writing-desk. No. 1,369,195; Feb. 22; v. 283; p. 595.
- Schimming, Anton G. (See Sumner, James I., assignor.)
- Schindler, Adolph G., Stillwater, Minn. Automobile-brake attachment. No. 1,383,490; July 5; v. 288; p. 48.
- Schindler, Benjamin, and J. G. Viertel, Freeport, assignors to S. G. V. Electrical Co., Inc., New York, N. Y. Puff-iron. No. 1,371,000; Mar. 8; v. 284; p. 282.
- Schindler, Paul, Jersey City, N. J. Automatic vacuum oil-feed for internal-combustion engines. No. 1,387,788; Aug. 16; v. 289; p. 476.
- Schinkel, Lawrence, St. Louis, Mo. Stenographer's note-holder. No. 1,384,861; July 19; v. 288; p. 463.
- Schinke, Edward C., and N. A. Sutherland, assignors to Typewriter Calculating Attachment Company, St. Louis, Mo. Calculating-machine. No. 1,388,379; Aug. 23; v. 289; p. 661.
- Schinke, Edward C., and N. A. Sutherland, assignors to Typewriter Calculating Attachment Company, St. Louis, Mo. Calculating-machine. No. 1,396,886; Nov. 15.



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- Schlipper, George A., assignor of one-half to G. M. Stedman, Aurora, Ind. Metal-cutting tool. No. 1,368,457; Feb. 15; v. 283; p. 413.
- Schirmer, Baldwin F., New York, N. Y. Spring-heel. No. 1,371,398; Mar. 15; v. 284; p. 422.
- Schirmer, Carl, Hibbing, Minn. Washing-machine. No. 1,388,064; Aug. 16; v. 289; p. 540.
- Schjelderup, Gunnar, Christiansand, Norway. Apparatus for drying material containing liquid. No. 1,391,510; Sept. 20; v. 290; p. 548.
- Schlacks, William J., Chicago, Ill. Terminal check-valve for force-feed lubricating systems. No. 1,376,833; May 3; v. 286; p. 86.
- Schlacks, William J., Chicago, Ill. Lubricator-pump. No. 1,384,098; July 12; v. 288; p. 223.
- Schlacks, William J., assignor to McCord and Company, Chicago, Ill. Check-valve structure. No. 1,384,096; July 12; v. 288; p. 223.
- Schlacks, William J., assignor to McCord & Company, Chicago, Ill. Piston-packing. No. 1,384,097; July 12; v. 288; p. 223.
- Schladinska, Charles L., Fountain City, Wis. Conveyer. No. 1,395,739; Nov. 1.
- Schlaffer, Valentin, Essen, assignor to Fried. Krupp Aktien-gesellschaft, Essen-on-the-Ruhr, Germany. Percussion-disk. No. 1,366,499; Jan. 25; v. 282; p. 603.
- Schlag, Oscar W., Chicago, Ill. Valve. No. 1,366,028; Jan. 18; v. 282; p. 467.
- Schlager, Frank J., Burlington, Iowa. Washboard-anchor. No. 1,381,753; June 14; v. 287; p. 323.
- Schlauch, Herman, Brooklyn, N. Y. Means for introducing temperature-responsive elements into engine-cooling systems. No. 1,366,894; Jan. 25; v. 282; p. 682.
- Schlake, William H., Yuma, Colo. Resilient wheel. No. 1,373,101; Mar. 29; v. 284; p. 849.
- Slater, Ivanhoe H., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,394,121; Oct. 18.
- Schlatter, Gustav. (See Mayer, H., Schlatter, and Baltensweiler.)
- Schlatter, Gustav, and P. Boeckly, Arbon, assignor to Société Anonyme Adolphe Saurer, Arbon, Switzerland. Dumping-body for trucks, &c. No. 1,393,169; Oct. 11.
- Schlaupitz, Oswald, assignor to The Timken Roller Bearing Company, Canton, Ohio. Feeding and extracting apparatus for rotary-hearth ovens. No. 1,372,781; Mar. 29; v. 284; p. 786.
- Schlaupitz, Oswald, assignor to The Timken Roller Bearing Company, Canton, Ohio. Quenching-machine. No. 1,385,402; July 26; v. 288; p. 649.
- Schleider, John C. R., McKees Rocks, Pa. Bicycle. No. 1,380,082; May 31; v. 286; p. 961.
- Schlegel, Charles P., assignor to The Schlegel Manufacturing Company, Rochester, N. Y. Aeroplane fabric. No. 1,384,099; July 12; v. 288; p. 224.
- Schlegel, Erich G., New York, N. Y. Camera matting-frame. No. 1,368,761; Feb. 15; v. 283; p. 472.
- Schlegel Manufacturing Company, The. (See Schlegel, Charles P., assignor.)
- Schlehr, Joseph A., Northville, S. D. Pliers and end wrench. No. 1,393,399; Oct. 11.
- Schleicher, Henry M. (See Hayward, C. R., Schleicher, and Stillman.)
- Schleicher, Henry M. (See Stillman, F. O., and Schleicher.)
- Schleicher, William A., Cleveland, Ohio. Hood-fastener. No. 1,382,322; June 21; v. 287; p. 489.
- Schlenker, Oscar C., Hereford, Tex. Combined tire-carrier and rim spreader and constrictor. No. 1,393,319; Oct. 11.
- Schlemmer, George, New York, N. Y. Filing-case for talking-machine records. No. 1,376,118; Apr. 26; v. 285; p. 663.
- Schlesener, Walter, Hope, Kans. Wagon attachment. No. 1,382,553; June 21; v. 287; p. 534.
- Schlesinger, Leo. (See Goldman, I., and Schlesinger.)
- Schlesinger, Leo, & Co. (See Minton, Gustave M., assignor.)
- Schlesinger, Louis. (See Bethke, John P., assignor.)
- Schleth, Friedrich, Essen, assignor to Fried. Krupp Aktien-gesellschaft, Essen-on-the-Ruhr, Germany. Apparatus for testing the sighting device of ordnance. No. 1,400,772; Dec. 20.
- Schley, Frederick L., Brooklyn, N. Y. Printer's galley. No. 1,389,223; Aug. 30; v. 289; p. 881.
- Schleyer, Victor, Anderson, assignor to Midwest Engine Company, Indianapolis, Ind. Deep-well-pump-lubrication system. No. 1,392,227; Sept. 27; v. 290; p. 766.
- Schleyer, Victor, Anderson, assignor to Midwest Engine Company, Indianapolis, Ind. Self-maintaining lubricating system for deep-well pumps. No. 1,392,228; Sept. 27; v. 290; p. 766.
- Schlichter, Enos F., Philadelphia, Pa. Silo. No. 1,367,329; Feb. 1; v. 283; p. 89.
- Schlirf, Herman, Milwaukee, Oreg. Toy wind-wheel. No. 1,380,325; May 31; v. 286; p. 1006.
- Schloerb, Albert P., assignor of one-third to W. L. Pfefferkorn and one-third to A. H. Hammett, Milwaukee, Wis. Table-pedestal and means for manufacturing the same. No. 1,371,328; Mar. 15; v. 284; p. 407.
- Schloss, Joseph W., New York, N. Y. Weighting for garments. No. 1,365,731; Jan. 18; v. 282; p. 409.
- Schloss, Meyer W., New York, N. Y., assignor to Treo Company, Inc. Elastic fabric. (Reissue.) No. 15,196; Sept. 13; v. 290; p. 378.
- Schlosser, Arthur, New York, N. Y. Advertising-sign. No. 1,396,467; Nov. 8.
- Schlosser, Arthur R., Plankinton, S. D. Vehicle attachment. No. 1,389,073; Aug. 30; v. 289; p. 852.
- Schlosser, Edward O., and H. Schneider, St. Louis, Mo. Shoe-heel. No. 1,395,740; Nov. 1.
- Schlote, Guido F., Arton, Wyo. Coat-collar fastener. No. 1,380,257; May 31; v. 286; p. 993.
- Schlote, Guido F., Arton, Wyo. Electric-switch lock. No. 1,381,021; June 7; v. 287; p. 134.
- Schlottzauer, Frank T., San Francisco, Calif. Water-heating gas-radiator. No. 1,370,368; Mar. 1; v. 284; p. 116.
- Schlutz, Henry, Pittsburgh, assignor of two-fifths to J. L. Knoedler, Option, Pa. Wrench. No. 1,395,656; Nov. 1.
- Schmadeke, Joseph, Boone, Nebr. Ice-lug for tractor-wheels. No. 1,368,762; Feb. 15; v. 283; p. 472.
- Schmalz, Alban, Chicago, Ill. Lace-tipping machine. No. 1,371,265; Mar. 15; v. 284; p. 395.
- Schmand, George H., Little Rock, Ark. Candy-lifter. No. 1,385,893; July 26; v. 288; p. 749.
- Schmaus, Conrad. (See Long, C. L., and Schmaus.)
- Schmele, Carl, Newell, S. D. Gate-fastener. No. 1,397,459; Nov. 15.
- Schmelzer, Bruno, Jersey City, N. J. Propeller. No. 1,372,834; Mar. 29; v. 284; p. 796.
- Schmerler, Joseph J., New York, N. Y. Toilet-case. No. 1,386,806; Aug. 9; v. 289; p. 239.
- Schmick, Henry J., Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del. Gearing. No. 1,384,541; July 12; v. 288; p. 315.
- Schmick, Henry J., Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del. Art of and apparatus for forming gear-teeth and the like. No. 1,384,542; July 12; v. 288; p. 316.
- Schmick, Henry J., Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del. Gearing. No. 1,384,543; July 12; v. 288; p. 316.
- Schmick, Henry J., Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del. Gear-making machine. No. 1,385,097; July 19; v. 288; p. 512.
- Schmick, Henry J., Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del. Method of and means for generating mechanical elements. No. 1,392,528; Oct. 4.
- Schmick Screw and Gear Company. (See Schmick, Henry J., assignor.)
- Schmicking, Edward H. (See Stromberg, W. E., and Schmicking.)
- Schmid, Albert, New York, N. Y. Charge-forming device for internal-combustion engines. No. 1,369,551; Feb. 22; v. 283; p. 684.
- Schmid, Edward, Columbus, Ohio. Protective device for tractor-wheels. No. 1,380,421; June 7; v. 287; p. 18.
- Schmid, Emma, executrix. (See Schmid, O. M., and Hopkins.)
- Schmid, Gerald, J., Schmid, A. E. Brichacek, and H. Tully, Schuyler, Nebr. Adjustable draft connection. No. 1,382,554; June 21; v. 287; p. 534.
- Schmid, Herman. (See Fuegel, G., and Schmid.)
- Schmid, Joseph. (See Schmid, Gerald, and J. Brichacek, and Tully.)
- Schmid, Julius. (See Steiner, Hans, assignor.)
- Schmid, Otto M., deceased, and L. S. Hopkins, Dubuque, Iowa; Emma Schmid, executrix. Phonograph friction drive mechanism. No. 1,365,732; Jan. 18; v. 282; p. 409.
- Schmider, Joseph F. (See Cook, G. L., and Schmider.)
- Schmidgall, Frederick, Cincinnati, Ohio. Latch mechanism. No. 1,394,126; Oct. 18.
- Schmidinger, Joseph, New York, N. Y. Combustion-stencil. No. 1,393,170; Oct. 11.
- Schmidt, Albert. (See Champion, A., and Schmidt.)
- Schmidt, Albert. (See Vessey, R. B., and Schmidt.)
- Schmidt, Arthur C., West New York, N. J. Handle for percolators, &c. No. 1,371,001; Mar. 8; v. 284; p. 282.
- Schmidt, Augustus F., assignor to J. H. Roney, trustee, Pittsburgh, Pa. Mechanism for controlling the admission of air and gasoline to explosive-engines. No. 1,375,610; Apr. 19; v. 285; p. 573.
- Schmidt, B. L., Company. (See Joseph, Harry F., assignor.)
- Schmidt, Benjamin F., Exeter, Calif. Camera-shutter control. No. 1,385,476; July 26; v. 288; p. 665.
- Schmidt, Benjamin F., Exeter, Calif. Brake-operating means for motor-vehicles. No. 1,394,645; Oct. 25.
- Schmidt, Charles G. and O. C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Carcass dehauling and cleaning machine. No. 1,388,898; Aug. 30; v. 289; p. 816.
- Schmidt, Christ, Everett, Wash. Watering-trough. No. 1,383,342; July 5; v. 288; p. 17.
- Schmidt, Emil P., Boston, Mass. Canopy-support for canoes and other boats. No. 1,396,063; Nov. 8.
- Schmidt, Ernest H., Cleveland Heights, assignor to The National Malleable Castings Company, Cleveland, Ohio. Shock-absorbing mechanism. No. 1,368,578; Feb. 15; v. 283; p. 437.



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- Schmidt, Frank, Swanwick, Ill. Calf-weaner. No. 1,390,061; Sept. 6; v. 290; p. 102.
- Schmidt, Frank J., assignor to A. Stein & Company, Chicago, Ill. Stamping device. No. 1,391,856; Sept. 27; v. 290; p. 691.
- Schmidt, George A., Chicago, Ill. Pleasure-railway. No. 1,395,657; Nov. 1.
- Schmidt, Henrik J., Brooklyn, N. Y., assignor to C. F. Raichlen, Bayonne, N. J. Machine for tying packages. No. 1,392,972; Oct. 11.
- Schmidt, Henry A., Long Island City, N. Y. Convertible bed-spring. No. 1,398,203; Nov. 22.
- Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Condenser installation. No. 1,367,208; Feb. 1; v. 283; p. 65.
- Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blade-mounting. No. 1,375,111; Apr. 19; v. 285; p. 438.
- Schmidt, Herman. (See Maher, P. L., Schmidt, and Kennedy.)
- Schmidt, Herman, New York, assignor to E. B. Priebe and W. C. Drake, Inwood, N. Y. Twyer construction for furnaces and underfeed stokers. No. 1,380,844; June 7; v. 287; p. 100.
- Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Fluid-transferring device. No. 1,386,958; Aug. 9; v. 289; p. 269.
- Schmidt, Henry F., Wilkinsburg, Pa., assignor to Westinghouse Gear & Dynamometer Company. Gearing. No. 1,388,897; Aug. 30; v. 289; p. 816.
- Schmidt, James J., Rahway, N. J. Combination-tool. No. 1,387,316; Aug. 9; v. 289; p. 340.
- Schmidt, John, New York, N. Y. Valve-cap. No. 1,374,395; Apr. 12; v. 285; p. 237.
- Schmidt, John, New York, N. Y. Valve-cap. No. 1,374,396; Apr. 12; v. 285; p. 238.
- Schmidt, John C. (See Reinhard, R., and Schmitt.)
- Schmidt, John, Jr., Philadelphia, Pa., assignor of one-third to A. R. Thompson, San Jose, Calif. Cooker. No. 1,397,985; Nov. 22.
- Schmidt, John H., and L. Ahlers, Harriman, Pa. Universal rivet holder-on jam. No. 1,400,571; Dec. 20.
- Schmidt, Leopold. (See Schurmann, R., and Schmidt.)
- Schmidt, Leopold, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with barrel adjustable in a lateral direction. No. 1,385,153; July 19; v. 288; p. 524.
- Schmidt Lithograph Company. (See Schmidt, Max A., assignor.)
- Schmidt, Louis A., assignor to R. Hoe and Co., New York, N. Y. Printing-plate starter. No. 1,381,349; June 14; v. 287; p. 247.
- Schmidt, Ludwig, Arth., assignor to M. Arbin, Basel, Switzerland. Separating fatty acids from vegetable and animal fats. No. 1,395,998; Nov. 1.
- Schmidt, Max A., San Francisco, Calif., assignor to Schmidt Lithograph Company. Box-printing machine. No. 1,397,881; Nov. 22.
- Schmidt, Oscar C. (See Schmidt, Charles G. and O. C.)
- Schmidt, Oscar C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Carcass dehairing and cleaning machine. No. 1,388,899; Aug. 30; v. 289; p. 816.
- Schmidt, Otto. (See Bosch, C., Schmidt, and Mittasch.)
- Schmidt, Paul, Altrahlstedt, near Hamburg, assignor to firm: Landwirtschaftliche Handelsgesellschaft m. b. H., Sudseehaus, Hamburg, Germany. Preparing a fertilizer. No. 1,378,284; May 17; v. 286; p. 473.
- Schmidt, Reinhold, Düsseldorf-Oberkassel, Germany, assignor, by mesne assignments, to N. V. Hollandsch Patent Exploitatie Maatschappij, Rotterdam, Netherlands. Time-stamp. No. 1,372,911; Mar. 29; v. 284; p. 813.
- Schmidt, Richard E. (See Martin, Edgar D., assignor.)
- Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Obtaining chlorides of potassium or other metals. No. 1,367,836; Feb. 8; v. 283; p. 246.
- Schmidt, Walter A., assignor to International Precipitation Company, Los Angeles, Calif. Obtaining metallic values from ores. No. 1,368,973; Feb. 15; v. 283; p. 512.
- Schmidt, Wilhelm, Wilhelmshöhe, near Cassel, Germany, assignor, by mesne assignments, to Superheater Company. Power-engine plant. No. 1,398,946; Nov. 29.
- Schmidt, Wilhelm A., Ilion, assignor, by mesne assignments, to Remington Arms Company, Inc., New York, N. Y. Machine for straightening barrels. No. 1,367,099; Feb. 1; v. 283; p. 43.
- Schmidt, Wilhelm A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,388,207; Aug. 23; v. 289; p. 625.
- Schmidt, William C., Philadelphia, Pa. Neckwear. No. 1,386,429; Aug. 2; v. 289; p. 91.
- Schmidt, William F., Green Bay, Wis. Automatic grease-plug lock. No. 1,399,085; Dec. 6.
- Schmidtké, John A., Calgary, Alberta, Canada. Tire-filling composition. No. 1,376,973; May 3; v. 286; p. 113.
- Schmiedel, Theodor, Nürnberg-Doos, and H. Klencke, Frankfurt-on-the-Main, Germany, assignors to Ed. Greiter & Cie., Basel, Switzerland. Production of sulfuric acid without chambers and towers. No. 1,399,526; Dec. 6.
- Schmilowitz, Abraham, Jersey City, N. J. Combined gas heating and cooking stove. No. 1,379,701; May 31; v. 286; p. 889.
- Schmit, Joseph, Lansing, Mich. Driving and steering mechanism. No. 1,388,004; Aug. 16; v. 289; p. 529.
- Schmitt, Alloys P., Buffalo, N. Y. Support for tire-casings, &c. No. 1,391,857; Sept. 27; v. 290; p. 691.
- Schmitt, Daniel W., Reno county, near Kingman, Kans. Cultivator. No. 1,397,333; Nov. 15.
- Schmitt, Edmund, Detroit, Mich. Fuel-mixer for internal-combustion engines. No. 1,370,920; Mar. 8; v. 284; p. 266.
- Schmitt, Henry G., Pine City, N. Y. Railway-tie. No. 1,365,550; Jan. 11; v. 282; p. 334.
- Schmitt, John A., Columbus, Ohio, assignor to The Universal Milking Machine Company. Teat-cup. No. 1,388,380; Aug. 23; v. 289; p. 661.
- Schmitt, John O. (See Graf, Walter W., assignor.)
- Schmitt, Robert L. (See Genton, Aime, assignor.)
- Schmitz, Fritz, Brooklyn, assignor to Jaburg Brothers, New York, N. Y. Culinary implement. No. 1,382,677; June 28; v. 287; p. 612.
- Schmitz, Henry J., Berkeley, Calif. Fruit-canner. No. 1,388,065; Aug. 16; v. 289; p. 540.
- Schmolinski, Adolph O., St. Louis, Mo. Piston-ring. No. 1,397,334; Nov. 15.
- Schmoll, Henry J., Racine, Wis. Calf-weaner. No. 1,382,555; June 21; v. 287; p. 535.
- Schmuck, Alta M., Pasadena, Calif. Carpet-rug needle. No. 1,384,973; July 19; v. 288; p. 485.
- Schmutzer, Anton W., Crandon, Wis. Mail-bag catcher. No. 1,377,932; May 10; v. 286; p. 355.
- Schnackenberg, Henry, Brooklyn, N. Y. Outfit for producing beverages. No. 1,366,839; Jan. 25; v. 282; p. 671.
- Schnedler, William A., Glen Ridge, N. J. Safety device for clothes-wringers. No. 1,394,360; Oct. 18.
- Schnee, Asa, Jonesboro, Ark. Combined support, deflector, and housing for motor-driven fans. No. 1,372,251; Mar. 22; v. 284; p. 643.
- Schneebell, Hugo, Courbevoie, France. Exhaust-box. No. 1,401,368; Dec. 27.
- Schneible, Elsie K. (See Schneible, Ivan M., assignor.)
- Schneible, Ivan M., assignor to E. K. Schneible, Greenwich, N. Y. Sterilizer. No. 1,391,213; Sept. 20; v. 290; p. 487.
- Schneible, Joseph, Chicago, Ill. Tubular-section coupling. No. 1,366,955; Feb. 1; v. 283; p. 15.
- Schneible, Joseph, Chicago, Ill. Distilling-column. No. 1,366,956; Feb. 1; v. 283; p. 15.
- Schneible, Joseph, Chicago, Ill. Condenser. No. 1,366,957; Feb. 1; v. 283; p. 15.
- Schneible, Joseph, Chicago, Ill. Heat-exchanger. No. 1,366,958; Feb. 1; v. 283; p. 15.
- Schneible, Maxwell F. (See Catello, Patrick J., assignor.)
- Schneider, Anthony. (See Gumber, J., and Schneider.)
- Schneider, Anthony, Whippany, N. J., assignor to American Cigar Company, New York, N. Y. End-opening carton. No. 1,374,956; Apr. 19; v. 285; p. 408.
- Schneider & Cie. (See Schneider, Eugene, assignor.)
- Schneider, Daniel, Lodi, Calif. Flour-sifter. No. 1,382,937; June 28; v. 287; p. 661.
- Schneider, Eberhard, deceased, New York, N. Y.; S. Schneider, administratrix. Motion-picture apparatus. No. 1,368,763; Feb. 15; v. 283; p. 473.
- Schneider, Edward J., St. Louis, Mo. Whistle. No. 1,382,744; June 28; v. 287; p. 624.
- Schneider, Ernst, *et al.* (See Fahrni, Otto, assignor.)
- Schneider, Eugene, Le Creuzot, assignor to Schneider & Cie., Paris, France. Endless-track vehicle. No. 1,376,648; May 3; v. 286; p. 51.
- Schneider, Eugene, assignor to Schneider & Cie., Paris, France. Turbine. No. 1,371,327; Mar. 15; v. 284; p. 407.
- Schneider, Eugene, assignor to Schneider & Cie., Paris, France. Hooping-band for the movable blades of steam or gas turbines. No. 1,371,328; Mar. 15; v. 284; p. 408.
- Schneider, Eugene, assignor to Schneider & Cie., Paris, France. Recoil-brake for guns. No. 1,373,102; Mar. 29; v. 284; p. 849.
- Schneider, Eugene, assignor to Schneider & Cie., Paris, France. Recoil-brake for guns. No. 1,373,103; Mar. 29; v. 284; p. 850.
- Schneider, Eugene, assignor to Schneider & Cie., Paris, France. Detachable tire for tractor-wheels. No. 1,373,530; Apr. 5; v. 285; p. 30.
- Schneider, Eugene, assignor to Schneider & Cie., Paris, France. Wheeled axle for gun-carriages and other vehicles suspended on springs. No. 1,374,238; Apr. 12; v. 285; p. 207.
- Schneider, Eugene, assignor to Schneider & Cie., Paris, France. Tractor-vehicle. No. 1,376,649; May 3; v. 286; p. 51.



*Alphabetical list of patentees—Continued.*

- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Motor-vehicle for the transport and operation of small-caliber guns. No. 1,377,603; May 10; v. 286; p. 289.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Combined field-gun and self-propelling vehicle. No. 1,370,128; May 24; v. 286; p. 707.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Mountain-gun. No. 1,383,765; July 5; v. 288; p. 104.
- Schneider, Eugene, assignor to Schneider & Cie., Paris, France. Safety apparatus for preventing the opening of the breech of a gun before the recoil of the gun-barrel. No. 1,388,607; Aug. 23; v. 289; p. 705.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Process and apparatus for the manufacture of metal tubes by the self-hooping process. No. 1,391,009; Sept. 20; v. 290; p. 446.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for the manufacture of metal tubes by the self-hooping process. No. 1,391,010; Sept. 20; v. 290; p. 446.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Tractor having two pairs of driving-wheels. No. 1,391,011; Sept. 20; v. 290; p. 446.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Steam-turbine. No. 1,391,698; Sept. 27; v. 290; p. 659.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Telemotor. No. 1,393,837; Oct. 13.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for increasing the range of elevation in single-trail guns. No. 1,396,064; Nov. 8.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Motor-car having four driving-wheels for the transport of guns. No. 1,396,598; Nov. 8.
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Motor-car having four driving-wheels for the transport of guns. No. 1,396,599; Nov. 8.
- Schneider, Frank G., assignor to Sanitary Beverage Mixer Co., Inc., New York, N. Y. Beverage-mixer. No. 1,386,280; Aug. 2; v. 289; p. 63.
- Schneider, Frank L., Shellrock, Iowa. Barrel-lifter. No. 1,379,313; May 24; v. 286; p. 742.
- Schneider, Frederick T., New York, N. Y. Window-fastener. No. 1,399,277; Dec. 6.
- Schneider, Harry. (See Schlosser, E. O., and Schneider.)
- Schneider, Jacques, Solothurn, E. Hürlimann, Zuchwil, and F. Bilon, assignors to the Firm Scintilla, Solothurn, Switzerland. Cable-outlet of magneto-electric ignition-machines for internal-combustion engines. No. 1,397,148; Nov. 15.
- Schneider, Heinrich, Baden, Switzerland. Vehicle, more particularly a locomotive, with combustion-engine and liquid driving-gear. No. 1,389,562; Aug. 30; v. 289; p. 949.
- Schneider, Jean J. M. A. E., Paris, France. Suspension apparatus of the landing-carriages of aeroplanes. No. 1,364,588; Jan. 4; v. 282; p. 104.
- Schneider, Jean J. M. A. E., Paris, France. Apparatus for actuating, by means of auxiliary engines, devices such as the rudders of aeroplanes, ships, and the like. No. 1,365,347; Jan. 11; v. 282; p. 294.
- Schneider, Jean J. M. A. E., Paris, France. Landing-carriage for aircraft. No. 1,367,992; Feb. 8; v. 283; p. 274.
- Schneider, Jean J. M. A. E., Paris, France. Apparatus for regulating the effective surface of the radiators of aeroplane-engines. No. 1,374,610; Apr. 12; v. 285; p. 280.
- Schneider, Jean J. M. A. E., Paris, France. Arming of fighting and other aeroplanes. No. 1,383,242; June 28; v. 287; p. 719.
- Schneider, John, Elizabethport, N. J. Coupling. No. 1,393,171; Oct. 11.
- Schneider, John, Elizabeth, N. J. Twisting-tool. No. 1,395,152; Oct. 25.
- Schneider, John J., Lathrop, Mo. Safety-chain. No. 1,398,803; Nov. 29.
- Schneider, Lawrence A., and A. R. Meyer. Springfield, Minn. Cow-halter. No. 1,375,184; Apr. 19; v. 285; p. 453.
- Schneider, Louis J., assignor of one-half to E. W. Strauss, Milwaukee, Wis. Immersible heating unit. No. 1,369,475; Feb. 22; v. 283; p. 649.
- Schneider, Peter F., Detroit, Mich. Piston and valve-operating mechanism for water-motors. No. 1,369,134; Feb. 22; v. 283; p. 584.
- Schneider, Raymond J., Detroit, Mich. Washing-machine. No. 1,366,102; Jan. 18; v. 282; p. 481.
- Schneider, Richard. (See Schwab, B., Schneider, and Hoengenauer.)
- Schneider, Richard J., Ogallala, Nebr. Child's vehicle. No. 1,392,973; Oct. 11.
- Schneider, Stanislaw, administratrix. (See Schneider, Eberhard.)
- Schneider, Walter E., Pryor, Okla. Automatic lighting device for gas-stoves. No. 1,379,479; May 24; v. 286; p. 773.
- Schneider, William G., St. Louis, Mo. Automobile-head-light glass. No. 1,391,511; Sept. 20; v. 290; p. 548.
- Schneider, William H., Albany, N. Y. Internal-combustion engine. No. 1,370,707; Mar. 8; v. 284; p. 226.
- Schneiter, Edward J., Chicago, Ill. Propelling mechanism for water-craft. No. 1,379,290; May 24; v. 286; p. 737.
- Schnell, William F., Kalispell, Mont. Check, deposit, and remittance tray. No. 1,383,570; July 5; v. 288; p. 64.
- Schnelle, Edward R., Pavo, Ga. Connecting-rod. No. 1,385,894; July 26; v. 288; p. 750.
- Schniper, Samuel. (See Fraidus, Joe, assignor.)
- Schnittker, Henry A., St. Louis, Mo. Resilient wheel. No. 1,397,907; Nov. 22.
- Schnuck, Carl F. (See Bowen, D. R., and Schnuck.)
- Schnurr, Peter, Chicago, Ill. Clasp. No. 1,379,480; May 24; v. 286; p. 773.
- Schoch, Eugene P., Austin, Tex. Obtaining illuminating-gas from lignite. No. 1,364,455; Jan. 4; v. 282; p. 80.
- Schoch, Eugene P., Austin, Tex. Producing barium chlorate. No. 1,391,858; Sept. 27; v. 290; p. 691.
- Schochet, Abraham, New York, N. Y. Fastener and hanger. No. 1,368,579; Feb. 15; v. 283; p. 437.
- Schoel, August, assignor of three-tenths to G. Schoel, Waterloo, Iowa. Doughnut-machine. No. 1,381,850; June 14; v. 287; p. 341.
- Schoel, George. (See Schoel, August, assignor.)
- Schoell, Reinhold, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. No. 1,366,706; Jan. 25; v. 282; p. 644.
- Schoell, Reinhold, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Robe-holder for automobiles. No. 1,375,611; Apr. 19; v. 285; p. 633.
- Schoellerman, Alfred P., Lake Park, Iowa. Window. No. 1,399,323; Dec. 6.
- Schoellner & Horbach Mfg. Co. (See Schoellner, J. W., and Rowley, assignors.)
- Schoellner, John W. (See Rowley, J. P., and Schoellner.)
- Schoellner, John W., and J. P. Rowley, assignors to Schoellner & Horbach Mfg. Co., Newark, N. J. Manufacturing connecting members or links for cuff-buttons. No. 1,388,973; Aug. 30; v. 289; p. 832.
- Schoen, Catherine, Scranton, Pa. Sanitary protector. No. 1,376,783; May 3; v. 286; p. 76.
- Schoenborn, Otto J., St. Joseph, Mo. Antiskid attachment for vehicles. No. 1,388,066; Aug. 16; v. 289; p. 540.
- Schoenberg, Ralph A., now by judicial change of name Ralph A. Belmont, New York, N. Y., assignor to Beaver Machine and Tool Co., Inc., Newark, N. J. Pull-socket. No. 1,393,043; Oct. 11.
- Schoenberger, Michael F., Los Angeles, Calif. Resilient wheel. No. 1,370,845; Mar. 8; v. 284; p. 252.
- Schoenberger, William J. (See Schultis, Charles F., assignor.)
- Schoenert, Carl, Newark, N. J. Lock-washer. No. 1,393,910; Oct. 18.
- Schoene, Emil C. (See Mees, Eberhard F., assignor.)
- Schoenfeld, Henry F., Roseburg, Oreg. Truss. No. 1,389,600; Sept. 6; v. 290; p. 8.
- Schoenhut, A., Company. (See Schoenhut, Harry E., assignor.)
- Schoenhut, Harry E., assignor to The A. Schoenhut Company, Philadelphia, Pa. Doll. No. 1,387,317; Aug. 9; v. 289; p. 340.
- Schoenhut, Harry E., assignor to The A. Schoenhut Company, Philadelphia, Pa. Doll. No. 1,390,820; Sept. 13; v. 290; p. 345.
- Schoenknecht, Curt E. G., Newark, N. J. Bicycle. No. 1,394,866; Oct. 25.
- Schoenky, August R., Somerville, assignor to Reece Shoe Machinery Company, Boston, Mass. Welt-beating machine. No. 1,382,443; June 21; v. 287; p. 514.
- Schoenthal, Fred C., Buffalo, N. Y. Disk wheel. No. 1,382,556; June 21; v. 287; p. 535.
- Schoenthal, Fred C., Buffalo, N. Y. Disk wheel. No. 1,389,601; Sept. 6; v. 290; p. 8.
- Schoenwolf, Fred, assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Electrical rectifier and pole-changer. No. 1,382,745; June 28; v. 287; p. 625.
- Schofield, Frederick C., assignor to Comas Cigarette Machine Company, Salem, Va. Coupon or card feeding device. No. 1,396,531; Nov. 8.
- Schofield, George L., Kansas City, Mo. Wheel-axle for motor-vehicles. No. 1,367,894; Feb. 8; v. 283; p. 256.
- Schofield, George L., Kansas City, Mo. Clamp for spoke-wheels. No. 1,378,563; May 17; v. 286; p. 526.
- Schofield, George L., Kansas City, Mo. Cooling means for motor-vehicle engines. No. 1,396,785; Nov. 15.
- Scholes, Daniel R., assignor to Aermotor Company, Chicago, Ill. Windmill. No. 1,395,601; Nov. 1.
- Schofield, Harold W. (See Piccirilli, Pasquale J., assignor.)
- Schofield, William H., Brooklyn, N. Y., assignor to The Sanitary Heating Company. Gas-heater. No. 1,378,624; May 17; v. 286; p. 538.
- Schokmiller, Charles H., St. Louis, Mo. Composing-room saw. No. 1,366,500; Jan. 25; v. 282; p. 603.
- Scholes, Samuel R., Beaver, L. W. Nicols and W. F. Kaufman, Sewickley, Pa. Method of and apparatus for removing strie from melted glass. No. 1,370,873; Mar. 8; v. 284; p. 220.
- Scholes, William, Philadelphia, Pa. Twisting-machine. No. 1,391,512; Sept. 20; v. 290; p. 548.
- Scholl, Mathew G. (See Cavanah, H. E., and Scholl.)
- Scholl Mfg. Co. (See Heintze, Edmund, assignor.)



## Alphabetical list of patentees—Continued.

- Scholl, Paul, Berlin, Germany, assignor to E. Ahlert, South Pasadena, Calif. Safety device for locks. No. 1,379,048; May 24; v. 286; p. 691.
- Scholl, William M., Chicago, Ill. Felt pad. No. 1,382,678; June 28; v. 287; p. 612.
- Schollar, Percy W., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Retaining and releasing device for ropes, cordage, and the like. No. 1,392,260; Sept. 27; v. 290; p. 773.
- Schollhorn, William, Company, The. (See Bernard, William A., assignor.)
- Schollmeyer, Herbert H., Milwaukee, Wis. Motor-driven animal-skinning knife. No. 1,400,379; Dec. 13.
- Scholtz, Charles, assignor to Sharon Steel Hoop Co., Sharon, Pa. Pickling and cleaning apparatus. No. 1,368,357; Feb. 15; v. 283; p. 394.
- Scholtz, John, Philadelphia, assignor of one-third to S. A. Broza, Oreland, and one-third to G. W. Sunday, Philadelphia, Pa. Carbureter. No. 1,360,959; Feb. 1; v. 283; p. 16.
- Scholtz, John, Philadelphia, assignor of one-third to S. A. Broza, Oreland, and one-third to G. W. Sunday, Philadelphia, Pa. Gas-engine. No. 1,395,658; Nov. 1.
- Scholz, Adolf, New York, N. Y. Feed-water regulator. No. 1,372,199; Mar. 22; v. 284; p. 632.
- Scholz, Adolf, New York, N. Y. Pressure-regulator for steam-boilers. No. 1,372,200; Mar. 22; v. 284; p. 633.
- Schomacker, Bernard G., Glendorf, Ohio. Chair-back and picture-frame therefor. No. 1,395,153; Oct. 25.
- Schonitzer, Rudolph I., Detroit, Mich., assignor of one-third to J. K. Williams, Springfield, Ohio. Combined shipping-crate and table. No. 1,390,728; Sept. 13; v. 290; p. 326.
- Schonitzer, Rudolph I., Detroit, Mich., assignor of one-third to J. K. Williams, Springfield, Ohio. Field-stove. No. 1,391,415; Sept. 20; v. 290; p. 528.
- Schooley, Edward A., Pittsburgh, Pa. Making railway signal-torpedoes. No. 1,388,067; Aug. 16; v. 289; p. 541.
- Schooley, Edward A., Pittsburgh, and W. C. Wilson, Jr., Callery, assignors to Columbia Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,388,068; Aug. 16; v. 289; p. 541.
- Schopf, Henry S., Spokane, Wash. Cooler. No. 1,386,900; Aug. 9; v. 289; p. 259.
- Schopf, Michael F., and L. J. Christianson, Chicago, Ill. Antiskid device. No. 1,375,735; Apr. 26; v. 285; p. 589.
- Schopp, Laurence O., Chicago, Ill. Vacuum can-sealing machine. No. 1,371,578; Mar. 15; v. 284; p. 458.
- Schopp, Laurence O., St. Louis, Mo. Vacuum can-sealing machine. No. 1,399,805; Dec. 13.
- Schöppner, William C., Astoria, N. Y. Process and apparatus for refining chocolate and the like. No. 1,390,251; Sept. 6; v. 290; p. 138.
- Schoreck, Albert R., Chicago, Ill. Delivery and return slip for envelops. No. 1,378,903; May 24; v. 286; p. 604.
- Schorger, Arlie W., assignor to Burgess Battery Company, Madison, Wis. Dry cell. No. 1,370,052; Mar. 1; v. 284; p. 56.
- Schorpp, Jean M., Easton, Pa. Ornamental rope covering for furniture and other articles. No. 1,394,361; Oct. 18.
- Schoor, Robert, San Francisco, Calif. Direct-driven deep-well pump. No. 1,374,116; Apr. 5; v. 285; p. 143.
- Schott, Frederick, *et al.* (See Engel, William C., assignor.)
- Schoshusen, Arthur, Pittsburg, Kans. Boot or shoe former. No. 1,385,719; July 26; v. 288; p. 715.
- Schossow, Frederick A., Detroit, Mich. Flushing-valve and controlling mechanism. No. 1,364,891; Jan. 11; v. 282; p. 207.
- Schossow, Frederick A., Detroit, Mich. Flushing-valve. No. 1,368,764; Feb. 15; v. 283; p. 473.
- Schott, Edward N., Albert Lea, Minn. Detachable handle. No. 1,367,757; Feb. 8; v. 283; p. 230.
- Schott, Howard H., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. No. 1,400,907; Dec. 20.
- Schott, Rudolf F. (See Feddersen, E. A., and Schott.)
- Schou, Theodor, assignor to The Ideal Electric & Manufacturing Co., Mansfield, Ohio. Brush-holder. No. 1,378,565; May 17; v. 286; p. 526.
- Schou, Theodor, and R. L. Behrens, assignors to The Ideal Electric & Manufacturing Co., Mansfield, Ohio. Collector-ring support. No. 1,378,564; May 17; v. 286; p. 526.
- Schouten, Frans K. L., Zandam, assignor to J. C. Van Wessem, Huize Benkenhof, Bloemendaal, Netherlands. Manufacturing of fibrous material from wood or the like. No. 1,367,895; Feb. 8; v. 283; p. 257.
- Schow, Martin C., Regent, N. D. Calf-weaning device. No. 1,388,608; Aug. 23; v. 289; p. 705.
- Schowalter, Jacob A., near Newton, Kans. Headed-grain stacker. No. 1,398,204; Nov. 22.
- Schpatz, Arthur G., Milwaukee, Wis. Portable truck. No. 1,382,557; June 21; v. 287; p. 535.
- Schrade, George, New York, N. Y. Pocket-knife bolster-trimmer. No. 1,371,002; Mar. 8; v. 284; p. 282.
- Schrader, Arthur R., Chicago, Ill. Milk-bottle attachment. No. 1,381,754; June 14; v. 287; p. 324.
- Schrager, Cecil. (See Lance, Robert R., assignor.)
- Schrader, Herbert, Wheeling, W. Va. Sanitary can. No. 1,396,065; Nov. 8.
- Schrader, Lloyd F., W. E. Roberts and V. Bredlik, assignors, by mesne assignments, to Foundation Oven Corporation, New York, N. Y. Distillation-oven. No. 1,382,746; June 28; v. 287; p. 625.
- Schrader's, A., Son, Inc. (See Anderson, Thomas W., assignor.)
- Schrader's, A., Son. (See Arason, Frederick E., assignor.)
- Schrader's, A., Son. (See Burke, Wilbur B., assignor.)
- Schrader's, A., Son. (See Henemier, Robert H., assignor.)
- Schrader's, A., Son. (See Kraft, Henry P., assignor.)
- Schrader's, A., Son. (See Mills, E. F., and Teel, assignors.)
- Schrader's, A., Son. (See Myers, Eugene V., assignor.)
- Schrader's, A., Son. (See Schweinert, M. C., and Kraft, assignors.)
- Schrader's, A., Son, Incorporated. (See Allen, William A., assignor.)
- Schrader's, A., Son, Incorporated. (See Eisenkraft, Emil, assignor.)
- Schrader's, A., Son, Incorporated. (See Evans, Fred, assignor.)
- Schrader's, A., Son, Incorporated. (See Henemier, Robert H., assignor.)
- Schrader's, A., Son Incorporated. (See Myers, Eugene V., assignor.)
- Schrag, Louis C., Kitchener, Ontario, Canada. Traffic-signal for automobiles. No. 1,388,900; Aug. 30; v. 289; p. 817.
- Schrago, Morris M., Los Angeles, Calif. Sewing-machine. No. 1,399,086; Dec. 6.
- Schrago, Samuel, Los Angeles, Calif. Adjustable support for pens and the like. No. 1,387,808; Aug. 16; v. 289; p. 491.
- Schram, Carl, San Francisco, Calif. Coupling. No. 1,369,304; Feb. 22; v. 283; p. 616.
- Schram, Oscar H., Oshkosh, Wis. Adjustable chair. No. 1,393,457; Oct. 11.
- Schramm, Albert O., Los Angeles, Calif. Apparatus for stretching laundered articles for drying. No. 1,369,552; Feb. 22; v. 283; p. 665.
- Schramm, Henry A., and J. D. Hawkins, San Antonio, Tex. Memorandum-calendar. No. 1,374,239; Apr. 12; v. 285; p. 207.
- Schraner, William. (See Haeger, R. Schraner, and Haeger.)
- Schranz, Frederick G., Philadelphia, Pa. Metal-extrusion press. No. 1,393,579; Oct. 11.
- Schranz, Frederick G., Philadelphia, Pa. Billet and rod handling means for metal-extension presses. No. 1,393,580; Oct. 11.
- Schreder, Nikolaus. (See Schreder, Stefan and N.)
- Schreder, Nikolaus and S., Cleveland, Ohio. Combined coal and gas stove. No. 1,398,400; Nov. 29.
- Schreder, Stefan. (See Schreder, Nikolaus and S.)
- Schreder, Stefan and N., Cleveland, Ohio. Gas heating-stove. No. 1,377,732; May 10; v. 286; p. 314.
- Schreiber, Edward A. (See Russell, E. A., and Schreiber.)
- Schreiber, Edward A., assignor to E. H. Gold, Chicago, Ill. Tank-car-heating apparatus. No. 1,381,669; June 14; v. 287; p. 307.
- Schreiber, George I., Newark, N. J. Photographic-film-supporting frame. No. 1,391,982; Sept. 27; v. 290; p. 717.
- Schreiber, John F., Milwaukee, Wis. Timing-switch for auto lighting-circuits. No. 1,385,954; July 26; v. 288; p. 761.
- Schreiber, John H., St. Louis, Mo. Air-pump. No. 1,382,018; June 21; v. 287; p. 433.
- Schreiber, John H., St. Louis, Mo. Piston-ring. No. 1,395,366; Nov. 1.
- Schreiber, John P., Mount Vernon, Ind. Electric heater for poultry plants. No. 1,388,974; Aug. 30; v. 289; p. 832.
- Schreiber, Walter T., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Motor-fuel for aeroplanes. No. 1,398,947; Nov. 29.
- Schreiber, Walter T., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Motor-fuel. No. 1,394,948; Nov. 29.
- Schreiner, Arthur W., Brooklyn, assignor to Standard Scientific Company, New York, N. Y. Siphon. No. 1,382,600; June 21; v. 287; p. 543.
- Schreiner, Bernard L. (See Esmough, T. S., and Schreiner.)
- Schreiner, Charles H., Rock Island, Ill. Chiropractic table. No. 1,386,901; Aug. 9; v. 289; p. 259.
- Schreiner, Marcel, New York, N. Y. Swimming-glove. No. 1,371,703; Mar. 15; v. 284; p. 483.
- Schrepfer, Hugo, West Hoboken, N. J. Novelty. No. 1,376,167; Apr. 26; v. 285; p. 672.
- Schroeder, Charles, Neillsville, and A. Kuehl, Milwaukee, Wis. Clothespin. No. 1,399,661; Dec. 6.
- Schroder, Charles H., Burlington, Iowa. Grate for boiler-furnaces. No. 1,369,553; Feb. 22; v. 283; p. 665.
- Schröder, Edmund, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Welding electrically sheet-zinc lap-seams. No. 1,369,360; Feb. 22; v. 283; p. 628.
- Schröder, Edmund, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Welding flexible metal hose. No. 1,372,835; Mar. 29; v. 284; p. 797.
- Schroder, Frank P., Philadelphia, Pa. Tap. No. 1,398,156; Nov. 22.



*Alphabetical list of patentees—Continued.*

- Schröder, Henry, Chicago, Ill. Aeroplane. No. 1,382,861; June 28; v. 287; p. 647.
- Schroder, Hermann, New York, N. Y. Resonance-chamber for sound-reproducing apparatus. No. 1,395,602; Nov. 1.
- Schroeder, Anton, St. Paul, Minn. Storm-sash fastener. No. 1,366,596; Jan. 25; v. 282; p. 623.
- Schroeder, Anton, St. Paul, Minn. Storm-sash fastener. No. 1,366,597; Jan. 25; v. 282; p. 623.
- Schroeder, Anton, St. Paul, Minn. Storm-sash fastener. No. 1,366,598; Jan. 25; v. 282; p. 623.
- Schroeder, Anton, St. Paul, Minn. Hanger for storm-sash. No. 1,366,599; Jan. 25; v. 282; p. 623.
- Schroeder, Charles. (See Taplin, William M., assignor.)
- Schroeder, Charles S. (See Morgan, J. C., and Schroeder.)
- Schroeder, David H., Slater, Iowa. Lamp-burner. No. 1,375,936; Apr. 26; v. 285; p. 628.
- Schroeder, Ernest C., New York, N. Y., assignor to Kearney Comb & Novelty Co., Kearney, N. J. Clasp-fastener for handbags and the like. No. 1,396,942; Nov. 15.
- Schroeder, Francis J., Detroit, Mich. Child's cart. No. 1,384,160; July 12; v. 288; p. 236.
- Schroeder, Frank J., Rochester, N. Y. Onion-topping machine. No. 1,379,049; May 24; v. 286; p. 692.
- Schroeder, Fred H., Jr., Tacoma, Wash. Spacing device for reinforcing-bars in concrete. No. 1,365,125; Jan. 11; v. 282; p. 252.
- Schroeder, Herman, Quincy, Ill. Poisonous compound for rats and the like. No. 1,372,092; Mar. 22; v. 284; p. 612.
- Schroeder, Herman, Quincy, Ill. Poisonous compound for rats, &c. (Reissue.) No. 1,372,092; June 21; v. 287; p. 546.
- Schroeder, Karl W. H., Leipzig-Reudnitz, Germany. Imitation water-fall. No. 1,399,662; Dec. 6.
- Schroeder, Otto F., Santa Ana, Calif. Audible signal for pneumatic tires. No. 1,373,453; Apr. 5; v. 285; p. 14.
- Schroeder, Otto F., Santa Ana, Calif. Tire-alarm. No. 1,391,513; Sept. 20; v. 290; p. 548.
- Schroeder, Martin P. H. (See Awe, William F., assignor.)
- Schroeder, Ruth S. M., Chicago, Ill. Hair-dressing appliance. No. 1,394,943; Oct. 25.
- Schroeder, William, Brooklyn, N. Y., assignor to Karry-Lode Industrial Truck Company. Industrial truck. No. 1,391,699; Sept. 27; v. 290; p. 659.
- Schroeder, William A., Seattle, Wash. Controllable headlight-screen. (Reissue.) No. 1,375,088; Apr. 12; v. 285; p. 336.
- Schroeder, William A., Seattle, Wash. Dimming device for headlights. No. 1,375,418; Apr. 19; v. 285; p. 497.
- Schroeder, William A., Seattle, Wash. Dimming device for headlights. No. 1,389,273; Aug. 30; v. 289; p. 892.
- Schroepfer, Andrew J., Visalia, Calif. Direction-indicator for motor-vehicles. No. 1,370,846; Mar. 8; v. 284; p. 253.
- Schroedter, Edmund, assignor to The O. Maurer Company, Incorporated, Brooklyn, N. Y. Ash-receiver. No. 1,401,282; Dec. 27.
- Schroedter, Herman M. (See Howell, Evelyn L. V., assignor.)
- Schroedter, John O., and J. Kelling, assignors to Monarch Fleshing Machine Company, Milwaukee, Wis. Fleshing machine. No. 1,382,126; June 21; v. 287; p. 453.
- Schroeter, Oscar J., St. Louis, Mo. Mole-trap. No. 1,382,125; June 21; v. 287; p. 452.
- Schroetter, Arnold, New York, N. Y. Safety-catch for pins and similar articles. No. 1,370,053; Mar. 1; v. 284; p. 56.
- Schroetter, Arnold, New York, N. Y. Clasp. No. 1,396,887; Nov. 15.
- Schrör, George L. (See Schrör, Theodore H. and G. L.)
- Schrör, Theodore H. and G. L., Avon, N. Y. Game. No. 1,375,262; Apr. 19; v. 285; p. 467.
- Schruth, Albert. (See Schruth, Edward, A., and J. F.)
- Schruth, Edward, A., and J. F., Pepin, Wis. Latch. No. 1,384,782; July 19; v. 288; p. 446.
- Schruth, John F. (See Schruth, Edward, A., and J. F.)
- Schryer, Frank H., Wauwatosa, Wis. Magneto. No. 1,385,720; July 26; v. 288; p. 715.
- Schubel, George, Ridgewood, N. Y. Loose-leaf binder. No. 1,364,526; Jan. 4; v. 282; p. 93.
- Schubel, George, Ridgewood, N. Y. Directory. No. 1,364,527; Jan. 4; v. 282; p. 93.
- Schubert, Herman, Troy, N. Y., assignor to James A. Whelan, Troy, N. Y. Scale. No. 1,364,146; Jan. 4; v. 282; p. 19.
- Schubert, Hermann J., Hackensack, N. J. Measuring and molding device. No. 1,390,590; Sept. 13; v. 290; p. 299.
- Schubert, Julius J., St. Paul, Minn. Storm-sash hanger. No. 1,391,700; Sept. 27; v. 290; p. 659.
- Schuchardt, Rudolph F., Chicago, Ill. Meter. No. 1,366,960; Feb. 1; v. 283; p. 16.
- Schuchardt, Rudolph F., Chicago, Ill. Meter. No. 1,370,161; Mar. 1; v. 284; p. 77.
- Schueler, Eugène, assignor to Societe Industrielle De Celluloid, Paris, France. Rotary pocket-fan. No. 1,387,186; Aug. 9; v. 289; p. 314.
- Schultis, Charles F., assignor of one-half to W. J. Schoenberger, Cleveland, Ohio. Press for squeezing sand in bags. No. 1,400,321; Dec. 13.
- Schultz, Edward, Naywood, assignor, by mesne assignments, to Mrs. E. A. Laughery, Chicago, Ill. Coin-operated vending-machine. No. 1,400,773; Dec. 20.
- Schuer, Sophia E., Warren, Mich. Impression-paper. No. 1,377,368; May 10; v. 286; p. 246.
- Schuermann, Anton C. (See Mueller, P., and Schuermann.)
- Schuermann, Anton C. (See Mueller, P., Schuermann, and Mueller.)
- Schuermann, Anton C., assignor to Adolph Mueller, trustee, Decatur, Ill. Combined stop-cock and strainer. No. 1,394,762; Oct. 25.
- Schuermann, Julius J., Clinton, Iowa. Photographer's head-screen. No. 1,378,904; May 24; v. 286; p. 664.
- Schuessler, Leo W., Chicago, Ill. Air-preheating device. No. 1,388,381; Aug. 23; v. 289; p. 661.
- Schulder, Fred, assignor to United Brass Manufacturing Company, Cleveland, Ohio. Cock or faucet. No. 1,391,012; Sept. 20; v. 290; p. 446.
- Schuldt, Will, Arlington township, Woodbury county, Iowa. Tire-tube container. No. 1,378,905; May 24; v. 286; p. 665.
- Schuler, Harry L., Bloomington, Ill. Attachment for steering mechanism of motor-driven vehicles. No. 1,375,419; Apr. 19; v. 285; p. 497.
- Schuler, Adam F., Philadelphia, Pa. Jacquard mechanism. No. 1,382,558; June 21; v. 287; p. 535.
- Schuler, Josef, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Unsaturated ether of ethenylparaloxodiphenylamidin. No. 1,384,637; July 12; v. 288; p. 336.
- Schulman, David D., deceased, Brooklyn; F. R. Schulman, administratrix, assignor to The Munro & Harford Company, New York, N. Y. Letter-sheet. No. 1,394,362; Oct. 18.
- Schulman, Florence R., administratrix. (See Schulman, David D.)
- Schulse, Herman E. (See Van Nostrand, C. H., and Schulse.)
- Schulte, Bernard F., Chicago, Ill. Advertising method and means. No. 1,371,521; Mar. 15; v. 284; p. 447.
- Schulte, Edmund, and Joseph Weite, Jr., Bronxville, N. Y.; said Schulte assignor to said Weite. Smoker's utensil. No. 1,364,892; Jan. 11; v. 282; p. 207.
- Schulte, Edmund, and J. Weite, Jr., Yonkers, N. Y.; said Schulte assignor to said Weite. Cigar, cigarette, and match holder and ash-receiver. No. 1,364,893; Jan. 11; v. 282; p. 207.
- Schulte, Louis, Pittsburgh, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Renovating polishing-plates. No. 1,373,837; Apr. 5; v. 285; p. 89.
- Schulte, Louis, Pittsburgh, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nickel-plating solution. No. 1,379,050; May 24; v. 286; p. 692.
- Schulte, Walter B., Madison, Wis., assignor to Burgess Battery Company. Dry cell and manufacturing the same. No. 1,370,054; Mar. 1; v. 284; p. 57.
- Schulte, Walter B., Madison, Wis., assignor to Burgess Battery Company. Dry cell and manufacturing the same. No. 1,370,055; Mar. 1; v. 284; p. 57.
- Schulte, Walter B., Madison, Wis., assignor to Burgess Battery Company. Two-solution pasting. No. 1,370,056; Mar. 1; v. 284; p. 57.
- Schultenover, Isidore J., assignor of one-fourth to A. H. Kraker and one-fourth to E. J. McGowan, Melrose, Minn. Device for burning in bearings of automobiles. No. 1,368,060; Feb. 8; v. 283; p. 287.
- Schultheiss, Joseph F., Weehawken, N. J. Game apparatus. No. 1,379,218; May 24; v. 286; p. 724.
- Schultz, Charles, New York, N. Y. Holder for disk records. No. 1,374,240; Apr. 12; v. 285; p. 207.
- Schultz, Emile J. A., Paris, France. Economical lubricant-distributor for mechanical installation. No. 1,379,219; May 24; v. 286; p. 724.
- Schultz, Emile J. A., Paris, France. Internal-combustion engine. No. 1,380,422; June 7; v. 287; p. 18.
- Schultz, Emile J. A., Paris, France. Elastic rod for motors. No. 1,385,758; July 26; v. 288; p. 723.
- Schultz, Ferdinand H., Treynor, Iowa. Insect-trap. No. 1,367,100; Feb. 1; v. 283; p. 43.
- Schultz, Ferdinand H., Treynor, Iowa. Flying toy. No. 1,382,559; June 21; v. 287; p. 535.
- Schultz, Ferdinand H., Treynor, Iowa. Flying-toy gun. No. 1,382,560; June 21; v. 287; p. 535.
- Schultz, Herman. (See Borgeson, Oscar V., assignor.)
- Schultz, Max. (See Bloom, Bertha, assignor.)
- Schultz, Mikel, Kaylor, Pa. Double-moldboard plow. No. 1,384,924; July 19; v. 288; p. 475.
- Schultz, Oswald R., and O. Kirsch, New York, N. Y. Method of and apparatus for making multicolor prints. No. 1,379,365; May 24; v. 286; p. 752.
- Schultz, Paul, Middleville, N. Y. Splitting-wedge. No. 1,395,209; Oct. 25.
- Schultz, Reinhold. (See Walton, F. S., and Schultz.)
- Schultz, William H., Bartlett, Ill. Pipe-lifter. No. 1,364,589; Jan. 4; v. 282; p. 104.
- Schultze, Charles, et al. (See Howell, Henry M., assignor.)
- Schultze, Edward O., Staplehurst, Nebr. Tractor-controlling means. No. 1,366,287; Jan. 18; v. 282; p. 518.
- Schultze, Theodore C., assignor to H. Lucas, Grand Rapids, Mich. Fruit-picker. No. 1,373,531; Apr. 5; v. 285; p. 30.
- Schulz, Carl F., New York, N. Y. Carbureter. No. 1,393,044; Oct. 11.
- Schulz, Gustav O., Revere, Mass. Wall construction. No. 1,383,766; July 5; v. 288; p. 106.



## Alphabetical list of patentees—Continued.

- Schulz, Jacques G., Paris, France. Driving-wheel for machines moving over soft ground. No. 1,386,281; Aug. 2; v. 289; p. 63.
- Schulz, John A., Baltimore, Md. Shoe-stretcher. No. 1,387,516; Aug. 16; v. 289; p. 432.
- Schulz, John C., Stockport, Iowa. Breeding-crate. No. 1,389,993; Sept. 6; v. 290; p. 87.
- Schulz, M., Company. (See Gustafson, Adolph P., assignor.)
- Schulz, Robert, Milwaukee, Wis. Window-screen. No. 1,387,947; Aug. 16; v. 289; p. 518.
- Schulze, Arthur, assignor of one-half to Deutsche Lichtbild-Gesellschaft E. V., Berlin, Germany. Optical projection-screen. No. 1,381,022; June 7; v. 287; p. 134.
- Schulze, Arthur, assignor of one-half to Deutsche Lichtbild-Gesellschaft, Berlin, Germany. Process and device for ascertaining the correct exposure for copying rows of pictures on film-bands. No. 1,387,318; Aug. 9; v. 289; p. 341.
- Schulze, Arthur, Berlin, Germany. Process and device for producing guilloches and the like. No. 1,391,859; Sept. 27; v. 290; p. 691.
- Schulze, Richard F., Shelbyville, Ind. Egg-holder. No. 1,386,078; Aug. 2; v. 289; p. 23.
- Schumacher, Albert J., San Francisco, Calif. Manufacture of hydrogen peroxid. No. 1,398,468; Nov. 29.
- Schumacher, Elmer L., Southbridge, and W. H. Boutelle, assignors to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,384,862; July 19; v. 288; p. 463.
- Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting and making same. No. 1,401,283; Dec. 27.
- Schumacher, Henry, Alma, Mo. Controlling device for petcocks of automobiles. No. 1,381,670; June 14; v. 287; p. 307.
- Schumacher, Henry C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Shuck-feeding mechanism for box-filling machines. No. 1,388,668; Aug. 23; v. 289; p. 716.
- Schumacher, John, Los Angeles, Calif. Plaster-board and method of making same. No. 1,376,784; May 3; v. 286; p. 76.
- Schumacher, John, Los Angeles, Calif. Process and means for making plaster-board and the like. No. 1,379,940; May 31; v. 286; p. 934.
- Schumacher, Joseph E., Los Angeles, Calif. Collapsible and expandible shelter. No. 1,375,420; Apr. 19; v. 285; p. 497.
- Schumaker, Charles F., St. Louis, Mo. Fence-stretcher. No. 1,389,994; Sept. 6; v. 290; p. 87.
- Schumaker, Edward E., Hilbert, Wis. Water-elevating unit. No. 1,383,031; June 28; v. 287; p. 679.
- Schumaker, Lawrence A., Michigan City, Ind. Automobile-door latch. No. 1,393,911; Oct. 18.
- Schumaker, Lorraine J., assignor to The American Pretzel Company, Philadelphia, Pa. Food product. No. 1,366,961; Feb. 1; v. 283; p. 16.
- Schuman, James B., Indianapolis, Ind., assignor to Three Wheel Drive Tractor Co. Tractor. No. 1,369,709; Feb. 22; v. 283; p. 695.
- Schurle, John F., Cashmere, Wash. Tractor attachment. No. 1,381,755; June 14; v. 287; p. 324.
- Schürmann, Richard, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Pointing device for ordnance. No. 1,368,458; Feb. 15; v. 283; p. 413.
- Schürmann, Richard, and L. Schmidt, Essen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Pointing device for ordnance. No. 1,384,000; July 5; v. 288; p. 154.
- Schussler, Francis, Wilkes-Barre, Pa. Aeroplane-guy-wire connection. No. 1,392,529; Oct. 4.
- Schussler, John H., Chicago, Ill. Auxiliary track for printing-presses. No. 1,373,454; Apr. 5; v. 285; p. 14.
- Schussler, Walter H. (See Abrecht, E., and Schussler.)
- Schuster, Carl J., assignor of one-fourth to A. W. H. Hartman and one-fourth to L. E. H. Will, Milwaukee, Wis. Bottle-closure. No. 1,369,843; Mar. 1; v. 284; p. 17.
- Schuster, Harold C., Oconomowoc, Wis. Spring-leaf spreader. No. 1,390,167; Sept. 6; v. 290; p. 122.
- Schuster, John, et al. (See Ellis, James H., assignor.)
- Schuster, Carl R., Brooklyn, N. Y. Scaffold-bracket. No. 1,391,983; Sept. 27; v. 290; p. 717.
- Schutt, Richard E., deceased; J. M. Keith, executor, San Jose, Costa Rica, assignor to United Fruit Company, Boston, Mass. Loading device. No. 1,389,995; Sept. 6; v. 290; p. 88.
- Schutte, August E., Northboro, Mass. Concrete-mixer. No. 1,367,719; Feb. 8; v. 283; p. 223.
- Schutte & Koerting Company. (See Derby, Samuel E., assignor.)
- Schuttler, William, Chicago, Ill., assignor to American Arch Company, New York, N. Y. Arch-brick. No. 1,372,320; Mar. 22; v. 284; p. 656.
- Schutz Hawley Co. (See Schutz, Joseph M., assignor.)
- Schutz, Joseph M., assignor to Schutz Hawley Company, Chicago, Ill. Carbureting air for internal-combustion engines. No. 1,397,744; Nov. 22.
- Schuyler, William H., and G. J. Chiles, Chicago, Ill. Means for polishing space-bands. No. 1,388,767; Aug. 23; v. 289; p. 736.
- Schwab, Bertha M., Good Ground, N. Y. Vanity-case. No. 1,369,938; Mar. 1; v. 284; p. 35.
- Schwab, Bruno, Schneider, Richard, and Hoegenauer, Haver, San Antonio, Tex. Cotton-chopper. No. 1,374,474; Apr. 12; v. 285; p. 253.
- Schwab, Frank X., Buffalo, N. Y. Delivery-case for bottled beverages. No. 1,378,197; May 17; v. 286; p. 456.
- Schwabach, Georg, Charlottenburg, near Berlin, Germany. Removing material to be dumped, &c. No. 1,399,663; Dec. 6.
- Schwagel, Nicholas, Dayton, Ohio. Adjustable work-support. No. 1,366,962; Feb. 1; v. 283; p. 16.
- Schwager, Joseph W., Utica, Minn. Mixing-machine. No. 1,391,013; Sept. 20; v. 290; p. 447.
- Schwagermann, William, Yonkers, N. Y., assignor to Ward Leonard Electric Company. Resistance unit. No. 1,366,600; Jan. 25; v. 282; p. 624.
- Schwagermann, William, Yonkers, N. Y., assignor to Ward Leonard Electric Company. Rheostat. No. 1,374,241; Apr. 12; v. 285; p. 208.
- Schwaller, Alfred H., Milwaukee, Wis. Fountain-washer for clothes-boilers. No. 1,379,783; May 31; v. 286; p. 904.
- Schwall, Carl J. (See Hummell, H. Martin, and Schwall.)
- Schwamb, Joseph H., Nevada, Mo. Loading device. No. 1,369,844; Mar. 1; v. 284; p. 17.
- Schwank, James O. (See Madigan, Thomas J., assignor.)
- Schwane, John M., Brooklyn, N. Y. Cleansing and polishing paste. No. 1,382,019; June 21; v. 287; p. 433.
- Schwareman, Alexander, assignor to Spencer Kellogg & Sons, Inc., Buffalo, N. Y. Treating oils. No. 1,372,631; Mar. 22; v. 284; p. 715.
- Schwareman, Alexander, assignor to Spencer Kellogg & Sons, Inc., Buffalo, N. Y. Treatment of castor-oil. No. 1,372,632; Mar. 22; v. 284; p. 716.
- Schwarting, Hugo, Green Bay, Wis. Hand twine-cutter. No. 1,398,919; Nov. 29.
- Schwartz, Aaron, Brookline, assignor to Safehack Mills, Boston, Mass. Paper-reinforcing machine. No. 1,383,243; June 28; v. 287; p. 719.
- Schwartz, Benjamin, St. Louis, Mo. Controller for speed-changing mechanism. No. 1,370,609; Mar. 8; v. 284; p. 207.
- Schwartz, Carl, New Rochelle, assignor to Vapor Car Heating Company, Inc., New York, N. Y. Heating system. No. 1,369,710; Feb. 22; v. 283; p. 695.
- Schwartz, Carl, New Rochelle, assignor to Vapor Car Heating Company, Inc., New York, N. Y. Heating system. No. 1,369,711; Feb. 22; v. 283; p. 696.
- Schwartz, Carl, New Rochelle, assignor to Vapor Car Heating Company, Inc., New York, N. Y. Heating system. No. 1,369,712; Feb. 22; v. 283; p. 696.
- Schwartz, Charles, Villeurbanne, assignor to Societe Gillet & Fils, Lyon, Rhone, France. Treatment of vegetable fibers. No. 1,384,677; July 12; v. 288; p. 345.
- Schwartz, Charles, Villeurbanne, assignor to Societe Gillet & Fils, Lyon, Rhone, France. Treatment of vegetable fibers. No. 1,398,804; Nov. 29.
- Schwartz, Charles, Villeurbanne, assignor to Société Gillet & Fils, Lyon, Rhone, France. Treatment of vegetable fibers. No. 1,400,380; Dec. 13.
- Schwartz, Charles, Villeurbanne, France, assignor to Société Gillet & Fils, Lyon, Rhone, France. Treatment of vegetable fibers. No. 1,400,381; Dec. 13.
- Schwartz, Edward, New York, N. Y., assignor to Manhattan Electrical Supply Company, Inc., Jersey City, N. J. Wire-terminal. No. 1,385,928; July 26; v. 288; p. 756.
- Schwartz, Edward H., Inc. (See Schwartz, Edward H., assignor.)
- Schwartz, Edward H., assignor to Edward H. Schwartz, Inc., Chicago, Ill. Burner. No. 1,391,416; Sept. 20; v. 290; p. 529.
- Schwartz, Erik M. (See Contrado, F., Swanson, and Schwartz.)
- Schwartz, Francis, Brooklyn, N. Y. Tobacco-tablet. No. 1,376,586; May 3; v. 286; p. 39.
- Schwartz, Frank J., Auburn, N. Y. Shaft-lubricator. No. 1,371,817; Mar. 15; v. 284; p. 503.
- Schwartz, Fred A., Brooklyn, N. Y. Automatically-adjustable knives for use with rubber-working calenders. No. 1,381,242; June 14; v. 287; p. 227.
- Schwartz, Fred A., Brooklyn, N. Y. Mold for pneumatic tubes. No. 1,388,382; Aug. 23; v. 289; p. 661.
- Schwartz, Israel, Danbury, Conn. Handle-bar-post-repair parts for bicycles. No. 1,379,784; May 31; v. 286; p. 904.
- Schwartz, Maurice P., Indianapolis, Ind. Cabinet. No. 1,378,285; May 17; v. 286; p. 473.
- Schwartz, Samuel R., New York, N. Y. Mounting lamp-shades. No. 1,389,013; Aug. 30; v. 289; p. 840.
- Schwartz, Walter M., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drier. No. 1,377,793; May 10; v. 286; p. 327.
- Schwartz, William R., Independence, N. D. Plow attachment. No. 1,374,033; Apr. 5; v. 285; p. 127.
- Schwartz, Charles, Kenosha, Wis. Railway-crossing apparatus. No. 1,389,535; Aug. 30; v. 289; p. 944.
- Schwartzlose, Noah W. (See Beylik, Franklin G., assignor.)
- Schwarz, Albert. (See de Dragic, T., and Schwarz.)
- Schwarz, Alfred, Joplin, Mo., assignor to W. Scully, trustee, Brooklyn, N. Y. System of supplying an explosive mixture to engines and turbines. No. 1,384,570; July 12; v. 288; p. 321.



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- Schwarz, Alfred, Joplin, Mo., assignor to Metals Recovery Company, New York, N. Y. Concentration of ores and the like. No. 1,394,958; Oct. 25.
- Schwarz, Carl, Philadelphia, Pa. Planer-clamp. No. 1,372,459; Mar. 22; v. 284; p. 682.
- Schwarz, Charles L., Philadelphia, Pa. Copying-lathe. No. 1,375,326; Apr. 19; v. 285; p. 480.
- Schwarz, Charles F., and C. L. Shader, Troy, N. Y. Collar-band. No. 1,383,343; July 5; v. 288; p. 17.
- Schwarz, Elmer H., Glen Rock, N. J., assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,375,736; Apr. 26; v. 285; p. 590.
- Schwarz, Emil P., St. Paul, Minn. Wrench. No. 1,399,890; Dec. 13.
- Schwarz, Henry G., Denver, Colo. Evaporator. No. 1,385,499; July 26; v. 288; p. 670.
- Schwarz, John R., St. Joseph, Mo. Velocipede for children. No. 1,386,736; Aug. 9; v. 289; p. 224.
- Schwarz, Justin O., New York, N. Y., and G. Bjorklund, West New York, N. J. Roll-box and pedal mechanism. No. 1,369,554; Feb. 22; v. 283; p. 665.
- Schwarz, Justin O., New York, N. Y., and G. Bjorklund, West New York, N. J. Pneumatic action. No. 1,398,469; Nov. 29.
- Schwarz, Paul G., assignor to Drew Electric and Manufacturing Company, Indianapolis, Ind. Catenary trolley-clamping ear. No. 1,393,458; Oct. 11.
- Schwarz, Richard E., Royal Oak township, Oakland county, Mich. Shingle-machine. No. 1,396,468; Nov. 8.
- Schwarze, Carl J. (See Saxon, H. R., and Schwarze.)
- Schwarze Electric Company, The, *et al.* (See Saxon, H. R., and Schwarze, assignors.)
- Schwarze, William, Philadelphia, Pa., assignor to R. H. Wyner, Boston, Mass. Spring-needle knitting-machine. No. 1,386,431; Aug. 2; v. 289; p. 92.
- Schwarzenbach, Alvin J., Hasbrouck Heights, N. J., assignor of one-half to M. Gold, New York, N. Y. Machine for shaping artificial-flower petals. No. 1,366,747; Jan. 25; v. 282; p. 652.
- Schwarzer, Fritz, St. Gallen, Switzerland. Combination air-valve and priming-cup. No. 1,383,244; June 28; v. 287; p. 719.
- Schwarzer, Joseph K., Syracuse, N. Y. Cleat attachment for football-shoes. No. 1,391,346; Sept. 20; v. 290; p. 515.
- Schwarzmann, Wolfgang E., Springfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Ignition-timing mechanism. No. 1,375,263; Apr. 19; v. 285; p. 467.
- Schwarzmann, Wolfgang E., Longmeadow, and C. F. Toren, assignors to American Bosch Magneto Corporation, Springfield, Mass. Impulse-coupling. No. 1,393,703; Oct. 11.
- Schwarzmann, Wolfgang E., Longmeadow, assignor to American Bosch Magneto Corporation, Springfield, Mass. Electric brush. No. 1,393,704; Oct. 11.
- Schweers, John D., Elizabeth, N. J. Valve for internal-combustion engines. No. 1,400,006; Dec. 13.
- Schweiger, William F., assignor to Multipost Company, Rochester, N. Y. Stamp-affixer. No. 1,379,651; May 31; v. 286; p. 880.
- Schweimlein, William. (See Bloss, R. R., and Schweimlein.)
- Schweint, M. C., West Hoboken, and H. P. Kraft, Ridgewood, N. J. Pressure-gage for pneumatic tires or the like. No. 1,379,220; May 24; v. 286; p. 724.
- Schweint, Maximilian C. (See Kraft, H. P., and Schweint.)
- Schweint, Maximilian C., West Hoboken, and H. P. Kraft, Ridgewood, N. J. Tire-valve. No. 1,366,501; Jan. 25; v. 282; p. 603.
- Schweint, Maximilian C., West Hoboken, and H. P. Kraft, Ridgewood, N. J. Tire-valve. No. 1,366,963; Feb. 1; v. 283; p. 17.
- Schweint, Maximilian C., West Hoboken, and H. P. Kraft, Ridgewood, N. J., assignors to A. Schrader's Son, Incorporated, Brooklyn, N. Y. Combined gage and coupling. No. 1,369,555; Feb. 22; v. 283; p. 665.
- Schweint, Maximilian C., West Hoboken, and H. P. Kraft, Ridgewood, N. J. Inflating-coupling. No. 1,374,397; Apr. 12; v. 285; p. 238.
- Schweint, Maximilian C., West Hoboken, N. J. Pneumatic valve. No. 1,382,389; June 21; v. 287; p. 503.
- Schweint, Maximilian C., West Hoboken, N. J. Water-bottle stopper. No. 1,382,679; June 28; v. 287; p. 612.
- Schweint, Maximilian C., West Hoboken, N. J. Stopper for water-bottles or the like. No. 1,383,767; July 5; v. 288; p. 106.
- Schweint, Maximilian C., West Hoboken, N. J. Rimnut. No. 1,398,604; Nov. 29.
- Schweinfurth, Walter P., Westfield, N. J. Tag or label. No. 1,371,266; Mar. 15; v. 284; p. 395.
- Schweizer-Cailaux, Jean F., Vincennes, France. Hat-protector. No. 1,373,713; Apr. 5; v. 285; p. 64.
- Schweitzer & Conrad. (See Conrad, Nicholas J., assignor.)
- Schweitzer, Edmund O. (See Herz, Alfred, assignor.)
- Schweitzer, Wilhelm H., Heidelberg, Germany, assignor to Society "Technochemia," Aktiengesellschaft, Glarus, Switzerland. Textile product derived from animal fiber and making same. No. 1,389,274; Aug. 30; v. 289; p. 892.
- Schweitzer, Wilhelm H., Heidelberg, Germany, assignor to Society "Technochemia," Aktiengesellschaft, Glarus, Switzerland. Textile product derived from an animal fiber and making same. No. 1,389,275; Aug. 30; v. 289; p. 892.
- Schweizerische Lokomotiv & Maschinenfabrik. (See Wiederkehr, Hans, assignor.)
- Schweizerische Sodafabrik. (See Cramer, Carl, assignor.)
- Schweimlein, William. (See Bloss, R. R., and Schweimlein.)
- Schwer, George A., and O. E. Bornhauser, Sandusky, Ohio. Valve mechanism. No. 1,389,276; Aug. 30; v. 289; p. 892.
- Schwerin, Frank H., Westview borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Self-lowering jack. No. 1,397,882; Nov. 22.
- Schweizer, Henry, Roca, Nebr. Spark-plug. No. 1,368,358; Feb. 15; v. 283; p. 394.
- Schwyer, Daniel H., Easton, Pa. Automatic train-control system. No. 1,389,602; Sept. 6; v. 290; p. 8.
- Schwie, Emmett H., Huntington, N. Y. Stadia-rod. No. 1,381,023; June 7; v. 287; p. 135.
- Schwimmer, Frederick J., Toledo, Ohio, assignor to Howard Iron Works, Buffalo, N. Y. Bolt-heading machine. No. 1,381,509; June 14; v. 287; p. 276.
- Schwimmer, Oscar, Los Angeles, Calif. Gas-shut-off control for water-heaters. No. 1,386,370; Aug. 2; v. 289; p. 80.
- Schwimmer, Oscar, assignor to Patent Products Company, Los Angeles, Calif. Towel-machine. No. 1,386,369; Aug. 2; v. 289; p. 80.
- Schwinzer, Babette, Harrison, N. J. Larding-needle. No. 1,384,161; July 12; v. 288; p. 236.
- Schwitzer, Louis, Indianapolis, Ind. Means for lubricating bearings. No. 1,364,647; Jan. 4; v. 282; p. 115.
- Schwitzer, Louis, assignor to Automotive Parts Company, Indianapolis, Ind. Lubricating means for fans. No. 1,381,671; June 14; v. 287; p. 307.
- Schwybold, Ray W., assignor of two-thirds to O. K. Jones and F. M. Peter, Cincinnati, Ohio. Copy-sheet. No. 1,371,818; Mar. 15; v. 284; p. 503.
- Schylander, John F., assignor of one-half to F. A. Diener, Chicago, Ill. Automobile-lock. No. 1,375,737; Apr. 26; v. 285; p. 590.
- Schylander, John F., Chicago, Ill. Cabinet. No. 1,398,744; Nov. 29.
- Scater, Ivanhoe H., Pittsfield, Mass., assignor to General Electric Company, Inc. Incased electrical apparatus. No. 1,379,481; May 24; v. 286; p. 773.
- Scientific Farming Machinery Company. (See Hicks, Thomas W., assignor.)
- Scientific Heater Company, The. (See Kuenhold, Otto J., assignor.)
- Scientific Materials Company. (See Fisher, Edwin H., assignor.)
- Scientific Specialty Company, The. (See Stewart, Alexander T., assignor.)
- Scintilla. (See Schneider, J., Hürlimann, and Billon, assignors.)
- "Scintilla." (See Billon, F., and Bohli, assignors.)
- Scintilla, Firm. (See Billon, Frédéric, assignor.)
- Scisinger, Harry A., and E. W. Adams, Chicago, Ill. Heater. No. 1,366,840; Jan. 25; v. 282; p. 671.
- Scobel, Benjamin, New York, N. Y. Solidifying China-wood oil and the product thereof. No. 1,383,864; July 5; v. 288; p. 126.
- Scotfield, Edgar, New York, assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Crank-shaft. No. 1,399,806; Dec. 13.
- Scotfield, George W. (See Ryals, Jesse H., assignor.)
- Scotfield, Sherman W., Cleveland, Ohio. Safety device for presses. No. 1,370,369; Mar. 1; v. 284; p. 116.
- Scoggan, Richard R., Jeffersonville, Ind., assignor to Ky. Switch & Signal Co., Inc., St. Matthews, Ky. Ground-box. No. 1,377,029; May 3; v. 286; p. 124.
- Scoggan, Richard R., Jeffersonville, Ind., assignor to Kentucky Switch & Signal Co., Inc., St. Matthews, Ky. Automatic electrically-controlled track-switch. No. 1,395,872; Nov. 1.
- Scoggan, Richard R., Jeffersonville, Ind., assignor to Kentucky Switch & Signal Co., Inc., St. Matthews, Ky. Trolley-wire contactor. No. 1,395,873; Nov. 1.
- Scoby, John R., Okmulgee, Okla. Glass-drawing apparatus. No. 1,372,044; Mar. 22; v. 284; p. 603.
- Scolding Locks Hairpin Co. (See Smith, Homer P., assignor.)
- Scollan, John J., Newark, N. J. Releasing device for launching-cradles. No. 1,394,223; Oct. 18.
- Scollard, Thomas F., Warsaw, Ind. Rotary valve. No. 1,389,536; Aug. 30; v. 289; p. 944.
- Scoppola, Giorgio, Rome, Italy. Plug-socket. No. 1,374,838; Apr. 5; v. 285; p. 89.
- Score, Louis. (See Ross, R., and Score.)
- Scotcher, Charles A., Braintree Highlands, assignor to The A. O. Crawford Co., Inc., South Weymouth, Mass. Collapsible box. No. 1,374,473; Apr. 12; v. 285; p. 253.
- Scott, Alexander N., assignor to The Diebold Safe & Lock Company, Canton, Ohio. Safe. No. 1,381,935; June 21; v. 287; p. 418.
- Scott, Allen C., Omaha, Nebr. Aviator's parachute and pack. No. 1,378,382; May 17; v. 286; p. 491.
- Scott, Annie, West Kensington, London, England. Valve-gear for internal-combustion engines. No. 1,383,163; June 28; v. 287; p. 704.



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- Scott, Bateman D., Sale, assignor to The Gresham Finance Corporation, Limited, London, England. Connecting-rod of radial-cylinder engines. No. 1,867,720; Feb. 8; v. 283; p. 223.
- Scott, Berlie H. (See Lockwood, N. F., Scott, and Royal.)
- Scott, Charles F., New Haven, Conn., assignor to Westinghouse Electric and Manufacturing Company. Railway signaling system. No. 1,396,888; Nov. 15.
- Scott, Charles R., Wyandotte, Okla. Transmission-gearing. No. 1,380,599; June 7; v. 287; p. 52.
- Scott, Charles S. (See Gittle, H. R., and Scott.)
- Scott, Charles S., Chicago, Ill. Vending-machine. No. 1,397,549; Nov. 22.
- Scott, Daniel S., Baltimore, Md. Boring and routing machine. No. 1,368,680; Jan. 25; v. 282; p. 639.
- Scott, David J., *et al.*, executors. (See Drange, Carl E., assignor.)
- Scott, Douglas E., Boston, assignor to Arthur D. Little, Incorporated, Cambridge, Mass. Isolating fiber from bagasse. No. 1,399,891; Dec. 13.
- Scott, Edward M., Oberlin, Ohio. Jack for motor-driven vehicles. No. 1,382,250; June 21; v. 287; p. 476.
- Scott, Ephraim J. (See Bowen, Eugene F., assignor.)
- Scott, Ernest K. (See Hottelsater, H. C., and Scott.)
- Scott, Frank G., Tulsa, Okla. Ice-cream freezer. No. 1,369,053; Feb. 22; v. 283; p. 568.
- Scott, Frank S., Heyburn, Idaho. Shoe-shining stand. No. 1,388,768; Aug. 23; v. 289; p. 736.
- Scott, Floyd L., Houston, Tex. Pump. No. 1,371,983; Mar. 15; v. 284; p. 534.
- Scott, Floyd L., Houston, Tex. Lubricator. No. 1,373,026; Mar. 29; v. 284; p. 835.
- Scott, George. (See Chicken, C. B., and Scott.)
- Scott, G. H., Machine Company. (See Hafemeister, William C., assignor.)
- Scott, George H. (See McCampbell, R. F., Scott, and Smith.)
- Scott, George L., Shawnee, Okla. Car-brake. No. 1,397,059; Nov. 15.
- Scott, George W., Cleveland, Ohio. Curtain-support for automobiles. No. 1,391,417; Sept. 20; v. 290; p. 529.
- Scott, George W., Cleveland, Ohio. Curtain-support. No. 1,391,418; Sept. 20; v. 290; p. 529.
- Scott, George W., Santa Rosa, Calif. Quick-detachable dust-cap. No. 1,399,405; Dec. 6.
- Scott, Guy E., Delhi, Minn. Shovel-scraper. No. 1,398,082; Nov. 22.
- Scott, H. P., and W. G. Bond, Wilmington, Del. Purifying air. No. 1,379,221; May 24; v. 286; p. 724.
- Scott, Harry E., assignor to The Brown Hoisting Machinery Company, Cleveland, Ohio. Means for braking cranes. No. 1,396,532; Nov. 8.
- Scott, Harvey E. (See Cannon, C. A., and Scott.)
- Scott, Henry L., Providence, R. I. Testing-machine. No. 1,372,093; Mar. 22; v. 284; p. 612.
- Scott, Henry T., Wichita Falls, Tex. Pumping-jack. No. 1,384,688; July 12; v. 288; p. 336.
- Scott, Isabella, *et al.*, executors. (See Drange, Carl E., assignor.)
- Scott, James E., Louisville, Ky. Railway-brake. No. 1,374,034; Apr. 5; v. 285; p. 127.
- Scott, James H., and J. D. Whitcomb, Long Beach, Calif. Invalid-exerciser and baby-walker. No. 1,384,215; July 12; v. 288; p. 247.
- Scott, Jennie, St. Paul, Minn. Protecting-shield for use in baking pastry. No. 1,375,539; Apr. 19; v. 285; p. 520.
- Scott, Joe. (See Clark, Alfred C., assignor.)
- Scott, John A., St. Louis, Mo. Can puncturing and sealing device. No. 1,370,921; Mar. 8; v. 284; p. 266.
- Scott, John E., Lynn, Mass., assignor to Hamel Shoe Machinery Company. Machine for turning shoes. No. 1,395,741; Nov. 1.
- Scott, John M., St. Petersburg, Fla. Bumping-post. No. 1,387,561; Aug. 16; v. 289; p. 441.
- Scott, John W., Englewood, N. J., assignor to Arbuckle Brothers, New York, N. Y. Producing soluble concentrated coffee. No. 1,393,045; Oct. 11.
- Scott, Lewis L., assignor to Standard Engineering Company, St. Louis, Mo. Steam-generating system. No. 1,385,845; July 26; v. 288; p. 740.
- Scott, Milton D., Kewanee, Ill. Rolling crutch. No. 1,394,224; Oct. 18.
- Scott, Nathaniel G., New Orleans, La. Cluster-pile. No. 1,365,197; Jan. 11; v. 282; p. 265.
- Scott, Nathaniel G., New Orleans, La. Drift-fender and dyke. No. 1,371,119; Mar. 8; v. 284; p. 304.
- Scott, Nathaniel G., New Orleans, La. Pile-driver. No. 1,375,738; Apr. 26; v. 285; p. 590.
- Scott, Nell R., Albany, Oreg. Hook-and-eye fastener. No. 1,378,286; May 17; v. 286; p. 473.
- Scott, Oliver L., assignor to Rotary Gas Engine Co., San Francisco, Calif. Rotary internal-combustion engine. No. 1,368,359; Feb. 15; v. 283; p. 394.
- Scott, Oliver P., Tacoma, Wash. Electric hot-air heater. No. 1,389,165; Aug. 30; v. 289; p. 870.
- Scott, Oliver P., Tacoma, Wash. Water-heater. No. 1,389,166; Aug. 30; v. 289; p. 870.
- Scott, Oliver P., Tacoma, Wash. Electric side-wall heater. No. 1,401,447; Dec. 27.
- Scott, Oliver P., Tacoma, Wash. Electric heater. No. 1,401,500; Dec. 27.
- Scott-Paine, Hubert, Southampton, England. Tail-plane and the like for aircraft. No. 1,375,421; Apr. 19; v. 285; p. 498.
- Scott-Paine, Hubert, Southampton, England. Construction of bodies of flying-boats and like light vessels. No. 1,393,645; Oct. 11.
- Scott Paper Company. (See Parsons, Philip D., assignor.)
- Scott Player Action Co. *et al.* (See Lauda, Joseph F., assignor.)
- Scott Player Action Co. *et al.* (See Scott, Ray W., assignor.)
- Scott, Quincy D., Columbus, Ohio. Arch-support. No. 1,372,094; Mar. 22; v. 284; p. 612.
- Scott, Ray W., New York, N. Y., assignor of two-fifths to Scott Player Action Co., Racine, Wis., and three-fifths to The Northern Trust Company, Chicago, Ill., trustee. Pumping system for player-pianos. No. 1,389,322; Aug. 30; v. 289; p. 901.
- Scott, Ray W., New York, N. Y., assignor of two-fifths to Scott Player Action Co., Racine, Wis., and three-fifths to The Northern Trust Company, Chicago, Ill., trustee. Pumping system for player-pianos. No. 1,389,323; Aug. 30; v. 289; p. 901.
- Scott, Reid B., Naugatuck, Conn., assignor to The Good-year's Metallic Rubber Shoe Company. Lasting-jack. No. 1,389,846; Sept. 6; v. 290; p. 58.
- Scott, Richard C., Chicago, Ill. Foldable socket-wrench. No. 1,390,463; Sept. 13; v. 290; p. 272.
- Scott, Robert W., Babylon, N. Y. Device for machine-knitting with auxiliary yarns. No. 1,370,490; Mar. 1; v. 284; p. 139.
- Scott, Robert W., Babylon, assignor to Scott and Williams, Incorporated, New York, N. Y. Knitting-machine. No. 1,373,358; Mar. 29; v. 284; p. 901.
- Scott, Robert W., Babylon, N. Y., assignor to Scott & Williams, Incorporated. Yarn feeding and severing mechanism for knitting-machines. No. 1,373,676; Apr. 5; v. 285; p. 57.
- Scott, Robert W., Boston, Mass., assignor, by mesne assignments, to Scott & Williams, Incorporated. Knitting reinforced fabrics. No. 1,373,769; Apr. 5; v. 285; p. 75.
- Scott, Robert W., New York, N. Y., assignor, by mesne assignments, to Scott & Williams, Incorporated. Mechanism for knitting reinforced fabrics. No. 1,373,770; Apr. 5; v. 285; p. 75.
- Scott, Robert W., Babylon, N. Y. Knitting-machine needle. No. 1,388,929; July 26; v. 288; p. 756.
- Scott, Rossiter S., Baltimore, Md. Household-incinerator. No. 1,364,456; Jan. 4; v. 282; p. 80.
- Scott, Sibil A., New York, N. Y. Block-pack. No. 1,394,363; Oct. 18.
- Scott, T., and J. B. Cleland, Montreal, Quebec, Canada, assignors to United Shoe Machinery Corporation, Paterson, N. J. Work-supporting mechanism. No. 1,365,792; Jan. 18; v. 282; p. 421.
- Scott, Thomas. (See Fritts, Francis M., assignor.)
- Scott, Thomas T., Youngstown, Ohio. Machine for repairing the linings of furnaces. No. 1,390,930; Sept. 13; v. 290; p. 368.
- Scott, Walter, Sheridan, Wyo. Tone-modifier for phonographs. No. 1,394,646; Oct. 25.
- Scott, Walter, Lakewood, Ohio. Portable driving mechanism for talking-machines and the like. No. 1,394,763; Oct. 25.
- Scott, Walter A. (See Dosenbach, B. H., and Scott.)
- Scott, Walter A., River Forest, Ill. Ore-concentration process. No. 1,365,281; Jan. 11; v. 282; p. 282.
- Scott, Walter A., Oak Park, Ill. Ore-concentrating process. No. 1,369,054; Feb. 22; v. 283; p. 568.
- Scott, Walter A., Chicago, Ill., assignor to Mineral Separation North American Corporation. Ore-concentration process. No. 1,375,233; Apr. 19; v. 285; p. 462.
- Scott, Walter B., Marblehead, Mass. Toy. No. 1,396,289; Nov. 8.
- Scott, Walter V. (See Sprague, Sidney, assignor.)
- Scott, Walter W., Amsterdam, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Strip cutting and sewing mechanism. No. 1,365,282; Jan. 11; v. 282; p. 283.
- Scott, Walter W., Amsterdam, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Fabric-guiding device for sewing-machines. No. 1,399,406; Dec. 6.
- Scott, William, Keighley, England. Let-off mechanism for looms. No. 1,365,283; Jan. 11; v. 282; p. 283.
- Scott, William, Jacksonville, Fla., assignor of one-sixth to J. B. Goldsmith and one-sixth to J. Shamsky, St. Louis, Mo. Combined auto jack and safety-brake. No. 1,370,491; Mar. 1; v. 284; p. 140.
- Scott, William, Loches, Dundee, Scotland. Sack-feeder. No. 1,385,930; July 26; v. 288; p. 756.
- Scott, William, St. Louis, Mo. Combined auto jack and safety device. No. 1,397,185; Nov. 15.
- Scott, William A., Portland, Oreg. Phonograph sound-board. No. 1,369,845; Mar. 1; v. 284; p. 17.
- Scott, William H., and J. Bentley, Norwich, England. System of control for electric motors operating cranes and analogous apparatus. No. 1,399,664; Dec. 6.
- Scott, William M., Tredyffrin township, Chester county, Pa. Switching apparatus. No. 1,385,430; July 5; v. 288; p. 36.



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- Scott, William M., Tredyffrin township, Chester county, Pa. Switching apparatus. No. 1,389,996; Sept. 6; v. 290; p. 88.
- Scott and Williams. (See Page, Albert E., assignor.)
- Scott & Williams. (See Scott, Robert W., assignor.)
- Scott, Wilfred W., Grantwood, N. J., assignor, by mesne assignments, to Atmospheric Nitrogen Corporation, New York, N. Y. Catalyst for and producing oxide of nitrogen. No. 1,399,807; Dec. 13.
- Scott, Wilson A., Murray, Nebr. Animal-trap. No. 1,372,561; Mar. 22; v. 284; p. 702.
- Scougale, Malcolm, Weatherford, Tex. Pencil-sharpener. No. 1,372,562; Mar. 22; v. 284; p. 702.
- Scoville, Frank F., Schenectady, N. Y. Valve-operating lever. No. 1,366,502; Jan. 25; v. 282; p. 603.
- Scovill, James P., Troy, N. Y., assignor, by mesne assignments, to Tolhurst Machine Works. Tobacco-stemming machine. No. 1,388,487; Aug. 23; v. 289; p. 682.
- Scovill Manufacturing Co. (See Bagg, Hollis B., assignor.)
- Scovill Manufacturing Company. (See Ferrine, George H., assignor.)
- Scoville, Frank F., Schenectady, N. Y. Valve-operating lever. No. 1,382,020; June 21; v. 287; p. 433.
- Scozafava, Fred G., Gouverneur, N. Y. Pivot support and retainer for automobile-hoods. No. 1,383,768; July 5; v. 288; p. 106.
- Scrabie, Carl, Urbana, Ohio. Sound-box mounting. No. 1,391,797; Sept. 2; v. 290; p. 678.
- Seranton Glass Instrument Company. (See Amerman, Ralph A., assignor.)
- Seranton, Henry O., Jeanerette, La. Cane harvesting and windrowing machine. No. 1,365,955; Jan. 18; v. 282; p. 453.
- Seranton, William F., Washington, D. C. Receptacle for adding-machines, typewriters, desks, and the like. No. 1,383,032; June 28; v. 287; p. 679.
- Scribner, Edward H., Beachmont, and H. A. Bell, Revere, Mass., assignors to Revere Rubber Company. Machine for applying plastic material to fabric. No. 1,364,211; Jan. 4; v. 282; p. 32.
- Scribner, William L., assignor of one-half to R. T. Dawson, Toledo, Ohio. Roller-bearing. No. 1,397,297; Nov. 15.
- Scrimger, Franklin C. (See Lewis, T., and Scrimger.)
- Scrivani, Benedict, Camden, N. J. Harmony-box for talking-machines. No. 1,373,677; Apr. 5; v. 285; p. 57.
- Scriven, Edward O., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube apparatus. No. 1,375,739; Apr. 26; v. 285; p. 590.
- Scriven, Edward O., assignor to Western Electric Company, Incorporated, New York, N. Y. System for transmission of intelligence. No. 1,396,786; Nov. 15.
- Scrivenor, Arthur, Richmond, Va. Grinding-machine. No. 1,382,747; June 28; v. 287; p. 625.
- Scroeder's Son, A., Incorporated. (See Myers, Eugene E., assignor.)
- Serogins, Allen C., Jr., et al. (See Dungan, John E., assignor.)
- Scudder, Frederick J. (See Stearn, F. A., and Scudder.)
- Scullin Steel Co. (See Doerr, Harry E., assignor.)
- Scully, John J., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Sound-box. No. 1,377,632; May 10; v. 286; p. 295.
- Scully, John J., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Electric switch for phonographs. No. 1,401,652; Dec. 27.
- Scully, Thomas E., and H. Lyon, Los Angeles, Calif. Double take-up spring for needle-bars on sewing-machines. No. 1,370,228; Mar. 1; v. 284; p. 90.
- Scully, William, trustee. (See Schwarz, Alfred, assignor.)
- Scully, William J., Newport, Ky. Stenographer's rapid recorder. No. 1,388,769; Aug. 23; v. 287; p. 736.
- Scutt, Lewis W., Cleveland, Ohio. Umbrella-marker. No. 1,369,846; Mar. 1; v. 284; p. 18.
- Sea, Philip N., Chicago, Ill. Calculating-machine. No. 1,381,851; June 14; v. 287; p. 342.
- Sea, Philip N., Chicago, Ill. Filing device. No. 1,381,937; June 21; v. 287; p. 418.
- Seaborn, Charles C., Portland, Oreg. Dental handpiece. No. 1,379,880; May 3; v. 286; p. 922.
- Seaborn, Charles C., Portland, Oreg. Portable power-operated tool-holder. No. 1,400,774; Dec. 20.
- Seabury, Ralph L., Toledo, Ohio. Producing electrical conductors. No. 1,379,366; May 24; v. 286; p. 752.
- Seal, Theodore T., Wheeling, W. Va., assignor of one-half to W. O. Houston, Bellaire, Ohio. Combined thread holder and cutter. No. 1,377,284; May 10; v. 286; p. 229.
- Seale, Harry V. (See Palmer, T. H., Seale, and Nevett.)
- Sealright Co., Inc. (See Bond, Joseph T., assignor.)
- Sealright Co., Inc. (See Howe, Harold C., assignor.)
- Sealright Co. (See Janisch, Maximilian P., assignor.)
- Seals, Rufus K., California, Pa. Angular measuring instrument. No. 1,390,821; Sept. 13; v. 290; p. 345.
- Seaman, Duncan R. (See Ryan, John H., assignor.)
- Seaman, Earnest S. (See Wilson, E. M., and Seaman.)
- Seaman, Halleck W. (See Crawford, Albert G., assignor.)
- Seaman, Lloyd M., Stoneharbor, N. J. Concrete construction. No. 1,366,029; Jan. 18; v. 282; p. 467.
- Seaman, Robert G., Summerhill, Pa. Water-arch for the furnaces of steam-boilers. No. 1,397,460; Nov. 15.
- Seaman, Stewart E., New York, N. Y. Pigment carbon derived from vegetable pith. No. 1,379,222; May 24; v. 286; p. 724.
- Seanon, George L., Sapulpa, Okla., assignor of one-half to A. S. Abbott, Springfield, Mo. Convertible stock-car. No. 1,380,845; June 7; v. 287; p. 100.
- Search, Charles E., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Drawbar. No. 1,385,721; July 26; v. 288; p. 715.
- Searcy, C. M. (See Gates, John W., assignor.)
- Searcy, Peter B., Smithville, Tex. Can-opener. No. 1,377,285; May 10; v. 286; p. 229.
- Searing, Eugene P., Hawthorne, N. J. Belt-drives for textile-winders. No. 1,376,465; May 3; v. 286; p. 17.
- Searle, Alexander H., and O. Duryea, Brooklyn, N. Y. Apparatus for forming bucket-bodies. No. 1,375,937; Apr. 26; v. 285; p. 628.
- Searle, Elbert H., Bridgeport, Conn. Reloading mechanism for magazine-firearms. No. 1,382,680; June 28; v. 287; p. 612.
- Searle, Elbert H., Bridgeport, Conn. Firing mechanism. No. 1,393,912; Oct. 18.
- Searle, Elbert H., Grimes, Calif. Breech-loading firearm. No. 1,395,455; Nov. 1.
- Searle, Ephraim F., Lawrence, Mass. Apparatus for facilitating the cutting of recesses in walls. No. 1,392,360; Oct. 4.
- Searle, Harry A., Council Bluffs, Iowa. Grease-drum. No. 1,377,285; May 10; v. 286; p. 229.
- Searle, Henry C., West Roxbury, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Buttonhole-sewing machine. No. 1,388,313; Aug. 23; v. 289; p. 647.
- Searles, Daniel, trustee. (See Pilliod, Charles J., assignor.)
- Searles, Edwin A., Detroit, Mich. Treating cylinders. No. 1,368,765; Feb. 15; v. 283; p. 473.
- Searles, Herbert N., Oyster Bay, N. Y. Cooling radiator. No. 1,365,793; Jan. 18; v. 282; p. 421.
- Searles, Herbert N., Oyster Bay, N. Y. Cooling radiators. No. 1,401,662; Dec. 27.
- Searles, Raymond R., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-bearing. No. 1,375,112; Apr. 19; v. 285; p. 439.
- Sears, Roebuck and Co. (See Lords, Thaddeus J., assignor.)
- Sears, Roebuck and Co. (See Miller, A. C., and Perry, assignors.)
- Sears, Roebuck and Company. (See Drake, James C., assignor.)
- Sears, Roebuck and Company. (See Hoffman, Rudolph, assignor.)
- Sears, Joseph M., Lockport, Tex. Automobile attachment. No. 1,389,847; Sept. 6; v. 290; p. 53.
- Sears, Willard T., Brooklyn, assignor to Niles-Bement-Pond Company, New York, N. Y. Radial drilling-machine. No. 1,365,009; Jan. 11; v. 282; p. 230.
- Sears, Willard T., Brooklyn, assignor to Niles-Bement-Pond Company, New York, N. Y. Drilling-machine. No. 1,368,294; Feb. 15; v. 283; p. 381.
- Sears, Willard T., assignor to Niles-Bement-Pond Company, New York, N. Y. Drive mechanism for drilling-machines. No. 1,368,295; Feb. 15; v. 283; p. 381.
- Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Drilling-machine. No. 1,372,252; Mar. 22; v. 284; p. 643.
- Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Drill-table mechanism. No. 1,376,168; Apr. 26; v. 285; p. 672.
- Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Supporting and clamping mechanism for drilling-machines. No. 1,376,169; Apr. 26; v. 285; p. 672.
- Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Gear-cutter. No. 1,392,361; Oct. 4.
- Seaton, Benjamin C., Nashville, Tenn. Pneumatic tire. No. 1,374,957; Apr. 19; v. 285; p. 408.
- Seaton, Max Y., assignor to The Dow Chemical Company, Midland, Mich. Cellulose-ester solvent and resulting cellulosic composition. No. 1,397,986; Nov. 22.
- Seaton, Strowbridge B., assignor to International Tag Co., Chicago, Ill. Shipping-tag. No. 1,373,916; Apr. 5; v. 285; p. 105.
- Seaton, William G., Knoxville, Tenn. Automatic draft-regulator. No. 1,372,563; Mar. 22; v. 284; p. 702.
- Seaton, William G., Knoxville, Tenn. Pencil-container. No. 1,377,097; May 3; v. 286; p. 137.
- Seator, Robert J., assignor of one-half to H. Matthews, Battle Creek, Mich. Motor for regulators. No. 1,378,625; May 17; v. 286; p. 538.
- Seattle-Astoria Iron Works. (See Troyer, Nelson, assignor.)
- Seattle Patent Holding Corporation. (See Starr, Charles E., assignor.)
- Sebestakowicz, Feliks, McKeesport, Pa. Fire-escape. No. 1,392,660; Oct. 4.
- Sebeto, John, Brooklyn, N. Y. Bathing-boat. No. 1,388,003; Aug. 16; v. 289; p. 528.
- Sebree, Charles H., and G. C. Berlin, Caldwell, Idaho. Deflation-alarm for tires. No. 1,394,364; Oct. 18.
- Sechler, D. M., Implement & Carriage Company. (See Criner, Harry J., assignor.)



## Alphabetical list of patentees—Continued.

- Sechler, D. M., Implement & Carriage Company. (See Englund, Ernest E., assignor.)  
 Sechler, D. M., Implement & Carriage Company. (See Hartsock, Sherman C., assignor.)  
 Sechler, William N., Fort Scott, Kans. Arch-support. No. 1,391,584; Sept. 20; v. 290; p. 563.  
 Sechrist, Albert, Denver, Colo. Combined pan-handle and pan-support. No. 1,395,301; Nov. 1.  
 Secker, Maurice E. S., London, England. Wire-bound box. No. 1,382,323; June 21; v. 287; p. 489.  
 Secord, Frank H., *et al.* (See Cozens, George H., assignor.)  
 Secord, William L., Handsworth, Birmingham, England. Machine and other vise and like work holding or setting appliance. No. 1,372,661; Mar. 22; v. 284; p. 721.  
 Secrest, Arthur F., Wichita, Kans. Garment. No. 1,383,491; July 5; v. 288. p. 48.  
 Secretary of War of the United States of America. (See Flam, John, assignor.)  
 Secretary of War, trustee. (See Ragsdale, Earl J. W., assignor.)  
 Secretary of War, trustee. (See Weed, Lowrey A., assignor.)  
 Security Auto Lock Co. (See Gray, A. J., and Hebern, assignors.)  
 Security Auto Lock Co. (See Hebern, W., and Gray, assignors.)  
 Security Auto Lock Co. (See Sells, L. M., and Hebern, assignors.)  
 Security Tool Works, The. (See Lindgren, Waldemar L., assignor.)  
 Seder, Frank, Winehaven, Calif. Drill-puller. No. 1,365,857; Jan. 18; v. 282; p. 424.  
 Seder, Frank, San Francisco, Calif. Cuspidor. No. 1,398,118; Nov. 22.  
 Sedgewick, Russell G., Toronto, Ontario, Canada. Valve-grinder. No. 1,372,045; Mar. 22; v. 284; p. 603.  
 Sedgwick, Harry A., and P. J. Sheehan, Milwaukee, Wis. Electroplating-machine. No. 1,367,567; Feb. 8; v. 283; p. 194.  
 Sedgwick, Stanley W., Edmonton, Alberta, Canada. Fluid-conducting structure. No. 1,389,997; Sept. 6; v. 290; p. 88.  
 Seeck, Ferdinand W., Lebanon, Oreg. Gearless differential power transmission. No. 1,388,069; Aug. 16; v. 289; p. 541.  
 Seed, William E., Preston, England. Unwinding device. No. 1,393,705; Oct. 11.  
 Seede, John A., Schenectady, N. Y., assignor to General Electric Company. Stationary induction apparatus. No. 1,397,298; Nov. 15.  
 Seeger, Carl H., Manitowoc, Wis. Saliva-ejector. No. 1,388,312; Aug. 23; v. 289; p. 647.  
 Seeger, Robert, St. Louis, Mo., assignor to New Process Oil Company. Apparatus for treating hydrocarbon oils. No. 1,394,688; Oct. 25.  
 Seegmueller, Paul C. (See Brown, W. E., and Seegmueller.)  
 Seehaas, Anthony L. J., Peoria, Ill. Machine for cutting and printing at one operation. No. 1,372,201; Mar. 22; v. 284; p. 633.  
 Seek, James H., Philadelphia, Pa. Supplemental air-intake device for gas-engines. No. 1,393,172; Oct. 11.  
 Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-nitrate composition. No. 1,379,596; May 24; v. 286; p. 795.  
 Seel, Paul C., assignor to Eastman Kodak Company, Rochester, N. Y. Dehydrating nitro-cellulose and reducing the fire risk thereof. No. 1,398,911; Nov. 29.  
 Seel, Paul C., H. Combs, and R. Kemp, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic film. No. 1,370,922; Mar. 8; v. 284; p. 266.  
 Seel, Paul C., H. Combs, and R. Kemp, assignors to Eastman Kodak Company, Rochester, N. Y. Cellulose-nitrate composition and sheet. No. 1,380,258; May 31; v. 286; p. 993.  
 Seeley, Arthur H., assignor to E. R. Seeley, Chicago, Ill. Moving-picture machine. No. 1,383,571; July 5; v. 288; p. 65.  
 Seeley, Edgar R. (See Seeley, Arthur H., assignor.)  
 Seelig, Bernard, assignor of one-half to E. Roth, New York, N. Y. Scraper attachment. No. 1,390,168; Sept. 6; v. 290; p. 123.  
 Seelman, John J., Milwaukee, Wis. Withdrawing fluids from sealed containers without contamination. No. 1,392,454; Oct. 4.  
 Seely, Frank H., Oakland, Calif. Calculating device. No. 1,383,492; July 5; v. 288; p. 49.  
 Seely, Thomas H. (See Hadaway, J. B., and Seely.)  
 Seely, Thomas H., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,372,782; Mar. 29; v. 284; p. 786.  
 Seely, Thomas H., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Forming apparatus. No. 1,375,802; Apr. 26; v. 285; p. 602.  
 Seely, Thomas H., Malden, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Thread gripping and cutting device for shoe-sewing machines. No. 1,396,066; Nov. 8.  
 Seely, Thomas H., Malden, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,399,892; Dec. 13.  
 Seemann, George M. (See Ackerland, Joseph, assignor.)  
 Seemann, Jacob J., assignor to Utica Heater Company, Utica, N. Y. Heater-casing construction. No. 1,379,051; May 24; v. 286; p. 692.  
 Seery, Peter H., Newark, N. J. Umbrella-rib. No. 1,381,350; June 14; v. 287; p. 247.  
 Sees-All Manufacturing Co. (See Rees, Frank W., assignor.)  
 Seese, Samuel R., Vanderbilt, Pa. License-certificate-display case. No. 1,392,661; Oct. 4.  
 Seese, Samuel R., Vanderbilt, assignor to H. M. Kephart, Connelville, Pa. Display-case for license-certificates. No. 1,395,999; Nov. 1.  
 Sečik, Francis, Granger, Tex. Burglar-alarm. No. 1,371,120; Mar. 8; v. 284; p. 304.  
 Segal, Isaac, New York, N. Y. Fabric-laying apparatus. No. 1,389,906; Sept. 6; v. 290; p. 70.  
 Segal Metal Products Company. (See Segal, Samuel, assignor.)  
 Segal, Nathan. (See Smiler, J. M., Segal, Chaite, and Rudin.)  
 Segal, Samuel, New York, N. Y. Toothbrush. No. 1,382,681; June 28; v. 287; p. 612.  
 Segal, Samuel, New York, N. Y. Padlock. No. 1,387,187; Aug. 9; v. 289; p. 315.  
 Segal, Samuel, assignor to Segal Metal Products Company, Inc., New York, N. Y. Lock. No. 1,392,707; Oct. 4.  
 Segal, Samuel, assignor to Segal Metal Products Company, Inc., New York, N. Y. Lock. No. 1,399,158; Dec. 6.  
 Segal, Samuel, assignor to Segal Metal Products Company, Inc., New York, N. Y. Cylinder-lock. No. 1,399,159; Dec. 6.  
 Segar, John M., Liverpool, England. Griller. No. 1,398,157; Nov. 22.  
 Segelhorst, August L., Whittier, Calif. Multiple-bit underreamer. No. 1,397,114; Nov. 15.  
 Segelhorst, William F., *et al.* (See Recktenwald, John, assignor.)  
 Segler, Albert H., Chicago, Ill. Chuck. No. 1,391,908; Sept. 27; v. 290; p. 701.  
 Segsneider, Gustav, Yonkers, N. Y. Bread-slicing machine. No. 1,396,290; Nov. 8.  
 Seguin, Laurent, assignor to Societe des Moteurs Gnome et Rhone, Paris, France. Connecting-rod arrangement for star-shaped motors. No. 1,401,284; Dec. 27.  
 Seguin, Laurent, assignor to Societe des Moteurs Gnome et Rhone, Paris, France. Connecting-rod head for rotative motors. No. 1,401,285; Dec. 27.  
 Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,375,113; Apr. 19; v. 285; p. 439.  
 Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,378,486; May 17; v. 286; p. 511.  
 Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,391,798; Sept. 27; v. 290; p. 678.  
 Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,392,362; Oct. 4.  
 Seibert, Albert E., Frankfort, Mich. Extension-step. No. 1,394,865; Oct. 18.  
 Seibert, Arthur D. (See Akers, M. L., and Seibert.)  
 Seibert, Charles K. (See Penter, Eli E., assignor.)  
 Seibert, George F., *et al.* (See Minnick, William H., assignor.)  
 Seibert, Julius J., V., and W., McKeesport, Pa. Hoisting attachment for auto-trucks. No. 1,379,652; May 31; v. 286; p. 880.  
 Seibert, Victor. (See Seibert, Julius J., V., and W.)  
 Seibert, William. (See Seibert, Julius J., V., and W.)  
 Seibold, Raymond W., Camp Douglas, Wis. Game. No. 1,392,662; Oct. 4.  
 Seiders, Hiester, Reading, Pa. Power-transmission device. No. 1,400,185; Dec. 13.  
 Seidler, Alexander, assignor to F. C. Austin, Chicago, Ill. Oil-gas-making apparatus. No. 1,394,446; Oct. 18.  
 Seifert, Henry R., Ellsworth, Wis. Piston-ring. No. 1,369,362; Feb. 22; v. 283; p. 628.  
 Seifert, John W., Houston, Tex. Washing-machine. No. 1,373,917; Apr. 5; v. 285; p. 105.  
 Seifert, John W., Houston, Tex. Washing-machine. No. 1,374,958; Apr. 19; v. 285; p. 408.  
 Seifert, Martin W., Murray, Utah. Sleigh-brake. No. 1,392,229; Sept. 27; v. 290; p. 766.  
 Seifried, Clarence K., Grayville, Ill. Harrow. No. 1,390,169; Sept. 6; v. 290; p. 123.  
 Seifert, William V., Denver, Colo. Well-digger. No. 1,388,314; Aug. 23; v. 289; p. 648.  
 Seigle, William R., New York, N. Y. Machine for making pulp tubes. No. 1,395,742; Nov. 1.  
 Seigle, William R., New York, N. Y. Brake or clutch band lining. No. 1,395,743; Nov. 1.  
 Seigle, William R., New York, N. Y. Impregnating porous or fibuluous materials and the product thereof. No. 1,395,744; Nov. 1.  
 Seigle, William R., New York, N. Y. Forming tubes of felted fibrous material. No. 1,399,087; Dec. 6.  
 Seignol, Edouard, Neuilly, France. Indicating device. No. 1,391,279; Sept. 20; v. 290; p. 501.



*Alphabetical list of patentees—Continued.*

- Seignol, Edouard, Neuilly-sur-Seine, France. Coupling-chain. No. 1,401,194; Dec. 27.
- Seller, Josef, Liegnitz, Germany. Expandable circular table. No. 1,384,925; July 19; v. 288; p. 475.
- Seller, William. (See Hammond, Charles L., assignor.)
- Seimille, Louis E., Paris, France. Electric water-heater. No. 1,383,033; June 28; v. 287; p. 680.
- Seimille, Louis E., Paris, France. Electric water-heater. No. 1,383,034; June 28; v. 287; p. 680.
- Seinecke, Adolph E., Cincinnati, Ohio. Automobile-lock. No. 1,364,955; Jan. 11; v. 282; p. 219.
- Seinecke, Adolph E., Cincinnati, Ohio. Ticket-case. No. 1,373,359; Mar. 29; v. 284; p. 901.
- Seiss, George J., Toledo, Ohio. Mechanically-actuated horn. No. 1,382,390; June 21; v. 287; p. 503.
- Seiser, Joseph P. (See Maxwell, J. V., and Seiser.)
- Seiter, Albert J., Prospect, Ohio. Roller-tractor. No. 1,375,185; Apr. 19; v. 285; p. 453.
- Seitz, Milton H., Akron, Ohio. Playground-marker. No. 1,380,600; June 7; v. 287; p. 52.
- Seivour, George A., Detroit, Mich. Screen for sand, gravel, &c. No. 1,400,697; Dec. 20.
- Seiwald, Mike, Eudora, Kans. Shoe. No. 1,388,070; Aug. 16; v. 289; p. 541.
- Sejnoha, Richard, Wolsey, S. D. Folding and extension stool or chair. No. 1,379,129; May 24; v. 286; p. 707.
- Sekula, Andrew, Washington, Pa. Toy gun. No. 1,374,242; Apr. 12; v. 285; p. 208.
- Selby, Wilber J. (See Gilbert, J., and Perkins, assignors.)
- Selden, Arthur R., Rochester, N. Y. Loose-leaf binder. No. 1,398,306; Nov. 29.
- Seldomridge, Harry, Clinton, Ind. Suspending device for tools and the like. No. 1,392,530; Oct. 4.
- Self Bailing Life Boat Company, The. (See Torgersen, Bernt E., assignor.)
- Self-Seating Valve Company. (See Washburne, William H., assignor.)
- Selinger - Balzer, Joseph, Obersteinmaur, Switzerland. Climbing-iron. No. 1,395,234; Oct. 25.
- Selk, Gustav J., Bend, Oreg. Automatic safety - stop for steam-engines. No. 1,381,756; June 14; v. 287; p. 324.
- Sell, Frank A., Portland, Oreg. Waffle-machine. No. 1,395,930; Nov. 1.
- Sell, George W., Portland, Oreg. Resilient automobile-tire. No. 1,368,198; Feb. 8; v. 283; p. 314.
- Sell, George W., Portland, Oreg. Automobile-wheel. No. 1,368,199; Feb. 8; v. 283; p. 315.
- Sell, George W., Portland, Oreg. Resilient tire for automobile-trucks. No. 1,368,200; Feb. 8; v. 283; p. 315.
- Sellars, William J., Wellington, New Zealand. Heel for footwear. No. 1,366,601; Jan. 25; v. 282; p. 624.
- Selleck, Edgar C., San Francisco, Calif. Trolling-spoon. No. 1,400,629; Dec. 20.
- Selleck, Silas E., assignor of one-third to T. J. Selleck, Cold Spring, N. Y. Timer. No. 1,399,366; Dec. 6.
- Selleck, Theodore J. (See Selleck, Silas E., assignor.)
- Seller, Arthur. (See Weber, A. Voorsanger, and Seller.)
- Sellens, Francis C., London, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Chain-grate stoker. No. 1,398,977; Dec. 6.
- Sellers, George E., Palous, Wash. Tire-chain retainer. No. 1,384,639; July 12; v. 288; p. 336.
- Sellers, Gilbert, Chicago, Ill. Elevator. No. 1,369,305; Feb. 22; v. 283; p. 616.
- Sellers, James H., assignor to The National Sanitary Service Company, Oklahoma, Okla. Toilet-paper dispenser. No. 1,383,245; June 28; v. 287; p. 720.
- Sellers, John H., Wellston, Ohio. Revolving bin. No. 1,369,135; Feb. 22; v. 283; p. 584.
- Sellers, William & Company. (See Benzon, George H., Jr., assignor.)
- Sellers, William, & Company. (See Kneass, Strickland L., assignor.)
- Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-bearing. No. 1,375,019; Apr. 19; v. 285; p. 420.
- Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Manufacturing ball-bearings. No. 1,375,020; Apr. 19; v. 285; p. 421.
- Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-bearing. No. 1,375,021; Apr. 19; v. 285; p. 421.
- Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Ball-bearing. No. 1,375,022; Apr. 19; v. 285; p. 421.
- Sellew, Roland W., assignor to The Fafnir Bearing Company, New Britain, Conn. Antifriction-bearing. (Reissue.) No. 15,233; Nov. 22.
- Selley, Albert B., et al. (See Armstrong, Charles G., assignor.)
- Sellmer, Jacob P., San Anselmo, Calif. Aeroplane. No. 1,376,785; May 3; v. 286; p. 76.
- Sellmeyer, Gilbert J., Indianapolis, Ind. Automatic changeable exhibitor. No. 1,368,061; Feb. 8; v. 283; p. 287.
- Senour, Roy R., and L. T. White, Pasadena, Calif. Spark-plug packing. No. 1,400,464; Dec. 13.
- Sells, Louis M., and W. Hebern, Oakland, Calif.; said Hebern assignor of all his right to Security Auto Lock Co. Automobile-lock. No. 1,365,858; Jan. 18; v. 282; p. 434.
- Sells, Ogden S., Buffalo, N. Y. Labeling-machine. No. 1,393,581; Oct. 11.
- Sells, Ogden S., Buffalo, N. Y., assignor to Peerless Husker Company, Buffalo, N. Y., Copartnership. Vegetable-washer. No. 1,381,510; June 14; v. 287; p. 276.
- Sels, Martinus T., Knoxville, Iowa. Hen's nest. No. 1,371,443; Mar. 15; v. 284; p. 431.
- Sem, Mathias O., assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Christiania, Norway. Precipitating aluminum compound. No. 1,382,808; June 28; v. 287; p. 637.
- Semet-Solvay Company. (See Crupe, George W., assignor.)
- Semet-Solvay Company. (See Joblin, Jacob M., assignor.)
- Semet-Solvay Company. (See Loomis, Chauncey C., assignor.)
- Semi-Unit Corporation. (See Goold, Luella L., assignor.)
- Semley, George B., Kenosha, Wis. Sheet-turner. No. 1,393,400; Oct. 11.
- Semoff, Meyer, West Hoboken, N. J. Road-clearing attachment for vehicles. No. 1,367,923; Feb. 8; v. 283; p. 262.
- Semones, John F., Union City, Tenn. Adjustable tool. No. 1,385,477; July 26; v. 288; p. 665.
- Semonin, Paul F., Louisville, Ky. Grate-basket. No. 1,385,931; July 26; v. 288; p. 757.
- Semple, James R., assignor to The Piano and Organ Supply Company, Chicago, Ill. Piano-action bushing or the like. No. 1,369,196; Feb. 22; v. 283; p. 596.
- Semple, John B., Sewickley, Pa. Fuse. No. 1,369,476; Feb. 22; v. 283; p. 650.
- Semple, William G., North Tonawanda, N. Y. Ironing-board. No. 1,374,398; Apr. 12; v. 285; p. 238.
- Senderens, Jean B., Choisy-le-Roi, assignor to Les Etablissements Poulenc Freres, Paris, France. Production of benzoic acid. No. 1,365,956; Jan. 18; v. 282; p. 453.
- Seneca Camera Manufacturing Company. (See Goddard, Joseph, assignor.)
- Sen-Jacq Film Print Co. (See Sentou, C. A., and Jacquet, assignors.)
- Senn, Arthur L., Seattle, Wash. Electrovapor-heated steering-wheel. No. 1,388,488; Aug. 23; v. 289; p. 682.
- Sensibar, Jacob R., Chicago, Ill. Depositing sand. No. 1,392,663; Oct. 4.
- Senstius, Antoine G., assignor to The Willys-Overland Company, Toledo, Ohio. Propeller-shaft mounting. No. 1,390,464; Sept. 13; v. 290; p. 272.
- Senter, Carl U., Los Angeles, Calif. Soda-fountain faucet. No. 1,399,367; Dec. 6.
- Sentinel Alarm Co. (See Butcher, James M., assignor.)
- Sentou, Camille A., and E. Jacquet, assignors to Sen-Jacq Film Print Co., Fort Lee, N. J. Machine for treating photographic moving-picture films. No. 1,385,403; July 26; v. 288; p. 649.
- Sentrop, Johannes T., Jr., Montreal, Quebec, Canada. Cycle. No. 1,390,822; Sept. 13; v. 290; p. 345.
- Seppi, Frank. (See Nordwick, Henry A., assignor.)
- Seppmann, Alfred B., Lake Crystal, Minn. Carbon-scraper. No. 1,388,489; Aug. 23; v. 289; p. 682.
- Sepulchre, Edouard, Woluwe-St. Pierre, Belgium. Apparatus for extracting and refining greasy substances contained in water. No. 1,396,889; Nov. 15.
- Sera, Ryumatsu, Los Angeles, Calif. Tire. No. 1,380,501; June 7; v. 287; p. 34.
- Serak, George E., assignor to Alfred Decker & Cohn, Inc., Chicago, Ill. Pattern for making clothing. No. 1,394,583; Oct. 25.
- Seraphine, Nicola J., New York, N. Y. Toy. No. 1,369,556; Feb. 22; v. 283; p. 665.
- Serediuk, John. (See Kaplan, A., and Serediuk.)
- Serghison, Evaghoras, San Francisco, Calif. Medicinal compound. No. 1,368,974; Feb. 15; v. 283; p. 513.
- Serr, Francis G. (See Bush, F. P., Serr, and Powell.)
- Serrell, Lemuel W., New York, N. Y. Electric fireless cooker and range. No. 1,392,802; Oct. 4.
- Serrurier, Iwan, Altadena, Calif. Film-rewinding device. No. 1,369,197; Feb. 22; v. 283; p. 596.
- Serrurier, Iwan, Altadena, Calif. Picture-projecting apparatus. No. 1,385,955; July 26; v. 288; p. 761.
- Sertil, Albert J., St. Louis, Mo. Shoe-heel. No. 1,372,163; Mar. 22; v. 284; p. 625.
- Service Caster & Truck Company, The. (See Chesnutt, John L., assignor.)
- Service Cloth Pleating Company, The. (See Whyte, John, assignor.)
- Service Electric Manufacturing & Supply Company. (See Hoar, George W., assignor.)
- Service Motor Truck Company. (See Petty, Walter M., assignor.)
- Service, William F., Poughkeepsie, assignor, by mesne assignments, to C. Hardy and C. H. Potter, New York, N. Y. Timer. No. 1,391,419; Sept. 20; v. 290; p. 529.
- Servidor Company, The. (See Matchette, Frank J., assignor.)
- Servis, Charles G., Logan, Iowa. Package-tie. No. 1,385,956; July 26; v. 288; p. 761.
- Servoss, Willard S., Briercrest, Saskatchewan, Canada. Weed burner and eradicator. No. 1,399,229; Dec. 6.
- Sessions, Alfred D. E., Red Wing, Minn. Hairpin. No. 1,371,399; Mar. 15; v. 284; p. 422.
- Sessions Clock Company, The. (See Warner, Julius H., assignor.)
- Sessions, Edson O., Chicago, Ill. Locking-switch. No. 1,366,503; Jan. 25; v. 282; p. 604.



## Alphabetical list of patentees—Continued.

- Sessions, Edson O., assignor of one-half to R. Jarvis Gaudy, Chicago, Ill. Locking-switch. No. 1,366,504; Jan. 25; v. 282; p. 604.
- Sessions, Frank L., Lakewood, Ohio. Method of and apparatus for electrically welding tubing. No. 1,365,198; Jan. 11; v. 282; p. 266.
- Sessions, Frank L., Lakewood, Ohio. Method of and apparatus for electric welding. No. 1,365,199; Jan. 11; v. 282; p. 266.
- Sessions, Herbert A. (See Purvis, J. A., and Sessions.)
- Sessler, Marcel K., assignor to American Spike Company, Incorporated, New York, N. Y. Spike. No. 1,380,423; June 7; v. 287; p. 19.
- Sessler, Marcel K., assignor to American Spike Company, Incorporated, New York, N. Y. Spike. No. 1,380,424; June 7; v. 287; p. 19.
- Sessoms, William T., Chicago, Ill. Neck-shaving pattern or guide. No. 1,385,722; July 26; v. 288; p. 715.
- Sestini, Quirino. (See Rondelli, T., and Sestini.)
- Sestron (Foreign Patents) Limited. (See Rondelli, T., and Sestini, assignors.)
- Setter, Michael B., Chicago, Ill. Piston-ring. No. 1,384,158; July 12; v. 288; p. 236.
- Setkowski, Edward, Clifton, N. J. Locking device for vehicles. No. 1,396,067; Nov. 8.
- Settles, Clarence B., Martinsdale, Mont. Stirrup-leather fastener for saddles. No. 1,365,551; Jan. 11; v. 282; p. 334.
- Settles Pen Company. (See De Maria, John L., assignor.)
- Seufert, John, *et al.* (See Heibel, Frank B., assignor.)
- Seurin, Pierre, Paris, France. Device for controlling from a distance the windows of motor-cars and other vehicles. No. 1,375,612; Apr. 19; v. 285; p. 534.
- Severance, Horace W., and G. F. Hemphill, assignors, by mesne assignments, to Elliott-Nichols Manufacturing Company, Kansas City Mo. Mirror-holder. No. 1,386,959; Aug. 9; v. 289; p. 270.
- Severance, Howard D., Monterey, Calif. Fish cutting and cleaning machine. No. 1,400,186; Dec. 13.
- Severance, W. B. (See Hawkins, Thomas, assignor.)
- Severs, Christopher H., Chicago, Ill. Safety-lock for switch-stands. No. 1,399,508; Dec. 13.
- Sévié, Henri A., Winthrop, Mass. Paraffining-machine. No. 1,399,160; Dec. 6.
- Seward, Hyram L., and R. E. Hale, Kansas City, Mo. Fuel cut-out and compression-release for gas-engines. No. 1,393,838; Oct. 18.
- Seward, William, Baltimore, Md. Mold for vulcanizing pneumatic tires. No. 1,380,425; June 7; v. 287; p. 19.
- Seward, William, Baltimore, Md. Vulcanizing pneumatic tires. No. 1,380,426; June 7; v. 287; p. 19.
- Sewell, Arthur L., assignor of one-third to E. J. Moran and one-third to J. A. Greeley, Chicago, Ill. Inner liner for tires. No. 1,379,314; May 24; v. 286; p. 742.
- Sewell, William E. (See Frisbie, Nelson D., assignor.)
- Sexton, George B. (See Biddle, George L., assignor.)
- Sexton Mfg. Co. (See Dwyer, Leo T., assignor.)
- Seybold, Charles, Dayton, Ohio. Friction-clutch. No. 1,365,733; Jan. 18; v. 282; p. 409.
- Seyl, Hubert H., Chicago, Ill. Method of and means for treating the hair. No. 1,386,134; Aug. 2; v. 289; p. 34.
- Seymer, Ervin A. (See Gase, G. A., and Seymer.)
- Seymour, Arthur J., St. Paul, Minn., assignor to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,377,225; May 10; v. 286; p. 217.
- Seymour, Benjamin F., Washington, D. C. Shock-absorber. No. 1,366,422; Jan. 25; v. 282; p. 587.
- Seymour, Benjamin F., Washington, D. C. Vehicle-wheel, *ac.* No. 1,384,783; July 19; v. 288; p. 447.
- Seymour, Charles R., O. M. Hoch, and T. W. Adams, assignors to M. D. Knowlton Company, Rochester, N. Y. Circuit-closer for sheet-trips. No. 1,389,998; Sept. 6; v. 290; p. 88.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Filled-bag-sewing apparatus. No. 1,372,372; Mar. 22; v. 284; p. 666.
- Seymour, Dudley S., Oak Park, assignor to Union Special Machine Company, Chicago, Ill. Trimming mechanism for sewing-machines. No. 1,400,998; Dec. 20.
- Seymour, Frank A., Madella, Minn. Brush-protector. No. 1,365,552; Jan. 11; v. 282; p. 334.
- Seymour, Jonathan C., and A. McKellar, Salt Lake City, Utah. Jack. No. 1,382,682; June 28; v. 287; p. 613.
- Seymour-Jones, Alfred, Wrexham, Wales, assignor to The Turner Tanning Machinery Company, Peabody, Mass. Pneumatic or like rollers. No. 1,365,606; Jan. 11; v. 282; p. 345.
- Seymour, Mark T., Stowe, N. Y. Electric coffee and peanut roaster. No. 1,381,243; June 14; v. 287; p. 228.
- Seymour, Manly C., Hesperia, Mich. Tire-boot. No. 1,377,098; May 3; v. 286; p. 137.
- Seymour Metal Goods Company, The. (See Hancock, Thomas F., assignor.)
- Seymour, William, Paterson, N. J. Reinforced building unit. No. 1,399,088; Dec. 6.
- Seymour, William A., Leavenworth, Kans. Baling-wire needle. No. 1,389,386; Aug. 30; v. 289; p. 914.
- Sgaltzer, Friedrich, Vienna, Austria. Manufacture of a food preparation from fresh blood. No. 1,380,427; June 7; v. 287; p. 20.
- Shackitt, Mortimer M., Brooklyn, N. Y. Fountain marking-brush. No. 1,367,433; Feb. 1; v. 283; p. 109.
- Shackleford, Franklin T., Minneapolis, Minn. Amplifier for sound-reproducing machines. No. 1,389,999; Sept. 6; v. 290; p. 89.
- Shackleton, Alfred, Chicago, Ill. Variable-speed power-transmission device. No. 1,375,327; Apr. 19; v. 285; p. 480.
- Shackleton, Harry, North Providence, R. I., and J. Gordon, New Bedford, Mass. Polishing composition. No. 1,382,127; June 21; v. 287; p. 453.
- Shackleton, Samuel P. (See Demarest, C. S., and Shackleton.)
- Shackleton, Samuel P., New York, N. Y., assignor to American Telephone and Telegraph Company. Electron-tube-testing circuits. No. 1,366,734; Jan. 18; v. 282; p. 409.
- Shackleton, Samuel P., New York, N. Y., assignor to American Telephone and Telegraph Company. Trunk-circuits. No. 1,370,562; Mar. 8; v. 284; p. 198.
- Shackley, Moses E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Counter-pinking machine. No. 1,365,794; Jan. 18; v. 282; p. 421.
- Shader, Cornelius L. (See Schwarz, C. F., and Shader.)
- Shader, Cornelius L., Green Island, and J. E. Falle, Troy, N. Y. Shirt-neckband. No. 1,378,825; May 17; v. 286; p. 577.
- Shadbolt, William O. (See Marklein, Otto, assignor.)
- Shadbolt, William O., Brooklyn, N. Y. Truck. No. 1,399,583; Dec. 6.
- Shade, Howard M., Conemaugh, Pa. Track-sander. No. 1,392,230; Sept. 27; v. 290; p. 766.
- Shadle Automatic Train Signal Company. (See Shadle, Clinton F., assignor.)
- Shadle, Clinton F., Indianapolis, Ind., assignor to Shadle Automatic Train Signal Company. Signal system for railways. No. 1,397,883; Nov. 22.
- Shaeff, Charles B., Norristown, Pa. Auxiliary-air inlet. No. 1,398,805; Nov. 29.
- Shafer, Carl R., Detroit, Mich. Hair-cutting gage. No. 1,390,465; Sept. 13; v. 290; p. 273.
- Shafer, Fay E., assignor to Shafer Safety Auto Post Company, St. Louis, Mo. Dirigible headlight. No. 1,395,745; Nov. 1.
- Shafer, Gilbert C. (See Hellem, L. M., and Shafer, assignors.)
- Shafer, Henry, Ida, Mich. Talking-machine or the like. No. 1,384,409; July 12; v. 288; p. 288.
- Shafer, Ira, and C. A. Small, San Diego, Calif. Coating and forming machine. No. 1,393,401; Oct. 11.
- Shafer, John L., *et al.* (See Tooker, Harry S., assignor.)
- Shafer Safety Auto Post Company. (See Shafer, Fay E., assignor.)
- Shafer, Timothy E., Fowler, Calif. Dumping-truck. No. 1,380,601; June 7; v. 287; p. 52.
- Shafer, Van A., *et al.*, trustees. (See Hulbert, Ansel C., assignor.)
- Shaff, Ernest H., Grand Haven, Mich. Suitcase-lock. No. 1,392,531; Oct. 4.
- Shaffer, Charles G., Paterson, and G. Trefs, Montville, N. J. Control means for mold-making machines. No. 1,379,421; May 24; v. 286; p. 762.
- Shaffer, David L., Pittsburgh, Pa. Locomotive-furnace grate. No. 1,369,939; Mar. 1; v. 284; p. 35.
- Shaffer, Patrick H., Richmond, W. Va. Swivel-connector. No. 1,386,195; Aug. 2; v. 289; p. 35.
- Shaffer, William D., Santa Paula, Calif. Rope-socket. No. 1,384,489; July 12; v. 288; p. 304.
- Shaffer, William H., Cumberland, Md. Lard and butter cutter. No. 1,390,170; Sept. 6; v. 290; p. 123.
- Shaffner, Samuel C., Chicago, Ill. Trousers-form. No. 1,366,505; Jan. 25; v. 282; p. 604.
- Shafor, Ralph W., Denver, Colo., assignor to The Dorr Company. Mixing apparatus. No. 1,364,412; Jan. 4; v. 282; p. 71.
- Shaller, Paul R., Washington, D. C. Sanding device for automobiles. No. 1,387,620; Aug. 16; v. 289; p. 453.
- Shailor, Frank E., assignor to G. A. Gloor, Detroit, Mich. Chuck or holder. No. 1,374,399; Apr. 12; v. 285; p. 238.
- Shaker-Dump Coal Grate Co. (See Tatum, James W., assignor.)
- Shakespeare Company. (See Clickner, Earle, assignor.)
- Shalok, Isaac C., Philadelphia, Pa., assignor to The De Luxe Brush Company, Wilmington, Del. Dispensing device. No. 1,395,302; Nov. 1.
- Shallenberger, Louis R., Pueblo, Colo. Metal culvert. No. 1,381,244; June 14; v. 287; p. 228.
- Shamberger, John P., Baltimore, Md. Stem and bit locking device. No. 1,390,931; Sept. 13; v. 290; p. 368.
- Shamblen, Lester B., assignor of one-half to United Alfalfa Company, Omaha, Nebr. Bag-holder. No. 1,373,839; Apr. 5; v. 285; p. 89.
- Shamblin, Harvey C., and E. E. McKay, Commerce, Okla. Lubricating device. No. 1,372,253; Mar. 22; v. 284; p. 643.
- Shambow, John C., assignor to Shambow Shuttle Company, Woonsocket, R. I. Shuttle. No. 1,368,975; Feb. 15; v. 283; p. 513.
- Shambow Shuttle Company. (See Brouillette, Albert J., assignor.)
- Shambow Shuttle Company. (See Shambow, John C., assignor.)



*Alphabetical list of patentees—Continued.*

- Shambow, John C., assignor to Shambow Shuttle Company, Woonsocket, R. I. Shuttle-eye. No. 1,399,893; Dec. 13. Shambow Shuttle Company. (See Shambow, John C., assignor.)
- Shamm, Montague H. C., Wodonga, Victoria, Australia. Mechanical control of sails. No. 1,376,170; Apr. 26; v. 285; p. 673.
- Shammo, Byron A., New York, N. Y. Garment-fastener. No. 1,368,846; Feb. 15; v. 283; p. 489.
- Shammo, Byron A., New York, N. Y. Shoe-fastener. No. 1,368,847; Feb. 15; v. 283; p. 489.
- Shamsky, Jacob, *et al.* (See Scott, William, assignor.)
- Shanck, Roy B., Kingston, N. Y., assignor to American Telephone and Telegraph Company. Composite ringer. No. 1,366,423; Jan. 25; v. 282; p. 587.
- Shand, Alexander M. (See Shand, W. L., and A. M.)
- Shand, E. B., Detroit, Mich. Ventilating window-hinge. No. 1,365,063; Jan. 11; v. 282; p. 239.
- Shand, William L., and A. M., Caulfield, near Melbourne, assignors of one-half to C. C. Jackson, Melbourne, Victoria, Australia. Gas-burner for heating, cooking, and other purposes. No. 1,397,662; Nov. 22.
- Shane, John J. (See Walker, R. J., and Shane.)
- Shaner, George B. (See Anderson, J. B., Garner, and Shaner.)
- Shaner, Kserty, Washburn, Me. Pliers. No. 1,379,315; May 24; v. 286; p. 742.
- Shank, Irl A., Florence, Colo. Locking device for temper-screw swivels. No. 1,377,287; May 10; v. 286; p. 229.
- Shanks, John S., Canton, Ohio. Heating apparatus. No. 1,377,030; May 3; v. 286; p. 124.
- Shankland, James L., Toronto, Ontario, Canada. Triplane. No. 1,377,973; May 10; v. 286; p. 362.
- Shankland, James L., Toronto, Ontario, Canada. Airplane-body. No. 1,384,784; July 19; v. 288; p. 447.
- Shanklin, Clarence E., and C. B. Burge, Boston, Mass. Towel-vending machine. No. 1,385,053; July 19; v. 288; p. 502.
- Shanley, Francis, Chicago, Ill. Manhole. No. 1,364,323; Jan. 4; v. 282; p. 54.
- Shanley, Francis, Chicago, Ill. Manhole. No. 1,384,712; July 12; v. 288; p. 352.
- Shann, Oscar A. (See Gilson, A. F. F., and Shann.)
- Shann, Oscar A., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Bell. No. 1,387,188; Aug. 9; v. 289; p. 315.
- Shannon, Edwin P., Lockland, Ohio. Clamping means for rotary members. No. 1,392,363; Oct. 4.
- Shannon, Henry F., Megece, Saskatchewan, Canada. Transmission. No. 1,394,122; Oct. 18.
- Shannon, James, Canonburg, and W. M. Simpson, Hastings, England. Oil cooking-stove. No. 1,382,128; June 21; v. 287; p. 453.
- Shannon, James, Canonbury, London, England. Oil-stove. No. 1,393,706; Oct. 11.
- Shannon, John K., Marshall, Mo. Detachable truck-body for automobiles. No. 1,384,162; July 12; v. 288; p. 236.
- Shapiro, Abraham S. (See Kalman, L. O., and Shapiro.)
- Shapiro, Benjamin, Philadelphia, Pa. Toy. No. 1,366,841; Jan. 25; v. 282; p. 671.
- Shapiro, David, New York, N. Y. Cigarette and cigar dispenser and container. No. 1,379,702; May 31; v. 286; p. 889.
- Shapiro, Herman, Cleveland, Ohio, assignor of one-half to A. E. Bernstein and F. S. Day. Photograph-development apparatus. No. 1,366,748; Jan. 25; v. 282; p. 653.
- Shapiro, Herman, Cleveland, Ohio, assignor of one-half to A. E. Bernstein and F. S. Day. Photographic continuous printing apparatus and process. No. 1,371,400; Mar. 15; v. 284; p. 423.
- Shapiro, Samuel, Philadelphia, Pa. Combination-tool. No. 1,399,665; Dec. 6.
- Shapiro, Samuel G., New York, N. Y. Device for use in attaching heels to shoes. No. 1,401,819; Dec. 27.
- Sharbaugh, Wilbur F., Wheeling, W. Va. Safety milk-can spout. No. 1,393,250; Oct. 11.
- Sharkey, Albert E., Cuyahoga Falls, assignor to The General Rubber Goods Co., Cleveland, Ohio. Combined tool-pouch and testing device. No. 1,387,189; Aug. 9; v. 289; p. 315.
- Sharkey, James L. (See Roy, Alexander, assignor.)
- Sharkey, William J., deceased, Pine Bluff, Ark.; W. S. Pettit, administrator. Valve. No. 1,373,360; Mar. 29; v. 284; p. 901.
- Sharkoff, Eugene F., Washington, D. C. Shoe-holding device. No. 1,373,771; Apr. 5; v. 285; p. 75.
- Sharon Steel Hoop Co. (See Scholtz, Charles, assignor.)
- Sharp, Alexander B., Steubenville, Ohio. Gas-burner. No. 1,388,609; Aug. 23; v. 289; p. 705.
- Sharp, Barney A., Los Angeles, Calif. Potato-peeling machine. No. 1,380,259; May 31; v. 286; p. 994.
- Sharp, Charlie, Dizney, Ky. Train control. No. 1,382,561; June 21; v. 287; p. 536.
- Sharp, Charles H. (See McLain, Thomas E., assignor.)
- Sharp, Clayton H. (See Little, W. F., and Sharp.)
- Sharp & Dohme. (See La Porte, Norbert M., assignor.)
- Sharp, George M., Washington, D. C. Headdress. No. 1,394,366; Oct. 18.
- Sharp, John, Cleveland, Ohio. Spark-plug. No. 1,366,602; Jan. 25; v. 282; p. 624.
- Sharp, John, and W. Sharp, Cleveland, Ohio. Spark-plug. No. 1,366,603; Jan. 25; v. 282; p. 624.
- Sharp, John C., assignor to Moccasin Bushing Company, Chattanooga, Tenn. Lubricated bushing unit. No. 1,386,960; Aug. 9; v. 289; p. 270.
- Sharp, John C., assignor to Moccasin Bushing Company, Chattanooga, Tenn. Lubricated journal-box and pulley bearing. No. 1,386,961; Aug. 9; v. 289; p. 270.
- Sharp, John C., assignor to Moccasin Bushing Company, Chattanooga, Tenn. Lubricated pulley-bushing. No. 1,386,962; Aug. 9; v. 289; p. 270.
- Sharp, John W., Muskogee, Okla. Bed-spring. No. 1,399,894; Dec. 13.
- Sharp, Joseph B., *et al.* (See Bethel, Harry L., assignor.)
- Sharp, Joseph W., Jr., Berwyn, Pa., assignor to Haines, Jones & Cadbury Incorporated. Bath-trap. No. 1,375,023; Apr. 19; v. 285; p. 421.
- Sharp, Justin I., Wallace, Mo. Combination slip-over spoke end, tenon, and felly protector. No. 1,382,021; June 21; v. 287; p. 434.
- Sharp, Lee C., Plattsmouth, Nebr. Steering mechanism for motor-vehicles. No. 1,386,737; Aug. 9; v. 289; p. 225.
- Sharp, Lee C., Plattsmouth, Nebr., assignor to American Can Company, New York, N. Y. Can heading and flanging machine. No. 1,389,703; Sept. 6; v. 290; p. 28.
- Sharp, Lee C., Plattsmouth, Nebr., assignor to American Can Company, New York, N. Y. Can-closing machine. No. 1,389,704; Sept. 6; v. 290; p. 29.
- Sharp, Lee C., Plattsmouth, Nebr., assignor to Alfa-Maise Manufacturing Company, Wilmington, Del. Forage-cutter. No. 1,390,548; Sept. 13; v. 290; p. 290.
- Sharp, Lee C., Plattsmouth, Nebr., assignor to Alfa-Maise Manufacturing Company, Wilmington, Del. Animal food composition and preparing same. No. 1,395,746; Nov. 1.
- Sharp, William. (See Sharp, J. and W.)
- Sharp, William H., assignor to Bauer & Black, Chicago, Ill. Surgical swab. No. 1,375,861; Apr. 26; v. 285; p. 613.
- Sharp, William H., assignor to Bauer & Black, Chicago, Ill. Formaldehyde-fumigator. No. 1,389,074; Aug. 30; v. 289; p. 852.
- Sharpe, Frank H., Boston, Mass. Divider. No. 1,364,590; Jan. 4; v. 282; p. 104.
- Sharpe, George A. (See Williams, O. A., and Sharpe.)
- Sharpe, George E., Steubenville, Ohio. Gas-burner. No. 1,398,470; Nov. 29.
- Sharpe, Jay I., Zanesville, Ohio. Heater for electric automobiles. No. 1,364,212; Jan. 4; v. 282; p. 32.
- Sharpe, Joe, Homestead, Pa. Roller-bearing. No. 1,367,519; Feb. 1; v. 283; p. 126.
- Sharpe, Joseph, Homestead, Pa. Cooker. No. 1,370,370; Mar. 1; v. 284; p. 116.
- Sharples, David T., West Chester, Pa. Flexible spindle-coupling. No. 1,373,772; Apr. 5; v. 285; p. 75.
- Sharples, David T., and G. D. Grosner, assignors to The Sharples Specialty Company, West Chester, Pa. Bearing. No. 1,401,195; Dec. 27.
- Sharples, Laurence P., West Chester, Pa. Flexible spindle-coupling. No. 1,373,206; Mar. 29; v. 284; p. 871.
- Sharples, Philip T., ~~and~~ <sup>and</sup> J. A. Davids, Pa. Resolving emulsions. No. 1,373,773; Apr. 5; v. 285; p. 76.
- Sharples, Philip T., St. Davids, Pa. Centrifugal machine. No. 1,401,196; Dec. 27.
- Sharples, Philip T., St. Davids, Pa. Spindle for centrifugal machines. No. 1,401,197; Dec. 27.
- Sharples Separator Co., The. (See Dixon, Walter G., assignor.)
- Sharples Separator Co., The. (See Doyle, Frank A., assignor.)
- Sharples Separator Co., The. (See McFadden, James R., assignor.)
- Sharples Specialty Company, The. (See Jones, Leo D., assignor.)
- Sharples Specialty Company, The. (See Sharples, D. T., and Grosner, assignors.)
- Sharpless, P. E., Company. (See Nusbaum, Joseph, assignor.)
- Sharpnack, Matthew C., Omaha, assignor of one-half to C. I. Hiddleston, Sr., Douglas county, Nebr. Airplane. No. 1,388,770; Aug. 23; v. 289; p. 736.
- Sharpneck, Eliel L., Bakersfield, Calif. Plastic composition. No. 1,379,052; May 24; v. 286; p. 692.
- Sharpneck, Eliel L., Bakersfield, Calif. Plastic composition. No. 1,379,053; May 24; v. 286; p. 692.
- Sharps, John A. (See Cutright, I. G., and Sharps.)
- Sharps, John A., and I. G. Cutright, assignors to Cutright Sharps Company, Inc., Buckhannon, W. Va. Shade-roller fixture. No. 1,389,603; Sept. 6; v. 290; p. 9.
- Sharyon, Leo G., Little Falls, Minn. Paper-cuspidor holder. No. 1,388,771; Aug. 23; v. 289; p. 737.
- Shattock, Clifford, Detroit, Mich. Valve-grinding composition. No. 1,386,432; Aug. 2; v. 289; p. 92.
- Shattuck, Claude A., Hague, N. Y. Back for seats. No. 1,366,506; Jan. 25; v. 282; p. 604.
- Shatz, Barnett, Buenos Aires, Argentina. Device to graduate the distance of the lines of typewriting-machines, specially for writing on ruled paper. No. 1,401,653; Dec. 27.
- Shaughnessy, Ambrose J., Islip, N. Y. Combined mud-guard and motor-cooler. No. 1,374,475; Apr. 12; v. 285; p. 253.
- Shaul, Charles W., Grinnell, Iowa. Punching and cutting pliers. No. 1,381,024; June 7; v. 287; p. 135.



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- Shaul, George A., Seneca, Kans. Garage structure. No. 1,372,095; Mar. 22; v. 284; p. 612.
- Shaver, Archibald G., Chicago, Ill., assignor to Casale Safety Device Company, New York, N. Y. Shoe. No. 1,383,865; July 5; v. 288; p. 126.
- Shavers, Henry J., Goldsboro, N. C. Lubricator. No. 1,384,353; July 12; v. 288; p. 276.
- Shavor, Frederick R. (See Creighton, E. E. F., and Shavor.)
- Shaw, Arthur, Renfrew, Ontario, Canada. Hook and eye. No. 1,366,288; Jan. 18; v. 282; p. 518.
- Shaw, Bruce A., Oak Park, Ill. Automatic fowl-spray. No. 1,396,533; Nov. 8.
- Shaw, Charles E. (See Houley, J. C., and Shaw.)
- Shaw, Charles E., East Weymouth, Mass. Preparation of knitted fabrics for use. No. 1,401,501; Dec. 27.
- Shaw, Edward C., assignor to Shaw, Welsh & Company, Galesburg, Ill. Power-pulley for vehicle-wheels. No. 1,372,836; Mar. 29; v. 284; p. 797.
- Shaw Electric Crane Company. (See Sawyer, Harry, assignor.)
- Shaw, Ellis, Kittanning, Pa. Automobile-top. No. 1,373,207; Mar. 29; v. 284; p. 872.
- Shaw, Frank H., Chicago, Ill., assignor to Kalamazoo Loose Leaf Binder Co., Kalamazoo, Mich. Desk. No. 1,396,291; Nov. 8.
- Shaw, Frederick H. (See Dobbins, Michael G., assignor.)
- Shaw, Harry L., Lorain, Ohio. Adjustable watch-dial. No. 1,375,470; Apr. 19; v. 285; p. 507.
- Shaw, James H., Oakley, Calif. Packing material. No. 1,401,198; Dec. 27.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Lock for gear-shift levers and the like. No. 1,370,371; Mar. 1; v. 284; p. 116.
- Shaw, John H., assignor to Sargent & Company, New Haven, Conn. Lock for gear-shift levers. No. 1,374,169; Apr. 5; v. 285; p. 153.
- Shaw, John K., Minneapolis, assignor to B. G. Dahlberg, St. Paul, Minn. Corner-joint. No. 1,376,587; May 3; v. 286; p. 39.
- Shaw, John K., Minneapolis, assignor to B. G. Dahlberg, St. Paul, Minn. Corner structure for inclosures. No. 1,376,588; May 3; v. 286; p. 40.
- Shaw, John K., Minneapolis, assignor to B. G. Dahlberg, St. Paul, Minn. Wall or surface for deadening sound. No. 1,383,344; July 5; v. 288; p. 18.
- Shaw, John N., Seattle, Wash. Attachment for coffeurns. No. 1,369,557; Feb. 2; v. 283; p. 666.
- Shaw, Joseph A., Pittsburgh, Pa. Reclaiming spent pickling solutions. No. 1,384,974; July 19; v. 288; p. 486.
- Shaw, Louis E., East Orange, N. J., and F. M. Rosenfeld, New York, N. Y., assignors, by mesne assignments, to Diamond Electric Specialties Corp. of Newark, N. J. Portable electric lamp. No. 1,397,705; Nov. 22.
- Shaw, Louis, E., East Orange, N. J. Electric clock. No. 1,400,832; Dec. 20.
- Shaw, Ora D., Philadelphia, Pa. Collapsible form. No. 1,365,200; Jan. 11; v. 282; p. 266.
- Shaw, Oscar B., and F. L. McKenna, Parkersburg, W. Va. Tool-box. No. 1,387,655; Aug. 16; v. 289; p. 460.
- Shaw, R. W. (See Soutullo, Raymond J., assignor.)
- Shaw, Richard, assignor to De Bergue & Company Limited, Manchester, Lancashire, England. Spacing mechanism. No. 1,376,293; Apr. 26; v. 285; p. 696.
- Shaw, Richard R., Fresno, Calif. Auxiliary ignition system for gas-engines. No. 1,394,944; Oct. 25.
- Shaw, Rolla C., and F. C. Skadan, Los Angeles, Calif.; said Skadan assignor to said Shaw. Clamp. No. 1,381,351; June 14; v. 287; p. 247.
- Shaw, Ryland B., Decatur, Ill. Automobile-license fastener. No. 1,398,401; Nov. 29.
- Shaw, Vernon. (See Hutchinson, J. T., Shaw, and Barnes.)
- Shaw-Walker Company. (See Davis, Elmer W., assignor.)
- Shaw Walker Company. (See Hunter, David E., assignor.)
- Shaw, Wallace F., Westfield, Mass. Dental-napkin holder. No. 1,381,672; June 14; v. 287; p. 308.
- Shaw, Welsh & Company. (See Shaw, Edward C., assignor.)
- Shaw, William B., New York, N. Y. Resilient tire. No. 1,384,678; July 12; v. 288; p. 345.
- Shaw, William B., Eaton, Colo. Combination-wrench. No. 1,386,433; Aug. 2; v. 289; p. 92.
- Shawhan, Jabea F., Dayton, Ohio. Motor-vehicle. No. 1,387,076; Aug. 9; v. 289; p. 293.
- Shawmut Machine Works. (See Smith, Raymond D., assignor.)
- Shawnee Mower Company. (See Worthington, Charles C., assignor.)
- Shaylor, John, Lindenwold, N. J. Center-finder and punch. No. 1,378,287; May 17; v. 286; p. 474.
- Shea, Daniel E., Watertown, N. Y. Auto-spindle. No. 1,373,361; Mar. 29; v. 284; p. 902.
- Shea, Elizabeth C., et al. (See La Paugh, Louie T., assignor.)
- Shea, Joseph W., et al. (See La Paugh, Louie T., assignor.)
- Shea, Thomas J., Portland, Oreg. Joining plates or the like. No. 1,401,448; Dec. 27.
- Sheaffer, W. A., Pen Company. (See Olson, Philip W., assignor.)
- Sheafor, Dee L., Chicago, Ill., assignor, by mesne assignments, of one-half to H. D. Martindale, Middletown, Ohio. Valve. No. 1,381,938; June 21; v. 287; p. 418.
- Shear, Edward E., and W. G. Waechtler, Kingston, N. Y.; said Waechtler assignor to said Shear. Railroad safety appliance. No. 1,393,173; Oct. 11.
- Shearer, Adam H. (See Mackie, H. A., and Shearer.)
- Shearer, George T., Waynesboro, Pa. Die-head. No. 1,397,238; Nov. 15.
- Sheatsley, Charles W., Pensacola, Fla. Plumber's ferret. No. 1,377,933; May 10; v. 286; p. 355.
- Sheaver, Joseph. (See Dimock, R. H., Sheaver, and Wyskocil.)
- Sheboygan Couch Company. (See Meves, C. W., and Herrmann, assignors.)
- Sheck, Oscar, assignor to Koehring Machine Company, Milwaukee, Wis. Driving means for concrete-distributors. No. 1,396,534; Nov. 8.
- Shedd, Hugh E., Minneapolis, Minn. Calendar. No. 1,366,604; Jan. 25; v. 282; p. 625.
- Shedd, Marcellus R., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical system of distribution. No. 1,372,096; Mar. 22; v. 284; p. 612.
- Shedd, Marcellus R., Lancaster, N. Y., assignor to Gould Coupler Company. Electrical regulator. No. 1,372,097; Mar. 22; v. 284; p. 613.
- Sheean, James, Camden, N. J. Notebook-holder. No. 1,381,757; June 14; v. 287; p. 324.
- Sheehan, Frank T., Ithaca, N. Y. Knee-supporter. No. 1,388,772; Aug. 23; v. 289; p. 737.
- Sheehan, John E. W. (See Hotchkiss, W. S., and Sheehan.)
- Sheehan, Nicholas I., Lakewood, Ohio. Baseball game. No. 1,394,764; Oct. 25.
- Sheehan, Patrick J. (See Sedgwick, Harry A., assignor.)
- Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Locomotive-cradle. No. 1,371,579; Mar. 15; v. 284; p. 458.
- Sheehan, William M., assignor to Commonwealth Steel Company, St. Louis, Mo. Adjustable driving-box. No. 1,399,809; Dec. 13.
- Sheehan, Walter H., Steubenville, and J. W. Eckard, Mingo Junction, Ohio. Latch for doors and the like. No. 1,395,527; Nov. 1.
- Sheehan, Walter J., Santa Paula, Calif. Casing-spear. No. 1,383,345; July 5; v. 288; p. 18.
- Sheehy, Jeremiah J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,380,931; June 7; v. 287; p. 116.
- Sheeley, James C., Pasadena, Calif. Collapsible concrete-form. No. 1,375,328; Apr. 19; v. 285; p. 480.
- Sheer, Henry M., Quincy, Ill. Vapor-generator. No. 1,373,362; Mar. 29; v. 284; p. 902.
- Sheer, Henry M., Quincy, Ill. Oil-control valve. No. 1,389,075; Aug. 30; v. 289; p. 852.
- Sheer, Henry M., Quincy, Ill. Heater for incubators. No. 1,392,709; Oct. 4.
- Sheer, Henry M., Quincy, Ill. Knockdown brooder-canopy. No. 1,392,708; Oct. 4.
- Sheet Steel Products Co., The. (See Baxter, Kenneth S., assignor.)
- Sheets, William O., et al. (See McCrie, Queenie, assignor.)
- Sheetz, Harry A., Jr., New York, N. Y. Vulcanizer-igniter. No. 1,396,068; Nov. 8.
- Sheetz, Harry A., Jr., New York, N. Y. Vulcanizer. No. 1,396,069; Nov. 8.
- Sheff, William. (See Ellisberg, B., and Sheff.)
- Sheffey, Billie M. (See McNeill, William M., assignor.)
- Sheffield, Julian N., Chapin, N. Y. Harrow-tooth blade. No. 1,378,487; May 17; v. 286; p. 511.
- Sheffield, William M. (See Collier, David C., assignor.)
- Shefts, George, Washington, D. C. Motor-vehicle body. No. 1,387,911; Aug. 16; v. 289; p. 511.
- Shehan, Thomas, Cleveland, Ohio. Screw-thread-cutting device. No. 1,391,514; Sept. 20; v. 290; p. 549.
- Sheinman, Morris, New York, N. Y. Lock. No. 1,398,044; Nov. 22.
- Shelnwald, Sydney. (See Hawley, R., and Shelnwald.)
- Shelburne, Augustine, South Pasadena, Calif. Air-brush. No. 1,398,920; Nov. 29.
- Sheldon, Albert N., Ventura, Calif. Apparatus for walking on the water. No. 1,384,354; July 12; v. 288; p. 277.
- Sheldon, C. P., et al. (See Smith, George T., assignor.)
- Sheldon, Daisy D., et al. (See Smith, George T., assignor.)
- Sheldon, Everett E., Philadelphia, Pa. Photographic-printing machine. No. 1,377,099; May 3; v. 286; p. 137.
- Sheldon, Frank D., Chicago, Ill. Fluid-pump. No. 1,388,315; Aug. 23; v. 289; p. 648.
- Sheldon, George B. (See Crippen, Roy D., assignor.)
- Sheldon, Noble W., Los Angeles, Calif. Gasifying device. No. 1,391,280; Sept. 20; v. 290; p. 501.
- Sheldon, Thomas C. (See Legendre, Ovide, assignor.)
- Sheldon, Samuel B., Duluth, Minn. Ingot-pouring mechanism. No. 1,401,928; Dec. 27.
- Sheller, Wm., et al. (See Flood, John R., assignor.)
- Shellmer, Herman. (See Brinkman, L. H., Fulton, and Shellmer.)
- Shelly, Samuel, Philadelphia, Pa., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Stop mechanism for phonographs. No. 1,395,017; Oct. 25.
- Shelly, William C., Norfolk, Va. Garment-hanger. No. 1,377,443; May 10; v. 286; p. 260.



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- Shelter, Melvin, Flint, Mich. Piston-ring. No. 1,365,348; Jan. 11; v. 282; p. 295.
- Shelton, Benjamin, *et al.* (See Donada, Benito J., assignor.)
- Shelton, Frederick A., Chicago, Ill. Brush. No. 1,399,368; Dec. 6.
- Shelton, Harry J., St. Louis, Mo. Grinder and shredder. No. 1,375,862; Apr. 26; v. 285; p. 613.
- Shelton, James T., Cooper, Tex. Pneumatic knee-pad. No. 1,399,584; Dec. 6.
- Shelton, Joseph A., Henderson, Ky. Trolley construction for barbers' electrical equipment. No. 1,374,117; Apr. 5; v. 285; p. 143.
- Shelton, Roy C., Nashville, Tenn. Tractor-cultivator. No. 1,395,210; Oct. 25.
- Shelton, William G., New York, N. Y. Sewing-machine motor. (Reissue.) No. 15,051; Feb. 22; v. 283; p. 708.
- Shelton, William G., New York, N. Y. Sewing-machine or like motor. No. 1,371,267; Mar. 15; v. 284; p. 395.
- Shelton, William G., New York, N. Y. Drink-mixer. No. 1,382,683; June 28; v. 287; p. 613.
- Shelton, William G., New York, N. Y. Dental-engine hand-tool. No. 1,384,975; July 19; v. 288; p. 486.
- Shelton, William G., New York, N. Y. Automatic stop for talking-machines. No. 1,392,081; Sept. 27; v. 290; p. 736.
- Shelton, William G., New York, N. Y. Universal reproducer. No. 1,392,082; Sept. 27; v. 290; p. 737.
- Shemilt, John, Rockford, Ill. Counter construction. No. 1,385,478; July 26; v. 288; p. 665.
- Sheney, Joseph H., Decatur, Ill. Folding screen-tent for outdoor beds. No. 1,385,589; July 26; v. 288; p. 688.
- Shenk, Adolphus M., and A. and L. Saltzer, Calexico, Calif.; said A. Saltzer and said L. Saltzer assignors of one-sixth of the entire right to said Shenk. Wrench. No. 1,394,225; Oct. 18.
- Shenk, Adolphus M., and A. and L. Saltzer, Calexico, Calif.; said A. Saltzer and said L. Saltzer assignors of one-sixth of the entire right to said Shenk. Wrench. No. 1,394,226; Oct. 18.
- Shenton, James H., Nashua, N. H. Heating or ventilating register. No. 1,394,227; Oct. 18.
- Shepard, Arthur C., Sebring, Ohio, assignor to American Dresser Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln. No. 1,366,424; Jan. 25; v. 282; p. 588.
- Shepard, Charles, Boston, Mass. Hair-waver. No. 1,386,371; Aug. 2; v. 289; p. 80.
- Shepard, Charles C., Worcester, assignor to C. F. Brown, trustee, Reading, Mass. Rubbing-apron. No. 1,367,281; Feb. 1; v. 283; p. 79.
- Shepard, Charles C., Byer, Ohio. Flagman's outfit. No. 1,396,787; Nov. 15.
- Shepard, Charles S., deceased; M. A. Shepard, executrix, Cattaraugus, N. Y. Receptacle for feeding and watering poultry. No. 1,384,785; July 19; v. 288; p. 447.
- Shepard, Elliott, Fresno, Calif. Container-stitching apparatus. No. 1,367,421; Feb. 8; v. 283; p. 223.
- Shepard, Elliott, Fresno, Calif. Container closing and stapling apparatus. No. 1,378,488; May 17; v. 286; p. 512.
- Shepard, Francis H., New Rochelle, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Measuring system. No. 1,401,654; Dec. 27.
- Shepard, Minerva A., executrix. (See Shepard, Charles S.)
- Shepard, Oscar F., assignor to The Warner Elevator Mfg. Company, Cincinnati, Ohio. Control for electric motors. No. 1,390,259; Sept. 6; v. 290; p. 140.
- Shepard, Seth W., Leominster, Mass., assignor to The Howe Comb Company. Fastening device for ladies' handbags or vanity-cases. No. 1,375,114; Apr. 19; v. 285; p. 430.
- Shepard, Wilbur L., Elmwood, assignor of one-fourth to H. C. Hart, Unionville, and one-fourth to A. N. Pierson, Cromwell, Conn. Hydrocarbon-engine. No. 1,393,174; Oct. 11.
- Shepard, Wilbur L., Elmwood, and E. A. Beals, Hartford, Conn. Locomotive. No. 1,393,402; Oct. 11.
- Shepardson, Clyde L., Ionia, Mich. Lathe and shaper tool holder. No. 1,373,363; Mar. 29; v. 284; p. 902.
- Shepard, James, Detroit, Mich. Liquid-gage. No. 1,383,866; July 5; v. 288; p. 126.
- Shepherd, Joe V. R., Holliston, Mass., assignor to Paper Products Machine Company, Boston, Mass. Container. No. 1,397,908; Nov. 22.
- Shepherd Chemical Company. (See Shepherd, John P., assignor.)
- Shepherd, Joe V. R., Holliston, assignor to Paper Products Machine Company, Boston, Mass. Bag-making machine. No. 1,385,495; Jan. 11; v. 282; p. 323.
- Shepherd, John H., Elyria, Ohio. Metal-working machine. No. 1,366,425; Jan. 25; v. 282; p. 588.
- Shepherd, John P., Chicago, Ill., assignor, by mesne assignments, to Shepherd Chemical Company. Ointment. No. 1,383,493; July 5; v. 288; p. 49.
- Shepherd, John P., Chicago, Ill., assignor, by mesne assignments, to Shepherd Chemical Company. Mercury ointment. No. 1,384,863; July 19; v. 288; p. 463.
- Shepherd, John W., Andrews, Ind. Humidifying-valve. No. 1,365,284; Jan. 11; v. 282; p. 283.
- Shepherd, Joseph, Leeds, England. Electrical generator and motor. No. 1,384,864; July 19; v. 288; p. 463.
- Shepherd, Joseph, Leeds, England. Electric generator and motor. No. 1,384,865; July 19; v. 288; p. 464.
- Shepherdson, Abner E., Melrose, Mass. Archer's bow. No. 1,396,788; Nov. 15.
- Shepler, Harry L., assignor to The Willys-Overland Company, Toledo, Ohio. Upholstery device. No. 1,383,431; July 5; v. 288; p. 36.
- Sheppard, Creedy C., Bridgeport, Conn., assignor to United States Ordnance Company of Washington, D. C. Rifle-grenade. No. 1,376,119; Apr. 26; v. 285; p. 663.
- Sheppard, Creedy C., assignor to United States Ordnance Company, Washington, D. C. Automatic firearm. No. 1,376,834; May 3; v. 286; p. 86.
- Sheppard, Wilbur S., Colorado Springs, Colo. Assorting-tray. No. 1,372,098; Mar. 22; v. 284; p. 613.
- Sheppard, William A. (See Sherman, J. A., and Sheppard.)
- Sheppard, William G., Champaign, Ill. Soil cutting and working machine. No. 1,370,847; Mar. 8; v. 284; p. 253.
- Sheppy, Charles L., Buffalo, N. Y. Joint cover or protector. No. 1,389,224; Aug. 30; v. 289; p. 881.
- Sheppy, Charles L., assignor to The Pierce-Arrow Motor Car Company, Buffalo, N. Y. Actuating means for throttle-valves of carbureters. No. 1,397,987; Nov. 22.
- Sherard, Oliver E., Emmett, Idaho. Shoe-heel. No. 1,393,175; Oct. 11.
- Sherbino, Jerome F., Mountain Lakes, N. J. Timer for internal-combustion engines. No. 1,391,984; Sept. 27; v. 290; p. 717.
- Sherbondy, Earl H., assignor to S. D. Waldon, Detroit, Mich. Valve-operating mechanism. No. 1,365,735; Jan. 18; v. 282; p. 409.
- Sherbondy, Earl H., Cleveland, Ohio. Air-delivery cooler for turbo-compressors. No. 1,369,558; Feb. 22; v. 283; p. 666.
- Sherbondy, Earl H., Cleveland, Ohio. Control for air-delivery cooler for turbo-compressors. No. 1,371,444; Mar. 15; v. 284; p. 431.
- Sherbondy, Earl H., Cleveland, Ohio. Method and apparatus for pressure die-casting. No. 1,377,226; May 10; v. 286; p. 217.
- Sherbondy, Earl H., Cleveland, Ohio. Turbo-blower assembly. No. 1,400,322; Dec. 13.
- Sherbondy, Earl H., Cleveland, Ohio. Turbo-compressor casing. No. 1,400,323; Dec. 13.
- Sherer, Glen D., assignor of two-fifths to L. L. Long, Connell, Wash. Air-filtering device. No. 1,375,422; Apr. 19; v. 285; p. 498.
- Sherer, William T., Chicago, Ill. Display-counter. No. 1,380,161; May 31; v. 286; p. 976.
- Sheridan Iron Works, The, *et al.* (See Clark, Le Grand L., assignor.)
- Sheridan, James G., Parnell, Iowa. Poultry-coop. No. 1,385,648; July 26; v. 288; p. 700.
- Sheridan, James B., Pittsburg, Pa. Burner. No. 1,394,228; Oct. 18.
- Sheridan, T. W. & C. B., Company, *et al.* (See Clark, Le Grand L., assignor.)
- Sheridan, T. W. & C. B., Company. (See Glitzendanner, Charles, assignor.)
- Sheridan, T. W. & C. B., Company. (See Story, Ward B., assignor.)
- Sheriff, J. E., New York, N. Y. Transmission mechanism. No. 1,365,553; Jan. 11; v. 282; p. 335.
- Sheriff, Samuel, Salt Lake City, Utah. Expansion-joint for pipes. No. 1,400,465; Dec. 13.
- Sheringham, George H., London, England. Artificial illumination. No. 1,391,585; Sept. 20; v. 290; p. 563.
- Sherman, Arthur G., Detroit, Mich. Bottle-stopper. No. 1,375,471; Apr. 19; v. 285; p. 507.
- Sherman, Cleveland A., Alamosa, Colo. Crutch. No. 1,383,156; June 28; v. 287; p. 703.
- Sherman, Francis M., Lewisport, Ky. Lawn-mower. No. 1,389,537; Aug. 30; v. 289; p. 944.
- Sherman, George M., Tahlequah, Okla. Grinding attachment for lathes. No. 1,385,649; July 26; v. 288; p. 701.
- Sherman, Jacob S., assignor to Universal Lamp Co., Chicago, Ill. Acetylene-gas lamp. No. 1,385,190; July 19; v. 288; p. 531.
- Sherman, John A., and W. A. Sheppard, Worcester, Mass. Means for securing fuel-combustion. No. 1,382,391; June 21; v. 287; p. 503.
- Sherman, John Q., Dayton, Ohio. Autographic register. No. 1,385,587; July 26; v. 288; p. 688.
- Sherman, John Q., Dayton, Ohio. Autographic register. No. 1,386,963; Aug. 9; v. 289; p. 270.
- Sherman, John Q., Dayton, Ohio. Autographic register. No. 1,386,964; Aug. 9; v. 289; p. 271.
- Sherman, John Q., assignor to The Standard Register Company, Dayton, Ohio. Autographic register. No. 1,372,460; Mar. 22; v. 284; p. 682.
- Sherman, John Q., and C. R. Buschmeyer, assignors to The Standard Register Company, Dayton, Ohio. Autographic register. No. 1,385,588; July 26; v. 288; p. 688.
- Sherman, John Q., and A. W. Metzner, Dayton, Ohio; said Metzner assignor to said Sherman. Autographic register. No. 1,394,447; Oct. 18.
- Sherman, Max C. (See Allen, F. B., and Sherman.)
- Sherman, Moses, St. Louis, Mo. Folding-bed couch. No. 1,394,584; Oct. 25.
- Sherman, William L. (See Clapp, Peter A., assignor.)



## Alphabetical list of patentees—Continued.

- Sherman, William T., Troy, assignor to Henry L. Hughes Co., Inc., New York, N. Y. Tube-plate-stripping machine. No. 1,370,610; Mar. 8; v. 284; p. 207.
- Sherman, Willis S., Milwaukee, Wis. Work-feed-tripping means. No. 1,381,352; June 14; v. 287; p. 247.
- Sherptis Alex, Chicago, Ill. Wire rolling and cutting device. No. 1,367,282; Feb. 1; v. 283; p. 79.
- Sherrill, Luther, Nashville, Tenn., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,383,769; July 5; v. 288; p. 106.
- Shertz, Leavitt A., assignor of one-half to E. W. Hart, Massillon, Ohio. Nut-lock. No. 1,388,610; Aug. 23; v. 289; p. 705.
- Sherwood Brothers Manufacturing Company. (See Sherwood, William E., assignor.)
- Sherwood, Carey, Lowell, Mass. Adjustable shaft-hanger. No. 1,374,865; Apr. 12; v. 285; p. 329.
- Sherwood, Charles F. (See Hansen, G. T., and Sherwood.)
- Sherwood, Charles F., Los Angeles, Calif. Shaft-bearing. No. 1,376,043; Apr. 26; v. 285; p. 648.
- Sherwood, Charles F., assignor of 90 per cent. to G. T. Hansen, Salt Lake City, Utah, and, by mesne assignments, of 5 per cent. to T. A. Ryan and 5 per cent. to B. O. Jones, Denver, Colo. Agitating-machine. No. 1,381,673; June 14; v. 287; p. 308.
- Sherwood, Daniel R., Plainfield, N. J., assignor to Henry B. Newhall, Jr., executor of Henry B. Newhall, deceased. Conduit or cable clamp and bridle-ring. No. 1,365,065; Jan. 11; v. 282; p. 240.
- Sherwood, Daniel R., Plainfield, and J. Karitzky, Garwood, N. J., assignors to H. B. Newhall, Jr., Plainfield, N. J. Spring-toggle. No. 1,374,959; Apr. 19; v. 285; p. 408.
- Sherwood, Howard M., Vandalia, Ohio. Drag-line scoop-bucket. No. 1,395,988; Nov. 1.
- Sherwood, Sidney F., Washington, D. C. Making a palatable syrup from sugar-beets. No. 1,370,372; Mar. 1; v. 284; p. 117.
- Sherwood, William, Detroit, Mich. Water-inlet valve for tanks. No. 1,389,907; Sept. 6; v. 290; p. 71.
- Sherwood, William, Detroit, Mich. Water-inlet valve for flushing-tanks. No. 1,391,860; Sept. 27; v. 290; p. 692.
- Sherwood, William E., assignor to Sherwood Brothers Manufacturing Company Inc., Canastota, N. Y. Vehicle-wheel. No. 1,369,847; Mar. 1; v. 284; p. 18.
- Sherwood, William E., Canastota, N. Y. Hand-sled. No. 1,392,083; Sept. 27; v. 290; p. 737.
- Shetterly, Charlie C., Franklin, Ind. Lock for automobiles. No. 1,369,559; Feb. 22; v. 283; p. 666.
- Sheuman, James E., Waynesboro, Pa. Cutter-head. No. 1,368,459; Feb. 15; v. 283; p. 414.
- Shevlin, Miles, Houston, Tex., assignor to W. L. Drake, Des Moines, Iowa. Valve for pumps. No. 1,381,078; June 7; v. 287; p. 145.
- Shewell, Carroll. (See Dettinger, M. L., Wesper, and Shewell.)
- Shewhart, Walter A., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Sound-proof shield. No. 1,365,425; Jan. 11; v. 282; p. 310.
- Shibata, Takejiro, and E. Oe, Kita-Ku, Osaka, Japan. Waterproofing composition and making same. No. 1,380,428; June 7; v. 287; p. 20.
- Shibamura, Shojiro, Tokyo, Japan. Page-turner. No. 1,367,101; Feb. 1; v. 283; p. 44.
- Shick, Robert P., et al. (See O'Neill, Frank, Jr., assignor.)
- Shields, Carl, et al. (See Leveen, Swan J., assignor.)
- Shiek, Daniel W. (See Erickson, A. F., and Shiek.)
- Shiek, Daniel W., assignor to Lyon Metallic Manufacturing Company, Aurora, Ill. No. 1,376,835; May 3; v. 286; p. 86.
- Shield, Paul S. (See Betts, A. L., and Shield.)
- Shields, Charles J., Columbus, Ohio. Rail-connecting chair-plate pattern. No. 1,378,728; May 17; v. 286; p. 559.
- Shields, Frank S., and J. A. Camm, assignors, by mesne assignments, to The Clark & Mesker Milling Machine Company, Cleveland, Ohio. Machine-tool. No. 1,387,517; Aug. 16; v. 289; p. 432.
- Shields, Frank S., East Cleveland, assignor, by mesne assignments, to The Clark & Mesker Milling Machine Company, Cleveland, Ohio. Relieving-machine. No. 1,396,292; Nov. 8.
- Shields, Henry B., Freeport, N. Y. Airplane. No. 1,383,157; June 28; v. 287; p. 703.
- Shields, Herbert F. H., Welling, assignor of one-half to The British Ropeway Engineering Company, Limited, London, England. Aerial ropeway on the single-rope system and the like. No. 1,386,282; Aug. 2; v. 289; p. 64.
- Shields, John W., Springfield, Mass. Printers' galley. No. 1,386,079; Aug. 2; v. 289; p. 24.
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle. No. 1,374,611; Apr. 12; v. 285; p. 280.
- Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle. No. 1,381,353; June 14; v. 287; p. 248.
- Shields, Lytton J., St. Paul, Minn. Storage-battery connector. No. 1,382,129; June 21; v. 287; p. 453.
- Shields, M. A., et al. (See Turner, Joseph D., assignor.)
- Shields, William S., Trenton, N. J. Window. No. 1,370,848; Mar. 8; v. 284; p. 263.
- Shields, William S., Trenton, N. J. Toy building-block. No. 1,385,154; July 19; v. 288; p. 524.
- Shields, William S., Yardley, Pa. Toy building-block. No. 1,385,155; July 19; v. 288; p. 524.
- Shigon, Nathan A., deceased, New York, N. Y.; S. Shigon, administratrix. Fixation and astigmatic chart. No. 1,369,136; Feb. 22; v. 283; p. 584.
- Shigon, Sophie, administratrix. (See Shigon, Nathan A.)
- Shimada, Masao, Kahului, Hawaii. Tire-deflator. No. 1,392,231; Sept. 27; v. 290; p. 767.
- Shimadzu, Tadamitsu, Tokyo, Japan. Funnel. No. 1,378,729; May 17; v. 286; p. 539.
- Shimamoto, Saichi, Tokyo, Japan. Basket-formed bearing metal. No. 1,369,848; Mar. 1; v. 284; p. 18.
- Shimer, Elmer S., Milton, Pa. Lead-pencil. No. 1,396,535; Nov. 8.
- Shimper, Edmund W., Irvington, N. J. Nozzle. No. 1,382,684; June 28; v. 287; p. 613.
- Shimpf, Walter H. (See Sunderman, F. R., and Shimpf.)
- Shindel, Harry F. (See Willson, F., and Shindel.)
- Shindoll, William H., Arlington, S. D. Automatic tally for dispensing-faucets. No. 1,396,536; Nov. 8.
- Shine, John, Houston, Tex. Attachment for internal-combustion motors. No. 1,376,294; Apr. 26; v. 285; p. 697.
- Shiner, Albert E., London, England. Rotary pump. No. 1,390,932; Sept. 13; v. 290; p. 368.
- Shiner, Rose E., Franklin, Mass. Making embossed fabric. No. 1,379,703; May 31; v. 286; p. 889.
- Shiner, Rose E., Franklin, Mass. Embossed fabric. No. 1,384,808; July 19; v. 288; p. 452.
- Shinkarek, Fred. (See Wintoway, Jack, assignor.)
- Shinn, Chester C. (See Urso, B., and Shinn.)
- Shinn, Mary C., Seattle, Wash. Rotary surface-brush. No. 1,374,476; Apr. 12; v. 285; p. 254.
- Shipley, Bernis M., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,393,576; Nov. 29.
- Shipman, Charles M., Newark, N. J. Preventing the passage of gases of combustion through the walls of furnaces or other containers. No. 1,387,739; Aug. 16; v. 289; p. 477.
- Shipman, Emanuel F., Philadelphia, Pa., assignor to Industrial Products Company. Collapsible tool-bag for linemen. No. 1,374,960; Apr. 19; v. 285; p. 409.
- Shipman, Joseph W. C., Los Angeles, Calif. Photographic printer. No. 1,369,560; Feb. 22; v. 283; p. 666.
- Shipman, Lewis H., Boston, Mass. Trolley-shoe. No. 1,388,528; Aug. 23; v. 289; p. 690.
- Shipp, Clarence C., Indianapolis, Ind. Automatic ventilator. No. 1,388,611; Aug. 23; v. 289; p. 705.
- Shipp, J. J. (See Riley, George W., assignor.)
- Shipper, Isaac D., assignor to The J. G. Brill Company, Philadelphia, Pa. Current-collector. No. 1,398,806; Nov. 29.
- Shippert, Warren A., Chicago, Ill. Milking-machine for cows. No. 1,365,064; Jan. 11; v. 282; p. 239.
- Shippert, Warren A., assignor to The Burton Page Company, Chicago, Ill. Cow-milking apparatus. No. 1,385,500; July 26; v. 288; p. 670.
- Shippy, Benton P., Casper, Wyo. Tractor. No. 1,371,938; Mar. 15; v. 284; p. 526.
- Shirek, Siegfried, and W. H. Fenton, Portland, Oreg. Combination automobile-bed. No. 1,374,400; Apr. 12; v. 285; p. 238.
- Shirley Brothers Company. (See Downer, Fred C., assignor.)
- Shirlow, Albert E., Glen Huntly, assignor to J. C. Gates, Melbourne, Victoria, Australia. Apparatus for automatically impregnating or saturating strawboard, paper, and like containers. No. 1,364,648; Jan. 4; v. 282; p. 116.
- Shirpser, Max L., San Francisco, Calif. Motor-meter lock. No. 1,378,288; May 17; v. 286; p. 474.
- Shishkoff, Paul, Richmond, England. Regulating and controlling the transmission of power. No. 1,381,354; June 14; v. 287; p. 248.
- Shively, Frank J., Canton, Ohio. Door-iron. No. 1,374,774; Apr. 5; v. 285; p. 76.
- Shivers, Clifford H. (See Ballinger, W. F., and Shivers.) (Reissue.)
- Shoars, Raymond E. (See Peters, G. H., and Shoars.)
- Shober, Frank L., Cincinnati, Ohio. Automobile-curtain. No. 1,390,895; Dec. 13.
- Shockley, H. C. (See Stanbury, G. E., and Harper, assignors.)
- Shockley, Jiles S., Nashville, Tenn. Rotary pump. No. 1,371,121; Mar. 8; v. 284; p. 304.
- Shockley, Jiles S., assignor to The Shockley Motor Company, Nashville, Tenn. Pump. No. 1,379,785; May 31; v. 286; p. 904.
- Shockley Motor Company, The. (See Shockley, Jiles S., assignor.)
- Shodron, John G., and J. B. Olson, assignors to James Manufacturing Company, Fort Atkinson, Wis. Cattle-stanchion. No. 1,364,413; Jan. 4; v. 282; p. 71.
- Shodron, John G., assignor to James Manufacturing Company, Fort Atkinson, Wis. Stable. No. 1,379,725; May 31; v. 286; p. 893.
- Shoe Machinery Corporation. (See Stewart, William C., assignor.)



*Alphabetical list of patentees—Continued.*

- Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Producing fertilizer. No. 1,375,115; Apr. 19; v. 285; p. 439.
- Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Production of aluminum chlorid. No. 1,375,116; Apr. 19; v. 285; p. 439.
- Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Phosphate-rock-calcining process. No. 1,393,839; Oct. 18.
- Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Apparatus for calcining phosphate rock. No. 1,393,840; Oct. 18.
- Shoeld, Mark, assignor to Armour Fertilizer Works, Chicago, Ill. Treating alunite. No. 1,401,741; Dec. 27.
- Shoemaker, Alvin H., assignor to Knappen Finance Company, Seattle, Wash. Wheel. No. 1,372,982; Mar. 29; v. 284; p. 827.
- Shoemaker, Alvin H., Oakland, Calif., assignor to International Steel Wheel Company. Vehicle-wheel. No. 1,372,983; Mar. 29; v. 284; p. 827.
- Shoemaker, Alvin H., assignor to Knappen Finance Company, Seattle, Wash. Wheel. No. 1,379,054; May 24; v. 286; p. 692.
- Shoemaker, Alvin H., Oakland, Calif. Rotary engine. No. 1,379,653; May 31; v. 286; p. 880.
- Shoemaker, Charles P., Wilkes-Barre, Pa. Reel-fly rack. No. 1,375,613; Apr. 19; v. 285; p. 534.
- Shoemaker, Joseph A., New York, N. Y. Garment-hanger. No. 1,367,629; Feb. 8; v. 283; p. 205.
- Shoemaker, Joseph A., New York, N. Y. Garment-hanger. No. 1,377,444; May 10; v. 286; p. 260.
- Shoemaker, Robert J., assignor to Leadizing Company, Chicago, Ill. Lead-coating process. No. 1,371,445; Mar. 15; v. 284; p. 432.
- Shoemaker, Robert J., assignor to Leadizing Company, Chicago, Ill. Iron or steel bearing element and making same. No. 1,399,810; Dec. 13.
- Shoemaker, William D., Drummond, Md. Loose-leaf file or binder. No. 1,385,590; July 26; v. 288; p. 688.
- Shoenberg, Isaac, London, England, assignor, by mesne assignments, to Radio Corporation of America. Frequency-multiplier. No. 1,372,202; Mar. 22; v. 284; p. 633.
- Shoenberg, Isaac, London, England, assignor, by mesne assignments, to Radio Corporation of America. Frequency-multiplier. No. 1,372,203; Mar. 22; v. 284; p. 633.
- Shoenberg, Milton H. (See Brown, E. N., and Shoenberg.)
- Shoenberg, Milton H., San Francisco, Calif. Overload-switch. No. 1,378,730; May 17; v. 286; p. 559.
- Shoenberg, Milton H., San Francisco, Calif. Safety-switch. No. 1,393,322; Oct. 11.
- Shoenberg, Milton H., San Francisco, Calif. Electric thermal control. No. 1,393,323; Oct. 11.
- Shoenberg, Milton H., San Francisco, Calif. Socket-interrupter. No. 1,400,914; Dec. 20.
- Shoenberg, Milton H., assignor to Majestic Electric Development Company, San Francisco, Calif. Radiant heat.
- Shoenberg, Milton H., and G. J. Henry, San Francisco, Calif. Radiant electric heater. No. 1,368,062; Feb. 8; v. 283; p. 288.
- ing unit. No. 1,365,554; Jan. 11; v. 282; p. 335.
- Shoenberg, Milton H., and G. J. Henry, San Francisco, Calif. Adjustable electric heater. No. 1,393,320; Oct. 11.
- Shoenberg, Milton H., and G. J. Henry, San Francisco, Calif. Radiant heater. No. 1,393,321; Oct. 11.
- Shoff, Emma I., East Prospect, Pa. Clasp. No. 1,375,329; Apr. 19; v. 285; p. 480.
- Shoffstall, Hugh F. (See Demarest, C. S., and Shoffstall.)
- Sholdebrand, Henry O., St. Louis, Mo. Stovepipe-cleaner. No. 1,400,241; Dec. 13.
- Shong, Carl F., Wichita, Kans. Siding-marker. No. 1,392,710; Oct. 4.
- Shonk, William F., Detroit, Mich. Automobile-signal. No. 1,400,999; Dec. 20.
- Shonnard, Harold W. (See Shonnard, Orlando D., assignor.)
- Shonnard, Harold W. (See Weeks, William W., assignor.)
- Shonnard, Orlando D., assignor of one-third to H. W. Shonnard, Upper Montclair, N. J. Coupling and brake connection for vehicles. No. 1,386,902; Aug. 9; v. 289; p. 259.
- Shoopman, Elmer E., Cairo, Nebr. Machine for wrapping and unwrapping tires. No. 1,365,066; Jan. 11; v. 282; p. 240.
- Shorb, William A., assignor to Leader Iron Works, Decatur, Ill. Separating-trap. No. 1,396,384; Nov. 8.
- Shore, Albert F., New York, N. Y. Spring suspension system. No. 1,392,603; Oct. 4.
- Shore, William B., New York, N. Y., assignor, by mesne assignments, to John F. Blanchard. Automatic draft-regulating mechanism for furnaces. No. 1,365,349; Jan. 11; v. 282; p. 295.
- Short, Charles R., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,375,067; Apr. 19; v. 285; p. 430.
- Short, Charles R., assignor to General Motors Corporation, Detroit, Mich. Hydrocarbon-motor. No. 1,377,369; May 10; v. 286; p. 246.
- Short, Charles R., assignor to General Motors Corporation, Detroit, Mich. Bearing-shim. No. 1,383,035; June 28; v. 287; p. 680.
- Short, Charles R., assignor to General Motors Company, Detroit, Mich. Oil-level indicator for motor-vehicles. No. 1,386,903; Aug. 9; v. 289; p. 259.
- Short, Charles R., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,393,913; Oct. 18.
- Short, Charles R., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,393,914; Oct. 18.
- Short, Charles R., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,396,890; Nov. 15.
- Short, Charles R., assignor to General Motors Company, Detroit, Mich. Hydrocarbon-motor. No. 1,396,891; Nov. 15.
- Short, Charley, Courtney, Mo. Roadbed-plate. No. 1,372,099; Mar. 22; v. 284; p. 613.
- Short, David, Sioux City, Iowa. Rail system. No. 1,379,580; May 24; v. 286; p. 792.
- Short, David L. (See West, Augustus A., assignor.)
- Short, Draper W., Empire, Oreg. Engine. No. 1,399,666; Dec. 6.
- Short, Edward C., St. Paul, Minn. Storm-window opener and closer. No. 1,395,303; Nov. 1.
- Short Electrical Mfg. Corp. (See Short, Henry M., assignor.)
- Short, Jefferson D., Albuquerque, N. Mex. Spring-wheel. No. 1,387,077; Aug. 9; v. 289; p. 294.
- Short, Fred H., Waterville, Me. Heating plant. No. 1,398,921; Nov. 29.
- Short, Henry M., assignor to Short Electrical Mfg. Corp., Penn Yan, N. Y. Electric conduit and making same. No. 1,396,789; Nov. 15.
- Short, Ruel I., San Francisco, Calif. Tire-rack. No. 1,377,733; May 10; v. 286; p. 314.
- Shortess, Frank E. (See Mathiesen, Marius, assignor.)
- Shott Manufacturing Company, The. (See Gail, Charles H., assignor.)
- Shoup, A. D., Company. (See Sauvage, Herbert J., assignor.)
- Shoup, Walter C., and W. E. Oliver, Hoboken, N. J. Manifold device for typewriting-machines. No. 1,383,346; July 5; v. 288; p. 18.
- Shoup, Walter C., Milburn township, Essex county, and W. E. Oliver, Woodcliff-on-Hudson, N. J., assignors to Autographic Register Company, New York, N. Y. Paper-feed device for autographic registers. No. 1,396,070; Nov. 8.
- Showalter, Charles F., Omaha, Nebr. Cultivator attachment. No. 1,385,193; July 19; v. 288; p. 532.
- Showalter, Charles S. (See McDermott, W. R., and Showalter.)
- Showalter, Roy C., assignor of one-fifth to S. S. Crane and two-fifths to J. P. Reilly, Altoona, Pa. Trolley-harp. No. 1,380,684; June 7; v. 287; p. 68.
- Showalter, Roy C., Altoona, Pa. Measuring instrument. No. 1,394,229; Oct. 18.
- Showalterbaugh, Joseph, Gary, Ind. Reversible turbine-engine. No. 1,384,976; July 19; v. 288; p. 486.
- Showers, George D., Altoona, Pa. Flush-valve. No. 1,394,945; Oct. 25.
- Showers, Lee, Charleroi, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Finishing glass. No. 1,373,532; Apr. 5; v. 285; p. 30.
- Shrader, Orville W., Boaz, Ala. Bee-smoker. No. 1,386,283; Aug. 2; v. 289; p. 64.
- Shreeve, Herbert E., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,378,982; May 24; v. 286; p. 679.
- Shreve, Aaron D., Kearney, Nebr. Insecticide and disinfectant. No. 1,395,585; Dec. 6.
- Shreve, Ephraim G., Atlantic City, N. J. Article-holder. No. 1,380,932; June 7; v. 287; p. 116.
- Shreve, Harry B., assignor to Lovejoy Tool Works, Chicago, Ill. Drill-chuck. No. 1,385,501; July 26; v. 288; p. 670.
- Shreve, Joseph B., Quay, Okla. Blending-sprayer. No. 1,364,846; Jan. 4; v. 282; p. 154.
- Shroyer, Jacob L., Oak Park, Ill., assignor to General Electric Company. Electric cooker. No. 1,378,566; May 17; v. 286; p. 526.
- Shrum, Will N., assignor to F. E. Tennant, J. W. Jewell, and C. F. Merritt, Dallas, Tex. Antileak composition. No. 1,383,572; July 5; v. 288; p. 65.
- Shryock, Charles F. (See Kaltreider, J. L., and Shryock.)
- Shryock, G. Henry. (See Solomon, Randolph, assignor.)
- Shufeldt, Stella, Minneapolis, Minn. Apparel-belt buckle. No. 1,368,848; Feb. 15; v. 283; p. 489.
- Shuffleton, Wilford P., assignor to Gem Crib & Cradle Company, Gardner, Mass. Wheel connection for bassinets. No. 1,370,611; Mar. 8; v. 284; p. 208.
- Shugers, George W., Los Angeles, Calif. Safety-razor-blade holder. No. 1,389,387; Aug. 30; v. 289; p. 914.
- Shuler, Edwin H. (See Shuler, Max C. and E. H.)
- Shuler, Max C., Charlotte, and E. H. Shuler, Lansing, Mich. Gas-burner. No. 1,376,836; May 3; v. 286; p. 87.
- Shull, Elbert W., assignor of one-half to K. E. Anderson, Cowley, Wyo. Carbon-producing apparatus. No. 1,375,234; Apr. 19; v. 285; p. 462.



## Alphabetical list of patentees—Continued.

- Shute, Arthur C. (See Bergen, William V., assignor.)  
 Shults, Harry, and C. R. Dunn, Gloversville, N. Y. Dish-drainer. No. 1,389,908; Sept. 6; v. 290; p. 71.  
 Shults, Maude, St. Johnsville, N. Y. Laundry-tub. No. 1,373,980; Apr. 5; v. 285; p. 118.  
 Shultz, Adam, Worcester, Mass. Trolley. No. 1,383,158; June 28; v. 287; p. 703.  
 Shultz, Gordon J. (See Mossholder, W. and Shultz.)  
 Shultz, Walter C. (See Johnson, Sinclair J., assignor.)  
 Shultz, William R., Camp Lee, Va. Mail-bag catcher. No. 1,387,518; Aug. 16; v. 289; p. 432.  
 Shuman, Arno, assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa. Machinery for rolling glass. No. 1,382,608; June 21; v. 287; p. 545.  
 Shuman, Arno, assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa. Glass roofing or wall. No. 1,387,621; Aug. 16; v. 289; p. 453.  
 Shuman, Arno, assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa. Machine for and method of making corrugated wire-glass. No. 1,397,149; Nov. 15.  
 Shumate, Thomas J., Washington, D. C. Embryotomy device. No. 1,397,461; Nov. 15.  
 Shumsky, Solomon, Brooklyn, N. Y. Sofa-bedstead. No. 1,374,961; Apr. 19; v. 285; p. 409.  
 Shupert, Elgin D. (See Loney, Thomas C., assignor.)  
 Shur, Edward J. (See McLean, G. W., and Shur.)  
 Shur Products, Inc. (See Adams, Frank A., assignor.)  
 Shurtleff, Wilfred, assignor to Moline Heat, Moline, Ill. Heating and ventilating unit. No. 1,364,894; Jan. 11; v. 282; p. 207.  
 Shurtleff, Wilfred, assignor to Moline Heat, Moline, Ill. Ventilating unit. No. 1,394,946; Oct. 25.  
 Shuster, Elmore F., New Haven, Conn. Wire straightening and cutting-off machine. No. 1,384,100; July 12; v. 288; p. 224.  
 Shuster, Irving C., Newark, N. J. Stock and die. No. 1,382,392; June 21; v. 287; p. 503.  
 Shuster, Samuel L., and G. J. Riegert, St. Joseph, Mo. Automobile power-transmitting device. No. 1,389,167; Aug. 30; v. 289; p. 871.  
 Shute, Frederick W., Amesbury, Mass. Paper-fastener. No. 1,396,790; Nov. 15.  
 Shutt, Albert, Topeka, Kans. Glass tone-bar for playing the guitar and similar stringed musical instruments. No. 1,372,254; Mar. 22; v. 284; p. 644.  
 Siakel, John, Chicago, Ill. Sandpapering-machine. No. 1,364,324; Jan. 4; v. 282; p. 54.  
 Sibbald, George, Denver, Colo. Cant-slip wrench. No. 1,386,136; Aug. 2; v. 289; p. 35.  
 Sibley, Amos H., Ship Bottom, N. J. Artificial tooth. No. 1,396,071; Nov. 8.  
 Sibley, Cedric P., Detroit, Mich. Fastener for papers and other materials. No. 1,394,123; Oct. 18.  
 Sibley, Cedric P., Detroit, Mich. Fastener for papers and other materials. No. 1,397,787; Nov. 22.  
 Sibley, Edward A., Philadelphia, Pa. Guide-forming mechanism. No. 1,367,924; Feb. 8; v. 283; p. 262.  
 Sibley, Irving A., Jr., Chicago, Ill. Bracket for vehicles. No. 1,376,044; Apr. 26; v. 285; p. 648.  
 Sibley, Irving A., Jr., Chicago, Ill. Bumper for vehicles. No. 1,386,807; Aug. 9; v. 289; p. 239.  
 Sibley, James T., Paterson, N. J. Phonograph. No. 1,371,984; Mar. 15; v. 284; p. 535.  
 Sibley, James T., Newark, N. J. Electric motor for talking-machines. No. 1,381,138; June 14; v. 287; p. 209.  
 Sibley, William M. (See Byrne, G. M., and Sibley.)  
 Sibole, Percy L., Swissvale, Pa. Die-casting machine. No. 1,377,604; May 10; v. 286; p. 290.  
 Sibrava, Frank, Wilson, Kans. Elevating and unloading devices. No. 1,372,912; Mar. 29; v. 284; p. 813.  
 Sibson, Walter W. (See Allison, T., and Sibson.)  
 Sicard, Hugh C., Buffalo, N. Y. Production of low-carbon ferrozirconium. No. 1,374,037; Apr. 5; v. 285; p. 128.  
 Sicard, Hugh C., Buffalo, N. Y. Producing zirconium steel. No. 1,374,038; Apr. 5; v. 285; p. 128.  
 Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Producing low-carbon ferrotitanium. No. 1,374,035; Apr. 5; v. 285; p. 127.  
 Sicard, Hugh C., Buffalo, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Producing low-carbon ferrotitanium. No. 1,374,036; Apr. 5; v. 285; p. 128.  
 Sichmeller, Maggie, Webster, S. D. Resilient wheel. No. 1,372,461; Mar. 22; v. 284; p. 683.  
 Sickles, Frank W. (See Perkins, J. L., and Sickles.)  
 Sickmann, Henry C., Marthasville, Mo. Rail-fastener. No. 1,389,705; Sept. 6; v. 290; p. 29.  
 Sideris, Frank, Spokane, Wash. Non-refillable bottle. No. 1,370,708; Mar. 8; v. 284; p. 227.  
 Sidnell, Albert E. (See Steele, P. D., and Sidnell.)  
 Sidwell, Harold H., Brooklyn, N. Y. Overboard-discharge valve for ships. No. 1,377,633; May 10; v. 286; p. 295.  
 Sieben, George S., assignor of one-half to C. A. Church, Oak Bluffs, Mass. Razor. No. 1,385,280; July 19; v. 288; p. 549.  
 Sieber, Jacob, Olten, Switzerland. Apparatus for operating internal-combustion engines by means of acetylene. No. 1,376,786; May 3; v. 286; p. 76.  
 Sieber Products Mfg. Co. (See Rubin, Adolph, assignor.)  
 Siebert, Adolph G. (See Kropf, Walter R., assignor.)  
 Siebert, Henry, Ulm, Ark. Sheaf-cutting machine. No. 1,382,562; June 21; v. 287; p. 536.  
 Siebert, Irwin, Cleveland, Ohio. Washing-machine. No. 1,381,355; June 14; v. 287; p. 248.  
 Sleck, William, Jr. (See Drucker, S., and Sleck.)  
 Sieter, William H., Wayland, Iowa. Coupling. No. 1,382,324; June 21; v. 287; p. 490.  
 Siegel, Frederick W., Newark, E. J. Boyle, Harrison, and J. M. Sipp, Newark, N. J. Rotatable dice. No. 1,374,243; Apr. 12; v. 285; p. 208.  
 Siegel, Henry M., Malden, Mass. Hair-waver. No. 1,387,797; July 26; v. 288; p. 730.  
 Siegler, Philip C., assignor to The Butterick Publishing Company, New York, N. Y. Sewer's gage. No. 1,392,455; Oct. 4.  
 Siegler, Hugo R., Chicago, Ill. Fastening device. No. 1,368,460; Feb. 15; v. 283; p. 414.  
 Sielaff, Max J., assignor to The Loomis-Sielaff Company, Cleveland, Ohio. Wheel-turning machine. No. 1,366,543; Jan. 23; v. 282; p. 612.  
 Sielaff, Otto R., Livingston, Mont. Show-card holder. No. 1,396,892; Nov. 15.  
 Siemens, Fred W. (See Ryon, Edward A., assignor.)  
 Siemens Gebrüder & Co. (See Dietsche, Otto, assignor.)  
 Siemens & Halske, Aktiengesellschaft. (See Mansel, Paul, assignor.)  
 Siemens & Halske Aktiengesellschaft. (See Nernst, Walther, assignor.)  
 Siemens-Schuckert Werke G. m. b. H. (See Ilg, Max J., assignor.)  
 Siemens-Schuckertwerke G. m. b. H. (See Kurda, Karl, assignor.)  
 Siemens-Schuckertwerke G. m. b. H. (See Rüdenberg, Reinhold, assignor.)  
 Siemens-Schuckertwerke, G. m. b. H. (See Schenkel, Moritz, assignor.)  
 Siemer, Martin, New York, N. Y. Lock. No. 1,373,678; Apr. 5; v. 285; p. 58.  
 Siemon, William H. and H. L. Garbutt, Wilkesburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Trolley-car. No. 1,368,360; Feb. 15; v. 283; p. 394.  
 Siercks, Leo G., Wayne, Nebr. Sled-track. No. 1,377,445; May 10; v. 286; p. 261.  
 Siert, Alvin H. (See Siert, John H., and A. H.)  
 Siert, John H., and A. H., Omaha, Nebr. Laundry-machine. No. 1,380,602; June 7; v. 287; p. 52.  
 Siert, John H. and A. H., Omaha, Nebr. Laundry-machine. No. 1,389,388; Aug. 30; v. 289; p. 915.  
 Siesholtz, Herbert, Allentown, Pa. Strap connection for Jacquard devices. No. 1,378,567; May 17; v. 286; p. 527.  
 Sieurin, Paul W., Gottenborg, Sweden. Friction-coupling. No. 1,368,361; Feb. 15; v. 283; p. 394.  
 Sieurin, Sven E., Höganäs, Sweden. Burning of carbon electrodes. No. 1,390,823; Sept. 13; v. 290; p. 346.  
 Siven, Jacob, Brooklyn, N. Y. Demountable rim. No. 1,365,555; Jan. 11; v. 282; p. 335.  
 Sieverling, Fred A., Great Bend, Kans. Tractor-hitch. No. 1,370,849; Mar. 8; v. 284; p. 253.  
 Sieverling, Fred A., Great Bend, Kans. Tractor-hitch. No. 1,370,850; Mar. 8; v. 284; p. 253.  
 Sievers, Seraphim, Omaha, Nebr. Wall-plug. No. 1,399,407; Dec. 6.  
 Sievert, Ernest E., Manistee, Mich. Wrench. No. 1,368,580; Feb. 15; v. 283; p. 437.  
 Siewers, Walter L., assignor to The Indera Mills, Winston-Salem, N. C. Knit garment. No. 1,374,155; Apr. 5; v. 285; p. 150.  
 Siffert, George, Brooklyn, N. Y. Embossing or printing die or plate and forming the same. No. 1,370,057; Mar. 1; v. 284; p. 57.  
 Siffert, Melancthon P., Navarre, Ohio. Routing-rack. No. 1,372,100; Mar. 22; v. 284; p. 613.  
 Sifford, Luther P., Barstow, Calif. Swimming appliance. No. 1,383,036; June 28; v. 287; p. 680.  
 Sigalon, Antoine, Lyon, assignor to Armand Carrette, Paris, France. Screw-cutting device. No. 1,373,104; Mar. 29; v. 284; p. 850.  
 Sigel, William B., Amelia, assignor, by mesne assignments, to The Stuebing Truck Co., Cincinnati, Ohio. Fluid-check for lifting-trucks. No. 1,401,111; Dec. 20.  
 Siggers, Edward G. (See Porter, Robert S., assignor.)  
 Sights, Casper S., La Harpe, Ill. Inner tube for tires. No. 1,368,063; Feb. 8; v. 283; p. 288.  
 Sigler, William F., Lincoln, Nebr. Combined oil-cup and packing-gland. No. 1,365,556; Jan. 11; v. 282; p. 335.  
 Signal Gesellschaft m. b. H. Firm. (See Hahnemann, Walter, assignor.)  
 Signode System. (See Kimball, Wallace D., assignor.)  
 Sigvart, Frank M., Brooklyn, N. Y. Method and apparatus for making varicolored articles from plastic materials. No. 1,372,164; Mar. 22; v. 284; p. 625.  
 Siino, Gaetano E., Pittsburg, Calif. Spring-tire. No. 1,391,985; Sept. 27; v. 290; p. 718.  
 Sikma, William H., Oakglen, Ill. Cutting and bunching device. No. 1,382,022; June 21; v. 287; p. 434.  
 Sikoror, Joe, Silver Creek, Nebr. Combination article of furniture. No. 1,373,150; Mar. 29; v. 284; p. 860.  
 Sikowski, Frank, Mount Carmel, Pa. Saw-set. No. 1,391,910; Sept. 27; v. 290; p. 701.  
 Silas, Elmer W., Maitland, Fla. Shoe-cleaner. No. 1,377,934; May 10; v. 286; p. 355.



*Alphabetical list of patentees—Continued.*

- Silberman, Samuel G., Philadelphia, Pa. Antiskid attachment for vehicle-wheels. No. 1,378,289; May 17; v. 286; p. 474.
- Silcott, Loudon, Mount Vernon, Ohio. Vehicle-body brace. No. 1,387,190; Aug. 9; v. 289; p. 315.
- Silkworth, Amos P. (See Silkworth, Charles E. and A. P.)
- Silkworth, Charles E. and A. P., Atlantic City, N. J. Game. No. 1,373,679; Apr. 5; v. 285; p. 58.
- Sill, Rush T., Los Angeles, Calif. Machine for electrocyanid chlorination process. No. 1,368,362; Feb. 15; v. 283; p. 394.
- Sill Stove Works. (See Becker, Hugo H. A., assignor.)
- Sills, Frederick R., assignor of one-half to Carolina Motor Company, Statesville, N. C. Dumping-truck. No. 1,380,846; June 7; v. 287; p. 100.
- Sills, Frederick R., assignor of one-half to Carolina Motor Company, Statesville, N. C. Power-shovel. No. 1,394,230; Oct. 18.
- Sills, Laura E., St. Paul, Minn. Portable electric lamp. No. 1,401,820; Dec. 27.
- Sillick, Finley E., Black River Falls, Wis. Rope-buckle. No. 1,368,766; Feb. 15; v. 283; p. 473.
- Silliman, James R., Jr., New York, N. Y. Playing-cards and games. No. 1,390,824; Sept. 13; v. 290; p. 346.
- Silsbee, Joseph L., Salt Lake City, Utah. Producing potassium sulfate and aluminum oxide from alunite or similar material. No. 1,386,031; Aug. 2; v. 289; p. 14.
- Silva, Frank I., Walluku, Hawaii. Socket-wrench. No. 1,395,528; Nov. 1.
- Silva, Franklin J. (See Kahn, M. M., and Silva.)
- Silva, Richard M., Brooklyn, N. Y. Hose-supporter. No. 1,377,031; May 3; v. 286; p. 124.
- Silver, Albert. (See Haun, J. C., and Silver.)
- Silver, Bennett C., Chicago, Ill. Cradle. No. 1,368,849; Feb. 15; v. 283; p. 490.
- Silver, Bennett C., Chicago, Ill. Toy bed. No. 1,398,745; Nov. 20.
- Silver, Conover T., New York, N. Y. Automobile-body and top therefor. No. 1,387,191; Aug. 9; v. 289; p. 315.
- Silver, Herman, assignor to The Loudon Machinery Company, Fairfield, Iowa. Ventilating-cupola for barns and the like. (Reissue.) No. 15,223; Nov. 8.
- Silver, Herman L., Los Angeles, Calif. Dust-cap. No. 1,365,859; Jan. 18; v. 282; p. 434.
- Silver, Joseph A., New York, N. Y. Railway-rail fastening. No. 1,386,536; Aug. 2; v. 289; p. 112.
- Silver, Joseph A., assignor to The Silver Steel Tie Company, New York, N. Y. Railway-tie. No. 1,878,383; May 17; v. 286; p. 491.
- Silver Lock Stitch Sewing Machine Syndicate. (See Barry, Herbert A. L., assignor.)
- Silver, Mangus N., Bergland, Ontario, Canada. Tool handle. No. 1,366,030; Jan. 18; v. 282; p. 467.
- Silver Manufacturing Company, The. (See Haldeman, James C., assignor.)
- Silver Steel Tie Company, The. (See Silver, Joseph A., assignor.)
- Silvera, Theodore E., Philadelphia, Pa. Hair-restorer. No. 1,378,731; May 17; v. 286; p. 559.
- Silverman, Charles, Providence, R. I. Collar-holder. No. 1,370,563; Mar. 8; v. 284; p. 198.
- Silverman, Charles, Providence, R. I. Collar-holder. No. 1,382,023; June 21; v. 287; p. 434.
- Silverman, Charles, Providence, R. I. Button. No. 1,387,948; Aug. 16; v. 289; p. 518.
- Silverman, Charles, Providence, R. I. Collar-holder. No. 1,389,604; Sept. 6; v. 290; p. 9.
- Silverman, Charles, Providence, R. I. Hair-retaining device. No. 1,390,825; Sept. 13; v. 290; p. 346.
- Silverman, Harry, Brooklyn, N. Y. Jewel-mount. No. 1,376,974; May 3; v. 286; p. 113.
- Silverman, Harry A., New York, N. Y. Perforating-iron. No. 1,401,821; Dec. 27.
- Silverman, Harry A., New York, N. Y. Perforating apparatus. No. 1,401,822; Dec. 27.
- Silverman, Samuel. (See Ross, Robert C., assignor.)
- Silvernale, William N., Kawkawlin, Mich., assignor to Benson Electric Company, Valpe. No. 1,374,244; Apr. 12; v. 285; p. 208.
- Silvers, Samuel, Waterloo, Iowa. Delivery device for liquid disinfectants. No. 1,366,426; Jan. 25; v. 282; p. 588.
- Silvers, Samuel, Waterloo, Iowa. Disinfecting brooder. No. 1,384,866; July 19; v. 288; p. 464.
- Silverthorne, Frank H., New York, N. Y. Bottle-stopper. No. 1,366,289; Jan. 18; v. 282; p. 518.
- Silverthorne, Frank H., New York, N. Y. Bottle-closure. No. 1,390,549; Sept. 13; v. 290; p. 290.
- Silvester, Joseph, assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Automobile-seat. No. 1,369,940; Mar. 1; v. 284; p. 35.
- Silvia, Anthony B., Haverhill, Mass. Diaphragm-horn-operating means. No. 1,384,977; July 19; v. 288; p. 487.
- Simantz, Frank, Grand Haven, Mich. Wall construction. No. 1,398,402; Nov. 29.
- Simenowsky, Louis, Milwaukee, Wis. Bottle-stopper. No. 1,369,477; Feb. 22; v. 283; p. 650.
- Simkiss, Edwin, Montreal, assignor of one-half to J. P. W. Thuot, Verdun, Quebec, Canada. Egg-opener. No. 1,372,564; Mar. 22; v. 284; p. 703.
- Simko, Joseph, Chicago, Ill. Razor-blade-sharpening device. No. 1,371,939; Mar. 15; v. 284; p. 526.
- Siml, Bohuslav, Chicago, Ill. Dental amalgam or alloy mixer. No. 1,395,235; Oct. 25.
- Siml, Bohuslav, Chicago, Ill. Dental amalgam or alloy mixer. No. 1,396,537; Nov. 8.
- Simmen, Paul J., Buffalo, N. Y. Automatic speed control for railways. No. 1,383,770; July 5; v. 288; p. 106.
- Simmen, Paul J., Buffalo, N. Y. Speed-control device for moving vehicles. No. 1,391,420; Sept. 20; v. 290; p. 530.
- Simmen, Paul J., Buffalo, N. Y. Automatic train control. No. 1,399,027; Dec. 6.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,376,466; May 3; v. 286; p. 17.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Compressor system. No. 1,376,467; May 3; v. 286; p. 17.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,376,468; May 3; v. 286; p. 17.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,384,490; July 12; v. 288; p. 304.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Connector. No. 1,384,491; July 12; v. 288; p. 304.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,386,032; Aug. 2; v. 289; p. 14.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,389,105; Aug. 30; v. 289; p. 858.
- Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,399,408; Dec. 6.
- Simmons, Alba K., Roanoke, Va. Wheel. No. 1,376,589; May 3; v. 286; p. 40.
- Simmons, Charles A., Albany, N. Y. Tool-holder. No. 1,380,744; June 7; v. 287; p. 80.
- Simmons, Charles B., and R. G. Hughes, assignors to The New Departure Manufacturing Company, Bristol, Conn. Measuring instrument. No. 1,387,622; Aug. 16; v. 289; p. 453.
- Simmons, Charles B., Bristol, assignor to I. S. Bailey, Southington, Conn. Folding drawing-knife. No. 1,400,382; Dec. 13.
- Simmons, Charles H., assignor to L. Z. Simmons, Chicago, Ill. Valve. No. 1,369,137; Feb. 22; v. 283; p. 554.
- Simmons Company. (See Bayer, Matthew F., assignor.)
- Simmons Company. (See Busch, Charles H., assignor.)
- Simmons Company. (See Dillon, Guy, assignor.) (Re-issue.)
- Simmons Company. (See Gall, John F., assignor.)
- Simmons Company. (See Judson, Madison C., assignor.)
- Simmons Company. (See Kusterle, Frank, assignor.)
- Simmons Company. (See Travis, Don C., assignor.)
- Simmons, Frank L., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Brush-holder for magnetic chucks. No. 1,365,285; Jan. 11; v. 282; p. 283.
- Simmons, Frank L., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Connector-plug. No. 1,374,529; Apr. 12; v. 285; p. 264.
- Simmons, Harry, Spokane, Wash. Shield. No. 1,399,446; Dec. 6.
- Simmons, John, Company. (See Rothchild, Joseph, assignor.)
- Simmons, John E., Portland, Oreg. Vehicle-spring. No. 1,379,223; May 24; v. 286; p. 724.
- Simmons, John W., Cleveland, Ohio. Automobile-bumper. No. 1,369,561; Feb. 22; v. 283; p. 667.
- Simmons, John W., Cleveland, Ohio. Automobile-bumper. No. 1,378,906; May 24; v. 286; p. 665.
- Simmons, Leo, Washington, D. C. Guard for protection against holdup-robbers and the like. No. 1,374,770; Apr. 12; v. 285; p. 310.
- Simmons, Leon W., Los Angeles, Calif. Direction-indicating apparatus for automobiles. No. 1,379,130; May 24; v. 286; p. 707.
- Simmons, Leon W., Los Angeles, Calif. Fountain making-brush. No. 1,393,841; Oct. 18.
- Simmons, Leonard F. G. (See Frazer, R. A., and Simmons.)
- Simmons, Lucile Z. (See Simmons, Charles H. and L. Z.)
- Simmons, Paul R., Huntington, Ind. Milk-bottle-capturing machine. No. 1,399,586; Dec. 6.
- Simmons, Peter S., and W. J. Frick, Paterson, N. J. Folding umbrella. No. 1,396,893; Nov. 15.
- Simmons, Ralph, East Orange, N. J. Leaf-spring. No. 1,371,003; Mar. 8; v. 284; p. 282.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-attaching machine. No. 1,366,964; Feb. 1; v. 283; p. 17.
- Simmons, Ralph C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Die. No. 1,368,363; Feb. 15; v. 283; p. 395.
- Simmons, Ralph C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding-machine. No. 1,386,080; Aug. 2; v. 289; p. 24.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for arranging heel-blanks. No. 1,398,345; No. 29.



*Alphabetical list of patentees—Continued.*

- Simmonson, Robert C. (See Dittmann, Halfdan and S. A., and Simmonson.)
- Simms, Irwin B., Stockton, Calif. Combination lock and switch. No. 1,396,667; Nov. 8.
- Simms Magneto Company, The. (See Kliersrath, Victor W., assignor.)
- Simms Magneto Company, The. (See Hoyt, Frederick A., assignor.)
- Simms Magneto Company, The. (See Kliersrath, V. W., and Hoyt, assignors.)
- Simms Magneto Company, The. (See Kliersrath, V. W. and Knopp, assignors.)
- Simms, T. S., & Company. (See Purdy, Simeon D., assignor.)
- Simon, Abraham W., Newark, N. J. Movable bracket-table. No. 1,373,027; Mar. 29; v. 284; p. 836.
- Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Ratcheting mechanism. No. 1,367,283; Feb. 1; v. 283; p. 80.
- Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,378,059; May 17; v. 286; p. 431.
- Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Solenoid-operated valve and the like. No. 1,383,432; July 5; v. 288; p. 36.
- Simon, D. B., et al. (See Nye, Sherman G., assignor.)
- Simon, Ernest J., Guantanamo, Cuba. Ground-detector. No. 1,391,911; Sept. 27; v. 290; p. 701.
- Simon, Frances W., San Francisco, Calif. Skirt-marker. No. 1,371,446; Mar. 15; v. 284; p. 432.
- Simon, George. (See Bartholomew, W., and Simon.)
- Simon, Henry, assignor of one-half to J. W. Skidmore, Laguna Beach, Calif. Combination-square. No. 1,388,612; Aug. 23; v. 289; p. 706.
- Simon, Jacob J. (See Rosenblatt, W., and Simon.)
- Simon, Leopold, New York, N. Y. Screen. No. 1,364,467; Jan. 4; v. 282; p. 80.
- Simon, Leopold, New York, N. Y. Window-screen. No. 1,386,033; Aug. 2; v. 289; p. 15.
- Simon, Louis J., and J. W. Hinchley, assignors of one-third to Standar Chemical Engineering Company, Limited, London, England. Apparatus for extracting oils, fats, grease, wax, india rubber, sulfur, and other substances soluble in organic solvents from materials containing the same. No. 1,381,758; June 14; v. 287; p. 324.
- Simon, Nicholas, Appleton, Wis. Forming blocks of cheese. No. 1,393,915; Oct. 18.
- Simon, Thomas, San Francisco, Calif. Oil-burner. No. 1,387,078; Aug. 9; v. 289; p. 294.
- Simonds, Charles G., Milwaukee, Wis. Fluid-pressure brake. No. 1,365,795; Jan. 18; v. 282; p. 422.
- Simond's Manufacturing Company. (See Culley, Walter E., assignor.) (Reissue.)
- Simonds Manufacturing Company. (See McDonald, Hiram B., assignor.)
- Simone, Domenico, Washington, D. C. Rubber-heel. No. 1,388,773; Aug. 23; v. 289; p. 737.
- Simoneau, Adelard B., Waterville, Me. Picker-action for looms. No. 1,373,028; Mar. 29; v. 284; p. 836.
- Simoneau, Adelard B., Waterville, Me. Harness action for looms. No. 1,378,732; May 17; v. 286; p. 559.
- Simonetta, Giuseppe, and A. Rosa, Milan, Italy. Automatic telephone system. No. 1,390,729; Sept. 13; v. 290; p. 327.
- Simons, Frank, St. Louis, Mo. Seesaw. No. 1,378,733; May 17; v. 286; p. 559.
- Simons, Frederick W., Jr., New York, N. Y. Mud-guard. No. 1,389,014; Aug. 30; v. 289; p. 840.
- Simons, Reuben G., Los Angeles, Calif. Building-tile. No. 1,387,809; Aug. 16; v. 289; p. 491.
- Simons, Sidney G., Columbus, Ga. Nutcracker. No. 1,388,071; Aug. 16; v. 289; p. 541.
- Simonsen, Theodor, Jersey City, N. J. Miter-box. No. 1,373,105; Mar. 29; v. 284; p. 850.
- Simonson, Walter H., Brooklyn, and O. Manitus, Englewood, N. Y. Reclaiming sludge acid in petroleum-refining. No. 1,384,978; July 19; v. 288; p. 487.
- Simplex Corporation. (See De Martino, Joseph, assignor.)
- Simplex Ice Machine Company. (See Moore, Harrison E., assignor.)
- Simplex Manufacturing Company. (See Sanderson, William, assignor.)
- Simplex Pneumatic Tire Company. (See Emeno, William H., assignor.)
- Simplex Refrigerating Corporation. (See Williams, Edward T., assignor.)
- Simplex Train Control Company. (See Ruthven, Alfred L., assignor.)
- Simple Fullfeder Gesellschaft Voss, Lausen & Dziambor Fabrik fur Fullfederhalter und Goldfedern. (See Dziambor, Wilhelm G. H., assignor.)
- Simpson, A. B., et al. (See Lukens, W. R., and Gallagher, assignors.)
- Simpson, Albert, Falun, Alberta, Canada. Paper-dispensing device. No. 1,384,640; July 12; v. 288; p. 337.
- Simpson, Albert R., Dorchester, Nebr. Ironing-board. No. 1,368,660; Feb. 15; v. 283; p. 453.
- Simpson, Alfred M., Honolulu, Hawaii. Rotary cutter. No. 1,396,600; Nov. 8.
- Simpson, Arthur M. (See Simpson, George N., A. M., and W. H.)
- Simpson, Bryant, Washington, D. C. Collar-protector. No. 1,369,562; Feb. 22; v. 283; p. 667.
- Simpson, Clarence H., Front Royal, Va. Food product and making same. No. 1,389,389; Aug. 30; v. 289; p. 915.
- Simpson, Clarence O., St. Louis, Mo. Film-mounting. No. 1,381,674; June 14; v. 287; p. 308.
- Simpson, Emory G., assignor to Fisher Body Corporation, Detroit, Mich. Rotary broaching-machine. No. 1,376,734; May 3; v. 286; p. 67.
- Simpson, Emory G., assignor to Fisher Body Corporation, Detroit, Mich. Window-supporting latch. No. 1,381,675; June 14; v. 287; p. 308.
- Simpson, Emory G., assignor to Fisher Body Corporation, Detroit, Mich. Window-supporting device. No. 1,381,676; June 14; v. 287; p. 308.
- Simpson, Emory G., Highland Park, assignor to Fisher Body Corporation, Detroit, Mich. Windshield construction. No. 1,392,880; Oct. 4.
- Simpson, Emory G., assignor to Fisher Body Corporation, Detroit, Mich. Door-lock. No. 1,401,369; Dec. 27.
- Simpson, Evelyn L., Waterville, Me. Pie marker and trimmer. No. 1,377,974; May 10; v. 286; p. 362.
- Simpson, George N., and R. W. Williams, Chicago, Ill., assignors to Car Dumper & Equipment Company. Car-stops. No. 1,378,568; May 17; v. 286; p. 527.
- Simpson, George N., A. M., and W. H., Chicago, Ill. Rotary car-dumper. No. 1,397,936; Nov. 22.
- Simpson, George W., Bristow, Okla. Tube-cutting device. No. 1,394,124; Oct. 18.
- Simpson, George W. S., London, England, and R. F. Lyle, Greenock, Scotland. Filtration of sugar liquors. No. 1,401,199; Dec. 27.
- Simpson, Harry A., Cicero, Ill. Disappearing plumbing-fixture. No. 1,367,896; Feb. 8; v. 283; p. 257.
- Simpson, Herbert J., Norton-on-Tees, England. Mechanical starter for internal-combustion engines. No. 1,375,472; Apr. 19; v. 285; p. 507.
- Simpson, Hobart A. (See Stockdale, F. B., and Simpson.)
- Simpson, Jacob, Washington, D. C. Printing-plate-trimming machine. No. 1,394,765; Oct. 25.
- Simpson, James E., Brooklyn, N. Y. Typewriting-machine. No. 1,365,737; Jan. 18; v. 282; p. 410.
- Simpson, James, and H. E. Clay, McKeesport, Pa. Apparatus for handling and forming pipe-skeels. No. 1,391,912; Sept. 27; v. 290; p. 702.
- Simpson, John T., Newark, N. J. Chair and spacer. No. 1,365,126; Jan. 11; v. 282; p. 252.
- Simpson, John T., Newark, N. J. Reinforced-concrete building. No. 1,392,532; Oct. 4.
- Simpson, John T., assignor to Economy Sales Company, Chicago, Ill. Furnace-grate. No. 1,391,014; Sept. 20; v. 290; p. 447.
- Simpson, John W., Santa Barbara, Calif. Air-nozzle for locomotive-sanders. No. 1,382,862; June 28; v. 287; p. 647.
- Simpson, Joseph R., Lone Oak, Tex. Internal-combustion engine. No. 1,386,965; Aug. 9; v. 289; p. 271.
- Simpson, Leon G., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens-grinding machine. No. 1,381,245; June 14; v. 287; p. 228.
- Simpson, Leon G., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens-grinding machine. No. 1,381,246; June 14; v. 287; p. 228.
- Simpson, Leon G., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Lens-grinding machine. No. 1,381,247; June 14; v. 287; p. 228.
- Simpson, Nelson L., Corona, N. Y. Musical tablature for flutes. No. 1,390,933; Sept. 13; v. 290; p. 368.
- Simpson, Richard M. (See Robertson, D., and Simpson.)
- Simpson, Walter H. (See Simpson, George N., A. M., and W. H.)
- Simpson, Warren B., Huntingdon, Pa. Insulator-bracket. No. 1,378,140; May 17; v. 286; p. 446.
- Simpson, Warren W. (See Menges, L. A., and Simpson.)
- Simpson, William M. (See Shannon, J., and Simpson.)
- Sims, Benton E., Oxford, Ala. Cultivator attachment. No. 1,394,367; Oct. 18.
- Sims, Ernest M., assignor to Metal Forming Corporation, Elkhart, Ind. Textile-bobbin. No. 1,368,901; Feb. 15; v. 283; p. 516.
- Sims, Frederick L. H., Toronto, Ontario, Canada. Clamp. No. 1,382,024; June 21; v. 287; p. 434.
- Sims, Frederick L. H., Toronto, Ontario, Canada. Clamp. No. 1,391,015; Sept. 20; v. 290; p. 447.
- Simsom, Julian S., Philadelphia, Pa. Automatically regulating the addition of a treating agent to water. No. 1,388,613; Aug. 23; v. 289; p. 706.
- Sincak, George, Bridgeport, Conn. Combined window and transom. No. 1,375,186; Apr. 19; v. 285; p. 453.
- Sinclair, Alfred C., assignor to Sinclair Motor Co., Inc., New Orleans, La. Air-cooled engine. No. 1,366,707; Jan. 25; v. 282; p. 644.
- Sinclair, Alfred J., Dayton, Ohio. Tuning device for wind musical instruments. No. 1,365,860; Jan. 18; v. 282; p. 434.
- Sinclair, George, Taylors Falls, Minn. Treating liquids. No. 1,397,550; Nov. 22.
- Sinclair, James, Brodumbury, Saskatchewan, Canada. Bag-holder. No. 1,386,658; Aug. 9; v. 289; p. 298.
- Sinclair, John, et al. (See Welch, James G., assignor.)
- Sinclair Motor Co. (See Sinclair, Alfred C., assignor.)
- Sinclair, Neil, assignor to The Rip Van Winkle Wall Bed Company, Oakland, Calif. Extensible bed. No. 1,380,502; June 7; v. 287; p. 34.



*Alphabetical list of patentees—Continued.*

- Sinclair, Paul, South Williamsport, Pa. Machine for making mantles. No. 1,391,515; Sept. 20; v. 290; p. 549.
- Sinfield, Edward, and W. H. Goldfinch, assignors of one-third to A. W. Capener, London, England. Horseshoe-pad. No. 1,391,655; Sept. 20; v. 290; p. 577.
- Singer, Benjamin, St. Louis, Mo. Lock for doors, windows, and the like. No. 1,399,897; Dec. 13.
- Singer, Bernard J. (See Singer, William O., and B. J.)
- Singer, George P., and R. J. Hickman, assignors to Chain Belt Company, Milwaukee, Wis. Machine for inserting pins into hollow articles. No. 1,386,372; Aug. 2; v. 289; p. 80.
- Singer, Joseph, Los Angeles, Calif. Wrist-pin grinder. No. 1,393,046; Oct. 11.
- Singer, Joseph B., Brooklyn, and A. B. Levy, New York, N. Y. Combined carton and display device. No. 1,387,192; Aug. 9; v. 289; p. 316.
- Singer, Julius, New York, N. Y. Pan-rack. No. 1,394,947; Oct. 25.
- Singer, Louis D., Harrodsburg, Ky. Wax flowers and making them. No. 1,400,324; Dec. 13.
- Singer Manufacturing Company, The. (See Allen, Edward B., assignor.)
- Singer Manufacturing Company, The. (See Allen, E. B., and Faulkner, assignors.)
- Singer Manufacturing Company, The. (See Barron, W. L., and Fifeild, assignors.)
- Singer Manufacturing Company, The. (See Barron, W. L., and Osol, assignors.)
- Singer Manufacturing Company, The. (See Barron, W. L., and Michener, assignors.)
- Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)
- Singer Manufacturing Company, The. (See Chason, Daniel H., assignor.)
- Singer Manufacturing Company, The. (See Crockett, William P., assignor.)
- Singer Manufacturing Company, The. (See Corral, Herbert, assignor.)
- Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
- Singer Manufacturing Company, The. (See Fifeild, Albert F., assignor.)
- Singer Manufacturing Company, The. (See Finch, John S., assignor.)
- Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)
- Singer Manufacturing Company, The. (See Grieb, Alfred, assignor.)
- Singer Manufacturing Company, The. (See Harmon, Frank L., assignor.)
- Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
- Singer Manufacturing Company, The. (See Herr, Park A., assignor.)
- Singer Manufacturing Company. (See Hleb, Peter, assignor.)
- Singer Manufacturing Company, The. (See Jackson, George, assignor.)
- Singer Manufacturing Company, The. (See Krause, Hugo C., assignor.)
- Singer Manufacturing Company, The. (See Molyneux, George E., assignor.)
- Singer Manufacturing Company, The. (See Noble, Donald, assignor.)
- Singer Manufacturing Company, The. (See Ostrom, F. W., and Webb, assignors.)
- Singer Manufacturing Company, The. (See Ringe, John C., assignor.)
- Singer Manufacturing Company, The. (See Thomas, C. W., and Bradley, assignors.)
- Singer Manufacturing Company, The. (See Webb, Irving F., assignor.)
- Singer, William O., and B. J. Cresson, Pa. Wrench. No. 1,382,685; June 28; v. 287; p. 613.
- Singers, Earl H., Heltonville, and R. Lofland, assignors to Cement Products Company, Worthington, Ind. Silo. No. 1,372,837; Mar. 29; v. 284; p. 797.
- Singleton-Griesbach, Henry, Liverpool, England. Sparking plug. No. 1,378,569; May 17; v. 286; p. 527.
- Singmaster, James A., Pelmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Manufacture of French oxid. No. 1,372,462; Mar. 22; v. 284; p. 683.
- Sinkiewicz, Joseph C. (See Masaitis, Charles A., assignor.)
- Sinnett, Earl W., assignor of forty-nine one-hundredths to H. A. Sinnett, Grand Rapids, Mich. Trolley. No. 1,365,201; Jan. 11; v. 282; p. 266.
- Sinnett, Henry A. (See Sinnett, Earl W., assignor.)
- Sipe, James B., Pittsburgh, Pa. Egg-carrier. No. 1,398,045; Nov. 22.
- Sipp, Grant, Paterson, N. J. Warping and beaming machine. No. 1,401,655; Dec. 27.
- Sipp, John M. (See Siegel, F. W., Boyle, and Sipp.)
- Siraco, Nicholas A. (See Hammond, Harry E., assignor.)
- Sirch, Charles W., Los Angeles, Calif. Filter. No. 1,398,205; Nov. 22.
- Sirls, Abner, Brooklyn, N. Y. Toilet-article package. No. 1,383,867; July 5; v. 288; p. 126.
- Sirof, Harry. (See Sirof, Hyman and H.)
- Sirof, Hyman and H., New York, N. Y. Self-illuminator for reading and writing. No. 1,385,798; July 26; v. 288; p. 731.
- Sisbower, George F., and L. E. Pittoni, assignors to New York Couch Bed Company, New York, N. Y. Couch-hammock. No. 1,369,563; Feb. 22; v. 283; p. 667.
- Sisbower, George F., Flushing, and L. E. Pittoni, New York, assignors to Manhattan-Rome Company, branch of Rome Metallic Bedstead Co., Long Island City, New York, N. Y. Couch-hammock. No. 1,401,286; Dec. 27.
- Sisson, Eugene, Hudson, N. Y. Button-sewing machine. No. 1,375,235; Apr. 19; v. 285; p. 462.
- Sissel, John H., Masonville, Iowa. Popcorn-busking device. No. 1,386,207; Aug. 2; v. 289; p. 49.
- Sissel, John H., Masonville, Iowa. Tractor structure. No. 1,401,287; Dec. 27.
- Sisson, Vinton E., assignor to The Pressed Steel Manufacturing Company, Chicago, Ill. Railway-car-roof structure. No. 1,376,469; May 3; v. 286; p. 17.
- Sisson, Vinton E., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. Reinforcement for the end walls of railway box-cars. No. 1,382,025; June 21; v. 287; p. 434.
- Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Reinforced-sheet-metal end wall for railway-cars. No. 1,387,079; Aug. 9; v. 289; p. 294.
- Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Railway-car construction. No. 1,388,901; Aug. 30; v. 289; p. 817.
- Sistarelli, Dorothy L., *et al.* (See Capell, Carl F., assignor.)
- Sitney, Massey, Brooklyn, N. Y. Power-transmission mechanism. No. 1,364,325; Jan. 4; v. 282; p. 54.
- Sitney, Massey, Brooklyn, N. Y. Clutch mechanism. No. 1,394,448; Oct. 18.
- Sitta, Methold F., Chicago, Ill. Typewriter-desk. No. 1,370,373; Mar. 1; v. 284; p. 117.
- Sitta, Methold F., Chicago, Ill. Typewriter cabinet-desk. No. 1,388,072; Aug. 16; v. 289; p. 542.
- Sivard, Reuben A., Oklahoma, Okla. Violin. No. 1,384,492; July 12; v. 288; p. 305.
- Siwecki, Felix G., Chicago, Ill. Locking device for automobiles. No. 1,400,243; Dec. 13.
- Sizaire, Maurice H. L., London, England. Dashboard of automobile vehicles. No. 1,371,522; Mar. 15; v. 284; p. 447.
- Sizer, Albert W., Hessler, near Kingston-upon-Hull, England. Worm-screw of extrusion and like presses. No. 1,384,679; July 12; v. 288; p. 345.
- Sitz, Clara B., Washington, D. C. Hairpin. No. 1,392,711; Oct. 4.
- Sitzler, Guy A., Tacoma, assignor to Dutho Rubber Company, Pierce county, Wash. Three-piece mold. No. 1,396,293; Nov. 8.
- Sjoberg, Sidney T. (See Payne, H. D., De Clerque, and Sjoberg.)
- Sjoholm, David W., Bridgeport, Conn. Punch-holder. No. 1,365,738; Jan. 18; v. 282; p. 410.
- Sjokvist, Frans G. H. and E. A. Eriksson, assignors to Aktiebolaget C. E. Johansson, Eskilstuna, Sweden. Instrument for inspecting and testing surfaces and angles. No. 1,365,286; Jan. 11; v. 282; p. 283.
- Sjoman, Carl, Winnipeg, Manitoba, Canada. Necktie-retainer. No. 1,364,326; Jan. 4; v. 282; p. 54.
- Sjostrom, John E., Company. (See Peterson, Axel, assignor.)
- Sjostrom, Victor, Los Angeles, Calif. Gas heating appliance. No. 1,376,650; May 3; v. 286; p. 51.
- Skadan, Floyd C. (See Shaw, R. C., and Skadan.)
- Skarl, Henry, Cleveland, Ohio. Piston-packing. No. 1,395,603; Nov. 1.
- Skarnes, Jay A., assignor to Bull Tractor Company, Minneapolis, Minn. Tractor. No. 1,372,321; Mar. 22; v. 284; p. 656.
- Skarynski, John, assignor of one-half to J. Smollenski, South Amboy, N. J. Trap. No. 1,392,666; Oct. 4.
- Sked, Norman S., Pennington, N. J., assignor to American Telephone and Telegraph Company. Anchoring device. No. 1,368,296; Feb. 15; v. 283; p. 381.
- Skeen, Samuel T., Sandoval, assignor of one-half to C. E. Stead, Centralia, Ill. Miner's drill. No. 1,386,434; Aug. 2; v. 287; p. 92.
- Skeffington, Patrick J., New York, N. Y. Washing-machine. No. 1,385,404; July 26; v. 288; p. 649.
- Skelly, Bernard H., Bridgeport, Conn. Sight-feed for force-feed lubricators. No. 1,367,630; Feb. 8; v. 283; p. 205.
- Skelly, Bernard H., Bridgeport, Conn. Lubricating system. No. 1,372,565; Mar. 22; v. 284; p. 703.
- Skelly, Bernard H., Bridgeport, Conn. Dust-cap for lubricating cups or nipples. No. 1,398,577; Nov. 29.
- Skelly, John S., Monongahela, Pa., assignor to Combustion Engineering Corporation, New York, N. Y. Stoker-furnace. No. 1,393,979; Oct. 18.
- Skelton, Charles E., East Onondaga, N. Y. Reamer. No. 1,397,706; Nov. 22.
- Skerl, Francisco, assignor to The National Cash Register Company, Dayton, Ohio. Ticket-printing machine. No. 1,382,938; June 28; v. 287; p. 661.



## Alphabetical list of patentees—Continued.

- Skerl, Francesco, New York, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Ticket printing and issuing mechanism. No. 1,385,756; July 26; v. 288; p. 722.
- Skidmore, Benjamin, Jr., Chicago, Ill. Suction-creating apparatus. No. 1,382,444; June 21; v. 287; p. 514.
- Skidmore, Benjamin, Jr., Chicago, Ill. Fluid-displacing apparatus. No. 1,390,390; Sept. 13; v. 290; p. 258.
- Skidmore, Benjamin, Jr., Chicago, Ill. Fluid-pump. No. 1,390,391; Sept. 13; v. 290; p. 258.
- Skidmore, Benjamin, Jr., Chicago, Ill. Hydraulic air-compressor and vacuum-producer. No. 1,392,854; Oct. 4.
- Skidmore, Benjamin, Jr., Chicago, Ill. Hydraulic air-compressor and vacuum-producer. No. 1,392,855; Oct. 4.
- Skidmore, Benjamin, Jr., Chicago, Ill. Hydraulic air-compressor and vacuum-producer. No. 1,392,856; Oct. 4.
- Skidmore, Benjamin, Jr., Chicago, Ill. Hydraulic air-compressor and vacuum-producer. No. 1,392,857; Oct. 4.
- Skidmore, John, Guelph, Ontario, Canada. Double combined golfer's seat with shades and utensil-hangers. No. 1,383,771; July 5; v. 288; p. 107.
- Skidmore, Joseph W. (See Simon, Henry, assignor.)
- Skiles, Ira T., Long Beach, Calif. Attachment for bathtubs. No. 1,365,202; Jan. 11; v. 282; p. 266.
- Skilkins, John T. (See Gabriel, G. A., and Skillins.)
- Skinder, Joseph K., Kenosha, Wis. Vise. No. 1,375,236; Apr. 19; v. 285; p. 462.
- Skinner, Elmon J., et al. (See Smith, Adelbert, assignor.)
- Skinner, Frederick E., et al. (See Turner, Alan L., assignor.)
- Skinner, James M. (See Holland, W. B., and Skinner.)
- Skinner, John F. (See Vincent, H. H., and Skinner.)
- Skinner, Lewis B., Denver, Colo. Heat-regenerator. (Re-issue.) No. 15,052; Feb. 22; v. 283; p. 708.
- Skinner, Lewis B., Denver, Colo. Feeding apparatus. No. 1,375,643; Apr. 19; v. 285; p. 540.
- Skinner Machinery Company. (See McIntyre, Allen H., assignor.)
- Skinner, Mortimer B., Wilmette, Ill. Valve-stem-resurfacing tool. No. 1,369,138; Feb. 22; v. 283; p. 585.
- Skinner, Ralph L., Sacramento, Calif. Indicator. No. 1,389,909; Sept. 6; v. 290; p. 71.
- Skinner, Stephen G., Wilmette, Ill. Windshield-cleaner. No. 1,395,604; Nov. 1.
- Sklar, John, Brooklyn, N. Y. Tonsillotome. No. 1,394,867; Oct. 25.
- Skociokh, John. (See Karabin, M., Skociokh, and Mandl.)
- Skoglund, Joseph A., St. Paul, Minn. Brush. No. 1,373,455; Apr. 5; v. 285; p. 15.
- Skogman, Julius H., Joplin, Mo. Emergency-tire for automobiles. No. 1,400,915; Dec. 20.
- Skolfield, Constance M., New Orleans, La. Gage. No. 1,401,000; Dec. 20.
- Skolnik, Max, Minneapolis, Minn. Making hubs. No. 1,385,231; July 19; v. 288; p. 539.
- Skoog, Sigurd A., Gladstone, Mich. Train-pipe coupling. No. 1,372,566; Mar. 22; v. 284; p. 703.
- Skóra, Alojzy, Passaic, N. J. Door-lock. No. 1,379,839; May 31; v. 286; p. 915.
- Skott, Christian, M. J. Rogne, and E. J. Rogne, Milwaukee, Wis. Power-driven post-hole excavator. No. 1,376,045; Apr. 26; v. 285; p. 648.
- Skrenka, Henry, New York, N. Y. Stage-costume appliance. No. 1,398,153; Nov. 22.
- Skrmetti, Millie, Oakland, Calif. Fishing apparatus. No. 1,366,749; Jan. 25; v. 282; p. 653.
- Skuse, Fred T., Kirkland, Wash. Poultry-feed apparatus. No. 1,400,833; Dec. 20.
- Skutnik, Antoni, Dickson City, Pa. Padlock. No. 1,384,277; July 12; v. 288; p. 260.
- Skuttle, John L., Mason City, Iowa. Float-valve. No. 1,368,364; Feb. 15; v. 283; p. 395.
- Skuttle, John L., Mason City, Iowa. Gas-heater. No. 1,384,493; July 12; v. 288; p. 305.
- Skworchinsky, John. (See Addis, Charles N., assignor.)
- Slabinski, Edward E., Lockport, N. Y. Hospital-bed. No. 1,373,151; Mar. 29; v. 284; p. 860.
- Slack, Ellsworth, Miamisburg, Ohio. Tobacco-packer. No. 1,397,060; Nov. 15.
- Slack, Frederic W., assignor to The Peerless Motor Car Company, Cleveland, Ohio. Internal-combustion engine. No. 1,368,661; Feb. 15; v. 283; p. 453.
- Slack, Harry F., Hove, assignor to S. S. Booty, Ealing, London, England. Box or receptacle for face-powder. No. 1,375,938; Apr. 26; v. 285; p. 628.
- Slack, John T., Corporation. (See Jacobs, Julian S., assignor.)
- Slack, John W., assignor to Columbia Postal Supply Company, Silver Creek, N. Y. Canceling device. No. 1,401,742; Dec. 27.
- Slack, Walter W. (See Winestock, Otto C., assignor.)
- Slady, Frank W., assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Flashlight. No. 1,369,564; Feb. 22; v. 283; p. 667.
- Sladden, Sidney C., New York, N. Y. Service-bracket for telephone-receivers. No. 1,384,101; July 12; v. 288; p. 224.
- Slade, Harry S., McKeesport, Pa. Attachment for tooth-paste tubes. No. 1,386,966; Aug. 9; v. 289; p. 271.
- Slade, Walter W., Brookline, assignor to Globe Optical Company, Boston, Mass. Lens-cutting machine. No. 1,388,774; Aug. 23; v. 289; p. 737.
- Sladek, Charles J., Chicago, Ill. Toy automobile. No. 1,399,667; Dec. 6.
- Slag Rock Machine Company. (See Hurst, Willis T., assignor.)
- Slagle, Eugene H., Ennis, Tex. Carbon-removing tool. No. 1,374,530; Apr. 12; v. 285; p. 264.
- Slama, Franz, and H. Wolf, Ludwigshafen-on-the-Rhine, Germany, assignors to General Chemical Company, New York, N. Y. Oxidation of sulfur dioxide and catalyst therefor. No. 1,371,004; Mar. 8; v. 284; p. 282.
- Slasor, Kate, Seattle, Wash. Footwear-protector. No. 1,382,748; June 28; v. 287; p. 625.
- Slater, Dwight C., Essex Junction, Vt. Variable-speed-transmission mechanism. No. 1,383,159; June 28; v. 287; p. 703.
- Slater, Fred M. (See Bayles, L. C., and Slater.)
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Independent rotation for percussive tools. No. 1,370,923; Mar. 8; v. 284; p. 267.
- Slater, Fred M., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Support for rotating stope-drills. No. 1,382,325; June 21; v. 287; p. 490.
- Slater, Guy P., Tulsa, Okla. Derrick. No. 1,393,842; Oct. 18.
- Slater, Harry, Methuen, Mass. Spindle-whirl lock. No. 1,369,907; Mar. 1; v. 284; p. 29.
- Slater, Harry, Methuen, Mass. Bearing for high-speed fliers. No. 1,369,908; Mar. 1; v. 284; p. 29.
- Slater, Harvey, assignor to Charles F. Elmes Engineering Works, Chicago, Ill. Valve. No. 1,378,141; May 17; v. 286; p. 446.
- Slater, Henry B., Riverside, Calif. Electrolytic production of hypochlorite solutions. No. 1,397,239; Nov. 15.
- Slater, Jasper P., assignor of one-half to J. M. Chase, Charleston, W. Va. Horseshoe. No. 1,390,171; Sept. 6; v. 290; p. 123.
- Slater, William E., assignor to Buffalo Automobile Spring Company, Inc., Buffalo, N. Y. Leaf-spring. No. 1,390,649; Sept. 13; v. 290; p. 312.
- Slathar, Fritz, Eau Claire, Wis. Beet-harvester. No. 1,378,427; May 17; v. 286; p. 500.
- Slaughan, Solomon S., Homestead Park, Pa. Chain grate. No. 1,382,686; June 28; v. 287; p. 614.
- Slaughter, Joseph W., Brooklyn, N. Y., assignor to Standard Tobacco Stemmer Company. Tobacco-stemming machine. No. 1,397,551; Nov. 22.
- Slauson, Louis E., Moline, assignor to Grid-Iron-Grip Company, Rock Island, Ill. Tractor-wheel. No. 1,393,707; Oct. 11.
- Slauson, Louis E., assignor to Grid-Iron-Grip Company, Rock Island, Ill. Traction-wheel. No. 1,393,708; Oct. 11.
- Slauson, Louis E., assignor to Grid-Iron-Grip Company, Rock Island, Ill. Traction-shoe. No. 1,393,709; Oct. 11.
- Slawson, George H., Salem, Mo. Mud-chain. No. 1,372,373; Mar. 22; v. 284; p. 666.
- Slaybaugh, Gerald R. (See Hensel, E. A., and Slaybaugh.)
- Slaymaker, George D., Detroit, Mich. Demountable wheel. No. 1,364,327; Jan. 4; v. 282; p. 54.
- Slayton, Samuel, assignor, by mesne assignments, to J. D. Greys, San Francisco, Calif. Signaling device. No. 1,370,229; Mar. 1; v. 284; p. 90.
- Sleder, Emil A., Detroit, Mich. Advertising device. No. 1,399,409; Dec. 6.
- Sieffel, William J., Lakewood, assignor to The Kirk-Latty Manufacturing Company, Cleveland, Ohio. Machine for making nuts. No. 1,400,244; Dec. 13.
- Sleeper, Frank H., assignor to Sleeper & Hartley, Inc., Worcester, Mass. Spring-winding machine. No. 1,368,297; Feb. 15; v. 283; p. 282.
- Sleeper & Hartley. (See Sleeper, Frank H., assignor.)
- Sleicher, William N., Troy, N. Y. Anchor-yoke for non-skid chains. No. 1,367,209; Feb. 1; v. 283; p. 65.
- Slemmer, Frank G., Centerville, Md. Priming device. No. 1,374,401; Apr. 12; v. 285; p. 239.
- Slepián, Joseph. (See Chubb, L. M., and Slepián.)
- Slepián, Joseph, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,371,523; Mar. 15; v. 284; p. 447.
- Slepián, Joseph, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal for electrolytic condensers. No. 1,381,356; June 14; v. 287; p. 248.
- Slepián, Joseph, assignor to Westinghouse Electric & Manufacturing Company, Wilkensburg, Pa. Constant-temperature device. No. 1,367,102; Feb. 1; v. 283; p. 44.
- Slepián, Joseph, Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Liquid-rheostat. No. 1,376,470; May 3; v. 286; p. 18.
- Slepián, Joseph, Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrolytic condenser. No. 1,395,304; Nov. 1.
- Slepián, Joseph, Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrolytic condenser. No. 1,395,305; Nov. 1.
- Sletmore, Edward B. (See Hammer, Cecil A., assignor.)
- Slick, Edwin E., Westmont borough, Pa. Wheel. No. 1,377,634; May 10; v. 286; p. 296.
- Slider, Harold R. (See Slider, W. T. and H. R.)
- Slider, William T. and H. R., Indianapolis, Ind. Micrometer. No. 1,391,016; Sept. 20; v. 290; p. 447.



*Alphabetical list of patentees—Continued.*

- Sliding Valves Incorporated. (See Wilson, Wylie G., assignor.)
- Sligh, Tom S., Washington, D. C. Nut-branding machine. No. 1,370,851; Mar. 8; v. 284; p. 253.
- Slind, Donald P., Ryley, Alberta, Canada. Lock. No. 1,380,503; June 7; v. 287; p. 34.
- Slinger, Frank. (See Pickard, A. G., and Slinger.)
- Slinger, Robert P. (See Connor, R. D., and Slinger.)
- Slinger, William J., St. Louis, Mo. Automobile heating device. No. 1,375,939; Apr. 26; v. 285; p. 629.
- Slingerland, William A., Portland, Oreg. Chronometer. No. 1,395,154; Oct. 25.
- Slingluff, Harry G., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Glass-drawing process. No. 1,364,895; Jan. 11; v. 282; p. 207.
- Slingluff, Harry G., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company. Process and apparatus for severing sheet-glass. No. 1,373,533; Apr. 5; v. 284; p. 30.
- Slingluff, Harry G., Mount Vernon, Ohio, assignor to Pittsburgh Plate Glass Company. Drawing sheet-glass. No. 1,376,975; May 3; v. 286; p. 114.
- Slisman, Samuel, Chelsea, Mass. Gasolene-tank. No. 1,382,863; June 28; v. 287; p. 647.
- Sliter, Egbert J. (See Gamble, R., and Sliter.)
- Sloan, Edward O. (See Ginnery, W. A., and Sloan.)
- Sloan, Harry E., Hartford, Conn. Tooth-cutting machine and hob therefor. No. 1,372,725; Mar. 29; v. 284; p. 774.
- Sloan, Harry E., Hartford, Conn. Chuck-jaw. No. 1,372,726; Mar. 29; v. 284; p. 774.
- Sloan-Striker Company. (See Royer, Lloyd D., assignor.)
- Sloane Brothers. (See Sloane, Max, assignor.)
- Sloane, Max, assignor to Sloane Brothers, Brooklyn, N. Y. Fastener for handbags. No. 1,392,712; Oct. 4.
- Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-locomotive. No. 1,389,076; Aug. 30; v. 289; p. 853.
- Slobin, Louis, Newark, and H. Kaufman, Roselle, N. J. Metal-bud corner-stock. No. 1,372,463; Mar. 22; v. 284; p. 683.
- Sloboda, Joseph, Charleroi, Pa. Milk-boiler. No. 1,392,664; Oct. 4.
- Slobodzian, Szymon, and J. Oberleitner, Newark, N. J. Dispensing-receptacle. No. 1,365,567; Jan. 11; v. 282; p. 335.
- Slocumb, George W., Los Angeles, Calif. Pump. No. 1,391,799; Sept. 27; v. 290; p. 678.
- Slocumb, John T., Providence, R. I. Steam cooking vessel. No. 1,384,102; July 12; v. 288; p. 224.
- Slocumbe, Frank E., assignor to Pilkington Brothers Limited, St. Helens, England. Apparatus for grinding and polishing plate-glass. No. 1,384,278; July 12; v. 288; p. 261.
- Slocum, Conrad A., Denver, Colo. Four-wheel drive mechanism for tractors and the like. No. 1,364,817; Jan. 4; v. 282; p. 148.
- Slocum, Conrad A., Sedro Woolley, Wash. Variable-speed power transmission. No. 1,378,570; May 17; v. 286; p. 527.
- Slocum, Harry F., Santa Ana, Calif. Mechanical rectifier for magnetos of automobiles. No. 1,370,230; Mar. 1; v. 284; p. 90.
- Slocum, Leslie G. S., deceased, San Francisco, Calif.; B. E. Woodward, administrator. Curtain-carrier. No. 1,364,458; Jan. 4; v. 282; p. 80.
- Slocum, Luna G. (See Garrison, Lyle, assignor.)
- Slocum, Maurice G., St. Joseph, Mo. Apparatus for the production of a chlorin solution. No. 1,376,471; May 3; v. 286; p. 18.
- Slover, Joseph, assignor to Cyclone Fence Company, Waukegan, Ill. Expansion joint or coupling. No. 1,369,198; Feb. 22; v. 283; p. 596.
- Sloper, Thomas, Devizes, England. Vehicle-tire. No. 1,365,530; Jan. 11; v. 282; p. 295.
- Sloper, Thomas, Devizes, England. Manufacturing the covers of pneumatic tires. No. 1,372,567; Mar. 22; v. 284; p. 703.
- Sloper, Thomas, Devizes, England. Press. No. 1,382,326; June 21; v. 287; p. 490.
- Sloper, Thomas, Devizes, England. Apparatus and method for handling rubber goods. No. 1,399,898; Dec. 13.
- Sloper, Willard A., Independence, Oreg. Crosscut-saw tool. No. 1,369,565; Feb. 22; v. 283; p. 667.
- Sloss, Louis. (See Rankin, Harry D., assignor.)
- Sloze, Benjamin, New York, N. Y. Belt-buckle attachment. No. 1,382,130; June 21; v. 287; p. 453.
- Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Call-metering system. No. 1,387,668; Aug. 16; v. 289; p. 462.
- Slough, Frank M., Elyria, Ohio, assignor, by mesne assignments, to Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y. Telephone system. No. 1,387,669; Aug. 16; v. 289; p. 462.
- Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Electric translator. No. 1,391,586; Sept. 20; v. 290; p. 563.
- Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Subscriber-operated telephone system. No. 1,391,587; Sept. 20; v. 290; p. 563.
- Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone-service system. No. 1,391,588; Sept. 20; v. 290; p. 563.
- Small, Charles A. (See Shafer, I., and Small.)
- Small, Chester C., deceased, by J. M. Small, administratrix, Newton Highlands, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-arranging mechanism. No. 1,386,659; Aug. 9; v. 289; p. 200.
- Small, Frank E., Jamaica, N. Y. Magazine-crayon. No. 1,393,251; Oct. 11.
- Small, Frederick E., Needham, Mass. Rim-tool. No. 1,390,826; Sept. 13; v. 290; p. 346.
- Small, Frederick P., Ridgefield, N. J. Shipping appliance. No. 1,385,156; July 19; v. 288; p. 524.
- Small, George A., assignor to Philadelphia Bronze Bearing & Tube Company, Philadelphia, Pa. Making tubing. No. 1,387,199; Aug. 9; v. 289; p. 310.
- Small, Jennie M., administratrix. (See Small, Chester C.)
- Small, Robert E., Schenectady, N. Y. Propelling mechanism. No. 1,381,939; June 21; v. 287; p. 418.
- Smalley Manufacturing Company. (See Frick, Orlando C., assignor.)
- Smalley, Paul C., Newark, N. J. Flashlight device. No. 1,376,976; May 3; v. 286; p. 114.
- Smallwood, Alfred, London, England. Furnace. No. 1,373,152; Mar. 29; v. 284; p. 860.
- Smallwood, Alfred, Highgate, London, England. Furnace. No. 1,396,943; Nov. 15.
- Smart, Fred. (See Bliss, G. E., and Smith.)
- Smart, Joseph S., Detroit, Mich. Collapsible bench-leg. No. 1,398,471; Nov. 29.
- Smeby, Karl A., and G. W. Akin, Denver, Colo. License-number carrier. No. 1,400,630; Dec. 20.
- Smedberg, Ida, Chicago City, Minn. Insect-trap. No. 1,368,767; Feb. 15; v. 283; p. 474.
- Smedley, J. Frank. (See Hoffer, F. C., and Smedley.)
- Smedley, Jesse F. (See McDougall, T., and Smedley.)
- Smedley, Walter, Crewe, England. Device for driving shafts. No. 1,379,941; May 31; v. 286; p. 934.
- Smeeton, Edward W., Long Island City, N. Y. Lamp. No. 1,389,077; Aug. 30; v. 289; p. 853.
- Smelley, William I., Demorest, Ga. Injection-pump. No. 1,378,571; May 17; v. 286; p. 527.
- Smetana, Frank, Chicago, Ill. Flour-sifter. No. 1,391,145; Sept. 20; v. 290; p. 474.
- Smiley, George W., New Holland, Ohio. Clod-crusher and leveler. No. 1,365,287; Jan. 11; v. 282; p. 284.
- Smiley, John H., Baltimore, Md. Ventilator. No. 1,369,566; Feb. 22; v. 283; p. 667.
- Smith, F. L., & Co. (See Fasting, Johan S., assignor.)
- Smith, F. L., & Co. (See Lindhard, Pool T., assignor.)
- Smith, F. L., & Co. (See Middleboe, Kristian, assignor.)
- Smith, F. L., & Co. (See Vogel-Jørgensen, Mikael, assignor.)
- Smith, Frank B., assignor, by mesne assignments, to Hydro-Hoist Company, Milwaukee, Wis. Hydro-hoist. No. 1,374,888; Apr. 12; v. 285; p. 333.
- Smiler, Jacob M., N. Segal, J. Chaitt, and N. Rudin, Philadelphia, Pa. Phonograph-record album. No. 1,398,746; Nov. 29.
- Smiley, Elmer, Moravia, Iowa. Shoe-capping last. No. 1,396,146; Nov. 8.
- Smiley, George E. (See Beaupre, John P., assignor.)
- Smiley, John F., Dallas, Tex. Garmet-supporter. No. 1,368,461; Feb. 15; v. 283; p. 414.
- Smiley, John W., Winchester, Ky. Game of cards. No. 1,401,001; Dec. 20.
- Smiley, Wilmot C., Wampum, Pa. Conveyer. No. 1,385,281; July 19; v. 288; p. 549.
- Smiley, Wilmot C., Wampum, Pa. Antiskidding device. No. 1,385,282; July 19; v. 288; p. 549.
- Smith, Adelbert, assignor of fifteen one-hundredths to O. E. Reed, fifteen one-hundredths to E. J. Skinner, fifteen one-hundredths to F. Van Dusen, fifteen one-hundredths to R. W. Vickers, and fifteen one-hundredths to J. S. Waterman, Worcester, N. Y. Automobile-hood fastener. No. 1,369,713; Feb. 22; v. 283; p. 696.
- Smith, Adoniram J., assignor of one-half to T. P. Fridan, Seattle, Wash. Holder for spools, &c. No. 1,395,155; Oct. 25.
- Smith, Albert, Leetonia, Ohio. Scraper. No. 1,394,868; Oct. 25.
- Smith, Albert D. (See Stahr, Wilbert H., assignor.)
- Smith, Albert E., assignor to Milwaukee Auto Engine and Supply Company, Milwaukee, Wis. Timer. No. 1,371,940; Mar. 15; v. 284; p. 526.
- Smith, Albert W., and W. R. Veazey, Cleveland, Ohio. Manufacture of metallic sodium. No. 1,375,330; Apr. 19; v. 285; p. 480.
- Smith, Alden M., Los Angeles, Calif. Extension-slide handle for guns. No. 1,364,328; Jan. 4; v. 282; p. 55.
- Smith, Alexander C., assignor of one-half to T. C. Christensen, Olympia, Wash. Union. No. 1,373,106; Mar. 29; v. 284; p. 850.
- Smith, Alford A., and R. Jørgensen, Milwaukee, Wis. Adjustable seat attachment for automobiles. No. 1,379,316; May 24; v. 286; p. 743.
- Smith, Alfred E., London, England. Slip-hook. No. 1,379,786; May 31; v. 286; p. 904.
- Smith, Allen, Jr., San Diego, Calif. Oil-can. No. 1,373,584; Apr. 5; v. 285; p. 30.



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- Smith, Allen, Jr., San Diego, Calif. Oil-can. No. 1,373,536; Apr. 6; v. 285; p. 31.
- Smith, Alva M. (See Marion, George J., assignor.)
- Smith, Amos H., New York, N. Y. Rim for vehicle-wheels. No. 1,367,210; Feb. 1; v. 283; p. 65.
- Smith, Andrew B., Crockett, Calif. Concrete-form wire-clamp. No. 1,367,434; Feb. 1; v. 283; p. 110.
- Smith, Andrew B., Concepcion, Calif. Rotary engine. No. 1,387,949; Aug. 16; v. 289; p. 518.
- Smith, Anna B., Ebb, Fla. Supporter. No. 1,388,775; Aug. 23; v. 289; p. 737.
- Smith, Anton W. (See Smith, William and A. W.)
- Smith, A. O., Corporation. (See Burgess, Edward W., assignor.)
- Smith, A. O., Corporation. (See Osterberg, Carl F., assignor.)
- Smith, A. O., Corporation. (See Smith, George M., assignor.)
- Smith, A. O., Corporation. (See Smith, Lloyd R., assignor.)
- Smith, A. O., Corporation. (See Smith, Reuben S., assignor.)
- Smith, A. O., Corporation. (See Ziska, Adam, Jr., assignor.)
- Smith, Archibald J., Rochester, N. Y. Headlight mechanism for vehicles. No. 1,371,580; Mar. 15; v. 284; p. 458.
- Smith, Arthur. (See Hackett, H., Smith, and Southall.)
- Smith, Arthur A., and H. W. Paine, Eagle Grove, Iowa. Tire-chain lock and elastic take-up. No. 1,374,771; Apr. 12; v. 285; p. 310.
- Smith, Arthur B., Evanston, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,368,850; Feb. 15; v. 283; p. 490.
- Smith, Arthur D., Arkansas City, Kans. Apparatus for distilling petroleum-ols. No. 1,374,402; Apr. 12; v. 285; p. 239.
- Smith, Arthur D., assignor to F. H. Czeslik, Brooklyn, N. Y. Ice-making. No. 1,380,933; June 7; v. 287; p. 116.
- Smith, Arthur E., Chicago, Ill. Hypodermic needle. No. 1,384,355; July 12; v. 288; p. 277.
- Smith, Arthur G. (See Preston, Grace D., assignor.)
- Smith, Arthur R., Schenectady, N. Y., assignor to General Electric Company. Power plant. No. 1,390,062; Sept. 6; v. 290; p. 102.
- Smith, Arthur R., New Albany, Ind. Protractor for laying off lines, angles, and elevations in building and similar work. No. 1,401,200; Dec. 27.
- Smith, Arthur W., Gloucester, Mass. Hot-air furnace. No. 1,368,768; Feb. 15; v. 283; p. 474.
- Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,372,568; Mar. 22; v. 284; p. 703.
- Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Convertible box and stand. No. 1,382,393; June 21; v. 287; p. 504.
- Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,388,208; Aug. 23; v. 289; p. 625.
- Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,388,209; Aug. 23; v. 289; p. 626.
- Smith, August A., Smethport, Pa. Draft device for tractors. No. 1,366,842; Jan. 25; v. 282; p. 671.
- Smith, Augustus, Roselle, assignor to Bergen Point Iron Works, Bayonne, N. J. Ordnance. No. 1,376,231; Apr. 26; v. 285; p. 684.
- Smith, Basil L., Philadelphia, Pa. Standardized classified ad-copy blank. No. 1,377,855; May 10; v. 286; p. 339.
- Smith, Benjamin H., Turtle Creek, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical protective device. No. 1,365,288; Jan. 11; v. 282; p. 284.
- Smith, Benjamin H., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Wingnut. No. 1,393,459; Oct. 11.
- Smith, Bernard H., Brooklyn, and J. R. Eoff, Jr., New York, N. Y., assignors to Garrett & Company, Inc. Manufacturing flavoring extracts with higher alcohols. No. 1,384,680; July 12; v. 288; p. 345.
- Smith, Bernard H., Brooklyn, and J. R. Eoff, Jr., New York, N. Y., assignors to Garrett & Company, Inc. Manufacturing flavoring extracts with glycols. No. 1,384,681; July 12; v. 288; p. 345.
- Smith, Bernard L., Washington, D. C.; E. H. Barry, Newton, Mass., and A. H. Boettcher, Chicago, Ill., assignors to Government of the United States. Target-following bomb-sight. No. 1,389,555; Aug. 30; v. 289; p. 948.
- Smith, Bernard P., St. Louis, Mo. Adjustable drain and trap for refrigerators. No. 1,375,423; Apr. 19; v. 285; p. 498.
- Smith, Bettie W., et al. (See Smith, Edward M., assignor.)
- Smith, Blaine H., and J. C. Warner, Tonkawa, Okla. Cranking device for internal-combustion engines. No. 1,375,117; Apr. 19; v. 285; p. 440.
- Smith, Bronson H., Brooklyn, N. Y. Motor-vehicle. No. 1,370,374; Mar. 1; v. 284; p. 117.
- Smith, Burdsey W., Oroville, Calif. Combined twine-holder and advertising device. No. 1,366,327; Jan. 18; v. 282; p. 525.
- Smith, Burdsey W., Oroville, Calif. Combined twine-holder and advertising device. No. 1,366,328; Jan. 18; v. 282; p. 526.
- Smith, Burns L., Syracuse, N. Y. One-piece cast-metal wheel and making the same. No. 1,401,502; Dec. 27.
- Smith, C. E. V. (See Nicholson, William R., assignor.)
- Smith Cannery Machines Co. (See Waugh, Edward H., assignor.)
- Smith, Carlisle F., Kokomo, Ind. Carbureted-fuel separator and fuel-vaporizer. No. 1,394,948; Oct. 25.
- Smith, Cecilia, universal legatee. (See Smith, William D.)
- Smith, Charles, Providence, R. I. Automatic machine for making metallic frames for wreaths. No. 1,394,796; Oct. 25.
- Smith, Charles, assignor, by mesne assignments, of one-half to C. M. Mettler, St. Louis, Mo. Intensifier. No. 1,397,788; Nov. 22.
- Smith, Charles A. (See Rose, E. E., and Smith.)
- Smith, Charles A., Brattleboro, Vt. Boring-machine. No. 1,394,766; Oct. 25.
- Smith, Charles D., St. Louis, Mo. Shoe-heel. No. 1,388,776; Aug. 23; v. 289; p. 738.
- Smith, Charles E., The Dalles, Oreg. Feed-indicating apparatus for baling-presses. No. 1,374,245; Apr. 12; v. 285; p. 208.
- Smith, Charles F. (See McManamen, J. J., Smith, and Munro.)
- Smith, Charles F. (See Row, J., and Smith.)
- Smith, Charles F., Pittsburgh, Pa. Current-regulator. No. 1,367,631; Feb. 8; v. 283; p. 205.
- Smith, Charles F., Cle Elum, Wash. System of electrical control. No. 1,368,462; Feb. 15; v. 283; p. 414.
- Smith, Charles F., New York, N. Y. Mail-bag exchange. No. 1,393,980; Oct. 18.
- Smith, Charles F., assignor to Connecticut Aircraft Company, New Haven, Conn. Kite, captive or observation balloon. No. 1,376,121; Apr. 26; v. 285; p. 664.
- Smith, Charles F., Watertown, assignor to Howland Bag and Paper Company, Dexter, N. Y. Cutting mechanism. No. 1,383,868; July 5; v. 288; p. 126.
- Smith, Charles F., Chicago, Ill., assignor to Maxim Manufacturing Company. Disk for peeling-machines. No. 1,384,456; July 12; v. 288; p. 277.
- Smith, Charles F. and W. H., Brooklyn, N. Y. Electric condenser. No. 1,395,931; Nov. 1.
- Smith, Charles G., assignor to C. F. MacGill, Cambridge, Mass. Speedometer. No. 1,384,809; July 19; v. 288; p. 452.
- Smith, Charles G., Cambridge, Mass. Jewelry. No. 1,392,604; Oct. 4.
- Smith, Charles H., Boston, Mass. Temperature-controlled safety relief-valve for hot-water boilers. No. 1,388,383; Aug. 23; v. 289; p. 661.
- Smith, Charles H., Boston, Mass. Safety relief-valve for hot-water systems. No. 1,401,002; Dec. 20.
- Smith, Charles S., et al. (See Stanley, E. S., and Gay, assignors.)
- Smith, Charles W., Chicago, Ill. Combined water-wheel and dam. No. 1,373,456; Apr. 5; v. 285; p. 15.
- Smith, Charles W., Chambersburg, Ill. Reversible disk attachment for corn-plows. No. 1,376,232; Apr. 26; v. 285; p. 684.
- Smith, Chetwood, Worcester, assignor to Stack Heater Company, Boston, Mass. Indirect water-heating apparatus. No. 1,379,581; May 24; v. 286; p. 792.
- Smith, Christian N., Elgin, Ill. Machine for making stereotype-molds. No. 1,379,317; May 24; v. 286; p. 743.
- Smith, Christian N., Elgin, Ill. Safety-shield for circular saws. No. 1,397,606; Nov. 22.
- Smith, Christian N., Elgin, Ill. Making metallic printing-plates. No. 1,397,607; Nov. 22.
- Smith, Christian P., deceased, South Bend, Ind., A. L. Jones, administrator. Cutter-head. No. 1,400,245; Dec. 13.
- Smith, Clarence E., Naugatuck, assignor to Worcester Metal Goods Company, Waterbury, Conn. Bag-lock. No. 1,376,362; Apr. 26; v. 285; p. 709.
- Smith, Claude de F., assignor to Smith Signal Corporation, New York, N. Y. Three-way switch. No. 1,389,848; Sept. 6; v. 290; p. 58.
- Smith, Clement C., Wheeling, W. Va. Car-dumping platform. No. 1,380,745; June 7; v. 287; p. 80.
- Smith, Clifford, Philadelphia, Pa. Resilient wheel. No. 1,393,324; Oct. 11.
- Smith, Clyde L., and E. S. Webster, South Bend, Ind. Belt-vulcanizing mold. No. 1,375,473; Apr. 19; v. 285; p. 507.
- Smith & Coventry. (See Wright, Isaac H., assignor.)
- Smith, Curtis M., Washington, D. C., and H. Weigand, La Crosse, Kans. Refrigerating apparatus. No. 1,383,246; June 28; v. 287; p. 720.
- Smith, Curtis M., Washington, D. C., and H. Weigand, Baxter Springs, Kans. Absorbent material for use in ice-machines. No. 1,383,247; June 28; v. 287; p. 720.
- Smith, Daniel W., Bangor, Me. Sawing-machine. No. 1,371,122; Mar. 8; v. 284; p. 305.
- Smith, David J., London, England. Gas-producer. No. 1,377,935; May 10; v. 286; p. 355.
- Smith, David T., Lancaster, Ohio. Wagon-standard. No. 1,368,463; Feb. 15; v. 283; p. 415.
- Smith, David T., Mead, Nebr. Gun-searchlight. No. 1,396,147; Nov. 8.



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- Smith & Davis Manufacturing Co. (See Jones, Benjamin H., assignor.)
- Smith, Delbert V., Hanson, Ky. Engine-primer. No. 1,367,925; Feb. 8; v. 283; p. 262.
- Smith, Delby J., Hamilton, Ontario, Canada. Filing-cabinet. No. 1,366,427; Jan. 25; v. 282; p. 588.
- Smith, Dempster M., Washington, D. C. Motor-vehicle-controlling mechanism. No. 1,372,204; Mar. 22; v. 284; p. 634.
- Smith, E. W., Philadelphia, C. D. Galloway, and C. Ambruster, Roslyn, Pa. Storage-battery plate or electrode. No. 1,374,477; Apr. 12; v. 285; p. 255.
- Smith, Earl B. (See Tankersley, William, assignor.)
- Smith, Earl R. (See Hauserman, E. F. Mowery, Smith, and Osterman.)
- Smith, Earle R., Los Angeles, Calif. Carpet-sweeper brush cleaner and stripper. No. 1,367,722; Feb. 8; v. 283; p. 224.
- Smith, Edward M., assignor of one-third to B. W. Smith, Kansas City, and one-third to R. E. Smith, St. Louis, Mo. Time-calculating machine. No. 1,377,856; May 10; v. 286; p. 339.
- Smith, Edward W. (See Ford, Bruce, and Smith.)
- Smith, Edward W., Philadelphia, Pa. Secondary-battery plate or electrode. No. 1,370,058; Mar. 1; v. 284; p. 57.
- Smith, Edward W., Philadelphia, Pa. Secondary or storage battery. No. 1,392,232; Sept. 27; v. 290; p. 767.
- Smith, Edwin B., and A. H. Loucks, assignors to The Marion Machine Foundry and Supply Company, Marion, Ind. Lubricator. No. 1,385,283; July 19; v. 288; p. 549.
- Smith, Edwin C., *et al.*, executors. (See Wardwell, Simon W.)
- Smith, Edwin L., assignor to O. Brauch, Philadelphia, Pa. Lace-braiding machine. No. 1,397,299; Nov. 15.
- Smith, Elmer L., assignor to Package Machinery Company, Springfield, Mass. Wrapping-machine. No. 1,377,975; May 10; v. 286; p. 362.
- Smith, Elmer L., assignor to Package Machinery Company, Springfield, Mass. Wrapping-machine. No. 1,382,445; June 21; v. 287; p. 514.
- Smith, Elberon D., Brooklyn, N. Y., assignor to American Machine & Foundry Company. Cigarette-packaging machine. No. 1,397,552; Nov. 22.
- Smith, Emanuel, Wallace, Idaho. Drawknife. No. 1,376,651; May 3; v. 286; p. 51.
- Smith, Emerson H., Parsons, Kans. Train-order holder. No. 1,386,435; Aug. 2; v. 289; p. 92.
- Smith Engineering Works. (See McManamen, J. J., Smith, and Munro, assignors.)
- Smith, Ernest R., San Francisco, Calif. Calling device. No. 1,370,059; Mar. 1; v. 284; p. 57.
- Smith, Ernest T. (See Hescocck, E. N., and Smith.)
- Smith, Ervin H., New London, Wis. Price tag or card holder. No. 1,390,172; Sept. 6; v. 290; p. 123.
- Smith, Eugene G., Chicago, Ill. Axle transmission for railway-cars. No. 1,379,055; May 24; v. 286; p. 692.
- Smith, Eugene H. H., New York, N. Y. Spoon for making tea, coffee, bouillon, and other drinks. No. 1,367,568; Feb. 8; v. 283; p. 194.
- Smith, F. L., Machine Co. (See Novick, Abraham, assignor.)
- Smith, Finis, Georgetown, Ill. Cutting-chain. No. 1,376,120; Apr. 26; v. 285; p. 663.
- Smith, Florence E. and F. B., Detroit, Mich. Air-filter. No. 1,385,502; July 26; v. 288; p. 671.
- Smith, Floyd, San Diego, Calif. Water-bomb. No. 1,391,800; Sept. 27; v. 290; p. 678.
- Smith, Floyd, Aerial Equipment Company. (See Smith, Floyd, assignor.)
- Smith, Floyd, San Diego, Calif., assignor to Floyd Smith Aerial Equipment Company. Parachute. No. 1,366,843; Jan. 25; v. 282; p. 671.
- Smith, Floyd, assignor to Floyd Smith Aerial Equipment Company, Chicago, Ill. Parachute pack and harness. No. 1,367,723; Feb. 8; v. 283; p. 224.
- Smith, Floyd, Chicago, Ill., assignor to Floyd Smith Aerial Equipment Company. Landing attachment for parachutes. No. 1,378,198; May 17; v. 286; p. 457.
- Smith-Foote Co. (See Smith, Walter B., assignor.)
- Smith, Frances C., Atlanta, Ga. Word card game. No. 1,399,811; Dec. 13.
- Smith, Francis E., New York, N. Y. Film-developing device. No. 1,367,435; Feb. 1; v. 283; p. 110.
- Smith, Francis L., Denver, Colo. Tip for shoe-laces. No. 1,396,601; Nov. 8.
- Smith, Frank, Philadelphia, Pa. Inking-roller. No. 1,370,709; Mar. 8; v. 284; p. 227.
- Smith, Frank A., North Stratford, N. H. Toy. No. 1,372,569; Mar. 22; v. 284; p. 704.
- Smith, Frank A. (See Goddard, G. N., and Smith.)
- Smith, Frank H., Detroit, Mich. Automatic spark-retarder. No. 1,368,581; Feb. 15; v. 283; p. 438.
- Smith, Frank H., Canton, Ohio. Self-dumping bar-carrier. No. 1,390,650; Sept. 13; v. 290; p. 312.
- Smith, Frank L., and C. R. Hawkins, Chicago, Ill. Machine for dressing fitted bearings and the like. No. 1,384,163; July 12; v. 288; p. 237.
- Smith, Frank W. (See Spencer, Jonathan R., assignor.)
- Smith, Frank W., Brooklyn, N. Y. Tractor. No. 1,371,819; Mar. 15; v. 284; p. 503.
- Smith, Frank W., Kalamazoo, Mich. Antislip device for vehicle-wheels. No. 1,374,328; Apr. 12; v. 285; p. 224.
- Smith, Frank W., Cranford, assignor to Oxweld Acetylene Company, Newark, N. J. Oxyacetylene welding-torch. No. 1,365,796; Jan. 18; v. 282; p. 422.
- Smith, Frank W., assignor of one-fourth to J. J. Glasheen, one-fourth to R. J. Snellberger, and one-fourth to W. J. Lewis, Chicago, Ill. Smelting minerals. No. 1,385,723; July 26; v. 288; p. 716.
- Smith, Frank W., assignor of one-half to The Enfield Cycle Company Limited, Redditch, England. Oil-pump for internal-combustion engines. No. 1,394,042; Oct. 18.
- Smith, Franklin S., Philadelphia, Pa. Apparatus for treating articles by disruptive conduction. No. 1,399,161; Dec. 6.
- Smith, Franklin S., Philadelphia, Pa. Apparatus for treating products by disruptive conduction. No. 1,399,162; Dec. 6.
- Smith, Franklin P. (See Smith, James D., assignor.)
- Smith, Fred, and T. H. Brittain, Akron, Ohio. Automobile-tire-molding core. No. 1,366,290; Jan. 18; v. 282; p. 518.
- Smith, Fred, and T. H. Brittain, Akron, Ohio. Tire-casing core. No. 1,366,750; Jan. 25; v. 282; p. 653.
- Smith, Fred B. (See Smith, Florence E. and F. B.)
- Smith, Fred M., Taft, Calif. Wrench. No. 1,376,295; Apr. 26; v. 285; p. 697.
- Smith, Fred P., *et al.*, trustees. (See Allen, James M., assignor.)
- Smith, Fred R. (See Swindler, Edgar C., assignor.)
- Smith, Frederick, Darby, Pa. Prepayment gas-meter. No. 1,377,635; May 10; v. 286; p. 296.
- Smith, Frederick, London, Ontario, Canada. Running-board for motor-vehicles. No. 1,385,232; July 19; v. 288; p. 539.
- Smith, Frederick A., Brasted, England. Ignition device for internal-combustion engines. No. 1,375,424; Apr. 19; v. 285; p. 498.
- Smith, Frederick A., Brasted, England. Ignition device for internal-combustion engines. No. 1,392,364; Oct. 4.
- Smith, Frederick G., New Bedford, Mass. Railway-switch-operating device. No. 1,371,059; Mar. 8; v. 284; p. 393.
- Smith, Friend W., Bridgeport, Conn., assignor to American Chain Company. Wire chain. No. 1,379,131; May 24; v. 286; p. 708.
- Smith and Furbush Machine Company. (See Bokum, W. F., and Coulston, assignors.)
- Smith, Gary B., Chicago, Ill. Wire-twisting chuck. No. 1,367,632; Feb. 8; v. 283; p. 206.
- Smith, Gaylord C., Rogers, Mich. Trowel. No. 1,370,060; Mar. 1; v. 284; p. 58.
- Smith, George F., Germantown, Pa. Automobile-lock. No. 1,377,100; May 3; v. 286; p. 137.
- Smith, George F., Baltimore, Md. Bakers' oven. No. 1,401,823; Dec. 27.
- Smith, George F., Baltimore, Md. Rotary oven. No. 1,401,824; Dec. 27.
- Smith, George H., Newport, R. I. Baby-carriage. No. 1,375,614; Apr. 19; v. 285; p. 531.
- Smith, George K., New York, N. Y. Ship construction. No. 1,384,410; July 12; v. 288; p. 288.
- Smith, George L., Washington, D. C. Collapsible top-frame for vehicles. No. 1,390,219; Sept. 6; v. 290; p. 132.
- Smith, George L., Washington, D. C. Collapsible top-frame for vehicles. No. 1,390,220; Sept. 6; v. 290; p. 132.
- Smith, George L., assignor to United States Ordnance Company, Washington, D. C. Wire fence. No. 1,393,176; Oct. 11.
- Smith, George M., Cleveland, Ohio. Tractor. No. 1,373,981; Apr. 5; v. 285; p. 118.
- Smith, George M., Canton, Ohio, assignor to A. O. Smith Corporation, Milwaukee, Wis. Drawing-press. No. 1,373,571; Apr. 5; v. 285; p. 38.
- Smith, George Q. (See McCampbell, R. F. Scott, and Smith.)
- Smith, George R., Norfolk, Va. Reversing-gear for engines. No. 1,370,924; Mar. 8; v. 284; p. 267.
- Smith, George T., assignor of seventeen and two-third per cent. to D. D. Sheldon and one-third to C. P. Sheldon, Wichita Falls, Tex. Flour-milling machinery. No. 1,377,976; May 10; v. 286; p. 362.
- Smith, George W., Chicago, Ill. Pad-supporting stand. No. 1,379,132; May 24; v. 286; p. 708.
- Smith, George W., Garber, Okla. Sediment receiving and drawing-off device for tanks. No. 1,383,433; July 5; v. 288; p. 36.
- Smith, George W., Dallas, Tex. Four-wheel drive mechanism. No. 1,386,967; Aug. 9; v. 289; p. 271.
- Smith, George Z. (See Kinter, C. W., and Smith.)
- Smith, Gerald E., assignor to Westinghouse Electric & Manufacturing Company, Wilkesburg, Pa. System of control. No. 1,367,103; Feb. 1; v. 283; p. 44.
- Smith, Godfrey L., Newport News, Va. Curing cement. No. 1,374,403; Apr. 12; v. 285; p. 239.
- Smith, Goodwin B., Philadelphia, Pa. Waterproof fabric. No. 1,364,818; Jan. 4; v. 282; p. 149.
- Smith, Goodwin B., Philadelphia, Pa. Supporter of catamenial sacks or napkins. No. 1,388,529; Aug. 23; v. 289; p. 690.
- Smith, Graham, Savannah, Ga. Operating mechanism for the ignition-generators of internal-combustion engines. No. 1,389,706; Sept. 6; v. 290; p. 29.
- Smith, Grant E., assignor to Pouvaismith Corporation, Poughkeepsie, N. Y. Steering-wheel. No. 1,377,734; May 10; v. 286; p. 315.



## Alphabetical list of patentees—Continued.

- Smith, Gustavus A., *et al.* (See Hopkins, Harvey L., assignor.)
- Smith, Harman L. (See Hilliard, Frank H., assignor.)
- Smith, Harold J., assignor of one-half to H. F. Baker, Chicago, Ill. Music-roll-stenciling machine. No. 1,375,331; Apr. 19; v. 285; p. 481.
- Smith, Harold J., assignor of one-half to H. F. Baker, Chicago, Ill. Music-roll-perforating machine. No. 1,401,201; Dec. 27.
- Smith, Harry, Sheffield, England. Lathe-dog. No. 1,367,284; Feb. 1; v. 283; p. 80.
- Smith, Harry, Portland, Oreg. Linotype-instruction device. No. 1,390,550; Sept. 13; v. 290; p. 291.
- Smith, Harry B., Brooklyn, N. Y. Paper-box shell. No. 1,364,896; Jan. 11; v. 282; p. 208.
- Smith, Harry B., Brooklyn, N. Y. Paper-box construction. No. 1,364,897; Jan. 11; v. 282; p. 208.
- Smith, Harry B., Brooklyn, N. Y. Paper-box construction. No. 1,364,898; Jan. 11; v. 282; p. 208.
- Smith, Harry B., Brooklyn, N. Y. Paper-box shell. No. 1,365,351; Jan. 11; v. 282; p. 295.
- Smith, Harry B., New York, N. Y. Covered paper box. No. 1,364,899; Jan. 11; v. 282; p. 208.
- Smith, Harry B., Albany, N. Y., assignor to Surpass Chemical Co. Inc. Dyeing. No. 1,368,298; Feb. 15; v. 283; p. 382.
- Smith, Harry B., Brooklyn, N. Y. Making covered paper boxes. No. 1,386,373; Aug. 2; v. 289; p. 81.
- Smith, Harry B., Brooklyn, N. Y. Making boxes. No. 1,386,374; Aug. 2; v. 289; p. 81.
- Smith, Harry B., Brooklyn, N. Y. Paper-box construction. No. 1,397,608; Nov. 22.
- Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Stoker. No. 1,373,265; Mar. 29; v. 284; p. 883.
- Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Purification of gas. No. 1,379,056; May 24; v. 286; p. 693.
- Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Valve. No. 1,381,511; June 14; v. 287; p. 276.
- Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Speed-governing mechanism for prime-movers. No. 1,381,512; June 14; v. 287; p. 277.
- Smith, Harry F., assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Speed regulation. No. 1,381,513; June 14; v. 287; p. 277.
- Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Tank. No. 1,387,080; Aug. 9; v. 289; p. 295.
- Smith, Harry F., assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Gas generation. No. 1,394,043; Oct. 18.
- Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Method of and apparatus for distributing material. No. 1,397,553; Nov. 22.
- Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Steam regulation. No. 1,397,554; Nov. 22.
- Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Moisture regulation. No. 1,397,555; Nov. 22.
- Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Moisture control. No. 1,397,556; Nov. 22.
- Smith, Harry F., assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Spraying mechanism. No. 1,397,557; Nov. 22.
- Smith, Harry J., Bend, Oreg. Wrench. No. 1,388,005; Aug. 16; v. 289; p. 529.
- Smith, Harry J., Lakewood, Ohio. Self-oiling bearing. No. 1,397,115; Nov. 15.
- Smith, Harvey G., Los Angeles, Calif. Windshield. No. 1,373,840; Apr. 5; v. 285; p. 90.
- Smith-Hecht Company. (See Smith, Herman E., assignor.)
- Smith, Henry, Hamtramck, Mich. Polishing-brush. No. 1,374,772; Apr. 12; v. 285; p. 310.
- Smith, Henry A. W., Chatham, Va. Shears. No. 1,390,730; Sept. 13; v. 290; p. 327.
- Smith, Henry C., St. Marys, Ohio. Stop mechanism. No. 1,372,913; Mar. 29; v. 284; p. 813.
- Smith, Henry C., St. Marys, Ohio. Resilient clutch. No. 1,387,017; Aug. 9; v. 289; p. 281.
- Smith, Henry C., St. Marys, Ohio. Tool-driving machine. No. 1,398,978; Dec. 6.
- Smith, Henry J., Minneapolis, Minn. Churn and butter-worker. No. 1,390,466; Sept. 13; v. 290; p. 273.
- Smith, Henry L., Paterson, N. J. Commutator device for automobile ignition systems. No. 1,382,864; June 28; v. 287; p. 647.
- Smith, Henry L., Paterson, N. J. Device for heating the intake-manifolds of internal-combustion engines. No. 1,386,904; Aug. 9; v. 289; p. 259.
- Smith, Henry M., Ottumwa, Iowa. Gage and level. No. 1,373,982; Apr. 5; v. 285; p. 118.
- Smith, Henry M., Lyndonville, Vt. Dimming apparatus for headlights. No. 1,386,968; Aug. 9; v. 289; p. 271.
- Smith, Henry S., Dixon, Ill., assignor, by mesne assignments, to J. I. Case Threshing Machine Company, Racine, Wis. Plow-lift. No. 1,394,767; Oct. 25.
- Smith, Herbert C., Forest Grove, Oreg. Lubricator. No. 1,367,211; Feb. 1; v. 283; p. 65.
- Smith, Herbert E., assignor to Spokane Mail Equipment Company, Spokane, Wash. Railway mail delivery. No. 1,364,591; Jan. 4; v. 282; p. 105.
- Smith, Herbert E., assignor to Spokane Mail Equipment Company, Spokane, Wash. Railway-mail exchange. No. 1,370,710; Mar. 8; v. 284; p. 227.
- Smith, Herbert E., Manchester, N. H. Vehicle-spring. No. 1,392,974; Oct. 11.
- Smith, Herbert M., assignor to Stanley Insulating Company, Great Barrington, Mass. Apparatus for filling receptacles or the like. No. 1,397,061; Nov. 15.
- Smith, Herbert T., Toronto, Ontario, Canada. System of transportation control. No. 1,394,368; Oct. 18.
- Smith, Herman A., Yonkers, N. Y., assignor of one-half to E. J. Marston, Greenwich, Conn. Method of and apparatus for producing pictures by projection. No. 1,394,797; Oct. 25.
- Smith, Herman E., assignor to Smith-Hecht Company, Indianapolis, Ind. Electrical display-sign. No. 1,389,707; Sept. 6; v. 290; p. 29.
- Smith, Hewlet T., Oxnard, Calif. Tool-wrench. No. 1,399,089; Dec. 6.
- Smith, Hiram A., Kalamazoo, Mich. Truck. No. 1,367,672; Feb. 8; v. 283; p. 214.
- Smith, Hiram A., Kalamazoo, Mich. Transfer-truck. No. 1,367,673; Feb. 8; v. 283; p. 214.
- Smith, Hugh B., *et al.* (See Kearns, William S., assignor.)
- Smith, Homer P., assignor to Scolding Locks Hairpin Co., Appleton, Wis. Packing-machine for hairpins. No. 1,378,626; May 17; v. 286; p. 538.
- Smith, Howard A., Montgomery, Iowa. Hayrack-fastener. No. 1,400,834; Dec. 20.
- Smith, Howard W., Ellwood City, Pa. Flattening pipe. No. 1,384,103; July 12; v. 288; p. 225.
- Smith, Hubert E. (See Nelson, G. H., and Smith.)
- Smith, Hubert F. (See Waterman, C. A., and Smith.)
- Smith, Hunter, Jr., assignor of one-half to J. T. Lawler, Seattle, Wash. Wrench. No. 1,397,462; Nov. 15.
- Smith, Irving B., Ambler, assignor to Leeds & Northrup Company, Philadelphia, Pa. Electrical measuring apparatus. No. 1,378,983; May 24; v. 286; p. 679.
- Smith, Ivan E. (See James, G. F., and Smith.)
- Smith, Irving R., *et al.* (See La Gier, August F., assignor.)
- Smith, J. A., *et al.*, trustees. (See Kerr, Augustus H., assignor.)
- Smith, James, Pittsburg, Calif. Fruit-press. No. 1,366,291; Jan. 18; v. 282; p. 578.
- Smith, James C., Tulsa, Okla. Coupling-nipple. No. 1,385,157; July 19; v. 288; p. 525.
- Smith, James C., Paterson, N. J., assignor to McNab & Harlin Mfg. Co., New York, N. Y. Gate-valve. No. 1,388,777; Aug. 23; v. 289; p. 728.
- Smith, James C., Havana, Ark. Corn and cotton chopper. No. 1,890,173; Sept. 6; v. 290; p. 124.
- Smith, James D., assignor of one-half to F. P. Smith, Chicago, Ill. Wire-bending apparatus. No. 1,392,713; Oct. 4.
- Smith, James D., assignor of one-half to F. P. Smith, Chicago, Ill. Wire-inserting mechanism for wire-mesh fabricated material. No. 1,392,714; Oct. 4.
- Smith, James E., and C. W. Burger, Washington, D. C. Instrument for use in learning telegraphy. No. 1,394,768; Oct. 25.
- Smith, James H., Saline, La. Combined cotton chopper and cultivator. No. 1,389,461; Aug. 30; v. 289; p. 929.
- Smith, James H., Jr., Rutherford, and C. A. Wilson, Passaic, N. J. Composition of matter. No. 1,398,979; Dec. 6.
- Smith, Jay H. (See West, W. P., and Smith.)
- Smith, Jerry R., Chicago, Ill. Shoe-fastener. No. 1,371,941; Mar. 15; v. 284; p. 526.
- Smith, Jesse A., Des Moines, Iowa. Egg-turnover pan. No. 1,398,655; Nov. 29.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,364,819; Jan. 4; v. 282; p. 149.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,368,299; Feb. 15; v. 283; p. 382.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,377,446; May 10; v. 286; p. 261.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,378,627; May 17; v. 286; p. 539.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine and supports therefor. No. 1,380,746; June 7; v. 287; p. 80.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Ledger-sheet. No. 1,386,375; Aug. 2; v. 289; p. 81.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,386,969; Aug. 9; v. 289; p. 272.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,393,177; Oct. 11.



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- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Multiple web for typewriters. No. 1,400,572; Dec. 20.
- Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Multiple web for typewriters. No. 1,400,631; Dec. 20.
- Smith, Jesse D., Holton, Ind. Pulverizer. No. 1,375,425; Apr. 19; v. 285; p. 498.
- Smith, Jesse R., Benton, Ill. Railway-tie renewer. No. 1,381,759; June 14; v. 287; p. 325.
- Smith, Jesse R., assignor of twenty-five per cent. to C. A. Linder, twenty-five per cent. to F. L. Owens, Greenfield, and twenty-five per cent. to D. Corsa, White Hall, Ill. Garment-supporter. No. 1,387,912; Aug. 16; v. 289; p. 511.
- Smith, Jerome W., Walla Walla, Wash. Electric lantern. No. 1,400,775; Dec. 20.
- Smith, John, St. Louis, Mo. Plastic composition for bricks. No. 1,385,757; July 26; v. 288; p. 723.
- Smith, John A., Washington, D. C. Electric signal for automobiles and other vehicles. No. 1,375,540; Apr. 19; v. 285; p. 520.
- Smith, John B., Stamford Hill, London, England. Strainer for teapots. No. 1,384,926; July 19; v. 288; p. 475.
- Smith, John C., Jersey Shore, Pa. Wrench. No. 1,386,905; Aug. 9; v. 289; p. 260.
- Smith, John E., Moorestown, N. J. Heating appliance for internal-combustion motors. No. 1,366,965; Feb. 1; v. 283; p. 17.
- Smith, John E. and W. H. Chaska, Minn. Green-corn trimmer. No. 1,367,508; Feb. 1; v. 283; p. 124.
- Smith, John G., Falls Mills, Va. Pipe-wrench. No. 1,384,104; July 12; v. 288; p. 225.
- Smith, John H., assignor to the Eclipse Interchangeable Counterscore Company, Detroit, Mich. Adjustable tool-holder. No. 1,378,290; May 17; v. 286; p. 474.
- Smith, John L., Hamilton, Ontario, Canada. Device for removing flaws from steel billets while hot. No. 1,380,430; June 7; v. 287; p. 20.
- Smith, John O., Moberly, Mo. Fountain-stopper for ink-bottles and the like. No. 1,366,428; Jan. 25; v. 282; p. 589.
- Smith, John O., Cleveland, Ohio. Vehicle-tire. No. 1,390,487; Sept. 13; v. 290; p. 273.
- Smith, John B. C., Victoria, British Columbia, Canada. Speed-indicator. No. 1,377,636; May 10; v. 286; p. 296.
- Smith, John W., Great Falls, Mont. Transfer-table and switching system. No. 1,366,292; Jan. 18; v. 282; p. 518.
- Smith, John W., Chicago, Ill. Artificial limb. No. 1,368,851; Feb. 15; v. 283; p. 490.
- Smith, John W., Philadelphia, Pa. Air-pump. No. 1,378,910; May 24; v. 286; p. 665.
- Smith, John W., Philadelphia, Pa. Flying-machine. No. 1,390,974; Nov. 15.
- Smith, Joseph A., De Witt, Ark. Process and apparatus for polishing grain. No. 1,389,277; Aug. 30; v. 289; p. 892.
- Smith, Joseph A., Edom, Tex. Aeroplane. No. 1,397,062; Nov. 15.
- Smith, Joseph C., West Brighton, N. Y. Bath-brush. No. 1,372,783; Mar. 29; v. 284; p. 786.
- Smith, Joseph D., Marshalltown, Iowa. Door-operating means. No. 1,401,202; Dec. 27.
- Smith, Joseph H., Denver, Colo. Garment holder or hanger. No. 1,393,843; Oct. 18.
- Smith, Joseph J. (See Bevelle, J. C., and Smith.)
- Smith, Joseph T., London, England. Color photography. No. 1,390,252; Sept. 6; v. 290; p. 138.
- Smith, Josiah, Leeds, England. Machine for molding soap and the like substances. No. 1,384,571; July 12; v. 288; p. 321.
- Smith, Josiah H., assignor to W. H. Tigerman, Philadelphia, Pa. Suspension-railway. No. 1,367,788; Feb. 8; v. 283; p. 236.
- Smith, Karl D., assignor to Union Steam Pump Company, Battle Creek, Mich. Vacuum-pump. No. 1,384,927; July 19; v. 288; p. 476.
- Smith, Karl D., assignor to Union Steam Pump Company, Battle Creek, Mich. Pump. No. 1,384,928; July 19; v. 288; p. 476.
- Smith, Karl D., assignor to Union Steam Pump Company, Battle Creek, Mich. High-pressure pump. No. 1,387,623; Aug. 16; v. 289; p. 453.
- Smith, Kirk D., Wendell, N. H. Educational appliance. No. 1,391,986; Sept. 27; v. 290; p. 718.
- Smith, Launcelot E., *et al.* (See Thompson, Herbert A., assignor.)
- Smith, Launcelot E., South Shields, C. Zulver, London, and H. A. Thompson, North Shields, England. Liquid-fuel fittings for furnace-fronts. No. 1,393,646; Oct. 11.
- Smith, Lawrence A., Port Gibson, Miss. Humidifier. No. 1,368,365; Feb. 15; v. 283; p. 395.
- Smith, Lee H., Sedan, Kans. Flexible coupling for magnetos. No. 1,383,160; June 28; v. 287; p. 704.
- Smith, Lewis M., Pocatello, Idaho. Device for attaching signs to glass. No. 1,391,861; Sept. 27; v. 290; p. 692.
- Smith, Lloyd B., assignor to A. O. Smith Corporation, Milwaukee, Wis. Apparatus for hardening flat concrete work. No. 1,388,128; Aug. 16; v. 289; p. 553.
- Smith Locomotive Adjustable Hub Company. (See Dake, Charles W., assignor.)
- Smith, Lulu M. (See Cookson, William S., assignor.)
- Smith, Luther D., Toledo, Ohio. Electric heating element. No. 1,393,325; Oct. 11.
- Smith, Lymus. (See Washington, George, assignor.)
- Smith, Lynn B., assignor to The Disc-O-Tag Company, Indianapolis, Ind. Price-card holder. No. 1,372,205; Mar. 22; v. 284; p. 634.
- Smith, Malcom O., Indianapolis, Ind., assignor to Permalife Storage Battery Co., Poughkeepsie, N. Y. Storage battery. No. 1,376,171; Apr. 26; v. 285; p. 673.
- Smith, Manning J., Philadelphia, Pa. Power-transmission belt. No. 1,373,457; Apr. 5; v. 285; p. 15.
- Smith, Marion A., Salt Lake City, Utah. Beet-topping apparatus. No. 1,389,708; Sept. 6; v. 290; p. 29.
- Smith, Marvin S. (See Campbell, W. M., and Smith.)
- Smith, Marvin W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Field-control system for synchronous booster rotary converters. No. 1,392,084; Sept. 27; v. 290; p. 737.
- Smith, Maurice A., assignor to McKee Glass Company, Jeannette, Pa. Glass. No. 1,365,797; Jan. 18; v. 282; p. 422.
- Smith, Maurice M., New York, N. Y. Game apparatus. No. 1,377,936; May 10; v. 286; p. 355.
- Smith, Maurice W., Lyndhurst, Hoddesdon, England. Quick-release bench-vice. No. 1,391,913; Sept. 27; v. 290; p. 702.
- Smith, Milo H. (See Vierling, F. J., Bartholomew, and Smith.)
- Smith, Michael H., London, England. Lacing-fastening. No. 1,399,896; Dec. 13.
- Smith, Morman J., and B. F. Browder, Weatherford, Tex. Peanut-digger. No. 1,389,015; Aug. 30; v. 289; p. 841.
- Smith, Norman R., San Francisco, Calif. Airplane. No. 1,400,916; Dec. 20.
- Smith, Mortimer L., Portland, Ore. Rotary brush. No. 1,369,567; Feb. 22; v. 283; p. 668.
- Smith, Nathan, New York, N. Y. Marking materials. No. 1,374,329; Apr. 12; v. 285; p. 225.
- Smith, Nelson K., Dallas, Tex. Wrench. No. 1,397,884; Nov. 22.
- Smith, Northey V., assignor to G. A. Goulston, Boston, Mass. Disinfecting device for telephone and other uses. No. 1,386,975; Aug. 9; v. 289; p. 273.
- Smith, O. A., Corporation. (See Smith, R. S., Andren, and Miller, assignors.)
- Smith, O. Jay. (See Madsen, Peter, assignor.)
- Smith, Oliver W., Los Angeles, Calif. Valve for steam and water systems. No. 1,379,840; May 31; v. 286; p. 915.
- Smith, Oliver W. *et al.* (See Blundell, William C., assignor.)
- Smith, Orland V., Milford, Conn., assignor, by mesne assignments, of one-half to E. L. Roberts, Amarillo, Tex. Auxiliary banking means. No. 1,395,156; Oct. 25.
- Smith, Oscar A., assignor to The National Acme Company, Cleveland, Ohio. Rotary milling and slotting machine. No. 1,374,062; Apr. 19; v. 285; p. 409.
- Smith, Oscar A., assignor to The National Acme Company, Cleveland, Ohio. Hub-nut and making the same. No. 1,381,437; June 14; v. 287; p. 263.
- Smith, Oscar P., Worcester, Mass. Light-shield. No. 1,387,200; Aug. 9; v. 289; p. 316.
- Smith, Owen E., Chicago, Ill. Dog-racing amusement. No. 1,379,224; May 24; v. 286; p. 725.
- Smith, Paul E., and J. A. Luke, Salt Lake City, Utah. Dry-cleaning system. No. 1,385,724; July 26; v. 288; p. 716.
- Smith, Peter, Heater Company, The. (See Gardiner, William H., assignor.)
- Smith, Primus W., Junction City, Kans., J. J. Bookhout, and E. W. Monce, Dallas, Tex. Drill-bit. No. 1,364,956; Jan. 11; v. 282; p. 220.
- Smith, Primus W., Junction City, Kans., and J. J. Bookhout, Dallas, Tex. Well-drilling device. No. 1,370,492; Mar. 1; v. 284; p. 140.
- Smith, Primus W., Junction City, Kans. Shade-roller. No. 1,376,977; May 3; v. 286; p. 114.
- Smith, Raphael L., St. Louis, Mo. Rivet or fastener. No. 1,385,799; July 26; v. 288; p. 731.
- Smith, Ray S., Oakland, Calif. Accompaniment control for player-pianos. No. 1,382,749; June 28; v. 287; p. 625.
- Smith, Raymond, Hazardville, Conn. Electrical testing apparatus. No. 1,372,570; Mar. 22; v. 284; p. 704.
- Smith, Raymond A., Philadelphia, Pa. Safety device for delivery of milk and other articles. No. 1,391,801; Sept. 27; v. 290; p. 679.
- Smith, Raymond D., East Milton, assignor to Tremont Products Company, Boston, Mass. Control mechanism for tension-operated devices. (Reissue.) No. 15,044; Feb. 15; v. 283; p. 518.
- Smith, Raymond D., Milton, assignor to Shawmut Machine Works, Inc., Boston, Mass. Thermostatically-controlled valve. No. 1,383,573; July 5; v. 288; p. 65.
- Smith, Raymond D., Milton, assignor to Shawmut Machine Works, Inc., Boston, Mass. Delayed cut-off for incandescent gas-lamps. No. 1,383,574; July 5; v. 288; p. 65.
- Smith, Raymond D., Milton, assignor to Shawmut Machine Works, Inc., Boston, Mass. Delayed cut-off for incandescent gas-lamps. No. 1,383,575; July 5; v. 288; p. 65.



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- Smith, Raymond D., Arlington, assignor to Shawmut Machine Works, Inc., Boston, Mass. Selectively-operable timing mechanism. No. 1,385,098; July 19; v. 288; p. 512.
- Smith, Reuben S., Milwaukee, Wis. Drawing-press. No. 1,368,366; Feb. 15; v. 283; p. 395.
- Smith, Reuben S., assignor to Briggs & Stratton Company, Milwaukee, Wis. Motor-wheel for bicycles. No. 1,373,918; Apr. 5; v. 285; p. 105.
- Smith, Reuben S., B. T. Andren and H. Miller, Milwaukee, Wis.; said Andren and said Miller assignors to A. O. Smith Corporation, Milwaukee, Wis. Drawing-press. No. 1,373,572; Apr. 5; v. 285; p. 38.
- Smith, Reuben S., assignor to A. O. Smith Corporation, Milwaukee, Wis. Method of and apparatus for forming and assembling metal elements. No. 1,397,020; Nov. 15.
- Smith, Rexford M., Washington, D. C., assignor, by mesne assignments, to Connecticut Aircraft Company, New Haven, Conn. Flying-machine. No. 1,398,922; Nov. 29.
- Smith, Richard I., assignor of two-fifths to A. Martin, Omaha, Nebr. Medicine-administering instrument for hogs. No. 1,378,199; May 17; v. 286; p. 457.
- Smith, Richard H., Keighley, England. Shuttle-actuating mechanism for looms. No. 1,396,602; Nov. 8.
- Smith, Robert A., assignor to Smith and Serrell, Mahwah, N. J. Spiral-spring coupling. No. 1,365,957; Jan. 18; v. 282; p. 454.
- Smith, Robert A., assignor to Smith and Serrell, Mahwah, N. J. Flexible coupling. No. 1,368,662; Feb. 15; v. 283; p. 453.
- Smith, Robert A., assignor to Smith and Serrell, Mahwah, N. J. Making flexible coupling members, &c. No. 1,368,663; Feb. 15; v. 283; p. 453.
- Smith, Robert E., Stoughton, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for setting fasteners. No. 1,371,329; Mar. 15; v. 284; p. 408.
- Smith, Robert E., *et al.* (See Smith, Edward M., assignor.)
- Smith, Robert G. (See Trautman, L. M., and Smith.)
- Smith, Robert L., Toronto, Ontario, Canada. Receptacle-cover support. No. 1,368,367; Feb. 15; v. 283; p. 395.
- Smith, Robert W., Redditch, England. Antivibration handle-bar for motorcycles, cycles, and the like. No. 1,398,447; Nov. 29.
- Smith, Robert W., Redditch, assignor of one-half to The Enfield Cycle Company, Limited, Redditch, Worcester, England. Combined mudguard and carrier member for use on motor and other cycles. No. 1,398,448; Nov. 29.
- Smith, Rowland H., Brantford, Ontario, Canada. Organ-blower. No. 1,397,988; Nov. 22.
- Smith, Roy A., Spencer, Idaho. Grab. No. 1,364,820; Jan. 4; v. 282; p. 149.
- Smith, Roy D., and A. Christopherson, Mohler, Idaho. Four-wheel drive. No. 1,392,365; Oct. 4.
- Smith, Rufus W., Chester, S. C. Spool-steward. No. 1,395,157; Oct. 25.
- Smith, Russell B., New York, N. Y. Removable chair for reinforced concrete construction. No. 1,372,266; Mar. 29; v. 284; p. 883.
- Smith, Russell B., New York, N. Y. Building reinforced-concrete ships. No. 1,373,267; Mar. 29; v. 284; p. 883.
- Smith, S., & Sons (Motors Accessories) Limited. (See Dorer, Primus O., assignor.)
- Smith, Sam R., Los Angeles, Calif. Swimming-garment. No. 1,365,067; Jan. 11; v. 282; p. 240.
- Smith, Sam R., Los Angeles, Calif. Collapsible bed structure. No. 1,374,531; Apr. 12; v. 285; p. 264.
- Smith, Sam R., Los Angeles, Calif. Collapsible bed structure. No. 1,395,158; Oct. 25.
- Smith, Samuel C., assignor of one-half of L. L. Hoffmann, Chicago, Ill. Water-heater. No. 1,398,747; Nov. 29.
- Smith Scale Company, The. (See Smith, Walter S., assignor.)
- Smith and Serrell. (See Smith, Robert A., assignor.)
- Smith, Shelby J., Washington, Ill. Earth-boring machine. No. 1,369,941; Mar. 1; v. 284; p. 36.
- Smith, Sidney P. (See Brown, A. C., and Smith.)
- Smith Signal Corporation. (See Smith, Claude de F., assignor.)
- Smith Signal Corporation. (See Ware, Orington A., assignor.)
- Smith, Stephen D., Hercules, Calif. Therapeutic electric vibrator. No. 1,373,208; Mar. 29; v. 284; p. 872.
- Smith, Sydney, Detroit, Mich., assignor to The Studebaker Corporation. Treating wood. No. 1,380,429; June 7; v. 287; p. 20.
- Smith, T. I. Company. (See Curtis, Theron S., assignor.)
- Smith, Taylor J., Union City, Ga. Cotton-picker. No. 1,373,983; Apr. 5; v. 285; p. 118.
- Smith, Temple C., East Orange, N. J., assignor to American Telephone and Telegraph Company. Pole-derrick. No. 1,372,838; Mar. 29; v. 284; p. 797.
- Smith, Temple C., East Orange, N. J., assignor to American Telephone and Telegraph Company. Deflection dynamometer. No. 1,400,776; Dec. 20.
- Smith, Theodore C., Philadelphia, Pa. Luminous pile. No. 1,394,449; Oct. 18.
- Smith, Thomas A., Ashley, Pa. Window-lock. No. 1,374,773; Apr. 12; v. 285; p. 310.
- Smith, Thomas M., Baltimore, Md. Automobile signaling device. No. 1,370,674; Mar. 8; v. 284; p. 220.
- Smith, Walter, Chicago, Ill. Closure-lifter. No. 1,386,208; Aug. 2; v. 289; p. 49.
- Smith, Walter B., assignor to Smith-Foote Co., Sioux City, Iowa. Motor-cranking device. No. 1,375,940; Apr. 26; v. 285; p. 629.
- Smith, Walter C., Watertown, N. Y. Vehicle attachment. No. 1,383,668; July 5; v. 288; p. 85.
- Smith, Walter E. (See Litzenberg, William R., assignor.)
- Smith, Walter H., Pittsburgh, Pa., assignor to Miller Saw-Trimmer Company. Cord-retaining means. No. 1,386,537; Aug. 2; v. 289; p. 112.
- Smith, Walter O., assignor to Ree Nu-It Electric Manufacturing Company, New Bedford, Mass. Renewable fuse-plug. No. 1,365,798; Jan. 18; v. 282; p. 422.
- Smith, Walter S., assignor of one-half to Lewis R. Drake, Columbus, Ohio. Scale. No. 1,365,799; Jan. 18; v. 282; p. 422.
- Smith, Walter S., assignor to The Smith Scale Company, Columbus, Ohio. Weighing-scale. No. 1,396,668; Nov. 8.
- Smith, Warren E., Havana, Ohio. Cutting mechanism for mowing-machines. No. 1,364,414; Jan. 4; v. 282; p. 71.
- Smith, Watson R., Jackson, Mich. Spring structure. No. 1,399,028; Dec. 6.
- Smith, Watson R., Jackson, Mich. Spring structure. No. 1,399,029; Dec. 6.
- Smith, Watson R., Jackson, Mich. Spring structure. No. 1,399,030; Dec. 6.
- Smith & Watson Iron Works. (See Sullivan, A. C., and Gill, assignors.)
- Smith, Willard A., Melrose, Mass., assignor to United Shoe Machinery Corporation, Paterson N. J. Button-sewing machine. No. 1,399,527; Dec. 6.
- Smith, W. W. (See Anderson, Raymond T., assignor.)
- Smith & Wesson. (See Pomeroy, Edward S., assignor.)
- Smith, Wilburn B., and D. N. Swartzell, Birmingham, Ala. Locking device for motors. No. 1,388,778; Aug. 23; v. 289; p. 738.
- Smith, Willard A., Melrose, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Thread-handling machine. No. 1,387,624; Aug. 16; v. 289; p. 453.
- Smith, Willard E. (See Hagen, Bernhard E., assignor.)
- Smith, William A., and A. W. Los Angeles, Calif. Lamp-holder. No. 1,370,231; Mar. 1; v. 284; p. 90.
- Smith, William. (See Walker, W. B., Morrison, and Smith.)
- Smith, William A. (See Bowman, L. M., and Smith.)
- Smith, William A., *et al.* (See Bowman, Levi M., assignor.)
- Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Throttle-valve for drills. No. 1,370,061; Mar. 1; v. 284; p. 58.
- Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Automatic valve for independent-rotation drills. No. 1,372,914; Mar. 29; v. 284; p. 814.
- Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Automatic-valve. No. 1,372,915; Mar. 29; v. 284; p. 814.
- Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pinning-out machine for drill-steels. No. 1,379,225; May 24; v. 286; p. 726.
- Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Blowing device for percussive tools. No. 1,384,641; July 12; v. 288; p. 337.
- Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-sharpener. No. 1,393,403; Oct. 11.
- Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Shank and bit punch. No. 1,395,747; Nov. 1.
- Smith, William A., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-steel retainer. No. 1,383,434; July 5; v. 288; p. 37.
- Smith, William A., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock-drill. No. 1,384,216; July 12; v. 288; p. 248.
- Smith, William A., Phillipsburg, N. J., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Motor. No. 1,401,003; Dec. 20.
- Smith, William B., Norwood, Ohio. Metal-burnishing machine. No. 1,401,563; Dec. 27.
- Smith, William B., Norwood, assignor to The Corcoran-Victor Company, Cincinnati, Ohio. Dies for drawing and upsetting metal forms. No. 1,393,916; Oct. 18.
- Smith, William B., Niagara Falls, N. Y., assignor to American Chain Company, Inc. Chain-tightening lever. No. 1,395,605; Nov. 1.
- Smith, William B., Niagara Falls, Ontario, Canada, assignor to American Chain Company, Inc. Bridgeport, Conn. Unit non-skid device. No. 1,401,503; Dec. 27.
- Smith, William C., Chicago, Ill. Autographic register. No. 1,381,140; June 14; v. 287; p. 209.
- Smith, William C., assignor to The L. D. Caulk Co., Milford, Del. Dental pliers. No. 1,386,436; Aug. 2; v. 289; p. 93.
- Smith, William C., Robinson, Ill. Rim. No. 1,398,807; Nov. 29.



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- Smith, William D., deceased; C. Smith, universal legatee, Montreal, Quebec, Canada. Smoke-consumer. No. 1,388,384; Aug. 23; v. 289; p. 662.
- Smith, William E. (See James, C. E., Sandilands, and Smith.)
- Smith, William E., Milltown, assignor to The Interwoven Mills, Inc., New Brunswick, N. J. Circular-knitting machine. No. 1,368,664; Feb. 15; v. 283; p. 454.
- Smith, William E., Milltown, assignor to The Interwoven Mills, Inc., New Brunswick, N. J. Seamless tubular knit fabric and knitting the same. No. 1,390,827; Sept. 13; v. 290; p. 346.
- Smith, William F., Jr., Magee, Miss. Porch-curtain. No. 1,371,524; Mar. 15; v. 284; p. 447.
- Smith, William H. (See Smith, Charles F. and W. H.)
- Smith, William H., New Haven, Conn. Garter. No. 1,379,787; May 31; v. 286; p. 905.
- Smith, William H., Portland, Oreg. Cotton-chopper. No. 1,383,772; July 5; v. 288; p. 107.
- Smith, William H., Milwaukee, Wis. Abrading-machine. No. 1,390,828; Sept. 13; v. 290; p. 346.
- Smith, William H., Bridgeport, Conn. Spring-wheel. No. 1,392,859; Oct. 4.
- Smith, William J., Eolia, Mo. Ball-bearing rim-lug. No. 1,383,435; July 5; v. 288; p. 37.
- Smith, William J., Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Reel. No. 1,384,572; July 12; v. 288; p. 322.
- Smith, William L. (See Miller, H. L. and Smith.)
- Smith, William M., Bloomsbury, England. Sound reproducing and recording apparatus. No. 1,383,271; June 28; v. 287; p. 724.
- Smith, William N. (See Webb, Arthur B., assignor.)
- Smith, William R. (See Mellon, G. H. and Smith.)
- Smith, William S., Cambridge, Mass. Safety device for electrically-operated systems. No. 1,393,404; Oct. 11.
- Smith, William T., assignor to W. R. Thomas, Philadelphia, Pa. Valve and locking device therefor. No. 1,383,869; July 5; v. 288; p. 127.
- Smith, William W., assignor of one-half to W. C. Kidder, Buffalo, N. Y. Propeller. No. 1,380,431; June 7; v. 287; p. 20.
- Smith, Wilson F., East Liverpool, Ohio. Sound-amplifier. No. 1,370,375; Mar. 1; v. 284; p. 117.
- Smith, Wilson G., assignor to W. H. Fullington and A. H. Sampson, Cleveland, Ohio. Spreader and swivel for rope-making. No. 1,366,429; Jan. 25; v. 282; p. 589.
- Smithdicken, Isham. (See Knoblauch, Charles F., assignor.)
- Smithe, F. L., Machine Company. (See Novick, Abraham, assignor.)
- Smithe, Ferdinand L. (See Novick, A., and Fish, assignors.)
- Smithy, Marvin, Lawrenceville, Va. Meter. (Reissue.) No. 15,036; Feb. 1; v. 283; p. 128.
- Smithfield, Emil A., assignor to Faultless Caster Company, Evansville, Ind. Caster-bracket socket. No. 1,383,773; July 5; v. 288; p. 107.
- Smithfield, Emil A., assignor to Faultless Caster Company, Evansville, Ind. Caster construction. No. 1,383,774; July 5; v. 288; p. 107.
- Smithfield, V. R. (See Combs, James M., assignor.)
- Smokstad, F. O., et al. (See Packwood, Charles W., assignor.)
- Smolienski, John. (See Skarzynski, John, assignor.)
- Smoot, Charles H., South Orange, N. J., assignor to Rateau Battu Smoot Engineering Corporation, New York, N. Y. Pressure or volume recording meter. No. 1,369,568; Feb. 22; v. 283; p. 668.
- Smoot, Charles H., South Orange, N. J., assignor to Rateau Battu Smoot Engineering Corporation, New York, N. Y. Elastic-fluid-pressure multiplier. No. 1,381,139; June 14; v. 287; p. 209.
- Smoot, Charles H., South Orange, N. J., assignor to Rateau Battu Smoot Engineering Corporation, New York, N. Y. Regulating blowing-engines. No. 1,390,829; Sept. 13; v. 290; p. 347.
- Smouse, Will J., Cedar Rapids, Iowa. Foldable box. No. 1,373,365; Mar. 29; v. 284; p. 902.
- Smurr, Harry M. B., Armona, Calif. Toy aeroplane. No. 1,397,989; Nov. 22.
- Smurr, Samuel P., Chicago, Ill. Cut-out for exhaust pipes. No. 1,400,325; Dec. 13.
- Smurr, Samuel P., Chicago, Ill., assignor, by mesne assignments, to V. V. Waldo. Machine for coiling wire. No. 1,382,251; June 21; v. 287; p. 476.
- Smyth, Charles F., assignor to Connecticut Aircraft Company, New Haven, Conn. Inflatable fabric boat and bed or cushion. No. 1,392,533; Oct. 4.
- Smyth, George L. (See Parker, W. H. and Smyth.)
- Smyth, Henry M., New York, N. Y. Valve-gear. No. 1,370,925; Mar. 8; v. 284; p. 267.
- Smythe, Mary B. (See Smythe, William H., assignor.)
- Smythe, Thomas E., Hammond, Ind. Pneumatic pump. No. 1,380,603; June 7; v. 287; p. 53.
- Smythe, William H., assignor to M. B. Smythe, Winthrop, Mass. Stationary-cabinet. No. 1,391,082; Sept. 20; v. 290; p. 461.
- Snapp, Leonard R., Columbus, Ohio. Vehicle-body. No. 1,380,083; May 31; v. 286; p. 961.
- Snead & Co. Iron Works, The. (See Macdonald, Angus S., assignor.)
- Snead & Co. Iron Works, The. (See Macdonald, Angus S. and H. P., assignors.)
- Snead & Co., Iron Works, The. (See Macdonald, Harry P., assignor.)
- Snead & Co., Iron Works, The. (See Macdonald, H. P., and Thomson, assignors.)
- Sneddon, James P., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Extrusion-press for the manufacture of steel tubes. No. 1,375,426; Apr. 19; v. 285; p. 499.
- Snediker, Morton O., assignor to The Powers Regulator Company, Chicago, Ill. Thermostatic water-mixer. No. 1,397,707; Nov. 22.
- Snee, John A., Jr., West Elizabeth, Pa. Variable-power regulation. No. 1,366,844; Jan. 25; v. 282; p. 672.
- Snell, Charles. (See Livergood, Gerald R., assignor.)
- Snell, Charles, Houston, Tex. Center-gage and micrometer. No. 1,365,289; Jan. 11; v. 282; p. 284.
- Snell, Joseph E., Newark, N. J., assignor to Henry Steers Inc., New York, N. Y. Pier construction. No. 1,391,516; Sept. 20; v. 290; p. 549.
- Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Slip-cover for motor-vehicle tops. No. 1,381,141; June 14; v. 287; p. 209.
- Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,392,534; Oct. 4.
- Snell, Lyle K., assignor to Cadillac Motor Car Company, Detroit, Mich. Air-flow-controlling mechanism for internal-combustion-engine radiators. No. 1,393,917; Oct. 18.
- Snellberger, Richard J., et al. (See Smith, Frank W., assignor.)
- Snelling, Samuel A., and B. M. Saner, assignors of one-half to said B. M. Saner and one-half to J. A. Farina, Chicago, Ill. Dolly-stretcher. No. 1,378,826; May 17; v. 286; p. 577.
- Snelling, Walter O., Allentown, Pa. Photo-electric apparatus. No. 1,375,474; Apr. 19; v. 285; p. 508.
- Snelling, Walter O., Allentown, Pa. Vulcanized-oil product. No. 1,376,172; Apr. 26; v. 285; p. 673.
- Snelling, Walter O., Allentown, Pa. Vulcanized-oil products. No. 1,376,173; Apr. 26; v. 285; p. 673.
- Snelling, Walter O., Allentown, Pa. Vulcanized-oil product. No. 1,376,174; Apr. 26; v. 285; p. 673.
- Snelling, Walter O., Allentown, Pa. Photochemical apparatus. No. 1,382,252; June 21; v. 287; p. 476.
- Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Explosive. No. 1,382,563; June 21; v. 287; p. 536.
- Snelling, Walter O., Allentown, Pa., assignor, by mesne assignments, to Trojan Powder Company, New York, N. Y. Nitrostarch explosive. No. 1,386,437; Aug. 2; v. 289; p. 93.
- Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Explosive. No. 1,386,438; Aug. 2; v. 289; p. 93.
- Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Treating undried organic nitrates and the like. No. 1,386,439; Aug. 2; v. 289; p. 93.
- Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Explosive. No. 1,386,440; Aug. 2; v. 289; p. 93.
- Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Explosive and manufacturing same. No. 1,395,775; Nov. 1.
- Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Treating undried organic nitrates and the like. No. 1,395,776; Nov. 1.
- Snelling, Walter O., Pittsburgh, Pa. Cracking oils. No. 1,371,268; Mar. 15; v. 284; p. 396.
- Snelling, Walter O., Pittsburgh, Pa. Apparatus for mixing fluids. No. 1,378,384; May 17; v. 286; p. 491.
- Snelling, Walter O., Long Island City, N. Y. Preparation of ammonia. No. 1,365,739; Jan. 18; v. 282; p. 410.
- Snelling, Walter O., Long Island City, N. Y. Photochemical apparatus. No. 1,365,740; Jan. 18; v. 282; p. 410.
- Snelling, Walter O., Long Island City, N. Y. Performing chemical reactions. No. 1,397,609; Nov. 22.
- Snider, Charles A., Atlanta, Ga. Vehicle-wheel. No. 1,397,240; Nov. 15.
- Snider, Max, Philadelphia, Pa. Supplemental waterproof and non-slippable tap-sole for shoes. No. 1,364,528; Jan. 4; v. 282; p. 94.
- Snider, Milton A., Detroit, Mich. Iceless refrigerator. No. 1,385,158; July 19; v. 288; p. 525.
- Snodgrass, Hascal, Bisbee, Ariz. Electrical fuse. No. 1,401,004; Dec. 20.
- Snow, Arthur E., Norwood, Ohio. Traction-block for automobiles. No. 1,366,031; Jan. 18; v. 282; p. 468.
- Snow, Arthur E., assignor to The American Laundry Machinery Company, Norwood, Ohio. Puff-iron. No. 1,376,045; Apr. 26; v. 285; p. 649.
- Snow, Arthur E., Erie, Pa., assignor to The American Laundry Machinery Company, Norwood, Ohio. Steam-generator. No. 1,392,366; Oct. 4.
- Snow, Arthur E., Erie, Pa., assignor to The American Laundry Machinery Company, Norwood, Ohio. Clothes-pressing apparatus. No. 1,397,300; Nov. 15.
- Snow, Charles S. H., Hampstead, London, England. Nut-lock. No. 1,376,296; Apr. 26; v. 285; p. 697.



*Alphabetical list of patentees—Continued.*

- Snow, Clarence A., assignor to The Maytag Company, Newton, Iowa. Molding apparatus. No. 1,371,447; Mar. 15; v. 284; p. 432.
- Snow, Daniel W., Fillmore, Calif. Wire-rope socket. No. 1,390,830; Sept. 13; v. 290; p. 347.
- Snow, Ernest W., Rochester, N. Y. Fuse. No. 1,374,246; Apr. 12; v. 285; p. 209.
- Snow, Eugene A., River Forest, Ill. Focusing-socket for electric lamps. No. 1,396,294; Nov. 8.
- Snow, George P., Plymouth, Mass. Antiskid device. No. 1,399,163; Dec. 6.
- Snow, Isaac, Lawrence, Mass. Shuttle. No. 1,369,306; Feb. 22; v. 283; p. 616.
- Snow, Isaac, Lawrence, Mass. Shuttle. No. 1,375,187; Apr. 19; v. 285; p. 453.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,369,478; Feb. 22; v. 283; p. 650.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,369,479; Feb. 22; v. 283; p. 650.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,369,480; Feb. 22; v. 283; p. 650.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,369,481; Feb. 22; v. 283; p. 651.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,369,482; Feb. 22; v. 283; p. 651.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler motion for looms. No. 1,369,483; Feb. 22; v. 283; p. 651.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler-motion for looms. No. 1,378,907; May 24; v. 286; p. 665.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,378,908; May 24; v. 286; p. 665.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,378,909; May 24; v. 286; p. 665.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,201; Aug. 9; v. 289; p. 316.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,202; Aug. 9; v. 289; p. 316.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,203; Aug. 9; v. 289; p. 317.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,204; Aug. 9; v. 289; p. 317.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,205; Aug. 9; v. 289; p. 317.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,319; Aug. 9; v. 289; p. 341.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,320; Aug. 9; v. 289; p. 341.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,321; Aug. 9; v. 289; p. 341.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,322; Aug. 9; v. 289; p. 341.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,323; Aug. 9; v. 289; p. 342.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,324; Aug. 9; v. 289; p. 342.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,325; Aug. 9; v. 289; p. 342.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,326; Aug. 9; v. 289; p. 342.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,327; Aug. 9; v. 289; p. 343.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,388,210; Aug. 23; v. 289; p. 626.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,392,803; Oct. 4.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,392,804; Oct. 4.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,392,805; Oct. 4.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,392,806; Oct. 4.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,392,807; Oct. 4.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,396,669; Nov. 8.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,396,670; Nov. 8.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,396,671; Nov. 8.
- Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,396,672; Nov. 8.
- Snow, Philo V., assignor to The Radiotone Photo Co., Chicago, Ill. Photographic prints on metal. (Reissue.) No. 15,103; May 10; v. 286; p. 367.
- Snow, Theodore T., Sioux Falls, S. D. Urine-container and supporter therefor. No. 1,372,101; Mar. 22; v. 284; p. 613.
- Snow, William W. (See Jansen, E. W., and Jandy, assignors.)
- Snyder, Arthur H., and A. Kowal, Los Angeles, Calif. Wrench. No. 1,371,649; Mar. 15; v. 284; p. 471.
- Snyder, Charles W., Los Angeles, Calif. Vaporizing apparatus. No. 1,386,376; Aug. 2; v. 289; p. 81.
- Snyder, Edward R., East Orange, N. J., assignor to The Barrett Company. Shingle. No. 1,365,800; Jan. 18; v. 282; p. 422.
- Snyder, Francis M., Mansfield, Ohio. Means for coupling and uncoupling relatively movable members of machines. No. 1,382,131; June 21; v. 287; p. 454.
- Snyder, Frank. (See Nelson, C., and Snyder.)
- Snyder, Frank B., Altoona, Pa. Vehicle-brake. No. 1,401,005; Dec. 20.
- Snyder, Frank M., assignor to The Peerless Wire Goods Company, La Fayette, Ind. Supporting-leg for superposing trays. No. 1,396,148; Nov. 8.
- Snyder, Frederick T., Oak Park, assignor to Industrial Electric Furnace Company, Chicago, Ill. Electric furnace and operating same. No. 1,379,942; May 31; v. 286; p. 934.
- Snyder, Frederick T., Oak Park, assignor to S. D. Flood, Chicago, Ill. Baking apparatus. No. 1,395,211; Oct. 25.
- Snyder, George C., New York, N. Y. Coating device. No. 1,391,281; Sept. 20; v. 290; p. 501.
- Snyder, George C., assignor of one-sixth to F. K. Hoffman and one-sixth to E. T. I. Thygeson, New York, N. Y. Package-tie. No. 1,376,472; May 3; v. 286; p. 18.
- Snyder, George C., assignor of one-sixth to F. K. Hoffman and one-sixth to E. T. I. Thygeson, New York, N. Y. Tie-keeper. No. 1,386,660; Aug. 9; v. 289; p. 209.
- Snyder, Herbert W. (See Woodard, W. E., and Snyder.)
- Snyder, Howard F., assignor to The Maytag Company, Newton, Iowa. Tractor. No. 1,371,985; Mar. 15; v. 284; p. 535.
- Snyder, Howard F., assignor to The Maytag Company, Newton, Iowa. Washing-machine. No. 1,381,940; June 21; v. 287; p. 419.
- Snyder, Howard F., assignor to The Maytag Company, Newton, Iowa. Washing-machine. No. 1,381,941; June 21; v. 287; p. 419.
- Snyder, Howard F., assignor to The Maytag Company, Newton, Iowa. Washing-machine. No. 1,391,214; Sept. 20; v. 290; p. 487.
- Snyder, Joseph L. K. (See MacMillan, J. R., and Snyder.)
- Snyder, Louis, Philadelphia, Pa. Padlock. No. 1,367,104; Feb. 1; v. 283; p. 44.
- Snyder, Neville S., Bayard, Nebr. Auxiliary jack. No. 1,367,167; Feb. 1; v. 283; p. 57.
- Snyder, Neville S. and W. A., Bayard, Nebr. Automobile attachment for trailers. No. 1,367,166; Feb. 1; v. 283; p. 56.
- Snyder, O. K., and C. H. Kenrich, assignors to The American Wood Rim Company, Onaway, Mich. Steering-wheel. No. 1,381,025; June 7; v. 287; p. 135.
- Snyder, Perry, Veillette, assignor of one-half to J. A. Mitchell, Paken, Alberta, Canada. Rake. No. 1,372,464; Mar. 22; v. 284; p. 683.
- Snyder, Sherwood P., Dayton, Ohio. Food product. No. 1,385,503; July 26; v. 288; p. 671.
- Snyder, Walter A. (See Snyder, Neville S. and W. A.)
- Snyder, Ward F., St. Johns, Mich. Luggage-carrier. No. 1,368,852; Feb. 15; v. 283; p. 490.
- Snyder, William A., Los Angeles, Calif. Outing-table. No. 1,401,449; Dec. 27.
- Snyder, William A., assignor of one-half to E. P. and A. Rundle, Los Angeles, Calif. Table. No. 1,369,199; Feb. 22; v. 283; p. 596.
- Snyder, William H., Ashbourne, Pa. Anti-skidding device for vehicle-wheels. No. 1,386,377; Aug. 2; v. 289; p. 81.
- Snyder, William P. (See Adair, M., and Snyder.)
- Snyder, Willoughby E., Allentown, Pa. Process of and apparatus for burning cements. No. 1,381,026; June 7; v. 287; p. 135.
- Soar, Arthur G., South Wanstead, England. Metallic waistband. No. 1,371,448; Mar. 15; v. 284; p. 432.
- Soars, Cyril A., Chicago, Ill., assignor, by mesne assignments, to Acme Card System Company. Listing device. No. 1,394,231; Oct. 18.
- Sochurek, George, New York, N. Y. Indoor-golf course. No. 1,371,820; Mar. 15; v. 284; p. 503.



- Società Anonima A. B. G. D. (See Bonomini, B., and Duca, assignors.)
- Società Anonima Italiana Gio, Ansaldo & Co. (See Delacourt, Alberto F., assignor.)
- Società Anonima Manifattura Luigi Duca. (See Duca, Luigi, assignor.)
- Società Anonima Stabilimenti Biak. (See Tedesco, Arrigo, assignor.)
- Società Brevetti Feriani. (See Feriani, Gaetano, assignor.)
- Société Anonyme Adolphe Saurer. (See Schlatter, G. S., and Boeckly, assignors.)
- Société Anonyme Ateliers Otis-Pifre. (See Derungs, Alphonse, assignor.)
- Société Anonyme Des Appareils De Manutention Et Fours Stein. (See Stein, Charles M., assignor.)
- Société Anonyme Des Ateliers De Sécheron. (See Von Zeerleder, Alfred, assignor.)
- Société Anonyme des Ateliers et Chantiers de la Loire. (See Lauprêtre, Claude, assignor.)
- Société Anonyme Des Automobiles Et Cycles Peugeot. (See Glaugue, Pierre L. A., assignor.)
- Société Anonyme Des Etablissements Delaunay Belleville. (See Bourdelles, Emile A. L., assignor.)
- Société Anonyme des Etablissements L. Blériot. (See Bossu, Pierre, assignor.)
- Société Anonyme Des Etablissements, A. Olier. (See Roussillon, Philippe, assignor.)
- Société Anonyme Des Etablissements Nieuport. (See Delage, Gustave, assignor.)
- Société Anonyme des Fours à Coke Semet-Solway & Piette. (See Piette, Olivier, assignor.)
- Société Anonyme des Manufactures des Glaces et produits Chimiques de Saint-Gobain, Chauny & Cirey. (See Debaecker, Georges H. L., assignor.)
- Société Anonyme Du Moteur L. Thomas. (See Thomas, L. V., and Guerin, assignors.)
- Société Anonyme John Cockerill. (See Gendarme, Tous-saint, assignor.)
- Société Anonyme Le Carbone. (See Gindre, Eugène, assignor.)
- Société Anonyme pour L'Equipment Electrique des Vehi-cules. (See Dutreux, Auguste, assignor.)
- Société Auxiliaire d'Exploitations Industrielles. (See Mauger, Nestor, assignor.)
- Société Chimique des Usines du Rhone, (Anciennement Gilliard P. Monnet et Cartier.) (See Altwegg, J., and Landrivin, assignors.)
- Société Chimique Des Usines Du Rhone (Anciennement Gilliard P. Monnet et Cartier.) (See Koetschet, J., and Beudet, assignors.)
- Société Chimique Des Usines Du Rhone (Anciennement Gilliard P. Monnet et Cartier.) (See Prince, Edmond, assignor.)
- Société Darrasse Frères. (See Dupont, Lucien, assignor.)
- Société de Moteurs à Gaz et d'Industrie Mechanique. (See Cottard, Jean B., assignor.)
- Société Des Etablissements Ballot Courbevoie. (See Guil-son, William, assignor.)
- Société Des Moteurs Gnome Et Rhone. (See Lefranc, Eugène L., assignor.)
- Société des Moteurs Gnome et Rhone. (See Seguin, Laurent, assignor.)
- Société des Moteurs Salmson (Systeme Canton-Unne.) (See Postel-Vinay, Pierre, J. R., assignor.)
- Société des Navires en Ciment Armé. (See Freyssinet, Eugène, assignor.)
- Société des Produits Azotés. (See Barbé, Léonce, as-signor.)
- Société De Stearinerie et Savonnerie De Lyon. (See Radisson, A., and Berthon, assignors.)
- Société dite: Rochette Frères. (See Miguët, Paul, as-signor.)
- Société d'Optique et de Mecanique de Haute Precision. (See Fouasse, Henri, assignor.)
- Société d'Optique et de Mecanique de Haute Précision. (See Godillon, Victor H., assignor.)
- Société d'Outillage Mecanique et d'Usinage d'Artillerie. (See Pérony, Jean, assignor.)
- Société du Four Vertical Continu. (See Pieters, Julien, assignor.)
- Société Fabriques de Produits Chimiques de Thann et de Mulhouse. (See Comment, Paul, assignor.)
- Société Franco-Belge De Fours a Coke, The. (See Piette, Olivier, assignor.)
- Société Gillet & Fils. (See Schwartz, Charles, assignor.)
- Société R. Guyot & Cie. (See Guyot, Henri R., assignor.)
- Société Hue Frères et Loubet. (See Loubet, Pierre, as-signor.)
- Société Industrielle De Celluloid. (See Schueller, Eugène, assignor.)
- Société Industrielle pour l'emploi des Petroles lampants dans tous Moteurs à explosion. (See Berruet, Henri J., assignor.)
- Société L'Air Liquide Société Anonyme Pour L'Etude Et L'Exploitation Des Procédés Georges Clark. (See Claude, Georges, assignor.)
- Société Les Petits Fils De Francois De Wendel Et Cie. (See Weber, Guillaume, assignor.)
- Société Lorraine des Anciens Etablissements de Dietrich & Cie. De Luceville. (See Maire, Auguste, assignor.)
- Société Lyonnaise Des Rechauds Catalytiques, Camell, Cochet, Gritte & Cie. (Société en commandite.) (See Camell, R., Cochet, and Gritte, assignors.)
- Société Lyonnaise D'Industrie Mecanique. (See Adenot, Marius, assignor.)
- Société Maurice et Pierre Collet & Cie. (See Collet, Albert, assignor.)
- Société "Anciens Etablissements Caffort Freres," The. (See Jouffret, Henri V. J., assignor.)
- "Society of Chemical Industry in Basle." (See De Mont-molin, G., and Spieler, assignors.)
- Society of Chemical Industry in Basle. (See Gams, A., and Kaiser, assignors.)
- Society of Chemical Industry in Basle. (See Grob, Armin, assignor.)
- Society of Chemical Industry in Basle. (See Jagerspacher, Carl, assignor.)
- Society of Chemical Industry in Basle. (See Kottmann, Kurt, assignor.)
- Society of Chemical Industry in Basle. (See Rupe, J. Hans, assignor.)
- Society of Chemical Industry in Basle. (See Schuler, Josef, assignor.)
- Société Fabriques des Moutres Zenith successeur de Fa-briques des Moutres Zenith, Georges Favre-Tacot & Cie., The. (See Andreino, Hector, assignor.)
- Society "Freese Patent" Eisenschutz und Schrauben-wellenbekleidung für Schiffe G. m. b. H. (See Freese, August, assignor.)
- Society "Technochemia" Aktiengesellschaft. (See Schweitzer, Wilhelm H., assignor.)
- Sodeau, William H., and V. P. Francombe, St. Tropez Var, France, assignors to The Whitehead Torpedo Works (Weymouth) Limited, (In Liquidation), Weymouth, England. Automobile torpedo. No. 1,401,288; Dec. 27.
- Soden, Thomas B. (See Hawk, Ivan O., assignor.)
- Soderberg, Henry A., Jersey City, N. J. Indicator. No. 1,401,006 Dec. 20.
- Soderberg, Jacob, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-rolling mechanism. No. 1,398,046; Nov. 22.
- Soderberg, Ruth G., Grand Marais, Minn. Book construc-tion. No. 1,387,206; Aug. 9; v. 289; p. 317.
- Soderling, Walter, assignor, by mesne assignments, to Willson Giggles, Inc., Reading, Pa. Molded device. No. 1,382,865; June 28; v. 287; p. 647.
- Soderquist, John, Beloit, Wis. Flue-cleaner. No. 1,390,831; Sept. 13; v. 290; p. 347.
- Soderstrom, Carl E., Muskegon, Mich. Emery-wheel dresser. No. 1,395,606; Nov. 1.
- Söderström, John T. (See Larson, E. G., and Söderström.)
- Soderstrom, Karl A., Philadelphia, Pa. Valve. No. 1,395,018; Oct. 25.
- Soderstrom, Oscar V. (See Stone, Reuben, assignor.)
- Soete, Leonard P., Louisville, Ky. Car-wheel. No. 1,400,246; Dec. 13.
- Soellner, Herman, Brooklyn, N. Y. Attachment for doors. No. 1,370,062; Mar. 1; v. 284; p. 58.
- Sohm, Alfred L., Chicago, Ill. Time-indicating system. No. 1,394,647; Oct. 25.
- Sohm, Alfred L., assignor to Sohmm Electric Company, Chi-cago, Ill. Self-winding clock. No. 1,394,689; Oct. 25.
- Sohm, Alfred L., assignor to Sohmm Electric Company, Chicago, Ill. Pendulum. No. 1,394,690; Oct. 25.
- Sohm Electric Company. (See Sohmm, Alfred L., as-signor.)
- Sohn, Louis H., Huron, S. D. Fan. No. 1,391,517; Sept. 20; v. 290; p. 549.
- Sohnle, Friedrich, Newark, N. J. Brush-holder. No. 1,391,017; Sept. 20; v. 290; p. 447.
- Sohnle, Friedrich, Newark, N. J. Brush-holder. No. 1,391,018; Sept. 20; v. 290; p. 448.
- Sokolowski, John, Milwaukee, Wis. Garbage-receptacle. No. 1,365,558; Jan. 11; v. 282; p. 336.
- Sokolowski, Stanley, and J. Forgiel, Taunton, Mass. Non-sinkable ship. No. 1,391,421; Sept. 20; v. 290; p. 530.
- Solaini, Peter, Astoria, N. Y. Lock. No. 1,380,116; May 31; v. 286; p. 967.
- Solaini, Peter, Astoria, N. Y. Lock. No. 1,380,117; May 31; v. 286; p. 968.
- Solan, Patrick F., Brooklyn, and H. S. Balliet, New York, N. Y. Structural framework for walls, partitions, roofs, &c. No. 1,397,301; Nov. 15.
- Solar Metal Products Company. (See Gogay, Henry R., assignor.)
- Solarz, Stanley, St. Paul, Minn. Detachable shoe-heel. No. 1,383,436; July 5; v. 288; p. 37.
- Solberg, Christopher L., Minneapolis, Minn. Lawn or gar-den table. No. 1,390,651; Sept. 13; v. 290; p. 312.
- Solberg, Jennie H., Portland, Oreg. Advertising device. No. 1,369,307; Feb. 22; v. 283; p. 616.
- Soldani, Girolamo, Spencer, Mass. Tire-shield. No. 1,373,984; Apr. 5; v. 285; p. 119.
- Soldani, Girolamo, Spencer, Mass. Combined tire-armor and antiskid device. No. 1,373,985; Apr. 5; v. 285; p. 119.
- Soldani, Girolamo, Spencer, Mass. Ice-cream-cone dis-penser. No. 1,373,986; Apr. 5; v. 285; p. 119.
- Soler, Rafael A., and J. G. Negrete, Habana, Cuba. Appa-ratus for cutting vegetables. No. 1,386,970; Aug. 9; v. 289; p. 272.
- Soley, Frank, assignor to Miller Lock Company, Phila-delphia, Pa. Padlock. No. 1,384,682; July 12; v. 288; p. 346.
- Soli, Charles J., Racine, Wis. Pane-fastener. No. 1,385,725; July 26; v. 288; p. 716.



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- Sollima, Carmelo, Paris, France, assignor to C. Pignalosa, Rome, Italy. Child's vehicle. No. 1,400,326; Dec. 13.
- Solomon, Edgar J., assignor to Avery Company, Peoria, Ill. Traction-wheel. No. 1,377,289; May 10; v. 286; p. 230.
- Solomon, Edgar J., assignor to Avery Company, Peoria, Ill. Automatic releasing-coupling. No. 1,391,422; Sept. 20; v. 290; p. 530.
- Solomon, Irving R., Los Angeles, Calif. Battery apparatus. No. 1,365,801; Jan. 18; v. 282; p. 423.
- Solomon, Joseph, Los Angeles, Calif. Shock-absorbing bumper. No. 1,372,839; Mar. 29; v. 284; p. 798.
- Solomon, Randolph, Alexandria, assignor of one-half to G. Henry Shryock, Herndon, Va. Packingless valve. No. 1,374,774; Apr. 12; v. 285; p. 311.
- Solter, John F., and W. Gindler, Collinsville, Ill. Ladder. No. 1,371,449; Mar. 15; v. 284; p. 432.
- Somers, Roy B., Zeeland, and T. Olinger, assignors to Federal Stamping Company, Holland, Mich. Spring-oiler. No. 1,391,518; Sept. 20; v. 290; p. 549.
- Somershoe, Christian, Philadelphia, Pa. Rail-tie. No. 1,370,376; Mar. 1; v. 284; p. 117.
- Sommer, J. L., Manufacturing Co. (See Sommer, John L., assignor.)
- Sommer, John, Peoria, Ill. Excavating-machine. No. 1,376,837; May 3; v. 286; p. 87.
- Sommer, John, Peoria, assignor to Keystone Steel & Wire Company, South Bartonville, Peoria, Ill. Reel. No. 1,372,784; Mar. 29; v. 284; p. 786.
- Sommer, John, Peoria, assignor to Keystone Steel & Wire Company, South Bartonville, Peoria, Ill. Bale-tie machine. No. 1,393,178; Oct. 11.
- Sommer, John L., Newark, N. J., assignor to J. L. Sommer Manufacturing Co. Key-ring clip. No. 1,392,715; Oct. 4.
- Sommer, Otto, assignor to Stauwerke A.-G., Zurich, Switzerland. Movable dam of ferroconcrete. No. 1,382,132; June 21; v. 287; p. 454.
- Sommer, William H., assignor to The Keystone Steel & Wire Company, Peoria, Ill. Rolling-mill. No. 1,370,063; Mar. 1; v. 284; p. 58.
- Sommer, William H., Peoria, assignor to Keystone Steel & Wire Company, South Bartonville, Peoria, Ill. Rolling-mill. No. 1,373,029; Mar. 29; v. 284; p. 836.
- Sommer, William H., Peoria, Ill., assignor, by mesne assignments, to The First Trust & Savings Company, Cleveland, Ohio, and J. A. Chapman, Chicago, Ill., trustees. Wire fence. No. 1,378,489; May 17; v. 286; p. 512.
- Sommermeier, Frank R., Minneapolis, Minn. Stage-effect-controlling device for use in conjunction with motion-picture machines. No. 1,379,654; May 31; v. 286; p. 881.
- Sommermeier, Frank R., Spring Lake, Mich. Synchronizing mechanism. No. 1,391,423; Sept. 20; v. 290; p. 530.
- Sommers, Floyd H., Bowling Green, Ohio. Toy machine-gun. No. 1,385,054; July 19; v. 288; p. 503.
- Sommers, Frank, Indiana Harbor, Ind. Piling-machine. No. 1,399,528; Dec. 6.
- Somora, Joseph, Chicago, Ill. Combination keyhole-guard. No. 1,380,260; May 31; v. 286; p. 994.
- Sonander, Andrew, assignor to Howe Scale Company, Rutland, Vt. Scale. No. 1,379,726; May 31; v. 286; p. 894.
- Soncini, Cesare, Pont St. Martin, Italy. Electric furnace. No. 1,375,615; Apr. 19; v. 285; p. 534.
- Songey, Elmo, Asheville, N. C. Window-fastener. No. 1,376,122; Apr. 26; v. 285; p. 664.
- Sonnenberg, Charles A., Columbus, Ind. Cabinet-door. No. 1,386,738; Aug. 9; v. 289; p. 225.
- Sonnenenthal, Irving, New York, N. Y. Hook-latch. No. 1,370,711; Mar. 8; v. 284; p. 227.
- Sonner, Luke V., Buhl, Idaho. Sickie-grinder. No. 1,369,569; Feb. 22; v. 283; p. 668.
- Sonora Phonograph Corporation. (See Farb, Pincus, assignor.)
- Sonora Phonograph Corporation. (See Herzog, John, assignor.)
- Sonora Phonograph Corporation. (See Malocsay, Frank, assignor.)
- Sonora Phonograph Corporation. (See Oberst, Frank, assignor.)
- Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)
- Sontgerathe, Joseph F., and R. Kale, Cherryvale, Kans. Convertible plate or cover for electrical receptacles. No. 1,399,899; Dec. 13.
- Sonsthagen, Asbjorn, Essex, England. Chocolate and like coating machine. No. 1,391,914; Sept. 27; v. 290; p. 702.
- Sonsthagen, Asbjorn, Leytonstone, England. Machine for coating chocolate bonbons. No. 1,393,460; Oct. 11.
- Sontow, Herman, Wilmington, Del. Locking device. No. 1,388,159; Nov. 22.
- Soons, James E., New York, and H. Robinson, Brooklyn, assignors of one-half to E. Caterson, Woodlawn, New York, N. Y. Automatic arc-regulator. No. 1,374,404; Apr. 12; v. 285; p. 239.
- Soper, C. P., Maplewood, N. J., and J. A. Hall, Bayside, assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic step-by-step mechanism. No. 1,381,514; June 14; v. 287; p. 277.
- Soper, Ellis C., Chattanooga, Tenn. Treatment of phosphates. No. 1,396,149; Nov. 8.
- Soper, Ellis C., Chattanooga, Tenn. Treatment of phosphates. No. 1,396,975; Nov. 15.
- Soper, Walter R., Lynn, Mass., assignor to Associated Tanners Machinery Co. Glazing-machine. No. 1,376,473; May 3; v. 286; p. 18.
- Soravia, Joseph. (See Winquist, F., and Soravia.)
- Sorber, Samuel R., et al. (See Isenhour, Luther J., assignor.)
- Sorce, Gaetano. (See Butera, J., and Sorce.)
- Sorci, Olinto, Canastota, N. Y. Gluing-machine. No. 1,371,942; Mar. 15; v. 284; p. 527.
- Soreng, Edgar M., assignor to Briggs & Stratton Company, Milwaukee, Wis. Regulator. No. 1,383,494; July 5; v. 288; p. 49.
- Sorensen, Charles E., Dearborn, assignor to Henry Ford & Son Inc., Detroit, Mich. Producing ball-bearing structures. No. 1,395,607; Nov. 1.
- Sorensen, Frank L. (See Haines, F. W., and Sorensen.)
- Sorensen, Frank L., assignor to The Metal Protection Laboratories, Detroit, Mich. Treating ferrous-metal articles. No. 1,380,847; June 7; v. 287; p. 100.
- Sorensen, Gustav A., Jamaica, N. Y. Egg-cooker. No. 1,388,614; Aug. 23; v. 289; p. 706.
- Sorensen, Hans, Hardy, Iowa. Shade-roller. No. 1,399,812; Dec. 13.
- Sorensen, Holger, Marne, Iowa. Traffic-signal. No. 1,368,064; Feb. 8; v. 283; p. 288.
- Sörensen, Marius M., Vallerød, near Rungsted, Denmark. Appliance for riding the margin of the sole of footwear. No. 1,376,474; May 3; v. 286; p. 19.
- Sörensen, Marius M., Vallerød, near Rungsted, Denmark. Pulling-over machine for boots and shoes. No. 1,382,564; June 21; v. 287; p. 536.
- Sörensen, Marius M., Vallerød, near Rungsted, Denmark. Machine for straightening wire. No. 1,383,576; July 5; v. 288; p. 66.
- Sorensen, Martin, Seattle, Wash. Detachable button. No. 1,368,065; Feb. 8; v. 283; p. 288.
- Sorensen, Sam, assignor to C. E. Reed, Houston, Tex. Drill-head for oil-wells. No. 1,394,769; Oct. 25.
- Sorenson, Harry N., Toledo, Ohio. Door-buffer. No. 1,399,164; Dec. 6.
- Sorenson, Henry A., Harvey, N. D. Straw-spreader. No. 1,391,019; Sept. 20; v. 290; p. 448.
- Sorenson, James, assignor to Four Wheel Drive Auto Co., Clintonville, Wis. Treating steel and iron parts. No. 1,373,573; Apr. 5; v. 285; p. 38.
- Soresi, Angelo L., New York, N. Y., assignor to International Surgical Instruments Company, Inc. Rotary cutting and drilling instrument. No. 1,377,288; May 10; v. 286; p. 230.
- Soresi, Angelo L., New York, N. Y. Collar. No. 1,378,142; May 17; v. 286; p. 447.
- Sorg, Albert A., Grand Rapids, Mich. Ladder. No. 1,377,977; May 10; v. 286; p. 363.
- Sorg, William A., Denver, Colo. Combustion-engine. No. 1,383,577; July 5; v. 288; p. 66.
- Sosa, Augustus M., assignor to The American Tool Works Company, Cincinnati, Ohio. Feeding mechanism for metal-working machinery. No. 1,375,024; Apr. 19; v. 285; p. 422.
- Soss, Joseph, New York, N. Y. Window-frame for automobile-hoods. No. 1,364,459; Jan. 4; v. 282; p. 80.
- Soss, Joseph, New York, N. Y. Window-frame for automobile-hoods and the like. No. 1,364,460; Jan. 4; v. 282; p. 81.
- Soss, Joseph, New York, N. Y. Fastening and binding device. No. 1,364,461; Jan. 4; v. 282; p. 81.
- Soss, Joseph, New York, N. Y. Method of and apparatus for making die-castings. No. 1,378,984; May 24; v. 286; p. 679.
- Soss, Joseph, New York, N. Y. Window-frame for automobile-hoods and the like. No. 1,381,357; June 14; v. 287; p. 248.
- Soss, Joseph, New York, N. Y. Hinge. No. 1,385,800; July 26; v. 288; p. 731.
- Soss, Joseph, New York, N. Y. Door. No. 1,393,047; Oct. 11.
- Soteros, Louis C., and J. S. Cavallenes, Gary, Ind. Screen. No. 1,393,405; Oct. 11.
- Soulacroix, Gabriel A. V., Paris, France. Buckle for straps, belts, and the like. No. 1,380,261; May 31; v. 286; p. 994.
- Soule, Charles R., San Francisco, Calif. Knockdown cabinet for phonographs. No. 1,400,632; Dec. 20.
- Soule, Leslie W., Seattle, Wash. Automobile-signal. No. 1,398,923; Nov. 29.
- Souliotis, Kyriakos, assignor of one-half to S. Nicholson, Washington, D. C. Life-saving suit. No. 1,375,803; Apr. 26; v. 285; p. 602.
- Sourek, William, Elmer, Minn., and J. Kopfhamer, Cazenovia, Wis. Artificial arm. No. 1,399,031; Dec. 6.
- Sousa, John R., Oakland, Calif. Laundry-distributing machine. No. 1,389,278; Aug. 30; v. 289; p. 893.
- Souter, Dracos, Baton Rouge, La. Hose-holder. No. 1,372,571; Mar. 22; v. 284; p. 704.
- South, Joseph W., Memphis, Tenn. Safety device for picture-projecting apparatus. No. 1,376,297; Apr. 26; v. 285; p. 697.
- Southall, Christopher. (See Hackett, H., Smith, and Southall.)



- Southard, Alfred M., Chicago, Ill., assignor to Taylor-Southard Company. Windshield. No. 1,390,652; Sept. 13; v. 290; p. 312.
- Southern Agricultural Chemical Corporation. (See Tuttle, Arthur L., assignor.)
- Southern Carbon Company. (See Rumbarger, Bradley W., assignor.)
- Southern Ohio Tin Can Company, The. (See Clark, H. L., and Sower, assignors.)
- Southern-Rome Company. (See Phipps, Arthur, assignor.)
- Southern Wheel Company. (See Fox, John F., assignor.)
- Southgate, George T., East Orange, N. J. Electric fixation of gases. No. 1,369,714; Feb. 22; v. 283; p. 696.
- Southgate, George T., New York, N. Y. Electric fixation of gases. No. 1,373,639; Apr. 5; v. 285; p. 50.
- Southington Hardware Co., The. (See Curtiss, George L., assignor.)
- Southwell, Charles R., San Antonio, Tex. Filing-cabinet. No. 1,389,279; Aug. 30; v. 289; p. 893.
- Southwell, John A., Scranton, Pa. Automobile-signal. No. 1,383,870; July 5; v. 288; p. 127.
- Southwick, Albert A., New York, N. Y. Designer's tool. No. 1,376,475; May 3; v. 286; p. 19.
- Southwick, Lawrence P. (See Fodge, M., and Southwick.)
- Southwick, Lawrence P. (See Fodge, M., and Southwick.) (Reissue.)
- Southwick, William S., assignor, by mesne assignments, to Wickwire Spencer Steel Corporation, Clinton, Mass. Rotary welding-machine. No. 1,367,212; Feb. 1; v. 283; p. 66.
- Southwick, William S., Clinton, Mass., assignor, by mesne assignments, to Wickwire Spencer Steel Corporation. Shuttle and filling unit for wire-loom. No. 1,374,268; Mar. 29; v. 284; p. 883.
- Soutulo, Raymond J., assignor of one-half to R. W. Shaw, Mobile, Ala. Bottle-refrigerator. No. 1,390,934; Sept. 13; v. 290; p. 368.
- Sower, James H. (See Clark, H. L., and Sower.)
- Sowers, George S., Spring Hill, Kans. Supporting means for hay-slings. No. 1,398,472; Nov. 29.
- Spach, Amuel B. (See Bergman, Frederick, assignor.)
- Spacie, Thomas, De Kalb, Ill. Driving and steering wheel. No. 1,382,253; June 21; v. 287; p. 476.
- Spade, William P., Watervliet, assignor to Watervliet Tool Company, Inc., Albany, N. Y. Apparatus for rifling gun-barrels. No. 1,382,939; June 28; v. 287; p. 661.
- Spadone, Henry, *et al.* (See Wegner, Julius, assignor.)
- Spadone, Walter W., *et al.* (See Wegner, Julius, assignor.)
- Spahr, Otto, assignor to Strause Gas Iron Co., Philadelphia, Pa. Valve attachment. No. 1,364,147; Jan. 4; v. 282; p. 19.
- Spahr, Otto, assignor to Strause Gas Iron Co., Philadelphia, Pa. Self-heating sadiron. No. 1,399,813; Dec. 13.
- Spalding, A. G., & Bros. (See Albin, Everett V., assignor.)
- Spalding, A. G., & Bros. (See Orr, William J., assignor.)
- Spalding, A. G., & Bros. (See Pierce, George L., assignor.)
- Spalding, A. G., & Bros. (See Pierce, Howard M., assignor.)
- Spalding, A. G., & Bros. (See Reach, William F., assignor.)
- Spalding, A. G., & Bros. (See Saunders, Addison T., assignor.)
- Spalding, A. G., & Bros. (See Thorp, Edward J., assignor.)
- Spalding, Claude E., Richmond, Calif. Concrete-form board. No. 1,383,161; June 28; v. 287; p. 704.
- Spalding, Henry W., *et al.* (See Grinham, Frederick, assignor.)
- Spalding Ski-Kar Company, Inc. (See Spaulding, Thomas W., assignor.)
- Spanell, Joseph, Hazleton, Pa. Drill-holder. No. 1,390,731; Sept. 13; v. 290; p. 327.
- Spangler, Charles M., Emporium, Pa. Boiler-flue tool. No. 1,391,862; Sept. 27; v. 290; p. 692.
- Spangler, Charles M., Emporium, Pa. Boiler-flue tool. No. 1,400,102; Dec. 13.
- Spangler, Harvey E., Buffalo, N. Y. Shock-absorber. No. 1,371,123; Mar. 8; v. 284; p. 305.
- Spangler, Harvey E., Buffalo, N. Y. Spring mechanism. No. 1,371,124; Mar. 8; v. 284; p. 305.
- Spangler, Henry R., Pueblo, Colo. Tire-pressure indicator and alarm. No. 1,398,449; Nov. 29.
- Spangler, John B., *et al.* (See Lickiss, Ernest E., assignor.)
- Spangler, John H., Minneapolis, assignor of one-half to G. Tegeler, St. Paul, Minn. Collapsible box for shipment of eggs and other articles. No. 1,373,107; Mar. 29; v. 284; p. 851.
- Spanitz, Joseph, Chicago, Ill. Retainer for anti-friction-bearings. No. 1,365,426; Jan. 11; v. 282; p. 310.
- Spardon Electrical Products Company Limited. (See Hudon, A., and Ward, assignors.)
- Sparks-Withington Company, The. (See Withington, Philip H., assignor.)
- Sparks, Charles, assignor to Kellogg Switchboard & Supply Co., Chicago, Ill. Relay. No. 1,396,072; Nov. 8.
- Sparks, Charles F., St. Louis, Mo. Bag closing and tying machine. No. 1,400,327; Dec. 13.
- Sparks, Fred E., Akron, Ohio, assignor to Automatic Burglar Alarm Company, Charleston, W. Va. Burglar-alarm. No. 1,398,160; Nov. 22.
- Sparks, John B., Haven, Va. Coal-car-check holder. No. 1,386,378; Aug. 2; v. 289; p. 81.
- Sparks, John M., Washtucna, Wash. Weed-cutter. No. 1,381,358; June 14; v. 287; p. 249.
- Sparks, William, Jackson, Mich., assignor to The Sparks-Withington Company, Cleveland, Ohio. Radiator. No. 1,397,116; Nov. 15.
- Sparks, William, Jackson, Mich., assignor to The Sparks-Withington Company, Cleveland, Ohio. Fuel-feeding device. No. 1,398,206; Nov. 22.
- Sparks, William, Jackson, Mich., assignor to The Sparks-Withington Company, Cleveland, Ohio. Bracket. No. 1,400,007; Dec. 13.
- Sparks-Withington Company, The. (See Sparks, William, assignor.)
- Sparling, Elliott W. (See Osman, Ralph T., assignor.)
- Sparling, Harry D., Walden, N. Y. Countersink-gage. No. 1,389,390; Aug. 30; v. 289; p. 915.
- Sparling, John E., Boston, Mass. Shaft-coupling. No. 1,377,101; May 3; v. 286; p. 138.
- Sparmaker, Frank P. J., Audubon, N. J. Burial-casket attachment. No. 1,366,681; Jan. 25; v. 282; p. 639.
- Sparre, Fin, and W. E. Masland, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chlorination. No. 1,379,367; May 24; v. 286; p. 752.
- Sparrow, William T., Newport News, Va. Pneumatic centering-punch. No. 1,380,118; May 31; v. 286; p. 968.
- Spartan Needle Company. (See Taft, Sydney E., assignor.)
- Spartan Needle Company. (See Wilcomb, J. F., assignor.)
- Spartz, Peter, Saukville, Wis. Bag-holder. No. 1,399,814; Dec. 13.
- Spasoff, Chris, Berkeley, Calif. Burnishing-wheel cover. No. 1,382,254; June 21; v. 287; p. 477.
- Spatter, Noah, Kansas City, Mo., and A. Welikoff, Wilkes-Barre, Pa. Faucet with drinking attachment. No. 1,392,456; Oct. 4.
- Spatz, Daniel B., Reading, Pa. Vehicle signal device. No. 1,386,906; Aug. 9; v. 289; p. 260.
- Spatz, Edward L. (See Bruner, Joseph V., assignor.)
- Spaulding, Elijah F., assignor to A. Zimbaum, Brooklyn, N. Y. Vending-machine. No. 1,370,232; Mar. 1; v. 284; p. 90.
- Spaulding, Elijah F., assignor to A. Zimbaum, Brooklyn, N. Y. Vending-machine. No. 1,380,685; June 7; v. 287; p. 68.
- Spaulding, Franklin, assignor to G. W. Christopher, Chicago, Ill. Film-reel. No. 1,385,191; July 19; v. 288; p. 532.
- Spaulding, Fred C. (See Burky, Edward L., assignor.)
- Spaulding, Irvin A. (See Peplinski, J. A., and Spaulding.)
- Spaulding, Thomas, Los Angeles, Calif. Automatic noiseless railway-crossing. No. 1,367,837; Feb. 8; v. 283; p. 246.
- Spaulding, Thomas W., assignor to Spaulding Ski-Kar Company, Inc., Baltimore, Md. Toy vehicle. No. 1,400,917; Dec. 20.
- Speaber, Theodore, Chicago, Ill. Embalming fluid. No. 1,390,392; Sept. 13; v. 290; p. 259.
- Speakman Company. (See Speakman, W. A., and Fraser, assignors.)
- Speakman, Willard A., and J. Fraser, assignors to Speakman Company, Wilmington, Del. Mold-table. No. 1,371,401; Mar. 15; v. 284; p. 423.
- Spear, Arthur, Chicago, Ill. Punching-machine. No. 1,382,687; June 28; v. 287; p. 614.
- Spear, Arthur, assignor, by mesne assignments, to Archer Manufacturing Company, Chicago, Ill. Punching-machine. No. 1,382,940; June 28; v. 287; p. 662.
- Spear, George H., North Reading, Mass. Roller conveyor. No. 1,366,966; Feb. 1; v. 283; p. 17.
- Spearman, Charles, Westmount, Quebec, Canada. Flotation process. No. 1,377,937; May 10; v. 286; p. 355.
- Spears, Harry E., Baltimore, Md. Automatic draft control for heating apparatus. No. 1,399,815; Dec. 13.
- Specht, Adolph A., assignor to Gem City Stove Manufacturing Company, Quincy, Ill. Combined gas and coal stove. No. 1,385,726; July 26; v. 288; p. 716.
- Specht, H. Mortimer. (See Scheele, Walter T., assignor.)
- Spechtmeier, Heinrich, Bargtheide, Germany. Tow-hook for steam-tugs. No. 1,377,159; May 3; v. 286; p. 148.
- Specialty Automatic Machine Company. (See La Bombard, Leon E., assignor.)
- Specialty Shoe Machinery Company. (See Finch, Maurice S., assignor.)
- Speck, William F., Chicago, assignor of one-half to N. L. Towle, Evanston, Ill. Candy and other food products and making same. No. 1,371,450; Mar. 15; v. 284; p. 432.
- Specker, John E., Ree Heights, S. D. Automatic door. No. 1,390,174; Sept. 6; v. 290; p. 124.
- Speckman, Herman F., Jr., Cincinnati, Ohio. Folding ladder. No. 1,371,125; Mar. 8; v. 284; p. 305.
- Speece, Russell W., Hondo, Tex. Coupling. No. 1,379,133; May 24; v. 286; p. 708.
- Speed, James B., assignor to Western Electric Company, Incorporated, New York, N. Y. Tetrahedral magnetic unit. No. 1,401,564; Dec. 27.



## Alphabetical list of patentees—Continued.

- Speed, John, New York, assignor of one-third to J. McDermott and one-third to W. Roberts, Richmond Hill, N. Y. Wagon-body. No. 1,394,798; Oct. 25.
- Speed-Up Wrench and Manufacturing Company. (See Hand, John G., assignor.)
- Speer, Alexander S. (See Lindley, L. F., and Speer.)
- Speer, Alexander S., Chicago, Ill., assignor to The Roofing Patents Company. Packing-machine. No. 1,365,741; Jan. 18; v. 282; p. 410.
- Speer, Alexander S., Chicago, Ill., assignor, by mesne assignments, to The Roofing Patents Company. Method and apparatus of coating material. No. 1,379,368; May 24; v. 286; p. 753.
- Speer, Alexander S., Chicago, Ill., assignor to The Roofing Patents Company. Making roofing-slabs. No. 1,379,727; May 31; v. 286; p. 894.
- Speer, Horace N., Scarsdale, N. Y. Back-rest. No. 1,380,934; June 7; v. 287; p. 117.
- Speer, Horace N., Scarsdale, N. Y. Back-rest. No. 1,380,935; June 7; v. 287; p. 117.
- Speer, James R., Trappe, Md. High-carbon steel-iron alloy. No. 1,391,215; Sept. 20; v. 290; p. 487.
- Speicher, Paul J., Gaston, Ind. Auto-license holder. No. 1,390,732; Sept. 13; v. 290; p. 327.
- Speight, Alfred, Wimbledon Park, England. Speedometer. No. 1,378,428; May 17; v. 286; p. 500.
- Spelling, Thomas C., New York, N. Y. Combinations of closures and pullers for bottles and other containers. No. 1,377,527; May 10; v. 286; p. 275.
- Spelling, Thomas C., New York, N. Y. Fountain-pen. No. 1,379,057; May 24; v. 286; p. 693.
- Spelling, Thomas C., New York, N. Y. Closure for bottles and other containers. No. 1,384,573; July 12; v. 288; p. 322.
- Spelling, Thomas C., New York, N. Y. Closure for bottles and other containers. No. 1,390,832; Sept. 13; v. 290; p. 347.
- Spelling, Thomas C., New York, N. Y. Closure for bottles and other containers. No. 1,390,833; Sept. 13; v. 290; p. 348.
- Spelman, Frank E., Malden, assignor to W. W. O'Neill, Boston, Mass. Automobile-lamp-dimming device. No. 1,373,209; Mar. 29; v. 284; p. 872.
- Spelts, George A., Bancroft, Nebr. Internal-combustion engine. No. 1,372,916; Mar. 29; v. 284; p. 814.
- Spelts, George A., Jr., assignor to Ulysses Engine Company, Ulysses, Nebr. Internal-combustion engine. No. 1,396,976; Nov. 15.
- Spenard, Napoleon, assignor of one-half to Ernest L. Morrill, Biddeford, Me. Loom-shuttle. (Reissue.) No. 15,087; Apr. 12; v. 285; p. 336.
- Spence, Henry U., Painesville, Ohio. Internal-combustion engine. No. 1,367,674; Feb. 8; v. 283; p. 214.
- Spence, Henry U., Painesville, Ohio. Lubricating system. No. 1,390,393; Sept. 13; v. 290; p. 259.
- Spence, John L., Jr., Brooklyn, N. Y. Clamp. No. 1,394,691; Oct. 25.
- Spence, Wilfred L., Edinburgh, Scotland. Steering mechanism for vehicles. No. 1,393,981; Oct. 18.
- Spencer, Alfred G., and C. W. Hine, London, England. Buffer, draw, and other spring. No. 1,366,507; Jan. 25; v. 282; p. 605.
- Spencer, Arthur B., and F. E. Walker, Hucknall Torkard, assignors of one-third to G. Spencer, Lutterworth, Leicestershire, England. Driving mechanism for sewing-machines and the like. No. 1,382,133; June 21; v. 287; p. 454.
- Spencer, Benjamin F., Los Angeles, Calif. Roller-skate. No. 1,369,849; Mar. 1; v. 284; p. 13.
- Spencer, Charles G. (See Toomey, J. F., and Spencer.)
- Spencer, Charles G. (See Wilbur, R. S., and Spencer.)
- Spencer, Charley J., Osceola, Iowa. Shoe-stitcher attachment. No. 1,382,866; June 28; v. 287; p. 648.
- Spencer, Corby W. (See Spencer, David B. and C. W.)
- Spencer, David B. and C. W., Danville, Ill. Vehicle-wheel and tire. No. 1,401,450; Dec. 27.
- Spencer, Elmer H., Nederland, assignor of one-half to A. C. Block, Port Neches, and one-fourth to Crook, Lord & Lawhon, Beaumont, Tex. Valve. No. 1,383,871; July 5; v. 288; p. 127.
- Spencer, Frank. (See Spencer, A. G. and F., and Hine.)
- Spencer, George. (See Spencer, A. B., and Walker, assignors.)
- Spencer, Harold E., Gravesend, assignor to Hesco Limited, London, England. Lifting-truck. No. 1,389,225; Aug. 30; v. 289; p. 882.
- Spencer, Harry W., Toronto, Ontario, Canada. Outboard motor for boats. No. 1,383,495; July 5; v. 288; p. 49.
- Spencer, Ira H., assignor to The Spencer Turbine Company, West Hartford, Conn. Suction or blowing apparatus. No. 1,377,998; May 10; v. 286; p. 367.
- Spencer, Ira H., West Hartford, assignor to The Spencer Turbine Company, Hartford, Conn. Cleaning apparatus. No. 1,399,165; Dec. 6.
- Spencer, Jonathan R., Long Beach, assignor of one-half to F. W. Smith, Los Angeles, Calif. Can-opener. No. 1,384,642; July 12; v. 288; p. 337.
- Spencer, John A., Los Angeles, Calif. Strip for correcting music. No. 1,393,710; Oct. 11.
- Spencer Kellogg & Sons. (See Schwarcman, Alexander, assignor.)
- Spencer, Kelvin T., Harmondsworth, and L. G. Wills, London, England. Transmission-gear providing automatic compensation for variations in the speed and power transmitted. No. 1,384,357; July 12; v. 288; p. 277.
- Spencer Lens Co. (See Ott, Harvey N., assignor.)
- Spencer Lens Co. (See Ott, H. N., and Bufton, assignors.)
- Spencer, Louis R., Hartford, Conn. Apparatus for gaging engine-pistons. No. 1,375,237; Apr. 19; v. 285; p. 462.
- Spencer, Noal W., Sioux Falls, S. D. Inclinator for aeroplanes. No. 1,399,090; Dec. 6.
- Spencer, Samuel A., Salt Lake City, Utah. Adjustable due extension. No. 1,374,866; Apr. 12; v. 285; p. 329.
- Spencer, Thomas E., Wetaskiwin, Alberta, Canada. Mouse-trap. No. 1,391,589; Sept. 20; v. 290; p. 564.
- Spencer, Thomas, Lakewood, Ohio, assignor to National Carbon Company, Inc. Secondary battery. No. 1,377,227; May 10; v. 286; p. 217.
- Spencer Turbine Company, The. (See Spencer, Ira H., assignor.)
- Spencer, Warren W. C., Brookline, Mass. Windlass-clamp for sucker-rods and tube-hoists. No. 1,397,937; Nov. 22.
- Spengler, Edward E., Chicago, Ill. Ticket-machine. No. 1,391,424; Sept. 20; v. 290; p. 530.
- Spengler, Henry R., Denver, Colo. Pressure-cooker. No. 1,391,863; Sept. 27; v. 290; p. 692.
- Spengler Loomis Mfg. Company. (See Ensign, Emory S., assignor.)
- Sperduti, Antonio, Lead, S. D. Pipe-wrench. No. 1,371,943; Mar. 15; v. 284; p. 527.
- Sperl, Gustav R., and A. W. Mierow, Milwaukee, Wis. Adjustable shelf-support. No. 1,387,950; Aug. 16; v. 289; p. 518.
- Sperling, Albert W., Independence, Oreg. Impressing type of a typewriting-machine directly into the molds for making stereotype. No. 1,366,032; Jan. 18; v. 282; p. 468.
- Sperling, Oscar, assignor to Rotary Scraper Company, Inc., New York, N. Y. Centrifugal chiseling implement. No. 1,370,767; Mar. 8; v. 284; p. 238.
- Sperling, Oscar, assignor to Rotary Scraper Company, Inc., New York, N. Y. Portable tool-working device. No. 1,370,768; Mar. 8; v. 284; p. 238.
- Sperling, Oscar, assignor to Rotary Scraper Company, Inc., New York, N. Y. Percussive implement. No. 1,370,769; Mar. 8; v. 284; p. 238.
- Sperr, Frederick W., Jr., assignor to The Koppers Company, Pittsburgh, Pa. Material for the destruction of noxious animal and vegetable life. No. 1,366,293; Jan. 18; v. 282; p. 519.
- Sperry, Arthur B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,393,326; Oct. 11.
- Sperry, Edward G. (See Sperry, Elmer E. and E. G.)
- Sperry, Elmer A., Brooklyn, N. Y. Driving and governing means for torpedoes. No. 1,378,291; May 17; v. 286; p. 474.
- Sperry, Elmer A., Brooklyn, N. Y. Arc striking and extinguishing apparatus. No. 1,379,881; May 31; v. 286; p. 923.
- Sperry, Elmer A., Brooklyn, N. Y. Observation apparatus for submarines. No. 1,393,844; Oct. 18.
- Sperry, Elmer A., Brooklyn, N. Y. Method and apparatus for separating foreign substances from lead mattes. No. 1,401,743; Dec. 27.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Dead-beat inclinometer. No. 1,366,430; Jan. 25; v. 282; p. 589.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Aeroplane-stabilizer. No. 1,368,226; Feb. 8; v. 283; p. 320.
- Sperry, Elmer A., Brooklyn, assignor to Anaconda Lead Products Company, New York, N. Y. Osmotic diaphragm. No. 1,368,227; Feb. 8; v. 283; p. 320.
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscope. No. 1,393,845; Oct. 18.
- Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Gyroscope Company. Gyroscope roll and pitch record. No. 1,399,032; Dec. 6.
- Sperry, Elmer A. and E. G., assignors to The Sperry Gyroscope Company, Brooklyn, N. Y. Lubricating and cooling system for gyroscopes. No. 1,387,018; Aug. 9; v. 289; p. 282.
- Sperry, Elmer A., and T. H. Phillips, Jr.; said Phillips, Jr., assignor to said Sperry, Brooklyn, N. Y. Driftable gravity-bomb. No. 1,384,868; July 19; v. 288; p. 464.
- Sperry Gyroscope Company, The. (See Crouse, George B., assignor.)
- Sperry Gyroscope Company, The. (See Crouse, G. B., and Mills, assignors.)
- Sperry Gyroscope Company. (See Dubilier, William and P., assignors.)
- Sperry Gyroscope Company. (See Ford, H. C., and Tanner. (Reissue.)
- Sperry Gyroscope Company, The. (See Lea, Robert B., assignor.)
- Sperry Gyroscope Company, The. (See Meitner, Elemer, assignor.)
- Sperry Gyroscope Company. (See Meitner, E., and Maby, assignors.)



*Alphabetical list of patentees—Continued.*

- Sperry Gyroscopic Company, The. (See Scharnagel, Herman J., assignor.)
- Sperry Gyroscopic Company, The. (See Sperry, Elmer A., assignor.)
- Sperry Gyroscopic Company, The. (See Sperry, Elmer A. and E. G., assignors.)
- Sperry Gyroscopic Company, The. (See Sperry, Lawrence B., assignor.)
- Sperry Gyroscope Company, The. (See Tanner, Harry L., assignor.)
- Sperry Gyroscope Company, The. (See Titterington, Morris M., assignor.)
- Sperry, Herbert B., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Lug for traction-wheels. No. 1,395,367; Nov. 1.
- Sperry, John B., assignor to The American Well Works, Aurora, Ill. Pump. No. 1,379,704; May 31; v. 286; p. 890.
- Sperry, Lawrence B., Massapequa, N. Y. Parachute and safety belt. No. 1,369,139; Feb. 22; v. 283; p. 585.
- Sperry, Lawrence B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Transmission-gearing. No. 1,378,490; May 17; v. 286; p. 512.
- Sperry, Lawrence B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Air-current indicator for aeroplanes. No. 1,384,867; July 19; v. 288; p. 464.
- Sperry, Lawrence B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Steering device for aircraft. No. 1,390,653; Sept. 13; v. 290; p. 312.
- Sperry, Charles F., Chicago, Ill. Automobile-radiator. No. 1,401,565; Dec. 27.
- Spicer, Andrew J., Franklin, Ind. Door-hanger. No. 1,364,592; Jan. 4; v. 282; p. 105.
- Spicer Brothers, Limited. (See Wycherly, Sydney R., assignor.)
- Spicer, Russell. (See Enger, Martin A., assignor.)
- Spiegel, George F., Rochester, N. Y. Arch-support. No. 1,399,447; Dec. 6.
- Spier, Heinrich J. (See De Montmollin, G., and Spieler.)
- Spielman, Milton H., Cleveland, Ohio. Electric power mechanism. No. 1,380,162; May 31; v. 286; p. 976.
- Spielman, Milton H., assignor to The Domestic Electric Company, Cleveland, Ohio. Vacuum-cleaner switch-operating mechanism. No. 1,380,163; May 31; v. 286; p. 976.
- Spier, William, Chicago, Ill. Measuring instrument. No. 1,370,233; Mar. 1; v. 284; p. 91.
- Spierer, Léon, Geneva, Switzerland. Bearing. No. 1,396,295; Nov. 8.
- Spiers, Charles W., Battersea, London, assignor to Morgan Crucible Company, Limited, London, England. Electrically-heated crucible, melting-pot, and the like. No. 1,366,135; Jan. 18; v. 282; p. 487.
- Spies, Margaret S., *et al.* (See Best, William N., assignor.)
- Spieß, Georg, Leipzig-Reudnitz, Germany. Paper-cutting device. No. 1,400,777; Dec. 20.
- Spieß, Georg, Leipzig, Germany. Sheet-feeding device. No. 1,400,778; Dec. 20.
- Spieß, Jules G. (See Kuhn, F., Thomas, and Spiess.)
- Spieß, Jules G. (See Kuhn, F., Hand, and Spiess.)
- Spieß, Paul, Zurich, Switzerland. Multistage axial-flow steam or gas turbine. No. 1,389,910; Sept. 6; v. 290; p. 71.
- Spieß, Paul, Zurich, Switzerland. Construction of turbines. No. 1,390,733; Sept. 13; v. 290; p. 327.
- Spieß, Paul, Zurich, Switzerland. Rotor for multistage high-speed engines. No. 1,399,816; Dec. 13.
- Spiker, Harry E., assignor of one-half to J. W. Chapman and one-half to W. H. Brown, Chicago, Ill. Nut-blanching machine. No. 1,387,562; Aug. 16; v. 289; p. 441.
- Spillane, Frank J., Brooklyn, N. Y. Arch for fireboxes. No. 1,396,647; Oct. 11.
- Spillman, William J., Washington, D. C. Perpetual calendar. No. 1,374,532; Apr. 12; v. 285; p. 265.
- Spinasse, Arthur E., Mount Vernon, Ohio. Glass-tank. No. 1,375,941; Apr. 26; v. 285; p. 629.
- Spinasse, Arthur E., Mount Vernon, Ohio. Bait for glass-drawing machines and in the process of drawing glass. (Reissue.) No. 15,143; July 5; v. 288; p. 162.
- Spinasse, Arthur E., Mount Vernon, Ohio. Apparatus for drawing glass cylinders. No. 1,386,441; Aug. 2; v. 289; p. 93.
- Spinello, Mathew, Kansas City, Mo. Display device. No. 1,389,078; Aug. 30; v. 289; p. 853.
- Spinello, Mathew, Kansas City, Mo. Elevator-hatchway-door-operating device. No. 1,393,918; Oct. 18.
- Spink, C. H., and V. D. Garns, Davenport, Iowa. Automatic restaurant. No. 1,388,975; Aug. 30; v. 289; p. 832.
- Spinks, Virgil H., Ruston, La. Counter and bin. No. 1,398,161; Nov. 22.
- Spinner, Philip V. (See Goldstein, Charles, assignor.)
- Spire, Sheldon S., assignor to Syracuse Chilled Plow Company, Syracuse, N. Y. Sulky-plow. No. 1,387,810; Aug. 16; v. 289; p. 491.
- Spiro, Walter J., White Plains, N. Y., assignor to Hudson Motor Specialties Company, Philadelphia, Pa. Spring-brush for timers. No. 1,397,150; Nov. 15.
- Spirewka, John S., Jr., assignor of one-third to D. C. O'Connell and one-third to J. E. O'Connell, Milwaukee, Wis. Burglar-alarm. No. 1,379,058; May 24; v. 286; p. 693.
- Spiro, Charles, New York, N. Y. Margin-gage device. No. 1,398,282; Nov. 29.
- Spiro, Charles, assignor to Federal Adding Machine Corporation, New York, N. Y. Interchangeable carriage. No. 1,383,578; July 5; v. 288; p. 66.
- Spiro, Charles, assignor to Federal Adding Machine Corporation, New York, N. Y. Paper-feeding mechanism. No. 1,383,775; July 5; v. 288; p. 108.
- Spiro, Charles, assignor to Federal Adding Machine Corporation, New York, N. Y. Ribbon-shifting mechanism. No. 1,383,776; July 5; v. 288; p. 108.
- Spiro, Charles, assignor to Federal Adding Machine Corporation, New York, N. Y. Escapement mechanism. No. 1,388,615; Aug. 23; v. 289; p. 706.
- Spiro, Charles, assignor to Federal Adding Machine Corporation, New York, N. Y. Case-shifting mechanism. No. 1,388,616; Aug. 23; v. 289; p. 706.
- Spiro, Charles, assignor to Federal Adding Machine Corporation, New York, N. Y. Typewriter. No. 1,389,911; Sept. 6; v. 290; p. 71.
- Spiro, Charles, assignor to Gourland Typewriter Corporation, New York, N. Y. Typebar-action. No. 1,391,020; Sept. 20; v. 290; p. 448.
- Spiroicide Corporation. (See Habeeb, Wadi M., assignor.)
- Spitzer, Jacob, New York, N. Y., assignor to Universal Mercerizing & Dyeing Co., Inc. Mercerizing-machine. No. 1,374,118; Apr. 5; v. 285; p. 143.
- Spitzer, Walter D. (See Wippert, W. O., and Spitzer.)
- Spitzglass, Jacob M., assignor to Republic Flow Meters Company, Chicago, Ill. Flow-meter. No. 1,390,394; Sept. 13; v. 290; p. 259.
- Splitdorf Electrical Company. (See Borger, Henry E., assignor.)
- Splitdorf Electrical Company. (See Cotterman, F. W., assignor.)
- Splitdorf Electrical Company. (See Dean, William W., assignor.)
- Splitdorf Electrical Company. (See Erickson, Albert, assignor.)
- Splitdorf Electrical Company. (See Grunow, William, assignor.)
- Splitdorf Electrical Company. (See Leibing, Joseph K., assignor.)
- Splitdorf Electrical Company. (See Libby, Albion, D. T., assignor.)
- Splitdorf Electrical Company. (See Mason, Charles T., assignor.)
- Splitdorf Electrical Company. (See Mason, C. T., and Hart, assignors.)
- Splitdorf Electrical Company. (See McKeown, Samuel C., assignor.)
- Splitdorf Electrical Company. (See Sullivan, Maurice P., assignor.)
- Splitdorf Electrical Company. (See Tiedemann, Henry, assignor.)
- Splitdorf Electrical Company. (See Tomlinson, Edward J., assignor.)
- Splitdorf Electrical Company. (See Van Deventer, Harry R., assignor.)
- Splittsdoesser, Albert H., Kulm, N. D. Coupling and releasing device. No. 1,384,001; July 5; v. 288; p. 154.
- Spoelstra, Peter H., Pella, Iowa. Automobile chain and lock. No. 1,386,442; Aug. 2; v. 289; p. 93.
- Spoehr, Gregory J., East Orange, N. J., assignor to The Motor-Compressor Company. Starting mechanism for internal-combustion engines. No. 1,376,838; May 3; v. 286; p. 87.
- Spoehr, Gregory J., East Orange, N. J. Dispenser for compressed air. No. 1,395,368; Nov. 1.
- Spokane Concrete Flower Pot Machine Co. (See Bewley, Claude G., assignor.)
- Spokane Manufacturing Company. (See Lewis, Fred G., assignor.)
- Spokane Mail Equipment Company. (See Smith, Herbert E., assignor.)
- Spong, George H., Portsmouth, Va. Wrench. No. 1,379,482; May 24; v. 286; p. 773.
- Sponberg, Axel E., Brooklyn, N. Y. Mechanical toy. No. 1,390,395; Sept. 13; v. 290; p. 259.
- Sponhauer, Henry C., Galion, Ohio. Burial-vault closure. No. 1,384,279; July 12; v. 288; p. 261.
- Sponsel, Charles W., Wethersfield, Conn. Elevating-truck. No. 1,383,669; July 5; v. 288; p. 85.
- Sponsel, Charles W., Wethersfield, Conn., assignor to The Fairbanks Company, New York, N. Y. Elevating-truck. No. 1,367,926; Feb. 8; v. 283; p. 262.
- Sponsel, Charles W., Hartford, Conn., assignor to The Fairbanks Company, New York, N. Y. Wheeled vehicle. No. 1,380,119; May 31; v. 286; p. 968.
- Spooner, Harry M. (See Manchester, A. P., and Spooner.)
- Spooner, Thomas, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Compression-rheostat. No. 1,398,605; Nov. 29.
- Sporer, Paul, Chicago, Ill. Soap-solution device. No. 1,372,102; Mar. 22; v. 284; p. 614.
- Sporer, Paul, Chicago, Ill. Fruit and vegetable parer. No. 1,399,901; Dec. 13.
- Sporer, Paul, Chicago, Ill. Fruit and vegetable parer. No. 1,399,902; Dec. 13.
- Spotswood, Frank D. (See Hennegan, Paul M., assignor.)
- Spracklen, Paul H., Oakland, Calif. Compensating hinge-joint for artificial limbs. No. 1,366,136; Jan. 18; v. 282; p. 488.



## Alphabetical list of patentees—Continued.

- Sprado, Carl G., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Method of and apparatus for manipulating internal-combustion engines. No. 1,399,900; Dec. 13.
- Sprado, Carl G., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Internal-combustion engine. No. 1,400,328; Dec. 13.
- Spragins, Mary C., Jersey City, N. J. Bag-support. No. 1,392,716; Oct. 4.
- Sprague Canning Machinery Company. (See Colbert, Clarence F., assignor.)
- Sprague Canning Machinery Company. (See Babcock, Leland A., assignor.)
- Sprague Canning Machinery Co. (See Lowe, Harry W., assignor.)
- Sprague Canning Machine Company. (See Steere, Clarence E., assignor.)
- Sprague, Douglas, *et al.* (See Townsend, Frederick E., assignor.)
- Sprague, Douglas, Mount Vernon, N. Y. Reel. No. 1,396,236; Nov. 8.
- Sprague, Edward, Jr., Oak Park, Ill. Garter. No. 1,366,708; Jan. 25; v. 282; p. 645.
- Sprague, Frank D., and P. W. Allison, New York, N. Y. Projectile. No. 1,382,750; June 28; v. 287; p. 626.
- Sprague, Frederick P., *et al.* (See Davenport, Hudson A., assignor.)
- Sprague, George E., Cambria, Ill. Coupling. No. 1,364,213; Jan. 4; v. 282; p. 32.
- Sprague, Horace M., Denver, Colo. Quick-adjustment wrench. No. 1,394,369; Oct. 18.
- Sprague, James A. (See Spurlock, T. M., and Sprague.)
- Sprague, James H., Rio Blanco, Colo. Fur-stretcher. No. 1,371,650; Mar. 15; v. 284; p. 471.
- Sprague, James H., Rio Blanco, Colo. Collapsible box. No. 1,371,651; Mar. 15; v. 284; p. 472.
- Sprague, Leo A., Henderson, N. Y. Tractor attachment for motor-vehicles. No. 1,384,164; July 12; v. 288; p. 237.
- Sprague, Newton C., San Diego, Calif. Fish scaling and washing machine. No. 1,383,162; June 28; v. 287; p. 704.
- Sprague, Sidney, assignor of one-half to W. V. Scott, Ossining, N. Y. Toothbrush. No. 1,392,285; Sept. 27; v. 290; p. 778.
- Spratt, George A., Coatesville, Pa. Aeroplane. No. 1,394,585; Oct. 25.
- Spray Engineering Company. (See Day, Herbert W., assignor.)
- Spray Engineering Company. (See Parker, L. H., and Landon, assignors.)
- Spray Engineering Company. (See Parker, Lee H., assignor.)
- Spreadbury, Earl R., Saugus, Mass. Wood-carving device. No. 1,389,462; Aug. 30; v. 289; p. 929.
- Sprecher, Peter W., Milwaukee, Wis. Electric-lighting fixture. No. 1,385,192; July 19; v. 288; p. 532.
- Spreckles, Claus, San Diego, Calif. Tire-wrapping machine. No. 1,369,715; Feb. 22; v. 283; p. 697.
- Spreckles, John D. (See Laborda, Richard, assignor.)
- Spreitzer, Larence, Hammond, Ind., assignor to Edward Valve and Manufacturing Company, Chicago, Ill. Die-head. No. 1,376,047; Apr. 26; v. 285; p. 649.
- Sprick, Charles A. (See Brown, Newman T., assignor.)
- Springer, Aaron M., Portland, Oreg., assignor to Oregon Woodenware Mfg. Co. Ironing-board. No. 1,369,942; Mar. 1; v. 284; p. 36.
- Springer, Franklin W., Minneapolis, Minn. Shock-absorber for vehicles. No. 1,366,033; Jan. 18; v. 282; p. 468.
- Springer, Franklin W., Minneapolis, Minn. Electric lighting and starting system for motor-vehicles. No. 1,370,162; Mar. 1; v. 284; p. 77.
- Springer, Franklin W., Minneapolis, Minn. Shock-absorber for vehicles. No. 1,387,081; Aug. 9; v. 289; p. 295.
- Springer, Franklin W., Minneapolis, Minn. Spark-plug for internal-combustion engines. No. 1,399,166; Dec. 6.
- Springer, John. (See Dickinson, F. S., and Springer.)
- Springer, John E., Palo Alto, Calif. Folding table. No. 1,369,943; Mar. 1; v. 284; p. 36.
- Springer, John E., Palo Alto, Calif. Collapsible furniture. No. 1,369,944; Mar. 1; v. 284; p. 36.
- Springer, Thomas H., Waterloo, Iowa. Cupping device. No. 1,364,148; Jan. 4; v. 282; p. 19.
- Springer, William J., Detroit, Mich. Pump. No. 1,396,296; Nov. 8.
- Springer, William N., Peoria, assignor to S. K. & S. Co., El Paso, Ill. Motor agricultural implement. No. 1,371,330; Mar. 15; v. 284; p. 408.
- Springer, William N., South Bend, Ind. Cultivator mechanism. No. 1,384,411; July 12; v. 288; p. 288.
- Springfield Metallic Casket Company, The. (See Watts, Thomas A., assignor.)
- Springston, Carl W., Wellington, Kans. Liquid-fuel burner. No. 1,400,504; Dec. 13.
- Sprinkle, Lake H., Brooklyn, N. Y. Bridge-tooth. No. 1,384,869; July 19; v. 288; p. 464.
- Sprinkle, Lake H., Brooklyn, and M. Greenman, New York, N. Y. Feed-bag for horses. No. 1,391,021; Sept. 20; v. 290; p. 448.
- Sproësig, Oscar. (See Franks, G., and Sproësig.)
- Spurgin, Robert, Chicago, Ill. Coin-bag. No. 1,382,394; June 21; v. 287; p. 504.
- Spurlock, Theodore M., and J. A. Sprague, Sitka, Ark. Railway-gate. No. 1,383,437; July 5; v. 288; p. 37.
- Spyer, Arthur, London, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler-furnace. No. 1,390,225; Sept. 6; v. 290; p. 133.
- Squarcialupi, Giovanni, *et al.* (See Barchiesi, Aurelio, assignor.)
- Square D Company. (See Ball, Albert P., assignor.)
- Square D Company. (See Freeman, H. S., and Zenker, assignors.)
- Square D Company. (See Oaks, Archie, assignor.)
- Square D Company. (See Woolfolk, Arthur R., Jr., assignor.)
- Square D Company. (See Zenker, Fredrick, assignor.)
- Squibb, Robert L., *et al.* (See Sawtelle, Edmund M., assignor.)
- Squier, George A., Cleveland, Ohio. Machine for truing lens-grinding disks. No. 1,384,643; July 12; v. 288; p. 337.
- Squier, William E., Burkburnett, Tex. Automobile-signal. No. 1,397,463; Nov. 15.
- Squire, Charles, Deans, N. J. Snow-removal apparatus. No. 1,386,137; Aug. 2; v. 289; p. 35.
- Squire, Frederick J., Havelock, Ontario, Canada. Tobacco-display case. No. 1,401,825; Dec. 27.
- Squire, Gayle L., Hastings, Fla. Sprinkling-pot. No. 1,366,967; Feb. 1; v. 283; p. 17.
- Squire, Raymond S. (See Jackson, C. C., and Squire.)
- Squires, Chester J., Galesburg, Ill. Coffin-handle. No. 1,367,330; Feb. 1; v. 283; p. 89.
- Strill, Edward A., Chicago, Ill. Wire-bound box. No. 1,398,606; Nov. 29.
- Srofe, Jesse, Cincinnati, Ohio. Box-blank. No. 1,388,006; Aug. 16; v. 289; p. 529.
- Sromovsky, George, Manistique, Mich. Fruit-gatherer. No. 1,397,464; Nov. 15.
- St. Louis Brass Manufacturing Company. (See Guth, Edwin F., assignor.)
- St. Louis Briquette Machine Company. (See Komarek, Gustav, assignor.)
- Staab, Henry A., Milwaukee, Wis. Clip. No. 1,397,151; Nov. 15.
- Stables, Arthur, Los Angeles, Calif. Cotton-lint collector. No. 1,396,673; Nov. 8.
- Stables, Linton G., Los Angeles, Calif. Automatic safety-guard. No. 1,400,835; Dec. 20.
- Stacey, Alfred E., Jr., Chicago, Ill., assignor to Carrier Engineering Corporation, New York, N. Y. Thermoresponsive instrument. No. 1,377,735; May 10; v. 286; p. 315.
- Stacey, Cyril F. (See Molloy, Edward, assignor.)
- Stacey, Frank, Birmingham, England. Grinding-machine. No. 1,400,466; Dec. 13.
- Stacey, Grover C., Atlanta, Ga. Cotton-cleaner. No. 1,369,716; Feb. 22; v. 283; p. 697.
- Stach, Howard J. (See Weatherly, S. M., and Stach.)
- Stack, Elmer S. (See Tibbetts, Frank L., assignor.)
- Stack Heater Company. (See Smith, Chetwood, assignor.)
- Stack, Stanley W., Chicago, Ill. Curtain-pole support. No. 1,380,848; June 7; v. 287; p. 100.
- Stackhouse, George, assignor to Pacific Spring Bed Co., Berkeley, Calif. Arm-form for furniture. No. 1,384,165; July 12; v. 288; p. 237.
- Stackhouse, Milroy G., Tulsa, Okla. Rail-joint. No. 1,388,779; Aug. 23; v. 289; p. 738.
- Stacy, Grover C., Dallas, Tex. Cotton-cleaner and boll-breaker. No. 1,397,257; Nov. 15.
- Stacy, John H., Clintonville, Wis. Cover for ensilage. No. 1,380,849; June 7; v. 287; p. 101.
- Stacy, Oliver W., Ste. Genevieve, assignor of one-half to D. P. Lane, St. Louis, Mo. Fascine mat. No. 1,371,451; Mar. 15; v. 284; p. 433.
- Stacy, William O., *et al.* (See Heibel, Frank R., assignor.)
- Stadelman, Joseph G., Chicago, Ill. Wooden building. No. 1,372,206; Mar. 22; v. 284; p. 634.
- Stader, John B. (See Bates, Frank C., assignor.)
- Stader, William, Philadelphia, Pa. Suction lifting implement. No. 1,400,573; Dec. 20.
- Stadtler, Mathias, Chicago, Ill. Spring-mounting. No. 1,364,329; Jan. 4; v. 282; p. 55.
- Stachle, Joseph A. (See Hines, R. E., Dellert, and Stachle.)
- Staffa, Joseph, assignor to J. V. Meyering Trunk Company, Chicago, Ill. Trunk-locking mechanism. No. 1,364,649; Jan. 4; v. 282; p. 116.
- Stafford, Alfred E., assignor to Draper Corporation, Hopedale, Mass. Filling-end-parting mechanism for looms. No. 1,372,840; Mar. 29; v. 284; p. 798.
- Stafford, Benjamin E. D. (See Dodds, E. I., and Stafford.)
- Stafford, Benjamin E. D. (See Flannery, J. R., Stafford, and Dodds.)
- Stafford, Benjamin E. D., Pittsburgh, Pa. Container for collapsible tubes. No. 1,382,184; June 21; v. 287; p. 454.
- Stafford, Benjamin E. D., Pittsburgh, Pa. Collapsible tube and container for the same. No. 1,382,135; June 21; v. 287; p. 454.
- Stafford, Benjamin E. D., Pittsburgh, Pa. Combined collapsible tube and container therefor. No. 1,382,136; June 21; v. 287; p. 454.
- Stafford, Benjamin E. D., Pittsburgh, Pa. Collapsible tube and container for the same. No. 1,382,137; June 21; v. 287; p. 455.



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- Stafford, Benjamin E. D., Pittsburgh, Pa. Dispensing tube or box. No. 1,382,138; June 21; v. 287; p. 455.
- Stafford, Benjamin E. D., Pittsburgh, Pa. Collapsible tube and container for the same. No. 1,382,139; June 21; v. 287; p. 455.
- Stafford, Benjamin E. D., Pittsburgh, Pa. Collapsible dispensing tube and container. No. 1,382,140; June 21; v. 287; p. 455.
- Stafford, Benjamin E. D., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,364,149; Jan. 4; v. 282; p. 20.
- Stafford, Benjamin E. D., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,364,150; Jan. 4; v. 282; p. 20.
- Stafford, Benjamin E. D., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,392,235; Sept. 27; v. 290; p. 767.
- Stafford, Benjamin E. D., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,392,236; Sept. 27; v. 290; p. 768.
- Stafford, Benjamin E. D., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,399,033; Dec. 6.
- Stafford Company, The. (See Cowan, Arthur S., assignor.)
- Stafford Company, The. (See Jackson, Simeon S., assignor.)
- Stafford, Francis A., assignor to The Hunter Arms Company, Inc., Fulton, N. Y. Firearm. No. 1,387,207; Aug. 9; v. 289; p. 317.
- Stafford, Frederick A., Chariton, Iowa. Silo structure. No. 1,381,894; June 14; v. 287; p. 350.
- Stafford, Frederick S., assignor to H. G. Saal, Chicago, Ill. Window. No. 1,378,292; May 17; v. 286; p. 474.
- Stafford, Frederick S., assignor to H. G. Saal, Chicago, Ill. Wheel. No. 1,392,367; Oct. 4.
- Stafford, Frederick S., assignor to H. G. Saal, Chicago, Ill. Wheel. No. 1,395,456; Nov. 1.
- Stafford, Frederick S., assignor to H. G. Saal, Chicago, Ill. Wheel. No. 1,399,410; Dec. 6.
- Stafford, Hal R., deceased, North Plainfield, N. J.; M. M. Stafford, administratrix. Invisible cab-turret. No. 1,392,457; Oct. 4.
- Stafford, Leo K., Detroit, Mich. Journal-box. No. 1,370,377; Mar. 1; v. 284; p. 118.
- Stafford, Leo K., Detroit, Mich., assignor to The Stafford Roller-Bearing Car Truck Corporation, Carlstadt, N. J. Roller-bearing for railway-trucks. No. 1,374,775; Apr. 12; v. 285; p. 311.
- Stafford, Lewis F., Chicago, Ill. Bracket for mounting automobile-bumpers. No. 1,368,464; Feb. 15; v. 283; p. 415.
- Stafford, Mary M., administratrix. (See Stafford, Hal R.)
- Stafford, Orin F., Eugene, Oreg. Destructive distillation. No. 1,380,262; May 31; v. 286; p. 994.
- Stafford Roller-Bearing Car Truck Corporation, The. (See Stafford, Leo K., assignor.)
- Stafford, Sidney E., Ashdown, Ark. Automatic mail-box signal. No. 1,380,164; May 31; v. 286; p. 976.
- Stafford, Wilfred, assignor of one-half to W. Davies, London, England. Desk, table, and like office furniture. No. 1,385,233; July 19; v. 288; p. 539.
- Stafiej, Roman, Detroit, Mich. Repairing device for bicycle-tires. No. 1,385,591; July 26; v. 288; p. 688.
- Stage, Harold I., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Unitary regulating and controlling means for drill-feed mechanism. No. 1,378,491; May 17; v. 286; p. 512.
- Stage, Harold I., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Motor-rotation impact-tool. No. 1,390,834; Sept. 13; v. 290; p. 348.
- Stageman, Harry C., Council Bluffs, Iowa. Phonograph sound-regulator. No. 1,389,605; Sept. 6; v. 290; p. 9.
- Stage, Robert H. F., Madisonville, Ohio. Pie crimper and cutter. No. 1,400,383; Dec. 13.
- Stagers, William F., Mannington, W. Va. Antiskid device for auto-tires. No. 1,384,358; July 12; v. 288; p. 277.
- Stagl, Joseph E., Brooklyn, N. Y. Clothes-hanger. No. 1,400,633; Dec. 20.
- Stahl, Charles E., Meriden, Conn., assignor to The Connecticut Telephone & Electric Company, Inc. Electric switch. No. 1,372,207; Mar. 22; v. 284; p. 634.
- Stahl, Charles E., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Combined driving and steering gear. No. 1,388,669; Aug. 23; v. 289; p. 716.
- Stahl, Frank E., Tonawanda, N. Y., assignor to The Columbus McKinnon Chain Company, Columbus, Ohio. Electric-welding method, machine, and welded chain. No. 1,370,926; Mar. 8; v. 284; p. 267.
- Stahl, George W., Chicago, Ill. Paint-package and making it. No. 1,398,403; Nov. 29.
- Stahl, Karl F., Pittsburgh, Pa., assignor to General Chemical Co., New York, N. Y. Condenser or absorber for hydrofluosilicic-acid gas. No. 1,367,993; Feb. 8; v. 283; p. 275.
- Stahley, James F. (See Borghes, J., and Stahley.)
- Stahr, Wilbert H., assignor of one-half to A. D. Smith, Elgin, Ill. Hair-cutting device. No. 1,378,911; May 24; v. 286; p. 660.
- Staley, Charles E., and E. H. Blazer, Portsmouth, Ohio. Wheel. No. 1,393,711; Oct. 11.
- Staley, Charles E., E. H. Blazer, and H. W. Monson, Portsmouth, Ohio. Transmission mechanism. No. 1,394,125; Oct. 18.
- Staines, Guy G., Albion, N. Y. Barrel-hoop-repair device. No. 1,381,760; June 14; v. 287; p. 325.
- Stairs, James H., assignor to Home-Crest Mills Corporation, Philadelphia, Pa. Driving mechanism for looms. No. 1,375,942; Apr. 26; v. 285; p. 629.
- Stalder, Edward J., Chicago, Ill. Bed construction. No. 1,378,293; May 17; v. 286; p. 475.
- Staley, Harry B. (See Bennett, Arthur E., assignor.)
- Staley, Joseph H., Columbus, Ind. Gear-puller. No. 1,381,142; June 14; v. 287; p. 240.
- Staley, Raleigh H., Springfield, Ill. Mouth-mirror. No. 1,363,151; Jan. 4; v. 282; p. 20.
- Staley, Samuel S., and M. W. Collet, Philadelphia, Pa. Air-preheater for explosive-engines. No. 1,387,328; Aug. 9; v. 289; p. 343.
- Stålhané, Otto, and O. O. Kring, Djursholm, Sweden. Contact-pin for connecting-plugs and the manufacture thereof. No. 1,376,735; May 3; v. 286; p. 67.
- Stalker, Harry O. (See Edwards, W. E., and Stalker.)
- Stallings, L. G., *et al.* (See Roach, William H., assignor.)
- Stallkamp, Albert L. (See Koch, G. T., and Stallkamp.)
- Stallman, Granville H., assignor to The Mechanical Manufacturing Company, Chicago, Ill. Hog-scraping machine. No. 1,383,347; July 5; v. 288; p. 18.
- Stallsmith, Joseph F., assignor of one-half to H. P. Utz, Kansas City, Mo. Carpet-cleaning machine. No. 1,396,977; Nov. 15.
- Stalter, Hiram F. (See Cloud, J. E., and Stalter.)
- Stambaugh, Ray E., Sheridan, Wyo. Table. No. 1,377,102; May 3; v. 286; p. 138.
- Stamen, Victorene L., *et al.* (See Light, Claus H., assignor.)
- Stammer, Harrmann, Bartlesville, Okla. Clothespin. No. 1,391,590; Sept. 20; v. 290; p. 564.
- Stamps, Frederick A., Niagara Falls, assignor to Oldbury Electro-Chemical Company, Harrison, N. Y. Process and apparatus for mixing gases. No. 1,378,429; May 17; v. 286; p. 500.
- Stanaland, John L., Moultrie, Ga. Cane-mill. No. 1,373,680; Apr. 5; v. 285; p. 58.
- Stanbon, Charles P., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Welt-laying machine. No. 1,370,613; Mar. 8; v. 284; p. 208.
- Stanbon, Charles P., Lynn, Mass. Steering-post-positioning means. No. 1,383,348; July 5; v. 288; p. 18.
- Stanbrough, Duncan G., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,391,864; Sept. 27; v. 290; p. 692.
- Stanbrough, Margaret E. N. (See Stanbrough, Rufus G., assignor.)
- Stanbrough, Rufus G., assignor to Margaret E. N. Stanbrough, New York, N. Y. Handpiece for dental engines. No. 1,388,617; Aug. 23; v. 289; p. 707.
- Stancliff, Edwin O., Bakersfield, Calif. Self-feeder for hay-presses and threshers. No. 1,400,008; Dec. 13.
- Standard Battery Manufacturing Company. (See Hawkins, Alda F., assignor.)
- Standard Button Company. (See Anderson, Edward L., assignor.)
- Standard Car Truck Company. (See Barber, Franklin L., assignor.)
- Standard Chemical Company. (See Foote, Hugh S., assignor.)
- Standard Coin Counter. (See Donnellan, Edward P., assignor.)
- Standard Cotton Company of America. (See Levering, James F., assignor.)
- Standard Crayon Manufacturing Company. (See Lundin, Emil O., assignor.)
- Standard Electric Manufacturing Co. (See Parker, Thomas L., assignor.)
- Standard Engineering Company. (See Newcomb, Edward C., assignor.)
- Standard Engineering Company. (See Scott, Lewis L., assignor.)
- Standard Envelope Sealer Manufacturing Company. (See Storck, Frederick W., assignor.)
- Standard Fender Co. (See Jensen, C. C., and Irwin, assignors.)
- Standard Food Products Company. (See MacLachlan, John C., assignor.)
- Standard Furniture Company. (See Rhodes, Ernest, assignor.)
- Standard Machine Company. (See Houseman, Harold E., assignor.)
- Standard Manufacturing Company, The. (See Ellis, William F., assignor.)
- Standard Metal Mfg. Co. (See Lawrence, William A., assignor.)
- Standard Oil Company. (See Beck, Jennings B., assignor.)
- Standard Oil Company. (See Bransky, Oscar E., assignor.)
- Standard Oil Company. (See Buc, Hyym E., assignor.)
- Standard Oil Company. (See Burgess, Louis, assignor.)
- Standard Oil Company. (See Cobb, Ernest B., assignor.)
- Standard Oil Company. (See Clark, Edgar M., assignor.)
- Standard Oil Company. (See Flynn, Edward J., assignor.)
- Standard Oil Company. (See Lewis, F. B., and Cooke, assignors.)
- Standard Oil Company. (See McKenzie-Martyn, E. C., and Howard, assignors.)



*Alphabetical list of patentees—Continued.*

- Standard Oil Company. (See Robinson, Clarence I., assignor.)
- Standard Oil Company. (See Rogers, F. M., and McNeil, assignors.)
- Standard Oil Company. (See Rudigier, Edward A., assignor.)
- Standard Oil Company of California. (See Gray, Edwin D., assignor.)
- Standard Oil Company, (of Indiana.) (See Glair, Harry F., assignor.)
- Standard Oil Company of New York. (See Chamberlain, Horace P., assignor.)
- Standard Oil Company of New York. (See Folant, William S., assignor.)
- Standard Oil Company of New York. (See French, Charles L., assignor.)
- Standard Oil Company (of New Jersey). (See Cobb, Ernest B., assignor.)
- Standard Ordnance Corporation. (See Bellamore, D. H., and Bonk, assignors.)
- Standard Paint Company, The. (See Abraham, Herbert, assignor.)
- Standard Parts Company, The. (See Baker, Walter C., assignor.)
- Standard Parts Company, The. (See Dahlquist, Charles S., assignor.)
- Standard Parts Company, The. (See Jobski, Otto H., assignor.)
- Standard Parts Company, The. (See Keys, Walter C., assignor.)
- Standard Parts Company, The. (See Manternach, John C., assignor.)
- Standard Parts Company, The. (See Theberath, Joseph C., assignor.)
- Standard Parts Company, The. (See Utz, J. G., and Zimmerman, assignors.)
- Standard Parts Company, The. (See Zimmerman, Thomas, assignor.)
- Standard Piston Ring Co. (See E. J. Rogers, assignor.)
- Standard Pressed Steel Company. (See Gade, Harald F., assignor.)
- Standard Register Company. (See Metzner, Albert W., assignor.)
- Standard Register Company, The. (See Sherman, J. Q., and Buschmeyer, assignors.)
- Standard Rubber Company. (See Allyn, Harley H., assignor.)
- Standard Sanitary Manufacturing Company. (See Kalbfleisch, George C., assignor.)
- Standard Scale & Supply Company. (See McGarvey, Edward, assignor.)
- Standard Scientific Company. (See Schreiner, Arthur W., assignor.)
- Standard Sewing Machine Company, The. (See Nelson, George W., assignor.)
- Standard Steel Car Company. (See Anderson, Harry T., assignor.)
- Standard Steel Car Company. (See Christianson, Andrew, assignor.)
- Standard Steel Propeller Company. (See Dicks, Thomas A., assignor.)
- Standard Steel Spring Company. (See d'Orville, Theodore L. R., assignor.)
- Standard Steel Works Company. (See Betz, Samuel G., assignor.)
- Standard Textile Products Company, The. (See Thompson, Herbert S., assignor.)
- Standard Tire Protector Company, The. (See Austin, Albert L., assignor.)
- Standard Tobacco Stemmer Company. (See Slaughter, Joseph W., assignor.)
- Standard Underground Cable Company. (See Davis, C. W., and Brown, assignors.)
- Standen, Robert. (See Mouniford, F., Stauden.)
- Stander Chemical Engineering Company. (See Simon, L. J., and Hinchley, assignors.)
- Standing, James T., St. Louis, Mo. Advertising-puzzle. No. 1,387,951; Aug. 16; v. 289; p. 518.
- Standish, Charles F., Greene, N. Y. Fruit-jar opener. No. 1,374,612; Apr. 12; v. 285; p. 280.
- Standish, Edward K., Stoughton, Mass. Tractor. No. 1,401,289; Dec. 27.
- Standish, John F., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heeling-machine. No. 1,365,802; Jan. 18; v. 282; p. 423.
- Standish, John F., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heeling-machine. No. 1,384,870; July 19; v. 288; p. 464.
- Standley, Cleo R., Boone, Iowa. Luggage-carrier for automobiles. No. 1,395,457; Nov. 1.
- Standley, Meredith G. (See White, Ernest W., assignor.)
- Stanfa, Joseph L., Erie, Pa. Float-operated circuit-closer. No. 1,391,347; Sept. 20; v. 290; p. 515.
- Stanfa, Joseph L., Erie, Pa. Lamp-bracket for automobile direction indicators. No. 1,391,802; Sept. 27; v. 290; p. 679.
- Stanfield, George. (See Fairholme, F. C., Hatfield, and Stanfield.)
- Stanfield, Joseph R. M., Cardiff, Wales. Magneto-starter. No. 1,386,081; Aug. 2; v. 289; p. 24.
- Stanford, Arthur L., Chicago, Ill. Forming locking screw-threads. No. 1,367,168; Feb. 1; v. 283; p. 57.
- Stanford, Maurice L., San Francisco, and M. Macaulay, Sausalito, Calif. Hook-rack. No. 1,380,747; June 7; v. 287; p. 80.
- Stanforth, Richard, and L. A. Angle, assignors to Art In Buttons, Inc., Rochester, N. Y. Button-blank gage. No. 1,393,846; Oct. 18.
- Stangland, Oliver, St. Louis, Mo. Mounting for anti-friction-bearings. No. 1,377,637; May 10; v. 286; p. 296.
- Stanley, Albert, Indianapolis, Ind. Tank-filler and contents-indicator. No. 1,379,226; May 24; v. 286; p. 725.
- Stanley, Arthur E., Elkhart, Ind. Pump. No. 1,388,780; Aug. 23; v. 289; p. 738.
- Stanley, Buell, Washington, D. C. Signal device for motor-vehicles. No. 1,391,803; Sept. 27; v. 290; p. 679.
- Stanley, Conquest J. (See Wray, Charles, assignor.)
- Stanley, Edward C. (See Cordin, E. A., and Stanley.)
- Stanley, Edward E., San Diego, Calif. Raisin-separating machine. No. 1,369,986; Mar. 1; v. 284; p. 44.
- Stanley, Edward S., and C. B. Gay, Whitman, assignors of one-fifth to C. S. Smith, Lincoln, Mass.; one-fifth to F. H. White, Charlotte, N. C., and one-fifth to E. Clark, Abington, Mass. Cock and valve. No. 1,378,492; May 17; v. 286; p. 512.
- Stanley, Everett N., Topeka, Kans. Automatic train-stop. No. 1,364,957; Jan. 11; v. 282; p. 220.
- Stanley, Frank, Newcastle, Ind. Automobile-lock. No. 1,385,479; July 26; v. 288; p. 666.
- Stanley, George C. (See Saunders, C. L., Stanley, and Bennett.)
- Stanley Insulating Company. (See Smith, Herbert M., assignor.)
- Stanley Motor Carriage Company. (See Broad, Charles E., assignor.)
- Stanley, Sidney, Springfield, Mass. Drainer. No. 1,374,776; Apr. 12; v. 285; p. 311.
- Stanley, Theodore D., assignor to Leland Lock Company, Detroit, Mich. Steering-wheel lock. No. 1,372,103; Mar. 22; v. 284; p. 614.
- Stanley, Theodore D., assignor to Leland Lock Company, Detroit, Mich. Steering-wheel lock. No. 1,395,608; Nov. 1.
- Stanley, Theodore D., assignor to Leland Lock Company, Detroit, Mich. Lock for steering-wheels. No. 1,395,609; Nov. 1.
- Stanley, Thomas R., Oil City, Pa. Coupling for rods. No. 1,389,787; Sept. 6; v. 290; p. 46.
- Stanley, Vincent C., Brookline, Mass., assignor to The Gamewell Fire Alarm Telegraph Company, New York, N. Y. Electrode for storage batteries. No. 1,388,530; Aug. 23; v. 289; p. 690.
- Stanley Works, The. (See Bodmer, Christian, assignor.)
- Stanley Works. (See Cherry, Edward A., assignor.)
- Stannard, Joseph H., Sr., Columbia, S. C. Boiler-furnace. No. 1,395,610; Nov. 1.
- Stannard, Winfield H. (See Loomis, A. L., Klopsteg, Agnew, and Stannard.)
- Stano, John, Livingston, Ill. Automobile direction-indicator and wheel-angle gage. No. 1,391,701; Sept. 27; v. 290; p. 659.
- Stansbury, George E., and R. Harper, Catlin, assignors of one-half to H. C. Shockley, Danville, Ill. Support. No. 1,381,761; June 14; v. 287; p. 325.
- Stansbury, Harry S., Ashland, assignor of one-half to C. F. Ensor, Verona, Md. Grain-cleaning machine. No. 1,398,162; Nov. 22.
- Stanton, Edward L., H. T., and S. J., St. Louis, Mo. Rain and sun shield for automobiles. No. 1,384,574; July 12; v. 288; p. 322.
- Stanton, Frederick W., Chicago, Ill. Syringe. No. 1,392,085; Sept. 27; v. 290; p. 737.
- Stanton, Harry T. (See Stanton, Edward L., H. T., and S. J.)
- Stanton, John T., Childress, Tex. Cotton-harvester. No. 1,373,269; Mar. 29; v. 284; p. 883.
- Stanton, John T., Seattle, Wash. Electrical appliance. No. 1,375,863; Apr. 26; v. 288; p. 613.
- Stanton, Mark T., Cleveland Heights, assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rail-bond protector. No. 1,390,468; Sept. 13; v. 290; p. 273.
- Stanton, Patrick J., Lundale, W. Va. Self-operating mine-door for locomotives. No. 1,374,478; Apr. 12; v. 285; p. 255.
- Stanton, Stoddard J. (See Stanton, Edward L., H. T., and S. J.)
- Stanwood Equipment Company. (See Stanwood, Frank H., assignor.)
- Stanwood, Frank H., Chicago, Ill., assignor to Stanwood Equipment Company, Boston, Mass. Step-plate for automobiles and the like. No. 1,373,366; Mar. 29; v. 284; p. 902.
- Stanzel, Carl, New York, N. Y. Saw-sharpening apparatus. No. 1,385,339; July 19; v. 288; p. 560.
- Staples, Albert F., Boston, Mass., assignor to The Hoover Suction Sweeper Company, North Canton, Ohio. Suction-sweeper. No. 1,401,007; Dec. 20.
- Staples, George, Oshkosh, assignor to Staples and Seefeld, Milwaukee, Wis. Antiskid device. No. 1,379,059; May 24; v. 286; p. 693.



*Alphabetical list of patentees—Continued.*

- Staples, John A., Newburgh, N. Y. Foot-control device. No. 1,367,509; Feb. 1; v. 283; p. 125.
- Staples and Seefeld. (See Staples, George, assignor.)
- Star Car & Foundry Company, The. (See Purdy, Walter S., assignor.)
- Star Rubber Company, The. (See Gostlin, Frederick J., assignor.)
- Star Tool and Manufacturing Company. (See Richer, J. R., and Hessler, assignors.)
- Star Watch Case Co. (See Wachter, Louis E. F., assignor.)
- Starbard, Vertner, Auburn, assignor of one-half to G. M. Rosenberg, Worcester, Mass. Soap-feeder for fulling-mills. No. 1,373,030; Mar. 29; v. 284; p. 836.
- Stark, William A. (See Hathaway, C. H., Stark, and McEvoy.)
- Stark, Charles L., La Junta, Colo. Wire-stretcher. No. 1,373,270; Mar. 29; v. 284; p. 884.
- Stark, Harry S., assignor to Miffag & Volger, Incorporated, Park Ridge, N. J. Typewriter-ribbon. No. 1,392,458; Oct. 4.
- Stark-Inland Machine Works. (See Dean, Clark A., assignor.)
- Stark, John E., Atlanta, Ga. Paper-clip. No. 1,369,717; Feb. 22; v. 283; p. 697.
- Stark, Ottmar G. (See Flammang, John, assignor.)
- Stark, Vester, Fairfield, Iowa. Power-transmitter. No. 1,368,300; Feb. 15; v. 283; p. 382.
- Stark, Walter, Auburn, Calif. Drill-parallel. No. 1,387,329; Aug. 9; v. 289; p. 343.
- Stark, William N. (See Hassam, Walter E., assignor.)
- Starkey, Alan B., Duluth, Minn. Slip-clevis. No. 1,384,217; July 12; v. 288; p. 248.
- Starkey, Luella, assignor of one-half to O. F. Decker, Enid, Okla. Corset-top pad. No. 1,394,370; Oct. 18.
- Starkey, William C., assignor to The Ohio Brass Company, Mansfield, Ohio. Winding device. No. 1,372,046; Mar. 22; v. 284; p. 603.
- Starks, George L., Harriettstown, N. Y. Reclining-chair. No. 1,377,605; May 10; v. 286; p. 290.
- Starks, Bernard J., Eau Claire, Wis. Extractor for piano-hammers. No. 1,365,559; Jan. 11; v. 282; p. 336.
- Starley, William, Erdington, England. Fork for cycles. No. 1,370,564; Mar. 8; v. 284; p. 199.
- Starling, James S., North Tonawanda, N. Y. Threshing-machine. No. 1,395,611; Nov. 1.
- Starling, Sydney G., Forest Gate, and A. J. Hughes, assignors to Henry Hughes and Son Limited, London, England. Aneroid barometer. No. 1,377,032; May 3; v. 286; p. 125.
- Starmer, Mary, Newport News, Va. Garment-supporter. No. 1,375,118; Apr. 19; v. 285; p. 440.
- Starmer, Mary, Newport News, Va. Suspender connection. No. 1,383,164; June 28; v. 287; p. 704.
- Starmer, Mary, Newport News, Va. Garment-supporter. No. 1,383,165; June 28; v. 287; p. 704.
- Starmer, Mary, Newport News, Va. Garment-supporter. No. 1,389,226; Aug. 30; v. 289; p. 882.
- Starmer, Mary, Newport News, Va. Garment-supporter. No. 1,392,237; Sept. 27; v. 290; p. 768.
- Starr, Charles E., Sedro Woolley, assignor to Seattle Patent Holding Corporation, Seattle, Wash. Vehicle driving-gear. No. 1,370,378; Mar. 1; v. 284; p. 118.
- Starr, Charles E., assignor to Perfecto Gear Differential Co., Bellingham, Wash. Spring-hanger for automobiles. No. 1,383,579; July 5; v. 288; p. 66.
- Starr, Charles L. (See McDaniel, Newton M., assignor.)
- Starr, Edward B., and H. E. Marsh, Lompoc, Calif. Apparatus for cutting bricks or blocks from natural deposits. No. 1,392,459; Oct. 4.
- Starr, Fletcher C., Philadelphia, Pa. Fuel-oil burner. No. 1,381,095; June 7; v. 287; p. 148.
- Starr, Fred, Oakland, Calif. Toy vehicle. No. 1,368,066; Feb. 8; v. 283; p. 288.
- Starr, Fred, Oakland, Calif. Toy vehicle. No. 1,368,975; Feb. 15; v. 283; p. 513.
- Starr, George F., Salem, Ore. Prune-tray cleaner and sacker. No. 1,388,211; Aug. 23; v. 289; p. 626.
- Starr, Isidore, New York, N. Y. Picture-frame. No. 1,381,762; June 14; v. 287; p. 325.
- Starr, Jennie M., Montrose, S. D. Antiskid-chain. No. 1,392,881; Oct. 4.
- Starr, Meyer. (See Mund, I., and Starr.)
- Starr, Morton H., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Scale. No. 1,385,592; July 26; v. 288; p. 689.
- Starr, Morton H., St. Johnsbury, Vt., assignor to E. and T. Fairbanks and Company. Dial-scale. No. 1,393,179; Oct. 11.
- Starr, Norman S., and L. E. Collier, Moweaqua, Ill.; said Collier assignor to said Starr. Protective device. No. 1,391,915; Sept. 27; v. 290; p. 702.
- Starr Piano Company. (See Maxwell, John S., assignor.)
- Starr, Wyatt C., Hosford, Fla. Tread-wheel. No. 1,377,447; May 10; v. 286; p. 261.
- Starrels, Joel, Niagara Falls, N. Y. Candy-making. No. 1,387,019; Aug. 9; v. 289; p. 282.
- Starrett, Arthur H., assignor to The L. S. Starrett Company, Athol, Mass. Tool-maker's button. No. 1,365,203; Jan. 11; v. 282; p. 267.
- Starrett, L. S. Company, The. (See Starrett, L. S., and Adell, assignors.)
- Starrett, Henry F., assignor to Starrett Manufacturing Company, Chicago, Ill. Directory-frame. No. 1,366,968; Feb. 1; v. 283; p. 17.
- Starrett, Laroy S., and J. A. Adell, assignors to The L. S. Starrett Company, Athol, Mass. Fine-adjustment bevel-protractor and the like. No. 1,384,105; July 12; v. 288; p. 225.
- Starrett Manufacturing Company. (See Starrett, Henry F., assignor.)
- Stasse, John, Laporte, Ind. Pneumatic-tire armor. No. 1,381,027; June 7; v. 287; p. 135.
- Staten, Daniel W., Los Angeles, Calif. Gas-burner. No. 1,368,067; Feb. 8; v. 283; p. 289.
- States, Louis A., Gastonia, N. C. Grate. No. 1,387,871; Aug. 16; v. 289; p. 503.
- Statler, Charles A., Chicago, Ill. Roof. No. 1,372,208; Mar. 22; v. 284; p. 634.
- Staudé, Edwin G., Minneapolis, Minn. Internal-combustion engine. No. 1,370,927; Mar. 8; v. 284; p. 268.
- Staudé, Edwin G., Minneapolis, Minn. Tractor. No. 1,389,079; Aug. 30; v. 289; p. 853.
- Staudé, Edwin G., Minneapolis, Minn. Gas-engine governor. No. 1,395,932; Nov. 1.
- Staudt, August. (See Stommel, Hugo, assignor.)
- Stauffen, Charles F. (See Froehlich, Harry T., assignor.)
- Stauwerke A.-G. (See Sommer, Otto, assignor.)
- Stawicki, Vincent, Milwaukee, Wis. Automobile-jack. No. 1,387,563; Aug. 16; v. 289; p. 441.
- Stayman, David F., Baltimore, Md., assignor to I. G. Engle, Philadelphia, Pa. Hydraulic valve. No. 1,385,932; July 26; v. 288; p. 757.
- Sté The Dunlop Rubber Co. (See Macbeth, Allan, assignor.)
- Stead, Charles E. (See Skeen, Samuel T., assignor.)
- Stead, Ernest, Binghamton, N. Y. Device for positioning and measuring optical axes of lenses in edge-grinding machines. No. 1,389,912; Sept. 6; v. 290; p. 72.
- Steadman, Christopher. (See Robinson, H. O., and Steadman.)
- Steadworthy, Henry. (See Cooper, F. W., and Steadworthy, assignors.)
- Steam-Electric Products Company, The. (See W. F. Clark, assignor.)
- Steam Electric Products Company, The. (See Clark, Warren F., assignor.)
- Stearly, Haitie, administratrix. (See Taggart, William P.)
- Stearn, Franklin A., Paterson, N. J., and F. J. Scudder, Long Island, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,395,977; Nov. 1.
- Stearns, George H., Roxbury, Mass. Rotary engine. No. 1,378,430; May 17; v. 286; p. 501.
- Stearns, Jason C., Worcester, Mass., and F. A. Culver, Detroit, Mich. Combined ignition and lighting switch. No. 1,369,140; Feb. 22; v. 283; p. 585.
- Stearns, Marcus C., Chicago, Ill. Spoon-holder. No. 1,369,945; Mar. 1; v. 284; p. 36.
- Stearns, Ralph W., Schenectady, N. Y., assignor to General Electric Company. Resistance material. No. 1,394,949; Oct. 25.
- Stearns Roger Manufacturing Company, The. (See Gordon, R. W., and Daman, assignors.)
- Stearns, Roswell H. (See Bethke, J. P., and Stearns.)
- Steatite Electric Products Corporation. (See Finizio, Thomas D., assignor.)
- Stebbing, Eugene, Des Moines, Iowa. Coupon system. No. 1,394,262; Oct. 18.
- Stebe, Jacob, Chicago, Ill. Manufacturing straw hats. No. 1,373,210; Mar. 29; v. 284; p. 872.
- Stebler, Fred. (See Bryan, Edgar J., assignor.)
- Stebner, Thomas, Mandan, N. D. Lock. No. 1,365,861; Jan. 18; v. 282; p. 434.
- Stec, Dominik. (See Babirad, Nicolaus, assignor.)
- Stechbart, Bruno, Chicago, Ill. Reversing-switch. No. 1,399,411; Dec. 6.
- Steckler, William, New Orleans, La. Device for repairing railway rails. No. 1,371,126; Mar. 8; v. 284; p. 305.
- Steddum, Calvin B., Los Angeles, Calif. Desk. No. 1,379,134; May 24; v. 286; p. 708.
- Stedman, George M. (See Schipper, George A., assignor.)
- Steedman, Edwin H., St. Louis, assignor to Curtis & Co. Mfg. Co., Wellston, Mo. Overhead crane. No. 1,397,558; Nov. 22.
- Steedman, Henry P. G., London, England, assignor to Verplex Art Company, Inc. Reproduction of oil-paintings. No. 1,376,652; May 3; v. 286; p. 51.
- Steedman, Henry P. G., London, England, assignor to Verplex Art Company, Inc. Reproducing oil-paintings. No. 1,376,653; May 3; v. 286; p. 51.
- Stegers y Torres, F., and A. Florido y Ortiz, Ciego de Avila, Cuba. Signaling mechanism. No. 1,365,208; Jan. 11; v. 282; p. 268.
- Steel Heddle Manufacturing Company. (See Kaufmann, Jacob, assignor.)
- Steel, James, Liverpool, England. Lace. No. 1,368,853; Feb. 15; v. 283; p. 490.
- Steel Products Company, The. (See Budrow, Edward H., assignor.)
- Steel Products Engineering Company, The. (See Rausenberger, Laurence E., assignor.)
- Steel Wings Company. (See Howard, H. H., and Fumridge, assignors.)



## Alphabetical list of patentees—Continued.

- Steele, Archie W., Bloomfield, assignor to W. J. Hawkins, Montclair, N. J. Electric fuse. No. 1,386,138; Aug. 2; v. 289; p. 35.
- Steele, Archie W., Bloomfield, assignor to W. J. Hawkins, Montclair, N. J. Electric fuse. No. 1,393,982; Oct. 18.
- Steele, Archie W., Bloomfield, assignor to W. J. Hawkins, Montclair, N. J. Electric fuse. No. 1,396,297; Nov. 8.
- Steele, Charles B., Philadelphia, Pa. Convertible rolling chair. No. 1,393,461; Oct. 11.
- Steele, Charles W. (See Stevens, W. C., and Steele.)
- Steele, Charles W., Portland, Oreg. Stockless anchor. No. 1,366,218; Jan. 18; v. 282; p. 504.
- Steele, Charles W., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Machine for manufacturing articles of rubber and fabric. No. 1,366,969; Feb. 1; v. 283; p. 18.
- Steele, Chauncey D., New York, N. Y. Combination scale-jack. No. 1,368,854; Feb. 15; v. 283; p. 491.
- Steele, Edwin G. (See Sutton, H. M., and Steele.)
- Steele, Edwin G. (See Sutton, H. M., and W. L., and E. G. Steele.)
- Steele, Herbert H., Brooklyn, assignor, by mesne assignments, to John H. Eggers Company, Inc., New York, N. Y. Coin-card and making the same. No. 1,398,607; Nov. 29.
- Steele, Herbert H., Pittsford, assignor to Todd Protograph Company, Inc., Rochester, N. Y. Check-writer. No. 1,400,574; Dec. 20.
- Steele, Herbert H., Pittsford, assignor to Todd Protograph Company, Rochester, N. Y. Check-writer. No. 1,400,575; Dec. 20.
- Steele, Herbert H., Brooklyn, assignor, by mesne assignments, to John H. Eggers Company, Inc., New York, N. Y. Machine for making coin-cards. No. 1,400,634; Dec. 20.
- Steele, Mary J., San Francisco, Calif. Dispensing-container. No. 1,396,469; Nov. 8.
- Steele, Paul D., and A. E. Sidnell, Denver, Colo. Washcloth and making it. No. 1,384,871; July 19; v. 288; p. 465.
- Steele, Thomas, assignor to The Columbus Dental Manufacturing Company, Columbus, Ohio. Instrument for handling artificial teeth. No. 1,369,718; Feb. 22; v. 283; p. 697.
- Steele, Walter L. (See Sutton, H. M., and Steele.)
- Steele, Walter L. (See Sutton, H. M., and W. L. and E. G. Steele.)
- Steelhead Skylight Co. (See Hutchinson, J. T., Shaw, and Barnes, assignors.)
- Steen, Buford J., Goose Creek, Tex. Pipe-gripping device. No. 1,391,804; Sept. 27; v. 290; p. 679.
- Steen Combination Lock Company. (See Steen, John I.)
- Steen, Halfdan A., Christiania, Norway, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Magnetic controlling mechanism. No. 1,385,801; July 26; v. 288; p. 731.
- Steen, John I., assignor to Steen Combination Lock Company, Waukegan, Ill. Lock. No. 1,369,850; Mar. 1; v. 284; p. 18.
- Steen, John I., assignor to The Triple Metals Corporation, Waukegan, Ill. Attachment for washboiler. No. 1,392,460; Oct. 4.
- Steenstra, George, assignor of one-half to L. Van Berg, St. Louis, Mo. Fender for automobiles and trucks. No. 1,377,736; May 10; v. 286; p. 315.
- Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Blade-securing means and making the same. No. 1,366,605; Jan. 25; v. 282; p. 625.
- Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,373,919; Apr. 5; v. 285; p. 105.
- Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Elastic-fluid turbine. No. 1,378,493; May 17; v. 286; p. 513.
- Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Shaft-packing. No. 1,382,941; June 28; v. 287; p. 662.
- Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Manufacturing nozzle-diaphragms for elastic-fluid turbines. No. 1,390,835; Sept. 13; v. 290; p. 348.
- Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Shaft-coupling and making same. No. 1,393,582; Oct. 11.
- Steere, Clarence E., assignor to Sprague Canning Machinery Company, Chicago, Ill. Filling-machine. No. 1,364,650; Jan. 4; v. 282; p. 116.
- Steere Engineering Company. (See Steere, Frank W., assignor.)
- Steere, Frank W., assignor to Steere Engineering Company, Detroit, Mich. Purifier reverse-flow mechanism. No. 1,386,443; Aug. 2; v. 289; p. 94.
- Steere, Frank W., and W. C. Woodland, Detroit, Mich. Process and means for removing suspended matter from gas. No. 1,393,712; Oct. 11.
- Steers, Henry, Inc. (See Snell, Joseph E., assignor.)
- Steers, Thomas E., St. Louis, Mo. Automobile-jack. No. 1,366,751; Jan. 25; v. 282; p. 653.
- Steerup, Godfrey, Chicago, Ill., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Storage-battery separator. No. 1,370,064; Mar. 1; v. 284; p. 58.
- Steffan, George, New York, N. Y. Stone digging and collecting machine. No. 1,380,936; June 7; v. 287; p. 117.
- Steffan, Joseph J., St. Louis, Mo. Phonograph-horn. No. 1,386,907; Aug. 9; v. 289; p. 260.
- Steffens, Fred. (See Gearhart, R. E., and Steffens.)
- Steffens, John A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Producing catalyzers. No. 1,400,247; Dec. 13.
- Steffes, Frederick W., Wien, Mo. Collapsible crate. No. 1,371,581; Mar. 15; v. 284; p. 458.
- Steffey, Ernest B., Lawrenceville, Ill. Tire-changing tool. No. 1,397,465; Nov. 15.
- Steger, August, assignor of one-fourth to G. A. Woodman, Chicago, Ill. Car-ventilator. No. 1,389,788; Sept. 6; v. 290; p. 46.
- Stehli Silks Corporation. (See Bonner, Paul H., assignor.)
- Steidle, Joseph P., Wilkes-Barre, Pa. Floor-wax. No. 1,389,391; Aug. 30; v. 289; p. 915.
- Steiger, John H. (See Wilms, G. D., and Steiger.)
- Steinke, Walter H. (See Jett, George C., assignor.)
- Steinmigg, Franz, Hanover, Germany. Precipitating viscose. No. 1,399,587; Dec. 6.
- Stein, A., & Company. (See Kuehn, Charles P., assignor.)
- Stein, A., & Company. (See Schmidt, Frank J., assignor.)
- Stein, Adolph H., executor. (See Hauck, Arthur E., assignor.)
- Stein, Alec and G., New York, N. Y. Finger-protector. No. 1,388,618; Aug. 23; v. 289; p. 707.
- Stein, Charles M., assignor to Societe Anonyme des Appareils De Manutention Et Fours Stein, Paris, France. Crucible smelting-furnace. No. 1,365,204; Jan. 11; v. 282; p. 267.
- Stein, Charles M., assignor to Societe Anonyme des Appareils de Manutention et Fours Stein, Paris, France. Annealing. No. 1,388,976; Aug. 30; v. 289; p. 832.
- Stein, Edward A. (See Stein, William L., assignor.)
- Stein, George. (See Stein, Alec and G.)
- Stein, George W., Chicago, Ill. Window-lock. No. 1,380,263; May 31; v. 286; p. 995.
- Stein, Louis, New York, and L. Brumer, Brooklyn, N. Y. Hose-coupling. No. 1,368,068; Feb. 8; v. 283; p. 289.
- Stein, Meyer, assignor of one-half to P. Stein, Springfield, Ill. Acetylene-lamp. No. 1,376,654; May 3; v. 286; p. 52.
- Stein, Philip. (See Stein, Meyer, assignor.)
- Stein, Richard, *et al.* (See Liebenow, Karl, assignor.)
- Stein, Rudolph E., Minneapolis, Minn., assignor to United States Ordnance Company, Washington, D. C. Dismantling secondary batteries. (Reissue.) No. 15,230; Nov. 15.
- Stein, Samuel F., Williamsport, Pa. Sewing-machine. No. 1,383,438; July 5; v. 288; p. 36.
- Stein, William L., assignor of one-half to E. A. Stein, New York, N. Y. Changeable exhibitor. No. 1,387,625; Aug. 16; v. 289; p. 454.
- Steinberg, Henry G., Milwaukee, Wis. Capstan device for motor-trucks. No. 1,378,734; May 17; v. 286; p. 560.
- Steinberger, Louis, Brooklyn, N. Y. Telephone-receiver. No. 1,366,606; Jan. 25; v. 282; p. 625.
- Steinberger, Louis, Brooklyn, N. Y. Telephone-receiver. No. 1,366,607; Jan. 25; v. 282; p. 625.
- Steinberger, Louis, Brooklyn, N. Y. Insulating collector-spool. No. 1,382,609; June 21; v. 287; p. 545.
- Steinberger, Louis, Brooklyn, N. Y., and G. Hill, Washington, D. C. Insulated support for electrical conductors. (Reissue.) No. 15,030; Jan. 18; v. 282; p. 528.
- Steinbock, Philip, New York, N. Y. Self-lubricating dust-proof sewing-machine. No. 1,380,120; May 31; v. 286; p. 968.
- Steinbrecher, John, Chicago, Ill. Shank-piece and metatarsal-arch support. No. 1,387,952; Aug. 16; v. 289; p. 518.
- Steinbrenner, William H., Cincinnati, Ohio. Iron-waxer. No. 1,370,712; Mar. 8; v. 284; p. 227.
- Steindorff, Edward B., Stillwater, Minn. Tuning-slide for trumpets and the like. No. 1,382,688; June 28; v. 287; p. 614.
- Steinen, Otto. (See La Fontaine, George A., assignor.)
- Steiner, Bernhard, New York, N. Y. Press-stud. No. 1,376,298; Apr. 26; v. 285; p. 697.
- Steiner, Fred W. (See Walton, Frank A., assignor.)
- Steiner, Hans, Vienna, Austria, assignor to J. Schmid, New York, N. Y. Producing imitations of galathea, celluloid, and the like. No. 1,396,075; Nov. 8.
- Steiner, Mary E., *et al.*, administratrices. (See Walker, Edwin.)
- Steiner, Philip H., San Francisco, Calif. Self-aligning piston-valve. No. 1,374,405; Apr. 12; v. 285; p. 239.
- Steinert, Rudolph, New Haven, Conn. Phonograph-needle and resonator therefor. No. 1,391,425; Sept. 20; v. 290; p. 531.
- Steinfeld Bros. (See Steinfeld, Leo, assignor.)
- Steinfeld, Leo, assignor to Steinfeld Bros., New York, N. Y. Couch-hammock. No. 1,372,785; Mar. 29; v. 284; p. 787.
- Steinhart, Herman, assignor to Firm of Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Electric starting-motor. No. 1,386,285; Aug. 2; v. 289; p. 64.
- Steinkamp, George F., Cincinnati, Ohio. Bath-chair. No. 1,374,685; Apr. 12; v. 285; p. 294.
- Steinkamp, George F., Cincinnati, Ohio. Bath-room fixture. No. 1,379,318; May 24; v. 286; p. 743.



*Alphabetical list of patentees—Continued.*

- Steinke, Lawrence L., Farmington, Ill. Barrel-cart. No. 1,374,406; Apr. 12; v. 285; p. 240.
- Steinkeller, Thomas J., Berkeley, Calif. Automatic retainer-valve. No. 1,397,909; Nov. 22.
- Steinkraus, Henry P., Bertha, assignor of one-third to W. P. Chase, Baker, Minn. Masonry silo. No. 1,383,166; June 28; v. 287; p. 705.
- Steinle, William J., Elmhurst Heights, N. Y., assignor to The Hartford Rubber Works Company. Method and apparatus for making cords or other like articles. No. 1,365,560; Jan. 11; v. 282; p. 336.
- Steinman, William C., *et al.* (See Recktenwald, John, assignor.)
- Steinmetz Electric Motor Car Corporation. (See Asprooth, A. H. J., and Leoni, assignors.)
- Steinmetz Electric Motor Car Corporation. (See Leoni, Alfonso M., assignor.)
- Steinmetz, Joseph A., Philadelphia, Pa. Attachment for aircraft used in war. No. 1,364,152; Jan. 4; v. 282; p. 20.
- Steinmetz, Theodore A., assignor of one-half to A. L. Payne, Eau Claire, Wis. Automatic duplicating-machine. No. 1,401,826; Dec. 27.
- Steinmeyer, William F. (See Wright, Jefferson G., assignor.)
- Stelk, John. (See Szameit, Mieczyslaw J., assignor.)
- Stemmons, Beverly L., Charlotte, N. C., assignor to General Electric Company. Protective device. No. 1,396,538; Nov. 8.
- Stemons, James S., Philadelphia, Pa. Sounding toy. No. 1,368,855; Feb. 15; v. 283; p. 491.
- Stenberg, Anders G., Galveston, Tex. Dredge-pump. No. 1,374,533; Apr. 12; v. 285; p. 265.
- Stenberg, Charles H., Radcliffe, Iowa. Oil-feed for wickless oil-burners. No. 1,383,167; June 28; v. 287; p. 705.
- Stenbol, Carl, Sault Ste. Marie, Ontario, Canada. Wide-opening clam-shell bucket. No. 1,382,327; June 21; v. 287; p. 490.
- Stencell, August J., Pembroke, Ontario, Canada. Stove-polish. No. 1,382,026; June 21; v. 287; p. 434.
- Stene, Thorwald C., Jacksonville, Fla. Shears. No. 1,399,668; Dec. 6.
- Steneman, Emil F., Arcadia, Wis. Nest. No. 1,400,576; Dec. 20.
- Stenger, Ferdinand P. (See Niedergang, C., Stenger, and Frey.)
- Stenger, Laurence A., Denver, Colo. Pressure registering and recording device. No. 1,386,661; Aug. 9; v. 289; p. 209.
- Stenger, Leonard U., and R. Summerfield, Alameda, Calif. Demountable rim. No. 1,378,494; May 17; v. 286; p. 513.
- Stenner, Edgar J., assignor of one-third to H. F. Czarnowsky, and one-third to L. A. Engel, Baltimore, Md. Device for reversing printed forms. No. 1,381,677; June 14; v. 287; p. 308.
- Stenning, Walter E., Providence, R. I. Portable electric engraving instrument. No. 1,379,841; May 31; v. 286; p. 915.
- Stent, Dudley H., Delhi, India. Means for securing rails or heavy bodies to concrete sleepers, walls, or floors. No. 1,398,748; Nov. 29.
- Stenvall, Bruno B., Brooklyn, N. Y. Electric-light fixture. No. 1,369,719; Feb. 22; v. 283; p. 697.
- Stephan, Frederick D. (See Stephan, William F., J. A., and F. D.)
- Stephan, John A. (See Stephan, William F., J. A., and F. D.)
- Stephanus, C. J. (See Cushman, Fred, assignor.)
- Stephen, David G., Monrovia, Calif. Tow-rope and hitch. No. 1,375,119; Apr. 19; v. 285; p. 440.
- Stephen Richard Company, The. (See Paquette, Origene J., assignor.)
- Stephen, William F., J. A., and F. D. Shelbyville, Ind. Boot and shoe. No. 1,400,836; Dec. 20.
- Stephens-Adamson Mfg. Co. (See Avery, Colby M., assignor.)
- Stephens-Adamson Mfg. Co. (See Kendall, Myron A., assignor.)
- Stephens, Albert G., Indianapolis, Ind. Sanitary display-case. No. 1,390,000; Sept. 6; v. 290; p. 89.
- Stephens, Arnold A., assignor of one-half to Dr. K. Vollmer, Davenport, Iowa. Rear-axle mounting for motor-vehicles. No. 1,367,927; Feb. 8; v. 283; p. 262.
- Stephens, Charles, London, England. Machine for drying leather, yarns, jute, and like materials. No. 1,384,359; July 12; v. 288; p. 277.
- Stephens, Charles Z., Richmond, Va., assignor, by mesne assignments, to American Automatic Train Control Corporation. System for automatically controlling the movement of trains. No. 1,391,519; Sept. 20; v. 290; p. 550.
- Stephens, Clyde, Rosendale, Mo. Pneumatic jack and pump. No. 1,375,332; Apr. 19; v. 285; p. 481.
- Stephens, Edward A., Los Angeles, Calif. Concrete sash-weight. No. 1,386,538; Aug. 2; v. 289; p. 112.
- Stephens Engineering Company. (See Stephens, Thomas J., assignor.)
- Stephens, Harry H., Paterson, N. J. Centrifugal hanger. No. 1,365,290; Jan. 11; v. 282; p. 284.
- Stephens, Harry H., Paterson, and T. Gray, Jersey City, N. J. Shim and making the same. No. 1,365,291; Jan. 11; v. 282; p. 284.
- Stephens, Howard O., Pittsfield, Mass., assignor to General Electric Company. Water-cooled transformer. No. 1,394,044; Oct. 18.
- Stephens, Hugh T., London, England. Rubber protector for the soles and heels of footwear. No. 1,370,065; Mar. 1; v. 284; p. 58.
- Stephens, Isaac, and F. W. Evans, Ida-H, near Laverton, Western Australia, Australia. Rear-axle clutch-gear for motor-vehicles. No. 1,368,856; Feb. 15; v. 283; p. 491.
- Stephens, James C., Bruceville, Ind. End-gate and chute. No. 1,384,713; July 12; v. 288; p. 352.
- Stephens, James C., Norfolk, Va., assignor to Huff Process Company, Wilmington, Del. Heating apparatus for use in oil-wells. No. 1,373,777; July 5; v. 288; p. 108.
- Stephens, James C., Norfolk, Va., assignor to Huff Process Company, Wilmington, Del. Heating apparatus for use in oil-wells. No. 1,383,670; July 5; v. 288; p. 86.
- Stephens, Jay Q., Kansas City, Mo. Combination shipping, packing, and dispensing device. No. 1,388,977; Aug. 30; v. 289; p. 832.
- Stephens, John R., St. Louis, Mo. Car-axle bearing. No. 1,401,203; Dec. 27.
- Stephens, Milo M. and W., Lakeview, Mich. Potato-picker. No. 1,389,789; Sept. 6; v. 290; p. 46.
- Stephens, Phil A., St. Louis, Mo. Fountain-brush. No. 1,391,282; Sept. 20; v. 290; p. 501.
- Stephens, Richard H., assignor of one-half to Kynoch Limited, Birmingham, England. Vapor-stove. No. 1,400,384; Dec. 13.
- Stephens, Richard M., Glen-Ellen, assignor, by mesne assignments, of one-half to E. L. Lipp and C. E. Manley, and one-half to C. F. Degner, Los Angeles, Calif. Water-heater. No. 1,366,752; Jan. 25; v. 282; p. 654.
- Stephens, Robert F., Raton, N. Mex. Signal apparatus. No. 1,394,950; Oct. 25.
- Stephens, Samuel F., assignor of one-third to W. J. Boyle, Sr., and one-third to C. G. Grant, Los Angeles, Calif. Apparatus for refining oils. No. 1,375,427; Apr. 19; v. 285; p. 499.
- Stephens, Thomas J., assignor to Stephens Engineering Company, New Castle, Pa. Oxidizing fuel. No. 1,369,200; Feb. 22; v. 283; p. 596.
- Stephens, William. (See Stephens, Milo M. and W.)
- Stephens, William A., Oakland, Calif. Automatic tire-signal. No. 1,388,007; Aug. 16; v. 289; p. 529.
- Stephens, William B., Sunset, Tex. Burglar-alarm. No. 1,398,924; Nov. 29.
- Stephenson, Cyril, North Vancouver, British Columbia, Canada. Automobile running-board. No. 1,364,330; Jan. 4; v. 282; p. 55.
- Stephenson, George S., Los Angeles, Calif. Farm implement. No. 1,364,900; Jan. 11; v. 282; p. 208.
- Stephenson, Harry, Andover, Mass. Textile-machine. No. 1,378,912; May 24; v. 286; p. 666.
- Stephenson, Leigh J., *et al.*, trustees. (See Stephenson, L. J., assignor.)
- Stephenson, Leigh J., assignor to W. T. Fenton, B. V. Becker, L. A. Williams, G. B. Burrage, and L. J. Stephenson, trustees, Chicago, Ill. System of motor control. No. 1,389,080; Aug. 30; v. 289; p. 852.
- Stephenson, Leigh J., assignor to W. T. Fenton, B. V. Becker, L. A. Williams, G. B. Burrage, and L. J. Stephenson, trustees, Chicago, Ill. Motor-control system. No. 1,397,335; Nov. 15.
- Stepke, Erna M., Detroit, Mich. Child's sanitary bed-swing. No. 1,376,476; May 3; v. 286; p. 19.
- Sterling, Bernard A., Chicago, Ill. Hair-waver. No. 1,384,166; July 12; v. 288; p. 237.
- Sterling Bronze Company. (See Becker, Sylvester, assignor.)
- Sterling, Charles W., and J. J. Rettler, Appleton, Wis. Phonograph-cabinet. No. 1,371,944; Mar. 15; v. 284; p. 527.
- Sterling, Don L., assignor to Sterling Games Company, Dallas, Tex. Game. No. 1,365,561; Jan. 11; v. 282; p. 336.
- Sterling, Don L., assignor to Sterling Games Company, Dallas, Tex. Game-board. No. 1,384,280; July 12; v. 288; p. 261.
- Sterling Engineering Co. (See Hutchinson, Frank L., assignor.)
- Sterling Games Company. (See Sterling, Don L., assignor.)
- Sterling Iron Works. (See Archer, Alfred W., assignor.)
- Sterling Iron Works. (See Barnickol, W. F., and Archer, assignors.)
- Sterling Manufacturing Company. (See Rodemeyer, Henry F., assignor.)
- Sterling, Montagu M. (See Carter, Charles H., assignor.)
- Sterling, Paul, Wilkes-Barre, Pa. Automatic feeding means for shakers. No. 1,401,370; Dec. 27.
- Sterling Specialties Manufacturing Company. (See Vierling, F. J., Bartholomew, and Smith, assignors.)
- Sterling, Wilbur F., and V. E. Grotlich, Washington, D. C., and F. P. Veitch, College Park, Md. Making varnish materials. No. 1,395,874; Nov. 1.
- Stern, Charles, and G. F. Egan, Jersey City, N. J. Automobile tail-lamp and signal. No. 1,400,635; Dec. 20.
- Stern-Coleman Diamond Machine Company. (See Coleman, Clyde J., assignor.)



## Alphabetical list of patentees—Continued.

- Stern, David. (See Jellinek, C., and Stern.)  
 Stern, Isador. (See Khalil, Seyed, assignor.)  
 Stern, John, New York, N. Y. Garter-support. No. 1,375,188; Apr. 19; v. 285; p. 453.  
 Stern, Louis J., Boston, Mass. Hydrometer. No. 1,367,436; Feb. 1; v. 283; p. 110.  
 Stern, Milton C., assignor to The Egry Register Company, Dayton, Ohio. Autographic register. No. 1,378,628; May 17; v. 286; p. 539.  
 Stern, Milton C., and H. E. Tinnerman, assignors to The Egry Register Company, Dayton, Ohio. Autographic register. No. 1,364,153; Jan. 4; v. 282; p. 20.  
 Stern, Mitchel, Philadelphia, Pa. Backrest for bathtubs. No. 1,390,221; Sept. 6; v. 290; p. 132.  
 Stern, Moses E., et al. (See Keller, Bela A., assignor.)  
 Stern, Samuel W., Brooklyn, N. Y. Garter. No. 1,370,066; Mar. 1; v. 284; p. 59.  
 Sternad, Andrew, Chicago, Ill. Corn cleaning and sorting machine. No. 1,399,412; Dec. 6.  
 Sternau, S., & Co. (See Fisher, Harry L., assignor.)  
 Sternau, S., & Co. (See Ball, Henry P., assignor.)  
 Sternberg, Ralph B., and W. W. Webb, Chicago, Ill. Lubricator. No. 1,389,227; Aug. 30; v. 289; p. 882.  
 Sternberg, William D., London, England. Heel of boots and shoes. No. 1,389,913; Sept. 6; v. 290; p. 72.  
 Sternberger, Arthur, Paterson, N. J. Picker-stick. No. 1,372,727; Mar. 29; v. 284; p. 775.  
 Sternbergh, David, Reading, Pa. Advertising-sign. No. 1,383,439; July 5; v. 288; p. 38.  
 Sterner, William R., Chicago, Ill. Combination screen and storm-sash. No. 1,379,227; May 24; v. 286; p. 725.  
 Sterns, Edward, St. Louis, Mo., assignor, by mesne assignments, to Surety Tire & Rubber Company, Wilmington, Del. Vehicle-tire. No. 1,367,994; Feb. 8; v. 283; p. 275.  
 Sterns, Edward, St. Louis, Mo., assignor, by mesne assignments, to Surety Tire & Rubber Company, Wilmington, Del. Vehicle-tire. No. 1,367,995; Feb. 8; v. 283; p. 275.  
 Sterrett, Jessie, et al., administratrices. (See Walker, Edwin.)  
 Sterrick, Harrison D., Pittsburgh, Pa. Telephone attachment. No. 1,367,169; Feb. 1; v. 283; p. 57.  
 Stertzbach, Harry W. (See Johnson, G. T., and Stertzbach.)  
 Stetson, Frank C., et al. (See Roberts, Frank E., assignor.)  
 Stetson, Fred W., and J. L. Essex, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Removing and recovering solvent from nitrocellulose explosives. No. 1,393,713; Oct. 11.  
 Stettler, Gottfried, assignor to National Dairy Machine Company, Goshen, Ind. Side-car attachment for motorcycles. No. 1,379,655; May 31; v. 286; p. 881.  
 Stettner, Joseph H., Columbus, Ohio. Domestic heater. No. 1,383,671; July 5; v. 288; p. 86.  
 Steuerwald, Philip, Milwaukee, Wis. Door-fastening. No. 1,399,167; Dec. 6.  
 Steul and Thuman Company. (See Pohle, Frederick W., Jr., assignor.)  
 Steuterman, Frank M., St. Louis, Mo. Foldable receptacle. No. 1,377,638; May 10; v. 286; p. 296.  
 Steuterman, Otto A., Reading, Mass. Headlight for automobiles. No. 1,380,264; May 31; v. 286; p. 995.  
 Steven, Frank R., Brooklyn, N. Y., assignor to H. H. Treadwell Company. Casting apparatus. No. 1,364,901; Jan. 11; v. 282; p. 209.  
 Stevens, Alfred, assignor of fifteen one-hundredths to E. J. Hewit, Ashtabula, Ohio. Internal-combustion engine. No. 1,372,572; Mar. 22; v. 284; p. 704.  
 Stevens, Amy, et al. (See Traphagan, Frank M., assignor.)  
 Stevens, Arthur, Buffalo, N. Y. Separating partly miscible compounds. No. 1,394,232; Oct. 18.  
 Stevens, Arthur D., Jacksonville, Fla. Rolling-mill. No. 1,367,838; Feb. 8; v. 283; p. 246.  
 Stevens, Bertram A. (See Corral, H., and Stevens.)  
 Stevens, Burt D., Evanston, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Printing-press delivery mechanism. No. 1,365,742; Jan. 18; v. 282; p. 410.  
 Stevens, C. Amory. (See Collins, Caleb G., assignor.)  
 Stevens, Charles F., Flat Rock, Ill. Spring-releasing device for auto valve-springs. No. 1,369,987; Mar. 1; v. 284; p. 44.  
 Stevens and Company. (See Stevens, Frederick A., assignor.)  
 Stevens, E. F., et al. (See Lukens, W. R., and Gallagher, assignors.)  
 Stevens, Edward R., Worcester, Mass. Scraper. No. 1,381,248; June 14; v. 287; p. 228.  
 Stevens, Elbridge W., Baltimore, Md., assignor to Chemical Fuel Company of America, Inc., Louisville, Ky. Distillation process. No. 1,372,465; Mar. 22; v. 284; p. 684.  
 Stevens, Elbridge W., Baltimore, Md., assignor to Chemical Fuel Company of America, Inc., Louisville, Ky. Catalysis. No. 1,374,119; Apr. 5; v. 285; p. 144.  
 Stevens, Elbridge W., Baltimore, Md., assignor to Chemical Fuel Company of America, Inc., Louisville, Ky. Motor-fuel. No. 1,388,531; Aug. 23; v. 289; p. 690.  
 Stevens, Emme S., Lansdowne, Pa. Holding device for blankets. No. 1,368,582; Feb. 15; v. 283; p. 438.  
 Stevens, Ernest A., Youngstown, Ohio. Line-protractor. No. 1,368,857; Feb. 15; v. 283; p. 491.  
 Stevens, Frank M. (See Maple, Edward J. and C. J., assignors.)  
 Stevens, Frederick A., assignor to Steveus and Company, Incorporated, Providence, R. I. Ophthalmic mounting. No. 1,383,872; July 5; v. 288; p. 127.  
 Stevens, Frederick A., Providence, R. I., assignor to Stevens and Company, Incorporated. Ophthalmic-mounting-adjusting device. No. 1,384,872; July 19; v. 288; p. 465.  
 Stevens, Frederick M., New York, N. Y., assignor to John Chatillon & Sons. Trip-scale pan. No. 1,368,301; Feb. 15; v. 283; p. 382.  
 Stevens, Frederick M., assignor to John Chatillon & Sons, New York, N. Y. Tare-scale. No. 1,368,302; Feb. 15; v. 283; p. 382.  
 Stevens, Fremont C., assignor to American Building Products Company, Chicago, Ill. Measuring device. No. 1,378,572; May 17; v. 286; p. 528.  
 Stevens, George C., Seattle, Wash. Aeroplane attachments. No. 1,396,894; Nov. 15.  
 Stevens, Harry P., New York, N. Y. Internal-combustion engine. No. 1,385,099; July 19; v. 288; p. 512.  
 Stevens, Henry R. (See Rockwell, R. L., and Stevens.)  
 Stevens, Henry V., Emporia, Kans. Draft-regulator. No. 1,391,348; Sept. 20; v. 290; p. 515.  
 Stevens, Herbert C. M. (See Coatalen, L., and Stevens.)  
 Stevens, Horace D. (See Maranville, H. F., and Stevens.)  
 Stevens, Isaac, assignor to Yawman and Erbe Mfg. Co., Rochester, N. Y. Furniture-model. No. 1,374,247; Apr. 12; v. 285; p. 209.  
 Stevens, John A., Montreal, Quebec, Canada. Drop-leaf calendar. No. 1,371,269; Mar. 15; v. 284; p. 396.  
 Stevens, Joseph B., assignor of one-half to J. G. Foster, Six Mile Run, Pa. Electric indicator and alarm. No. 1,391,591; Sept. 20; v. 290; p. 564.  
 Stevens, Leo W., Everett, Wash. Insect-protector. No. 1,390,734; Sept. 13; v. 290; p. 328.  
 Stevens, Leslie, Glen Ridge, N. J. Hat-shaping apparatus. No. 1,392,605; Oct. 4.  
 Stevens, Neal H., Katalla, Alaska. Cigarette holder and mouthpiece. No. 1,374,686; Apr. 12; v. 285; p. 294.  
 Stevens, Paul S. (See Wilkie, E. J., Stevens, and Lehman.)  
 Stevens, Ransom H., assignor of one-third to W. R. Crowell and one-third to L. C. Comer, Los Angeles, Calif. Amalgamating metals. No. 1,384,683; July 12; v. 288; p. 346.  
 Stevens, Richard H., Philadelphia, Pa. Bin-gate. No. 1,398,047; Nov. 22.  
 Stevens, Shed P., Buffalo, Tex. Peanut-digger. No. 1,383,580; July 5; v. 288; p. 67.  
 Stevens, Sidney, Millinocket, Me. Testing device. No. 1,376,655; May 3; v. 286; p. 52.  
 Stevens, Sidney, Millinocket, Me. Chair for infirm people. No. 1,379,943; May 31; v. 286; p. 934.  
 Stevens, Sidney, Millinocket, Me. Parasol. No. 1,387,740; Aug. 16; v. 289; p. 477.  
 Stevens, Sylvester G., Duluth, Minn. Door-operating device for hopper-cars. No. 1,374,248; Apr. 12; v. 285; p. 209.  
 Stevens, Vern. (See Palmer, E., and Stevens.)  
 Stevens, William A., Maidstone, England. Power-transmitting mechanism. No. 1,398,656; Nov. 29.  
 Stevens, William C., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Circuit-controller. No. 1,396,694; Nov. 8.  
 Stevens, William C., Akron, Ohio, assignor to Pierce Wrapping Machine Company. Wrapping-machine folder. (Reissue.) No. 15,099; May 3; v. 286; p. 151.  
 Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Bead-cementing apparatus. No. 1,379,369; May 24; v. 286; p. 753.  
 Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Method and apparatus for manufacturing tires. No. 1,398,749; Nov. 29.  
 Stevens, William C., Summit county, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Wrapping and unwrapping machine. No. 1,395,063; Oct. 25.  
 Stevens, William C., Summit county, and C. W. Steele, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Motor-tire-applying apparatus. No. 1,388,902; Aug. 30; v. 289; p. 817.  
 Stevens, William H., New York, N. Y. Suspenders. No. 1,365,862; Jan. 18; v. 282; p. 435.  
 Stevens, William H., New York, N. Y. Clip or clasp. No. 1,381,438; June 14; v. 287; p. 264.  
 Stevens, William H., Hamilton, New Zealand. Construction of conduits for drainage and similar purposes. No. 1,386,808; Aug. 9; v. 289; p. 239.  
 Stevens, William L., Minneapolis, Minn. Music turner and carrier. No. 1,397,885; Nov. 22.  
 Stevenson, Albert F., Ridgewood, N. J., assignor to A. W. Johnston, New York, N. Y. Treatment of butter-fats. No. 1,397,663; Nov. 22.  
 Stevenson, Albert F., Ridgewood, N. J., assignor to A. W. Johnston, New York, N. Y. Manufacture of milk-fat. No. 1,397,664; Nov. 22.  
 Stevenson, Archie B. and L. L., Sonoma, Calif. Incubator-tray. No. 1,391,865; Sept. 27; v. 290; p. 693.  
 Stevenson, Arthur G., Rochester, N. Y. Brush. No. 1,374,330; Apr. 12; v. 285; p. 225.



- Stevenson, Ashton G., Chicago, Ill. Matrix-receptacle. No. 1,381,359; June 14; v. 287; p. 249.
- Stevenson, Charles M., Vancouver, British Columbia, Canada. Logging-engine. No. 1,389,324; Aug. 30; v. 289; p. 902.
- Stevenson, Charles M., Chicago, Ill., assignor to Stevenson Mfg. Co., Barton, Wis. Cattle-stall. No. 1,367,515; Feb. 1; v. 283; p. 126.
- Stevenson, Charles M., Rockford, Ill., assignor to Iowa Gate Company, Cedar Falls, Iowa. Stall construction. No. 1,373,458; Apr. 5; v. 285; p. 15.
- Stevenson, David W., Berkeley, Calif. Dispensing card-case. No. 1,378,294; May 17; v. 286; p. 475.
- Stevenson, George, Camden, N. J. Drying device. No. 1,399,903; Dec. 13.
- Stevenson, George M. (See Waters, G. E., and Stevenson.)
- Stevenson, John. (See Adam, M. A., Stevenson, and Mabbitt.)
- Stevenson, John. (See Adam, M. A., Stevenson, Mabbitt, and Fieldhouse.)
- Stevenson, John H. (See Knowlson, F., and Stevenson.)
- Stevenson, John M., Mason City, Iowa. End-gate rod. No. 1,383,168; June 28; v. 287; p. 703.
- Stevenson, Lewis L. (See Stevenson, Archie B. and L. L.)
- Stevenson Mfg. Co. (See Stevenson, Charles M., assignor.)
- Stevenson, Moses H., Rayville, La. Cotton-chopper. No. 1,381,028; June 7; v. 287; p. 136.
- Stevenson, Ralph D., assignor to The Safety Nut & Bolt Company, Cleveland, Ohio. Turnbuckle. No. 1,374,963; Apr. 19; v. 285; p. 409.
- Stevenson, Robert M., Victoria, British Columbia, Canada. Bull-hook. No. 1,392,026; Sept. 27; v. 290; p. 726.
- Stevenson, William D., Pittsburgh, Pa. Composite article including phenols and formaldehyde and making same. No. 1,392,535; Oct. 4.
- Stevenson, William G., Chicago, Ill. Rock-crusher roll. No. 1,377,370; May 10; v. 286; p. 246.
- Stevenson, Thomas, Framingham, Mass. Die for molding phonograph records and the like. No. 1,399,817; Dec. 13.
- Steverson, John M. (See Beagle, William J., assignor.)
- Steverson, Enoch B., Portsmouth, Va. Toy. No. 1,393,583; Oct. 11.
- Stevens, M. Edith. (See Brady, Meredith D., assignor.)
- Steward Davit & Equipment Corporation. (See Hills, Harry B., assignor.)
- Steward, John F., assignor, by mesne assignments, to F. Gerlach and A. B. Keller, trustees, Chicago, Ill. Device for raising a gang of plows. No. 1,388,978; Aug. 30; v. 289; p. 833.
- Stewart, Alexander, Waupaca, Wis. Clamshell-dumping device. No. 1,396,347; Nov. 8.
- Stewart, Alexander, Clintonville, Wis. Worm-driven four-wheel-drive tractor. No. 1,398,578; Nov. 29.
- Stewart, Alexander T., Philadelphia, Pa. Safety-razor. No. 1,395,159; Oct. 25.
- Stewart, Alexander T., Philadelphia, assignor to The Scientific Specialty Company, Pittsburgh, Pa. Fruit or vegetable masher. No. 1,398,473; Nov. 29.
- Stewart, Alexander W., Glasgow, Scotland. System of ventilation. No. 1,391,216; Sept. 20; v. 290; p. 488.
- Stewart, Alexander W., Glasgow, Scotland. System of ventilation. No. 1,391,217; Sept. 20; v. 290; p. 488.
- Stewart, Alfred C., Los Angeles, Calif. Carbureter. No. 1,389,016; Aug. 30; v. 289; p. 841.
- Stewart, Alfred C., Los Angeles, Calif. Reciprocating engine. No. 1,389,017; Aug. 30; v. 289; p. 841.
- Stewart, Amon L., Port Arthur, Tex. Rail-joint. No. 1,366,845; Jan. 25; v. 282; p. 672.
- Stewart, Archibald D., Toronto, Ontario, Canada. Rudder attachment for boats. No. 1,382,809; June 28; v. 287; p. 637.
- Stewart, Arthur L.; E. W. Bullock, and S. H. Earl, assignors to Gleason Works, Rochester, N. Y. Tool mechanism for gear-cutting machines. No. 1,378,629; May 17; v. 286; p. 539.
- Stewart, Arthur L., E. W. Bullock, and S. H. Earl, assignors to Gleason Works, Rochester, N. Y. Gear-cutting machine. No. 1,380,937; June 7; v. 287; p. 117.
- Stewart, Arthur L., and E. C. Head, assignors to Gleason Works, Rochester, N. Y. Gear-planing machine. No. 1,394,586; Oct. 25.
- Stewart, Barnard J. (See Nelson, Virgil H., assignor.)
- Stewart, Benjamin, Des Moines, Iowa. Glove and mitten structure. No. 1,396,539; Nov. 8.
- Stewart, Carlton D. (See Down, S. G., and Stewart.)
- Stewart, Carlton D., Berkeley, assignor to Associated Engineering and Supply Company, San Francisco, Calif. Automatic fuel-stoking apparatus. No. 1,378,385; May 17; v. 286; p. 492.
- Stewart, Carlton D., Berkeley, assignor to Associated Engineering and Supply Company, San Francisco, Calif. Regulating apparatus for liquid-fuel burners. No. 1,400,636; Dec. 20.
- Stewart, Charles A., Highlands, N. Y. Crate. No. 1,373,271; Mar. 29; v. 284; p. 884.
- Steward, Charles C., Detroit, Mich. Wrench. No. 1,364,214; Jan. 4; v. 282; p. 32.
- Steward, Charles C., Stoddard, Ariz. Wrench. No. 1,392,238; Sept. 27; v. 290; p. 768.
- Stewart, Charles P., Manila, Philippine Islands. Decortivating-machine. No. 1,374,407; Apr. 12; v. 285; p. 240.
- Stewart, Charles T., Scotch Plains, N. J. Game device. No. 1,399,818; Dec. 13.
- Stewart, Claude A. W., Sydney, New South Wales, Australia. Case-hardening preparation. No. 1,379,319; May 24; v. 286; p. 743.
- Stewart Dickson and Company. (See Peters, George A., Jr., assignor.)
- Stewart, Ernest, et al. (See Ziegler, George J., assignor.)
- Stewart, Frank C., Springfield, Mo. Antifrost device. No. 1,394,648; Oct. 25.
- Stewart, Frank H., Elkins Park, Pa. Woven fabric and making same. No. 1,368,213; Feb. 8; v. 283; p. 317.
- Stewart, Frank H., Elkins Park, Pa. Woven fabric. No. 1,368,214; Feb. 8; v. 283; p. 318.
- Stewart, Frank H., Elkins Park, Pa. Woven fabric. No. 1,368,215; Feb. 8; v. 283; p. 318.
- Stewart, George W., Weehawken, N. J. Sheet packing. No. 1,370,234; Mar. 1; v. 284; p. 91.
- Stewart, George W., Weehawken, N. J. Packing. No. 1,381,942; June 21; v. 287; p. 419.
- Stewart, Gertrude F. (See Stewart, Perez M., assignor.)
- Stewart, Harry. (See Holder, F. J., and Stewart.)
- Stewart, Homer, Winslow, Ill. Seat for agricultural machines. No. 1,370,235; Mar. 1; v. 284; p. 91.
- Stewart, Isabella J. (See Hart, Eady, assignor.)
- Stewart, James, & Company, et al. (See Budd, Thomas D., assignor.)
- Stewart, James G., Dundee, Scotland. Means for producing magnifications of minute movements. No. 1,392,239; Sept. 27; v. 290; p. 768.
- Stewart, James R., Minneapolis, Minn. Weed-killer. No. 1,399,529; Dec. 6.
- Stewart, John H., Cincinnati, Ohio. Aeroplane. No. 1,398,750; Nov. 29.
- Stewart, Keith, Calcutta, British India. Cop-winding attachment for spinning-frames. No. 1,400,009; Dec. 13.
- Stewart, Norman G., Flint, Mich. Cigarette-case. No. 1,388,073; Aug. 16; v. 289; p. 542.
- Stewart, Norris D., San Antonio, Tex. Machine for translating rotary into reciprocating movements. No. 1,384,360; July 12; v. 288; p. 278.
- Stewart, Ora E., and M. K. Combine, Columbus, Ohio. Socket-wrench. No. 1,388,979; Aug. 30; v. 289; p. 833.
- Stewart, Paul, Manville, Wyo. Adjustable wagon-skein. No. 1,400,385; Dec. 13.
- Stewart, Perez M., assignor to G. F. Stewart, New York, N. Y. Building construction. No. 1,380,432; June 7; v. 287; p. 20.
- Stewart, Ralph E., Los Angeles, and H. H. Hammerstrom, Sierra Madre, Calif. Leak-indicator for tire-valves. No. 1,388,443; Aug. 23; v. 289; p. 674.
- Stewart, Reid T., Pittsburgh, Pa. Fuel supply system for internal-combustion engines. No. 1,399,530; Dec. 6.
- Stewart, Robert F., Sioux Lookout, Ontario, Canada. Signal. No. 1,371,127; Mar. 8; v. 284; p. 306.
- Stewart, Robert H., Greensboro, N. C., assignor to R. H. S. Motors, Incorporated. Rotary gas engine or motor. No. 1,394,587; Oct. 25.
- Stewart-Warner Speedometer Corporation. (See Burton, Charles S., assignor.)
- Stewart-Warner Speedometer Corporation. (See Duffy, Thomas I., assignor.)
- Stewart-Warner Speedometer Corporation. (See Edwards, William A., assignor.)
- Stewart-Warner Speedometer Corporation. (See Genn, John E., assignor.)
- Stewart-Warner Speedometer Corporation. (See Goetz, Oscar H., assignor.)
- Stewart-Warner Speedometer Company. (See Hunter, George E., assignor.)
- Stewart-Warner Speedometer Corporation. (See McIver, William K., assignor.)
- Stewart-Warner Speedometer Corporation. (See Risinger, Frank V., assignor.)
- Stewart-Warner Speedometer Corp. (See Whittington, Frederick G., assignor.)
- Stewart-Warner Speedometer Corporation. (See Wood, Andrew C., assignor.)
- Stewart, William, Newark, N. J. Lifeboat or raft. No. 1,390,935; Sept. 13; v. 290; p. 369.
- Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,364,215; Jan. 4; v. 282; p. 33.
- Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sole-locating device. No. 1,372,104; Mar. 22; v. 284; p. 614.
- Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Locking device. No. 1,377,290; May 10; v. 286; p. 230.
- Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Skiving-machine. No. 1,382,689; June 28; v. 287; p. 614.
- Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,382,751; June 28; v. 287; p. 626.
- Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for preparing soles. No. 1,391,426; Sept. 20; v. 290; p. 531.



## Alphabetical list of patentees—Continued.

- Stewart, William C., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-feeding mechanism. No. 1,398,346; Nov. 29.
- Stewart, William E., Providence, R. I., assignor to Revere Rubber Company. Automatic take-up attachment. No. 1,381,249; June 14; v. 287; p. 229.
- Stewart, William J., Philadelphia, Pa. Landing stage or station for aircraft. No. 1,395,612; Nov. 1.
- Stiasny, Frank H., *et al.* (See Scheibler, August, assignor.)
- Stibbe, Godfrey, Leicester, England. Knitted fabric and producing the same. No. 1,386,444; Aug. 2; v. 289; p. 94.
- Stibbe, Godfrey, Leicester, England. Dial and cylinder knitting-machine. No. 1,388,781; Aug. 23; v. 289; p. 739.
- Stice, Fred W., Eagle Grove, Ia. Vending-machine. No. 1,372,841; Mar. 29; v. 284; p. 798.
- Stice, Fred W., Tama, Iowa. Coin-controlled mechanism. No. 1,396,385; Nov. 8.
- Stice, Fred W., and J. H. Stice, Tama, Iowa. Vending-machine. No. 1,398,283; Nov. 29.
- Stice, Jesse H. (See Stice, Fred W. and J. H.)
- Stich, Charles F., assignor to The Johns Machine and Stamping Works Company, Cleveland, Ohio. Wagon. No. 1,391,083; Sept. 20; v. 290; p. 461.
- Stickel, Charles W., Rochester, assignor to Good Luck Tire & Rubber Co., Buffalo, N. Y. Tire-molding apparatus. No. 1,376,123; Apr. 26; v. 285; p. 664.
- Stickel, Frederick, Chicago, Ill. Pump. No. 1,384,218; July 12; v. 288; p. 248.
- Stickels, Jesse M., Milwaukee, Wis. Ice-cream-brick-packing machine. No. 1,382,141; June 21; v. 287; p. 455.
- Stickle, Cole, Indianapolis, Ind. Steam-pressure regulator. No. 1,378,630; May 17; v. 286; p. 539.
- Stickle, Frederick A., assignor, by mesne assignments, to The Lunken Window Company, Cincinnati, Ohio. Wire-screen-stretching device. No. 1,395,613; Nov. 1.
- Stickle, Frederick A., assignor to E. H. Lunken, Cincinnati, Ohio. Weather-strip. No. 1,398,284; Nov. 29.
- Stickley, Lloyd W. (See Heylman, E. M., Kingsbury, and Stickley.)
- Stickney, Benjamin R., Washington, D. C. Web intaglio-printing press. No. 1,378,386; May 17; v. 286; p. 492.
- Stickney, Burnham C. (See Wernery, Lester A., assignor.)
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,364,651; Jan. 4; v. 282; p. 116.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,369,141; Feb. 22; v. 283; p. 585.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,370,236; Mar. 1; v. 284; p. 91.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,370,237; Mar. 1; v. 284; p. 91.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,370,238; Mar. 1; v. 284; p. 92.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,370,239; Mar. 1; v. 284; p. 92.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Stencil-machine. No. 1,370,240; Mar. 1; v. 284; p. 92.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,381,895; June 14; v. 287; p. 351.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,386,379; Aug. 2; v. 289; p. 82.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,392,975; Oct. 11.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,395,458; Nov. 1.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,396,348; Nov. 8.
- Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,398,048; Nov. 22.
- Sticky-Fruit Packaging Machine Company. (See Langer, Gotthold L., assignor.)
- Stidham, Charles L., Gravois Mills, assignor of one-half to W. Well, Versailles, Mo. Wrench. No. 1,395,933; Nov. 1.
- Stidworthy, William M., Hackettstown, N. J. Device for forming eyes in metal strips. No. 1,387,020; Aug. 9; v. 289; p. 282.
- Stiefel, Ralph C., Elwood City, Pa. Tube-rolling mechanism. No. 1,368,413; Feb. 15; v. 283; p. 404.
- Stieper, Richard F., West Side, Iowa. Combined planter and fender for cultivators. No. 1,379,842; May 31; v. 286; p. 915.
- Stifel, Herman, *et al.* (See Hachmann, Frederick, assignor.)
- Stiff, Henry C. (See Brown, W. M., Entwisle, and Stiff.)
- Stiglitz, John W., San Jose, Calif. Dispensing apparatus. No. 1,379,291; May 24; v. 286; p. 737.
- Stiglitz, William H., Louisville, Ky. Drain-cock-operating device. No. 1,396,540; Nov. 8.
- Stiles, Edward M., Mount Pleasant, Iowa, assignor to U. S. Slicing Machine Company, Laporte, Ind. Holder for slicing-machines. No. 1,400,698; Dec. 20.
- Stiles, Frank I., Coconut Grove, Fla. Stamping-machine. No. 1,369,570; Feb. 22; v. 283; p. 668.
- Stiles, Frank I., Coconut Grove, Fla. Boat. No. 1,371,986; Mar. 15; v. 284; p. 535.
- Stiles, Fred M., Norristown, Pa. Ladder-hook. No. 1,393,048; Oct. 11.
- Stiles, John C., *et al.* (See Grinham, Frederick, assignor.)
- Stilgenbauer, Fred M., Shepherd, Mich. Tractor. No. 1,390,936; Sept. 13; v. 290; p. 369.
- Stillesen, Job M. A., Niagara Falls, N. Y. Lime-nitrogen process and product. No. 1,386,445; Aug. 2; v. 289; p. 94.
- Stillman, Frederick O. (See Hayward, C. R., Schleicher, and Stillman.)
- Stillman, Frederick O., Melrose, and H. M. Schleicher, Boston, Mass. Slide-rule. No. 1,364,154; Jan. 4; v. 282; p. 21.
- Stillwagon, George B., Redstone township, Fayette county, Pa. Commercial instrument. No. 1,389,849; Sept. 6; v. 290; p. 58.
- Stillwell, Elting C. (See Conley, A. D., and Stillwell.)
- Stillwell, Samuel F., Grafton, W. Va. Rail-joint. No. 1,401,827; Dec. 27.
- Stillwell, Stephen A., Lebanon, Ohio. Advertising novelty. No. 1,374,687; Apr. 12; v. 285; p. 294.
- Stimmel, Frederick C., assignor to The Casey-Hedges Co., Chattanooga, Tenn. Grate-bar. No. 1,370,241; Mar. 1; v. 284; p. 93.
- Stimmel, Martin M., San Francisco, Calif. Testing-block. No. 1,367,285; Feb. 1; v. 283; p. 80.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Thread-cutting temple for looms. No. 1,366,034; Jan. 18; v. 282; p. 468.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,380,938; June 7; v. 287; p. 117.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,380,939; June 7; v. 287; p. 118.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Welt feeler-tip for looms. No. 1,380,940; June 7; v. 287; p. 118.
- Stimpson, Walter F., Detroit, Mich. Computing-scale. No. 1,367,213; Feb. 1; v. 283; p. 66.
- Stimpson, Walter F., Detroit, Mich. Computing-scale. No. 1,392,976; Oct. 11.
- Stimson, Claude J., Brunswick, Ga., assignor of one-half to H. R. Van Deventer, Sumter, S. C. Printing and calculating machine. No. 1,397,559; Nov. 22.
- Stinchfield, Ray L., assignor to Eastman Kodak Company, Rochester, N. Y. Color photography. No. 1,364,958; Jan. 11; v. 282; p. 220.
- Stinchfield, Ray L., assignor to Eastman Kodak Company, Rochester, N. Y. Element for use in color photography. No. 1,364,959; Jan. 11; v. 282; p. 220.
- Stine, Charles M., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Making explosive compounds and product thereof. No. 1,370,067; Mar. 1; v. 284; p. 59.
- Stine, Charles M. A., and J. L. Gilson, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing picric acid. No. 1,393,714; Oct. 11.
- Stine, Charles W., assignor to The Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Gaseous-fuel burner. No. 1,372,724; Mar. 29; v. 284; p. 774.
- Stine, George R., Los Angeles, Calif. Folding furniture. No. 1,367,437; Feb. 1; v. 283; p. 110.
- Stine, Robert J., Eagle Grove, Iowa. Hide-cleaning tool. No. 1,383,873; July 5; v. 288; p. 127.
- Stine, Ruby P., Greensburg, Ind. Water-bed fence. No. 1,399,819; Dec. 13.
- Stinehart, Charles E., Indianapolis, Ind. Fiber knee-control stop for above-knee amputations. No. 1,365,205; Jan. 11; v. 282; p. 267.
- Stines, Edward H. (See Potter, W. C., and Stines.)
- Stines, Edward H., and W. C. Potter, New Brunswick, N. J. Arm for knitting-machines. No. 1,399,278; Dec. 6.
- Stines, Fred, Newton, Iowa. Saw-guard. No. 1,374,331; Apr. 12; v. 285; p. 225.
- Stinger, Joseph E., assignor to Dawson Manufacturing Company, St. Louis, Mo. Loose-leaf holder. No. 1,370,852; Mar. 8; v. 284; p. 254.
- Stinson, Herman B., Norman, Okla. Emergency-spur for vehicle-wheels. No. 1,397,186; Nov. 15.
- Stirris, Jacob, New York, N. Y. Envelop-making machine. No. 1,371,270; Mar. 15; v. 284; p. 396.
- Stirk, John H., Gravelly Hill, near Birmingham, England. Splash-guard for wheels of motor-vehicles. No. 1,400,010; Dec. 13.



*Alphabetical list of patentees—Continued.*

- Stirling, Charles P., assignor to Cott-a-lap Co., Somerville, N. J. Continuous printing by lithography. No. 1,398,808; Nov. 29.
- Stirling, Clarence C., Hartford, Conn. Rheostat. No. 1,374,332; Apr. 12; v. 285; p. 225.
- Stirling, Clarence C., Hartford, Conn. Electric switch. No. 1,377,639; May 10; v. 286; p. 297.
- Stirling, Clarence C., Hartford, Conn. Electric switch. No. 1,383,349; July 5; v. 288; p. 19.
- Stirling, Clarence C., assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,384,810; July 19; v. 288; p. 452.
- Stirling, Robert, East Chicago, Ind. Closure. No. 1,393,847; Oct. 18.
- Stirton, James W., Detroit, Mich. Gas-engine manifold. No. 1,373,459; Apr. 5; v. 285; p. 15.
- Stites, James H., Detroit, Mich. Fireplace. No. 1,400,329; Dec. 13.
- Stitzer, David. (See Stitzer, Oscar B., assignor.)
- Stitzer, Oscar B., assignor to one-half to D. Stitzer, Louisville, Ky. Support. No. 1,380,121; May 31; v. 286; p. 968.
- Stivers, George M., Dixon, Calif. Armored pneumatic tire. No. 1,399,324; Dec. 6.
- Stobart, Henry J. S. (See Lamplough, F. E., and Stobart.)
- Stoch, Jan, Uniontown, Pa. Fastener for adjustable windows. No. 1,392,606; Oct. 4.
- Stock Quotation Telegraph Company. (See Hiltz, George S., assignor.)
- Stock, Robert, Sandusky, Ohio. Bottle-cap. No. 1,372,322; Mar. 22; v. 284; p. 657.
- Stock, Robert, Sandusky, Ohio. Bottle-cap. No. 1,376,477; May 3; v. 286; p. 19.
- Stock, Robert, Sandusky, Ohio. Bottle-cap. No. 1,376,478; May 3; v. 286; p. 19.
- Stock, Robert, Sandusky, Ohio. Pneumatic tire. No. 1,395,614; Nov. 1.
- Stock, Robert, Sandusky, Ohio. Vehicle-wheel. No. 1,395,615; Nov. 1.
- Stock, Robert, Sandusky, Ohio. Bottle-cap. No. 1,400,918; Dec. 20.
- Stock, Robert, Sandusky, Ohio. Vehicle-wheel. No. 1,400,919; Dec. 20.
- Stockbridge, David F., Oklahoma, Okla. Concrete lintel. No. 1,364,216; Jan. 4; v. 282; p. 33.
- Stockdale, Fairbank B., Brooklyn, N. Y., and H. A. Simpson, Ocean Grove, N. J. Self-starter. No. 1,386,139; Aug. 2; v. 289; p. 35.
- Stockel, Hans C. (See Rouse, S. A., and Stockel.)
- Stockel, Hans C., Chicago, Ill. Armored liner for tires. No. 1,382,665; June 21; v. 287; p. 536.
- Stockelbach, Frits E., assignor to Commonwealth Chemical Corporation, New York, N. Y. Colloiding carbohydrate esters and products thereof. No. 1,370,853; Mar. 8; v. 284; p. 254.
- Stocker, James M., Atlanta, Ga. Heating-tank. No. 1,394,692; Oct. 25.
- Stocker, Louis, Stithton, Ky. Yarn-winding machine. No. 1,389,392; Aug. 30; v. 289; p. 915.
- Stockfeth, John, Crockett, Calif. Sheet-piling construction. No. 1,371,709; Mar. 15; v. 284; p. 483.
- Stockham, William G., Piqua, Ohio. Railway-crossing. No. 1,380,433; June 7; v. 287; p. 20.
- Stockham, William G., Piqua, Ohio. Armor for vehicle-tires. No. 1,385,159; July 19; v. 288; p. 525.
- Stockholder, John H., New Orleans, La. Sleeve-valve. No. 1,385,401; July 26; v. 288; p. 649.
- Stockland, Arthur, Minneapolis, Minn. Screw-cap wrench. No. 1,396,298; Nov. 8.
- Stocksick, Otto. (See Biesmeyer, L. F., and Stocksick.)
- Stockstrom, Louis, assignor to American Stove Company, St. Louis, Mo. Oil-stove wick-tube. No. 1,369,201; Feb. 22; v. 283; p. 597.
- Stockwell, Austin F., Los Angeles, Calif. Antiderailing railway-track. No. 1,387,872; Aug. 16; v. 289; p. 503.
- Stockwell, Myron H., Geneva, N. Y. Daylight developing and fixing apparatus for roll-films. No. 1,395,160; Oct. 25.
- Stockton, Frank W., Pittsburgh, Pa. Food product. No. 1,395,934; Nov. 1.
- Stockton, William H., Ashtabula, Ohio. Auto-light control. No. 1,390,937; Sept. 13; v. 290; p. 369.
- Stocum, Philip W. (See Hotchkiss, L. A., and Stocum.)
- Stoddard, Charles F., New York, N. Y. Perforated music-sheet. No. 1,367,633; Feb. 8; v. 283; p. 206.
- Stoddard, Charles F., New York, N. Y. Recording music. No. 1,367,634; Feb. 8; v. 283; p. 206.
- Stoddard, Charles F., Boston, Mass. Making note-sheets for musical instruments. No. 1,370,614; Mar. 8; v. 284; p. 208.
- Stoddard, Charles F., New York, N. Y. Note-sheet-perforating machine. No. 1,400,242; Dec. 13.
- Stoddard, George P. (See Carroll, A. W., and Stoddard.)
- Stoddard, Harry A., and F. E. Callahan, Columbus, Ohio; said Stoddard assignor to said Callahan. Vegetable-cutter. No. 1,395,369; Nov. 1.
- Stoddard, Leon B., Baker, Oreg. Loose-leaf binder. No. 1,401,566; Dec. 27.
- Stoddard, Ray F., Dayton, Ohio. Electric display. No. 1,378,495; May 17; v. 286; p. 513.
- Stoddard, William B. (See Ekeley, J. B., and Stoddard.)
- Stodden, George, Stratford, Conn., assignor to American Chain Company, Inc. Lifting-jack. No. 1,377,640; May 10; v. 286; p. 297.
- Stoehrer, Harold. (See Stoehrer, Max and H.)
- Stoehrer, Max and H., Methuen, assignors to Stoehrer & Pratt Dodgen Corporation, Lawrence, Mass. Amusement apparatus. No. 1,373,108; Mar. 29; v. 284; p. 851.
- Stoehrer & Pratt Dodgen Corporation. (See Stoehrer, Max and H., assignors.)
- Stoeckle, Erwin R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Regulator for alternating currents. No. 1,376,978; May 3; v. 286; p. 114.
- Stoetzel, Joseph J., assignor to one-fourth to P. F. Clausen and one-fourth to F. Novak, Chicago, Ill. Regulating mechanism for pneumatic carrier systems. No. 1,385,727; July 26; v. 288; p. 717.
- Stoewsand, Charles F., *et al.* (See Stoewsand, Charles F., assignor.)
- Stoewsand, Charles F., assignor to W. Kargus, L. Cleppe, and C. F. Stoewsand, Chicago, Ill. Shaving-brush. No. 1,392,369; Oct. 4.
- Stoffers, Henry, Newark, N. J. Making piston-rings. No. 1,392,027; Sept. 27; v. 290; p. 727.
- Stogner, John R., Lancaster, S. C. Ice-hook. No. 1,398,809; Nov. 29.
- Stogner, John R., Lancaster, S. C. Ice-hook. No. 1,401,008; Dec. 20.
- Stohr, Franz, Vienna, Austria. Manufacturing ferruginous preparations. No. 1,393,049; Oct. 11.
- Stoker, Robert H., Houston, Ohio. Pump. No. 1,399,669; Dec. 6.
- Stokes, Charles L., New York, N. Y. Apparatus for silencing and exhausting gases and method therefor. No. 1,382,690; June 28; v. 287; p. 614.
- Stokes, Harlow T., Brooklyn, N. Y. Hydroaeroplane. No. 1,378,387; May 17; v. 286; p. 492.
- Stokes, Henry C., Sumter, S. C. Attachment-lever for brake staves and wheels. No. 1,375,238; Apr. 19; v. 285; p. 463.
- Stokes, Henry C., Sumter, S. C. Railway journal-box. No. 1,375,239; Apr. 19; v. 285; p. 463.
- Stokes, Henry C., Sumter, S. C. Air-brake safety appliance. No. 1,385,160; July 19; v. 288; p. 525.
- Stokes, Henry H. (See Radloff, E., and Stokes.)
- Stokes, J. Stogdell. (See Novotny, Emil E., assignor.)
- Stokes, John C., Shreveport, La. Drill and underreamer. No. 1,379,483; May 24; v. 286; p. 774.
- Stokes, John S. (See Novotny, E. E., and Kendall, assignors.)
- Stokes, John S. (See Novotny, Emil E., assignor.)
- Stokes, John S. (See Yoell, William J., assignor.)
- Stokes, John S., Moorestown, N. J., assignor to Stokes & Smith Company, Summerdale, Philadelphia, Pa. Sealed-wrapped package. No. 1,382,752; June 28; v. 287; p. 626.
- Stokes, Joseph, Rubber Company. (See Boyer, Harry L., assignor.)
- Stokes, Robert J., Trenton, assignor to Thermoid Rubber Company, Hamilton township, N. J. Flexible disc-coupling. No. 1,398,163; Nov. 22.
- Stokes & Smith Company. (See Fogde, M., and Southwick, assignors.)
- Stokes & Smith Company. (See Fogde, M., and Southwick, assignors.) (Reissue.)
- Stokes and Smith Company. (See Nitch, Charles H., assignor.)
- Stokes & Smith Company. (See Stokes, John S., assignor.)
- Stokes & Smith Company. (See Tauscher, John, assignor.)
- Stokes and Smith Company. (See Weightman, W. A., and Nitsch, assignors.)
- Stokes, William H., Coventry, assignor to Courtaulds, Limited, London, England. Bobbin. No. 1,368,069; Feb. 8; v. 283; p. 289.
- Stokke, Fred O., Havre, Mont. Automatic pistol. No. 1,365,743; Jan. 18; v. 282; p. 411.
- Stokoe, Ashley M., St. Paul, Minn. Apparatus for sorting clothing and other articles. No. 1,388,385; Aug. 23; v. 289; p. 616.
- Stolakiss, Christos A., Boston, Mass. Wrench. No. 1,383,672; July 5; v. 288; p. 86.
- Stolberg, Otto H., San Francisco, Calif. Electric safety-lock. No. 1,373,200; May 17; v. 286; p. 457.
- Stoler, Warren W., Detroit, Mich. Drop-hammer. No. 1,380,326; May 31; v. 286; p. 1007.
- Stoll, Arthur, assignor to Chemical Works, formerly Sandoz, Basel, Switzerland. Highly-active preparation of ergot and making same. No. 1,394,233; Oct. 18.
- Stoll, August C., Ann Arbor, Mich. Spigot. No. 1,381,598; June 14; v. 287; p. 293.
- Stoll, Frank A., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Valve-handle. No. 1,388,316; Aug. 23; v. 289; p. 648.
- Stoll, Frank M., Denver, Colo. Camp-stool. No. 1,390,836; Sept. 13; v. 290; p. 348.
- Stoll, George W., and G. H. Drechsel, Indianapolis, Ind. Device for attaching table-legs. No. 1,386,739; Aug. 9; v. 289; p. 225.
- Stoll, John J. (See Perry, Searal M., assignor.)
- Stolle, Herman C., Davenport, Iowa. Elevator and holder for railway sleepers or ties. No. 1,389,393; Aug. 30; v. 289; p. 915.
- Stolle, Raymond A. (See Heinlein, E. A., and Stolle.)
- Stolley, William A., assignor to James Heddon's Sons Inc., Dowagiac, Mich. Artificial bait. No. 1,376,590; May 3; v. 286; p. 40.



## Alphabetical list of patentees—Continued.

- Stolp Co., Inc. (See Stolp, Frank H., assignor.)  
 Stolp, Frank H., assignor to Stolp Co., Inc., Geneva, N. Y. Tube-making machine. No. 1,388,903; Aug. 30; v. 289; p. 818.
- Stolp, Oscar, New York, N. Y. Gate. No. 1,367,928; Feb. 8; v. 283; p. 263.
- Stolte, Florence P. (See Doyle, William F., assignor.)  
 Stoltenberg, Adolf, New York, N. Y. Vegetable-cutting machine. No. 1,369,202; Feb. 22; v. 283; p. 597.
- Stoltz, John E., Charleston, Wash. Indicating and attaching device for sunken ships. No. 1,384,412; July 12; v. 288; p. 288.
- Stoltz, Melville, St. Louis, Mo. Toy bank. No. 1,368,414; Feb. 15; v. 283; p. 404.
- Stolz, Otto G., Chicago, Ill. Film-splicing device. No. 1,396,895; Nov. 15.
- Stommel, Hugo, Elberon, assignor of one-half to A. Staudt, Perth Amboy, N. J. Friction-gear press. No. 1,366,970; Feb. 1; v. 283; p. 18.
- Stommel, Hugo, assignor of one-half to H. Raymond, Metuchen, N. J. Pneumatic-tire nipple. No. 1,376,048; Apr. 26; v. 285; p. 649.
- Stone, Albert F., Montclair, N. J. Easel display-box. No. 1,366,333; Jan. 18; v. 282; p. 527.
- Stone, Albert H., Boston, Mass. Making depilatory for hides and skins. No. 1,394,588; Oct. 25.
- Stone, Andrew H., Kansas City, Mo. Extension-table. No. 1,398,665; Nov. 22.
- Stone, Andrew J., Washington, D. C., assignor to the Government of the United States. Method of and apparatus for delivering torpedo attacks from aircraft. No. 1,379,788; May 31; v. 286; p. 905.
- Stone, Avon L. (See Stone, John M. and A. L.)  
 Stone, Byron A., Long Beach, Calif. Cutting-tool. No. 1,368,070; Feb. 8; v. 283; p. 289.
- Stone, Charles, Detroit, Mich. Gear-wheel. No. 1,394,127; Oct. 18.
- Stone, Charles H., Freeport, Ill. Rotary toothbrush. No. 1,388,074; Aug. 16; v. 289; p. 542.
- Stone, Charles W., and H. M. Hobart, Schenectady, N. Y., assignors to General Electric Company. Electricity transforming and converting apparatus. No. 1,385,895; July 26; v. 288; p. 750.
- Stone, Clayton E. (See Dutton, W. H., and Stone.)  
 Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Terminal for electrical purposes. No. 1,378,201; May 17; v. 286; p. 457.
- Stone, Frank, Slater, Mo. Lubricator. No. 1,393,584; Oct. 11.
- Stone, Frank O. E., Akron, Ohio. Vulcanizing rubber. No. 1,368,071; Feb. 8; v. 283; p. 289.
- Stone, Frank V., *et al.*, trustees. (See Waterhouse, Harold D., assignor.)  
 Stone, Harry A., Brockton, Mass. Nail-delivering machine. No. 1,372,255; Mar. 22; v. 284; p. 644.
- Stone, Harry W. (See Drane, M., and Stone.)  
 Stone, Herbert C., Brooklyn, N. Y. Vehicle loading and unloading device. No. 1,378,631; May 17; v. 286; p. 539.
- Stone, Horace G., Chicago, Ill. Propelling-wheel for tractors and other vehicles. No. 1,399,413; Dec. 6.
- Stone, J. & Company. (See Rohman, Harry D., assignor.)  
 Stone, John M. and A. L., assignors to Gravity Grain Grader Company, Stockton, Calif. Rotary screen. No. 1,373,841; Apr. 5; v. 285; p. 90.
- Stone, Lawrence P., Newark, Ohio. Direction-indicator. No. 1,366,846; Jan. 25; v. 282; p. 672.
- Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,369,484; Feb. 22; v. 283; p. 651.
- Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing-loom bobbin-separator. No. 1,369,485; Feb. 22; v. 283; p. 651.
- Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Filling-replenishing loom. No. 1,369,486; Feb. 22; v. 283; p. 652.
- Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,369,487; Feb. 22; v. 283; p. 652.
- Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,369,488; Feb. 22; v. 283; p. 652.
- Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,369,489; Feb. 22; v. 283; p. 652.
- Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,369,490; Feb. 22; v. 283; p. 652.
- Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,378,913; May 24; v. 286; p. 666.
- Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,378,914; May 24; v. 286; p. 666.
- Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,378,915; May 24; v. 286; p. 665.
- Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,378,916; May 24; v. 286; p. 665.
- Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,378,917; May 24; v. 286; p. 667.
- Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Filling-catcher for looms. No. 1,383,874; July 5; v. 288; p. 128.
- Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. No. 1,388,212; Aug. 23; v. 289; p. 626.
- Stone, Morris J., St. Louis, Mo. Phonograph. No. 1,393,919; Oct. 18.
- Stone, Reuben, Ogema, Wis. Envelop-ejector. No. 1,390,175; Sept. 6; v. 290; p. 124.
- Stone, Reuben, assignor of one-half to O. V. Soderstrom, Ogema, Wis. Lawn-mower sharpener. No. 1,391,702; Sept. 27; v. 290; p. 660.
- Stone, Robert A., Barrington, N. J. Jeweler's exhibition-tweezer. No. 1,382,867; June 28; v. 287; p. 648.
- Stone, S. P., Co., The. (See Killits, Morris J., assignor.)  
 Stone, Walter R., Inman, S. C. Evener-gear attachment for cotton-pickers. No. 1,391,866; Sept. 27; v. 290; p. 693.
- Stone, Warren M., Camden, N. J. Flexible drive connecting device. No. 1,385,803; July 26; v. 288; p. 732.
- Stone, William H., Port Angeles, Wash. Air-cooler. No. 1,391,592; Sept. 20; v. 290; p. 564.
- Stone, William L., Kansas City, Mo., assignor to Great Western Commercial Body Company, Omaha, Nebr. Adjustable and removable truck-platform. No. 1,382,328; June 21; v. 287; p. 491.
- Stoneback, Samuel A., Philadelphia, Pa. Fuel-reclaiming apparatus. No. 1,389,394; Aug. 30; v. 289; p. 916.
- Stoner, Charles A., Toledo, Ohio. Pulley. No. 1,392,717; Oct. 4.
- Stoner, Elmer E., Stroudsburg, Pa. Ice-cutting machine. No. 1,374,777; Apr. 12; v. 285; p. 311.
- Stoner, Forest D., Valparaiso, Ind. Aeroplane. No. 1,365,562; Jan. 11; v. 282; p. 336.
- Stoner, Peter W., Pasadena, Calif. Exposure-meter and finder for cameras. No. 1,387,811; Aug. 16; v. 289; p. 491.
- Stoner, William, Fresno, Calif. Raisin-cleaner. No. 1,384,494; July 12; v. 288; p. 305.
- Stonestreet, Clarence G., Akron, Ohio. Umbrella. No. 1,397,789; Nov. 22.
- Stoney, John T., Cleveland, Ohio. Making molds. No. 1,371,271; Mar. 15; v. 284; p. 396.
- Stonge, Harvey E., assignor to G. D. O'Grady, Toronto, Ontario, Canada. Necktie-form. No. 1,386,140; Aug. 2; v. 289; p. 36.
- Stoops, Albert G., Indianapolis, Ind. Well-shooting-torpedo apparatus. No. 1,382,395; June 21; v. 287; p. 504.
- Stoots, John H., Knoxville, Tenn. Seat. No. 1,399,820; Dec. 13.
- Stopper, Frank J., *et al.* (See Faust, Casper, assignor.)  
 Stopple, Walter W., assignor to A. J. Kirstin Company, Escanaba, Mich. Stump-puller. No. 1,380,748; June 7; v. 287; p. 81.
- Storck, August C., St. Louis, Mo. Liquid-fuel burner. No. 1,391,022; Sept. 20; v. 290; p. 448.
- Storck, Frederick W., Somerville, Mass., assignor to Standard Envelope Sealer Manufacturing Company. Envelop-sealing machine. No. 1,365,803; Jan. 18; v. 282; p. 423.
- Storer, Hugh A., Alton, Kans. Magazine attachment for stoves. No. 1,379,484; May 24; v. 286; p. 774.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting device. No. 1,374,534; Apr. 12; v. 285; p. 265.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,374,535; Apr. 12; v. 285; p. 265.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,384,495; July 12; v. 288; p. 305.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for reducing commutator-flashing. No. 1,392,086; Sept. 27; v. 290; p. 737.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for suppressing flash-overs in rotary-converter systems. No. 1,392,087; Sept. 27; v. 290; p. 738.
- Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for reducing commutator-flashing in rotary converters. No. 1,392,088; Sept. 27; v. 290; p. 738.
- Storer, Norman W., and E. E. Hellmund, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of control. No. 1,393,715; Oct. 11.
- Storey, Benton W., Hailey, Idaho. Fencing-grip. No. 1,399,821; Dec. 13.
- Storey, Norman C., Passaic, N. J. Control device for driven members. No. 1,387,208; Aug. 9; v. 289; p. 318.
- Storey, Norman C., Aguirre, Porto Rico, West Indies. Power-transmitting mechanism. No. 1,401,204; Dec. 27.
- Storie, Isaac R., Jamestown, Tenn. Pipe-coupling. No. 1,368,985; Feb. 15; v. 283; p. 514.
- Stork, Franklin B., Rockland, Ill. Traction-wheel. No. 1,373,536; Apr. 5; v. 285; p. 31.
- Stork, Henry A., St. Louis, Mo. Antislip rope and cable clamp. No. 1,390,654; Sept. 13; v. 290; p. 313.
- Storke, John W. (See Wilkins, Thomas M., assignor.)  
 Storle, Ole O., Tacoma, Wash. Automatic stop for gramophones. No. 1,375,120; Apr. 19; v. 285; p. 440.



- Storle, Ole O., Tacoma, Wash. Automatic stop for sound-reproducing machines. No. 1,375,864; Apr. 26; v. 285; p. 614.
- Storm, Adolph, assignor of one-half to O. W. Nelson, Thompson, Iowa. Gage. No. 1,368,072; Feb. 8; v. 283; p. 290.
- Storms, Bernard I., Mason City, Iowa. Nut-lock. No. 1,371,946; Mar. 15; v. 284; p. 527.
- Storms, Jesse B., Lockport, N. Y. Auto-lifter. No. 1,383,169; June 28; v. 287; p. 705.
- Storms, Jordan E., assignor of one-half to The Arthur-Jocelyn Sales Company, Jacksonville, Fla. Diaphragm-horn. No. 1,365,563; Jan. 11; v. 282; p. 337.
- Storrie, William, assignor to Apco Manufacturing Company, Providence, R. I. Crank-case support for automobiles. No. 1,377,857; May 10; v. 286; p. 340.
- Storrie, William, assignor to Apco Manufacturing Company, Providence, R. I. Gas-engine muffler. No. 1,382,810; June 28; v. 287; p. 637.
- Story, Elliott M., Braintree, Mass. Toy. No. 1,379,944; May 31; v. 286; p. 934.
- Story, Fred D., Center Point, Ark. Wagon-spring. No. 1,398,810; Nov. 29.
- Story, Ward B., Brooklyn, assignor to T. W. & C. B. Sheridan Company, New York, N. Y. Bookbinding-machine. No. 1,380,265; May 31; v. 286; p. 995.
- Storz, Charles R., Brooklyn, N. Y. Tonsil-snare. No. 1,366,971; Feb. 1; v. 283; p. 18.
- Stosech, Peter H., Cliffside, N. J. Combination-lock. No. 1,377,737; May 10; v. 286; p. 315.
- Stotler, Frank W., and R. H. Jamison, Wilkesburg, Pa. Nursery-nest. No. 1,374,333; Apr. 12; v. 285; p. 225.
- Stott, Elkanah. (See Payne, S., and Stott.)
- Stott, William, Rochdale, England. Stop-motion for doubling-frames. No. 1,395,529; Nov. 1.
- Stott, William J., Worcester, Mass. Twine-holder. No. 1,398,347; Nov. 29.
- Stottmeister, Louis, New York, N. Y. Vehicle signal device. No. 1,365,744; Jan. 18; v. 282; p. 411.
- Stotts, Elza S., assignor to The Railway Signal & Equipment Company, Des Moines, Iowa. Adjustable wheel-anchor. No. 1,396,076; Nov. 8.
- Stotts, Elza S., assignor to The Railway Signal & Equipment Company, Des Moines, Iowa. Drain-valve trap. No. 1,396,077; Nov. 8.
- Stouffer, Frank A., near St. Joseph, and H. A. England, St. Joseph, Mo. Piston packing-ring. No. 1,369,203; Feb. 22; v. 283; p. 597.
- Stoughton, Bradley, New York, N. Y. Smelting or fusing metallic substances. No. 1,376,479; May 3; v. 286; p. 19.
- Stout, Harry H., Douglas, Ariz., assignor of fifty-five per cent. to Phelps Dodge Corporation. Cleaning converter-slag. No. 1,372,047; Mar. 22; v. 284; p. 604.
- Stout, John H., and L. C. Plater, Scranton, Pa. Dirigible light. No. 1,366,217; Jan. 18; v. 282; p. 504.
- Stout, Wilfred O., St. Paul, Minn. Camera. No. 1,364,462; Jan. 4; v. 282; p. 81.
- Stout, William B., assignor to Packard Motor Car Company, Detroit, Mich. Aircraft. No. 1,377,858; May 10; v. 286; p. 340.
- Stout, William E., Seattle, Wash. Spring-tire. No. 1,385,804; July 26; v. 288; p. 732.
- Stovall, Columbus D., Lexington, Ky. Alloy. No. 1,375,804; Apr. 26; v. 285; p. 602.
- Stovall, Columbus D., Lexington, Ky. Alloy. No. 1,376,656; May 3; v. 286; p. 52.
- Stovall, William M., Clallam Bay, Wash. Saw-set. No. 1,384,575; July 12; v. 288; p. 322.
- Stover-Lang Company. (See Lang, George H., assignor.)
- Stowe, Loyd R., Maplewood, Mo. Grate-chain. No. 1,379,135; May 24; v. 286; p. 708.
- Stowe & Woodward Company. (See Wilkie, Robert J., assignor.)
- Stowell, Augustus H., Spokane, Wash. Wall structure. No. 1,397,708; Nov. 22.
- Stowell, Byron F., assignor, by mesne assignments, to Metal Saw & Machine Co. Inc., Springfield, Mass. Operating device for material-working machines. No. 1,390,469; Sept. 13; v. 290; p. 273.
- Stowell, Edward R., Portland, Ind. Composition of matter for use in the formation of fireproof and insulating structures. No. 1,382,329; June 21; v. 287; p. 491.
- Stowell, Frank C., Medford, Mass. Rail-fastening. No. 1,367,897; Feb. 8; v. 283; p. 257.
- Stowell, Willard. (See Brown, Charles R., assignor.)
- Stoy, William E., Juneau, Alaska. Clutch. No. 1,379,728; May 31; v. 286; p. 894.
- Strachansky, Maurice, *et al.* (See Sundel, Samuel, assignor.)
- Strader, Virgil R., Philippi, W. Va. Suspender. No. 1,388,213; Aug. 23; v. 289; p. 626.
- Strachle, Frederick W., Cleveland, Ohio. Floating-tool holder. No. 1,369,491; Feb. 22; v. 283; p. 653.
- Strahn, Frederick, Lawrence, Kans. Car-seal. No. 1,375,025; Apr. 19; v. 285; p. 422.
- Straight, Halver R., Adel, Iowa. Floor for brick-kilns. No. 1,364,155; Jan. 4; v. 282; p. 21.
- Straight, Halver R., Adel, Iowa. Grain-elevator. No. 1,367,929; Feb. 8; v. 283; p. 263.
- Straight, Merton T., Adel, Iowa. Phonograph-needle. No. 1,398,529; Nov. 29.
- Straightiff, Alexander. (See Forkner, R. F., and Straightiff.)
- Straka, John, assignor of one-half to J. R. Lewis, Chicago, Ill. Fountain-pen. No. 1,392,089; Sept. 27; v. 290; p. 738.
- Stran, George R., Cleveland, Ohio. Fastening means for molds. No. 1,380,434; June 7; v. 287; p. 21.
- Stranahan, James F., Pittsburg, assignor of one-half to J. F. Mora, Pittsburg, Calif. Resilient tire. No. 1,399,670; Dec. 6.
- Strand, Clarence, Gary, Minn. Motor-driven assembling-tool. No. 1,384,811; July 19; v. 288; p. 452.
- Strand, David, assignor, by mesne assignments, to R. W. Glasner, Chicago, Ill. Die-cushion. No. 1,401,371; Dec. 27.
- Strand, John P., St. Paul, Minn. Coat and trousers hanger. No. 1,370,713; Mar. 8; v. 284; p. 228.
- Stranders, Julien, Brooklyn, assignor to H. B. Kruger, New York, N. Y. Display-stand. No. 1,375,026; Apr. 19; v. 285; p. 422.
- Stranders, Julien, assignor to H. B. Kruger, New York, N. Y. Advertising or display device. No. 1,387,209; Aug. 9; v. 289; p. 318.
- Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Gang-plow. No. 1,376,787; May 3; v. 286; p. 77.
- Strandwitz, William J. (See Lund, Alfred V. E., assignor.)
- Strane, Archibald J. (See Hill, R. L., and Strane.) (Re-issue.)
- Strane, Archibald J., Tamaqua, assignor to Atlas Powder Company, Philadelphia, Pa. Press. No. 1,395,530; Nov. 1.
- Strange, Baseum L., Hernando, Fla. Stovepipe-clamp. No. 1,378,143; May 17; v. 286; p. 447.
- Strange, Charles H., Minersville, Pa. Mining self-loading and unloading scraper. No. 1,397,560; Nov. 22.
- Strange, James A., Ellensburg, Wash. Holder for soles. No. 1,384,979; July 19; v. 288; p. 487.
- Strassner, Frank J. (See Fletcher, H., and Strassner.)
- Strater, Julius E., Cleveland, Ohio. Lubricating and cleaning oil. No. 1,369,492; Feb. 22; v. 283; p. 653.
- Strater, Theodore G., Brookline, Mass. Faucet-lock. No. 1,388,532; Aug. 23; v. 289; p. 690.
- Stratford, Herbert R., and E. Scheuer, Cleveland, Ohio. Process and apparatus for manufacturing hollow rubber articles. No. 1,401,567; Dec. 27.
- Stratomeyer, Karl. (See Kästner, A., and Stratomeyer.)
- Stratton, Ezra M., Virginia, Minn. Shears-grinder. No. 1,371,947; Mar. 15; v. 284; p. 527.
- Stratton, Fenton F., East Croydon, England. Treatment of air for internal-combustion-engine carbureters. No. 1,387,021; Aug. 9; v. 289; p. 282.
- Stratton, Harry F., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Stopping apparatus for alternating-current motors. No. 1,364,847; Jan. 4; v. 282; p. 154.
- Stratton, Harry F., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Means for protecting switch-contacts under oil. No. 1,384,025; July 5; v. 288; p. 159.
- Straub, Charles, Chicago, Ill. Bevel-protractor. No. 1,392,607; Oct. 4.
- Straub, Francis J., New Kensington, Pa. Machine for making building-blocks. No. 1,399,325; Dec. 6.
- Straub, Joseph, Rossville, Ga. Flower-box. No. 1,375,333; Apr. 19; v. 285; p. 481.
- Straub, Oscar I. (See Wildrick, Meade, assignor.)
- Straub, Oscar I., Pittsburgh, Pa. Detachable resilient tread for continuous-belt tractors. No. 1,370,379; Mar. 1; v. 284; p. 118.
- Straube Piano Company. (See Betz, William G., assignor.)
- Strauch, David, Crestline, Ohio. Convertible wheeled vehicle. No. 1,382,566; June 21; v. 287; p. 536.
- Straughan, Augustus E. (See Campbell, W. L., and Straughan.)
- Strausbaugh, Charles F., Detroit, Mich. Concrete-wall mold. No. 1,367,438; Feb. 1; v. 283; p. 110.
- Strausbaugh, Charles F., Detroit, Mich. Mold-core. No. 1,371,525; Mar. 15; v. 284; p. 447.
- Strause Gas Iron Co. (See Spahr, Otto, assignor.)
- Strauser, William H., Fairmont, W. Va. Multiple-character stencil. No. 1,380,850; June 7; v. 287; p. 101.
- Strauss, Albert A., New York, N. Y. Machine for mixing flour and other materials. No. 1,394,371; Oct. 18.
- Strauss, Charles H., Cedarhurst, N. Y. Clasp. No. 1,368,665; Feb. 15; v. 283; p. 454.
- Strauss, Charles I., *et al.* (See Opt, Warren N., assignor.)
- Strauss, Edwin W. (See Schneider, Louis J., assignor.)
- Strauss, Emil A., Chicago, Ill. Vault construction. No. 1,376,839; May 3; v. 286; p. 87.
- Strauss, Frank A., Wilkes-Barre, Pa. Production of nitriles and acids. No. 1,367,898; Feb. 8; v. 283; p. 257.
- Strauss, Joseph B., Chicago, Ill. Railway-car. No. 1,390,396; Sept. 13; v. 290; p. 259.
- Strauss, Mortimer I., Cleveland, Ohio. Coating composition and making the same. No. 1,386,380; Aug. 2; v. 289; p. 82.
- Strauss, Samuel, assignor to Los Angeles Trust and Savings Bank, trustee, Los Angeles, Calif. Shoe-machine. No. 1,385,647; July 26; v. 288; p. 700.
- Straw, Bruce P., Cumberland, Md. Draft-rigging. No. 1,376,480; May 3; v. 286; p. 19.



## Alphabetical list of patentees—Continued.

- Strawn, Ervin E., Des Moines, Iowa. Sales-book cover. No. 1,398,530; Nov. 29.
- Strawn, Ervin E., assignor to The Omnigraph Company, Des Moines, Iowa. Printing-plate holder. No. 1,392,896; Oct. 4.
- Strawn, Ervin E., assignor to The Omnigraph Company, Des Moines, Iowa. Paper-cutting device. No. 1,398,474; Nov. 29.
- Strawn, Ervin E., assignor to The Omnigraph Company, Des Moines, Iowa. Printing and ruling machine. No. 1,398,475; Nov. 29.
- Streb, Charles, Rochester, N. Y. Footwear. No. 1,399,822; Dec. 13.
- Strelbel, Louis, New York, N. Y. Motor-valve. No. 1,380,435; June 7; v. 287; p. 21.
- Street, Fred, Philadelphia, Pa. Electric switch. No. 1,369,571; Feb. 22; v. 283; p. 668.
- Street, Norman A., *et al.* (See Blood, Burr B., assignor.)
- Streeter, Amet Weighing & Recording Company. (See Gulbrandsen, Gulbrand, assignor.)
- Streeter, Guy J., and W. O. Lillemoen, Monroe, Wash. Automobile-signal. No. 1,374,964; Apr. 19; v. 285; p. 409.
- Streton, James W. (See Noll, Henry, assignor.)
- Strehlenert, Robert W., Gottenborg, Sweden, assignor to And. H. Klier & Co., Ltd. of Norway, Glemminge, Norway. Treating waste liquor from sulfite-cellulose factories. No. 1,384,219; July 12; v. 288; p. 248.
- Streib, John F., Avalon, assignor to Pressed Steel Car Company, Pittsburgh, Pa. Brake mechanism. No. 1,392,368; Oct. 4.
- Streich, Edward C., *et al.*, trustees. (See Hulbert, Ansel C., assignor.)
- Streich, M. C., *et al.*, trustees. (See Hulbert, Ansel C., assignor.)
- Strick, Frank, assignor to Union Machinery Company, Joliet, Ill. Bucket for proofing apparatus. No. 1,382,610; June 21; v. 287; p. 545.
- Strelinger, Gilbert P., New York, N. Y. Mop. No. 1,383,875; July 5; v. 288; p. 128.
- Stretch, Arthur J., Seattle, Wash. Windshield. No. 1,394,045; Oct. 18.
- Stretch, William F. (See Erwin, W. M., and Stretch.)
- Stretch, William G., Washington, D. C. Robe-clamp. No. 1,376,049; Apr. 26; v. 285; p. 650.
- Stretton, Theodore, assignor to Haslam & Stretton Limited, Cardiff, Wales. Miner's electric safety lamp. No. 1,373,842; Apr. 5; v. 285; p. 90.
- Strickland, Fred, Anderson, S. C. Oil-extracting apparatus. (Reissue.) No. 15,116; May 31; v. 286; p. 1009.
- Strickland, Oliver W. (See Rintoul, W., Nolan, and Strickland.)
- Strickland, Orien S., and G. W. Wood, Portales, N. Mex. Automobile safety-crank. No. 1,379,320; May 24; v. 286; p. 743.
- Strickland, Royal F., Cleveland, Ohio, assignor to General Electric Company. Mounting for incandescent lamps. No. 1,373,920; Apr. 5; v. 285; p. 105.
- Strickland, Silas A., assignor to Detroit Accessories Corporation, Detroit, Mich. Pump for motor-vehicles. No. 1,376,903; May 3; v. 286; p. 100.
- Strickland, William P., Chicago, Ill. Nipple-grip. No. 1,393,920; Oct. 18.
- Strickland, William R., assignor to The Peerless Motor Car Company, Cleveland, Ohio. Internal-combustion engine. No. 1,365,564; Jan. 11; v. 282; p. 337.
- Strickland, William R., assignor to The Peerless Motor Car Company, Cleveland, Ohio. Radiator-closure. No. 1,371,402; Mar. 15; v. 284; p. 423.
- Strickland, William R., assignor to The Peerless Motor Car Company, Cleveland, Ohio. Internal-combustion engine. No. 1,381,516; June 14; v. 287; p. 278.
- Strickland, William R., assignor to The Peerless Motor Car Company, Cleveland, Ohio. Lubricating system for internal-combustion engines. No. 1,384,873; July 19; v. 288; p. 465.
- Strickler, John C., San Francisco, Calif. Can-soldering machine. No. 1,391,867; Sept. 27; v. 290; p. 693.
- Stridinger, Ferdinand, and R. Miller, St. Michael, Pa. Illuminated pencil. No. 1,381,763; June 13; v. 287; p. 325.
- Strieff, George F., Watertown, N. Y. Fountain-sponge. No. 1,367,758; Feb. 8; v. 283; p. 230.
- Striegel, Henry, Wilder, Kans. Soil-pulverizer. No. 1,386,286; Aug. 2; v. 289; p. 64.
- Strietmann's, George H., Sons Co., The. (See Meier, G. A., and Wicher, assignors.)
- Striker, Clarence C. (See Striker, Robert C. and C. C.)
- Striker, Robert C. and C. C., New York, N. Y. Clothes-hanger. No. 1,373,460; Apr. 5; v. 285; p. 15.
- Stringfellow, Bruce W., Culpeper, Va. Aquatic vehicle. No. 1,373,681; Apr. 5; v. 285; p. 58.
- Strite, Charles P., Minneapolis, Minn. Bread-toaster. No. 1,387,670; Aug. 16; v. 289; p. 462.
- Strite, Charles P., Minneapolis, Minn. Bread-toaster. No. 1,394,450; Oct. 18.
- Strite, George T., Minneapolis, Minn. Traction-machine. No. 1,393,462; Oct. 11.
- Strittmatter, William, North Bergen, N. J. Means for marking wound strip materials. No. 1,387,330; Aug. 9; v. 289; p. 343.
- Strobel, Roger L., East Helena, Mont., assignor to American Smelting and Refining Company. Muffler-burner. No. 1,376,979; May 3; v. 286; p. 114.
- Stroberger, Otto, and R. E. Lee, Creighton, Nebr. Engine-cylinder dresser. No. 1,389,850; Sept. 6; v. 290; p. 58.
- Stroberger, Otto, Creighton, Nebr. Air-hose support. No. 1,395,616; Nov. 1.
- Strobino, Gaston, Paterson, N. J. Phonograph-reproducer. No. 1,374,479; Apr. 12; v. 285; p. 254.
- Strobl, Engelbert, Baltimore, Md. Musical toy. No. 1,400,386; Dec. 13.
- Strobl, Frank P., assignor of one-half to R. Y. Cliff, Sebring, Ohio. Automatic batting-out and slapping-on device. No. 1,395,161; Oct. 25.
- Strock, Carl G., Santa Ana, Calif. Dust-collector for lathes, &c. No. 1,386,539; Aug. 2; v. 289; p. 112.
- Stroh, Arthur K., Cadillac, Mich. Nutlock. No. 1,400,387; Dec. 13.
- Stroh, Freeman W., Barberton, Ohio. Vise. No. 1,385,504; July 26; v. 288; p. 671.
- Stroh, Henry N., Pittsburgh, Pa. Method and apparatus for calibrating measuring-instrument transformers. No. 1,395,306; Nov. 1.
- Strohbach, Erich, Vienna, Austria. Film-fire extinguisher. No. 1,392,233; Sept. 27; v. 290; p. 767.
- Strohbach, Henry J., New York, N. Y. Coffee-urn. No. 1,385,593; July 26; v. 288; p. 689.
- Strohm, John W., New York, N. Y. Target-practice apparatus. No. 1,369,572; Feb. 22; v. 283; p. 669.
- Strohmaier, Edgar A., San Mateo, and B. A. Hook, Centerville, Calif. Apparatus for cooking thick masses. No. 1,366,431; Jan. 25; v. 282; p. 589.
- Strom, Eugene N., and M. L. Erikson, assignors to Pettibone, Mulliken Company, Chicago, Ill. Switch-stand. No. 1,373,031; Mar. 29; v. 284; p. 836.
- Strom, Swan R., Chicago, Ill., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Washer and shaft. No. 1,381,360; June 14; v. 287; p. 249.
- Strom, Will V. (See Pringle, Jesse N., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company. (See Dean, William W., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Manson, Ray H., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Powell, Winfred T., assignor.)
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Slough, Frank M., assignor.)
- Stromberg, Charles A., Port Townsend, Wash. Cabinet. No. 1,377,938; May 10; v. 286; p. 356.
- Stromberg, Charles G., Chicago, Ill. Tuning device for stringed musical instruments. No. 1,367,105; Feb. 1; v. 283; p. 44.
- Stromberg, Electric Company. (See Crook, C. M., and Gammeter, assignors.)
- Stromberg, Fritz O., Los Angeles, Calif. Poultry-run. No. 1,374,120; Apr. 5; v. 285; p. 144.
- Stromberg, Henry H., Chicago, Ill. Phonographic reproducer. No. 1,378,144; May 17; v. 286; p. 447.
- Stromberg, Julius J., Buffalo, Minn. Adjustable wagon-bed. No. 1,366,847; Jan. 25; v. 282; p. 672.
- Stromberg Motor Devices Company. (See Cole, Don, assignor.)
- Stromberg Motor Devices Company. (See Goldberg, John S., assignor.)
- Stromberg Motor Devices Company. (See Mock, Frank C., assignor.)
- Stromberg Motor Devices Company. (See Taylor, Harry P., assignor.)
- Stromberg, William E., and E. H. Schmicking, New York, N. Y.; said Stromberg assignor to said Schmicking. Belt-controller. No. 1,385,728; July 26; v. 288; p. 717.
- Stromborg, Oscar, Los Angeles, Calif. Trap-nest. No. 1,396,386; Nov. 8.
- Strome, Orrin R., Pleasant Dale, Saskatchewan, Canada. Clutch and change-speed mechanism. No. 1,374,039; Apr. 5; v. 285; p. 128.
- Strome, Orrin R., Melfort, Saskatchewan, Canada. Rotary-brush sweeper. No. 1,383,440; July 5; v. 288; p. 38.
- Stromgren, Charles D., Los Angeles, Calif. Valve-silencer. No. 1,395,064; Oct. 25.
- Strommer, Sigfrid, Bayswater, London, England. Clock and means for winding same. No. 1,372,256; Mar. 22; v. 284; p. 644.
- Stromwall, Oscar A., Foreston, Minn. Combination milking stool and pail-holder. No. 1,376,050; Apr. 26; v. 285; p. 650.
- Strong, Arthur P. (See Poppenhusen, H. A., and Strong.)
- Strong, Arthur P., Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind. Ash-conveying system. No. 1,365,804; Jan. 18; v. 282; p. 423.
- Strong, Arthur P., Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind. Pipe-support for ash-conveying systems. No. 1,370,615; Mar. 8; v. 284; p. 209.
- Strong, Chester F., New York, N. Y. Electric generating system. No. 1,387,741; Aug. 16; v. 289; p. 477.
- Strong, Chester F., New York, N. Y. Electric generating system. No. 1,387,742; Aug. 16; v. 289; p. 477.
- Strong, Edwin H., New York, N. Y. Necktie-stretcher. No. 1,393,848; Oct. 18.
- Strong, Ernest G., and E. C. Rohn, assignors to The Timken Roller Bearing Company, Canton, Ohio. Machine for closing cages of roller-bearings. No. 1,375,334; Apr. 19; v. 285; p. 481.



- Strong, Grace R., Stapleton, N. Y. Game device. No. 1,365,863; Jan. 18; v. 282; p. 435.
- Strong, Harvey M., Des Moines, Iowa. Globe and fuse carrier. No. 1,371,272; Mar. 15; v. 284; p. 396.
- Strong, Henry, Millinocket, Me. Turbine-pump. No. 1,372,786; Mar. 29; v. 284; p. 787.
- Strong, James B., Hillburn, N. Y. Railway-crossover. No. 1,382,868; June 28; v. 287; p. 648.
- Strong, James B., Hillburn, N. Y. Crossover. No. 1,382,869; June 28; v. 287; p. 648.
- Strong, Leon B., Livingston, Mont. Transmission mechanism. No. 1,397,494; Nov. 15.
- Strong, Roy M., Platteville, Wis. Device for holding oil-cloth. No. 1,366,608; Jan. 25; v. 282; p. 625.
- Strong-Scott Manufacturing Company, The. (See Quehl, Richard G., assignor.)
- Strong, William H. S., Sandusky, Ohio. Mangle. No. 1,380,266; May 31; v. 286; p. 995.
- Strong, William J. H., Chicago, Ill. Hot-air motor. No. 1,365,206; Jan. 11; v. 282; p. 267.
- Strong, William J. W. (See Olson, Olof, H., assignor.)
- Stronghart Company. (See Kusel, Isidor J., assignor.)
- Stronsider, John K., Sugar Grove, Ohio. Automobile-lock. No. 1,377,224; May 10; v. 286; p. 217.
- Stroud & Company. (See Jensen, Albert, assignor.)
- Stroud, David H., Jr., Philadelphia, Pa. Rug-weaving, and the product resulting therefrom. No. 1,394,869; Oct. 25.
- Stroud, Fred, assignor of one-half to H. G. Ansell, Omaha, Neb. Amusement device. No. 1,386,209; Aug. 2; v. 289; p. 49.
- Stroud, Lamont H., Sheridan, Wyo. Station-indicator. No. 1,392,718; Oct. 4.
- Stroud, Myrtle V., Fink Hill, N. C. Picture-frame attachment. No. 1,400,920; Dec. 20.
- Stroud, Pearl E., South Heart, N. D. Tire-protecting casting. No. 1,395,162; Oct. 25.
- Stroup, George C., Jersey City, assignor of one-half to J. H. Bradshaw, Fallsides, N. J. Car-coupling release. No. 1,380,122; May 31; v. 286; p. 969.
- Strout, Noyes R., Norwood, assignor to The Champion Amusement Company, Cincinnati, Ohio. Card game. No. 1,399,823; Dec. 13.
- Struble, Jacob B. (See Page, S. H., and Struble.)
- Struck, John W., Spokane, Wash. Pneumatic transmission. No. 1,399,588; Dec. 6.
- Struebing, Edward H., Tonawanda, N. Y. Auxiliary seat for baby-carriages. No. 1,392,461; Oct. 4.
- Struebing, Herman W., Milwaukee, Wis. Window-clamp. No. 1,387,564; Aug. 16; v. 289; p. 441.
- Struensee, Otto, Philadelphia, Pa. Coating for floggs. No. 1,385,284; July 19; v. 288; p. 549.
- Strunk, John H., Jacksonville, Fla. Automatic safety appliance for railways. No. 1,387,331; Aug. 9; v. 289; p. 343.
- Struve, Albert H., Pocatello, Idaho. Washing device. No. 1,390,176; Sept. 6; v. 290; p. 124.
- Struve, Edward W. (See Jones, H. A., and Struve.)
- Stryker, Jesse C., et al. (See Procnier, Frank R., assignor.)
- Strykul, Joseph, South Bend, Ind. Washing-machine. No. 1,367,286; Feb. 1; v. 283; p. 80.
- Stryker, Julius B. B. (See Perkins, J. G. B., and Stryker.)
- Stryker, Julius B. B. (See Williams, F. S., Perkins, and Stryker.)
- Strzyczkowski, Julian, New York, N. Y. Auto-tire. No. 1,370,714; Mar. 8; v. 284; p. 228.
- Stuart, Arthur C., assignor, by mesne assignments, to J. R. Garfield, trustee, Cleveland, Ohio. Telephone-exchange system. No. 1,384,980; July 19; v. 288; p. 487.
- Stuart, Donald R., Harlan, Iowa. Feed-trough. No. 1,395,307; Nov. 1.
- Stuart, Edwards B., Chicago, Ill. Typewriting-machine. No. 1,366,137; Jan. 18; v. 282; p. 488.
- Stuart, Francis B. (See Rivers, C. A., and Stuart.)
- Stuart, Francis L., New York, N. Y. Apparatus for conveying, delivering, and gathering material. No. 1,397,561; Nov. 22.
- Stuart, Fredrik, Philadelphia, Pa. Necktie-form. No. 1,380,267; May 31; v. 286; p. 995.
- Stuart, George S., Bradford, Pa. Emergency device for use with automobiles. No. 1,379,485; May 24; v. 286; p. 774.
- Stuart, Harve R., Springfield, Ohio. Cooling device for explosive-engines. No. 1,389,395; Aug. 30; v. 289; p. 916.
- Stuart, John L., Oakland, assignor to Stuart Machine Co., San Francisco, Calif. Die for setting gromets and eyelets. No. 1,373,461; Apr. 5; v. 285; p. 16.
- Stuart, John L., Oakland, assignor to Stuart Machine Co., San Francisco, Calif. Gromet making and setting machine. No. 1,373,462; Apr. 5; v. 285; p. 16.
- Stuart, Kenneth E. (See Lyster, T. L. B., and Stuart.)
- Stuart, Le Roy B. (See Fulkerson, J. C., and Stuart.)
- Stuart, Lovell D., Rosedale, Kans. Emergency-tire. No. 1,365,864; Jan. 18; v. 282; p. 435.
- Stuart Machine Co. (See Stuart, John L., assignor.)
- Stuart, Orsini, Liverpool, England. Closure-fastener. No. 1,382,567; June 21; v. 287; p. 537.
- Stuart, Orsini, Liverpool, England. Door applicable for closing the openings or ways through bulkheads, partitions, walls, and the like. No. 1,387,332; Aug. 9; v. 289; p. 344.
- Stuart, Orsini, Liverpool, England. Fastener for bulkhead-doors. No. 1,387,333; Aug. 9; v. 289; p. 344.
- Stuart, Orsini, Liverpool, England. Bulkhead-door. No. 1,395,777; Nov. 1.
- Stuart Products Corporation. (See Askin, Joseph M., assignor.)
- Stubbe, John H., Pittsburgh, Pa. Elevator for automobile-trucks and the like. No. 1,390,837; Sept. 13; v. 290; p. 348.
- Stubblefield, John A., Portland, Oreg. Nut-lock. No. 1,388,317; Aug. 23; v. 289; p. 648.
- Stubbs, Charles T., Milwaukee, Wis. Valve-lifter. No. 1,393,180; Oct. 11.
- Stubbs, Robert C., Dallas, Tex. Paving apparatus. No. 1,383,581; July 5; v. 288; p. 67.
- Stubbs, Rupert I., Delta, Pa. Presser device. No. 1,383,582; July 5; v. 288; p. 67.
- Stubbs, William, Sheffield, England. Apparatus for twisting metal bars. No. 1,395,617; Nov. 1.
- Stuber, Adolph, Rochester, N. Y. Liquid measuring and registering device. No. 1,370,068; Mar. 1; v. 284; p. 59.
- Stuber, Adolph, Rochester, N. Y. Apparatus for registering the flow of liquid. No. 1,387,022; Aug. 9; v. 289; p. 282.
- Stucki, Arnold, Pittsburgh, Pa. Roller side bearing. No. 1,369,055; Feb. 22; v. 283; p. 569.
- Studebaker Corporation. (See Davenport, George R., assignor.)
- Studebaker Corporation, The. (See Link, Vincent, assignor.)
- Studebaker Corporation, The. (See Smith, Sydney, assignor.)
- Studebaker Corporation, The. (See Wickenden, Thomas H., assignor.)
- Studebaker, Walter M., and H. J. Epple, Erie, Pa. Separator for storage batteries. No. 1,375,740; Apr. 26; v. 285; p. 590.
- Studer, Caspar, Winterthur, Switzerland. Filing-cabinet. No. 1,381,361; June 14; v. 287; p. 249.
- Studholme, Joseph H. (See Carlstrom, Knut S., assignor.)
- Studstill, William E., Murphy, N. C. Electric contact device. No. 1,383,037; June 28; v. 287; p. 681.
- Studd, Franz E., London, England. Electrolytic deposition of copper from acid solutions. No. 1,378,145; May 17; v. 286; p. 447.
- Stuebing Truck Co., The. (See Sigel, William B., assignor.)
- Stuebing Truck Company, The. (See Stuebing, William, Jr., assignor.)
- Stuebing, William, Jr., Cincinnati, Ohio. Platform. No. 1,374,613; Apr. 12; v. 285; p. 280.
- Stuebing, William, Jr., assignor to The Stuebing Truck Company, Cincinnati, Ohio. Lifting-truck. No. 1,381,515; June 14; v. 287; p. 277.
- Stukey, Lawson J., Pittsburg, Kans. Washing-machine. No. 1,400,388; Dec. 13.
- Stulck, George W., Louisville, Ky. Combination baby crib and cradle. No. 1,372,105; Mar. 22; v. 284; p. 614.
- Stull, Charles H., Seattle, Wash. Electric-light support. No. 1,366,682; Jan. 25; v. 282; p. 640.
- Stull, Eleanor R., et al. (See Buhrman, Catherine M., assignor.)
- Stull, Gideon M., et al. (See Law, William E., assignor.)
- Stull, Harry W., et al. (See Buhrman, Catherine M., assignor.)
- Stull, John S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Cutter-head. No. 1,380,686; June 7; v. 287; p. 69.
- Stull, Reuby M., et al. (See Buhrman, Catherine M., assignor.)
- Stuller, Frank, Rivesville, W. Va. Sword-hilt pistol. No. 1,384,644; July 12; v. 288; p. 338.
- Stultz, George H., Winterset, Iowa. Breeding-crate. No. 1,373,921; Apr. 5; v. 285; p. 106.
- Stumbaugh, Leman F., Denver, Colo. Steering-wheel hand-warming device for automobiles and marine and aviation machines. No. 1,380,604; June 7; v. 287; p. 53.
- Stumme, Emil C., Readyln, Iowa. Coin-sorter. No. 1,376,904; May 3; v. 286; p. 100.
- Stumme, Emil C., Readyln, Iowa. Time-calculator. No. 1,387,082; Aug. 9; v. 289; p. 295.
- Stump, Ira E., Cleveland, Ohio. Valve. No. 1,383,170; June 28; v. 287; p. 705.
- Stumpenhorst, John A., Wilkinsburg, Pa. Motor-vehicle driving mechanism. No. 1,396,074; Nov. 8.
- Stumpenhorst, John A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Ignition breaker contact. No. 1,382,870; June 28; v. 287; p. 648.
- Stumpf Una-Flow Engine Company. (See Brown, William C., assignor.)
- Stumpf Una-Flow Engine Company. (See Turnwald, Wolfgang, assignor.)
- Stunkel, Lewis, Peck, Kans. Rail-support. No. 1,401,656; Dec. 27.
- Stupar, Gottfried, Chicago, Ill. Phonograph. No. 1,390,655; Sept. 13; v. 290; p. 213.
- Stupich, David. (See Markovich, Mike, assignor.)
- Sturbelle, Lucien C., Drammen, Norway. Reversing mechanism for rotating shafts and the like. No. 1,369,573; Feb. 22; v. 283; p. 669.



## Alphabetical list of patentees—Continued.

- Sturd-Truck Company, The. (See Hennessy, Daniel E., assignor.)
- Sturdivant, Micajah P., *et al.* (See McGehee, Ira E., assignor.)
- Sturgeon, Robert A., Southsea, Portsmouth, England. Centrifugal separator. No. 1,382,142; June 21; v. 287; p. 455.
- Sturgeon, Thomas R., New York, N. Y. Speed-change device. No. 1,374,614; Apr. 12; v. 285; p. 280.
- Sturges, Norman D., Bellerose, N. Y., assignor to Multiple Storage Battery Co. Seal for batteries. No. 1,376,905; May 3; v. 286; p. 100.
- Sturgis, Frank M., Forsyth, Ill. Flexible mud-lug. No. 1,393,252; Oct. 11.
- Sturgis, Henry H., Key West, Fla. Fishing-tackle. No. 1,371,128; Mar. 8; v. 284; p. 306.
- Sturgis Steel Go-Cart Co. (See Lindberg, Charles A., assignor.)
- Sturgis, William B., assignor to General Explosives Company, Chicago, Ill. Explosive. No. 1,393,463; Oct. 11.
- Sturm, Andrew F., Nehawka, Nebr. Bed-spring and auto-cushion. No. 1,389,168; Aug. 30; v. 289; p. 871.
- Sturm, Charles A. (See Long, J. A., and Sturm.)
- Sturm, Lewis D., Portland, Oreg. Rear-axle pulley-drive for automobile vehicles. No. 1,390,656; Sept. 13; v. 290; p. 312.
- Sturman, Robert E., Delano, Minn. Heating-boiler. No. 1,390,838; Sept. 13; v. 290; p. 348.
- Sturmev, John J. H., Coventry, England. Bracket for converting pleasure motor-vehicles into motor tractors or trucks. No. 1,370,616; Mar. 8; v. 284; p. 209.
- Sturtevant, B. F., Company. (See De Clamecy, Philippe, assignor.)
- Sturtevant, B. F., Company. (See Hagen, Harold F., assignor.)
- Sturtevant, B. F., Company. (See Ross, John O., assignor.)
- Sturtevant, Laurance H. (See Sturtevant, Thomas L., T. J., and L. H.)
- Sturtevant Mill Company. (See Doyle, William T., assignor.)
- Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
- Sturtevant Mill Company. (See Sturtevant, Thomas L., assignor.)
- Sturtevant Mill Company. (See Sturtevant, Thomas L., T. J., and L. H., assignors.)
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Elevator. No. 1,366,103; Jan. 18; v. 282; p. 481.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,367,635; Feb. 8; v. 283; p. 206.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,367,636; Feb. 8; v. 283; p. 207.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,367,637; Feb. 8; v. 283; p. 207.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,378,060; May 17; v. 286; p. 431.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,379,730; May 31; v. 286; p. 894.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Crushing-roll machine. No. 1,381,362; June 14; v. 287; p. 249.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,383,441; July 5; v. 288; p. 38.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,384,929; July 19; v. 288; p. 476.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,385,025; July 19; v. 288; p. 497.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,385,846; July 26; v. 288; p. 740.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,385,847; July 26; v. 288; p. 741.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,385,848; July 26; v. 288; p. 741.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Machine for mixing materials. No. 1,385,849; July 26; v. 288; p. 741.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Crushing-mill. No. 1,390,839; Sept. 13; v. 290; p. 349.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Machine for reducing and separating materials. No. 1,390,840; Sept. 13; v. 290; p. 349.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Elevator. No. 1,391,703; Sept. 27; v. 290; p. 660.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Elevator. No. 1,391,704; Sept. 27; v. 290; p. 660.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Mixing-machine. No. 1,393,181; Oct. 11.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Screen-separator. No. 1,397,338; Nov. 15.
- Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,400,467; Dec. 13.
- Sturtevant, Thomas L., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,397,337; Nov. 15.
- Sturtevant, Thomas L., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Screen-separator. No. 1,397,339; Nov. 15.
- Sturtevant, Thomas L., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Screen-separator. No. 1,397,340; Nov. 15.
- Sturtevant, Thomas L., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Screen-separator. No. 1,397,341; Nov. 15.
- Sturtevant, Thomas L., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Screen-separator. No. 1,397,342; Nov. 15.
- Sturtevant, Thomas L., Quincy, assignor to Sturtevant Mill Company, Boston, Mass. Screen-separator. No. 1,397,343; Nov. 15.
- Sturtevant, Thomas L., Quincy, T. J. Sturtevant, Wellesley, Mass., and L. H. Sturtevant, Temple, N. H., assignors to Sturtevant Mill Company, Boston, Mass. Separator. No. 1,397,336; Nov. 15.
- Styll, Harry H., Southbridge, Mass. Lens. No. 1,364,960; Jan. 11; v. 282; p. 220.
- Styll, Harry H., Southbridge, Mass. Hairpin. No. 1,368,858; Feb. 15; v. 283; p. 491.
- Styll, Harry H., Southbridge, Mass. Memorandum device. No. 1,368,859; Feb. 15; v. 283; p. 492.
- Styrbinski, Antoni, Michigan City, Ind. Mail-box. No. 1,366,294; Jan. 18; v. 282; p. 519.
- Styrbinski, Joseph, Michigan City, Ind. Ash-sifter. No. 1,371,129; Mar. 8; v. 284; p. 306.
- Subber, Morris, Philadelphia, Pa. Window and door lock. No. 1,389,709; Sept. 6; v. 290; p. 30.
- Subers, Lawrence A., Lakewood, Ohio. Machine for the continuous vulcanization of bands or belts. No. 1,391,805; Sept. 27; v. 290; p. 679.
- Sublette, William M., assignor of one-half to C. M. Blair, Los Angeles, Calif. Gasifier. No. 1,397,063; Nov. 15.
- Submarine Salvage Company. (See Lindquist, Carl J., assignor.)
- Submarine Signal Company. (See Fessenden, Reginald A., assignor.)
- Submarine Signal Company. (See Williams, Robert L., assignor.)
- Submarine Signal Company. (See Wood, E. C., and Fay, assignors.)
- Submersible & J-L Motors. (See Durnford, Charles W., assignor.)
- Subroyar, Erode R., Mylapore, Madras, India. Door and window adjuster. No. 1,386,740; Aug. 9; v. 289; p. 225.
- Subtirelu, Christea N., New York, N. Y. Smoker's pipe. No. 1,390,657; Sept. 13; v. 290; p. 313.
- Success Concrete No-Ice Food Cooler Co. (See Adams, Frank O., assignor.)
- Success Cone Co. (See Israel, Isaac, assignor.)
- Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Apparatus for compression and condensation. No. 1,371,821; Mar. 15; v. 284; p. 504.
- Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Condensing apparatus. No. 1,373,463; Apr. 5; v. 285; p. 16.
- Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Fluid-compressing apparatus. No. 1,388,670; Aug. 23; v. 289; p. 717.
- Sudekum, William, Nashville, Tenn. Metallic packing. No. 1,366,219; Jan. 18; v. 282; p. 504.
- Suderman, Albert G., River Rouge, Mich. Corn-holder. No. 1,391,283; Sept. 20; v. 290; p. 502.
- Sudhoff, Alfred G. (See Ziegler, W. M., and Sudhoff.)
- Suehy, Albert, jr., Newark, N. J. Machine for cleaning plastic materials. (Reissue.) No. 15,060; Mar. 8; v. 284; p. 323.
- Suekoff, Louis A., Chicago, Ill. Spring-cushion construction. No. 1,397,021; Nov. 15.
- Sugar Centrifugal Discharger Co. (See Roberts, E., and Gibson, assignors.)
- Sugden, Isabella E., *et al.* (See McKibbin, John B., assignor.)
- Sugden, Margaret I., *et al.* (See McKibbin, John B., assignor.)
- Sugg, John V., Dawson Springs, Ky. Window. No. 1,397,117; Nov. 15.
- Sugimoto, Kyoto, Tokyo, Japan. Type-casting machine. No. 1,364,593; Jan. 4; v. 282; p. 105.
- Sugimura, Nobuchika, Tokyo, Japan, assignor to General Electric Company. Electrical apparatus. No. 1,394,951; Oct. 25.
- Subajda, Stephen, K. Adamowski, Oakdale, Pa., T. J. Adamowski, and J. W. Kurey, Weirton, W. Va. Rail tie and fastener. No. 1,370,163; Mar. 1; v. 284; p. 77.



*Alphabetical list of patentees—Continued.*

- Suhr, Anthon, Gibbon, Nebr. Hand and wrist protector. No. 1,377,103; May 3; v. 286; p. 138.
- Suhr, Charles, Chicago, Ill. Vehicle attachment. No. 1,384,576; July 12; v. 288; p. 322.
- Süßbreke, Harry A., Hamburg, Germany. Film-cleaning machine. No. 1,398,811; Nov. 29.
- Sulak, Anton G., Seattle, Wash. Toothbrush receptacle and holder. No. 1,375,865; Apr. 26; v. 285; p. 614.
- Sullivan, Allan C., and J. W. Gill, Portland, Oreg., as signors to Smith & Watson Iron Works. Two-speed direct-drive logging-engine. No. 1,394,451; Oct. 18.
- Sullivan, Arthur B. (See Mott, Samuel D., assignor.)
- Sullivan, Charles A., Detroit, Mich. Wheel. No. 1,394,372; Oct. 18.
- Sullivan, David M. (See Touchstone, B. F., Gardner, Bangle, Sullivan, and Hardin.)
- Sullivan, Denis R., Longville, La. Reinforced-concrete tie. No. 1,384,496; July 12; v. 288; p. 306.
- Sullivan, Dennis L., Sreator, Ill. Chain. No. 1,376,299; Apr. 26; v. 285; p. 698.
- Sullivan, E. C., and W. C. Taylor, assignors to The Corning Glass Works, Corning N. Y. Glass composition and articles made therefrom. No. 1,369,988; Mar. 1; v. 284; p. 45.
- Sullivan, E. Mark, administrator. (See McFeely, Ronald F.)
- Sullivan, Frank, Cusick, Wash. Irrigation-regulator. No. 1,375,240; Apr. 19; v. 285; p. 463.
- Sullivan, Giles V., San Francisco, Calif., assignor to Bethlehem Shipbuilding Corporation Ltd., South Bethlehem, Pa. Setting turbine-blades. No. 1,371,763; Mar. 15; v. 284; p. 493.
- Sullivan, John D., Salt Lake City, Utah. Lawn-sprinkler. No. 1,401,009; Dec. 20.
- Sullivan, Joseph J. (See Hanson, Oscar W., assignor.)
- Sullivan, Leonard M., Girard, Kans. Grave-marker. No. 1,364,902; Jan. 11; v. 282; p. 209.
- Sullivan Machinery Company. (See Cartlidge, Frank, assignor.)
- Sullivan Machinery Company. (See Ferguson, Alexander D., assignor.)
- Sullivan Machinery Company. (See Gilman, George H., assignor.)
- Sullivan Machinery Company. (See Halleck, Frank A., assignor.)
- Sullivan Machinery Company. (See Halvorsen, Halbert B., assignor.)
- Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)
- Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
- Sullivan Machinery Company. (See Johansen, Harry C., assignor.)
- Sullivan Machinery Company. (See McGowan, E., and Upham, assignors.)
- Sullivan Machinery Company. (See Oliphant, John, assignor.)
- Sullivan Machinery Company. (See Osgood, Robert C., assignor.)
- Sullivan Machinery Company. (See Willey, Frank E., assignor.)
- Sullivan Machinery Company. (See Wineman, Wade H., assignor.)
- Sullivan, Maurice P., Torrington, Conn., assignor to Splitdorf Electrical Company, Newark, N. J. Spark-plug. No. 1,373,682; Apr. 5; v. 285; p. 58.
- Sullivan, Michael J., Holyoke, Mass. Cuff-button. No. 1,380,268; May 31; v. 286; p. 996.
- Sullivan, Patrick J. M., Woodcliffe-on-Hudson, N. J., assignor to Monahan Rotary Engine Corporation, New York, N. Y. Engine-frame. No. 1,382,811; June 28; v. 287; p. 637.
- Sullivan, Paul C., Fairmont, W. Va. Golf-practicing means. No. 1,383,876; July 5; v. 288; p. 128.
- Sullivan, Timothy J., Warnsprings, Mont. House-service valve. No. 1,384,645; July 12; v. 288; p. 338.
- Sullivan, Wellington B., Baltimore, Md. Contact-shoe. No. 1,385,100; July 19; v. 288; p. 513.
- Sullivan, William B., assignor to Rich Tool Company, Chicago, Ill. Hardened-steel tool. No. 1,399,414; Dec. 6.
- Sullivan, William E., Roodhouse, Ill. Portable lighting plant. No. 1,380,123; May 31; v. 286; p. 969.
- Sullivan, William L., Ferguson, Mo. Piston-ring. No. 1,369,989; Mar. 1; v. 284; p. 45.
- Sullivan, William T., Cincinnati, Ohio. Metal-stamping machine. No. 1,386,540; Aug. 2; v. 289; p. 112.
- Sullivan, Willie B., Chicago, Ill. Battery-box. No. 1,369,056; Feb. 22; v. 283; p. 569.
- Sully, Roland J., assignor to H. Merton. Caversham, Reading, England. Driving mechanism of radiator-fans and water-impellers for motor-vehicles and the like. No. 1,366,295; Jan. 18; v. 282; p. 519.
- Sulman, Henry L., and W. B. Ballentine, London, England. Manufacture of alloys. No. 1,392,462; Oct. 4.
- Sultz, Morton, Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Methods and means for correcting irregularities in transmission-lines. No. 1,387,210; Aug. 9; v. 289; p. 318.
- Sulzberger, Nathan, New York, N. Y. Salts of aromatic hydroxyl amines. No. 1,390,260; Sept. 6; v. 290; p. 140.
- Sulzberger, Nathan, New York, N. Y. Cigarette. No. 1,391,427; Sept. 20; v. 290; p. 531.
- Sulzer, Albert F. (See Hastings, H. E., Farley, and Sulzer.)
- Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Stencil-sheet and making it. No. 1,375,866; Apr. 26; v. 285; p. 614.
- Sulzer, Albert F., assignor to Eastman Kodak Company, Rochester, N. Y. Cellulose-Acetate Composition. No. 1,398,949; Nov. 29.
- Suman, John R., Houston, Tex. Rotary earth-boring drill. No. 1,388,490; Aug. 23; v. 289; p. 683.
- Sumbling Machinery Company, Limited. (See Sumbling, William H., assignor.)
- Sumbling, William H., Toronto, Ontario, Canada. Mounting means for grinding-wheels. No. 1,374,334; Apr. 12; v. 285; p. 225.
- Sumbling, William H., assignor to Sumbling Machinery Company, Limited, Toronto, Ontario, Canada. Combined grinding-wheel guard and rest. No. 1,386,741; Aug. 9; v. 289; p. 225.
- Sumersille, Alano E., San Juan, Porto Rico. Dividers. No. 1,380,269; May 31; v. 286; p. 996.
- Summer, George H. (See Heidtmann, W. A., and Summer.)
- Summer, Simon J., Providence, R. I. Advertising or display case. No. 1,366,432; Jan. 25; v. 282; p. 590.
- Summerbell, William J., Chicago, Ill. Trussed-roof structure. No. 1,392,882; Oct. 4.
- Summerfield, Benard, Chicago, Ill. Detachable heel. No. 1,396,299; Nov. 8.
- Summerfield, Harry St. Paul, Minn. Antiskid-clamp. No. 1,369,363; Feb. 22; v. 283; p. 628.
- Summerfield, Ralph. (See Stenger, L. U., and Summerfield.)
- Summers, Boyd, Columbus, Ohio. Centering-square. No. 1,373,367; Mar. 29; v. 284; p. 902.
- Summers, Frank E., Memphis, Mo. Transmitter. No. 1,374,688; Apr. 12; v. 285; p. 295.
- Summers, J. Mills, Pittsburgh, Pa. Railway-brake hanger. No. 1,385,850; July 26; v. 288; p. 741.
- Summers, J. Mills, Pittsburgh, Pa. Railway-brake hanger. No. 1,385,851; July 26; v. 288; p. 741.
- Summers, John H., and E. S. Kirk, Taft, Calif. Valve. No. 1,379,136; May 24; v. 286; p. 709.
- Summers, Leland L., Washington, D. C. Gun. No. 1,401,010; Dec. 20.
- Summers, Otto, Chicago, Ill., assignor to Floyd Smith Aerial Equipment Company. Parachute pack and harness. No. 1,386,971; Aug. 9; v. 289; p. 272.
- Summit Thread Company. (See Weaver, Lucius E., assignor.)
- Sumner, Henry W., Seattle, Wash. Igniter. No. 1,379,060; May 24; v. 286; p. 693.
- Sumner, Henry W., Seattle, Wash. Reversing engine control means. No. 1,397,258; Nov. 15.
- Sumner, James I., assignor of one-half to A. G. Schimming, Minneapolis, Minn. Shock-absorber. No. 1,387,812; Aug. 16; v. 289; p. 492.
- Sumner, Warren S., Highland Park, Mich. Antiglare attachment. No. 1,368,986; Feb. 15; v. 283; p. 515.
- Sun Electro Works, The. (See Ritz, F., and Brook, assignors.)
- Sunbeam Motor Car Company. (See Coatalen, L., and Stevens, assignors.)
- Sunday, Gustave W., et al. (See Scholtz, John, assignor.)
- Sundberg, Carl H., Chicago, Ill. Vegetable-masher. No. 1,373,843; Apr. 5; v. 285; p. 90.
- Sundby Battery Manufacturing Company. (See Sundby, John C., assignor.)
- Sundby & Harris. (See Sundby, Olaf, assignor.)
- Sundby, John C., assignor to Sundby Battery & Manufacturing Company, Enderlin, N. D. Grid for storage batteries. No. 1,389,018; Aug. 30; v. 289; p. 841.
- Sundby, Olaf, assignor to Sundby & Harris, East Ellsworth, Wis. Tire-spreader. No. 1,380,436; June 7; v. 287; p. 21.
- Sundel, Samuel, assignor of one-half to L. M. Rudman, New Haven, and one-half to M. Strachansky, East Haven, Conn. Portable burglar alarm. No. 1,377,939; May 10; v. 286; p. 356.
- Sunder, Charles A., assignor to McKee Glass Company, Jeannette, Pa. Fire-polishing apparatus. No. 1,383,171; June 28; v. 287; p. 706.
- Sunderland, Leo, and G. C. Pillinger, Westminster, London, England. Automatic control of electric generating sets. No. 1,386,972; Aug. 9; v. 289; p. 272.
- Sunderland, Riley, Chicago, Ill. Package. No. 1,367,569; Feb. 8; v. 283; p. 194.
- Sunderman Corporation. (See Keppler, Albert C., assignor.)
- Sunderman Corporation. (See Sunderman, F. R., and Shimpf, assignors.)
- Sunderman, Frederick R., and W. H. Shimpf, Detroit, Mich., assignors to Sunderman Corporation, Newburgh, N. Y. Internal-combustion engine. No. 1,388,444; Aug. 23; v. 289; p. 674.
- Sundermann, George H., Jr., New York, N. Y. Mop-head. No. 1,376,175; Apr. 26; v. 285; p. 673.
- Sundh, August, Hastings-upon-Hudson, N. Y. Gear. No. 1,367,170; Feb. 1; v. 283; p. 57.
- Sundh, August, Hastings-upon-Hudson, N. Y. Fluid-clutch. No. 1,372,984; Mar. 29; v. 284; p. 828.



## Alphabetical list of patentees—Continued.

- Sundh, August, Hastings-upon-Hudson, N. Y. Fluid-clutch. No. 1,372,985; Mar. 29; v. 284; p. 828.
- Sundh, August, Hastings-upon-Hudson, N. Y. Clutch. No. 1,372,986; Mar. 29; v. 284; p. 828.
- Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa. Apparatus for winding metal strips. No. 1,371,769; Mar. 15; v. 284; p. 494.
- Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa. Apparatus for drying metal strips. No. 1,374,335; Apr. 12; v. 285; p. 226.
- Sundh, August, Hastings-upon-Hudson, N. Y., assignor to Sundh Engineering and Machine Company, Philadelphia, Pa. Machine for treating metal strips. No. 1,380,437; June 7; v. 287; p. 21.
- Sundh Electric Company. (See Larsen, Louis, assignor.)
- Sundh Engineering and Machine Company. (See Sundh, August, assignor.)
- Sundhaussen, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Adjusting apparatus. No. 1,366,433; Jan. 25; v. 282; p. 590.
- Sundhaussen, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fire-control apparatus particularly intended for naval guns. No. 1,375,264; Apr. 19; v. 285; p. 467.
- Sundhaussen, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Ball-bearing. No. 1,384,002; July 5; v. 288; p. 154.
- Sundhaussen, Hermann, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. System of connection. No. 1,387,433; Aug. 9; v. 289; p. 364.
- Sundhaussen, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gyroscopic stabilizer. No. 1,390,471; Sept. 13; v. 290; p. 274.
- Sundhaussen, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Disk-shaped commutator for gyroscope-motors. No. 1,398,404; Nov. 29.
- Sundhaussen, Hermann, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Brush arrangement for disk-shaped commutators. No. 1,400,779; Dec. 20.
- Sundheim, Peter J. (See Ferrall, J. J., Sundheim, and Trelawny.)
- Sundquist, John A., Georgetown township, Fairfield county, Conn. Toy chariot. No. 1,366,609; Jan. 25; v. 282; p. 626.
- Sundstrand, Gustaf D., assignor to Rockford Tool Company, Rockford, Ill. Cone-pulley head-stock. No. 1,387,519; Aug. 16; v. 289; p. 432.
- Sundstrand, Oscar J., Rockford, Ill. Check-protector. No. 1,378,496; May 17; v. 286; p. 513.
- Sundstrom, Carl J., Mud Butte, S. D. Calf-weaner. No. 1,383,442; July 5; v. 288; p. 38.
- Sunical Packing Company. (See Wolff, Henry N., assignor.)
- Sunnen, Joseph, Mexico, Mo. Valve-lifter. No. 1,369,142; Feb. 22; v. 283; p. 585.
- Sunnen, Joseph, Mexico, Mo. Spring suspension for automobiles. No. 1,384,167; July 12; v. 288; p. 237.
- Sunshine Amusement and Properties Co. (See Cudlipp, George R., assignor.)
- Super Valve Co. (See Birrell, James, assignor.)
- Superheater Company, The. (See Barnes, John A., assignor.)
- Superheater Company, The. (See Broido, Benjamin, assignor.)
- Superheater Company, The. (See McKee, Neal T., assignor.)
- Superheater Company, The. (See Oatley, Henry B., assignor.)
- Superheater Company. (See Schmidt, Wilhelm, assignor.)
- Superheater Company, The. (See True, Charles H., assignor.)
- Superheater Corporation Limited, The. (See Thom, Robert A., assignor.)
- Superior Manufacturing Company. (See Woock, Herbert J. and W. R., assignors.)
- Superior Manufacturing Company. (See Woock, Walter R., H. J., and E. M., assignors.)
- Superior Refining Process Co. (See Gilchrist, Vincent T., assignor.)
- Superior Rubber Company. (See Porzel, Joseph, assignor.)
- Superior Rubber Mold & Equipment Company, et al. (See Binns, John B., assignor.)
- Superior Tool Company, The. (See Williams, Harry W., assignor.)
- Suplee, Henry H., New York, N. Y., assignor to Dodge Manufacturing Company, Mishawaka, Ind. Airplane structure. No. 1,373,153; Mar. 29; v. 284; p. 861.
- Supple, Clare M., Boston, Mass. Stocking-supporter. No. 15,024; Jan. 11; v. 282; p. 352.
- Supplee, Samuel G., East Orange, N. J. Impression-tray. No. 1,385,505; July 26; v. 288; p. 671.
- Surbaugh, John S., Vincennes, Ind. Handle and blade connection. No. 1,374,336; Apr. 12; v. 285; p. 226.
- Surbeck, F. Baltis, Lewiston, Idaho. Humidifier. No. 1,395,778; Nov. 1.
- Surety Tire & Rubber Company. (See Sterns, Edward, assignor.)
- Surface, Harry E., Bloomington, Ill. Wagon-dump. No. 1,393,464; Oct. 11.
- Surico, Carmine. (See Cardone, P., Fumagalli, and Surico.)
- Surico, Carmine. (See Fumagalli, C. Surico, and Cardone.)
- Surpass Chemical Co. (See Smith, Harry B., assignor.)
- Surratt, Robert F., assignor of one-half to J. D. Callahan, Sylvatus, Va. Stringed musical instrument. No. 1,364,217; Jan. 4; v. 282; p. 33.
- Surtly Guard Company. (See Jones, Emerald E., assignor.)
- Susemihl, Theresa M., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Disazo dye. No. 1,378,388; May 17; v. 286; p. 492.
- Susnich, Eugene W., assignor to C. E. Webster, Wellsville, Ohio. Automatic heating system. No. 1,380,687; June 7; v. 287; p. 69.
- Sussman, Wladyslaw, Brooklyn, N. Y. Automatic rifle. No. 1,367,996; Feb. 8; v. 283; p. 275.
- Sutcliffe, John H., London, England. Manufacture of spectacles. No. 1,373,032; Mar. 29; v. 284; p. 837.
- Suter, Ernest A., Ancoats, Manchester, England. Azimuth-fitting for mariners' compasses. No. 1,401,205; Dec. 27.
- Sutherland, Charles S. (See Dorrida, William F., assignor.)
- Sutherland, Egbert C., assignor to Naamlooze Venootschap Industriële Maatschappij v. h. Noury en van des Lande, Deventer, Netherlands. Increasing the yield of bread. No. 1,372,842; Mar. 29; v. 284; p. 798.
- Sutherland, Egbert C., assignor to Naamlooze Venootschap Industriële Maatschappij voorheen Noury & van der Lande, Deventer, Netherlands. Treating meal or flour and milling products. No. 1,380,334; May 31; v. 286; p. 1008.
- Sutherland, Egbert C., assignor to Naamlooze Venootschap Industriële Maatschappij voorheen Noury & van der Lande, Deventer, Netherlands. Treating meal or flour and milling products. No. 1,381,079; June 7; v. 287; p. 145.
- Sutherland, Elizabeth M., Kansas City, Mo. Hairpin. No. 1,377,859; May 10; v. 286; p. 340.
- Sutherland, Isaac, Melbourne, Victoria, Australia. Cinematography. No. 1,364,652; Jan. 4; v. 282; p. 117.
- Sutherland, Norman A. (See Schinke, E. C., and Sutherland, assignors.)
- Sutherland, Robert F., Rochester, assignor to Vacuum Oil Company, New York, N. Y. Kick-off mechanism for conveyers. No. 1,401,372; Dec. 27.
- Sutherland, Russell C. (See Provorse, O. M., and Sutherland.)
- Sutliff, Lewis S., Charleston, S. C. Switch. No. 1,392,665; Oct. 4.
- Sutliffe, Frank C., San Francisco, Calif. Caster. No. 1,368,465; Feb. 15; v. 283; p. 415.
- Sutter, Josiah H., Wichita, Kans. Crank-shaft-dressing machine. No. 1,397,152; Nov. 15.
- Sutton, Arthur D., Pittsburgh, Pa. Furnace. No. 1,388,075; Aug. 16; v. 289; p. 542.
- Sutton, Edward R., Philadelphia, Pa. Car-unloader. No. 1,390,591; Sept. 13; v. 290; p. 299.
- Sutton, Francis A., London, England, assignor to C. C. Williams, Acting Chief of Ordnance, U. S. Army, trustee. Time-fuse. No. 1,385,759; July 26; v. 288; p. 723.
- Sutton, Francis A., Oakhurst, Ashford, England, assignor to C. C. Williams, Acting Chief of Ordnance, U. S. Army, trustee. Fuse for projectiles. No. 1,393,585; Oct. 11.
- Sutton, Henry M., W. L. Steele, and E. G. Steele, Dallas, Tex. Process of and apparatus for progressive electrostatic separation of comminuted material. No. 1,375,741; Apr. 26; v. 285; p. 591.
- Sutton, Henry M., W. L. Steele, and E. G. Steele, Dallas, Tex. Apparatus for separating substances of different dielectric capacities. No. 1,386,287; Aug. 2; v. 289; p. 64.
- Sutz, Eli A., Oakland, Calif. Traffic-signal. No. 1,391,284; Sept. 20; v. 290; p. 502.
- Suydam, Frank W., Brooklyn, assignor to Metal-I. Let Manufacturing Co., Inc., New York, N. Y. Car-seal. No. 1,370,612; Mar. 8; v. 284; p. 208.
- Svebilus, Henry M., Evanston, Ill. Plier-type wrench. No. 1,373,683; Apr. 5; v. 285; p. 59.
- Svec, Andro, Ashley, Pa. Toy roundabout. No. 1,379,486; May 24; v. 286; p. 774.
- Svejda, Jaroslav A., Baltimore, Md. Illuminating-projectile. No. 1,365,865; Jan. 18; v. 282; p. 435.
- Svensden, Charles L. E., Kirkland, and C. A. Johnson, Seattle, Wash. Automatic camera-shutter trip. No. 1,377,528; May 10; v. 286; p. 275.
- Svensen, Carlos B., Buenos Aires, Argentina. Dismountable and portable plant for dipping sheep and the like. No. 1,384,168; July 12; v. 288; p. 238.
- Svenska Aktiebolaget Mono. (See Rodhe, Olof, assignor.)
- Svenson, Sven, La Crosse, Wis. Bait-holder for fishhooks. No. 1,388,386; Aug. 23; v. 289; p. 662.
- Svenson, Tobias, Milwaukee, Wis. Self-clearing propeller. No. 1,390,397; Sept. 13; v. 290; p. 260.
- Svoboda, Ferdinand, Chicago, Ill. Wheeled toy. No. 1,401,873; Dec. 27.
- Swager, Dominic D., Denton, Mont. Tire. No. 1,370,380; Mar. 1; v. 284; p. 118.



*Alphabetical list of patentees—Continued.*

- Swaidmark, Albin P., assignor to Universal Industrial Corporation, Hackensack, N. J. Clamp for hose, &c. No. 1,369,851; Mar. 1; v. 284; p. 19.
- Swaim, Patrick M., Lonoke, Ark. Elevated coasting apparatus. No. 1,392,719; Oct. 4.
- Swain, Charles F. J., Chicago, Ill. Soft collar. No. 1,378,061; May 17; v. 286; p. 431.
- Swain, Edward A. (See Karmire, William J., assignor.)
- Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Demountable-rim construction. No. 1,391,806; Sept. 27; v. 290; p. 680.
- Swain, Joseph G., assignor, by mesne assignments, to The Firestone Steel Products Company, Akron, Ohio. Pressed-steel wheel. No. 1,400,837; Dec. 20.
- Swalm, William E., and W. C. Bryan, Los Angeles, Calif. Image producing or recording apparatus. No. 1,391,807; Sept. 27; v. 290; p. 680.
- Swan, Albert S., Coburg, and J. A. Yeats, Richmond, Victoria, Australia. Chassis for side cars of motorcycles. No. 1,388,387; Aug. 23; v. 289; p. 662.
- Swan, Charles, Cleveland, Ohio. Traction-wheel. No. 1,372,787; Mar. 29; v. 284; p. 787.
- Swan & Finch Company. (See McNeerney, James, assignor.)
- Swan, Fred, Marietta, Ohio. Underreamer. No. 1,372,917; Mar. 29; v. 284; p. 814.
- Swan, Gertrude S., Detroit, Mich. Combined card game and educational apparatus. No. 1,392,977; Oct. 11.
- Swan, Herbert H., Grand Rapids, Mich. Tire. No. 1,393,849; Oct. 18.
- Swan, John C., Marietta, Ohio. Preventing caving in wells. No. 1,379,656; May 31; v. 286; p. 881.
- Swan, John C., Marietta, Ohio. Excluding extraneous fluids from wells. No. 1,379,657; May 31; v. 286; p. 881.
- Swan, John H., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Combination all-ways impact and time fuse. No. 1,374,121; Apr. 5; v. 285; p. 144.
- Swan, John W., Stamford, Conn. System of carburation. No. 1,377,606; May 10; v. 286; p. 290.
- Swan, Judge, Hamilton, Ontario, Canada. Comb. No. 1,382,568; June 21; v. 287; p. 537.
- Swan, Lawrence L., East Liverpool, Ohio. Door-fastener. No. 1,376,233; Apr. 26; v. 285; p. 684.
- Swan, Loran R., Bennington, Vt. Loom-picker. No. 1,387,913; Aug. 16; v. 289; p. 511.
- Swan, Samuel S., Eau Claire, Wis. Permutation-lock. No. 1,384,577; July 12; v. 288; p. 323.
- Swanberg Company, The. (See Swanberg, Julius, assignor.)
- Swanberg, Julius, Chicago, Ill., assignor to The Swanberg Company. Automatic fire-alarm. No. 1,367,899; Feb. 8; v. 283; p. 257.
- Swanberg, Julius, Chicago, Ill., assignor to Fabart Instrument Company. Pencil. No. 1,381,517; June 14; v. 287; p. 278.
- Swaney, Clarence S., Los Angeles, Calif. Rear light for automobiles and the like. No. 1,394,046; Oct. 18.
- Swaney, Jess, Seattle, Wash. Ship-raising apparatus. No. 1,373,574; Apr. 5; v. 285; p. 38.
- Swangren, Edwin V. and V. Maywood, assignor to F. J. Littell Machine Co., Chicago, Ill. Work-piece-feeding mechanism. No. 1,389,790; Sept. 6; v. 290; p. 46.
- Swangren, Victor. (See Swangren, Edwin V. and V.)
- Swank, David L., Davisville, Pa. Automatic car-dump mechanism. No. 1,388,388; Aug. 23; v. 289; p. 663.
- Swank, Lafe, and J. E. Van Deyver, assignors to Dwigins Wire Fence Company, Anderson, Ind. Wire-fence loom. No. 1,380,165; May 31; v. 286; p. 977.
- Swann, Henry C., Spokane, Wash., assignor to G. B. Lewis Company, Watertown, Wis. Electrical uncapping-knife. No. 1,393,921; Oct. 18.
- Swann, Sydney C., Richmond, Va., assignor to Eastman Kodak Company, Rochester, N. Y. Camera. No. 1,394,047; Oct. 18.
- Swann, Sydney C., Richmond, Va., assignor to Eastman Kodak Company, Rochester, N. Y. Reel-actuating device for cameras and the like. No. 1,394,048; Oct. 18.
- Swanson, Andrew W., Seattle, Wash. Parking-device attachment for automobiles. No. 1,387,626; Aug. 16; v. 289; p. 454.
- Swanson, Anton, assignor to The Campbell Wire Specialty Works, South Bend, Ind. Valve-actuating device. No. 1,399,824; Dec. 13.
- Swanson, Axel R., Chicago, Ill. Means for securing tools in boring-bars. No. 1,378,062; May 17; v. 286; p. 431.
- Swanson, Axel R., Chicago, Ill. Boring-bar. No. 1,381,943; June 21; v. 287; p. 419.
- Swanson, Axel W., assignor to The Holmquist-Swanson Company, Chicago, Ill. Gate-hinge. No. 1,365,352; Jan. 11; v. 282; p. 296.
- Swanson, Axel W., assignor to The Holmquist-Swanson Company, Chicago, Ill. Latch device. No. 1,370,928; Mar. 8; v. 284; p. 268.
- Swanson, Frank H., Chicago, Ill., assignor to A. J. Nystrom and Company. Map-case. No. 1,384,874; July 19; v. 288; p. 465.
- Swanson, Frank T., Hayward, Calif. Steam friction device. No. 1,394,952; Oct. 25.
- Swanson, Hilda, Denver, Colo. Polishing compound. No. 1,381,250; June 14; v. 287; p. 229.
- Swanson, Hugo R. (See Contrado, F., Swanson, and Schwartz.)
- Swanson, John E. (See Anderson, C. G., and Swanson.)
- Swanson, John E. (See Green, Charles A., assignor.)
- Swanson, Olaf J., Chappagua, N. Y. Safety device for manholes. No. 1,379,487; May 24; v. 286; p. 774.
- Swanson, Olof, Denver, Colo. Piston-rod lubricator and nut-retainer. No. 1,383,496; July 5; v. 288; p. 49.
- Swanson, Peter, Ely, Minn. Auxiliary arch-bar. No. 1,393,716; Oct. 11.
- Swanson, Peter, and A. Carlson, Ely, Minn. Auxiliary car-step. No. 1,400,577; Dec. 20.
- Swanson, Swan. (See Olson, E. N., and Swanson.)
- Swanson, Swan F., Pueblo, Colo. Steam-boiler. No. 1,375,616; Apr. 19; v. 285; p. 534.
- Swantees, Samuel F., St. Louis, Mo. Lock-garment. No. 1,380,605; June 7; v. 287; p. 53.
- Swanwick, George, et al. (See Park, George I., assignor.)
- Swart, Walter G., F. A. Jordan, E. W. Davis, and T. B. Counselman, Duluth, Minn. Apparatus for magnetic sizing and grading of ore. No. 1,380,871; June 7; v. 287; p. 105.
- Swartwout, Everett W., White Plains, N. Y. Vehicle signaling apparatus. No. 1,365,127; Jan. 11; v. 282; p. 252.
- Swartwout, Everett W., White Plains, N. Y. Uniflow engine. No. 1,390,398; Sept. 13; v. 290; p. 260.
- Swartwout, Everett W., White Plains, N. Y. Steam-motive-power plant. No. 1,390,399; Sept. 13; v. 290; p. 260.
- Swartz, Edward G., New Orleans, La. Lumber-cradle. No. 1,401,206; Dec. 27.
- Swartz, Fred M., Providence, R. I. Clasp. No. 1,374,337; Apr. 12; v. 285; p. 226.
- Swartz, Fred M., Providence, R. I. Clasp. No. 1,384,812; July 19; v. 288; p. 453.
- Swartz, Ira, Breckenridge, Tex. Bailer. No. 1,385,760; July 26; v. 288; p. 723.
- Swartz, William A., York, Pa. Panel-clamp. No. 1,379,882; May 31; v. 286; p. 923.
- Swartz, William H., York, Pa. Dogless-dial attachment for knitting-machines. No. 1,364,218; Jan. 4; v. 282; p. 33.
- Swartzbaugh, Charles E., Toledo, Ohio. Food-conveyer. No. 1,375,121; Apr. 19; v. 285; p. 440.
- Swatzell, David N. (See Smith, W. B., and Swatzell.)
- Swayze, William W., Jr., Wilmington, Del., assignor to American Manganese Steel Company, Augusta, Me. Dredge-frame bushing. No. 1,398,049; Nov. 22.
- Sweareing, Walter E., Montgomery City, Mo. Wrench for battery-terminals. No. 1,401,828; Dec. 27.
- Sweeney, Frank R. (See Torno, Karl L., assignor.)
- Sweebilius, Carl G., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Repeating firearm. No. 1,401,568; Dec. 27.
- Sweeney, Bernard J., assignor to The Conley Foil Company, New York, N. Y. Composite metallic sheet and making the same. No. 1,383,172; June 28; v. 287; p. 706.
- Sweeney, Charles E., Osborne, Manitoba, Canada. Storage-bin. No. 1,380,688; June 7; v. 287; p. 69.
- Sweeney, Eugene J., Rockford, Ill. Plane. No. 1,400,330; Dec. 13.
- Sweeney, Howard L., Oakland, Calif. Automatically-actuated oil-burner. No. 1,395,531; Nov. 1.
- Sweeney, Luke W., Terre Haute, Ind. Railway-tie. No. 1,381,251; June 14; v. 287; p. 229.
- Sweeney, Samuel, Wilkesburg, Pa. Pipe-joint. No. 1,365,805; Jan. 18; v. 282; p. 423.
- Sweeny, Gilbert C., Brooklyn, N. Y. Pouring attachment for cans. No. 1,387,211; Aug. 9; v. 289; p. 318.
- Sweeny, John S., Galveston, Tex. Valve for flushing-tanks. No. 1,382,027; June 21; v. 287; p. 435.
- Sweeny, John S., Galveston, Tex. Flushing-tank for siphon-closets. No. 1,382,028; June 21; v. 287; p. 435.
- Sweet, Arthur J., Milwaukee, Wis. Light-controlling-device holder. No. 1,367,638; Feb. 8; v. 283; p. 207.
- Sweet, Clifford G., San Diego, Calif. Washing-machine. No. 1,389,081; Aug. 30; v. 289; p. 854.
- Sweet, Frederick D., Cleveland, Ohio. Pump. No. 1,400,578; Dec. 20.
- Sweet, Howard M., Detroit, Mich. Plow. No. 1,373,537; Apr. 5; v. 285; p. 31.
- Sweet, Oliver T., St. Louis, Mo. Combination switch and distributing-panel. No. 1,391,916; Sept. 27; v. 290; p. 703.
- Sweet, Parker H., Boonton, N. J. Gln or linter saw. No. 1,365,866; Jan. 18; v. 282; p. 430.
- Sweet, Parker H., Boonton, N. J., assignor to The Barker-Sweet Manufacturing Company, Jamaica, N. Y. Gln or linter saw and making same. No. 1,368,368; Feb. 15; v. 283; p. 396.
- Sweeting, Claude C., Chadwell Heath, England. Plow. No. 1,391,593; Sept. 20; v. 290; p. 564.
- Sweetland, Ernest J., Montclair, N. J. Weight. No. 1,369,057; Feb. 22; v. 283; p. 569.
- Sweetland, Ernest J., Montclair, N. J., assignor, by mesne assignments, to United Filters Corporation. Filter. No. 1,381,944; June 21; v. 287; p. 419.
- Swensen, Alfred. (See Hagey, J. C., and Swensen.)
- Swenson, Carl E. (See Anderson, C. L., and Swenson.)



*Alphabetical list of patentees—Continued.*

- Swenson, Carl E., assignor of one-fourth to L. Faust, one-fourth to E. S. Ekstrom, and one-fourth to C. L. Anderson, Rockford, Ill. Universal joint. No. 1,380,270; May 31; v. 286; p. 996.
- Swenson, Carl J., Port Arthur, Tex. Motorcycle-stand. No. 1,382,330; June 21; v. 287; p. 491.
- Swenson Evaporator Company. (See De Beers, Franklin M., assignor.)
- Swenson, Frank O., Austin, Tex. Door attachment. No. 1,386,541; Aug. 2; v. 289; p. 112.
- Swenson, Gustav, assignor to G. Peterson, New York, N. Y. Concrete-mold construction. No. 1,388,904; Aug. 30; v. 289; p. 818.
- Swett, Arthur H., Chicago, Ill. Envelop. No. 1,371,403; Mar. 15; v. 284; p. 423.
- Swett, Arthur H., assignor to American Tag Company, Chicago, Ill. Shipping-tags. No. 1,386,973; Aug. 9; v. 289; p. 273.
- Swett, Charles E., Boston, assignor of one-half to H. H. Beckwith, Brookline, Mass. Plastic composition. No. 1,365,607; Jan. 11; v. 282; p. 345.
- Swick, Clyde E., San Francisco, Calif., assignor to Hawley Pulp and Paper Company. Interfolded-paper pack. No. 1,378,063; May 17; v. 286; p. 432.
- Swider, Maciej, Utica, N. Y. Globe manipulator. No. 1,366,296; Jan. 18; v. 282; p. 519.
- Swift, George W., Jr., incorporated. (See Duval, Ernest H., assignor.)
- Swift, Herbert D., New York, N. Y., assignor to International Automatic Appliance Corporation. Method of and apparatus for treating metal. No. 1,387,023; Aug. 9; v. 289; p. 283.
- Swift, Lewis B., assignor to Taylor Instrument Companies, Rochester, N. Y. Recording instrument. No. 1,367,520; Feb. 1; v. 283; p. 127.
- Swift, Willard E., Worcester, Mass. Hot-water bottle. No. 1,387,933; Aug. 16; v. 289; p. 519.
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Carton-support. No. 1,371,331; Mar. 15; v. 284; p. 408.
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Envelop. No. 1,371,332; Mar. 15; v. 284; p. 408.
- Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Cabinet for paper drinking-cups. No. 1,379,228; May 24; v. 286; p. 726.
- Swift, Willard E., Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass. Window-envelop. No. 1,388,837; Aug. 23; v. 289; p. 749.
- Swimmer, Robert, New York, N. Y. Soap-dispensing apparatus. No. 1,397,344; Nov. 15.
- Swindale, John W. (See Lee, H. W., and Swindale.)
- Swindell, Herman H., Raleigh, N. C. Bean-harvester. No. 1,401,829; Dec. 27.
- Swindler, Edgar C., Tacoma, Wash., assignor to F. R. Smith. Concrete stairway construction. No. 1,369,493; Feb. 22; v. 283; p. 653.
- Swindowsky, Walter, San Antonio, Tex. Shock-absorber. No. 1,370,854; Mar. 8; v. 284; p. 254.
- Swinehart, Benjamin C., Akron, Ohio. Cushion-tire. No. 1,394,589; Oct. 25.
- Swinehart, James A., Akron, Ohio. Making tires. No. 1,366,220; Jan. 18; v. 282; p. 504.
- Swinscoe, John, assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Camera-shutter. No. 1,393,983; Oct. 18.
- Swint, Wendell R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. High explosive and making same. No. 1,373,844; Apr. 5; v. 285; p. 90.
- Swintek, Martin, Eddyville, Iowa. Traveling screen for suction-nozzles. No. 1,394,693; Oct. 25.
- Swint, Alix, assignor of one-half to J. Moranic and M. Zlotorowicz, Detroit, Mich. Lock. No. 1,390,841; Sept. 13; v. 290; p. 349.
- Swires, James D., assignor of one-half to A. Harris, Detroit, Mich. Fastener. No. 1,391,218; Sept. 20; v. 290; p. 488.
- Swisher, William H., Columbus, Ohio. Drill. No. 1,372,257; Mar. 22; v. 284; p. 644.
- Swissgabel, Charles F., Dayton, Ohio. Chuck. No. 1,401,207; Dec. 27.
- Swivel Hose Coupling Company. (See Kennedy, William H., assignor.)
- Swonger, James M., Mansfield, Ohio. Bridge. No. 1,401,374; Dec. 27.
- Swope, Ralph S., Redfield, S. D. Auto-jack and power mechanism. No. 1,378,632; May 17; v. 286; p. 540.
- Swygart, Edward B., et al. (See Heinle, Albert W., assignor.)
- Sydemann, Abraham. (See Kane, Thomas E., assignor.)
- Sydney, William. (See Graham, L. W. S., and Lindo.)
- Syes, Clarence L., and S. Mitchell, Ault, Colo. Dam or check. No. 1,379,137; May 24; v. 286; p. 709.
- Sylert, William W., assignor of one-half to C. A. Cooper, Tulsa, Okla. Piston-ring. No. 1,392,536; Oct. 4.
- Syglar, Leon A., Newark, N. J. Umbrella. No. 1,397,466; Nov. 15.
- Sykes, George, Penryn, Calif. Article of manufacture. No. 1,391,428; Sept. 20; v. 290; p. 531.
- Sykes, George, assignor to Eagle Engineering Company, Limited, Warwick, England. Tilting-tool. No. 1,384,220; July 12; v. 288; p. 248.
- Sykes, George, assignor to Sykes Standard Fruit Wrap Company, Penryn, Calif. Packing device. No. 1,398,405; Nov. 29.
- Sykes, John E., Manchester, England. Sewing-machine. No. 1,370,069; Mar. 1; v. 284; p. 59.
- Sykes, John P., Wallingford, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Jig for aligning locomotive and like frames. No. 1,369,574; Feb. 22; v. 283; p. 669.
- Sykes, Lewis. (See Everett, Henry A., assignor.)
- Sykes, Lewis, Camden, assignor of one-half to L. G. Buckwalter, Merchantville, N. J. Throttle-valve for pneumatic-tool handles. No. 1,367,570; Feb. 8; v. 283; p. 194.
- Sykes, Martin F., Lawrence, Mass. Staging-support. No. 1,395,308; Nov. 1.
- Sykes Standard Fruit Wrap Company. (See Sykes, George, assignor.)
- Sykes, Wilfred, assignor to Westinghouse Electric and Manufacturing Company, Pittsburgh, Pa. Control system. No. 1,367,106; Feb. 1; v. 283; p. 44.
- Sykes, Wilfred, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Motor-control system. No. 1,368,369; Feb. 15; v. 283; p. 396.
- Sykes, William W., South Richmond, Va. Safety device for throttles. No. 1,392,537; Oct. 4.
- Sykora, Rudolf, Boston, Mass. Producing indefinite coloring design on sheet material. No. 1,370,070; Mar. 1; v. 284; p. 59.
- Sykora, Rudolf, Boston, Mass. Coloring-machine. No. 1,401,504; Dec. 27.
- Sykora, Rudolf, Boston, Mass. Friction-drive mechanism. No. 1,401,505; Dec. 27.
- Syler, Harry B., Norton, Kans. Spring suspension for automobiles and other vehicles. No. 1,398,812; Nov. 29.
- Sylvan, Joseph, Chicago, Ill. Window construction. No. 1,379,061; May 24; v. 286; p. 694.
- Sylvan, Joseph, Chicago, Ill. Ridge construction for skylights and the like. No. 1,401,208; Dec. 27.
- Sylvester, Edward G., Honolulu, Hawaii. Headlight. No. 1,394,694; Oct. 25.
- Sylvester, Seymour, Brookline, assignor to Bass Bros., Incorporated, New York, N. Y. Pellet-inserting machine for piano-keys. No. 1,383,497; July 5; v. 288; p. 49.
- Sylvester, William W., Oakland, assignor to M. B. Moon, San Francisco, Calif. Railway-car. No. 1,389,396; Aug. 30; v. 289; p. 916.
- Sylvestre, Charles, Winnipeg, Manitoba, Canada. Gas-controlling device for linotype-machines. No. 1,396,705; Nov. 8.
- Symington, T. H., Company, The. (See Symington, Thomas H., assignor.)
- Symington, Thomas H., Baltimore, Md., assignor, by mesne assignments, to The T. H. Symington Company, New York, N. Y. Draft-rigging. No. 1,378,633; May 17; v. 286; p. 540.
- Symons, Edwin F., Sloatsburg, N. Y. Key-holder. No. 1,384,497; July 12; v. 288; p. 306.
- Symons, William, Iron River, Mich. Making concrete lined pipe. No. 1,388,619; Aug. 23; v. 289; p. 707.
- Symons, William H., New York, N. Y., and L. M. Klauber; said Klauber assignor to San Diego Consolidated Gas & Electric Company, San Diego, Calif. Remote-controlled switch for high-tension transmission-lines. No. 1,371,379; Mar. 15; v. 284; p. 418.
- Symons, Wilson E., New York, N. Y. Shock-absorbing mechanism. No. 1,396,896; Nov. 15.
- Synck, Henry, assignor, by mesne assignments, to The New Idea Spreader Company, Coldwater, Ohio. Feeding mechanism. No. 1,369,494; Feb. 22; v. 283; p. 653.
- Synck, Henry, assignor, by mesne assignments, to The New Idea Spreader Company, Coldwater, Ohio. Bearing for spreader-shafts. No. 1,389,606; Sept. 6; v. 290; p. 9.
- Synck, Henry, Coldwater, Ohio, and E. B. Rollman, Pittsburgh, Pa., assignors, by mesne assignments, to The New Idea Spreader Company, Coldwater, Ohio. Feeding mechanism. No. 1,392,720; Oct. 4.
- Syndicat Electro-Staal. (See Vermaes, Stefanus J., assignor.)
- Syracuse Chilled Plow Company. (See Spire, Sheldon S., assignor.)
- Syverson, Lena J., Ironton, Minn. Laundry-strainer. No. 1,374,338; Apr. 12; v. 285; p. 226.
- Szakacs, Joseph, and S. Ferencz, Cleveland, Ohio. Life-belt. No. 1,377,033; May 3; v. 286; p. 125.
- Szako, John, Kenosha, Wis. Plane. No. 1,366,297; Jan. 18; v. 282; p. 519.
- Szalay, Joseph, Vicksburg, Miss. Vessel-raising device. No. 1,395,875; Nov. 1.
- Szameit, Mieczyslaw J., assignor of one-half to J. Stelk, Chicago, Ill. Theft-preventing means for vehicles. No. 1,379,292; May 24; v. 286; p. 737.
- Szarvassy, Imre, Budapest, Hungary, and F. H. Bensel, Ratibor, assignors to Rutgerswerke Aktiengesellschaft, Berlin, Germany. Production of soot-carbon, retort-graphite, and other carbon products from natural gas. No. 1,398,751; Nov. 29.
- Szarvasy, Emerich, Budapest, Hungary. Production of fine soot suitable for the manufacture of pigments. No. 1,383,674; July 5; v. 288; p. 67.



*Alphabetical list of patentees—Continued.*

- Szarvasy, Emerich, Budapest, Hungary. Manufacture of carbon electrodes or of pure retort-carbon. No. 1,392,266; Sept. 27; v. 290; p. 774.
- Szarvasy, Emerich, Budapest, Hungary. Manufacture of carbon electrodes. No. 1,392,267; Sept. 27; v. 290; p. 774.
- Szatmary, Jacob, New York, N. Y. Attachment for grinding thread-cutting tools. No. 1,379,370; May 24; v. 286; p. 753.
- Szczurek, Joseph, Chicago Heights, Ill. Air-opener for doors. No. 1,382,143; June 21; v. 287; p. 455.
- Szczygiel, Michal, Fall River, Mass. Station-indicator. No. 1,377,228; May 10; v. 286; p. 218.
- Szlányi, William, New York, N. Y., assignor of one-half to C. H. Kuehl, Hoboken, N. J. Hair-waving process and device. No. 1,400,637; Dec. 20.
- Szmanski, Michael. (See Tworski, Martin, assignor.)
- Szmyd, Frank, Waltersburg, Pa. Utensil implement. No. 1,397,345; Nov. 15.
- Szostek, Wojciech, Three Rivers, Mass. Collapsible chair. No. 1,390,842; Sept. 13; v. 290; p. 349.
- Szucs, Stephen, assignor of one-third to A. Dudas, Homestead, Pa. Agricultural implement. No. 1,391,023; Sept. 20; v. 290; p. 448.
- Szumilas, Jan. (See Czyzowicz, M., and Szumilas, assignors.)
- Szumkowski, Leonard S. (See Janicki, John, assignor.)
- Szumkowski, Leonard S., assignor to Ursus Motor Company, Chicago, Ill. Tractor-tread for vehicle-wheels. No. 1,364,219; Jan. 4; v. 282; p. 33.
- Szütz, Steve, Minneapolis, Minn. Apple-corer. No. 1,371,948; Mar. 15; v. 284; p. 528.
- Szymanske, John R., Somers, Mont. Lumber-handling machine. No. 1,382,396; June 21; v. 287; p. 504.
- Szymkiewicz, Maciej, Jersey City, N. J. Safety-lock. No. 1,383,443; July 5; v. 288; p. 39.
- Szywka, John, Albany, N. Y. Ice-velocipede. No. 1,379,488; May 24; v. 286; p. 775.
- Tabb, Warner T. (See Douglas, T., and Tabb.)
- Taber, Elliott R., Acushnet, Mass. Intake-heater for automobiles. No. 1,376,980; May 3; v. 286; p. 114.
- Taber, George H., Binghamton, N. Y. Spring cover and lubricator. No. 1,387,024; Aug. 9; v. 289; p. 283.
- Taber, George H., Jr. (See Alexander, C. M., and Taber, Jr.)
- Taber, George H., Jr., assignor to Gulf Refining Company, Pittsburgh, Pa. Manufacture of gasolene. No. 1,390,472; Sept. 13; v. 290; p. 274.
- Taber, Percy E. and S. M., deceased, Berkeley, Calif.; R. Taber, administratrix. Tire-dressing wheel. No. 1,395,309; Nov. 1.
- Taber Pump Company. (See Traudt, William F., assignor.)
- Taber, Rock G., Dallas, Tex. Pipe-coating machine. No. 1,375,979; Apr. 26; v. 285; p. 636.
- Taber, Rose, administratrix. (See Taber, Percy E. and S. M.)
- Taber, Samuel M., deceased. (See Taber, Percy E. and S. M.)
- Tabert, Alexander W., West Allis, and J. E. Tisdale, Milwaukee, Wis.; said Tisdale assignor to said Tabert. Spike-straightener. No. 1,389,228; Aug. 30; v. 289; p. 882.
- Tabler, Frank C., assignor to The Anti-Bacilli Company, St. Louis, Mo. Antiseptic mouthpiece for telephones. No. 1,389,914; Sept. 6; v. 290; p. 72.
- Tabler, John H., Lanham, Md. Attachment for vehicle-tops. No. 1,365,010; Jan. 11; v. 282; p. 231.
- Tabor, Clarence E. (See Georgeson, F. F., Tabor, and Poylaire.)
- Tabor, Robert B., Independence, assignor of one-half to C. E. Ransier, Waterloo, Iowa. Image-projecting means. No. 1,372,573; Mar. 22; v. 284; p. 704.
- Tabor, Thomas H., Ellijay, Ga. Quoit. No. 1,379,883; May 31; v. 286; p. 923.
- Tabor, William A. (See Baker, L. S., and Tabor.)
- Tabulating Machine Company, The. (See Knistrom, August, assignor.)
- Tabulating Machine Company, The. (See Lake, Clair D., assignor.)
- Tacchella, Adolf, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Piston-cooling system. No. 1,366,753; Jan. 25; v. 282; p. 654.
- Tacchella, Adolf, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Governor-controlled combustion-engine. No. 1,394,953; Oct. 25.
- Tacchella, Adolf, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine injection-valve. No. 1,396,978; Nov. 15.
- Tactikos, Louis A., Greenwich, Conn. Heater. No. 1,389,397; Aug. 30; v. 289; p. 916.
- Taffee, Leo H. (See Johnson, A. E., and Taffee.)
- Taffee, Leo H., assignor to Hastings Manufacturing Company, Hastings, Mich. Automobile-bumper. No. 1,365,745; Jan. 18; v. 282; p. 411.
- Taffee, Leo H., assignor to Hastings Manufacturing Company, Hastings, Mich. Bumper for automobiles. No. 1,365,746; Jan. 18; v. 282; p. 411.
- Taft Carburetor Company, The. (See Taft, Walter E., assignor.)
- Taft, John A., San Antonio, assignor, by mesne assignments, to H. H. Dickson, Harris county; G. R. Bennett, Travis county; J. M. Bennett and S. J. Brooks, Bexar county, Tex. Condenser for cotton-presses. No. 1,379,229; May 24; v. 286; p. 726.
- Taft, John H. (See Ailes, Adrian S., assignor.)
- Taft-Peirce Manufacturing Company, The. (See Bryant, Elmer J., assignor.)
- Taft-Peirce Manufacturing Company, The. (See Martell, Albert A., assignor.)
- Taft-Peirce Manufacturing Company, The. (See Simmons, Frank L., assignor.)
- Taft, Sydney E., Framingham, Mass., assignor to Spartan Needle Company, Providence, R. I. Knitting-needle. No. 1,398,813; Nov. 29.
- Taft, Walter, Wilmington, N. C. Helicopter. No. 1,373,775; Apr. 5; v. 285; p. 76.
- Taft, Walter E., Providence, R. I., assignor to The Taft Carburetor Company, Hartford, Conn. Carburetor. No. 1,394,452; Oct. 18.
- Tag Sewing Machine Company, The. (See Rosenthal, Arthur and M. G., assignors.)
- Taggard, George H., Walla Walla, Wash. Cooling-jacket for internal-combustion engines. No. 1,386,381; Aug. 2; v. 289; p. 82.
- Taggart, Bridget R., Mount Vernon, N. Y. Demountable wheel. No. 1,371,710; Mar. 15; v. 284; p. 483.
- Taggart, Dawson M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,393,465; Oct. 11.
- Taggart, Dawson M., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Artificial busy-circuits. No. 1,400,103; Dec. 13.
- Taggart, Joseph W. (See Baker, James E., assignor.)
- Taggart, Thomas M., Belvedere, Calif. Gasifier for low-gravity oils. No. 1,392,463; Oct. 4.
- Taggart, William P., deceased, Reading, by H. Stearly, administratrix, Philadelphia, Pa., assignor to The United States Coal Manufacturing Company. Making briquets and products thereof. No. 1,396,603; Nov. 8.
- Tagliabue, Charles J., Manufacturing Co. (See Roesch, Alfred, assignor.)
- Tague, George O., Frindsbury, Rochester, England. Machine for the automatic and continuous manufacture of glass bottles. No. 1,373,272; Mar. 29; v. 284; p. 884.
- Taigman, Max, New York, N. Y. Electrically-controlled transmission. No. 1,378,146; May 17; v. 286; p. 447.
- Taifnopoulos, Demetrios, New York, N. Y. Moving-picture camera and projector. No. 1,368,860; Feb. 15; v. 283; p. 492.
- Tainter, Charles B. (See Lenholt, John E., assignor.)
- Tainter, Willis W., Dixfield, Me. Machine for rounding splints. No. 1,366,035; Jan. 18; v. 282; p. 468.
- Tainton, Uryln C., Martinez, Calif. Electrode for electrolytic recovery of metals from solutions. No. 1,373,273; Mar. 29; v. 284; p. 884.
- Taisey, Fred R., Lowell, assignor to The Lamson Company, Boston, Mass. Pneumatic-despatch-tube carrier. No. 1,393,466; Oct. 11.
- Tait, Godfrey M. S., assignor to American Pasteurizer Company, Inc., Washington, D. C. Temperature-controller. No. 1,382,569; June 21; v. 287; p. 537.
- Tait, Godfrey M. S., Washington, D. C. Apparatus for the progressive heating or cooling of milk-bottles and other containers. No. 1,393,717; Oct. 11.
- Tait, Godfrey M. S., Washington, D. C. Container and cap therefor. No. 1,399,671; Dec. 6.
- Tait, Wilfred E., and W. Milnes, Winthrop, Mass. Chuck. No. 1,379,658; May 31; v. 286; p. 881.
- Tait, William S., assignor to Hydraulic Pressed Steel Company, Cleveland, Ohio. Joist-bracket. No. 1,398,579; Nov. 29.
- Taite & Carlton. (See Bell, Arthur M., assignor.)
- Tajima, Yoshiuji, Osakafu, Japan. Water-gate or gage-cock. No. 1,373,274; Mar. 29; v. 284; p. 884.
- Takagi, Kisaburo. (See Matsumoto, K., and Takagi.)
- Takamine, Jokichi, Jr. (See Takamine, Jokichi, and J., Jr.)
- Takamine, Jokichi, New York, N. Y., and J. Takamine, Jr., Clifton, N. J. Enzymic substance and making the same. No. 1,391,219; Sept. 20; v. 290; p. 488.
- Talarico, Frank, Philadelphia, Pa. Talking-machine. No. 1,388,980; Aug. 30; v. 289; p. 833.
- Talbot, Harry P., et al. (See Boswell, David A., assignor.)
- Talbot, Benjamin, Solberge, North Allerton, England. Metallurgical furnace. No. 1,383,444; July 5; v. 288; p. 39.
- Talbot, C. Burckhart. (See Tiller, D. M., Hall, Talbot, and Hazen.)
- Talbot, George H., Newtonville, Mass. Building-block. No. 1,378,735; May 17; v. 286; p. 560.
- Talbot, Henry H., St. Joseph, Mo. Bedstead. No. 1,394,695; Oct. 25.
- Talbot, Russell A., Cranston, R. I. Cigarette-case. No. 1,379,659; May 31; v. 286; p. 882.
- Talbot, Edward J., et al., trustees. (See Geoghegan, Edward A., assignor.)
- Taliaferro, Edward E., Colorado Springs, Colo. Weight-motor talking-machine. No. 1,366,508; Jan. 25; v. 282; p. 605.



## Alphabetical list of patentees—Continued.

- Taliaferro, John C., Baltimore, Md., assignor to Continental Can Company, Incorporated, Syracuse, N. Y. Combined filling and closing machine. No. 1,364,653; Jan. 4; v. 282; p. 117.
- Taliaferro, Thomas L., Chicago, Ill. Jar-closure. No. 1,378,295; May 17; v. 286; p. 475.
- Taliaferro, Thomas L., Chicago, Ill. Jar-closure. No. 1,381,364; June 14; v. 287; p. 250.
- Taliaferro, Thomas L., Chicago, Ill. Bottle-cap and sealing bottles. No. 1,381,365; June 14; v. 287; p. 250.
- Taliaferro, Thomas L., Chicago, Ill. Forming closures for receptacles. No. 1,383,877; July 5; v. 288; p. 128.
- Taliaferro, Thomas L., Chicago, Ill. Hermetic friction-closure for jars. No. 1,386,742; Aug. 9; v. 289; p. 226.
- Taliaferro, Thomas L., Chicago, Ill., assignor to Phoenix-Hermetic Company, Brooklyn, N. Y. Cover for jars. No. 1,381,363; June 14; v. 287; p. 250.
- Taliaferro, Thomas L., assignor to Phoenix Hermetic Company, Chicago, Ill. Apparatus for drying lithographed metal sheets. No. 1,399,415; Dec. 6.
- Talla, Heinrich, Heilbronn-on-the-Neckar, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Process and device for casting metals and other materials under an explosive-like pressure into molds. No. 1,372,843; Mar. 29; v. 284; p. 798.
- Talley, Charles H., Aurora, Ill. Awning-fixture. No. 1,386,446; Aug. 2; v. 289; p. 94.
- Talley, John E., and J. W. Thompson, Philadelphia, Pa. Display apparatus. No. 1,393,050; Oct. 11.
- Talotta, Carmine, Clementon, Pa. Changeable indicator. No. 1,394,234; Oct. 18.
- Talty, James J., Harriman, Pa. Bolt. No. 1,374,615; Apr. 12; v. 285; p. 281.
- Tamamura, Yusuke, Tokyo-fu, Japan. Differential clip for aerial ropeways. No. 1,392,978; Oct. 11.
- Tamarin, Abraham and F. T., and M. Hendler, assignors to Komfyttite Spring and Bed Corporation, Hudson, N. Y. Bed-spring. No. 1,394,511; Oct. 18.
- Tamarin, Abraham and F. T., and M. Hendler, assignors to Komfyttite Spring and Bed Corporation, Hudson, N. Y. Adjustable bedstead. No. 1,394,512; Oct. 18.
- Tamarin, Bernard J., Philadelphia, Pa. Lens for headlights. No. 1,382,871; June 28; v. 287; p. 648.
- Tamarin, Frank. (See Tamarin, Abraham and F., and Hendler.)
- Tambach, Rudolf, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing tannic acid compound of the digitalisglycosids. No. 1,391,705; Sept. 27; v. 290; p. 660.
- Tanborello, Frank, Milwaukee, Wis. Vehicle brake mechanism. No. 1,393,051; Oct. 11.
- Tamini, Mario, Milan, Italy. Rotary pump. No. 1,392,090; Sept. 27; v. 290; p. 738.
- Tamura, Shinkichi, Kobe, and M. Watanabe, Tokyo, Japan, said Watanabe assignor to said Tamura. Supporting apparatus for the rear-wheel shaft of a motor-car. No. 1,388,389; Aug. 23; v. 289; p. 663.
- Tandy, John L., Tulsa, Okla. Sickle-bearing for mowers. No. 1,381,518; June 14; v. 287; p. 278.
- Tanenbaum, Michael, Brooklyn, N. Y. Drill. No. 1,398,814; Nov. 29.
- Tangeman, Julian J. (See Ritzel, Conrad, assignor.)
- Tangen, Alfred, Detroit, Mich. Micrometer. No. 1,385,405; July 26; v. 288; p. 650.
- Tankersley, William, Denver, assignor of one-tenth to E. B. Smith, Colorado Springs, Colo. Wrench. No. 1,372,662; Mar. 22; v. 284; p. 721.
- Tanking, William T., Jr., Racine, Wis. Support. No. 1,393,052; Oct. 11.
- Tannehill, Arthur L., Gary, Ind. Producing artificial resin. No. 1,389,791; Sept. 6; v. 290; p. 47.
- Tannenbaum, Abraham, Brooklyn, N. Y. Garment-hanger. No. 1,381,439; June 14; v. 287; p. 263.
- Tannenbaum, Robert, Cincinnati, Ohio. Concrete-form. No. 1,367,214; Feb. 1; v. 283; p. 66.
- Tanner, Arthur R. W., Little Sutton, England. Nail-container and nail-delivering device. No. 1,393,536; Oct. 11.
- Tanner, Benjamin H., New York, N. Y., assignor to The Miller-Bryant-Pierce Company, Aurora, Ill. Ribbon-attaching means. No. 1,368,415; Feb. 15; v. 283; p. 404.
- Tanner, Bertrand M. (See Miller, F. A., and Tanner.)
- Tanner, Earl T., Des Moines, Iowa. Automobile-lock. No. 1,393,182; Oct. 11.
- Tanner, Elmer A., Delta, Iowa. Automobile-lock. No. 1,382,570; June 21; v. 287; p. 537.
- Tanner Engineering Company, The. (See Tanner, Harry L., assignor.)
- Tanner, Frederick T., Croydon, England. Orthopedic appliance. No. 1,373,211; Mar. 29; v. 284; p. 872.
- Tanner, Harry L. (See Ford, H. C., and Tanner.) (Re-issue.)
- Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Potential-regulating system. No. 1,374,165; Apr. 5; v. 285; p. 152.
- Tanner, Harry L., assignor to The Tanner Engineering Company, Inc., Brooklyn, N. Y. Dynamo-field regulator. No. 1,377,229; May 10; v. 286; p. 218.
- Tanner, Harry L., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Electrical distribution system for gyroscopic compasses. No. 1,378,296; May 17; v. 286; p. 475.
- Tanner, Inos B., assignor to J. E. Nelson & Sons, Chicago, Ill. Filtering apparatus. No. 1,398,285; Nov. 29.
- Tanner, Rudolf A. (See Ekern, A., and Tanner.)
- Tanner, Sheridan C., Relay, Md. Safety brush-brake for railway motor-cars. No. 1,385,729; July 26; v. 288; p. 717.
- Tanners Products Company. (See Gallagher, Alfred H., assignor.)
- Tanquery, William, Selma, Ala. Folding desk or cabinet. No. 1,371,987; Mar. 15; v. 284; p. 535.
- Tanski, Stanly, East Vandergrift, Pa. Mousetrap. No. 1,375,980; Apr. 26; v. 285; p. 636.
- Taper, Robert T., et al. (See Anderson, George A., assignor.)
- Taplex Corporation. (See Fritzsche, George H., assignor.)
- Taplin, George C., Brookline, Mass. Operating-table. No. 1,399,034; Dec. 6.
- Taplin, William M., assignor of one-half to C. Schroeder, St. Louis, Mo. Sash-fastener. No. 1,391,429; Sept. 20; v. 290; p. 531.
- Taprell Loomis & Company. (See Cameron, James A., assignor.)
- Tapscott, John C., El Paso, Tex. Toupee and wig retainer. No. 1,378,147; May 17; v. 286; p. 448.
- Taranto, John, Waltham, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,369,990; Mar. 1; v. 284; p. 45.
- Tarasoff, John, New York, N. Y. Cutting system. No. 1,397,302; Nov. 15.
- Tarbox, John P., assignor to Tarbox Safety Aircraft Co., Washington, D. C. Interlocking balancing system. No. 1,367,839; Feb. 8; v. 283; p. 246.
- Tarbox, John P., Garden City, N. Y., assignor to Tarbox Safety Aircraft Co., Washington, D. C. Interlocking balancing system for aircraft. No. 1,367,840; Feb. 8; v. 283; p. 247.
- Tarbox, John P., Buffalo, N. Y. Machine for forming razor-blades. No. 1,370,381; Mar. 1; vol. 284; p. 118.
- Tarbox Safety Aircraft Co. (See Tarbox, John P., assignor.)
- Tarjan, Andor, Vienna, Austria. Lock. No. 1,374,616; Apr. 12; v. 285; p. 281.
- Tarkington, Harry K., assignor of one-half to H. L. Babcock, Chicago, Ill. Carbuureter. No. 1,398,707; Nov. 29.
- Tarrant, Charles J., Central, S. C. Spinning-ring and ball-bearing traveler therefor. No. 1,372,844; Mar. 29; v. 284; p. 798.
- Tarvin, John C., deceased, Maryville, Tenn.; M. C. Tarvin, administratrix. Pulverizer. No. 1,397,467; Nov. 15.
- Tarvin, Mary C., administratrix. (See Tarvin, John C.)
- Tate, Alfred O., New York, N. Y. Lookout device. No. 1,369,058; Feb. 22; v. 283; p. 560.
- Tate, Alfred O., New York, N. Y. Dyeing and waterproofing. No. 1,374,122; Apr. 5; v. 285; p. 144.
- Tate, Alfred O., New York, N. Y. Apparatus for treating light and similar rays. No. 1,374,965; Apr. 19; v. 285; p. 410.
- Tate, Alfred O., New York, N. Y. Windshield for vehicles. No. 1,388,214; Aug. 23; v. 289; p. 627.
- Tate, Alfred O., New York, N. Y. Calender-roll. No. 1,388,215; Aug. 23; v. 289; p. 627.
- Tate, Alfred O., New York, N. Y. Waterproofing substance for fibrous material. No. 1,400,579; Dec. 20.
- Tate, Joshua A., St. Louis, Mo. Burglar-trap. No. 1,393,183; Oct. 11.
- Tate, Lena H., Carbondale, Pa. Composition for stopping perspiration. No. 1,371,822; Mar. 15; v. 284; p. 504.
- Tate, Perl J., Big Pine, Calif. Plow and pulverizer. No. 1,395,370; Nov. 1.
- Tate, Ralph M., et al. (See Todd, Samuel J., assignor.)
- Tate, Samuel G., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,370,164; Mar. 1; vol. 284; p. 77.
- Tate, Samuel G., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine. No. 1,370,165; Mar. 1; vol. 284; p. 78.
- Tate, Samuel G., assignor to Union Special Machine Company, Chicago, Ill. Stitch-forming mechanism for sewing-machines. No. 1,371,652; Mar. 15; v. 284; p. 472.
- Tate-Smith, Mary D., West Orange, N. J. Brassiere. No. 1,394,235; Oct. 18.
- Tatosian, Martin, Bridgeport, Conn. Polishing-machine. No. 1,395,163; Oct. 25.
- Tatton, Job, North Bay, Ontario, Canada. Jack. No. 1,391,594; Sept. 20; v. 290; p. 565.
- Tatum, James W., assignor to Shaker-Dump Coal-Grate Co., Durham, N. C. Coal-grate. No. 1,389,792; Sept. 6; v. 290; p. 47.
- Tatum, John J., Baltimore, Md. Safety-hanger for brake rods. No. 1,373,575; Apr. 5; v. 285; p. 38.
- Tatum, John J., Baltimore, Md. Brake-beam support. No. 1,385,730; July 26; v. 288; p. 717.
- Taufer, Fred, Meadow Lands, Pa. Game. No. 1,392,979; Oct. 11.
- Tausch, Steven, Spokane, Wash. Weeding implement. No. 1,386,141; Aug. 2; v. 289; p. 36.
- Tauscher, John, assignor to Stokes & Smith Company, Philadelphia, Pa. Controlling mechanism for pneumatic sheet-feeders. No. 1,367,331; Feb. 1; v. 283; p. 89.
- Taussig, Gottlieb, New York, N. Y. Machine for coloring motion-picture films. No. 1,396,791; Nov. 15.



- Taussig, Gottlieb, New York, N. Y. Coloring motion-picture films. No. 1,398,286; Nov. 29.
- Taussig, Joseph, Chicago, Ill. Sign-holder. No. 1,384,106; July 12; v. 288; p. 225.
- Taylor, Albert H., Grand Forks, N. D. Simultaneous transmission or reception of speech and signals. No. 1,376,051; Apr. 26; v. 285; p. 650.
- Taylor, Arthur K., assignor to Taylor Registering Projector Company, Baltimore, Md. Printing-block and making the same. No. 1,378,573; May 17; v. 286; p. 528.
- Taylor, Arthur W., Manchester, England. Apparatus for displaying garments and like articles. No. 1,393,327; Oct. 11.
- Taylor, Augustus. (See Elliott, Harold F., assignor.)
- Taylor, Blake, Roanoke, Va. Dumping mechanism for trucks. No. 1,383,498; July 5; v. 288; p. 50.
- Taylor, Blake, Roanoke, Va. Body for trucks. No. 1,388,008; Aug. 16; v. 289; p. 530.
- Taylor, Burt E., Mount Vernon, assignor to The Borden Company, New York, N. Y. Can-charging apparatus. No. 1,373,275; Mar. 29; v. 284; p. 885.
- Taylor, Burt E., Mount Vernon, assignor to The Borden Company, New York, N. Y. Apparatus for treating and canning milk. (Reissue.) No. 15,172; Aug. 2; v. 289; p. 123.
- Taylor, Burt E., Mount Vernon, assignor to The Borden Company, New York, N. Y. Can-charging apparatus. No. 1,393,406; Oct. 11.
- Taylor, Carrie E., Los Angeles, Calif. Framing and attaching means for windows. No. 1,372,048; Mar. 22; v. 284; p. 604.
- Taylor, Charles, Kearsley, near Manchester, England. Method of bleaching and apparatus therefor. No. 1,396,792; Nov. 15.
- Taylor, Charles H., Crosby, Minn. Automatic phonograph-stop. No. 1,400,638; Dec. 20.
- Taylor, Charles W. A., Dunston-on-Tyne, England. Rudder-brake. No. 1,401,290; Dec. 27.
- Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Tire-rolling mill. No. 1,372,049; Mar. 22; v. 284; p. 604.
- Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Boring-lath. No. 1,388,905; Aug. 30; v. 289; p. 818.
- Taylor, Daniel E., Willimantic, Conn., assignor to The L. D. Caulk Co., Milford, Del. Filling teeth and dental matrix for use therein. No. 1,379,489; May 24; v. 286; p. 775.
- Taylor, Edward C., Ann Arbor, Mich. Terminal-transfer-cost chart. No. 1,369,852; Mar. 1; vol. 284; p. 19.
- Taylor, Edward L., Long Beach, Calif. Woodworking-machine. No. 1,372,374; Mar. 22; v. 284; p. 666.
- Taylor, Edwin N., Cedar Rapids, Iowa. Ladder-support. No. 1,393,922; Oct. 18.
- Taylor, Elmer E., Logansport, Ind. Sound-concentrator for telephone-transmitters. No. 1,377,940; May 10; v. 286; p. 356.
- Taylor, Everton. (See Williams, O. A., and Sharps, assignors.)
- Taylor, Emma A., *et al.*, executrices. (See Taylor, James L.)
- Taylor, Ernest I. (See Casali, Antonio, assignor.)
- Taylor, Floyd T., and W. F. Hall, assignors to Munting-Loeb Company, Matawan, N. J. Cylinder for electroplating apparatus and the like. No. 1,376,052; Apr. 26; v. 285; p. 650.
- Taylor, Floyd T., Matawan, assignor to A. P. Munting & Co., Newark, N. J. Conveying mechanism. No. 1,382,144; June 21; v. 287; p. 456.
- Taylor, George G., assignor to American Writing Paper Company, Holyoke, Mass. Bleaching vegetable fibers. No. 1,381,440; June 14; v. 287; p. 264.
- Taylor, George L., Rochester, N. Y. Graduating-machine. No. 1,393,923; Oct. 18.
- Taylor, George W., Everett, Mass. Tread for tires. No. 1,378,148; May 17; v. 286; p. 448.
- Taylor, Gorbam A., Duluth, Minn. Cable-equalizer. No. 1,399,326; Dec. 6.
- Taylor, Halsey W., Warren, Ohio. Drinking-fountain. No. 1,367,997; Feb. 8; v. 283; p. 275.
- Taylor, Halsey W., Warren, Ohio. Sanitary drinking-fountain. No. 1,372,845; Mar. 29; v. 284; p. 799.
- Taylor, Harold B., Wilkesburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, Electrical measuring instrument. No. 1,386,034; Aug. 2; v. 289; p. 15.
- Taylor, Harry C., West Frankfort, Ill. Automatic train-stop. No. 1,371,206; Mar. 8; v. 284; p. 320.
- Taylor, Harry G. (See Close, H. M., and Taylor.)
- Taylor, Harry M., Cleveland, Ohio. Washing-machine. No. 1,369,495; Feb. 22; v. 283; p. 653.
- Taylor, Harry P., Los Angeles, Calif., assignor to Stromberg Motor Devices Company, Chicago, Ill. Locking means for automobiles. No. 1,369,308; Feb. 22; v. 283; p. 617.
- Taylor, Harry P., Los Angeles, Calif., assignor to Stromberg Motor Devices Company, Chicago, Ill. Locking means for automobiles. No. 1,377,291; May 10; v. 286; p. 230.
- Taylor, Henry H. (See Hammond, M. B., and Taylor.)
- Taylor, Henry O., Rockford, Ill. Machine for repairing cues and the like. No. 1,395,236; Oct. 25.
- Taylor, Henry S., Dallas, Tex. Book-support and writing-table. No. 1,377,230; May 10; v. 286; p. 218.
- Taylor, Henry W., Bilton, and F. H. Clough, Rugby, England, assignors to General Electric Company. Winding for dynamo-electric machines. No. 1,390,063; Sept. 6; v. 290; p. 102.
- Taylor, Henry W., Bilton, and F. H. Clough, Rugby, England, assignors to General Electric Company. Winding for dynamo-electric machines. No. 1,390,064; Sept. 6; v. 290; p. 102.
- Taylor, Herbert, assignor of one-half to T. H. Barnard, Hamilton, Ontario, Canada. Crib attachment for motor-cars and the like. No. 1,377,607; May 10; v. 286; p. 290.
- Taylor, Horace V. S., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical switch. No. 1,368,370; Feb. 15; v. 283; p. 396.
- Taylor, Hugh S. (See Rideal, E. K., and Taylor.)
- Taylor, Huston, assignor to Detroit Carrier & Manufacturing Company, Detroit, Mich. Tire-pump. No. 1,369,059; Feb. 22; v. 283; p. 569.
- Taylor Instrument Companies. (See Swift, Lewis I., assignor.)
- Taylor, James A., Waco, Ky. Eyeglass-holder. No. 1,376,234; Apr. 26; v. 285; p. 685.
- Taylor, James C., Dayton, Ohio. Toy whistle. No. 1,383,878; July 5; v. 288; p. 128.
- Taylor, James H., Owensboro, Ky. Dental surgical instrument. No. 1,386,288; Aug. 2; v. 289; p. 65.
- Taylor, James H., Owensboro, Ky. Dental surgical instrument. No. 1,386,289; Aug. 2; v. 289; p. 65.
- Taylor, James L., deceased, Poughkeepsie, N. Y.; E. A. Taylor and E. A. Matthews, executrices. Clamp. No. 1,393,718; Oct. 11.
- Taylor, James T., Fort Worth, Tex. Box bull and calf wheel gudgeon. No. 1,385,026; July 19; v. 288; p. 497.
- Taylor, John, Brooklyn, N. Y. Bolt and its installation. No. 1,373,640; Apr. 5; v. 285; p. 50.
- Taylor, John, Salt Lake City, Utah. Coal-dust furnace. No. 1,373,776; Apr. 5; v. 285; p. 76.
- Taylor, John D., Kingston Hill, England. Vacuum drying-oven. No. 1,365,207; Jan. 11; v. 282; p. 267.
- Taylor, John D. (See Dillard, W. J., and Taylor.)
- Taylor, John S., Norfolk, Va., assignor, by mesne assignments, to Premier Motor Corporation of America. Combined manifold and rotary distributing-valve for internal-combustion engines. No. 1,378,431; May 17; v. 286; p. 501.
- Taylor, John W. (See Clay, W. L., and Taylor.)
- Taylor, John W., Edwardsville, Kans. Convertible harrow and drag. No. 1,395,459; Nov. 1.
- Taylor, Joseph B. (See Milliken, Humphreys, assignor.)
- Taylor, Jules B., Toledo, Ohio. Gearing. No. 1,387,813; Aug. 16; v. 289; p. 492.
- Taylor, Levin G., Tampa, Fla. Combination seat and bed for automobiles. No. 1,390,177; Sept. 6; v. 290; p. 124.
- Taylor, Lewis H., Jr., *et al.* (See Bair, Joseph H., assignor.)
- Taylor, Loyd R. (See Mulertz, Catharine D., assignor.)
- Taylor, Maurice C., Niagara Falls, N. Y., assignor to N. D. Baker, Secretary of War, trustee. Making chromous chlorid. No. 1,369,204; Feb. 22; v. 283; p. 597.
- Taylor, Milton C., Chicago, Ill., assignor, by mesne assignments, to Wahl Company, Wilmington, Del. Fountain-pen. No. 1,391,430; Sept. 20; v. 290; p. 532.
- Taylor, Milan R. (See Hedtler, R. S., and Taylor.)
- Taylor, Oliver P., Rockland, Me. Attachment for engines. No. 1,377,608; May 10; v. 286; p. 290.
- Taylor, Percival, Bolton, assignor of one-half to Jabez Johnson Hodgkinson and Pearson Limited, Manchester, Lancaster, England. Terry or looped fabric. No. 1,398,752; Nov. 29.
- Taylor, Raymond R., Rochester, N. Y. Dental X-ray-film packet. No. 1,394,503; Oct. 18.
- Taylor Registering Projector Company. (See Taylor, Arthur K., assignor.)
- Taylor, Richard R. (See Randall, C. J., and Taylor.)
- Taylor, Ritchie O., assignor of one-half to J. Heinze, Detroit, Mich. Window for vehicle-curtains. No. 1,380,606; June 7; v. 287; p. 53.
- Taylor, Robert W., Sr., Kalamazoo, Mich., assignor to Evansville Arbor Press Company, Evansville, Ind. Mandrel-press. No. 1,397,910; Nov. 22.
- Taylor, Ross M., Allegan, Mich. Pipe-bowl and making the same. No. 1,368,371; Feb. 15; v. 283; p. 396.
- Taylor, Samuel W., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Bottle-capping apparatus. No. 1,392,980; Oct. 11.
- Taylor, Silas L., Wileville, W. Va. Wrench. No. 1,385,506; July 26; v. 288; p. 671.
- Taylor, Silas P., assignor to Tennessee Implements Sales Co., Loretto, Tenn. Fertilizer-distributor. No. 1,368,303; Feb. 15; v. 283; p. 383.
- Taylor-Southard Company. (See Southard, Alfred M., assignor.)
- Taylor, Stephen J., *et al.* (See Binns, John B., assignor.)
- Taylor, Theodore F., Philadelphia, Pa. Agitator. No. 1,386,809; Aug. 9; v. 289; p. 239.
- Taylor, Thomas. (See Reid, F. C., and Taylor.)
- Taylor, Thomas, Chicago, Ill. Golf-club. No. 1,396,470; Nov. 8.



## Alphabetical list of patentees—Continued.

- Taylor, Thomas S., Baker, Oreg. Device for supporting a display-case on a cash-register. No. 1,366,848; Jan. 25; v. 282; p. 673.
- Taylor, Thos. P., Company, The. (See Hammond, M. B., and Taylor, assignors.)
- Taylor, Walter H., Guelph, Ontario, Canada. Surgical wound-dam. No. 1,379,660; May 31; v. 286; p. 882.
- Taylor, Walter H., Guelph, Ontario, Canada. Surgical wound-dam. No. 1,385,346; July 19; v. 288; p. 562.
- Taylor-Wharton Iron and Steel Company. (See Apgar, Stanley, assignor.)
- Taylor-Wharton Iron and Steel Company. (See Mayer, Waldemar F., assignor.)
- Taylor, William, Leicester, England. Apparatus for sawing glass. No. 1,385,731; July 26; v. 288; p. 717.
- Taylor, William, Leicester, England. Glass-cutting apparatus. No. 1,385,732; July 26; v. 288; p. 718.
- Taylor, William, Leicester, England. Grinding glass. No. 1,401,830; Dec. 27.
- Taylor, William, Leicester, England. Method of and apparatus for grinding glass. No. 1,401,831; Dec. 27.
- Taylor, William, Leicester, England. Method of grinding glass. No. 1,401,832; Dec. 27.
- Taylor, William C. (See Sullivan, E. C., and Taylor.)
- Taylor, William H., Hull, Tex. Rotary well-drilling machine. No. 1,386,908; Aug. 9; v. 289; p. 260.
- Taylor, William H., Des Moines, Iowa. Window-frame and chute structure. No. 1,390,178; Sept. 6; v. 290; p. 125.
- Taylor, William H., Charleroi, Pa., assignor to Pittsburgh Plate Glass Company. Method for producing flat parallel-sided glass sheets. No. 1,398,050; Nov. 22.
- Taylor, William H., and W. R. Watts, Bonner Springs, Kans. Railway-tie. No. 1,398,119; Nov. 22.
- Taylor, William O., Montreal, Quebec, Canada. Motor-support for sewing-machines. (Reissue.) No. 15,117; May 31; v. 286; p. 1010.
- Taylor, Willson B., Uniontown, Pa. Swing or hammock hanger. No. 1,389,538; Aug. 30; v. 289; p. 944.
- Taylor's. (See Wadsworth, Perry C., assignor.)
- Tchoubritsch, Michel. (See Vasseur, L. E., and Tchoubritsch.)
- Teagle Company, The. (See Brandt, Paul H., assignor.)
- Teagle Company, The. (See Milton, John L., assignor.)
- Teale, Oscar S., Bloomfield, N. J., assignor to G. H. Wiley, New York, N. Y. Retouching-machine. No. 1,386,909; Aug. 9; v. 289; p. 260.
- Teale, Oscar S., Bloomfield, N. J., assignor to G. H. Wiley, New York, N. Y. Retouching-machine. No. 1,386,910; Aug. 9; v. 289; p. 260.
- Teall, Raymond E., et al. (See Noah, Leroy H., assignor.)
- Teall, Russell F., Toledo, Ohio, assignor to C. J. Willis, Ann Arbor, Mich. Toaster. No. 1,375,122; Apr. 19; v. 285; p. 440.
- Teas, Daniel H., Chicago, Ill., and A. Wood, Hamilton, Ohio, assignors to Niles-Bement-Pond Company, New York, N. Y. Journal turning and burnishing, quartering, and crank-pin-turning machine. No. 1,370,715; Mar. 8; v. 284; p. 228.
- Teas, Daniel H., Chicago, Ill., and A. Wood, Hamilton, Ohio, assignors to Niles-Bement-Pond Company, New York, N. Y. Quartering and crank-pin-turning machine. No. 1,397,468; Nov. 15.
- Tebbetts, Frank P., Portland, Oreg. Messing equipment. No. 1,373,155; Mar. 29; v. 284; p. 861.
- Tebbetts, Frank P., Portland, Oreg. Messing equipment. No. 1,373,156; Mar. 29; v. 284; p. 861.
- Techmer, Fred W. A., La Crosse, Wis. Folding table. No. 1,368,666; Feb. 15; v. 283; p. 454.
- Technicolor Motion Picture Corporation. (See Comstock, Daniel F., assignor.)
- Techno-Service Corporation. (See Gremmels, Felix, assignor.)
- Tedesco, Arrigo, assignor to Società Anonima Stabilimenti Biak, Turin, Italy. Zinc alloy. No. 1,364,654; Jan. 4; v. 282; p. 117.
- Tedesco, Arrigo, assignor to Società Anonima Stabilimenti Biak, Turin, Italy. Apparatus for subjecting cast-metal ingots to pressure. No. 1,364,655; Jan. 4; v. 282; p. 117.
- Tedesco, Ralph L., Rockland, Mass. Display apparatus. No. 1,369,060; Feb. 22; v. 283; p. 569.
- Teece, Samuel, Enderby, British Columbia, Canada. Poison-bottle top. No. 1,367,841; Feb. 8; v. 283; p. 247.
- Teed, Earl S. (See Geer, W. C., Noble, and Teed.)
- Tegardner, Chester H., Washington, D. C. Rheostat. No. 1,381,093; June 7; v. 287; p. 148.
- Teehan, John F., Brockton, Mass. Shoe and making the same. No. 1,393,730; Oct. 11.
- Teel, Lawrence H. (See Mills, E. F., and Teel.)
- Teel, Monroe J., Anadarko, Okla. Vibration-absorbing device. No. 1,383,350; July 5; v. 288; p. 19.
- Teel, Thomas B., assignor of one-half to M. Royhl, Huron, S. D. Compensating piston-pin. No. 1,365,867; Jan. 18; v. 282; p. 436.
- Teeter, Ellery A., Ketchikan, Alaska. Clamp. No. 1,364,415; Jan. 4; v. 282; p. 72.
- Teeter, Harold V., Kalamazoo, Mich. Tire-carrier. No. 1,381,366; June 14; v. 287; p. 250.
- Teetor Company. (See Teetor, Martin, assignor.)
- Teetor, Martin, assignor to Teetor Company, Des Moines, Iowa. Calculating-machine. No. 1,371,526; Mar. 15; v. 284; p. 448.
- Teetsow, Waldemar H., New York, N. Y. Ball-bearing. No. 1,379,945; May 31; v. 286; p. 935.
- Tefft, Frederick A., Toledo, Ohio. Electric connector. No. 1,382,753; June 28; v. 287; p. 626.
- Tegeler, Gustav. (See Spangler, John H., assignor.)
- Tegnér, Folke W., Rockford, Ill. Fishing-tackle holder. No. 1,397,790; Nov. 22.
- Teich, Maurice, New York, N. Y. Package-holding attachment for automobiles. No. 1,365,353; Jan. 11; v. 282; p. 296.
- Teich, Toska Semmlig, née, Dresden, Germany. Reproducing hats. No. 1,401,569; Dec. 27.
- Teitelbaum, Boris H. (See Koretzky, H. M., and Teitelbaum.)
- Teitelbaum, Boris H., Brooklyn, assignor to H. M. Koretzky and I. Koretzky, New York, N. Y. Dry battery. No. 1,366,298; Jan. 18; v. 282; p. 520.
- Teichtner, Carl, Leipsig, Germany. Permanent calendar. No. 1,391,917; Sept. 27; v. 290; p. 703.
- Teisseire, Henri, Paris, France. Hinge for vehicle-bodies. No. 1,378,149; May 17; v. 286; p. 448.
- Teitel, Albert, New York, N. Y., assignor to Cinema Patents Company, Chicago, Ill. Film-cleaning apparatus. No. 1,389,082; Aug. 30; v. 289; p. 854.
- Teitel, Albert, New York, N. Y., assignor to Cinema Patents Company, Chicago, Ill. Film-cleaner. No. 1,401,012; Dec. 12.
- Teitel, Albert, New York, N. Y., assignor to Cinema Patents Company, Chicago, Ill. Film cleaner and re-winder. No. 1,401,013; Dec. 20.
- Teitel, Albert, New York, N. Y., assignor to Cinema Patents Company, Chicago, Ill. Film-cleaning apparatus. No. 1,401,014; Dec. 20.
- Teitsch, Marx. (See Ambühl, R., and Teitsch.)
- Tekippe, William J., New Hampton, Iowa. Traction-wheel. No. 1,372,633; Mar. 22; v. 284; p. 716.
- Tekulve, Edward J., Covington, Ky. Attachment for bells. No. 1,369,496; Feb. 22; v. 283; p. 654.
- Telford, William, and R. J. McLean, Paracale, Philippine Islands. Clay-disintegrating machine for sluice-box dredges. No. 1,377,034; May 3; v. 286; p. 125.
- Telga, Walter A., Albion, N. Y. Animal-trap. No. 1,401,011; Dec. 20.
- Tellefsen, Karl R., Brooklyn, N. Y. Reversing mechanism for shafts. No. 1,394,373; Oct. 18.
- Teller, James C., Jefferson, S. D. Stovepipe and chimney clamp. No. 1,399,672; Dec. 6.
- Teller Protector Company. (See Lancaster, George W., assignor.)
- Teller, Rufus K., Unadilla, N. Y. Kitchen-knife and making same. No. 1,366,610; Jan. 25; v. 282; p. 626.
- Tellin, Frank D., Kalona, Iowa. Rotary hay-distributor. No. 1,367,572; Feb. 8; v. 283; p. 195.
- Telmosse, Joseph A., Jr., Passaic, N. J. Adjustable mill standard or jack. No. 1,373,276; Mar. 29; v. 284; p. 885.
- Tempelaar, Hendrik A., Tandjong-Karang, South Sumatra. Tea-drying apparatus. No. 1,364,463; Jan. 4; v. 282; p. 81.
- Tempest, Rone B., Magna, Utah. Graphometer. No. 1,365,868; Jan. 18; v. 282; p. 436.
- Tempest, William, assignor to Hopedale Manufacturing Company, Milford, Mass. Automatic filling-replenishing loom. No. 1,372,106; Mar. 22; v. 284; p. 615.
- Temple, Fred W., Powell, Wyo. Tarpaulin. No. 1,372,846; Mar. 29; v. 284; p. 799.
- Temple, Robert, Bromley, England. Explosively-actuated penetrating means. No. 1,365,869; Jan. 18; v. 282; p. 436.
- Temple, Robert, Bromley, England. Explosively-actuated affixing device. No. 1,365,870; Jan. 18; v. 282; p. 437.
- Temple, William, Bedlington, England. Device for withdrawing mine-props and for like purposes. No. 1,399,279; Dec. 6.
- Templeton, William G., Colorado Springs, Colo. Vending-machine. No. 1,385,933; July 26; v. 288; p. 757.
- Templeton, William G., Colorado Springs, Colo. Vending-machine. No. 1,386,974; Aug. 9; v. 289; p. 273.
- Templeton, William G., Colorado Springs, Colo. Weighing-scale. No. 1,394,696; Oct. 25.
- Ten Bosch, Abraham, assignor to Naamlooze Vennootschap Nederlandsche Veenvverwerking Maatschappij, The Hague, Netherlands. Filtering or dewatering press. No. 1,366,307; Jan. 18; v. 282; p. 521.
- Ten Bosch, Abraham, assignor to Naamlooze Vennootschap Nederlandsche Veenvverwerking Maatschappij, The Hague, Netherlands. Method and means for removing water from peat. No. 1,369,611; Feb. 22; v. 283; p. 676.
- Ten Bosch, Abraham, The Hague, Netherlands. Wall-plug. No. 1,387,814; Aug. 16; v. 289; p. 492.
- Tench, Samuel V., Wilkes-Barre, Pa. Chain. No. 1,377,371; May 10; v. 286; p. 247.
- Tench, Samuel V., Wilkes-Barre, Pa. Chain. No. 1,381,519; June 14; v. 287; p. 278.
- Tengdin, Charles G., assignor of one-half to O. E. Tengdin, Jr., Kankakee, Ill. Spud-wrench. No. 1,369,143; Feb. 22; v. 283; p. 586.
- Tengdin, Oscar E., Jr. (See Tengdin, Charles G., assignor.)
- Tennant, Fred E., et al. (See Shrum, Will N., assignor.)
- Tennessee Implements Sales Co. (See Taylor, Silas P., assignor.)



*Alphabetical list of patentees—Continued.*

- Tenney, Fred, Buckingham, England. Shuttlecock device for use in games. No. 1,393,407; Oct. 11.
- Tenney, Fred, Doncaster, England. Game. No. 1,393,408; Oct. 11.
- Tentobed Company. (See Purcell, Isaac S., assignor.)
- Terhune, Howard, Cleveland, Ohio. Steam-hammer guide. No. 1,382,571; June 21; v. 287; p. 537.
- Terhune, Howard, Cleveland, Ohio. Board-hammer. No. 1,388,671; Aug. 23; v. 289; p. 717.
- Ternes, Frank J., and W. C. Adkins, Henderson, Ky. Car-coupling. No. 1,370,929; Mar. 8; v. 284; p. 268.
- Ternstedt Manufacturing Company. (See Allmand, John T., assignor.)
- Ternstedt Manufacturing Company. (See Heintz, Ernest E., assignor.)
- Terranova, Giuseppe E., New Haven, Conn. Molding-flask for dentists' use. No. 1,372,209; Mar. 22; v. 284; p. 635.
- Terranova, Giuseppe E., New Haven, Conn. Forming molds for dentists' use. No. 1,378,064; May 17; v. 286; p. 432.
- Terranova, Vincent, San Francisco, Calif. Folding bed. No. 1,380,749; June 7; v. 287; p. 81.
- Terreault, John. (See Booth, S. J., Terreault, and Burn.)
- Terrell, Alva C., Kansas City, Mo. Tire. No. 1,368,304; Feb. 15; v. 283; p. 383.
- Terrell, Benjamin P., Warrenton, N. C. Fusible plug. No. 1,376,481; May 3; v. 286; p. 20.
- Terrell, John O., San Bernardino, Calif. Gas-engine stove. No. 1,379,138; May 24; v. 286; p. 709.
- Terrell, Thomas, London, England. Weaving-machine. No. 1,399,904; Dec. 13.
- Terrey, Henry. (See Harger, J., and Terrey.)
- Terry, George O., assignor to Economy Shoe Machinery Company, Minneapolis, Minn. Edge-scouring roll. No. 1,387,627; Aug. 16; v. 289; p. 454.
- Terry, George O., assignor to Economy Shoe Machinery Company, Minneapolis, Minn. Heel-scouring roll. No. 1,387,628; Aug. 16; v. 289; p. 454.
- Terry, James A., Pocatontas, Iowa. Portable cabinet-lavatory. No. 1,374,778; Apr. 12; v. 285; p. 311.
- Terry, Walter J., Seattle, Wash. Milling-machine. No. 1,397,709; Nov. 22.
- Tervas, Joseph K. E., Hancock, Mich. Reel for picture-machines. No. 1,395,164; Oct. 25.
- Tervin, Bernard T., Cordova, Ala. Combination automobile-steering-post lock. No. 1,368,305; Feb. 15; v. 283; p. 383.
- Terzian, Sarkis, St. Louis, Mo. Automobile traffic-signal. No. 1,372,847; Mar. 29; v. 284; p. 799.
- Tesch, Alexander O., Chicago, Ill. Diving-chamber for submarine operations. No. 1,380,750; June 7; v. 287; p. 81.
- Tesch, Alexander O., Chicago, Ill. Oil-burner. No. 1,395,748; Nov. 1.
- Tesla, Nikola, New York, N. Y., assignor to Waltham Watch Company, Waltham, Mass. Flow-meter. No. 1,365,547; Jan. 11; v. 282; p. 333.
- Tessa, Iacopo, Brooklyn, N. Y. Plume-washing machine. No. 1,397,745; Nov. 22.
- Tessier, Julien, assignor to Eastman Kodak Company, Rochester, N. Y. Camera-back. No. 1,398,950; Nov. 29.
- Tessier, Julien, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic plateholder. No. 1,398,951; Nov. 29.
- Tessier, Julien, assignor to Eastman Kodak Company, Rochester, N. Y. Color-screen carrier. No. 1,398,952; Nov. 29.
- Test, Ellis W., Michigan City, Ind. Dump-car. No. 1,368,372; Feb. 15; v. 283; p. 396.
- Test, Ellis W., Michigan City, Ind. Roller-door track. No. 1,400,699; Dec. 20.
- Testa, Vincenzo, St. Catharines, Ontario, Canada. Mechanical toy aeroplane. No. 1,373,368; Mar. 29; v. 284; p. 903.
- Teste, Claude, Jr., Lyon, France. Fire-extinguishing device. No. 1,379,139; May 24; v. 286; p. 709.
- Testu, Théodule. (See Fournier, E. and Testu.)
- Teter, Jacob P. (See Drake, Elmer C., assignor.)
- Tetőtleni, Armin, Budapest, Hungary. Driving of tool-machines, especially for variable working resistance. No. 1,369,853; Mar. 1; vol. 284; p. 19.
- Tetrick, Teddy L., and Philip J. Mueller, Joplin, Mo. Shoe-fastener. No. 1,381,764; June 14; v. 287; p. 326.
- Tetley, Charles E., Pittsburgh, Pa. Pulverizing or comminuting apparatus. No. 1,369,061; Feb. 22; v. 283; p. 570.
- Tetrault, Eusebe. (See Payette, A. E., and Tetrault.)
- Tennisz, William C., Grand Rapids, Mich. Phonograph-brake. No. 1,396,471; Nov. 8.
- Texada, Davidson K., and J. N. Oksenholt, Boyce, La. Automatic fuel-saver. No. 1,390,179; Sept. 6; v. 290; p. 125.
- Texas Company, The. (See Hull, Burton E., assignor.)
- Texas Company, The. (See Lorenz, Charles O., assignor.)
- Texas Concrete Construction Company. (See Moore, Stuart B., assignor.)
- Texas Gulf Sulphur Company. (See Bacon, R. F., and Davis, assignors.)
- Texas Gulf Sulphur Company. (See Bacon, R. F., and Wenrich, assignors.)
- Texas Gulf Sulphur Company. (See Bragg, Gilbert A., assignor.)
- Texas Gulf Sulphur Company. (See Davis, H. S., and Hamor.)
- Texas Reclaim Oil Association. (See Humason, G. A., Bashara, and Barraco, assignors.)
- Textile Engineering Company. (See Hale, Joshua B., assignor.)
- Textile Machine Works. (See Zwicky, Melchior, assignor.)
- Textile Publishing Company. (See Hurst, Albert E., assignor.)
- Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Cutter-grinding machine. No. 1,389,325; Aug. 30; v. 289; p. 902.
- Thacker, Aaron H. (See Grizzle, R. M., and Thacker.)
- Thackray, George E., Westmont borough, Pa. Draft-rigging. No. 1,389,793; Sept. 6; v. 290; p. 47.
- Thackray, George E., Westmont borough, Pa. Draft-rigging. No. 1,394,374; Oct. 18.
- Thackray, George F., Westmont borough, Pa. Car. No. 1,401,833; Dec. 27.
- Thackston, Ralph F., Anderson, S. C. Rocker-shaft bearing. No. 1,374,779; Apr. 12; v. 285; p. 312.
- Thall, Edwin. (See Carlsson, O., and Thall.)
- Thane, Arthur C., Chewelah, Wash. Apparatus and process for separating and recovering fine metallic particles from pulp. No. 1,377,738; May 10; v. 286; p. 315.
- Tharalson, Taly C., Jamestown, N. D. Trace-carrier. No. 1,375,068; Apr. 19; v. 285; p. 430.
- Thatcher, Charles J., New York, N. Y. Electrolytic cell. No. 1,388,216; Aug. 23; v. 289; p. 627.
- Thatcher, Charles J., New York, N. Y. Producing separators. No. 1,393,467; Oct. 11.
- Thatcher, Charles J., New York, N. Y. Oxidation and reduction process and apparatus therefor. No. 1,397,562; Nov. 22.
- Thayer Automatic Train and Signal Control Company. (See Thayer, Frank S., assignor.)
- Thayer, Burt W., Minneapolis, Minn. Undergarment. No. 1,393,468; Oct. 11.
- Thayer, Charles E., Portland, Me. Support for garments and other articles. No. 1,365,354; Jan. 11; v. 282; p. 296.
- Thayer, Frank S., assignor to Thayer Automatic Train and Signal Control Company, Spokane, Wash. Ramp contact device. No. 1,369,062; Feb. 22; v. 283; p. 570.
- Thayer, Frank S., assignor to Thayer Automatic Train and Signal Control Company, Spokane, Wash. Ramp. No. 1,369,063; Feb. 22; v. 283; p. 570.
- Thayer, Harry G., and S. T. McLellan, assignors of one-third to L. D. Truslow, Charleston, W. Va. Sectional boiler. No. 1,399,035; Dec. 6.
- Theabold, Harry C., Gibson, N. Mex. Foot-operated accelerator for automobiles. No. 1,395,371; Nov. 1.
- Thebault, William J., Sydney Mines, Nova Scotia, Canada. Combined rail chair and antispreading device. No. 1,379,661; May 31; v. 286; p. 882.
- Thebaud, John E., assignor to S. Johnstone & Company, Inc., Buffalo, N. Y. Cushioned vehicle-wheel. No. 1,391,024; Sept. 20; v. 290; p. 449.
- Theberath, Joseph C., Lakewood, Ohio, assignor to R. A. Rohrich, Cleveland, Ohio. Engine-support. No. 1,384,169; July 12; v. 288; p. 238.
- Theberath, Joseph C., assignor of one-third to W. D. Graff, Lakewood, Ohio. Signature-collecting mechanism. No. 1,393,924; Oct. 18.
- Theberath, Joseph C., assignor to The Standard Parts Company, Cleveland, Ohio. Vehicle-wheel rim. No. 1,401,015; Dec. 20.
- Theft Warning Auto Lock Corporation. (See McDonald, John K., assignor.)
- Theimer, Eugene, Newark, N. J., assignor to Lowenstein Radio Company, Inc., Brooklyn, N. Y. Manufacture of hydrobromic acid. No. 1,379,731; May 31; v. 286; p. 895.
- Theis, Edward C. (See Faber, Alvin J., assignor.)
- Theis, George F., Dayton, Ohio. Talking-machine horn. No. 1,370,382; Mar. 1; vol. 284; p. 119.
- Theobald, Adelbert D., Cuyler, N. Y. Culinary heater. No. 1,372,375; Mar. 22; v. 284; p. 666.
- Theobald, Henry, assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,385,406; July 26; v. 288; p. 650.
- Theofilos, Nicholas, Chicago, Ill. Electric toy. No. 1,382,691; June 28; v. 287; p. 614.
- Theofilos, Nicholas P., Chicago, Ill. Automatic railway gate and signal apparatus. No. 1,401,375; Dec. 27.
- Therkelsen, Cachot, et al. (See Gruss, George H., assignor.)
- Thermal Appliance Company. (See Hansen, Charles C., assignor.)
- Thermal Industrial and Chemical (T. I. C.) Research Company. (See Morgan, John S., assignor.)
- Thermic Engineering Co. (See Lennig, Edmund B., assignor.)
- Thermo Carburetor Co. (See Waite, Harry C., assignor.)
- Thermoid Rubber Company. (See Stokes, Robert J., assignor.)
- Thermokept Products Corporation. (See Willison, Walter W., assignor.)
- Theroz Company, The. (See Popper, Isaac C., assignor.)
- Therouz Company, The. (See Schaub, Jacob, assignor.)
- Therreault, Adelmia J., Seymour, Conn. Buckle. No. 1,367,215; Feb. 1; v. 283; p. 66.
- Thew Shovel Company, The. (See Harris, Hollis H., assignor.)



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- Theyskens, Alphonse, Testelt, Belgium. Friction-brake for window-sashes. No. 1,366,972; Feb. 1; v. 283; p. 18.
- Thibault, Frank J., Rochester, N. Y. Power-transmission for sewing-machines. No. 1,369,364; Feb. 22; v. 283; p. 628.
- Thickens, John H., Bathurst, New Brunswick, Canada, assignor to The Beaver Company, Buffalo, N. Y. Adhesive. No. 1,377,739; May 10; v. 286; p. 315.
- Thiel, Frank, St. John, Ind. Means and method for building silos. No. 1,370,166; Mar. 1; vol. 284; p. 78.
- Thiel, Heinrich, Ruhla, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Mechanical time-fuse. No. 1,372,574; Mar. 22; v. 284; p. 705.
- Thiel, Martin A., Mount Vernon, Ohio. Oil-pump and indicator device for engines. No. 1,371,333; Mar. 15; v. 284; p. 409.
- Thiel, Peter H., Renwick, Iowa. Harrow lifting and clearing device. No. 1,399,718; Dec. 6.
- Thiele, Adolph A., and J. W. Ingersoll, Omaha, Nebr., assignors to American Smelting and Refining Company, New York, N. Y. Lead-stacking machine. No. 1,389,794; Sept. 6; v. 290; p. 47.
- Thiele, Ludwig A., Columbus, Ohio. Cascade-pan. No. 1,380,689; June 7; v. 287; p. 69.
- Thielke, Ernest B., Pittsburgh, Pa. Button. No. 1,378,150; May 17; v. 286; p. 448.
- Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,366,036; Jan. 18; v. 282; p. 468.
- Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,366,037; Jan. 18; v. 282; p. 469.
- Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,366,038; Jan. 18; v. 282; p. 469.
- Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,366,039; Jan. 18; v. 282; p. 469.
- Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,366,040; Jan. 18; v. 282; p. 469.
- Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,371,005; Mar. 8; v. 284; p. 283.
- Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,371,006; Mar. 8; v. 284; p. 283.
- Thiemer, William H., assignor to The Peters Machine & Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,376,840; May 3; v. 286; p. 88.
- Thiemer, William H., assignor to The Paragon Machine Tool & Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,378,985; May 24; v. 286; p. 680.
- Thiemer, William H., assignor to The Paragon Machine Tool & Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,378,986; May 24; v. 286; p. 680.
- Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,381,599; June 14; v. 287; p. 293.
- Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,381,600; June 14; v. 287; p. 294.
- Thiery, Michael, Cincinnati, Ohio. Oven-door. No. 1,386,542; Aug. 2; v. 289; p. 113.
- Thiery, Michael, Cincinnati, Ohio. Safety device for automobiles. No. 1,388,981; Aug. 30; v. 289; p. 833.
- Thiesen, Hugo A., J., St. Louis, Mo. Current-motor. No. 1,365,871; Jan. 18; v. 282; p. 437.
- Thiessen, George J., Toledo, Ohio. Bait for luring animals and the like. No. 1,366,509; Jan. 25; v. 282; p. 605.
- Thillow, Frank, Philadelphia, Pa. Cigar-lighter. No. 1,369,144; Feb. 22; v. 283; p. 586.
- Thiry, Paul K., (See Owen, George W., assignor.)
- Thoens, Burchard, New York, N. Y. Refrigeration. No. 1,369,365; Feb. 22; v. 283; p. 628.
- Thoens, Burchard, New York, N. Y. Refrigerating apparatus. No. 1,369,366; Feb. 22; v. 283; p. 628.
- Thom, Clarence, R. W. Diamond, and S. C. Blaylock, Trail, British Columbia, assignors to The Consolidated Mining & Smelting Company of Canada, Limited, Montreal, Quebec, Canada. Magnetic separation of ores. No. 1,398,051; Nov. 22.
- Thom, James C., Chicago, Ill., assignor to Combination Machine Company, New York, N. Y. Machine for filling and packing containers. No. 1,386,810; Aug. 9; v. 289; p. 240.
- Thom, James C., Chicago, Ill., assignor to Combination Machine Company, New York, N. Y. Method and apparatus for marking articles. No. 1,386,811; Aug. 9; v. 289; p. 240.
- Thom, Robert A., Manchester, assignor to The Superheater Corporation, Limited, London, England. Pipe-coupling. No. 1,388,491; Aug. 23; v. 289; p. 683.
- Thomas, Adelbert A., assignor to Cresco Manufacturing Co., Chicago, Ill. Box. No. 1,364,594; Jan. 4; v. 282; p. 105.
- Thomas, Adelbert A., assignor to Cresco Manufacturing Co., Chicago, Ill. Machine for covering metallic boxes. No. 1,377,231; May 10; v. 286; p. 218.
- Thomas, Adelbert A., assignor to Cresco Manufacturing Co., Chicago, Ill. Machine for covering metallic boxes. No. 1,377,232; May 10; v. 286; p. 219.
- Thomas, Albert E., (See Kulman, Charles, assignor.)
- Thomas, Arvine N., Canton, Ohio. File-cabinet follower. No. 1,391,595; Sept. 20; v. 290; p. 565.
- Thomas, Avery H., Houston, Tex. Tool-joint. No. 1,386,210; Aug. 2; v. 289; p. 50.
- Thomas, Benjamin D., assignor of one-tenth to Thomas-Morse Aircraft Corporation, Ithaca, N. Y. Airplane. No. 1,370,242; Mar. 1; vol. 284; p. 93.
- Thomas, Benjamin D., Ithaca, N. Y. Airplane. No. 1,389,106; Aug. 30; v. 289; p. 858.
- Thomas, Benjamin D., assignor of one-tenth to Thomas-Morse Aircraft Corporation, Ithaca, N. Y. Driving connections for airplane-engines. No. 1,394,870; Oct. 25.
- Thomas, Benjamin H., Clifton Forge, Va. Smoke-consumer for locomotives. No. 1,370,855; Mar. 8; v. 284; p. 254.
- Thomas & Betts Co., The. (See Thomas, George C., Jr., assignor.)
- Thomas, Bruno, Seattle, Wash. Electric furnace for treating gases. No. 1,367,842; Feb. 8; v. 283; p. 247.
- Thomas & Buckley Hoisting Co. (See Vittorio, Luxa C., assignor.)
- Thomas, Carlyle W., and F. E. Bradley, Bridgeport, Conn., assignors to The Singer Manufacturing Company. Seam-margin-opening device for sewing-machines. No. 1,365,747; Jan. 18; v. 282; p. 412.
- Thomas, Charles P., deceased, San Francisco, Calif.; F. J. Rich, administrator. Automatic train-control system. No. 1,370,930; Mar. 8; v. 284; p. 263.
- Thomas, Charles W., St. Louis, Mo. Method and apparatus for making artificial limbs of fiber. No. 1,379,884; May 31; v. 286; p. 923.
- Thomas, Cyril H., Chicago, Ill. Insulator. No. 1,388,217; Aug. 23; v. 289; p. 627.
- Thomas, Edgar, Jarrow-on-Tyne, England. Billet-manipulator for rolling-mills. No. 1,376,500; Apr. 26; v. 285; p. 698.
- Thomas, Edgar F., Oconomowoc, Wis. Can-soldering machine. No. 1,368,769; Feb. 15; v. 283; p. 474.
- Thomas, Edward, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,370,243; Mar. 1; vol. 284; p. 93.
- Thomas, Edward, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,388,218; Aug. 23; v. 289; p. 627.
- Thomas, Edward G., Springfield, Ill., assignor to Toledo Scale Company, Toledo, Ohio. Price-calculating weighing-scale. No. 1,369,145; Feb. 22; v. 283; p. 536.
- Thomas, Edward G., Springfield, Ill. Child's play-table. No. 1,377,860; May 10; v. 286; p. 340.
- Thomas, Edward G., Springfield, Ill. Synchrorotor. No. 1,381,367; June 14; v. 287; p. 250.
- Thomas, Edward G., assignor to Toledo Scale Company, Toledo, Ohio. Signal for weighing-scales. No. 1,392,808; Oct. 4.
- Thomas, Edwin E., assignor to Thomas Engineering Works, Portland, Oreg. Sprinkling device. No. 1,368,416; Feb. 15; v. 283; p. 405.
- Thomas, Edwin G., assignor to Toledo Scale Company, Toledo, Ohio. Locking device for weighing-scales. No. 1,386,662; Aug. 9; v. 289; p. 209.
- Thomas Engineering Works. (See Thomas, Edwin E., assignor.)
- Thomas, Frank G., Astoria, Oreg. Transmission-gearing. No. 1,382,572; June 21; v. 287; p. 538.
- Thomas, Frank W., (See Herron, W. S., and Thomas.)
- Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Panel-board fitting. No. 1,374,123; Apr. 5; v. 285; p. 144.
- Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Fuse-plug. No. 1,385,285; July 19; v. 288; p. 549.
- Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Shade-holder. No. 1,385,896; July 26; v. 288; p. 750.
- Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric fitting. No. 1,392,091; Sept. 27; v. 290; p. 738.
- Thomas, George C., Anglesey, Wales. Machine for making concrete, composition, or like bricks, blocks, slabs, and the like. No. 1,368,073; Feb. 8; v. 283; p. 290.
- Thomas, George C., Jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Adapter for connecting devices. No. 1,364,529; Jan. 4; v. 282; p. 94.
- Thomas, George C., Jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Connecting device. No. 1,367,998; Feb. 8; v. 283; p. 275.
- Thomas, George C., Jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Outlet-box. No. 1,383,879; July 5; v. 288; p. 129.
- Thomas, George H., assignor to Flexible Couplings Company, Westfield, N. Y. Universal joint. No. 1,389,915; Sept. 6; v. 290; p. 72.
- Thomas, George H., assignor to Flexible Couplings Company, Westfield, N. Y. Flexible shaft-coupling. No. 1,396,979; Nov. 15.
- Thomas, George J., Lansing, Mich. Axle. No. 1,373,033; Mar. 29; v. 284; p. 837.
- Thomas, George J., Lansing, Mich. Driving-gearing. No. 1,381,945; June 21; v. 287; p. 420.
- Thomas, George P., Glenshaw, Pa. Punching-machine. No. 1,383,673; July 5; v. 288; p. 86.



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- Thomas, Hanson, Pittsburgh, Pa. Feeding mechanism for bolt-machines. No. 1,389,916; Sept. 6; v. 290; p. 72.
- Thomas, Hanson, and J. Dahlstrom, Pittsburgh, Pa. Feed-regulator for powdered coal. No. 1,388,129; Aug. 16; v. 289; p. 553.
- Thomas, Harry J. (See Thomas, William E. and H. J.)
- Thomas, Harry L., Washington, Pa. Nut-lock. No. 1,372,376; Mar. 22; v. 284; p. 667.
- Thomas, Herbert, Chicago, Ill., assignor to Eclipse Manufacturing Company, Indianapolis, Ind. Spark-plug. No. 1,381,252; June 14; v. 287; p. 229.
- Thomas, Herbert A. (See Ellis, E. A., and Thomas.)
- Thomas, Horace T., Lansing, Mich. Window for automobiles. No. 1,374,249; Apr. 12; v. 285; p. 209.
- Thomas, Horace T., Lansing, Mich. Automobile construction. No. 1,383,880; July 5; v. 288; p. 129.
- Thomas, Howard W., Troy, N. Y. Antiaircraft and submarine howitzer. No. 1,377,292; May 10; v. 286; p. 230.
- Thomas, Hubert J. S., Haverton Hill, England. Speed indicating and recording instrument. No. 1,377,293; May 10; v. 286; p. 231.
- Thomas, Hubert S., Llandaff, W. D. Davies, Whitchurch, near Cardiff, Wales, and R. B. Thomas, deceased, by N. C. B. Thomas, Englefield Green, H. R. W. Anderson, London, and C. Bathurst, Lydney, England. Plate feeding apparatus. No. 1,384,646; July 12; v. 288; p. 338.
- Thomas, Hubert S., Llandaff, W. R. Davies, Whitchurch, near Cardiff, Wales, and R. B. Thomas, deceased, by N. C. Beaumont-Thomas, Englefield Green, H. R. W. Anderson, London, and C. Bathurst, Lydney, England, executors. Apparatus for cleaning and polishing metal-coated plates. No. 1,384,647; July 12; v. 288; p. 338.
- Thomas, Ivor D., Cleveland Heights, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Two-wheel swiveling and equalizing crane-truck. No. 1,380,607; June 7; v. 287; p. 54.
- Thomas, James, Pittsburg, Kans., assignor to Morse Twist Drill & Machine Company, New Bedford, Mass. Computing device. No. 1,382,331; June 21; v. 287; p. 491.
- Thomas, James C., Houston, Tex. Attachment for internal-combustion motors. No. 1,372,987; Mar. 29; v. 284; p. 828.
- Thomas, Jay G., Philadelphia, Pa. Suspended furnace-roof. No. 1,372,848; Mar. 29; v. 284; p. 799.
- Thomas, Jay G., Philadelphia, Pa. Crowned-arch construction. No. 1,376,482; May 3; v. 286; p. 20.
- Thomas, Joseph E., Sawtelle, Calif. Swingable telephone. No. 1,400,187; Dec. 13.
- Thomas, Joseph L., Garfield, Utah. Flotation apparatus. No. 1,383,881; July 5; v. 288; p. 129.
- Thomas, John A., Columbus, Ohio. Apparatus for preventing spontaneous combustion in coal piles. No. 1,399,036; Dec. 6.
- Thomas, Lawrence H. (See Kuhn, F., Thomas, and Spiess.)
- Thomas, Lester O., assignor to New England Confectionery Company, Boston, Mass. Assembling-machine. No. 1,392,858; Oct. 4.
- Thomas, Lloyd E., Detroit, Mich. Combined badge and detachable watch-guard. No. 1,389,711; Sept. 6; v. 290; p. 30.
- Thomas, Louis V., and J. A. Guérin, assignors to Societe Anonyme du Moteur L. Thomas, Lyon, France. Two-stroke-cycle internal-combustion engine. No. 1,388,390; Aug. 23; v. 289; p. 663.
- Thomas Maddock's Sons Company. (See Kelly, J. F., and Thompson, assignors.)
- Thomas Manufacturing Company, The. (See Lorimer, George W., assignor.)
- Thomas Manufacturing Company, The. (See Pelton, Charles H., assignor.)
- Thomas, Max, Brighton Beach, and C. Kaufmann, Springfield, N. Y. Waistband. No. 1,371,273; Mar. 15; v. 284; p. 397.
- Thoms, Max H., assignor to H. Marmon, Indianapolis, Ind. Thread-gage. No. 1,394,650; Oct. 25.
- Thomas-Morse Aircraft Corporation. (See Thomas, Benjamin D., assignor.)
- Thomas, Percy H., Upper Montclair, N. J. Electric insulator. No. 1,373,576; Apr. 5; v. 285; p. 38.
- Thomas, Peter J., Sapulpa, Okla. Cotton sack. No. 1,386,447; Aug. 2; v. 289; p. 94.
- Thomas, Phillips, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making condensers. No. 1,365,292; Jan. 11; v. 282; p. 284.
- Thomas, Phillips, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Apparatus for making condensers. No. 1,384,498; July 12; v. 288; p. 306.
- Thomas, Phillips, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Condenser. No. 1,396,897; Nov. 15.
- Thomas, R., and Sons Co., The. (See Eckert, Grandon E., assignor.)
- Thomas, Richard B. (See Thomas H. S. Davies, and Thomas.)
- Thomas, Samuel J., East Wenatchee, Wash. Box-marker. No. 1,377,941; May 10; v. 286; p. 356.
- Thomas, Samuel M., Cincinnati, Ohio. Signalling system. No. 1,369,146; Feb. 22; v. 283; p. 586.
- Thomas, Seth, Clock Co., The. (See Wehrle, Frank X., assignor.)
- Thomas, Stephen, Long Island City, assignor, by mesne assignments, to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y. Producing laminated constructions and apparatus for use in connection therewith. No. 1,398,244; Nov. 29.
- Thomas, Thomas, Bayonne, N. J. Pipe-tongs. No. 1,370,931; Mar. 8; v. 284; p. 268.
- Thomas, Thomas D., Youngstown, Ohio, assignor of one-third to W. D. McKay and one-third to T. L. Thomas. Bolt. No. 1,400,248; Dec. 13.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-valve device. No. 1,381,946; June 21; v. 287; p. 420.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic speed-control device. No. 1,381,947; June 21; v. 287; p. 420.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-pipe vent-valve. No. 1,384,930; July 19; v. 288; p. 476.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Locomotive brake equipment. No. 1,390,592; Sept. 13; v. 290; p. 299.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Load-brake apparatus. No. 1,390,593; Sept. 13; v. 290; p. 299.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control equipment. No. 1,390,594; Sept. 13; v. 290; p. 300.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control device. No. 1,390,595; Sept. 13; v. 290; p. 300.
- Thomas, Thomas H., Edgewood, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Empty and load brake. No. 1,394,049; Oct. 18.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Combined brake-valve and switch. No. 1,397,563; Nov. 22.
- Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake. No. 1,400,639; Dec. 20.
- Thomas, Thomas L., et al. (See Thomas, Thomas D., assignor.)
- Thomas, Thomas W., Baltimore, Md. Shovel-operating machine. No. 1,386,911; Aug. 9; v. 289; p. 261.
- Thomas, Victor W., Waukegan, Ill. Current-collector for magnetos. No. 1,372,788; Mar. 29; v. 284; p. 787.
- Thomas, Walter, Nanaimo, British Columbia, Canada. Process of and apparatus for distilling coal and other material. No. 1,365,128; Jan. 11; v. 282; p. 252.
- Thomas, Walter E. (See Church, Z. A., and Thomas.)
- Thomas, Walter H., Spencer, Iowa. Combination fender-brace and bumper. No. 1,379,946; May 31; v. 286; p. 935.
- Thomas, Walter K., Brooklyn, N. Y. Variable-speed transmission mechanism. No. 1,378,634; May 17; v. 286; p. 540.
- Thomas, William. (See Goodwin, Jay L., assignor.)
- Thomas, William B., Jr., Philadelphia, Pa. Container. No. 1,387,520; Aug. 16; v. 289; p. 433.
- Thomas, William C., J. C. Dickens, and J. W. Fowler, Goose Creek, Tex. Device for unscrewing and withdrawing pipe. No. 1,389,710; Sept. 6; v. 290; p. 30.
- Thomas, William E. and H. J. Florence, S. C. Hydrocarbon-burner. No. 1,386,448; Aug. 2; v. 289; p. 94.
- Thomas, William M., Los Angeles, Calif. Metal frame construction. No. 1,397,746; Nov. 22.
- Thomas, William M., assignor of fifty and one-half per cent. to F. Oberkirch, New York, N. Y. Coal-cutting machine. No. 1,364,903; Jan. 11; v. 282; p. 209.
- Thomas, William R. (See Smith, William T., assignor.)
- Thomas, William R., Great Falls, Mont. Plow. No. 1,371,130; Mar. 8; v. 284; p. 306.
- Thomas, William S., Lock Haven, Pa. Die. No. 1,383,675; July 5; v. 288; p. 87.
- Thomas, Wion P., Kent, N. Y. Elevator for fruit-graders and other purposes. No. 1,365,565; Jan. 11; v. 282; p. 337.
- Thomasson, Adam P., Chicago, Ill. Fuel-saving device. No. 1,396,472; Nov. 8.
- Thomasson, Hiram S., Minneapolis, Minn. Kerosene-carbureter. No. 1,381,253; June 14; v. 287; p. 229.
- Thome Brothers. (See Anderson, Carl O., assignor.)
- Thompson, Alan C. (See Conlan, George A., assignor.)
- Thompson, Albert R. (See Schmidt, John, Jr., assignor.)
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Pressure-cooker. No. 1,385,594; July 26; v. 288; p. 689.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Exhaust-box. No. 1,387,629; Aug. 16; v. 289; p. 455.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Peach-pitter. No. 1,389,795; Sept. 6; v. 290; p. 47.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Peeling fruit. No. 1,389,796; Sept. 6; v. 290; p. 47.



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- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Filling-valve for syringers. No. 1,394,453; Oct. 18.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Safety can-feed chute. No. 1,394,799; Oct. 25.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Can-drainer. No. 1,397,153; Nov. 15.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Can-extractor. No. 1,397,990; Nov. 22.
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Pressure-cooker. No. 1,398,476; Nov. 29.
- Thompson, Albert W., Lowell, assignor, by mesne assignments, to Parks-Cramer Company, Boston, Mass. Fiber-conditioning process and apparatus. No. 1,401,376; Dec. 27.
- Thompson, Alvah P., Salem, and W. L. Baxter, Beverly; said Thompson assignor of his right to Helburn Thompson Company, Salem, Mass. Clip. No. 1,381,029; June 7; v. 287; p. 136.
- Thompson, Arthur C., and W. S. Robinett, Pasadena, Calif. Thermostat-valve. No. 1,369,854; Mar. 1; vol. 284; p. 19.
- Thompson, Arthur N., Milwaukee, and A. P. Knauber, Wauwatosa, assignors to The Necedah Manufacturing Corporation, Necedah, Wis. Motor-propeller for boats. No. 1,389,712; Sept. 6; v. 290; p. 30.
- Thompson, Arthur R., assignor of one-half to C. C. Fox, Chicago, Ill. Safety device for money-drawers, &c. No. 1,370,167; Mar. 1; vol. 284; p. 78.
- Thompson, Arthur T., Hightstown, N. J. Tuft-yarn spring-clip. No. 1,394,050; Oct. 18.
- Thompson, Augustus F., Huntington, W. Va. Gas-burner. No. 1,381,030; June 7; v. 287; p. 136.
- Thompson, Benjamin H., Schenectady, N. Y., assignor to General Electric Company. Protective device. No. 1,375,981; Apr. 26; v. 285; p. 636.
- Thompson, Carl G., Knoxville, Tenn. Driving mechanism for shaking-bolts. No. 1,383,676; July 5; v. 288; p. 87.
- Thompson, Carl G., Knoxville, Tenn. Grinding-mill. No. 1,392,464; Oct. 4.
- Thompson, Carl G., Knoxville, Tenn. Driving mechanism. No. 1,392,465; Oct. 4.
- Thompson, Carl L., assignor of one-half to C. A. Leicht, Sr., New Lisbon, Wis. Brake mechanism for trucks. No. 1,389,917; Sept. 6; v. 290; p. 73.
- Thompson, Charles E. (See Garman, Harry B., assignor.)
- Thompson, Charles E., assignor to The Mine & Smelter Supply Company, Denver, Colo. Table-tilting mechanism. No. 1,399,091; Dec. 6.
- Thompson, Charles W., Pensacola, Fla. Display-rack. No. 1,396,300; Nov. 8.
- Thompson, Clarence O., Kintyre, N. D. Gasolene-economizer for engines. No. 1,366,973; Feb. 1; v. 283; p. 18.
- Thompson, Drew B., Blakely, Ga. Disk field or road plow. No. 1,398,164; Nov. 22.
- Thompson, Earl, New York, N. Y. Desk-chair. No. 1,375,867; Apr. 26; v. 285; p. 614.
- Thompson, Earl, New York, N. Y. Chair. No. 1,375,868; Apr. 26; v. 285; p. 614.
- Thompson, Edward C. and W. H., assignors of one-fourth to R. McNair and one-fourth to C. H. Long, Seattle, Wash. Wrench. No. 1,396,387; Nov. 8.
- Thompson, Edwin S. (See Kelly, J. E., and Thompson.)
- Thompson, Elihu, Swampscott, assignor to H. M. Whitney, Brookline, Mass. Cooling-container. No. 1,369,567; Feb. 22; v. 283; p. 629.
- Thompson, Ella, Chicago, Ill. Corset. No. 1,398,657; Nov. 29.
- Thompson, Emery, New Rochelle, N. Y. Ice-cream freezer. No. 1,381,442; June 14; v. 287; p. 264.
- Thompson, Emery, New Rochelle, N. Y. Horizontal ice-cream freezer. No. 1,384,728; July 12; v. 288; p. 354.
- Thompson, Emil, assignor of one-half to R. Oleson, Omaha, Nebr. Electrical wall-switch. No. 1,389,713; Sept. 6; v. 290; p. 31.
- Thompson, Ernest H., Cambridge, Mass. Fare-box. No. 1,364,156; Jan. 4; v. 282; p. 21.
- Thompson, Ernest S., Detroit, Mich. Disk-record-replaying device. No. 1,376,177; Apr. 26; v. 285; p. 673.
- Thompson, Estella L., South Jacksonville, Fla. Curtain-pole and shade-roller bracket. No. 1,376,483; May 3; v. 286; p. 20.
- Thompson, Ethel G., Minneapolis, Minn. Doll figure. No. 1,392,981; Oct. 11.
- Thompson, Frank, assignor to C. Howard Hunt Pen Company, Camden, N. J. Advertising device. No. 1,388,219; Aug. 23; v. 289; p. 628.
- Thompson, Frank H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Tack-pulling machine. No. 1,374,250; Apr. 12; v. 285; p. 209.
- Thompson, Frank H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Last-measuring machine. No. 1,395,310; Nov. 1.
- Thompson, Fred. (See Mackintosh, A., and Thompson.)
- Thompson, Frederick W., deceased, by S. P. Thompson, administratrix, New York, N. Y. Amusement apparatus. No. 1,388,130; Aug. 16; v. 289; p. 553.
- Thompson, Garold J., Clarksburg, W. Va., assignor to Glamor Machine Company. Machine for making spherical articles. No. 1,374,966; Apr. 19; v. 285; p. 410.
- Thompson, Geolady G., St. Louis, Mo. Garment. No. 1,399,825; Dec. 13.
- Thompson, George, Grand Rapids, Mich. Car-door. No. 1,391,520; Sept. 20; v. 290; p. 550.
- Thompson, George, Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Distributing-switch. No. 1,375,762; Apr. 26; v. 285; p. 594.
- Thompson, George, Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,383,677; July 5; v. 288; p. 87.
- Thompson, George H., assignor to H. N. Duffey, Jr., Santa Barbara, Calif. Trap. No. 1,394,649; Oct. 25.
- Thompson, George K., New York, N. Y. Car-truck. No. 1,392,721; Oct. 4.
- Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Transmission-equalization arrangement. No. 1,367,571; Feb. 8; v. 283; p. 195.
- Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Massage-registering system. No. 1,397,991; Nov. 22.
- Thompson, George K., Maplewood, N. J., assignor to American Telephone and Telegraph Company. Selective signaling system. No. 1,398,287; Nov. 29.
- Thompson, George P., Minneapolis, Minn. Silo. No. 1,366,974; Feb. 1; v. 283; p. 19.
- Thompson, George S., assignor to James H. Matthews & Company, Pittsburgh, Pa. Machine for marking cylindrical articles. No. 1,386,812; Aug. 9; v. 289; p. 240.
- Thompson, George W., Cheboygan, Mich. Valve. No. 1,381,765; June 14; v. 287; p. 326.
- Thompson, Harold B. (See Thompson, William O., assignor.)
- Thompson, Harry E. (See Kunke, E. G., and Thompson.)
- Thompson, Harry G., Cleveland, Ohio. Handle. No. 1,374,251; Apr. 12; v. 285; p. 209.
- Thompson, Henry and S. H., Malvern, Melbourne, Victoria, Australia. Concrete and like building construction. No. 1,384,003; July 5; v. 288; p. 155.
- Thompson, Henry P., Chicago, Ill. Spot-lamp for automobiles and the like. No. 1,388,220; Aug. 23; v. 289; p. 628.
- Thompson, Herbert A. (See Smith, L. E., Zulver, and Thompson.)
- Thompson, Herbert A., North Shields, assignor of two-thirds to C. Zulver, London, and L. E. Smith, South Shields, England. Furnace-front. No. 1,388,077; Aug. 16; v. 289; p. 543.
- Thompson, Herbert S., Peekskill, N. Y. Curtain for locomotive-cabs. No. 1,398,307; Nov. 29.
- Thompson, Herbert S., Peekskill, N. Y., assignor to The Standard Textile Products Company, Youngstown, Ohio. Convertible and portable top. No. 1,375,027; Apr. 19; v. 285; p. 422.
- Thompson, Herman E., Morattico, Va. Shock-absorber for vehicles. No. 1,377,104; May 3; v. 286; p. 138.
- Thompson, Howard R. J., Washington, D. C. Automobile-headlight. No. 1,367,439; Feb. 1; v. 283; p. 111.
- Thompson, Ida J., Lincoln, Nebr. Antiskid device. No. 1,389,607; Sept. 6; v. 290; p. 9.
- Thompson, Jacob M., Fond du Lac, Wis. Concrete-mold. No. 1,379,490; May 24; v. 286; p. 775.
- Thompson, James, Greeley, Colo. Dumping-wagon. No. 1,381,031; June 7; v. 287; p. 136.
- Thompson, James A., Rushville, Ill. Tray. No. 1,401,209; Dec. 27.
- Thompson, James H., Harrisonville, Mo. Support for endless tracks. No. 1,390,473; Sept. 13; v. 290; p. 274.
- Thompson, James H., Trenton, assignor to Hussong Dyeing Machine Company, Groveville, N. J. Dyeing-machine. No. 1,395,165; Oct. 25.
- Thompson, James L., Allen, Okla. Gate-latch. No. 1,387,914; Aug. 16; v. 289; p. 511.
- Thompson, James L., assignor of one-half to H. A. Murray, Greensburg, Pa. Soldering-iron. No. 1,371,711; Mar. 15; v. 284; p. 483.
- Thompson, James M., Buffalo, N. Y. Ship. No. 1,364,961; Jan. 11; v. 282; p. 220.
- Thompson, James S., Pelham, N. Y., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del. Brake-shoe. No. 1,369,497; Feb. 22; v. 283; p. 654.
- Thompson, James S., Pelham, N. Y., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del. Brake-shoe. No. 1,369,498; Feb. 22; v. 283; p. 654.
- Thompson, James S., Pelham, N. Y., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del. Brake-shoe. No. 1,373,538; Apr. 5; v. 285; p. 31.
- Thompson, James S., Pelham, N. Y., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del. Brake-shoe. No. 1,373,539; Apr. 5; v. 285; p. 31.
- Thompson, James S., Pelham, N. Y., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del. Brake-shoe. No. 1,384,875; July 19; v. 288; p. 466.



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- Thompson, John A., Sedro Woolley, assignor to Perfecto Gear Differential Co., Seattle, Wash. Tractor driving mechanism. No. 1,393,409; Oct. 11.
- Thompson, John T., Newport, Ky., assignor of one-half to T. F. Ryan, New York, N. Y. Gun. No. 1,365,355; Jan. 11; v. 282; p. 296.
- Thompson, John T., Newport, Ky., assignor of one-half to T. F. Ryan, New York, N. Y. Machine-tool. No. 1,368,583; Feb. 15; v. 283; p. 438.
- Thompson, John T., Newport, Ky., assignor to Auto-Ordnance Corporation, New York, N. Y. Ammunition lubrication. No. 1,370,617; Mar. 8; v. 284; p. 209.
- Thompson, John T., Newport, Ky., assignor to Auto-Ordnance Corporation, New York, N. Y. Double-barreled gun. No. 1,395,460; Nov. 1.
- Thompson, John W. (See Talley, J. E., and Thompson.)
- Thompson, Joseph F., Marietta, Ohio. Car-wheel fender. No. 1,397,825; Nov. 22.
- Thompson, Joseph J., Los Angeles, Calif. Drilling-rig. No. 1,396,473; Nov. 8.
- Thompson, Joseph L., Centerville, Iowa. Hose-clamp. No. 1,371,274; Mar. 15; v. 284; p. 397.
- Thompson, Joseph S., Mill Valley, Calif. Electric-circuit-breaking switch. No. 1,380,438; June 7; v. 287; p. 21.
- Thompson, Joseph S., Mill Valley, Calif. Latch. No. 1,386,382; Aug. 2; v. 289; p. 82.
- Thompson, L. E., Island City, Oreg. Automobile-water bag holder. No. 1,392,092; Sept. 27; v. 290; p. 739.
- Thompson, Lewis I., Portland, Oreg. Vehicle-spring. No. 1,374,780; Apr. 12; v. 285; p. 312.
- Thompson, Lewis I., Portland, Oreg. Vehicle-spring. No. 1,379,321; May 24; v. 286; p. 743.
- Thompson, Livingston A., Waukesha, Wis. Candy and producing. No. 1,391,918; Sept. 27; v. 290; p. 703.
- Thompson, Livingston A., Waukesha, Wis. Massage apparatus. No. 1,391,919; Sept. 27; v. 290; p. 703.
- Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Automatic regulating system. No. 1,365,566; Jan. 11; v. 282; p. 337.
- Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Means for preventing voltage fluctuations in distributing-circuits. No. 1,373,922; Apr. 5; v. 285; p. 106.
- Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Regulating system for dynamo-electric machines. No. 1,390,843; Sept. 13; v. 290; p. 349.
- Thompson, Mabel L., assignor of one-half to R. Woods, New York, N. Y. Cooking vessel. No. 1,384,786; July 19; v. 288; p. 447.
- Thompson, Millard F., assignor of one-half to H. O. H. Murray, Washington, D. C. Solution-identifying means for medicinal preparation. No. 1,393,253; Oct. 11.
- Thompson, Orville C., Rochester, N. Y. Garment-supporting belt. No. 1,380,608; June 7; v. 287; p. 54.
- Thompson, Osceola C., White Plains, N. Y., assignor to Wirebonds Patents Company. Box blank machine (Reissue). No. 15,045; Feb. 15; v. 283; p. 518.
- Thompson, Paul E., Worland, Wyo. Canvas dam. No. 1,380,439; June 7; v. 287; p. 22.
- Thompson, Ralph W., Leith, Scotland. Machine for casting metals. No. 1,377,372; May 10; v. 286; p. 247.
- Thompson, Robert, Bakerstown, Pa. Corn-husking table. No. 1,393,648; Oct. 11.
- Thompson, Robert H., Brookline, Mass. Time-stamp. No. 1,393,410; Oct. 11.
- Thompson, Robert J., assignor to W. O. Hickok Manufacturing Company, Harrisburg, Pa. Ruling apparatus. No. 1,370,565; Mar. 8; v. 284; p. 199.
- Thompson, Robert M., Tacoma, Wash. Airplane. No. 1,389,797; Sept. 6; v. 290; p. 48.
- Thompson, Ross E., Deming, N. Mex. Condenser. No. 1,374,781; Apr. 12; v. 285; p. 312.
- Thompson, Roy E., New York, N. Y. Radio-communication transmitter. No. 1,380,872; June 7; v. 287; p. 105.
- Thompson, Roy L., Bend, Oreg. Door-catch. No. 1,391,920; Sept. 27; v. 290; p. 703.
- Thompson, Selene P., administratrix. (See Thompson, Frederick W.)
- Thompson, Stanley H. (See Thompson, Henry, and S. H.)
- Thompson, Stewart T., Lynn, Mass. Book-holder. No. 1,390,938; Sept. 13; v. 290; p. 369.
- Thompson, Theodore F., Astoria, S. D. Sprayer attachment for cultivators. No. 1,393,850; Oct. 18.
- Thompson, Thomas. (See James, Thomas J., assignor.)
- Thompson, Walter, Brooklyn, N. Y. Means for preventing the jamming of machine-guns. No. 1,371,527; Mar. 15; v. 284; p. 448.
- Thompson, Watson T., Pelham Manor, N. Y. Buffer for vehicles. No. 1,389,229; Aug. 30; v. 289; p. 883.
- Thompson, William E. (See Montilijo, Isidore, assignor.)
- Thompson, William H. (See Thompson, Edward C. and W. H.)
- Thompson, William J., Clyde Park, Mont. Line support and guide. No. 1,371,275; Mar. 15; v. 284; p. 397.
- Thompson, William L., Greenville, Miss., assignor to F. C. Austin, Chicago, Ill. Drag-line-bucket apparatus. No. 1,370,566; Mar. 8; v. 284; p. 199.
- Thompson, William O., assignor of one-half to H. B. Thompson, Spokane, Wash. Cooler. No. 1,399,448; Dec. 6.
- Thompson, William P. (See Morris, Harold A., assignor.)
- Thompson, William W., Chicago, Ill. Switching device. No. 1,382,029; June 21; v. 287; p. 435.
- Thoms, William F. (See Foster, H. C., and Thoms.)
- Thomson, John H., Davenport, Iowa. Manhole-cover. No. 1,388,492; Aug. 23; v. 289; p. 683.
- Thomson, Albert R., Plantsville, Conn. Pickaxe. No. 1,369,499; Feb. 22; v. 283; p. 654.
- Thomson, Alexander, and V. B. Daniels, Sour Lake, Tex. Seal for well-screens and means for setting same. No. 1,382,255; June 21; v. 287; p. 477.
- Thomson, Arthur. (See Ailey, S. E., and Thomson.)
- Thomson, Charles A., Belleville, N. J. Internal-combustion engine. No. 1,370,856; Mar. 8; v. 284; p. 254.
- Thomson, Charles C. (See Craig, J., and Thomson.)
- Thomson Electric Welding Company. (See Gravell, James H., assignor.)
- Thomson Electric Welding Company. (See Woofter, Herbert A., assignor.)
- Thomson, Elihu, Lynn, Mass., assignor to General Electric Company. Leakage-prevention arrangement for fuel-tanks. No. 1,365,567; Jan. 11; v. 282; p. 337.
- Thomson, Elihu, Lynn, Mass., assignor to General Electric Company. Condenser. No. 1,375,982; Apr. 26; v. 285; p. 636.
- Thomson, Elihu, Lynn, Mass., assignor to General Electric Company. Electric-battery system and operating the same. No. 1,396,541; Nov. 8.
- Thomson, Elihu, Swampscott, Mass., assignor to General Electric Company. Electric switching device. No. 1,375,983; Apr. 26; v. 285; p. 636.
- Thomson, Herbert G. (See Ewald, F. W., and Thomson.)
- Thomson Meter Company. (See Lambert, Frank, assignor.)
- Thomson Printing Company. (See Hampshire, H. F., and Cranmer, assignors.)
- Thomson, Samuel P., Fort Wayne, Ind. Pulverized-coal feeder. No. 1,366,434; Jan. 25; v. 282; p. 590.
- Thomson and Taylor Spice Company. (See Forsberg, Alvin L., assignor.)
- Thomson, Thomas W., Los Angeles, Calif. Battery-plate. No. 1,385,507; July 26; v. 288; p. 672.
- Thomson, William D., Madison, Wis. Resilient wheel. No. 1,368,074; Feb. 8; v. 283; p. 290.
- Thomson, William I., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Electrical system. No. 1,384,981; July 19; v. 288; p. 488.
- Thomson, William P. (See Schermerhorn, E. F., and Thomson.)
- Thomson, William P., assignor to The Rail Joint Company, New York, N. Y. Construction for rail-joints. No. 1,374,782; Apr. 12; v. 285; p. 312.
- Thomson, William P., Forest Hills, assignor to The Rail Joint Company, New York, N. Y. Safety-indicator for railway-tracks. No. 1,386,290; Aug. 2; v. 289; p. 65.
- Thomson, William S. (See Macdonald, H. F., and Thomson.)
- Thordarson, Chester H., Chicago, Ill. Electrical transformer. No. 1,378,151; May 17; v. 286; p. 448.
- Thorens, Hermann, Ste. Croix, Switzerland. Automatic brake for talking-machines. No. 1,381,032; June 7; v. 287; p. 136.
- Thoresen, Sverre, Gaarder, Gardermoen, Norway. Stump-pulling apparatus. No. 1,399,092; Dec. 6.
- Thorhaug, Peter, Minneapolis, Minn. Embalmer's drainage-tube. No. 1,367,759; Feb. 8; v. 283; p. 231.
- Thörig, Werner, Zurich, Switzerland. Safe. No. 1,400,104; Dec. 13.
- Thorn, Dawson H., Jonesboro, Ark. Excavator. No. 1,365,748; Jan. 18; v. 282; p. 412.
- Thorn, Howard W., assignor to United States Metals Refining Co., Chrome, N. J. Loading and unloading device. No. 1,395,749; Nov. 1.
- Thorn, J. S., Company. (See Rupp, Charles, assignor.)
- Thornber, John, assignor to Bradford Dyers' Association Limited, Bradford, England. Apparatus for stretching fabrics. No. 1,376,736; May 3; v. 286; p. 67.
- Thornber, John, assignor to Bradford Dyers' Association Limited, Bradford, England. Apparatus for use in connection with machines for bleaching, dyeing, finishing, and otherwise treating fabrics. No. 1,396,980; Nov. 15.
- Thornburgh, Ivan D., Oakland, assignor to American Can Company, San Francisco, Cal. Organized apparatus for applying and sealing lined can ends to can-bodies. No. 1,368,977; Feb. 15; v. 283; p. 513.
- Thornburgh, Ivan D., Berkeley, assignor to American Can Company, San Francisco, Calif. Apparatus for lining can ends. No. 1,370,857; Mar. 8; v. 284; p. 254.
- Thornburgh, Ivan D., Berkeley, assignor to American Can Company, San Francisco, Calif. Organized apparatus for grooving can ends and applying ring-liners thereto. No. 1,400,580; Dec. 20.
- Thordike, Herbert A., Washington, D. C. Jack. No. 1,393,851; Oct. 18.
- Thorne Brothers. (See Weaver, Ira A., assignor.)
- Thorne, Carl B., Hawkesbury, Ontario, Canada. Log-barker and the like. (Reissue.) No. 15,144; July 5; v. 288; p. 162.
- Thorne, Harold, New York, and N. D. Manoilovich, Astoria, N. Y.; said Manoilovich assignor to said Thorne. Antiskid device for automobiles, &c. No. 1,374,252; Apr. 12; v. 285; p. 210.



*Alphabetical list of patentees—Continued.*

- Thornton, Alexander F., Los Angeles, assignor of one-half to R. C. Devereux, Alhambra, Calif. Fruit-cutting machine. No. 1,365,129; Jan. 11; v. 282; p. 253.
- Thornton, David K. (See Moore, C. A., and Thornton.)
- Thornton, Edgar R. (See Clouser, H. E., and Thornton.)
- Thornton, Frank, Jr., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Saddle-iron-stand. No. 1,365,293; Jan. 11; v. 282; p. 285.
- Thornton, Frank, Jr., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Radiant heater for electric ranges. No. 1,387,521; Aug. 16; v. 289; p. 433.
- Thornton, Frank, Jr., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Automobile-engine heater. No. 1,387,522; Aug. 16; v. 289; p. 433.
- Thornton, Frank, Jr., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric heating unit. No. 1,401,657; Dec. 27.
- Thornton, Frank, Jr., Wilkensburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal structure and making same. No. 1,390,596; Sept. 13; v. 290; p. 300.
- Thornton, George A., Port Washington, assignor to Thornton Transformer Company, Inc., New York, N. Y. Method of and apparatus for brazing. No. 1,372,634; Mar. 22; v. 284; p. 716.
- Thornton, John H., Nashville, Tenn. Miter-box. No. 1,381,033; June 7; v. 287; p. 137.
- Thornton, John N., New Britain, Conn. Washing-machine. No. 1,387,630; Aug. 16; v. 289; p. 455.
- Thornton-Pickard Manufacturing Company. (See Pickard, A. G., and Slinger, assignors.)
- Thornton, Stuart R., Berkeley, Calif. Internal-combustion engine. No. 1,385,161; July 19; v. 288; p. 525.
- Thornton Transformer Company. (See Thornton, George A., assignor.)
- Thornton, William A. (See Holder, F. J., and Steward, assignors.)
- Thornycroft, John E. and T., Westminster, England. Boat for discharging explosive bodies. No. 1,368,075; Feb. 8; v. 283; p. 290.
- Thornycroft, Tom. (See Thornycroft, John E. and T.)
- Thorold, Frederick W. (See Bannon, J., and Thorold.)
- Thorp, Edward J., assignor to A. G. Spalding & Bros., New York, N. Y. Supporter and protector. No. 1,381,254; June 14; v. 287; p. 229.
- Thorp, Franklin and H. T., Whitefield, near Manchester, England. Injector for gas-burners. No. 1,387,565; Aug. 16; v. 289; p. 442.
- Thorp, Harvey T. (See Thorp, Franklin and H. T.)
- Thorpe, Elizabeth, Clearwater, Fla. Garment-marker and skirt-gage. No. 1,372,107; Mar. 22; v. 284; p. 615.
- Thorpe, Walter W., Pelham, assignor to Electric Phonograph Corporation, New York, N. Y. Phonograph. No. 1,382,692; June 28; v. 287; p. 615.
- Thorson, Theodore, Spokane, Wash. Rope-holder. No. 1,368,667; Feb. 15; v. 283; p. 454.
- Thorsten, Alfred F., Brooklyn, N. Y. Fishhook. No. 1,379,422; May 24; v. 286; p. 762.
- Thraikill, James C., Chicago, Ill. Embroidery-needle. No. 1,398,207; Nov. 22.
- Thrane, Victor, Christiania, Norway. Apparatus for the production of nitrogen compounds from metal carbids. No. 1,364,157; Jan. 4; v. 282; p. 21.
- Thrasher, Paul B., assignor to William Warnock Company, Sioux City, Iowa. Stock-waterer. No. 1,395,750; Nov. 1.
- Three Wheel Drive Tractor Co. (See Schuman, James B., assignor.)
- Threet, Preston E., assignor of one-third to A. Dredden and one-third to O. G. Jones, Philadelphia, Pa. Combination-tool. No. 1,390,400; Sept. 13; v. 290; p. 260.
- Threlkeld, Rosco S. (See Threlkeld, Stephen A., assignor.)
- Threlkeld, Stephen A., assignor to R. S. Threlkeld, Hutchinson, Kans. Vehicle-spring. No. 1,391,644; Sept. 20; v. 290; p. 574.
- Thrift-Garter Co. (See Burt, James H., assignor.)
- Thrift Jar Company, The. (See Bauer, John J., assignor.)
- Thring, Leonard G. P., Cambridge, England. Pressure indicator or recorder. No. 1,398,608; Nov. 29.
- Throsen, Sigurd, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Semi-automatic winding-machine. No. 1,367,999; Feb. 8; v. 283; p. 276.
- Throsen, Sigurd, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Resistance welding-machine. No. 1,376,657; May 3; v. 286; p. 52.
- Throop, Gerald W., and J. W. Dundon, Erie, Pa. Paper receptacle. No. 1,383,173; June 28; v. 287; p. 706.
- Throop, James C., Columbus, Kans. Cuff-button. No. 1,371,131; Mar. 8; v. 284; p. 306.
- Throop, William D., Norwich, Conn. Electric switch. No. 1,393,649; Oct. 11.
- Thropp, Joseph W., Trenton, N. J. Clutch. No. 1,380,271; May 31; v. 286; p. 996.
- Thullen, Christopher F., Chicago, Ill., assignor to On-The-Dot-Level Device. Level device. No. 1,393,328; Oct. 11.
- Thum, Rudolf, Baldwin, N. Y. Gun. No. 1,396,349; Nov. 8.
- Thuman, Frederic, London, England. Gas-producer. No. 1,398,609; Nov. 29.
- Thun, Hermann, Essen-Ruhr, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Stamp-delivery machine. No. 1,382,573; June 21; v. 287; p. 538.
- Thuot, Joseph P. W. (See Simkiss, Edwin, assignor.)
- Thurber, Edwin L. (See Gormley, J. J., and Thurber.)
- Thurman, George R., assignor of one-half to S. D. Gregson, St. Louis, Mo. Buckle. No. 1,377,233; May 10; v. 286; p. 219.
- Thurn, Lloyd A., Fremont, Ohio. Motor-meter light. No. 1,390,939; Sept. 13; v. 290; p. 369.
- Thursby, William M., Watrous, Saskatchewan, Canada. Lubricator. No. 1,388,672; Aug. 23; v. 289; p. 717.
- Thurston, Arthur L. (See Kirkham, C. B., and Thurston.)
- Thurston-Bernay Co., The. (See Bernay, Henri, assignor.)
- Thurston, Elmer A., Chippewa Falls, Wis. Belt-fastener. No. 1,392,722; Oct. 4.
- Thurston, Ernest B., assignor to The Houghton Elevator & Machine Co., Toledo, Ohio. Door-interlock. No. 1,374,339; Apr. 12; v. 285; p. 226.
- Thurston, Ernest B., assignor to The Houghton Elevator & Machine Co., Toledo, Ohio. Gate device. No. 1,399,905; Dec. 13.
- Thurston, Frank A., *et al.* (See O'Leary, Edward J., assignor.)
- Thurston, Fred W. (See Bernay, Henri, assignor.)
- Thurston, George S., Oakland, Calif. Gate-operating mechanism. No. 1,367,843; Feb. 8; v. 283; p. 247.
- Thwaites, William H., assignor to Thwaites X-Ray Company, Grand Rapids, Mich. Method of and apparatus for winding transformer-coils. No. 1,369,855; Mar. 1; v. 284; p. 20.
- Thwaites X-Ray Company. (See Thwaites, William H., assignor.)
- Thygeson, E. Theo I., *et al.* (See Snyder, George C., assignor.)
- Thyssen, Conrad, assignor to Rheinische Metallwarenfabrik Gebr. Schumacher, G. m. b. H., Aachen, Germany. Vise. No. 1,389,568; Aug. 30; v. 289; p. 950.
- Tibbels, Myron E., Fremont, Ohio. Gib-adjuster. No. 1,398,610; Nov. 29.
- Tibbets, Earl E., Hebron, Nebr. Valve-spring lifter. No. 1,384,648; July 12; v. 288; p. 339.
- Tibbets, Frank L., assignor, by mesne assignments, to E. S. Stack, Somerville, Mass. Pipe-coupling. No. 1,398,083; Nov. 22.
- Tibbets, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,369,946; Mar. 1; v. 284; p. 36.
- Tibbets, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,377,861; May 10; v. 286; p. 340.
- Tibbets, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,384,281; July 12; v. 288; p. 261.
- Tibbets, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Indicator mechanism. No. 1,391,146; Sept. 20; v. 290; p. 474.
- Tibbets, Milton, Detroit, Mich., assignor, by mesne assignments, to J. E. Gleason, trustee, Rochester, N. Y. Gear-cutting machine. No. 1,398,477; Nov. 29.
- Tibbets, Raymond F., Chicago, Ill. Shaving-brush. No. 1,396,474; Nov. 8.
- Tibbitts, Wiley P., Charleston, S. C. Life-preserver. No. 1,390,474; Sept. 13; v. 290; p. 274.
- Tibbitts, Herbert O., Cleveland, Ohio. Device for creasing cardboard and the like. No. 1,367,675; Feb. 8; v. 283; p. 214.
- Tibbitts, Howard C., *et al.* (See Koch, J. H., and Larsen, assignors.)
- Tibbles, Percy T., London, England. Method of and means for producing optical illusions. No. 1,387,631; Aug. 16; v. 289; p. 455.
- Tice, Percival S., Chicago, Ill. Air-washer for internal-combustion engines. No. 1,379,062; May 24; v. 286; p. 694.
- Tice, Percival S., Chicago, Ill. Mixture-governing device for internal-combustion engines. No. 1,385,733; July 26; v. 288; p. 718.
- Tice, Percival S., Chicago, Ill. Pneumatic liquid-supply-tank gage. No. 1,392,538; Oct. 4.
- Tidd Recording Clock Company. (See Tidd, Walter J., assignor.)
- Tidd, Walter J., assignor to Tidd Recording Clock Company, Springfield, Mass. Watchman's double-recording and signal device. No. 1,378,152; May 17; v. 286; p. 448.
- Tidewater Equipment Corporation. (See Esterline, J. W., and Angus, assignors.)
- Tidewater Equipment Corporation. (See Hanson, Albert J., assignor.)
- Tidewater Paper Mills Company. (See West, J. B., and Walz, assignors.)
- Tidmarsh, Harry E., assignor of one-half to Union Iron Works, Bangor, Me. Pulp or paper machine. No. 1,387,954; Aug. 16; v. 289; p. 519.
- Tidmarsh, William R., assignor of one-half to Union Iron Works, Bangor, Me. Wood-pulp grinder. No. 1,398,753; Nov. 29.
- Tiedemann, Henry, assignor to Splitdorf Electrical Company, Newark, N. J. Generator attachment and timing means for gas-engines. No. 1,371,276; Mar. 15; v. 284; p. 397.



*Alphabetical list of patentees—Continued.*

- Tiedemann, Henry, assignor to Splittorf Electrical Company, Newark, N. J. Automatic impulse starting apparatus. No. 1,400,581; Dec. 20.
- Tiefel, Charles G., Fairport, assignor to Todd Protectograph Company, Rochester, N. Y. Check-protector. No. 1,372,323; Mar. 22; v. 284; p. 657.
- Tiefel, Charles G., Fairport, assignor to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,386,383; Aug. 2; v. 289; p. 82.
- Tiefel, Charles G., assignor to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,397,118; Nov. 15.
- Tieke, Harry, Oakland, Calif. Barrel-filling stand. No. 1,369,856; Mar. 1; vol. 284; p. 20.
- Tiencken, John H., Charleston, S. C. Sash-lock. No. 1,374,783; Apr. 12; v. 285; p. 312.
- Tiencken, William N., Savannah, Ga. Brace. No. 1,395,876; Nov. 1.
- Tierney, Jack J., assignor of one-half to J. P. Wartick, St. Albans, V. Va. Wheel-rim. No. 1,369,575; Feb. 22; v. 283; p. 669.
- Tierney, John W., Ashtree, and F. Hills, Upton, London, England. Pneumatic drilling-machine. No. 1,393,852; Oct. 18.
- Tierney, Stephen J. (See McGowan, W. W., Heller, and Tierney.)
- Tietz, Walter M., Newark, N. J. Device for making designs. No. 1,400,838; Dec. 20.
- Tiffany & Co. (See Corby, Edward A., assignor.)
- Tiffany, Henry L., South Dartmouth, Mass. Winding and shipping cone for knitting and like machines and caps therefor. No. 1,367,639; Feb. 8; v. 283; p. 207.
- Tiffany, Homer A., Paterson, N. J. Spindle. No. 1,378,497; May 17; v. 286; p. 513.
- Tigerman, William H. (See Smith, Josiah H., assignor.)
- Tiikkainen, Andrew, assignor of one-half to H. V. Nurmi, Virginia, Minn. Oil-can and cup holder. No. 1,377,160; May 3; v. 286; p. 148.
- Tilden, Elbert R., West Concord, Minn. Theft-preventing attachment for steering-wheels. No. 1,395,532; Nov. 1.
- Tileston, George H., Kansas City, Mo. Eye-shade. No. 1,382,693; June 28; v. 287; p. 615.
- Tileston, George H., Chicago, Ill. Electromagnetic igniter. No. 1,389,280; Aug. 30; v. 289; p. 893.
- Till, Henry, Pittsburg, Calif. Can-opener. No. 1,392,466; Oct. 4.
- Tiller, David M., assignor of one-eighth to J. R. Hall, one-eighth to C. B. Talbot, and one-eighth to S. P. Hazen, Broken Arrow, Okla. Locking device for motor-vehicles. No. 1,386,543; Aug. 2; v. 289; p. 113.
- Tiller, George E., Sioux City, Iowa. Tire-mold. No. 1,365,294; Jan. 11; v. 282; p. 235.
- Tillert, Edward, Racine, Wis. Key attachment. No. 1,391,921; Sept. 27; v. 290; p. 704.
- Tillet, Charles H., and T. A. Allan, Montreal, Quebec, Canada. Crossing-gate. No. 1,384,544; July 12; v. 288; p. 316.
- Tillman, Ferdinand J., St. Louis, Mo. Hair-cutting device. No. 1,393,053; Oct. 11.
- Tillman, Ferdinand J., St. Louis, Mo. Calculating-machine. No. 1,394,800; Oct. 25.
- Tillman, Ferdinand J., St. Louis, Mo., assignor to Type-writer Calculating Attachment Company. Calculating attachment for typewriting-machines. No. 1,379,322; May 24; v. 286; p. 744.
- Tillotston, Edward, assignor to Potter's Asbestos Company Limited, Rochdale, England. Carding-engine. No. 1,395,877; Nov. 1.
- Tillson, Edwin D., Evanston, Ill. Lighting device. No. 1,373,845; Apr. 5; v. 285; p. 90.
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Motion-picture-projection apparatus. No. 1,385,162; July 19; v. 288; p. 526.
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Lens. No. 1,393,853; Oct. 18.
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Lens attachment. No. 1,395,311; Nov. 1.
- Tillyer, Edgar D., and C. H. Kerr, assignors to American Optical Company, Southbridge, Mass. Lens-testing instrument. No. 1,383,678; July 5; v. 288; p. 87.
- Tilson, William, Herrin, Ill. Aeroplane. No. 1,400,582; Dec. 20.
- Timanus, Eugene H., *et al.* (See Webb, Ernest E., assignor.)
- Timberlake, Daniel T., assignor to Universal Motor Truck and Traction Engine Company, St. James, Mo. Motor-truck steering-gear. No. 1,373,777; Apr. 5; v. 285; p. 77.
- Timmerman, Eugene J., Syracuse, N. Y. Lubricator. No. 1,364,464; Jan. 4; v. 282; p. 81.
- Timken-Detroit Axle Company, The. (See Alden, Herbert W., assignor.)
- Timken-Detroit Axle Company, The. (See Vanderbeek, Herbert, assignor.)
- Timken Roller Bearing Co., The. (See Schlaupitz, Oswald, assignor.)
- Timken Roller Bearing Company. (See Buckwalter, Tracy V., assignor.)
- Timken Roller Bearing Company, The. (See Drowns, Irvin, assignor.)
- Timken Roller Bearing Company, The. (See Lothrop, Marcus T., assignor.)
- Timken Roller Bearing Company, The. (See Lordenslager, Earl, assignor.)
- Timken Roller Bearing Company, The. (See Schlaupitz, Oswald, assignor.)
- Timken Roller Bearing Company, The. (See Strong, E. G., and Rohn, assignors.)
- Timm, William A. (See Griffin, J. T., and Timm.)
- Timm, William A., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Container for insulating or impregnating compounds. No. 1,386,912; Aug. 9; v. 289; p. 261.
- Timmis, Albert H., Harrow, assignor to Hamilton & Company (London) Limited, London, England. Paint and other brush. No. 1,372,108; Mar. 22; v. 284; p. 615.
- Timmons, Edward B., Charlotte, N. C. Seeder. No. 1,390,940; Sept. 13; v. 290; p. 370.
- Timmons, John S., New York, N. Y. Telephone. No. 1,385,286; July 19; v. 288; p. 550.
- Timpen Roller Bearing Company. (See Buckwalter, Tracy V., assignor.)
- Timson, William, assignor to W. & T. Avery, Limited, Birmingham, England. Weighing-scale. No. 1,398,708; Nov. 29.
- Tin Decorating Company of Baltimore, The. (See Holt-haus, George, assignor.)
- Tingley, Philo B., New York, N. Y. Micrometer line-spacing adjustment for writing-machines. No. 1,381,143; June 14; v. 287; p. 210.
- Tinius Olsen Testing Machine Company. (See Olsen, Thorsten Y., assignor.)
- Tinius Olsen Testing Machine Company. (See Olsen, Tinius, assignor.)
- Tinius Olsen Testing Machine Company. (See Owens, James W., assignor.)
- Tinker, Frank, Erdington, Birmingham, England. Production of petrol. No. 1,393,184; Oct. 11.
- Tinkham, Eugene L., assignor to Draper Corporation, Hopedale, Mass. Ward stop-motion for looms. No. 1,385,734; July 26; v. 288; p. 718.
- Tinnerman, Herbert E. (See Stern, M. C., and Tinnerman.)
- Tinney, James R., Phoenix, Ariz. Pump. No. 1,398,450; Nov. 29.
- Tipograph, Carl M., New York, N. Y. Sweatband. No. 1,392,539; Oct. 4.
- Tirado, Alfred T., assignor of one-half to F. C. Schaeffer, Kansas City, Mo. Child's vehicle. No. 1,385,761; July 26; v. 288; p. 723.
- Tiranty, Philippe H. L., and J. T. F. Conti, Paris, France. Stamping apparatus. No. 1,386,142; Aug. 2; v. 289; p. 36.
- Tirrill, Allen A., Pittsburgh, Pa. Light-regulator. No. 1,376,841; May 3; v. 286; p. 88.
- Tirrill, Allen A., Pittsburgh, Pa. Connecting-link. No. 1,380,124; May 31; v. 286; p. 969.
- Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Pivotal mounting. No. 1,392,234; Sept. 27; v. 290; p. 767.
- Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulating system. No. 1,396,898; Nov. 15.
- Tisch, George C. L., Elizabeth, N. J. Chenille untwisting and winding machine. No. 1,398,754; Nov. 29.
- Tisch, George C. L., assignor to Tisch Machine Tool and Die Works, Elizabeth, N. J. Jacquard mechanism. No. 1,381,034; June 7; v. 287; p. 137.
- Tisch, George C. L., assignor to Tisch Machine & Tool & Die Works, Inc., Elizabeth, N. J. Jacquard-drum. No. 1,389,398; Aug. 30; v. 289; p. 916.
- Tisch Machine Tool and Die Works. (See Tisch, George C. L., assignor.)
- Tisch, William, Milwaukee, Wis. Box-corner construction. No. 1,383,499; July 5; v. 288; p. 50.
- Tischer, Edward R., assignor of forty-five per cent. to G. Emmert, Houston, Tex. Roller for cotton-gins. No. 1,370,383; Mar. 1; vol. 284; p. 119.
- Tisdale, Junius E. (See Tabert, A. W., and Tisdale.)
- Tisman, Abraham, New York, N. Y. Spring. No. 1,381,255; June 14; v. 287; p. 230.
- Tissell, Casten I., Stockholm, Sweden. Explosive and manufacturing it. No. 1,393,984; Oct. 18.
- Tissier, Louis E., Batna, Algeria. Industrial use of exhaust-gases of internal-combustion engines. No. 1,364,656; Jan. 4; v. 282; p. 117.
- Titan Co., A/S. (See Farup, Peder, assignor.)
- Titan Company, A/S. (See Goldschmidt, Victor M., assignor.)
- Titanium Pigment Company. (See Barton, L. E., and Gardner, assignors.)
- Titcomb, George E., Brooklyn, N. Y. Apparatus for freight transference. No. 1,373,464; Apr. 5; v. 285; p. 17.
- Titcomb, Harvey B., Los Angeles, Calif. Commutation-book. No. 1,370,244; Mar. 1; vol. 284; p. 93.
- Titeflex Metal Hose Corporation. (See Brinkman, L. H., Fulton, and Shellmer, assignors.)
- Titeflex Metal Hose Corporation. (See Brinkman, Louis H., assignor.)
- Titeflex Metal Hose Corporation. (See Fulton, William H., assignor.)
- Title Insurance and Trust Company. (See Hanson, Earl C., assignor.)



*Alphabetical list of patentees—Continued.*

- Titterington, Morris M., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Air-distance indicator for aircraft. No. 1,368,000; Feb. 8; v. 283; p. 276.
- Tittle, John B., Jefferson, Ohio. Inner tube for tires. No. 1,366,849; Jan. 25; v. 282; p. 673.
- Titus, Bliss E. (See Bunnell, G. H., and Titus, assignor.)
- Titus, Odeon H., Jamesville, N. Y. Smoke-purifying attachment for fuel-burning heaters. No. 1,392,093; Sept. 27; v. 290; p. 739.
- Tjæransen, Nils J., Christiansund, Norway. Combined skirt and sporting-trousers. No. 1,374,040; Apr. 5; v. 285; p. 128.
- Toal, Daniel A. (See Boyle, J. E., and Toal.)
- Tobacco, John, Rochester, N. Y. Balloon toy. No. 1,392,861; Oct. 4.
- Tobey, Charles W., Fairhaven, assignor to M. M. Rhodes & Sons Company, Taunton, Mass. Upholstery-nail. No. 1,397,388; Nov. 15.
- Tobin, Harry D., Empire, Mich. Removable horseshoe. No. 1,375,428; Apr. 19; v. 285; p. 499.
- Tobin, James H., Erie, Pa. Automobile-bumper. No. 1,376,301; Apr. 26; v. 285; p. 698.
- Tobin, Kenneth J., Chicago, Ill. Sliding-door hanger. No. 1,373,684; Apr. 5; v. 285; p. 59.
- Tobin, Redmond J., Vallejo Calif. Torch. No. 1,370,384; Mar. 1; vol. 284; p. 119.
- Tobler, Henri, Hackensack, N. J. Separating halogen from natural brines. No. 1,380,851; June 7; v. 287; p. 101.
- Tobler, Henri, Hackensack, assignor to American Bromine Company, Maywood, N. J. Electrolytic apparatus. No. 1,380,852; June 7; v. 287; p. 101.
- Tobler, Henri, Hackensack, assignor to American Bromine Company, Maywood, N. J. Electrolytic apparatus. No. 1,380,853; June 7; v. 287; p. 101.
- Toburen, William H., Fairmont, Nebr. Band-holder. No. 1,372,109; Mar. 22; v. 284; p. 615.
- Todaro, Ignatius, New York, N. Y. Cutter and grater. No. 1,364,220; Jan. 4; v. 282; p. 34.
- Todd, John H., Cleveland, Ohio. Laundry-checking device. No. 1,399,906; Dec. 13.
- Todd, Libanus M., assignor to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,364,963; Jan. 11; v. 282; p. 221.
- Todd, Libanus M., and M. H. Johanson, assignors to Todd Protectograph Company, Rochester, N. Y. Check-writing machine. No. 1,364,962; Jan. 11; v. 282; p. 221.
- Todd, Lincoln. (See Todd, Ney and L.)
- Todd, Ney and L., Arkville, N. Y. Antiskid device for pneumatic tires. No. 1,367,640; Feb. 8; v. 283; p. 207.
- Todd Protectograph Company. (See La May, Arthur C., assignor.)
- Todd Protectograph Company. (See Payne, Walter B., assignor.)
- Todd Protectograph Company. (See Steele, Herbert H., assignor.)
- Todd Protectograph Company. (See Tiefel, Charles G., assignor.)
- Todd Protectograph Company. (See Todd, L. M., and Johanson, assignors.)
- Todd Protectograph Company. (See Todd, Libanus M., assignor.)
- Todd Protectograph Company. (See Uhl, William, assignor.)
- Todd, R. B., *et al.* (See Harp, William I., assignor.)
- Todd, Samuel J., assignor of one-fourth to H. N. A. McLean and one-fourth to R. M. Tate, Detroit, Mich. Puncture-proof shoe for pneumatic tires. No. 1,393,185; Oct. 11.
- Todd Shipyards Corporation. (See Erickson, Daniel E., assignor.)
- Todt, Clarence F., Morrisonville, Ill. Grain-loader. No. 1,366,435; Jan. 25; v. 282; p. 590.
- Todt, Frederick G., Philadelphia, Pa. Sand-discharging device. No. 1,375,541; Apr. 19; v. 285; p. 520.
- Toepfer, Charles and E. J., Milwaukee, Wis. Headlight-shield. No. 1,388,221; Aug. 23; v. 289; p. 628.
- Toepfer, Edward J. (See Toepfer, Charles and E. J.)
- Toepfer, Fred, Victoria, Kans. Unloading device for header-boxes. No. 1,373,987; Apr. 5; v. 285; p. 119.
- Tofani, Arthur, Philadelphia, Pa. Folding shiftable tabletop. No. 1,367,216; Feb. 1; v. 283; p. 67.
- Togami, Komanosuke, Fukuoka, Japan. Hydraulic gastric examiner or hydraulic stomach-examining apparatus. No. 1,390,844; Sept. 13; v. 290; p. 350.
- Togano, Meijiro, Tokyo, Japan. Quick method for brewing soy. No. 1,394,236; Oct. 18.
- Togersen, Bernt E., Seattle, Wash. Theater. No. 1,397,064; Nov. 15.
- Togersen, Bernt E., Seattle, Wash., assignor to The Self Bailing Life Boat Company, Inc. Lifeboat. No. 1,398,451; Nov. 29.
- Tokheim, Albert, Thor, Iowa. Tire-shield and clenchers therefor. No. 1,399,826; Dec. 13.
- Tokheim, John J., Cedar Rapids, Iowa. Bottle-capper. No. 1,376,906; May 3; v. 286; p. 101.
- Tokheim Oil Tank & Pump Company, The. (See Dutton, W. H., and Stone, assignors.)
- Tokheim Oil Tank and Pump Company. (See Ellers, Frank B., assignor.)
- Toledo Glass Company, The. (See Owens, Michael J., assignor.)
- Toledo Machine & Tool Company, The. (See Byerlein, Arthur A., assignor.)
- Toledo Scale Company. (See Bergen, Harry S., assignor.)
- Toledo Scale Company. (See Dunn, Henry F., assignor.)
- Toledo Scale Company. (See Haggood, Clarence H., assignor.)
- Toledo Scale Company. (See Hem, Halvor O., assignor.)
- Toledo Scale Company. (See Hurt, Samuel N., assignor.)
- Toledo Scale Company. (See Koplin, Frank J., assignor.)
- Toledo Scale Company. (See Myers, Hubert A., assignor.)
- Toledo Scale Company. (See Reeves, Orwell C., assignor.)
- Toledo Scale Company. (See Theobald, Henry, assignor.)
- Toledo Scale Company. (See Thomas, Edward G., assignor.)
- Toledo Scale Company. (See Wetzel, Lewis C., assignor.)
- Toler, Hubert, Sweetwater, Tex. Safety medicine-spoon. No. 1,390,475; Sept. 13; v. 290; p. 275.
- Toler, William E., Pawnee, Okla. Attachment for grain-separators. No. 1,392,094; Sept. 27; v. 290; p. 739.
- Toles, Justin K., San Francisco, Calif. Built-up board of fiberized cereal straw. No. 1,369,500; Feb. 22; v. 283; p. 654.
- Tolhurst Machine Works. (See Bryson, Tandy A., assignor.)
- Tolhurst Machine Works. (See Scovill, James P., assignor.)
- Toliver, John W., Cleveland, Ohio. Signal. No. 1,369,576; Feb. 22; v. 283; p. 669.
- Toll, Herman H., and F. C. Duff, Clarinda, Iowa. Eccentric driving mechanism for power washing-machines. No. 1,379,732; May 31; v. 286; p. 895.
- Tollagssen, Olaf, St. Louis, Mo. Steam-cooking device. No. 1,375,028; Apr. 19; v. 285; p. 422.
- Tolman, George S., Jr., Walpole, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. No. 1,400,700; Dec. 20.
- Tolman, Scott H., Boston, Mass. Hair-curler. No. 1,370,932; Mar. 8; v. 284; p. 269.
- Tolton, Dolphus M., Pomona, Calif. Display-panel. No. 1,391,349; Sept. 20; v. 290; p. 515.
- Tomasek, Frank, Chicago, Ill. Automobile bumper. No. 1,396,944; Nov. 15.
- Tomasulo, Epifanio V. N., Cincinnati, Ohio. Barber's hair-cutting machine. No. 1,366,975; Feb. 1; v. 283; p. 19.
- Tomasulo, Epifanio V. N., Cincinnati, Ohio. Barber's hair-cutting machine. No. 1,379,662; May 31; v. 286; p. 882.
- Tomasulo, Epifanio V. N., Cincinnati, Ohio. Window-shade guard. No. 1,379,663; May 31; v. 286; p. 882.
- Tomasulo, Epifanio V. N., Cincinnati, Ohio. Window-shade guard. No. 1,379,664; May 31; v. 286; p. 882.
- Tomasulo, Epifanio V. N., Cincinnati, Ohio. Automatic hair-cutting machine. No. 1,380,272; May 31; v. 286; p. 996.
- Tomaszewski, John, Taunton, Mass. Keyhole-guard. No. 1,378,918; May 24; v. 286; p. 667.
- Tomb, Grant H., assignor of one-half to Jacob G. Tomb, Slate Run, Pa. Railway-tie. No. 1,381,441; June 14; v. 287; p. 264.
- Tomb, Jacob G. (See Tomb, Grant H., assignor.)
- Tomchin, Louis, Brooklyn, N. Y. Watch. No. 1,382,256; June 21; v. 287; p. 477.
- Tomczewski, John. (See Jonor, J., and Tomczewski.)
- Tomec, John J., Trenton, N. J. Floor-covering. No. 1,378,498; May 17; v. 286; p. 514.
- Tomecek, Martin. (See Martinka, Jahn K. and E. K., assignors.)
- Tomlinson, Charles H., assignor to The Tomlinson Coupler Company, Mansfield, Ohio. Automatic car and electric coupling and reversing-switch. No. 1,381,852; June 14; v. 287; p. 342.
- Tomlinson, Clarence L., New York, N. Y. Mirror. No. 1,372,258; Mar. 22; v. 284; p. 644.
- Tomlinson Coupler Company, The. (See Tomlinson, Charles H., assignor.)
- Tomlinson, Daniel W., Jr. (See Adsit, William H., assignor.)
- Tomlinson, Edward J., assignor to Splitdorf Electrical Company, Newark, N. J. Phonograph-stop. No. 1,399,327; Dec. 6.
- Tomlinson, George E., Winchester, Ky. Table. No. 1,395,166; Oct. 25.
- Tomlinson, Herbert O., Wheaton, Ill. Semi-indirect-lighting device. No. 1,382,145; June 21; v. 287; p. 456.
- Tomlinson, Herbert O., Wheaton, Ill. Electric-light fixture. No. 1,384,578; July 12; v. 288; p. 323.
- Tomlinson, Horace, Philadelphia, Pa. Billet-charging apparatus. No. 1,390,845; Sept. 13; v. 290; p. 350.
- Tomoda Goshi Kaisha. (See Ikeda, Sumiyuki, assignor.)
- Tompkins, Albert E., Hants, England. Steam-drier. No. 1,386,211; Aug. 2; v. 289; p. 50.
- Tompkins, Ernest E., Philadelphia, Pa. Bushing. No. 1,373,778; Apr. 5; v. 285; p. 77.
- Tompkins, Gilbert, Thompson, Conn. Agricultural implement. No. 1,394,651; Oct. 25.
- Tompkins, James H., and C. J. Foster, Webster, N. Y. Fruit-handling machine. No. 1,379,600; May 24; v. 286; p. 795.
- Tompkins, Walter L., Frisco, Tex. Wire-stretcher. No. 1,364,530; Jan. 4; v. 282; p. 94.
- Tondeur, Cleon H., Canastota, N. Y. Apparatus for vaporizing and burning fuel-oil for steam-boilers. No. 1,366,976; Feb. 1; v. 283; p. 19.



- Tone, Fred I., assignor to Child H. Wills, Detroit, Mich. Steering mechanism for automobiles. No. 1,396,604; Nov. 8.
- Toner, James J. (See Toner, William J. and J. J.)
- Toner, William J. and J. J., South Kensington, England. Soap-box for shaving purposes. No. 1,379,885; May 31; v. 286; p. 923.
- Tonglet, L. Earl, et al. (See Warrington, William J., assignor.)
- Tonguet, Howard A., assignor of one-half to J. H. Uncapher, Marlon, Ohio. Curtain-pole bracket. No. 1,375,617; Apr. 19; v. 285; p. 535.
- Tonkin, Edwin C., Stockwell, London, and H. T. Collins, Hampstead, London, England. Tap for controlling the supply of fluids. No. 1,381,766; June 14; v. 287; p. 326.
- Tonneau Shield Co. (See Conner, Harrison W., assignor.)
- Tønnessen, Martin A., Bergen, Norway. Instrument for measuring angles. No. 1,381,520; June 14; v. 287; p. 278.
- Toof, Franklin P., Paducah, Ky., and C. E. Lancaster, Washington, D. C.; said Lancaster assignor to said Toof. Mop. No. 1,371,988; Mar. 15; v. 284; p. 536.
- Tooker, Charles O., assignor of one-half to R. C. Fry, Richmond, Ind. Ratchet socket-wrench. No. 1,373,779; Apr. 5; v. 285; p. 77.
- Tooker, Harry B. (See Barnard, A. C., and Banks, assignors.)
- Tooker, Harry S., assignor of one-half to S. T. Nesbitt and J. L. Shafer, Joplin, Mo. Pump. No. 1,400,188; Dec. 13.
- Tooker, Nathaniel L., Brooklyn, N. Y. Mail-signing book. No. 1,395,372; Nov. 1.
- Toole, Herbert, West New York, N. J. Toy vehicle. No. 1,371,132; Mar. 8; v. 284; p. 307.
- Toole, John, Verona, assignor to Union Steel Casting Company, Pittsburgh, Pa. Making sand molds. No. 1,369,947; Mar. 1; vol. 284; p. 37.
- Toombs, Claude H., assignor to The Toombs Manufacturing Company, Geneva, Ill. Water-heater. No. 1,398,755; Nov. 29.
- Toombs Manufacturing Company, The. (See Toombs, Claude H., assignor.)
- Toomey, John F. (See Arnold, O. M., and Toomey.)
- Toomey, John F., assignor to American Telephone and Telegraph Company, New York, N. Y. Apparatus for testing repeater-circuits. No. 1,364,158; Jan. 4; v. 282; p. 22.
- Toomey, John F., assignor to American Telephone and Telegraph Company, New York, N. Y. Through-ringing repeater-circuits. No. 1,364,159; Jan. 4; v. 282; p. 22.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Means for controlling repeaters. No. 1,364,964; Jan. 11; v. 282; p. 221.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone-call-transfer system. No. 1,364,965; Jan. 11; v. 282; p. 221.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Busy-signal-testing apparatus. No. 1,372,050; Mar. 22; v. 284; p. 604.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Electrical relay. No. 1,380,752; June 7; v. 287; p. 81.
- Toomey, John F., assignor to American Telephone and Telegraph Company, New York, N. Y. Busy back circuits. No. 1,381,368; June 14; v. 287; p. 250.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone-call-wire circuits. No. 1,383,038; June 28; v. 287; p. 680.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Means for controlling repeater-circuits. No. 1,400,189; Dec. 13.
- Toomey, John F., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone system. No. 1,400,583; Dec. 20.
- Toomey, John F., New York, N. Y., and C. G. Spencer, East Orange, N. J., assignors to American Telephone and Telegraph Company. Portable repeater apparatus. No. 1,378,919; May 24; v. 286; p. 667.
- Toomey, John F., New York, and C. F. Demarest, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Repeater-network-selecting apparatus. No. 1,380,751; June 7; v. 287; p. 81.
- Toomey, John F., New York, and C. S. Demarest, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Automatic transmission-controlling means. No. 1,384,579; July 12; v. 288; p. 323.
- Tootal, Sydney M., Blackpool, England. Dye. No. 1,367,930; Feb. 8; v. 283; p. 263.
- Toothaker, Fred E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making molded-counter turn-shoes. No. 1,368,373; Feb. 15; v. 283; p. 306.
- Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Spacing mechanism. No. 1,381,256; June 14; v. 287; p. 250.
- Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Driving and stopping mechanism. No. 1,391,922; Sept. 27; v. 290; p. 704.
- Toplis, William G., Philadelphia, Pa. Recovering alcohol from fermented liquids and apparatus therefor. No. 1,364,160; Jan. 4; v. 282; p. 22.
- Toplitz, Samson L., New York, N. Y. Mop-holder. No. 1,378,499; May 17; v. 286; p. 514.
- Toplitz, Samson L., New York, N. Y. Mop. No. 1,398,245; Nov. 29.
- Topposian, Leon M., Springfield, Mass. Locking device for incandescent lamps. No. 1,391,868; Sept. 27; v. 290; p. 693.
- Topor, Jacob, assignor to Handy Furniture Manufacturing Company, Chicago, Ill. Table. No. 1,385,762; July 26; v. 288; p. 723.
- Topp, Charles A., Lebanon, Mo. Window and door securer. No. 1,392,467; Oct. 4.
- Topping, Harry L. (See Lucier, Joseph W., assignor.)
- Torbensen Axle Company, The. (See Carlson, Gustav W., assignor.)
- Torbensen Axle Company, The. (See Torbensen, Viggo V., assignor.)
- Torbensen, Viggo V., assignor to The Torbensen Axle Company, Cleveland, Ohio. Rear axle. No. 1,380,025; May 31; v. 286; p. 950.
- Torbensen, Viggo V., assignor to The Torbensen Axle Company, Cleveland, Ohio. Driving mechanism for motor-vehicles. No. 1,397,491; Nov. 15.
- Torbensen, Viggo V., assignor to The Torbensen Axle Company, Cleveland, Ohio. Motor-vehicle driving mechanism. No. 1,397,495; Nov. 15.
- Torbet, Mayson W., Jackson, Mich., assignor to Vibration Specialty Company, Philadelphia, Pa. Machine for determining the static and dynamic unbalance of rotating bodies. No. 1,392,028; Sept. 27; v. 290; p. 727.
- Torchia, Joseph, Cincinnati, Ohio. Lady's house-dress. No. 1,365,749; Jan. 18; v. 282; p. 412.
- Torchia, Julius C., Hazleton, Pa. Automatic starting and stopping mechanism for phonographs. No. 1,389,169; Aug. 30; v. 289; p. 871.
- Toren, Charles F. (See Schwarzmann, W. E., and Toren.)
- Torkelson, Isak O., New Brighton, N. Y. Protective device for chisellers. No. 1,370,933; Mar. 8; v. 284; p. 269.
- Torkildson, Torl, Lake City, S. D. Jack. No. 1,394,375; Oct. 18.
- Tornberg, Isidor. (See Getches, R. M., and Tornberg.)
- Tornberg, Isidor, assignor to R. Hoe and Co., New York, N. Y. Intaglio-printing machine. No. 1,370,071; Mar. 1; vol. 284; p. 59.
- Tornberg, Isidor, assignor to R. Hoe and Co., New York, N. Y. Offset-preventing mechanism for printing machines. No. 1,374,253; Apr. 12; v. 285; p. 210.
- Torno, Karl L., Berkeley, assignor of one-half to F. R. Sweasey, San Francisco, Calif. Producing decorative articles. No. 1,366,754; Jan. 25; v. 282; p. 654.
- Tornsjö, Gustaf E., St. Paul, assignor to Rao Manufacturing Company, Minneapolis, Minn. Film-hanging device. No. 1,394,697; Oct. 25.
- Toronto Type Foundry Company. (See Palmer, Ernest E., assignor.)
- Torossian, Gregory, Cleveland, Ohio, assignor of one-third to N. C. Cotabish and one-third to W. J. Higgins. Carbon-remover. No. 1,386,385; Aug. 2; v. 289; p. 83.
- Torre, Mathew. (See Rebelski, A., and Torre.)
- Torrence, Charles A., Winnipeg, Manitoba, Canada. Grain-cleaner. No. 1,373,685; Apr. 5; v. 285; p. 59.
- Torrence, Charles A., Regina, Saskatchewan, Canada. Vacuum grain-cleaner. No. 1,381,601; June 14; v. 287; p. 294.
- Torrence, Charles A., Winnipeg, Manitoba, Canada. Grain-cleaner. No. 1,383,260; June 28; v. 287; p. 722.
- Torres, Clemente, assignor of one-half to J. E. Mavus, Ridgefield Park, N. J. Heating device for carbureters. No. 1,367,789; Feb. 8; v. 283; p. 236.
- Torrey, Anthony P., North Glenside, Pa. Air-conditioning process and apparatus. No. 1,374,689; Apr. 12; v. 285; p. 295.
- Torrey, Carl V., Marblehead, Mass. Game device. No. 1,364,657; Jan. 4; v. 282; p. 117.
- Torrey, Charles L., assignor of seventy per cent. to C. A. Sawyer and twenty-five per cent. to W. T. Alexander, San Jose, Calif. Burner-head. No. 1,389,107; Aug. 30; v. 289; p. 858.
- Torrey, F. L., & Company. (See Torrey, John C., assignor.)
- Torrey, John C., assignor to F. L. Torrey & Company, Attleboro, Mass. Buckle. No. 1,366,104; Jan. 18; v. 282; p. 482.
- Torrillas, Guy, San Diego, Calif. Vehicle direction-indicator. No. 1,376,176; Apr. 26; v. 285; p. 673.
- Torrington Company, The. (See Dayton, William H., assignor.)
- Torrington Company, The. (See Graham, J. H., and Foley, assignors.)
- Torrington Company, The. (See Graham, J. H., and Murdie, assignors.)
- Torrington Company, The. (See Graham, James H., assignor.) (Reissue.)
- Torrington Company, The. (See Weston, F. E., and Graham, assignors.)
- Torriss, Samuel S., Philadelphia, Pa. Cathode for audions. No. 1,368,584; Feb. 15; v. 283; p. 438.
- Tors, John, Campbell River, British Columbia, Canada. Spring-board. No. 1,384,580; July 12; v. 288; p. 324.



## Alphabetical list of patentees—Continued.

- Tors, John, Campbell River, assignor of one-half to I. Gustafson, Vancouver, British Columbia, Canada. Logging-hook. No. 1,371,452; Mar. 15; v. 284; p. 433.
- Tors, John, assignor of one-half to I. Gustafson, Vancouver, British Columbia, Canada. Saw-handle. No. 1,400,249; Dec. 13.
- Tortorice, Antonio, Litcher, La. Coffee-cooking device. No. 1,382,574; June 21; v. 287; p. 538.
- Toscan, James E., Jamestown, N. Y. Gas-stove. No. 1,395,312; Nov. 1.
- Toscas, John D., Chicago, Ill. Lock-nut. No. 1,379,371; May 24; v. 286; p. 753.
- Tossizza, Constantin, Paris, France. Apparatus for severing cables. No. 1,397,911; Nov. 22.
- Tosso, Manuel P., Jr., New Orleans, La. Baseball game-board. No. 1,380,440; June 7; v. 287; p. 22.
- Touceda, Enrique A., Albany, N. Y. Centrifugal machine. No. 1,401,291; Dec. 27.
- Touchstone, Benjamin F., T. E. Gardner, J. A. Bangle, D. M. Sullivan, and J. E. Hardin, Greensboro, N. C. Dyeing and apparatus therefor. No. 1,399,230; Dec. 6.
- Tousey, Sinclair, Brooklyn, N. Y. X-ray-film carrier. No. 1,370,858; Mar. 8; v. 284; p. 255.
- Tousey, Sinclair, Westhampton Beach, N. Y. X-ray apparatus. No. 1,372,110; Mar. 22; v. 284; p. 615.
- Tousey, Sinclair, Westhampton Beach, N. Y. Cell-diaphragm for X-ray apparatus. No. 1,381,521; June 14; v. 287; p. 279.
- Toutges, Jasper, Holland, Minn. Extensible car-step. No. 1,388,493; Aug. 23; v. 289; p. 683.
- Tow, Isidore, New York, N. Y. Detachable keyboard for transposing music on pianos. No. 1,392,883; Oct. 4.
- Tow, John Z., assignor of one-third to M. Patterson and one-third to S. R. Murphy, Springfield, Tenn. Automatic stop for phonographs. No. 1,401,658; Dec. 27.
- Towar, George S., Detroit, Mich. Dynamometer. No. 1,382,694; June 28; v. 287; p. 615.
- Towe, Edward, assignor to F. J. Weider, Rochester, N. Y. Percolator. No. 1,374,166; Apr. 5; v. 285; p. 152.
- Tower, De Witt, Spencer, Mass. Jar-opener. No. 1,364,221; Jan. 4; v. 282; p. 34.
- Tower, George, Jr. (See Cowan, Richard S., assignor.)
- Tower, Herschel E., assignor to The Baldwin Company, Cincinnati, Ohio. Music-roll gearing-shifter. No. 1,373,154; Mar. 29; v. 284; p. 861.
- Tower, Herschel E., assignor to The Baldwin Company, Cincinnati, Ohio. Mechanical musical instrument. No. 1,400,921; Dec. 20.
- Tower, Max L., Middleport, N. Y. Making arsenate of lead. No. 1,387,212; Aug. 9; v. 289; p. 319.
- Tower, Max L., and F. L. Begtrup, assignors to Niagara Sprayer Co., Middleport, N. Y. Making lead arsenate. No. 1,387,213; Aug. 9; v. 289; p. 319.
- Towers, Augustus R., Richmond, Va. Book-filler. No. 1,375,742; Apr. 26; v. 285; p. 591.
- Towers, Augustus R., Richmond, Va. Record and reference book. (Reissue.) No. 15,189; Sept. 6; v. 290; p. 140.
- Towle, Elmer E., Richmond, Ind., assignor to The American Seeding Machine Company, Springfield, Ohio. Truck for agricultural implements. No. 1,376,591; May 3; v. 286; p. 40.
- Towle, Elmer E., Richmond, Ind., assignor to The American Seeding Machine Company, Springfield, Ohio. Power mechanism for operating ground-breaking devices. No. 1,378,432; May 17; v. 286; p. 501.
- Towle, George M., Middletown, R. I. Sanding device. No. 1,387,815; Aug. 16; v. 289; p. 492.
- Towle, James M., West Somerville, assignor of one-half to L. I. Beckwith, Boston, Mass. Hose-coupling. No. 1,383,583; July 5; v. 288; p. 67.
- Towle, James M., West Somerville, assignor of one-half to L. I. Beckwith, Boston, Mass. Distributer-head. No. 1,394,051; Oct. 18.
- Towle, Nelson L. (See Speck, William F., assignor.)
- Towle, William J., St. Paul, Minn. Liquid-containing can. No. 1,399,168; Dec. 6.
- Towne, Robert S., New York, N. Y., and F. B. Flinn, Orange, N. J., assignors, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Process of and apparatus for separating ore materials from each other. No. 1,367,332; Feb. 1; v. 283; p. 90.
- Towne, Robert S., New York, N. Y., and F. B. Flinn, Orange, N. J., assignors, by mesne assignments, to Pneumatic Process Flotation Company, New York, N. Y. Process of and apparatus for separating ore materials from each other. No. 1,378,920; May 24; v. 286; p. 668.
- Towner, Arthur D., Whitley Bay, assignor of one-half to Petters Limited, Yeovil, England. Pivotal joint of piano-actions. No. 1,365,209; Jan. 11; v. 282; p. 268.
- Towner, Heber F., Santa Ana, Calif. Vehicle construction. No. 1,397,747; Nov. 22.
- Towner, Heber F., Santa Ana, Calif. Depth-regulating draft device for ground-working tools. No. 1,397,748; Nov. 22.
- Townley, Grace, Blacksburg, Va., now by marriage G. T. Miller. Kitchen-cabinet. No. 1,369,577; Feb. 22; v. 283; p. 670.
- Townley, Richard B., assignor of two-fifths to H. F. Graber, Cincinnati, Ohio. Coal-furnace lighter. No. 1,393,469; Oct. 11.
- Townley, William R., and P. H. Leahy, deceased, Canandaigua, N. Y., D. A. Leahy, administratrix. Combination-lock. No. 1,370,859; Mar. 8; v. 284; p. 255.
- Townsend, Abraham L., Iola, Kans. Animal-trap. No. 1,382,030; June 21; v. 287; p. 435.
- Townsend, Charles L. (See Runne, Henry G., assignor.)
- Townsend, Clark D. (See Murray, William B., assignor.)
- Townsend, Ernest F., assignor to L. A. Townsend, Los Angeles, Calif. Draft-rigging for motor-vehicles. No. 1,377,609; May 10; v. 286; p. 291.
- Townsend, Floyd E., Berkeley, assignor of one-half to E. G. Palmer, San Francisco, Calif. Endless bucket elevator. No. 1,383,248; June 28; v. 287; p. 720.
- Townsend, Frank P., Milwaukee, Wis. Tensioning mechanism. No. 1,386,813; Aug. 9; v. 289; p. 240.
- Townsend, Frederick B., Hinsdale, Ill., assignor to W. H. Miner, Chazy, N. Y. Drawbar-centering device. No. 1,372,728; Mar. 29; v. 284; p. 775.
- Townsend, Frederick E., New York, assignor of one-half to D. Sprague, Mount Vernon, N. Y., and one-half to H. C. Karison, Hasbrouck Heights, N. J. Winding-implement. No. 1,397,022; Nov. 15.
- Townsend, Frederick H., Roxbury, Mass. Invalid-footrest. No. 1,365,750; Jan. 18; v. 282; p. 412.
- Townsend, George R., Winchester, Mass., assignor, by mesne assignments, to Gillespie Eden Corporation. Clothes-wringer. No. 1,401,210; Dec. 27.
- Townsend, Harry E., Brooklyn, N. Y. Closure. No. 1,393,925; Oct. 18.
- Townsend, Harry E., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Friction side seal. No. 1,365,295; Jan. 11; v. 282; p. 285.
- Townsend, James H., Gloversville, N. Y. Spark-plug. No. 1,399,827; Dec. 13.
- Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Sand-throwing machine. No. 1,386,212; Aug. 2; v. 289; p. 50.
- Townsend, John S. E., Oxford, England. Variometer. No. 1,376,592; May 3; v. 286; p. 41.
- Townsend, Lucretia A. (See Townsend, Ernest F., assignor.)
- Townsend, Robert V., Riverside, R. I. Milk-bottle rack. No. 1,372,729; Mar. 29; v. 284; p. 775.
- Townsend, W. H. (See Mosher, J. A., and Townsend.)
- Townsend, William S., Washington, D. C. Dispensing-tank. No. 1,373,686; Apr. 5; v. 285; p. 59.
- Townsend, William S., Washington, D. C. Portable liquid-dispenser. No. 1,390,476; Sept. 13; v. 290; p. 275.
- Townshend, Aaron R., Jr., Washington, D. C. Direction-indicator. No. 1,393,854.
- Towson, Morris S. (See Cochran, C. E., and Towson.)
- Towson, Morris S., and C. E. Cochran, assignors to The Ellwell-Parker Electric Company, Cleveland, Ohio. Industrial truck. No. 1,364,416; Jan. 4; v. 282; p. 72.
- Towson, Richard M., Stafford, Va. Recoil neutralizer and muffler. No. 1,390,658; Sept. 13; v. 290; p. 313.
- Toy, James J., Washington, D. C. Identification-tag. No. 1,370,491; May 24; v. 286; p. 775.
- Toyama, Takeo, New York, N. Y. Shoe-fastener. No. 1,360,064; Feb. 22; v. 283; p. 570.
- Toyama, Takeo, New York, N. Y. Shoe-fastener. No. 1,371,334; Mar. 15; v. 284; p. 409.
- Tozer, Archibald E., Erie, Pa., assignor, by mesne assignments, to Reed Manufacturing Company. Nailing-machine. No. 1,380,690; June 7; v. 287; p. 69.
- Trabue, William, assignor of one-half to D. C. Brenner, Louisville, Ky. Automobile attachment. No. 1,386,913; Aug. 9; v. 289; p. 261.
- Trace, Meyer, *et al.* (See Lazarus, M., and Davies, assignors.)
- Trace, Russell A., assignor to Buckeye Iron and Brass Works, Dayton, Ohio. Machine for forming oil cases. No. 1,399,169; Dec. 6.
- Tracey, Daniel F., assignor to The Loping Horse & Novelty Co., Huntington, W. Va. Hobbyhorse. No. 1,396,475; Nov. 8.
- Trachsel, Louis E. (See Holloway, H. A., and Trachsel.)
- Tracy, Atlee H. (See Welch, W. J., and Tracy.)
- Traction Engine Company. (See Heinze, John O., assignor.)
- Tracy, Atlee H. (See Welch, W. J., and Tracy.)
- Tracy, Caroline E., Detroit, Mich. Curtain-stretcher. No. 1,388,078; Aug. 16; v. 289; p. 543.
- Tracy, David D., Jackson, Mich. Sectional conduit. No. 1,396,301; Nov. 8.
- Tracy, Ernest B., Seattle, Wash. Can-cutter. No. 1,389,019; Aug. 30; v. 289; p. 842.
- Tracy, Hayden H., San Francisco, Calif. Steam-separator. No. 1,381,767; June 14; v. 287; p. 326.
- Tracy, James J. (See Baker, Walter C., assignor.)
- Tracy, James J., Cleveland, Ohio. Windshield-cleaner. No. 1,370,168; Mar. 1; vol. 284; p. 78.
- Tracy, James J., and L. H. Morse, Cleveland, Ohio; said Morse assignor to said Tracy. Carbureter. No. 1,391,025; Sept. 20; v. 290; p. 449.
- Tracy, James W., Smithland, Ky. Wrench. No. 1,388,131; Aug. 16; v. 289; p. 553.
- Tracy, John E., Orlando, Fla. Container for cedar shavings. No. 1,368,861; Feb. 15; v. 283; p. 492.



*Alphabetical list of patentees—Continued.*

- Tracy, Mearl V., Rolfe, Iowa, assignor of one-half to B. Kern, Rapid City, S. D. Insulating means for tanks. No. 1,371,949; Mar. 15; v. 284; p. 528.
- Tracy, Mearl V., Waterloo, Iowa, assignor of one-half to B. Kern, Rapid City, S. D. Sectional individual hoghouse. No. 1,371,950; Mar. 15; v. 284; p. 528.
- Traeger, Alfred H., Kensington Gardens, South Australia, Australia. Combined variable-speed, clutch, and free-wheel device for motorcycles. No. 1,390,065; Sept. 6; v. 290; p. 102.
- Trafion, Edwin B., Leavenworth, Kans. Motor-vehicle wheel. No. 1,386,449; Aug. 2; v. 289; p. 95.
- Trailmobile Company, The. (See Morrison, James, assignor.)
- Trainer, Thomas E., San Antonio, Tex. Valve. No. 1,388,673; Aug. 23; v. 289; p. 717.
- Trainor, Devaney C. E., assignor of one-third to J. A. Mackerrow and one-third to H. Claydon, Toronto, Ontario, Canada. Automobile control mechanism. No. 1,386,213; Aug. 2; v. 289; p. 50.
- Trainor, William P., Bristol, Va. Stove-top. No. 1,381,369; June 14; v. 287; p. 251.
- Traitel Marble Co. (See Calkins, Seward H., assignor.)
- Tramer, Arnold H., Elizabeth, N. J., assignor of one-half to J. Baur, New York, N. Y. Separable fastener. No. 1,381,257; June 14; v. 287; p. 230.
- Trammell, Earl M., and W. C. Carothers, Waco, Tex. Ironing-board. No. 1,384,361; July 12; v. 288; p. 278.
- Trane, Reuben N., La Crosse, Wis. Thermostatic valve. No. 1,371,060; Mar. 8; v. 284; p. 293.
- Trane, Reuben N., La Crosse, Wis. Thermostatic trap. No. 1,395,167; Oct. 25.
- Transcontinental Oil Company. (See Kerr, Arthur N., assignor.)
- Tranthon, Clyde A., Kansas City, Mo. Fire-extinguisher. No. 1,365,356; Jan. 11; v. 282; p. 296.
- Tranzen, Eric T., et al. (See Evans, Fred, assignor.)
- Traphagan, Frank M., Waterloo, Iowa; I. W. Blough administratrix of said Frank M. Traphagan, deceased, assignor to M. Jackson and A. Stevens. Bordering for roofing. No. 1,377,610; May 10; v. 286; p. 291.
- Traphagen, Harry R. (See Waterman, L. E., Traphagen, and Waterman.)
- Traphagen, Harry R., assignor to Emerson-Brantingham Company, Rockford, Ill. Power-lift plow. No. 1,396,793; Nov. 15.
- Traphagen, Maxwell E., Brooklyn, N. Y. Shoe-lace. No. 1,373,687; Apr. 5; v. 285; p. 59.
- Trask, F. G., Ross, N. D. Apparatus for supplying air to the exterior of hulls of ships. No. 1,398,246; Nov. 29.
- Traube, Abraham, Brooklyn, N. Y. Door-operating mechanism. No. 1,364,595; Jan. 4; v. 282; p. 105.
- Traube, Abraham, Brooklyn, N. Y. Process of and apparatus for supplying soap. No. 1,385,735; July 26; v. 288; p. 718.
- Traube, Lionel. (See Fuld, S. Traube, and Wolff.)
- Traudt, William F., Buffalo, N. Y., assignor to Taber Pump Company. Rotary pump and similar apparatus. No. 1,366,138; Jan. 18; v. 282; p. 488.
- Traudt, William F., Buffalo, N. Y., assignor to Taber Pump Company. Rotary pump. No. 1,366,139; Jan. 18; v. 282; p. 488.
- Traum, John, Coshocton, Ohio. Collapsible core. No. 1,368,862; Feb. 15; v. 283; p. 492.
- Traum, John, Coshocton, Ohio. Vulcanizing equipment for vulcanizing casings for pneumatic-tire tubes. No. 1,375,542; Apr. 19; v. 285; p. 521.
- Traum, John, Coshocton, Ohio. Vulcanizing device. No. 1,384,362; July 12; v. 288; p. 278.
- Traut & Hine Mfg. Company, The. (See Humphrey, E. N., and Wardner, assignors.)
- Traut & Hine Mfg. Company, The. (See Walker, Thomas D., assignor.)
- Traut & Hine Mfg. Co., The. (See Wardner, Oel E., assignor.)
- Trautman, Burl N., Fort Collins, Colo. Riddle for seed-extracting machines. No. 1,378,736; May 17; v. 286; p. 560.
- Trautman, Burl N., Fort Collins, Colo. Crusher for seed-extracting machines. No. 1,378,737; May 17; v. 286; p. 560.
- Trautman, Ira, New York, N. Y. Automobile-tire. No. 1,381,602; June 14; v. 287; p. 294.
- Trautman, Lewis M., and Robert G. Smith, Colorado Springs, Colo. Pipe-fitting. No. 1,369,991; Mar. 1; vol. 284; p. 45.
- Trautner, Nicholas W., St. Paul, Minn. Grease-cup. No. 1,379,230; May 24; v. 286; p. 726.
- Travelight Mfg. Co. (See Dwyer, Frank P., assignor.)
- Travell, Warren, New York, N. Y. Rope-grip. No. 1,397,259; Nov. 15.
- Traver, Henry C. (See Gosney, Robert E., assignor.)
- Traver, Homer J., Kerhonkson, N. Y. Saw-guard. No. 1,370,072; Mar. 1; vol. 284; p. 60.
- Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Battery-charging system. No. 1,374,690; Apr. 12; v. 285; p. 295.
- Travers, Lewis C., assignor of one-half to E. H. Mahoney Chair Company, Gardner, and one-half to Heywood-Wakefield Company, Wakefield, Mass. Folding chair. No. 1,396,794; Nov. 15.
- Traves, Webster F., Cleveland, Ohio. Rim for vehicle-wheels. No. 1,401,377; Dec. 27.
- Travis, Clarence C. (See Antoine, A. D., and Travis.)
- Travis, Don C., assignor to Simmons Company, Kenosha, Wis. Mattress-frame. No. 1,389,918; Sept. 6; v. 290; p. 73.
- Travis, Don C., assignor to Simmons Company, Kenosha, Wis. Bedstead. No. 1,396,476; Nov. 8.
- Traynor, Arthur, Koshkonong, Wis. Artificial feeding device. No. 1,399,828; Dec. 13.
- Treadwell Engineering Company. (See Mikaelson, Erik W., assignor.)
- Treadwell, M. H., Company. (See Astrom, Carl P., assignor.)
- Treadwell, M. H., Company. (See Steven, Frank R., assignor.)
- Trebitsch, Harry S., New York, N. Y. Stencil-printing apparatus. No. 1,398,980; Dec. 6.
- Trobojevich, Nikola. (See Olson, C. G., and Trobojevich.)
- Trefs, George. (See Shaffer, C. G., and Trefs.)
- Treganowan, Thos. (See Grazer, Charles J., assignor.)
- Tregillus, Harold G., Barrington, Ill. Device for bending plates. No. 1,383,882; July 5; v. 288; p. 129.
- Treiber, Theodore R., assignor, by mesne assignments, to J. C. McFarland Company, Chicago, Ill. Pocket-billiard table. No. 1,367,440; Feb. 1; v. 283; p. 111.
- Treiber, Theodore R., assignor, by mesne assignments, to J. C. McFarland Company, Chicago, Ill. Pocket-billiard table. No. 1,367,441; Feb. 1; v. 283; p. 111.
- Trelawny, Charles H. (See Ferrail, J. J., Sundheim, and Trelawny.)
- Trémaux, André. (See Jourdon, L., and Trémaux.)
- Tremblay, Patrick F. (See Curran, William, assignor.)
- Trembley, Lou J., assignor of one-half to W. Cohagen and one-half to W. Wycarver, Jr., Denver, Colo. Piston-ring. No. 1,385,508; July 26; v. 288; p. 672.
- Tremblay, Ulysse N., South Lawrence, assignor to Draper Corporation, Hopedale, Mass. Temple-thread part for looms. No. 1,394,652; Oct. 25.
- Trembour, Max R., Troy, assignor to Ludlum Electric Furnace Corporation, Watervliet, N. Y. Electric furnace. No. 1,369,578; Feb. 22; v. 283; p. 670.
- Tremolada, Guglielmo, Detroit, Mich., assignor of one-half to M. Baroni, Winnipeg, Manitoba, Canada. Reinforced spring. No. 1,392,540; Oct. 4.
- Tremont Products Company. (See Baker, Malcolm H., assignor.)
- Tremont Products Company. (See Smith, Raymond D., assignor.) (Reissue.)
- Trener, Joseph M., New York, N. Y., and C. S. Benjamin, East Orange, N. J., assignors to A. J. Doremus, West New Brighton, N. Y., and H. G. Turner, Paterson, N. J. Purification of hydrocarbons. No. 1,392,370; Oct. 4.
- Trenkamp, Herman J. (See Kneier, Joseph, assignor.)
- Trenkamp, Herman J. (See McWilliams, Thomas J., assignor.)
- Trenor, Albert D., New York, N. Y., assignor to J. H. Hammond, Jr., Gloucester, Mass. System for the control of dirigible devices from a distance. No. 1,374,124; Apr. 5; v. 285; p. 144.
- Trenor, Albert D., New York, N. Y., assignor to J. H. Hammond, Jr., Gloucester, Mass. Automatic directing system for guide-lights. No. 1,377,294; May 10; v. 286; p. 231.
- Trent, Lamartine C., Los Angeles, Calif. Continuous method for the purification of sewage. No. 1,394,698; Oct. 25.
- Trenton Potteries Company. (See Hinsdale, W. E., and Lansing, assignors.)
- Trenton Potteries Company. (See Hinsdale, Winfield E., assignor.)
- Treo Company. (See Schloss, Meyer W., assignor.) (Reissue.)
- Trepanier, William, Duluth, Minn. Dumb-bell. No. 1,395,313; Nov. 1.
- Tresidder, Tolmie J., Upper Norwood, London, England. Device for decapping armor-piercing shells. No. 1,385,897; July 26; v. 288; p. 750.
- Tresnak, Stephen, assignor to S. Himmel, Baltimore, Md. Display-rack. No. 1,365,751; Jan. 18; v. 282; p. 412.
- Tressler, Donald K., Pittsburgh, Pa. Manufacture of liquid glue. No. 1,394,654; Oct. 25.
- Tressler, Donald K., assignor to W. A. Hamor, Pittsburgh, Pa. Manufacture of liquid glue. No. 1,394,653; Oct. 25.
- Tretthewey, Laura C., Stratford, Ontario, Canada. Cake-cutter. No. 1,399,449; Dec. 6.
- Tretter, Anthony M., Covington, Ky. High chair. No. 1,401,834; Dec. 27.
- Trevillian, Guy R. (See Korner, V. B., and Trevillian.)
- Trevillian, Guy R., Cicero, Ill. Collapsible or folding go-cart. No. 1,373,034; Mar. 29; v. 284; p. 837.
- Trew, Arthur S., Portland, Oreg. Card-distributing machine. No. 1,375,241; Apr. 19; v. 285; p. 463.
- Trew, George B., Shreveport, La., assignor of one-half to S. A. Guiberson, Jr., Los Angeles, Calif. Pipe-wrench. No. 1,388,079; Aug. 16; v. 289; p. 543.
- Trexler, Robert M., St. Louis, Mo. Angle-iron seat. No. 1,364,821; Jan. 4; v. 282; p. 149.
- Triall, Leila A., Chicago, Ill. Shower-bath brush. No. 1,373,369; Mar. 29; v. 284; p. 903.
- Triall, Leila A., Los Angeles, Calif. Portable shower-bath apparatus. No. 1,398,208; Nov. 22.
- Trick, Walter H. (See Holmes, F. D., and Trick.)
- Trigg, Charles W. (See Pratt, D. S., and Trigg.)



*Alphabetical list of patentees—Continued.*

- Trigg, Charles W., Pittsburgh, Pa., assignor to J. E. King, Detroit, Mich. Recovery of aromatic and flavoring constituents. No. 1,367,724; Feb. 8; v. 283; p. 224.
- Trigg, Charles W., Pittsburgh, Pa., assignor to J. E. King, Detroit, Mich. Recovery of escaping aromas of food, &c. No. 1,367,725; Feb. 8; v. 283; p. 224.
- Trigg, Charles W., Pittsburgh, Pa., assignor to J. E. King, Detroit, Mich. Recovery of aromas, &c., escaping during comminution of coffee-beans. No. 1,367,726; Feb. 8; v. 283; p. 225.
- Trigwell, Alfred J., San Jose, Calif. Storage battery. No. 1,367,287; Feb. 1; v. 283; p. 80.
- Trigwell, Alfred J., San Jose, Calif. Battery-plate. No. 1,367,288; Feb. 1; v. 283; p. 81.
- Trilsch, Oscar, Co. (See Trilsch, Oscar W., assignor.)
- Trilsch, Oscar W., assignor to Oscar Trilsch Co., White-stone, N. Y. Covering paper or wooden boxes. No. 1,386,384; Aug. 2; v. 289; p. 82.
- Trimble, Fred M., Humboldt, Nebr. Chain fastener and tightener. No. 1,399,589; Dec. 6.
- Trimm, Edward, Buffalo, N. Y. Signaling device for vehicles. No. 1,366,041; Jan. 18; v. 282; p. 470.
- Trimm, Leslie E., Brooklyn, N. Y. Automobile-wheel-locking device. No. 1,379,423; May 24; v. 286; p. 762.
- Trimmer, Jesse, Traverse City, Mich. Tractor. No. 1,374,784; Apr. 12; v. 285; p. 313.
- Trinca, Frederick, West New York, N. J., assignor of one half to A. C. Velo, New York, N. Y. Automobile-body construction. No. 1,365,211; Jan. 11; v. 282; p. 268.
- Trinks, Franz, Brunswick, Germany. Calculating-machine. No. 1,390,180; Sept. 6; v. 290; p. 125.
- Trinks, Franz, Brunswick, Germany. Paper-strip feed for adding-machines. No. 1,399,450; Dec. 6.
- Trinks, Franz, Brunswick, Germany. Calculating-machine. No. 1,400,105; Dec. 13.
- Trinks, Franz, Brunswick, Germany. Adding-machine. No. 1,400,106; Dec. 13.
- Triple Metals Corporation, The. (See Steen, John I., assignor.)
- Triplex Garment Presser. (See Melzer, Richard H., assignor.)
- Trippi, Joseph R. (See McVittie, Henry, assignor.)
- Tripp, Charles A., assignor to Holcomb & Hoke Manufacturing Company, Indianapolis, Ind. Liquid-dispensing machine. No. 1,366,221; Jan. 18; v. 282; p. 504.
- Tripp, Edward N., *et al.* (See Turner, Alan L., assignor.)
- Tripp, Henry C., Auburn, N. Y. Windshield-cleaner. No. 1,394,052; Oct. 18.
- Tripp, Henry C., Auburn, N. Y. Windshield-cleaner. No. 1,394,053; Oct. 18.
- Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. Motor control. No. 1,382,872; June 28; v. 287; p. 649.
- Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. Disruption of electric arcs. No. 1,398,981; Dec. 6.
- Tritle, John F., Schenectady, N. Y., assignor to General Electric Company. Circuit-interrupter. No. 1,398,982; Dec. 6.
- Troegner, Roland S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Building tires. No. 1,374,408; Apr. 12; v. 285; p. 240.
- Troegner, Roland S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Selvage-trimmer. No. 1,379,597; May 24; v. 286; p. 795.
- Troegner, Roland S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-making machine. No. 1,397,154; Nov. 15.
- Trohon, William G., Danvers, assignor to Klip-Lox Box Fastener Company, Incorporated, Beverly, Mass. Fastening device for boxes. No. 1,366,611; Jan. 25; v. 282; p. 626.
- Trojan Powder Company. (See Brownstein, Jesse B., assignor.)
- Trojan Powder Company. (See Snelling, Walter O., assignor.)
- Trojan Powder Company. (See Waller, Charles E., assignor.)
- Trolle, Louis, assignor to E. W. Lawton, Racine, Wis. Footwear. No. 1,386,637; Aug. 9; v. 289; p. 204.
- Tromlitz, Oscar, Cleveland, Ohio. Vehicle-wheel. No. 1,389,798; Sept. 6; v. 290; p. 48.
- Tromm, Morris M., New Point, Ind. Roofing-tile. No. 1,370,716; Mar. 8; v. 284; p. 228.
- Tromp, Felix J., Pretoria, Transvaal, South Africa. Manufacture of phosphatic fertilizer. No. 1,372,051; Mar. 22; v. 284; p. 604.
- Trood, Samuel, Pittsburgh, Pa. Oven. No. 1,393,650; Oct. 11.
- Troolin, Erick, Braham, Minn. Form for concrete walls. No. 1,390,066; Sept. 6; v. 290; p. 103.
- Troop, George W., assignor to The North & Judd Manufacturing Company, New Britain, Conn. Buckle. No. 1,374,691; Apr. 12; v. 285; p. 295.
- Troph, Emil, Madrid, Nebr. Window-screen fastener. No. 1,376,235; Apr. 26; v. 285; p. 685.
- Trosch, Alfred, assignor to A. H. Ingle, Rochester, N. Y. Power rapid-traverse and feed motion for planers. No. 1,369,501; Feb. 22; v. 283; p. 654.
- Trosch, Alfred, assignor to A. H. Ingle, Rochester, N. Y. Feed-screw support for machine-tools. No. 1,389,399; Aug. 30; v. 289; p. 917.
- Trosien, Charles G., Pontiac, Mich. Gear-lock for automobiles. No. 1,366,299; Jan. 18; v. 282; p. 520.
- Trosien, Charles G., Pontiac, Mich. Gear-lock for automobiles. No. 1,366,300; Jan. 18; v. 282; p. 520.
- Trosien, Charles G., Pontiac, Mich. Automobile-lock. No. 1,397,564; Nov. 22.
- Trostel, Albert O., Milwaukee, Wis. Improving hair, wool, and furs. No. 1,371,951; Mar. 15; v. 284; p. 528.
- Trostel, Albert O., Milwaukee, Wis. Mineralizing hair, wool, and other animal fiber and the product so produced. No. 1,394,655; Oct. 25.
- Trotter, George F., Des Moines, Iowa. Carbureter for internal-combustion engines. No. 1,377,529; May 10; v. 286; p. 276.
- Trotter, George C., Chicago, Ill., assignor to Plymouth Phonograph Parts Co., Plymouth, Wis. Motor. No. 1,378,153; May 17; v. 286; p. 449.
- Trotter, James, Chicago, Ill. Automatically-adjustable exhaust-nozzle for locomotive-engines. No. 1,390,401; Sept. 13; v. 290; p. 260.
- Trotter, Walter F., Cincinnati, Ohio. Rotary hammer. No. 1,366,850; Jan. 25; v. 282; p. 673.
- Trottier, John E., New York, N. Y. Garbage-can. No. 1,397,260; Nov. 15.
- Trottier, René E., Paris, France. Crusher. No. 1,364,531; Jan. 4; v. 282; p. 94.
- Trottier, René E., Puteaux, France. Classifying and separation of solid bodies by combined action of orientation, deviation, and derivation. No. 1,400,389; Dec. 13.
- Trottier, René E., Puteaux, France. Apparatus for the classifying and separation of solid bodies by combined action of orientation, deviation, and derivation. No. 1,400,390; Dec. 13.
- Trouilhet, Leo, and G. Duveau, Lyon, France. Electric stove. No. 1,380,753; June 7; v. 287; p. 81.
- Trout, William H., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Band-mill. No. 1,374,967; Apr. 19; v. 285; p. 410.
- Troutman, Frank E., Butler, Pa. Mechanism for shifting plate-glass-grinding tables. No. 1,385,852; July 26; v. 288; p. 741.
- Trova, Oswald, assignor of one-half to King Bee Spark Plug Company, and one half to F. J. Reppenhagen and J. E. Curley, St. Louis, Mo. Spark-plug. No. 1,384,413; July 12; v. 288; p. 289.
- Trowbridge, Emory E., Kansas City, Kans. Drain-tile. No. 1,393,329; Oct. 11.
- Trowbridge, William S. (See Floyd, G. G., and Trowbridge.)
- Trowbridge, William S., assignor to American Steel Foundries, Chicago, Ill. Draft-arm. No. 1,373,780; Apr. 5; v. 285; p. 77.
- Trowbridge, William S., assignor to American Steel Foundries, Chicago, Ill. Truck-side-frame arrangement. No. 1,390,311; Sept. 13; v. 290; p. 243.
- Troxel, Harvey H., Ashland, Ohio. Resilient heel and tread insert. No. 1,399,328; Dec. 6.
- Troxel, Harvey H., Ashland, Ohio. Washing-machine. No. 1,399,451; Dec. 6.
- Troy Carriage Sun Shade Company, The. (See Dillingham, Frederick A., assignor.)
- Troy Laundry Machinery Co. (See Bartholomew, W., and Simon, assignors.)
- Troy Laundry Machinery Co. (See Grey, William S., assignor.)
- Troy Laundry Machinery Co. (See Hager, William R., assignor.)
- Troy Laundry Machinery Co. (See Malone, Ernest J., assignor.)
- Troy Laundry Machinery Company. (See Allen, Charles H., assignor.)
- Troy Laundry Machinery Company. (See Balzer, Fritz, assignor.)
- Troy Laundry Machinery Company. (See Bartholomew, William, assignor.)
- Troy, Matthew O., Pittsfield, Mass., assignor to General Electric Company. Electromagnetic apparatus. No. 1,365,568; Jan. 11; v. 282; p. 338.
- Troy, Matthew O., Pittsfield, Mass., assignor to General Electric Company. Electromagnetic apparatus. No. 1,365,569; Jan. 11; v. 282; p. 338.
- Troy Wagon Works Company, The. (See Eccard, John F., assignor.)
- Troy Wagon Works Company, The. (See Hudson, Warren R., assignor.)
- Troyer, Nelson, assignor to Seattle-Astoria Iron Works, Seattle, Wash. Can heading and sealing machine. No. 1,400,391; Dec. 13.
- Truax, Valhard T., Grants Pass, Oreg. Fireplace-tongs. No. 1,370,860; Mar. 8; v. 284; p. 255.
- Trube, Herbert L. (See Goodhue, J. G., and Trube.)
- Trubenbach, Conrad D., Mount Vernon, and D. B. Sanneman, Brooklyn, N. Y., assignors to Perey Manufacturing Company. Turnstile. No. 1,382,575; June 21; v. 287; p. 538.
- Trubenbach, Conrad D., Mount Vernon, and D. B. Sanneman, Brooklyn, N. Y., assignors to Perey Manufacturing Company. Turnstile. No. 1,385,971; July 26; v. 288; p. 764.
- Truberg, Henry, Astoria, N. Y. Metal-polish. No. 1,366,977; Feb. 1; v. 283; p. 19.
- Truby, Franklin J., assignor to Automatic Electric Company, Chicago, Ill. Automatic trunking system. (Re-issue.) No. 15,228; Nov. 15.



*Alphabetical list of patentees—Continued.*

- Truck Engineering Company, The. (See Le Force, Darrell E., assignor.)
- Truck, Tractor, and Manufacturing Company. (See Jacobs, I. M., and Cramer, assignors.)
- Truck, Tractor and Mfg. Company. (See Jacobs, Isidor M., assignor.)
- Trudel Automatic Train Connector Company, *et al.* (See Trudel, Joseph H., assignor.)
- Trudel, François X., Shawinigan Falls, Quebec, Canada. Grindstone-mounting. No. 1,386,743; Aug. 9; v. 289; p. 226.
- Trudel, Joseph H., assignor of one-half to A. D. Denis, Montreal, Quebec, Canada, and one-half to Trudel Automatic Train Connector Company, Montreal, Quebec, Canada. Train-line coupling. No. 1,369,579; Feb. 22; v. 283; p. 670.
- True, Charles H., Hammond, Ind., assignor to Locomotive Superheater Company, New York, N. Y. Radiator and similar structure. No. 1,368,770; Feb. 15; v. 283; p. 474.
- True, Charles H., Hammond, Ind., assignor to The Superheater Company, New York, N. Y. Double-tube return-bend. No. 1,373,465; Apr. 5; v. 285; p. 17.
- True, Charles H., Hammond, Ind., assignor to The Superheater Company, New York, N. Y. Return-bend. No. 1,384,581; July 12; v. 288; p. 324.
- True, Sylvester W., Hillyard, assignor of one-half to Washington Machinery and Supply Company, Spokane, Wash. Conveyor system. No. 1,369,502; Feb. 22; v. 283; p. 654.
- Trueman, Charles J., Baltimore, Md. Pipe-fitting. No. 1,389,608; Sept. 6; v. 290; p. 9.
- Trueman, Walter B., Mattoon, Ill. Gate. No. 1,374,785; Apr. 12; v. 285; p. 313.
- Truesdell, Hobart G., and M. H. Van Wormer, Suffield, Conn. Infant's table. No. 1,391,650; Sept. 20; v. 290; p. 576.
- Truesdell, Josiah M., Chicago, Ill. Heat-conservator. No. 1,367,333; Feb. 1; v. 283; p. 90.
- Truitt, James B. (See Hall, G. U., and Truitt.)
- Truitt, Joseph E., and E. Ackerman, Chicago, Ill. Self-cooled motor. No. 1,383,883; July 5; v. 288; p. 129.
- Trull, Lyman A., Williamsport, Pa., assignor to Lymcoming Rubber Company. Vulcanized boot and shoe. No. 1,374,480; Apr. 12; v. 285; p. 254.
- Trullench, Antonio N., Lucena, Philippine Islands. Tool. No. 1,375,984; Apr. 26; v. 285; p. 635.
- Truman, Alton A., Howard, S. D. Harrow. No. 1,380,441; June 7; v. 287; p. 22.
- Trumbich, Anthony, Chicago, Ill. Safety-razor-blade holder. No. 1,366,140; Jan. 18; v. 282; p. 488.
- Trumble, John T., assignor of one-half to W. L. Mack, Detroit, Mich. Fuel-supplying means for motor-vehicles. No. 1,380,442; June 7; v. 287; p. 22.
- Trumble, Milton J., Alhambra, Calif. Steam-boiler. No. 1,365,608; Jan. 11; v. 282; p. 345.
- Trumble, Milton J., Alhambra, Calif. Tractor. No. 1,371,453; Mar. 15; v. 284; p. 433.
- Trumbull, Annie S., Yakima, Wash. Hose-supporter. No. 1,397,992; Nov. 22.
- Trumbull Electric Manufacturing Co., The. (See Getchell, Benjamin E., assignor.)
- Trumbull Electric Manufacturing Company. (See Knudsen, Knud, assignor.)
- Trumbull Electric Mfg. Co., The. (See Getchell, Benjamin E., assignor.)
- Trumbull Electric Mfg. Co., The. (See Leppert, Henry E., assignor.)
- Trumbull Electric Mfg. Co., The. (See Ratcliffe, Roscoe, assignor.)
- Trump, Edward N., and F. Friedrichs, Syracuse, N. Y., assignors to Humphrey Gas Pump Company. Pump. No. 1,368,001; Feb. 8; v. 283; p. 276.
- Trump, Elno H., Barberton, Ohio. Tire-mold. No. 1,375,543; Apr. 19; v. 285; p. 521.
- Trumpour, Frederick J., Washington, D. C. Lock-washer. No. 1,368,201; Feb. 8; v. 283; p. 315.
- Trumpower, Andrew N., Sr., Hagerstown, Md. Combination railway-tie and rail-fastener. No. 1,377,942; May 10; v. 286; p. 357.
- Trundle, George T., Jr., Cleveland Heights, assignor to The American Multigraph Company, Cleveland, Ohio. Milling-machine. No. 1,401,378; Dec. 27.
- Truscott, Starr, Birmingham, Ohio. Bunkering-barge. No. 1,380,273; May 31; v. 286; p. 997.
- Truslow, Grover C., Draper, N. C. Mixer. No. 1,399,590; Dec. 6.
- Truslow, Lewis D. (See Thayer, H. G., and McLellan, assignors.)
- Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Loose-leaf binder. No. 1,369,309; Feb. 22; v. 283; p. 617.
- Trussell Manufacturing Company. (See Trussell, Clarence D., assignor.)
- Trusty, James F., and D. O. Davison, Kansas City, Mo.; said Davison assignor to said Trusty. Machine for making and laying pipe. No. 1,398,815; Nov. 29.
- Tryogle, George D., *et al.* (See Webb, Ernest E., assignor.)
- Tryhook, Thomas, Hamtramck, Mich. Combination sash balance and lock. No. 1,391,869; Sept. 27; v. 290; p. 693.
- Tryon, William A., Providence, R. I. Shackle. No. 1,367,760; Feb. 8; v. 283; p. 231.
- Tscheike, Fritz, Fuerth, Bavaria, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Paper material coated with leaf metal. No. 1,376,737; May 3; v. 286; p. 67.
- Tscherne, Alois, Rorschach, Switzerland. Machine for piling fabric. No. 1,390,253; Sept. 6; v. 290; p. 138.
- Tscherne, Alois, Rorschach, Switzerland. Machine for cutting embroidery. No. 1,390,254; Sept. 6; v. 290; p. 139.
- Tschudi, Aegidius, Riehen, near Basel, Switzerland. Process and apparatus for the manufacture of hydrobromic acid from bromin and hydrogen. No. 1,380,084; May 31; v. 286; p. 961.
- Tsenes, Spiro J., St. Louis, Mo. Crossing-gate. No. 1,388,674; Aug. 23; v. 289; p. 717.
- Tubbergen, Johannes H., Afton, Calif. Auto warning-signal. No. 1,395,461; Nov. 1.
- Tubbs, Anthony A., Hammond, Ind. Safety-match tray. No. 1,379,424; May 24; v. 286; p. 763.
- Tubbs, Watson E., Milwaukee, Wis. Antiskidding device. No. 1,383,261; June 28; v. 287; p. 723.
- Tubular Steel Automobile Wheel Mfg. Co. (See Minnick, Frederick L., assignor.)
- Tucker, Arthur W., Tulsa, Okla., assignor of one-half to J. P. Riche, Kansas City, Mo. Steam wall-paper remover. No. 1,391,350; Sept. 20; v. 290; p. 515.
- Tucker, Frederick D., *et al.*, trustees. (See Allen, James M., assignor.)
- Tucker, Frederick R., Lafayette, Ala. Head-board for graves. No. 1,372,575; Mar. 22; v. 284; p. 705.
- Tucker, George W., Pottsville, Pa. Insulated rail-joint for electric signal systems. No. 1,373,387; Mar. 29; v. 284; p. 907.
- Tucker, Henry D., Avenel, N. J. Child's sand-box for play purposes. No. 1,389,020; Aug. 30; v. 289; p. 842.
- Tucker, James C. (See Naylor, I., and Tucker.)
- Tucker, Joseph T., Match, Tenn. Safety stock device. No. 1,375,189; Apr. 19; v. 285; p. 454.
- Tucker, Louise B., York, Pa. Measuring and dispensing device. No. 1,395,168; Oct. 25.
- Tucker, Ralph H., Los Angeles, Calif. Air-lift. No. 1,365,210; Jan. 11; v. 282; p. 208.
- Tucker, Samuel A., New York, N. Y. Method of and apparatus for refining metals. No. 1,384,499; July 12; v. 288; p. 306.
- Tucker, Thaddeus C., Oakland, Calif. Salting nuts in the shell. No. 1,397,187; Nov. 15.
- Tucker, Thaddeus C., assignor to California Almond Growers Exchange, San Francisco, Calif. Advertising-display. No. 1,400,190; Dec. 13.
- Tucker, William, Fruitvale, Tex. Poultry-crate. No. 1,389,170; Aug. 30; v. 289; p. 871.
- Tudhope, Hugh R. (See La Fay, Arthur J., assignor.)
- Tudhope, Melville B. (See White, Robert, assignor.)
- Tueckmantel, Hugo, and W. A. Lotz, Newark, N. J., assignors to The R. Neumann Hardware Co. Bag-lock. No. 1,400,640; Dec. 20.
- Tufts, John L., Winchester, Mass. Dry-cement process and product. No. 1,386,914; Aug. 9; v. 289; p. 261.
- Tufts, John W., Milwaukee, and C. L. Peters, Marinette, Wis. Electric warmer. No. 1,376,842; May 3; v. 286; p. 88.
- Tufts, Leighton L., Middleton, Mass. Automobile-skid. No. 1,389,400; Aug. 30; v. 289; p. 917.
- Tufts, Robert B., Kirkwood, Ga. Installation of concrete footings for piles and the like. No. 1,396,542; Nov. 8.
- Tuhey, Carl. (See Nottingham, C. A., and Tuhey.)
- Tuite, Thomas P., New York, N. Y. Apparatus for making extracts. No. 1,365,068; Jan. 11; v. 282; p. 240.
- Tullar, Chester W., Detroit, Mich. Envelop. No. 1,369,503; Feb. 22; v. 283; p. 655.
- Tullis, John K., assignor to Fulcrum Tan Company, New York, N. Y. Tanning. No. 1,390,735; Sept. 13; v. 290; p. 238.
- Tüllman, Max, Kiel, assignor to Fried. Krupp Aktien-gesellschaft Germaniawerft, Kiel-Gaarden, Germany. Lubricating device for the shaft-bearings of rotary pumps. No. 1,372,576; Mar. 22; v. 284; p. 705.
- Tully, Hugh. (See Schmid, Gerald, and J. Brichacek, and Tully.)
- Tully, Richard W., Sierra Madre, Calif. Artificial hedge, lawn, and similar article. No. 1,386,450; Aug. 2; v. 289; p. 95.
- Tulsa Machine and Tool Company. (See Neilson, Robert E., assignor.)
- Tumarello, Gabriella, Benld, Ill. Coffee-pot. No. 1,381,678; June 14; v. 287; p. 309.
- Tumulla, Paul J., Chicago, Ill. Wrench. No. 1,371,952; Mar. 15; v. 284; p. 528.
- Tungsten Products Company, The. (See Bleeker, Warren F., assignor.)
- Tunison, Harold L., Upper Montclair, assignor to F. L. Dyer, Montclair, N. J. Automatic stop mechanism for talking-machines. No. 1,385,407; July 26; v. 288; p. 650.
- Tunnel & Sewer Machine Engineering Company, The. (See Campbell, Le Roy W., assignor.)
- Tunnell, Frederic H., Philadelphia, Pa. Process and apparatus for the extraction of glue, gelatin, and the like. No. 1,364,904; Jan. 11; v. 282; p. 209.
- Tunnell, Harry E., New York, N. Y. Liquid-projecting device. No. 1,397,023; Nov. 15.



## Alphabetical list of patentees—Continued.

- Tunstall, Harry, Fairhaven, assignor to Alsatian Machine Company, Boston, Mass. Detaching roll-motion for combing-machines. No. 1,394,054; Oct. 18.
- Tunstall, Walter E., assignor of one-half to B. C. Edwards, Gordonsville, Ky. Egg-tester. No. 1,373,035; Mar. 29; v. 24; p. 857.
- Tuohy, James D., Oak Park, Ill. Portable sectional conveyor. No. 1,380,691; June 7; v. 287; p. 69.
- Tupper, John A., Cambridge, Mass. Measuring device. No. 1,372,849; Mar. 29; v. 284; p. 799.
- Tupper, Johnson, River Rouge, Mich. Electric animal-trap. No. 1,388,782; Aug. 23; v. 289; p. 739.
- Tupper, Russell E., Cohasset, Mass. Curtain-light. (Reissue.) No. 15,173; Aug. 2; v. 289; p. 123.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Starting, generating and braking system. No. 1,365,130; Jan. 11; v. 282; p. 253.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Starting and generating system. No. 1,366,544; Jan. 25; v. 282; p. 612.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Dynamo-electric machine. No. 1,366,545; Jan. 25; v. 282; p. 613.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Dynamo-electric machine. No. 1,366,546; Jan. 25; v. 282; p. 613.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Lamp-voltage regulator. No. 1,367,844; Feb. 8; v. 283; p. 247.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Lamp-voltage regulator. No. 1,367,845; Feb. 8; v. 283; p. 248.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,374,041; Apr. 5; v. 285; p. 128.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,374,042; Apr. 5; v. 285; p. 128.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,374,043; Apr. 5; v. 285; p. 129.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Variable-speed constant-voltage generator. No. 1,382,257; June 21; v. 287; p. 477.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,389,326; Aug. 30; v. 289; p. 902.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,389,463; Aug. 30; v. 289; p. 929.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Lamp-voltage regulator. No. 1,393,855; Oct. 18.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Electric regulator. No. 1,395,779; Nov. 1.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,400,502; Dec. 13.
- Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. Dynamo-electric machine. No. 1,401,947; Dec. 27.
- Turbine Air Tool Company, The. (See Kraber, George L., assignor.)
- Turbine Auto Washer Company. (See Masser, Jesse R., assignor.)
- Turbo Rotary Engine Company. (See Carroll, John D., assignor.)
- Turck, Frederick M., East Orange, N. J. Printing-plate holder. No. 1,383,351; July 5; v. 288; p. 19.
- Turck, Joseph A. V., Wilmette, assignor to Felt & Tarrant Mfg. Co., Chicago, Ill. Calculating-machine. No. 1,371,953; Mar. 15; v. 284; p. 528.
- Turck, Joseph A. V., Wilmette, assignor to Felt & Tarrant Mfg. Co., Chicago, Ill. Calculating-machine. No. 1,371,954; Mar. 15; v. 284; p. 529.
- Turck, Joseph A. V., Wilmette, assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill. Calculating-machine. No. 1,391,220; Sept. 20; v. 290; p. 488.
- Turgeon, Edward, Minneapolis, Minn. Wire-coiling machine. No. 1,382,258; June 21; v. 287; p. 477.
- Turgeon, Joseph A., Providence, R. I. Tool-handle. No. 1,375,069; Apr. 19; v. 285; p. 431.
- Turja, John E. (See Jacobson, J. W., and Turja.)
- Türk Gesellschaft m. b. H. (See Priem, Friedrich P., assignor.)
- Türk Gesellschaft m. b. H. (See Türk, Gustav, assignor.)
- Türk, Gustav, Meiningen, assignor to the Firm Türk Gesellschaft m. b. H., Hamburg, Germany. Machine for producing rovings from fibrous materials. No. 1,371,582; Mar. 15; v. 284; p. 459.
- Türk, Gustav, Meiningen, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Machine for producing small strips of fibrous material. No. 1,395,751; Nov. 1.
- Turk, Joseph, Manufacturing Co., et al. (See Basile, Joseph, assignor.)
- Turley, George R. (See Woodward, Irving C., assignor.)
- Turley, Thomas B. (See Waggaman, W. H., and Turley.)
- Turnbull, Andrew, Santa Ana, Calif. Resilient wheel. No. 1,393,651; Oct. 11.
- Turnbull, David H., Mishawaka, Ind. Axle-gaging device. No. 1,396,477; Nov. 8.
- Turnbull, Robert. (See Petinot, N., and Turnbull.)
- Turnbull, William, assignor to The Holt Manufacturing Company, Stockton, Calif. Self-laying-track vehicle. No. 1,379,323; May 24; v. 286; p. 744.
- Turnbull, William, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Traction-engine control. No. 1,381,769; June 14; v. 287; p. 327.
- Turnbull, William, assignor to The Holt Manufacturing Company, Stockton, Calif. Traction-engine mechanism. No. 1,395,019; Oct. 25.
- Turnbull, William, and E. F. Norelius, Peoria, Ill., assignors to The Holt Manufacturing Company, Stockton, Calif. Anti-aircraft-gun mount. No. 1,395,020; Oct. 25.
- Turner, Alan L. O., Carson City, Nev., assignor of one-fourth to C. M. Hartr, Hartford, Conn., one-fourth to F. E. Skinner and one-fourth to E. N. Tripp, Carson City, Nev. Aeroplane. No. 1,388,620; Aug. 23; v. 289; p. 707.
- Turner, Albert. (See Norton, C. H., and Turner.)
- Turner, Alonzo O., et al. (See Cook, George R., assignor.)
- Turner, Charles W., assignor to Massillon-Cleveland-Akron Sign Company, Massillon, Ohio. Two-way sign-printing press. No. 1,401,570; Dec. 27.
- Turner, Douglas. (See Hosch, W. E., and Turner.)
- Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Fabric-measuring and cost-computing machine. No. 1,386,386; Aug. 2; v. 289; p. 83.
- Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Roller construction. No. 1,390,312; Sept. 13; v. 290; p. 243.
- Turner, Douglas, assignor to The Hosch Mechanisms Corporation, St. Louis, Mo. Leather-measuring machine. No. 1,390,313; Sept. 13; v. 290; p. 124.
- Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Measuring-machine attachment for cloth-measuring machines. No. 1,391,431; Sept. 20; v. 290; p. 532.
- Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Fabric-measuring and cost-computing machine. No. 1,392,723; Oct. 4.
- Turner, Edwin E., Spur, Tex. Cultivator attachment. No. 1,367,334; Feb. 1; v. 283; p. 90.
- Turner, Elbert F., Springfield, Mo. Medicine cabinet. No. 1,368,863; Feb. 15; v. 283; p. 492.
- Turner, Ella, Chicago, Ill. Hat-protector. No. 1,368,864; Feb. 15; v. 283; p. 492.
- Turner, Ernest, Urnston, near Manchester, England. Automatic gas and like regulator. No. 1,375,265; Apr. 19; v. 285; p. 468.
- Turner, Ernest J. (See Howard, B. H., and Turner.)
- Turner, Fred, and T. Burton, Chicago, Ill. Gas-generator. No. 1,365,570; Jan. 11; v. 282; p. 338.
- Turner, Frederic E., assignor to Kansas City Elevator Manufacturing Company, Kansas City, Mo. Tension-equalizing and shock-absorbing device. No. 1,380,125; May 31; v. 286; p. 969.
- Turner, Giles M., Milwaukee, Wis. Material-rack. No. 1,393,054; Oct. 11.
- Turner, Green, Fort Screven, Ga. Miner's lamp. No. 1,371,823; Mar. 15; v. 284; p. 504.
- Turner, Harry, Sr., Glenelg, South Australia, Australia. Hose and other clamp. No. 1,399,416; Dec. 6.
- Turner, Harry G., Chicago, Ill. Plate-holder for printing-presses. No. 1,369,909; Mar. 1; v. 284; p. 30.
- Turner, Harry G., Chicago, Ill. Card-feeding device for embossing-presses. No. 1,370,169; Mar. 1; v. 284; p. 78.
- Turner, Henry B., Suisun, Calif. Tread for tractor-wheels. No. 1,395,237; Oct. 25.
- Turner, Howard G., et al. (See Treneer, J. M., and Benjamin, assignors.)
- Turner, Hurley J., Emden, Mo. Jaw-clinch. No. 1,370,618; Mar. 8; v. 284; p. 209.
- Turner, James T., Atlanta, Ga. Machine for making ice-cream cones. No. 1,393,587; Oct. 11.
- Turner, John, Dorchester, Mass. Billiard-table. No. 1,369,992; Mar. 1; v. 284; p. 45.
- Turner, John C., Dayton, Ohio. Conversely-turning carousel. No. 1,377,641; May 10; v. 286; p. 297.
- Turner, John C., Dayton, Ohio. Toy. No. 1,382,812; June 28; v. 287; p. 637.
- Turner, Joseph, Manchester, England. Combing-machine of the Nasmith type for combing cotton or other textile fibers. No. 1,379,789; May 31; v. 286; p. 905.
- Turner, Joseph D., assignor of one-fourth to M. A. Shields and one-fourth to M. C. Giles, Huntsville, Ala. Fan for textile-mills. No. 1,392,029; Sept. 27; v. 290; p. 727.
- Turner, Julius A., New Marlboro, Mass. Belt-coupling. No. 1,391,285; Sept. 20; v. 290; p. 502.
- Turner, Louis N., et al. (See Procnier, F. R., assignor.)
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Picker-stick check and stop. No. 1,366,978; Feb. 1; v. 283; p. 19.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop-motion. No. 1,375,743; Apr. 26; v. 285; p. 591.
- Turner, Robert. (See Bowen, E. W., and Turner.)
- Turner, Russell J., assignor of one-half to C. A. Harpman, Youngstown, Ohio. Automatic cartridge-magazine. No. 1,368,375; Feb. 15; v. 283; p. 397.
- Turner, Russell J., assignor of one-half to C. T. Gaither, Youngstown, Ohio. Disk vehicle-wheel. No. 1,380,873; June 7; v. 287; p. 105.



- Turner & Seymour Manufacturing Company, The. (See Hills, Sidney C., assignor.)
- Turner, Stanley S., et al. (See Clark, Edward W., assignor.)
- Turner Tanning Machinery Company, The. (See Ramsdell, Lyndon O., assignor.)
- Turner Tanning Machinery Company, The. (See Seymour Jones, Alfred, assignor.)
- Turner, Thomas, assignor to Hardsocg Wonder Drill Company, Ottumwa, Iowa. Rock-drill. No. 1,389,539; Aug. 30; v. 289; p. 944.
- Turner, Thomas, J. E. Kessler, and W. L. Higgins, Huntington, W. Va. Vehicle-signal. No. 1,388,675; Aug. 23; v. 289; p. 718.
- Turner, Thomas R., Toronto, and J. A. Nesbitt, London, Ontario, Canada. Attachment for hydrocarbon-engines. No. 1,398,406; Nov. 29.
- Turner, Violet E., et al. (See Clark, Edward W., assignor.)
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic train-control device. No. 1,378,389; May 17; v. 286; p. 493.
- Turner, Walter V., deceased, Wilkinsburg, by The Westinghouse Air-Brake Co., assignee, Wilmerding, Pa. Regenerative brake device. (Reissue). No. 15,229; Nov. 15.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety device for regenerative brakes. No. 1,400,839; Dec. 20.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Regenerative brake device. No. 1,400,840; Dec. 20.
- Turner, Walter V., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Combined fluid-pressure and regenerative brake. No. 1,400,841; Dec. 20.
- Turner, William E. (See Haralson, G. C., and Turner.)
- Turney, Albert, Kansas City, Mo. Sash-lock. No. 1,396,478; Nov. 8.
- Turney, Eugene T., New York, N. Y. Inductance device. No. 1,372,850; Mar. 29; v. 284; p. 800.
- Turney, George W., Rome, N. Y. Radiator-tube and producing same. No. 1,395,618; Nov. 1.
- Turney, Harry L., and A. G. Labbé, Portland, Oreg. Locomotive. No. 1,371,712; Mar. 15; v. 284; p. 483.
- Turney, Paul W., Richmond, Va. Desiccated casein precipitate. No. 1,364,417; Jan. 4; v. 282; p. 72.
- Turnwald, Wolfgang, Syracuse, N. Y., assignor to Stumpf Una-Flow Engine Company. Auxiliary clearance-valve. No. 1,390,239; Sept. 6; v. 290; p. 136.
- Turretini, Fernand, Geneva, Switzerland. Instrument adapted to disclose the difference actually existing between pieces which should be of the same actual size. No. 1,400,331; Dec. 13.
- Tursky, Charles M., New York, N. Y. Air-compressor. No. 1,371,824; Mar. 15; v. 284; p. 504.
- Tuttle, Morton A., East Orange, N. J., assignor to W. S. Rockwell Company, New York, N. Y. Furnace with rotatable hearth. No. 1,385,480; July 26; v. 288; p. 666.
- Turton, Alfred, Brooklyn, N. Y. Reinforced sheathing. No. 1,374,254; Apr. 12; v. 285; p. 210.
- Tusis, Soter B., Chicago, Ill. Hair-waving device. No. 1,377,943; May 10; v. 286; p. 357.
- Tusis, Soter B., Chicago, Ill. Arch-support for the foot. No. 1,380,504; June 7; v. 287; p. 34.
- Tuska, Clarence D., Hartford, Conn. Condenser. No. 1,371,061; Mar. 8; v. 284; p. 293.
- Tuttle, Arthur L., Atlanta, Ga., assignor to Southern Agricultural Chemical Corporation, New York, N. Y. Manufacture of superphosphate. No. 1,398,816; Nov. 29.
- Tuttle, Clarence E., Readville, Mass. Artificial tooth. No. 1,384,282; July 12; v. 288; p. 261.
- Tuttle, Edson H., J. C. Miller, and T. C. Baldwin, Conneaut, Ohio. Steam-boiler-compound feeder. No. 1,392,862; Oct. 4.
- Tuttle, Frank P., Indianapolis, Ind., assignor to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio. Brushing or polishing apparatus. No. 1,391,221; Sept. 20; v. 290; p. 489.
- Tuttle, Grover G., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate-valve. No. 1,376,484; May 3; v. 286; p. 20.
- Tuttle, Henry A., Taunton, Mass. Reversing-gearing. No. 1,392,982; Oct. 11.
- Tuttle, Henry A., Taunton, Mass. Reversing-gearing. No. 1,392,983; Oct. 11.
- Tuttle, Henry A., Upton, Mass. Reversing-gearing. No. 1,392,984; Oct. 11.
- Tuttle, Henry A., Upton, Mass. Reversing-gearing. No. 1,392,985; Oct. 11.
- Tuttle, Henry A., Upton, Mass. Reversing-gearing. No. 1,392,986; Oct. 11.
- Tuttle, James N., Lynn, and J. W. Phelan, Medford, assignors to Kalmus, Constock & Westcott, Inc., Boston, Mass. Refining cacao-oil. No. 1,386,471; Aug. 2; v. 289; p. 99.
- Tuttle, John C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Manufacturing tires. No. 1,392,608; Oct. 4.
- Tuttle, Orley C., Old Forge, N. Y. Fish-bait. No. 1,395,533; Nov. 1.
- Tuttle, Roy X., Battle Creek, Mich. Therapeutic apparatus. No. 1,376,593; May 3; v. 286; p. 41.
- Tuttle, Roy X., Battle Creek, Mich. Administering therapeutic light treatments. No. 1,395,065; Oct. 25.
- Tuttle, Walter L., Providence, R. I., assignor to Frank Mossberg Company, Attleboro, Mass. Beam construction. No. 1,375,644; Apr. 19; v. 285; p. 540.
- Tuttle, William R., Rochester, N. Y., Dispensing-machine. No. 1,393,588; Oct. 11.
- Tuttle, William R., Rochester, N. Y. Dispensing-machine. No. 1,393,589; Oct. 11.
- Tvedt, Thomas T., City Island, N. Y. Adjustable tiller. No. 1,395,534; Nov. 1.
- Twardowsky, John, Chicago, Ill., assignor to Central Scientific Company. Vacuum-pump. No. 1,385,101; July 19; v. 288; p. 573.
- Twarogowski, Alexander, and S. Klosinski, Detroit, Mich. Rotary heel. No. 1,377,642; May 10; v. 286; p. 297.
- Tweedie, Charles, Jefferson City, Mo. Boot-top. No. 1,368,771; Feb. 15; v. 283; p. 474.
- Tweel, Abraham. (See Hines, Robert E., assignor.)
- Tweit, John A., Appleton, Minn. Spark-arrester. No. 1,373,466; Apr. 5; v. 285; p. 17.
- Twiford, William R., Manville, Wyo. Windmill. No. 1,384,787; July 19; v. 288; p. 447.
- Twigg, Arthur C., Birmingham, England. Work-table for use in connection with hand-presses. No. 1,364,658; Jan. 4; v. 282; p. 118.
- Twigg, Ernest, assignor to Landers, Frary & Clark, New Britain, Conn. Wringer-support. No. 1,378,500; May 17; v. 286; p. 514.
- Twin City Feeder Manufacturing Company. (See Erickson, Marcus A., assignor.)
- Twin City Forge & Foundry Company. (See Ovestrud, Melvin, assignor.)
- Twin Disc Clutch Company. (See Fawick, Thomas I., assignor.)
- Twinberrow, James O., Montreal, Quebec, Canada. Load-equalizer for vehicle-springs. No. 1,373,109; Mar. 29; v. 284; p. 851.
- Twimomatic Machine and Tool Co. (See Barany, Edmund R., assignor.)
- Twinsight Optical Co. (See Bugbee, Lucian W., assignor.)
- Twiss, George V., London, England. Gripping device for wires and the like. No. 1,365,357; Jan. 11; v. 282; p. 296.
- Twisted Wire & Steel Co. (See Drew, C. L., and De Haven, assignors.)
- Twisted Wire & Steel Co. (See O'Connor, D. J., Nelson, and Nahabed, assignors.)
- Twitchell, James E. (See Wallace, G. T., and Twitchell.)
- Twombly, Alexander H., New York, A. P. Lundin, Bayside, N. Y., and R. A. Marr, Norfolk, Va., assignors, by mesne assignments, to American Balsa Company, Inc. Treating wood. No. 1,396,899; Nov. 15.
- Tworski, Martin, Vancouver, British Columbia, assignor of one-half to M. Szymanski, Winnipeg, Manitoba, Canada. Planting-machine. No. 1,396,900; Nov. 15.
- Twyman, Frank, assignor to Adam Hilger, Limited, London, England. Finishing and testing lenses. No. 1,386,663; Aug. 9; v. 289; p. 209.
- Twyman, Frank, and R. P. Wilson, assignors of one-third to Adam Hilger Limited, London, England. Optical gaging apparatus. No. 1,377,530; May 10; v. 286; p. 276.
- Twyman, Harold W., Norbury, London, England. Illuminated sign, facies, and the like. No. 1,385,764; July 26; v. 288; p. 724.
- Tyden, Einar O. E. (See Appelqvist, G. S. A., and Tyden.)
- Tyden, Emil, Hastings, Mich. Pump-jack. No. 1,367,217; Feb. 1; v. 283; p. 67.
- Tyden, Emil, Evanston, Ill. Bag-tie seal-lock. No. 1,396,479; Nov. 8.
- Tyler, Alva W., assignor, by mesne assignments, to W. Young, Los Angeles, Calif. Concentrator. No. 1,397,749; Nov. 22.
- Tyler, Charley P., Sherman, Tex. Car-rail hose-bridge. No. 1,398,497; Nov. 29.
- Tyler, Ethelda A., Villisca, Iowa. Safety device for occupants of vehicles. No. 1,368,466; Feb. 15; v. 283; p. 415.
- Tyler, Harry F., Redondo Beach, Calif. Furniture-bumper. No. 1,398,925; Nov. 29.
- Tyler, Roy G., West Everett, Mass. Clothes-hanger. No. 1,377,944; May 10; v. 286; p. 357.
- Tyler, William C., Racine, Wis., and A. H. Koza, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Fabric cutting and winding apparatus. No. 1,373,212; Mar. 29; v. 284; p. 873.
- Tynan, John B., Brewster, Ohio. Machine for rolling the valves of locomotives. No. 1,365,958; Jan. 18; v. 282; p. 454.
- Tyner, Richard H., Cincinnati, Ohio. Portable laundry-segregating bin. No. 1,381,896; June 14; v. 287; p. 351.
- Typewriter Calculating Attachment Company. (See Schinke, E. C., and Sutherland, assignors.)
- Typewriter Calculating Attachment Company. (See Tillman, Ferdinand J., assignor.)
- Tyree, Hiram, New York, N. Y. Burial-case. No. 1,365,634; Jan. 11; v. 282; p. 350.
- Tyree, Hiram, New York, N. Y. Tombstone. No. 1,365,635; Jan. 11; v. 282; p. 350.



*Alphabetical list of patentees—Continued.*

- Tyree, Hiram, New York, N. Y., assignor to International Glass Casket Company, Wilmington, Del. Glass casket No. 1,365,633; Jan. 11; v. 282; p. 350.
- Tyrer, Daniel, Stockton-on-Tees, England. Manufacture of sodium permanganate. No. 1,368,076; Feb. 8; v. 283; p. 290.
- Tziminadis, Harilaos N., New York, N. Y. Crude-oil-burning system. No. 1,380,126; May 31; v. 286; p. 969.
- U. E. Corporation. (See Scheril, Henry, assignor.)
- U. G. I. Contracting Company, The. (See Brady, Edward J., assignor.)
- U. G. I. Contracting Company. (See Chrisman, Charles S., assignor.)
- Uchytel, Frank A., Toledo, Iowa. Crutch-tip. No. 1,369,580; Feb. 22; v. 283; p. 580.
- Udale, Stanley M., assignor to G. M. Holley, Detroit, Mich. Thermostat. No. 1,371,277; Mar. 15; v. 284; p. 397.
- Udatt, William B., Rochester, N. Y. Gun-mount. No. 1,367,641; Feb. 8; v. 283; p. 208.
- Udgaard, Andrew G., Miles City, Mont. Wrench. No. 1,372,918; Mar. 29; v. 284; p. 814.
- Udy, Mavin J., Kokomo, Ind., and O. C. Ralston, Niagara Falls, N. Y., assignors to Hooker Electrochemical Company, New York, N. Y. Separating nickel and cobalt. No. 1,365,358; Jan. 11; v. 282; p. 297.
- Udy, Marvin J., and F. C. Nicholson, assignors to The Udylyte Process Company, Kokomo, Ind. Rust-proof piano-wire. No. 1,383,174; June 28; v. 287; p. 706.
- Udy, Marvin J., and F. C. Nicholson, assignors to The Udylyte Process Company, Kokomo, Ind. Spring. No. 1,383,175; June 28; v. 287; p. 706.
- Udy, Marvin J., and F. C. Nicholson, assignors to The Udylyte Process Company, Kokomo, Ind. Edged tool. No. 1,383,176; June 28; v. 287; p. 706.
- Udylyte Process Company, The. (See Udy, M. J., and Nicholson, assignors.)
- Uebersetzig, Chris. (See Adler, P., and Uebersetzig, assignors.)
- Uebelmesser, Charles. (See Winderhold, W., and Uebelmesser.)
- Uecker, Otto E., Milwaukee, Wis. Clothes-hanger. No. 1,364,161; Jan. 4; v. 282; p. 22.
- Uffert, Walter B., Jamaica, N. Y. Brake attachment. No. 1,399,591; Dec. 6.
- Uffand, Harry, *et al.* (See Carmody, Harold J., assignor.)
- Uhde, Fritz, Breslau, Germany. Device for recooling the water in cooling-towers. No. 1,383,039; June 28; v. 287; p. 681.
- Uhde, Fritz, Breslau, Germany. Cooling-tower. No. 1,399,037; Dec. 6.
- Uhl, Clyde, Bartlesville, Okla. Hoisting-machine. No. 1,382,576; June 21; v. 287; p. 538.
- Uhl, William, assignor to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,379,425; May 24; v. 286; p. 763.
- Uhlhorn, Otto O., Lisbon, N. D. Cultivator. No. 1,380,505; June 7; v. 287; p. 34.
- Uhlig, Franz, Berlin, Germany. Magnetic separator. No. 1,371,825; Mar. 15; v. 284; p. 504.
- Uhlig, Richard W., Arlington, N. J., assignor to Allen Typewriter Company, Allentown, Pa. Typewriting-machine. No. 1,384,788; July 19; v. 288; p. 447.
- Ulery, Charles E. and M. L. Nappanee, Ind. Wheeled vehicle. No. 1,364,659; Jan. 4; v. 282; p. 118.
- Ulery, Mary L. (See Ulery, Charles E. and M. L.)
- Ulfers, Ira, Freeport, Ill. Antiskidding device for tires. No. 1,374,692; Apr. 12; v. 285; p. 295.
- Ulfers Manufacturing Company. (See Keith, Herbert J., assignor.)
- Ullgren, Johan D., Stocksund, Sweden. Drying apparatus for wood-pulp and other matters. No. 1,376,659; May 3; v. 286; p. 53.
- Ulli, Albrecht, Le-Loche, Switzerland. Hat-fastening device. No. 1,393,186; Oct. 11.
- Ullman, Louis, New York, N. Y. Stopper-plug. No. 1,370,170; Mar. 1; v. 284; p. 79.
- Ullmann, William F., and W. C. Hillsinger, Syracuse, N. Y. Angle-cock. No. 1,390,314; Sept. 13; v. 290; p. 243.
- Ullrich, Edgar V., Colorado Springs, Colo. Tractor. No. 1,380,609; June 7; v. 287; p. 54.
- Ullrich, Edward R., Chicago, Ill. Sterilizing device. No. 1,398,983; Dec. 6.
- Ullrich, Georg, Magdeburg, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Magnetic separator. No. 1,366,979; Feb. 1; v. 283; p. 19.
- Ullrich, Irving T., Wolcott, N. Y. Agricultural implement. No. 1,376,236; Apr. 26; v. 285; p. 685.
- Ulmer, Theodore C. (See Dell, Albert, assignor.)
- Ulrich, Charles B., Jamestown, N. Y. Transfer-file. No. 1,386,143; Aug. 2; v. 289; p. 36.
- Ulrich, Horace W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,364,162; Jan. 4; v. 282; p. 22.
- Ulrich, John, St. Louis, Mo. Vent-valve. No. 1,393,653; Oct. 11.
- Ultra Earphone Co. (See Mansbendel, Fritz P., assignor.)
- Ulto-Chemical Corporation. (See Linz, Arthur, assignor.)
- Ulven, Edwin, Soldier, Iowa. Weather-board gage. No. 1,377,945; May 10; v. 286; p. 357.
- Ulysses Engine Company. (See Spelts, George A., Jr., assignor.)
- Umbsenstock, Walter, assignor to The Hill Pump Valve Company, Chicago, Ill. Machine for castellating nuts. No. 1,395,169; Oct. 25.
- Umbesen, Henry P., San Francisco, Calif., assignor to Umbesen Manufacturing Corporation, a Corporation of Delaware. Device for treating the eyes. No. 1,388,621; Aug. 23; v. 289; p. 707.
- Umbesen Manufacturing Corporation. (See Umbesen, Henry P., assignor.)
- Umeda, Torakichi, Tennoji-Mura, Japan. Envelop-machine. No. 1,375,618; Apr. 19; v. 285; p. 535.
- Umphrey, Harry D., *et al.* (See Umphrey, Henry, assignor.)
- Umphrey, Henry, assignor of one-third to E. D. B. Robertson and one-third to H. D. Umphrey, Carleton Place, Ontario, Canada. Shade and curtain holder. No. 1,375,805; Apr. 26; v. 285; p. 602.
- Umstead, Kennet. (See Maskrey, Alfred E., assignor.)
- Uncapher, Justice H. (See Tonguett, Howard A., assignor.)
- Unckrich, Clarence F., Galion, Ohio. Door-lock for open-end vaults. No. 1,375,645; Apr. 19; v. 285; p. 540.
- Underfeed Stoker Company of America, The. (See Blackburn, A. H., and DeVoe, assignors.)
- Underfeed Stoker Company of America, The. (See Blackburn, A. H., and Fleming, assignors.)
- Underfeed Stoker Company of America, The. (See DeVoe, William E., assignor.)
- Underfeed Stoker Company of America, The. (See Jennings, Thomas, assignor.)
- Underhill, Charles R., New Haven, Conn. Indicating mechanism. No. 1,386,915; Aug. 9; v. 289; p. 261.
- Underhill, Charles R., New Haven, Conn. Method and means of selection. No. 1,392,609; Oct. 4.
- Underhill, Charles R., New Haven, Conn. Controlling mechanism. No. 1,395,066; Oct. 25.
- Underwood Computing Machine Company. (See Degener, Gustave O., assignor.)
- Underwood Computing Machine Company. (See Des Jardins, Benjamin M., assignor.)
- Underwood Computing Machine Company. (See Duckstine, Julius, assignor.)
- Underwood Computing Machine Company. (See Giles, Louis E., assignor.)
- Underwood Computing Machine Company. (See Gumprecht, William L., assignor.)
- Underwood Computing Machine Company. (See Hart, Frederick A., assignor.)
- Underwood Computing Machine Company. (See K'Burg, Howard E., assignor.)
- Underwood Computing Machine Company. (See Norin, Carl E., assignor.)
- Underwood Computing Machine Company. (See Pitman, Henry L., assignor.)
- Underwood Computing Machine Company. (See Resch, Henry, assignor.)
- Underwood Computing Machine Company. (See Stickney, Burnham C., assignor.)
- Underwood Computing Machine Company. (See Thomas, Edward, assignor.)
- Underwood Computing Machine Company. (See Vickers, Harry H., assignor.)
- Underwood Computing Machine Company. (See Waldheim, John, assignor.)
- Underwood Computing Machine Company. (See Wernery, Lester A., assignor.)
- Underwood Computing Machine Company. (See Whiting, Horatio, assignor.)
- Underwood, Ernest E., assignor to Eastman Kodak Company, Rochester, N. Y. Exposure indicator. No. 1,391,870; Sept. 27; v. 290; p. 693.
- Underwood, James J. (See Langton, V. F., and Underwood.)
- Underwood, John T. and L. M., Dayton, Ohio. Twyer-grate for individual gas-producer kilns. No. 1,376,843; May 3; v. 286; p. 88.
- Underwood, Lois M. (See Underwood, John T. and L. M.)
- Underwood, Lois M., Dayton, Ohio. Kiln and operating the same. (Reissue.) No. 15,186; Aug. 30; v. 289; p. 951.
- Underwood Typewriter Company. (See Bacsanyi, Geza, assignor.)
- Underwood Typewriter Company. (See Barnard, Walter E., assignor.)
- Underwood Typewriter Company. (See Bates, Harry, assignor.)
- Underwood Typewriter Company. (See Bond, Joseph W., assignor.)
- Underwood Typewriter Company. (See Campbell, George W., assignor.)
- Underwood Typewriter Company. (See Doane, John C., assignor.)
- Underwood Typewriter Company. See Duckstine, Julius, assignor.)
- Underwood Typewriter Company. (See Foster, George H., assignor.)
- Underwood Typewriter Company. (See Fuerth, William G., assignor.)
- Underwood Typewriter Company. (See Hausman, Walter J., assignor.)



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 Underwood Typewriter Company. (See Sheehy, Jeremiah J., assignor.)  
 Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)  
 Underwood Typewriter Company. (See Stickney, Burnham, assignor.)  
 Underwood Typewriter Company. (See Thomas, Edward, assignor.)  
 Underwood Typewriter Company. (See Waldheim, John, assignor.)  
 Underwood Typewriter Company. (See Wherry, John A., assignor.)  
 Underwood, William W., St. Louis, Mo. Metallic snip. No. 1,368,077; Feb. 8; v. 283; p. 290.  
 Uneeda Cone Co. (See Levy, Daniel B., assignor.)  
 Unger, Hugo, assignor to Firm of Lintz & Eckhardt, Berlin, Germany. Hole-stitching machine. No. 1,376,658; May 3; v. 286; p. 52.  
 Unger, Magnus, Pittsfield, Mass., assignor to General Electric Company. Electrical system of power transmission. No. 1,373,923; Apr. 5; v. 285; p. 106.  
 Unger, Morris, Pittsburgh, Pa. Amusement device. No. 1,370,385; Mar. 1; v. 284; p. 119.  
 Unger, Morris, Pittsburgh, Pa. Amusement apparatus. No. 1,378,635; May 17; v. 286; p. 540.  
 Unger, Morris, Pittsburgh, Pa. Amusement device. No. 1,397,939; Nov. 22.  
 Unger, Morris, B. S. Veazie, and J. W. Zarro, Pittsburgh, Pa. Amusement device. No. 1,397,938; Nov. 22.  
 Unger, Morris, J. W. Zarro, and B. S. Veazie, Pittsburgh, Pa. Collapsible seat. No. 1,367,573; Feb. 8; v. 283; p. 195.  
 Unger, Paul, Chicago, Ill., assignor to Wilson-Jones Loose Leaf Company. Loose-leaf binder. No. 1,371,583; Mar. 15; v. 284; p. 459.  
 Unger, Paul O. (See Fargo, C. R., and Unger.)  
 Union Bag and Paper Corporation. (See Witham, George S., jr., assignor.)  
 Union Iron Works. (See Tidmarsh, Harry E., assignor.)  
 Union Iron Works. (See Tidmarsh, William R., assignor.)  
 Union Lock Stitch Company. (See Merrick, Frank W., assignor.)  
 Union Machinery Company. (See Streick, Frank, assignor.)  
 Union Metal Products Company. (See Mayhew, Edward A., assignor.)  
 Union Special Machine Company. (See Berger, Joseph, assignor.)  
 Union Special Machine Company. (See Chalman, John E., assignor.)  
 Union Special Machine Company. (See Hughes, Robert R., Jr., assignor.)  
 Union Special Machine Company. (See Kelso, Ralph S., assignor.)  
 Union Special Machine Company. (See McNeil, Chester, assignor.)  
 Union Special Machine Company. (See Moffatt, J. R., and Kelso, assignors.)  
 Union Special Machine Company. (See Moffatt, James R., assignor.)  
 Union Special Machine Company. (See Onderdonk, Lansing, assignor.)  
 Union Special Machine Company. (See Scott, Walter W., assignor.)  
 Union Special Machine Company. (See Seymour, Dudley S., assignor.)  
 Union Special Machine Company. (See Tate, Samuel G., assignor.)  
 Union Special Machine Company. (See Wohlpart, August J., assignor.)  
 Union Steel Casting Company. (See Toole, John, assignor.)  
 Union Steam Pump Company. (See Ambrose, Frank F., assignor.)  
 Union Steam Pump Company. (See Smith, Karl D., assignor.)  
 Union Steel Products Company, The. (See Dickie, Brockway, assignor.)  
 Union Steel Products Company, The. (See Hatch, Charles T., Jr., assignor.)  
 Union Stove Works. (See Myers, William H., assignor.)  
 Union Switch & Signal Company, The. (See Beall, Charles R., assignor.)  
 Union Switch & Signal Company, The. (See Day, Albert V. T., assignor.)  
 Union Switch & Signal Company, The. (See Driscoll, Robert E., assignor.) (Reissue.)  
 Union Switch & Signal Company, The. (See Dunham, Charles W., assignor.)  
 Union Switch & Signal Company, The. (See Harrington, Clinton O., assignor.)  
 Union Switch & Signal Company, The. (See Kilgour, Arthur C., assignor.)  
 Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.) (Reissue.)  
 Union Switch & Signal Company, The. (See Loomis, Harold S., assignor.)  
 Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)  
 Union Switch & Signal Company, The. (See Willard, Paul F., assignor.)  
 Union Switch & Signal Company, The. (See Zabel, William, assignor.)  
 Union Tank & Pipe Company. (See Metzger, John, assignor.)  
 Unit Ice Machine Co. (See Knox, George F., assignor.)  
 United Alfalfa Company. (See Shamblen, Lester B., assignor.)  
 United Alloy Steel Corporation. (See Maineri, Daniel L., assignor.)  
 United Autographic Register Co. (See Jensen, Louis, assignor.)  
 United Banking & Savings Company, trustee, The. (See Wight, James M., assignor.)  
 United Bottle Machinery Co. (See Lobb, Frank H., assignor.)  
 United Brass Manufacturing Company. (See Schuler, Fred, assignor.)  
 United Concrete Pipe Co. (See Page, Stephen E., assignor.)  
 United Drug Company. (See Hutcheson, Thomas C., assignor.)  
 United Electric Company, The. (See Paulus, George R., assignor.)  
 United Engine Company. (See Rutherford, Nealon D., assignor.)  
 United Engineering & Foundry Company. (See Moses, Richard W., assignor.)  
 United Enterprises Limited. (See Bentley, Alfred D., assignor.)  
 United Filters Corporation. (See Sweetland, Ernest J., assignor.)  
 United Fruit Company. (See Schutt, Richard R., assignor.)  
 United Harrow Mfg. Co. (See McNabb, Ernst W., assignor.)  
 United Iron Works. (See Yeatman, John A., assignor.)  
 United Machinery Company, The. (See Leister, William H., assignor.)  
 United Mines and Manufacturing Company, The. (See Kohler, Ernest, assignor.)  
 United Picce Dye Works, Inc. (See Rau, Albert, assignor.)  
 United Printing Machinery Company. (See Belluche, Frank R., assignor.)  
 United Printing Machinery Company. (See Upham, B. F., and Belluche, assignors.)  
 United Shirt & Collar Company. (See Dormandy, Garry J., assignor.)  
 United Shoe Machinery Corporation. (See Ammon, Conrad, Jr., assignor.)  
 United Shoe Machinery Corporation. (See Ashton, Orrell, assignor.)  
 United Shoe Machinery Corporation. (See Ashworth, Fred, assignor.)  
 United Shoe Machinery Corporation. (See Ayers, F. L., and Mackenzie, assignors.)  
 United Shoe Machinery Corporation. (See Bates, Arthur, assignor.)  
 United Shoe Machinery Corporation. (See Baxter, William C., assignor.)  
 United Shoe Machinery Corporation. (See Bazzoni, Lewis J., assignor.)  
 United Shoe Machinery Corporation. (See Beaumont, Ernest C., assignor.)  
 United Shoe Machinery Corporation. (See Benjamin, John M., assignor.)  
 United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)  
 United Shoe Machinery Corporation. (See Black, George H., assignor.)  
 United Shoe Machinery Corporation. (See Bollman, Charles M., assignor.)  
 United Shoe Machinery Corporation. (See Bouchard, Urbain J., assignor.)  
 United Shoe Machinery Corporation. (See Bradford, Charles M., assignor.)  
 United Shoe Machinery Corporation. (See Brennan, William J., assignor.)  
 United Shoe Machinery Corporation. (See Brock, Matthias, assignor.)  
 United Shoe Machinery Corporation. (See Brogan, Michael F., assignor.)  
 United Shoe Machinery Corporation. (See Buck, Louis H., assignor.)  
 United Shoe Machinery Corporation. (See Bunker, D. W., and Bradford, assignors.)  
 United Shoe Machinery Corporation. (See Casgrain, Louis A., assignor.)  
 United Shoe Machinery Corporation. (See Cash, Albert, assignor.) (Reissue.)  
 United Shoe Machinery Corporation. (See Chateaufneuf, Frank, assignor.)  
 United Shoe Machinery Corporation. (See Clarke, Thomas B., assignor.)  
 United Shoe Machinery Corporation. (See Coffey, John, assignor.)  
 United Shoe Machinery Corporation. (See Conner, Charles E., assignor.)



*Alphabetical list of patentees—Continued.*

- United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)  
 United Shoe Machinery Corporation. (See Davenport, Herman A., assignor.)  
 United Shoe Machinery Corporation. (See Davey, John F., assignor.)  
 United Shoe Machinery Corporation. (See Doyle, Joseph H., assignor.)  
 United Shoe Machinery Corporation. (See Duplessis, René E., assignor.)  
 United Shoe Machinery Corporation. (See Eaton, Harrison H., assignor.)  
 United Shoe Machinery Corporation. (See Elliott, Harry D., assignor.)  
 United Shoe Machinery Corporation. (See Engel, Karl, assignor.)  
 United Shoe Machinery Corporation. (See Eppler, Andrew, assignor.)  
 United Shoe Machinery Corporation. (See Erickson, Edward, assignor.)  
 United Shoe Machinery Corporation. (See Ferguson, George, assignor.)  
 United Shoe Machinery Corporation. (See Fossa, Joseph, assignor.)  
 United Shoe Machinery Corporation. (See Fowler, Alfred B., assignor.)  
 United Shoe Machinery Corporation. (See Fuller, Frederick R., assignor.)  
 United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)  
 United Shoe Machinery Corporation. (See Furguson, George, assignor.)  
 United Shoe Machinery Corporation. (See Glass, Perley R., assignor.)  
 United Shoe Machinery Corporation. (See Goddie, George, assignor.)  
 United Shoe Machinery Corporation. (See Goddu, G., and Mackenzie, assignors.)  
 United Shoe Machinery Corporation. (See Goddu, George, assignor.)  
 United Shoe Machinery Corporation. (See Gookin, Sylvester L., assignor.)  
 United Shoe Machinery Corporation. (See Gorsuch, George J., assignor.)  
 United Shoe Machinery Corporation. (See Gouldbourn, Joseph, assignor.)  
 United Shoe Machinery Corporation. (See Greenough, Henry B., assignor.)  
 United Shoe Machinery Corporation. (See Hadaway, J. B., and Seely, assignors.)  
 United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)  
 United Shoe Machinery Corporation. (See Hamilton, Harry D., assignor.)  
 United Shoe Machinery Corporation. (See Hart, Fred V., assignor.)  
 United Shoe Machinery Corporation. (See Hayden, Amos S., assignor.)  
 United Shoe Machinery Corporation. (See Heys, John J., assignor.)  
 United Shoe Machinery Corporation. (See Hill, George S., assignor.)  
 United Shoe Machinery Corporation. (See Horgan, Patrick J., assignor.)  
 United Shoe Machinery Corporation. (See Hoyt, Charles H., assignor.)  
 United Shoe Machinery Corporation. (See Hubbard William, assignor.)  
 United Shoe Machinery Corporation. (See Hudson, Albert E., assignor.)  
 United Shoe Machinery Corporation. (See Hunt, Chester, assignor.)  
 United Shoe Machinery Corporation. (See Hurd, George H., assignor.)  
 United Shoe Machinery Corporation. (See Jerram, A. E., and Keall, assignors.)  
 United Shoe Machinery Corporation. (See Johnson, Albert E., assignor.)  
 United Shoe Machinery Corporation. (See Johnson, Merton E., assignor.)  
 United Shoe Machinery Corporation. (See Jorgensen, Bernhard, assignor.)  
 United Shoe Machinery Corporation. (See Kelly, John A., assignor.)  
 United Shoe Machinery Corporation. (See Knight, Ralph F., assignor.)  
 United Shoe Machinery Corporation. (See Knowles, Lloyd G., assignor.)  
 United Shoe Machinery Corporation. (See Knowlton, Cutler D., assignor.)  
 United Shoe Machinery Corporation. (See Krippendorf, Paul F. W. C., assignor.)  
 United Shoe Machinery Corporation. (See Lancaster, John T., assignor.)  
 United Shoe Machinery Corporation. (See Lane, Elmer E., assignor.)  
 United Shoe Machinery Corporation. (See Lawson, Robert H., assignor.)  
 United Shoe Machinery Corporation. (See Littlefield, Augustine F., assignor.)  
 United Shoe Machinery Corporation. (See Loomer, Henry M., assignor.)  
 United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)  
 United Shoe Machinery Corporation. (See MacDonald, Clifford K., assignor.)  
 United Shoe Machinery Corporation. (See Mackenzie, F. L., and Goddu, assignors.)  
 United Shoe Machinery Corporation. (See Mackenzie, Fred L., assignor.)  
 United Shoe Machinery Corporation. (See Macleod, Albert A., assignor.)  
 United Shoe Machinery Corporation. (See McFreely, Ronald F., assignor.)  
 United Shoe Machinery Corporation. (See Mayo, Benjamin F., assignor.)  
 United Shoe Machinery Corporation. (See Megathlin, Ralph S., assignor.)  
 United Shoe Machinery Corporation. (See Meyer, William C., assignor.)  
 United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)  
 United Shoe Machinery Corporation. (See Morrill, Charles H., assignor.)  
 United Shoe Machinery Corporation. (See Perry, Frederick H., assignor.)  
 United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)  
 United Shoe Machinery Corporation. (See Rowe, Edgar E., assignor.)  
 United Shoe Machinery Corporation. (See Preble, Edwin N., assignor.)  
 United Shoe Machinery Corporation. (See Pym, Charles F., assignor.)  
 United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)  
 United Shoe Machinery Corporation. (See Richardson, John H., assignor.)  
 United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)  
 United Shoe Machinery Corporation. (See Searle, Henry C., assignor.)  
 United Shoe Machinery Corporation. (See Scott, T., and Cleland, assignors.)  
 United Shoe Machinery Corporation. (See Seely, Thomas H., assignor.)  
 United Shoe Machinery Corporation. (See Shackley, Moses E., assignor.)  
 United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)  
 United Shoe Machinery Corporation. (See Small, Chester C., assignor.)  
 United Shoe Machinery Corporation. (See Smith, Robert B., assignor.)  
 United Shoe Machinery Corporation. (See Smith, Willard A., assignor.)  
 United Shoe Machinery Corporation. (See Stanbon, Charles P., assignor.)  
 United Shoe Machinery Corporation. (See Standish, John F., assignor.)  
 United Shoe Machinery Corporation. (See Stewart, William C., assignor.)  
 United Shoe Machinery Corporation. (See Thompson, Frank H., assignor.)  
 United Shoe Machinery Corporation. (See Tolman, George S., Jr., assignor.)  
 United Shoe Machinery Corporation. (See Toothaker, Fred E., assignor.)  
 United Shoe Machinery Corporation. (See Topham, Laurence E., assignor.)  
 United Shoe Machinery Corporation. (See Toye, Cyrus D., assignor.)  
 United Shoe Machinery Corporation. (See Ward, Frank W., assignor.)  
 United Shoe Machinery Corporation. (See Wentworth, Jesse S., assignor.)  
 United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)  
 United Shoe Machinery Corporation. (See Winter, Henry W., assignor.)  
 United Soda Fountain Company. (See Condon, Ernest L., assignor.)  
 United Food Products Company. (See Sasseeen, John H., assignor.)  
 United States Air Compressor Company, The. (See Bacher, Rollin L., assignor.)  
 U. S. Armor Corporation. (See de Dragic, T., and Schwarz, assignors.)  
 United States Asphalt Refining Co., The. (See Law, Leroy M., assignor.)  
 United States Automatic Corporation. (See Arbuckle, Samuel F., assignor.)  
 United States Automatic Fire Alarm Company, The. (See Nissen, Peter L., assignor.)  
 United States Automotive Corporation. (See De Martin, C. L., Matteoli, and Arbuckle, assignors.)  
 United States Automotive Corporation. (See Arbuckle, Samuel F., assignor.)  
 U. S. Ball Bearing Mfg. Co. (See Dlesk, John, assignor.)  
 U. S. Bottlers Machinery Co. (See Risser, Arthur I., assignor.)



*Alphabetical list of patentees—Continued.*

- United States Cast Iron Pipe & Foundry Company. (See Anthony, Thomas P., assignor.)  
 United States Chain & Forging Co. (See Sauerwald, Irvin, assignor.)  
 United States Coal Manufacturing Company, The. (See Taggart, W. P., assignor.)  
 United States Compressing Corporation. (See Whitney, George E., assignor.)  
 United States Envelope Company. (See Cather, Charles E., assignor.)  
 United States Envelope Company. (See Funk, Nelson E., assignor.)  
 United States Envelope Company. (See Furman, Samuel, assignor.)  
 United States Envelope Company. (See Swift, Willard E., assignor.)  
 U. S. Expansion Bolt Co. (See Peterson, Tron O., assignor.)  
 United States Fastener Company. (See Holmes, George A., assignor.)  
 United States Ferro-Alloys Corporation. (See Petinot, Napoleon, assignor.)  
 United States Ferro-Alloys Corporation. (See Sicard, Hugh C., assignor.)  
 United States Gauge Company. (See Nelson, R. M., and Aschenbach, assignors.)  
 United States Gauge Company. (See Nelson, Ralph M., assignor.)  
 United States Gypsum Company. (See Birdsey, Charles R., assignor.)  
 United States Gypsum Company. (See Brookby, Harry E., assignor.)  
 United States Gypsum Company. (See Utzman, Clarence W., assignor.)  
 United States Hoffman Machinery Company. (See Chase, Herschel E., assignor.)  
 U. S. Industrial Alcohol Co. (See Backhaus, Arthur A., assignor.)  
 U. S. Industrial Alcohol Co. (See Backhaus, A. A., and Haner, assignors.)  
 U. S. Industrial Alcohol Co. (See Backhaus, A. A., and Arentz, assignors.)  
 U. S. Industrial Alcohol Co. (See Cochrane, William F., assignor.)  
 U. S. Industrial Alcohol Co. (See Haner, Carl, Jr., assignor.)  
 U. S. Industrial Alcohol Co. (See Hayes, Albert, assignor.)  
 U. S. Industrial Alcohol Co. (See Kelen, Dezsö E., assignor.)  
 U. S. Industrial Alcohol Co. (See Schreiber, Walter T., assignor.)  
 U. S. Industrial Alcohol Co. (See Steffens, John A., assignor.)  
 U. S. Industrial Alcohol Co. (See Whitaker, Milton C., assignor.)  
 U. S. Industrial Alcohol Co. (See Willkie, Herman F., assignor.)  
 U. S. Light & Heat Corporation. (See Bauer, Ernest, assignor.)  
 U. S. Light & Heat Corporation. (See Bliss, William L., assignor.)  
 U. S. Light & Heat Corporation. (See Carpenter, Campbell C., assignor.)  
 U. S. Light & Heat Corporation. (See Du Bois, Thomas R., assignor.)  
 U. S. Light & Heat Corporation. (See Ellis, Roy J., assignor.)  
 U. S. Light & Heat Corporation. (See Engel, Frank, assignor.)  
 U. S. Light & Heat Corporation. (See Loudon, Warren P., assignor.)  
 U. S. Light & Heat Corporation. (See Steerup, Godfrey, assignor.)  
 U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)  
 United States Machine Gun Company. (See Berthier, Andre V. P. M., assignor.)  
 United States Machine Gun Company. (See Haskell, George D., assignor.)  
 United States Malleable Iron Co., The. (See Luschen, Henry J., assignor.)  
 United States Metals Refining Co. (See Thorn, Howard W., assignor.)  
 United States Motor Fuel Corporation. (See Hoffman, William J., assignor.)  
 United States of America. (See Davis, A. L., and Jacob, assignors.)  
 United States of America. (See Fuller, Leonard F., assignor.)  
 United States of America, The. (See Hawley, Lee F., assignor.)  
 United States of America, The. (See Hetherington, H. C., and Braham, assignors.)  
 United States of America, The. (See Wells, Sidney D., assignor.)  
 United States Ordnance Company. (See Asbury, Dorsey F., assignor.)  
 United States Ordnance Company. (See Leech, Abner Y., Jr., assignor.)  
 United States Ordnance Company. (See Powers, John N., assignor.)  
 United States Ordnance Company. (See Sheppard, Creedy C., assignor.)  
 United States Ordnance Company. (See Smith, George L., assignor.)  
 United States Ordnance Company. (See Stein, Rudolph F., assignor.) (Reissue.)  
 U. S. Products Corporation. (See Roscoe, Ragner A., assignor.)  
 U. S. Sanitary Specialties Corporation. (See Little, Robert H., assignor.)  
 U. S. Slicing Machine Company. (See Luschka, A. R., and Folk, assignors.)  
 U. S. Slicing Machine Company. (See Stiles, Edward M., assignor.)  
 U. S. Slicing Machine Company. (See Van Berkle, Cornelis F. M., assignor.)  
 United States Spray Company. (See Gerhart, Bayless W., assignor.)  
 United States Wire Mat Co. (See Cash, Arthur W., assignor.)  
 United Telegram Company, The. (See MacCoy, A. T., and Allen, assignors.)  
 Unity Development Company. (See Richards, Willard F., and W. R., assignors.)  
 Unity Tire & Mfg. Co. (See Davis, De Leon, assignor.)  
 Universal Arch Company. (See Miller, Charles E., assignor.)  
 Universal Ash Tray Company. (See Downey, John F., assignor.)  
 Universal Chain Co. (See Robertson, C., and Laupot, assignors.)  
 Universal Cot Company. (See Mackie, H. A., and Shearer, assignors.)  
 Universal Electric Welding Company. (See Lachman, Maurice, assignor.)  
 Universal Engineering Construction and Power Company. (See Morris, William R., assignor.)  
 Universal Equalizer Company, The. (See Young, Charles F., assignor.)  
 Universal Fibre Company. (See Rivers, Julian H., assignor.)  
 Universal Industrial Corporation. (See Swaidmark, Albin P., assignor.)  
 Universal Interests Inc. (See Roys, Herman E., assignor.)  
 Universal Interests Inc. (See Zieley, John D., assignor.)  
 Universal Lamp Co. (See Sherman, Jacob S., assignor.)  
 Universal Mercerizing & Dyeing Co. (See Spitzer, Jacob, assignor.)  
 Universal Milking Machine Company. (See Eklundh, John G. G., assignor.)  
 Universal Milking Machine Company, The. (See Schmitt, John A., assignor.)  
 Universal Motor Truck and Traction Engine Company. (See Timberlake, Daniel T., assignor.)  
 Universal Novelty Manufacturing Company. (See Hoffman, John E., assignor.)  
 Universal Optical Corporation. (See Schott, Howard H., assignor.)  
 Universal Parts Company, The. (See Yassenoff, Isidor, assignor.)  
 Universal Rim Company. (See Baker, Erle K., assignor.)  
 Universal Safety Ash Tray Company. (See Jones, Howard N., assignor.)  
 Universal Safety Suit Co. (See Dade, Jesse E., assignor.)  
 Universal Stamping Machine Company. (See Ogden, Jacob W., assignor.)  
 Universal Tobacco Machine Co. (See Jackson, Graham H., assignor.)  
 Universal Tobacco Machine Company. (See Jackson, Graham H., assignor.)  
 Universal Tool Company. (See Evans, E. J., and Hemphill, assignors.)  
 Universal Traffic Control Company, (a trust estate.) (See Wetter, Ralph E., assignor.)  
 Universal Transmission Co. (See Kimball, Don L., assignor.)  
 Universal Winding Company. (See Brink, Carl A., assignor.)  
 Universelle Cigaretten-Maschinen-Industrie System Otto Bergsträsser Aktiengesellschaft. (See Grahl, Max C., assignor.)  
 University of Minnesota. (See Kendall, Edward C., assignor.)  
 Unruh, Albert A., Salem, Oreg. Automobile-brake. No. 1,392,987; Oct. 11.  
 Updegrave, William M., and A. S. Ryesky, Johnstown, Pa. Spectacle-frame. No. 1,381,603; June 14; v. 287; p. 294.  
 Updegrave, William M., Johnstown, Pa. Eye-testing chart. No. 1,391,084; Sept. 20; v. 290; p. 461.  
 Upham, Burt F., Brookline, and F. R. Belluche, Mansfield, Mass., assignors to United Printing Machinery Company, Boston, Mass. Bed-motion for sheet-printing presses. No. 1,398,817; Nov. 29.  
 Upham, Preston. (See McGowan, E., and Upham.)  
 Upham, William P., Keene, N. H., assignor to Ros-Aux Company, Boston, Mass. Sizing and making the same. No. 1,392,988; Oct. 11.  
 Uphoff, Leslie S. (See Johnston, G. C., and Uphoff.)  
 Upjohn Company, The. (See Heyl, Frederick W., assignor.)  
 Upp, Edwin L., Lorain, Ohio, assignor to National Tube Company, Pittsburgh, Pa. Automatic dump-trough-operating apparatus. No. 1,398,818; Nov. 29.



## Alphabetical list of patentees—Continued.

- Upperer, Inglis M., New York, N. Y. Aeroplane. No. 1,367,218; Feb. 1; v. 283; p. 67.
- Upright, Ernest T., Fresno, Calif., assignor of one-half to R. W. Upright. Measuring device for semiliquids. No. 1,393,856; Oct. 18.
- Upright, Robert W. (See Upright, Ernest T., assignor.)
- Upson, Charles A., Lockport, N. Y. Wall-board fastener. No. 1,373,036; Mar. 29; v. 284; p. 837.
- Upson Nut Company, The. (See Kaase, John, assignor.)
- Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Airship. No. 1,375,242; Apr. 19; v. 285; p. 463.
- Upson, Ralph H., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Kite balloon. No. 1,385,972; July 26; v. 288; p. 764.
- Upson, Ralph H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Obtaining samples from a balloon while inflated. No. 1,396,709; Nov. 8.
- Upton, Henry J., West Medford, Mass. Fountain-pen. No. 1,365,131; Jan. 11; v. 282; p. 253.
- Upton, Henry J., West Medford, assignor to Vaughn Upton Company, Boston, Mass. Fountain-pen. No. 1,395,878; Nov. 1.
- Urban, Arthur, Sheboygan Falls, Wis. Spindle file. No. 1,381,035; June 7; v. 281; p. 137.
- Urban, Joseph P., Detroit, Mich. Garbage-receptacle. No. 1,371,007; Mar. 8; v. 284; p. 283.
- Urbano, Faustino B., New York, N. Y. Rotary jack for vehicles. No. 1,394,376; Oct. 18.
- Urfer, Charles. (See Duparc, L., and Urfer.)
- Uribe-Troncoso, Manuel, assignor to W. Uribe-Troncoso, New York, N. Y. Schematic eye for skiascopy. No. 1,377,740; May 10; v. 286; p. 316.
- Uribe-Troncoso, William. (See Uribe-Troncoso, Manuel, assignor.)
- Urie, James W., assignor of one-half to A. B. Goodwin, Carson City, Mich. Wire-twister. No. 1,377,373; May 10; v. 286; p. 247.
- Urquhart, Charles H., Newark, N. J. Preparing fuel. No. 1,386,472; Aug. 2; v. 289; p. 99.
- Urquhart, Charles H., Newark, N. J. Fuel. No. 1,386,473; Aug. 2; v. 289; p. 99.
- Urruty, Jean, Coulon, assignor to La Société Urruty & Cie., Paris, France. Disincrustant for cleaning condensers and boilers. No. 1,371,584; Mar. 15; v. 284; p. 459.
- Urso, Benedetto, Watson, assignor of one-half to C. C. Shinn, Fairmont, W. Va. Refrigerator. No. 1,389,171; Aug. 30; v. 289; p. 871.
- Ursus Motor Company. (See Szumkowski, Leonard S., assignor.)
- Usher, Francis M. C., Fulton, Ky. Silo-press. No. 1,367,900; Feb. 8; v. 283; p. 257.
- Usher, Harold, and C. H. J. Gooch, London, assignors to Wood Postal Boxes Limited, Stratford, England. Manufacture and production of boxes for postal and other purposes. No. 1,396,605; Nov. 8.
- Usher, Ruth H., Brooklyn, N. Y. Doll. (Reissue.) No. 1,518,88; Sept. 6; v. 290; p. 140.
- Usher, William. (See Lawrence, George, assignor.)
- Usines Electriques de la Lonza. (See Luder, Ernst, assignor.)
- Utica Heater Company. (See Seemann, Jacob J., assignor.)
- Utica Knitting Company. (See Jones, H. S., and Cullinan, assignors.)
- Utey, Thomas, Liverpool, England. Ship's light. No. 1,364,465; Jan. 4; v. 282; p. 81.
- Utey, Thomas, Liverpool, England. Ship's light. No. 1,393,857; Oct. 18.
- Utter, Richard L., Oak Park, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Relay-interrupter. No. 1,368,376; Feb. 15; v. 283; p. 397.
- Utz, Harvey P. (See Stallsmith, Joseph F., assignor.)
- Utz, John G., and T. Zimmerman, assignors to The Standard Parts Company, Cleveland, Ohio. Axle. No. 1,370,073; Mar. 1; v. 284; p. 60.
- Utzman, Clarence W., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Plaster-board. No. 1,383,249; June 28; v. 287; p. 270.
- Uvaas, Oscar H., Kensington, Minn. Rim contractor and expander. No. 1,379,426; May 24; v. 286; p. 763.
- V. & O. Press Company, The. (See Osswald, Herman, assignor.)
- V. B. M. Company. (See Moran, William F., assignor.)
- Vacarezza, Andrew, Vineland, N. J. Oven-rack. No. 1,370,717; Mar. 8; v. 284; p. 229.
- Vaco Manufacturing Corporation. (See Le Bras, Louis, assignor.)
- Vacuum Carburetor Company, The. (See En Earl, William J., assignor.)
- Vacuum Glass Machine Company. (See Rohland, Charles A., assignor.)
- Vacuum Machinery Co. (See McCarthy, Edward F., assignor.)
- Vacuum Muffler Corporation. (See Carlen, Bjarne, assignor.)
- Vacuum Oil Company. (See Sutherland, Robert F., assignor.)
- Vacuum Refrigeration Company. (See Huyett, D. D., and Register, assignors.)
- Vaden, Willie T., Jr., Dayton, Tex. Mouse and rat poisoner. No. 1,393,590; Oct. 11.
- Vaeth, William C., assignor to Eastman Kodak Company, Rochester, N. Y. Lock for tripod-heads. No. 1,386,664; Aug. 9; v. 289; p. 210.
- Vail, George L., Cleveland Heights, Ohio. Shutter. No. 1,394,656; Oct. 25.
- Vail, Robert W., New York, N. Y. Burglar-alarm system. No. 1,374,255; Apr. 12; v. 285; p. 210.
- Vaile, John H., assignor to The Vaile-Kimes Company, Dayton, Ohio. Water-supply system. No. 1,365,359; Jan. 11; v. 282; p. 297.
- Vaile-Kimes Company, The. (See Kimes, Hugh W., assignor.)
- Vaile-Kimes Company, The. (See Masters, John H., assignor.)
- Vaile-Kimes Company, The. (See Vaile, John H., assignor.)
- Vaile, Pembroke A., New York, N. Y. Tennis-racket. No. 1,364,331; Jan. 4; v. 282; p. 55.
- Vaile, Rowland W. T., et al. (See Batten, Edward, assignor.)
- Vakilian, Randey, Brooklyn, N. Y. Cigarette-holder. No. 1,388,222; Aug. 23; v. 289; p. 628.
- Vala, Charles, Marshfield, Oreg. Butt-hook. No. 1,388,404; Aug. 23; v. 289; p. 688.
- Valade, Hector B., Kankakee, Ill. Non-freezable window. No. 1,394,237; Oct. 18.
- Valderrama, José, Madrid, Spain. Syringe. No. 1,371,133; Mar. 8; v. 284; p. 307.
- Valderrama Ricordi, Juan A., New York, N. Y. Tractor. No. 1,372,052; Mar. 22; v. 284; p. 605.
- Valderrama Ricordi, Juan A., New York, N. Y. Grass-Harvester. No. 1,372,213; Mar. 29; v. 284; p. 873.
- Vale, Ruby R., Milford, Del. Vehicle wheel. No. 1,382,023; June 21; v. 287; p. 436.
- Vale, Ruby R., Milford, Del. Automobile-wheel. No. 1,382,031; June 21; v. 287; p. 436.
- Valeggia, Andrew, London, England. Pencil-holder. No. 1,375,029; Apr. 19; v. 285; p. 423.
- Valent, Johan, West Hoboken, N. J. Gear-shifting device. No. 1,380,874; June 7; v. 287; p. 106.
- Valentine, Joseph R., and F. W. Alkire, Salt Lake City, Utah. Footboard weather-guard. No. 1,385,287; July 19; v. 288; p. 550.
- Valentine, Rollo H., assignor of one-half to R. I. Hall, Clinton, Ill. Tufting device. No. 1,374,409; Apr. 12; v. 285; p. 240.
- Valerio, Pietro F., New York, N. Y. Film-shift lock for cameras. No. 1,400,641; Dec. 20.
- Vales, Edward J., and J. T. Bishop, Augusta, Ga. Pressure mechanism for roll-stands. No. 1,387,816; Aug. 16; v. 289; p. 402.
- Valer, Einar J., New York, N. Y. Steering mechanism for vehicles. No. 1,374,044; Apr. 5; v. 285; p. 129.
- Valinski, Stanley, Homestead, Pa. Man-catching tank. No. 1,392,095; Sept. 27; v. 290; p. 739.
- Vall, Carl, Rochester, N. Y. Lens-front mount. No. 1,396,388; Nov. 8.
- Vallee, Alfred J., Vancouver, British Columbia, Canada. Weight-supporting device. No. 1,366,612; Jan. 25; v. 282; p. 626.
- Vallley, Cornelius P., Bradford, Pa. Burner for gas and oil. No. 1,381,144; June 14; v. 287; p. 210.
- Vallley, Cornelius P., Bradford, Pa. Burner for gas and oil. No. 1,394,377; Oct. 18.
- Vallens, Eugene, New York, N. Y. Cigar-package. No. 1,373,577; Apr. 5; v. 285; p. 39.
- Valley Holding Corporation. (See McBratney, Harry T., assignor.)
- Valley Mould and Iron Corporation. (See Coates, Ray G., assignor.)
- Valls, Raphael W., assignor to The Champlon Engineering Co., Kenton, Ohio. Limit-switch. No. 1,369,147; Feb. 22; v. 283; p. 586.
- Valois, Félix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Drive for shoe-sewing machines. No. 1,368,417; Feb. 15; v. 283; p. 405.
- Valois, Félix E., Bridgeport, Conn., assignor to Hamel Shoe Machinery Company, Lynn, Mass. Needle-motion. No. 1,368,418; Feb. 15; v. 283; p. 405.
- Valois, Félix E., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Sole-laying machine. No. 1,389,714; Sept. 6; v. 290; p. 31.
- Valois, Félix E., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Drive mechanism. No. 1,399,038; Dec. 6.
- Valve Bag Company, The. (See Hartman, Louis H., assignor.)
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,375,475; Apr. 19; v. 285; p. 508.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,375,476; Apr. 19; v. 285; p. 508.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,375,477; Apr. 19; v. 285; p. 508.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Ammonia and tar recovery. No. 1,375,478; Apr. 19; v. 285; p. 508.
- Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Gas-main controller. No. 1,398,055; Nov. 22.



- Van Affaire, Pieter, assignor to Naamlooze Vennootschap Wilton's Maschinefabrieken Scheepswerf, Rotterdam, Netherlands. Dock. No. 1,398,825; Nov. 29.
- Van Allen, George L., Prince Bay, New York, assignor to Baker & Company, Inc. Package for dental solder and the like. No. 1,375,479; Apr. 19; v. 285; p. 509.
- Van Allen, George L., Prince Bay, N. Y., assignor to Baker & Company, Inc. Dental shell. No. 1,379,063; May 24; v. 286; p. 694.
- Van Aller, Tycho, Schenectady, N. Y., assignor to General Electric Company. Metal-melting pot. No. 1,394,954; Oct. 25.
- Van Alstyn, Albert T., Grand Rapids, Mich. Paper receptacle or tray. No. 1,398,611; Nov. 29.
- Van Amber, John R., Watertown, N. Y. Glare-stop. No. 1,399,673; Dec. 6.
- Van Arsdale, George D., and C. G. Maier, New York, N. Y. Electrolytically precipitating metals and compounds from solutions. No. 1,371,826; Mar. 15; v. 284; p. 505.
- Van Arsdell, Wallace B. (See Burningham, F. A., Richter, Van Arsdell, and White.)
- Van Arsdell, Wallace B. (See Richter, G. A., Van Arsdell, and White.)
- Van Asperen, Cornelis II., Toronto, Ontario, Canada. Aerial lifting device. No. 1,374,256; Apr. 12; v. 285; p. 210.
- Van Atten, Lewis, Ossining, N. Y. Electrical connector. No. 1,383,040; June 28; v. 287; p. 681.
- Van Auker, Milo S. (See Paulson, Ernest W., assignor.)
- Van Bavegen, Edgar, Oosterzele, Belgium. Constructing reinforced concrete structures. No. 1,398,209; Nov. 22.
- Van Berg, Louis. (See Steenstra, George, assignor.)
- Van Berkel, Cornelis F. M., assignor to U. S. Slicing Machine Company, Laporte, Ind. Holder for slicing-machines. No. 1,395,690; Nov. 1.
- Van Blarcom, James Y., Paterson, N. J. Shutter-fastener. No. 1,386,291; Aug. 2; v. 289; p. 65.
- Van Bogaert, John F., Brussels, Belgium. Integrator and differentiator. No. 1,380,754; June 7; v. 287; p. 82.
- Van Brunt, Cyrus W., and L. Edwards, Durand, Wis. Extension-perch for springs. No. 1,374,617; Apr. 12; v. 285; p. 281.
- Van Buren, Chester G., Chicago, Ill. Loose-leaf binder. No. 1,380,755; June 7; v. 287; p. 82.
- Van Buren, Martin, Dayton, Wash. Inkstand. No. 1,371,955; Mar. 15; v. 284; p. 529.
- Van Buren, Willie. (See Harris, B., and Van Buren.)
- Van Camp, Gordon, Drayton, N. D. Tire-valve device. No. 1,375,429; Apr. 19; v. 285; p. 499.
- Van Cappelle, Herman, assignor of one-third to C. Van Velsen, The Hague, Netherlands. Cinematographic device. No. 1,370,386; Mar. 1; v. 284; p. 119.
- Vance Company, The. (See Rush, Albert, assignor.)
- Vance, Herman E. (See La Pointe, William B., assignor.)
- Vance, J. R. (See Blake, Thomas B., assignor.)
- Vance, Jesse L., Pomona, Calif. Gas-burner. No. 1,385,509; July 26; v. 288; p. 672.
- Vance, Owen E., and P. S. Baker, Muscatine, Iowa. Automatic cooking-machine. No. 1,385,330; July 19; v. 288; p. 558.
- Vance, Walter N., Chicago Heights, assignor to Durand Steel Locker Company, Chicago, Ill. Metal shelving. No. 1,375,869; Apr. 26; v. 285; p. 615.
- Van Cleve, Raymond M. (See Robinson, H. E., and Van Cleve.)
- Van Cott, Clifton, Cold Spring Harbor, N. Y. Outside brake. No. 1,380,274; May 31; v. 286; p. 997.
- Van Cott, Frank J., Unadilla, N. Y. Silo-door-fastening device. No. 1,400,250; Dec. 13.
- Van Cott, Frank J., Unadilla, N. Y. Silo structure and anchoring system therefor. No. 1,400,251; Dec. 31.
- Vandenbergh, Clarence E., Cherrygrove, Pa. Wrench. No. 1,396,981; Nov. 15.
- Van den Broeck, William, London, England. Cinematograph and safety device therefor. No. 1,380,756; June 7; v. 287; p. 82.
- Vanderbeek, Herbert, Canton, Ohio. Signaling device. No. 1,377,161; May 3; v. 286; p. 149.
- Vanderbeek, Herbert, assignor to The Timken-Detroit Axle Company, Detroit, Mich. Driving mechanism for motor-vehicles. No. 1,367,642; Feb. 8; v. 283; p. 208.
- Vanderbeek, Herbert, assignor to The Timken-Detroit Axle Company, Detroit, Mich. Oil-closure for shaft-bearings. No. 1,370,861; Mar. 8; v. 284; p. 255.
- Van der Bijl, Hendrik J., assignor to Western Electric Company, Incorporated, New York, N. Y. Photo-electric translating device. No. 1,369,764; Feb. 22; v. 283; p. 707.
- Vanderbilt, Cornelius, Jr., New York, N. Y. Shoe-polishing device. No. 1,368,078; Feb. 8; v. 283; p. 290.
- Vanderbilt, Farley D., Seneca Falls, N. Y., assignor, by mesne assignments, to Deere & Company, Moline, Ill. Fertilizer-distributor. No. 1,366,709; Jan. 25; v. 282; p. 645.
- Vandercok, Robert O., Evanston, Ill. Ink-distributing attachment for platen printing-presses. No. 1,381,948; June 21; v. 287; p. 420.
- Vandercok, Robert O., Evanston, Ill. Non-slip driving means. No. 1,399,329; Dec. 6.
- Vanderdonck, Alphonse, Brooklyn, N. Y. Line-holding device. No. 1,372,789; Mar. 29; v. 284; p. 788.
- Van der Eerden, Wilhelmus J. J., Rotterdam, Netherlands. Control-clock. No. 1,364,966; Jan. 11; v. 282; p. 221.
- Vandergrift Box Company. (See Penner, J. F., and Lansberry, assignors.)
- Van Der Heyden, a Hauzeur, Louis, *et al.* (See Cloetens, Georges, assignor.)
- Vanderlip, Louis C., Elkhart, Ind. Vehicle steering mechanism. No. 1,395,314; Nov. 1.
- Vanderlip, Louis C., Elkhart, Ind. Vehicle steering mechanism. No. 1,396,078; Nov. 8.
- Vanderpool, William, Springfield, Ohio. Clamp for vulcanizing-molds. No. 1,380,854; June 7; v. 287; p. 102.
- Vander Putten, John R., assignor to The Wise-McClung Manufacturing Company, New Philadelphia, Ohio. Switch-actuating device for electric carpet-sweepers. No. 1,391,501; Sept. 20; v. 290; p. 546.
- Van der Schaaff, Ate, Utrecht, Netherlands. Typewriter. No. 1,368,865; Feb. 15; v. 283; p. 493.
- Vander Slik, Thomas P., assignor of one-half to J. Baker, Kalamazoo, Mich. Antislip device. No. 1,370,245; Mar. 1; v. 284; p. 93.
- Van der Straeten, Ivan, Liege, Belgium. Trolley-head. No. 1,393,254; Oct. 11.
- Vander Veer, Benjamin B. (See Linden, John J., assignor.)
- Vanderveer, Jewell W., Syracuse, N. Y. Sectional hollow cast-metal spoke-wheel. No. 1,369,368; Feb. 22; v. 283; p. 629.
- Vandervell, Charles A. (See Midgley, Albert H., assignor.)
- Van Der Vorn, Jacob, Chicago, Ill. Boring-bar. No. 1,400,642; Dec. 20.
- Vander Wee, George R., Detroit, Mich. Forming saw-teeth. No. 1,371,008; Mar. 8; v. 284; p. 283.
- Van der Wyk, Sally, Milwaukee, Wis. Towel-dispensing device. No. 1,386,814; Aug. 9; v. 289; p. 241.
- Van Deusen, Annie P., administratrix. (See Van Deusen, MacArthur.)
- Van Deusen, MacArthur, deceased, Midland Park, N. J.; A. P. Van Deusen, administratrix. Lacing-eyelet. No. 1,381,949; June 21; v. 287; p. 421.
- Van Deusen, MacArthur, deceased, Midland Park, N. J.; A. P. Van Deusen, administratrix. Tie attachment for shoes. No. 1,381,950; June 21; v. 287; p. 421.
- Vandevelde, Paul V., Corona, N. Y. Burglar-alarm. No. 1,399,170; Dec. 6.
- Van Deventer, George. (See Fechner, E., and Van Deventer.)
- Van Deventer, H. R. (See Stimson, Claude J., assignor.)
- Van Deventer, Harry R., assignor to Splittorf Electrical Company, Newark, N. J. Ignition device for internal-combustion engines. No. 1,370,934; Mar. 8; v. 284; p. 269.
- Van Deventer, James E. (See Swank, L., and Van Deventer, assignors.)
- Van Doorn, Anthonius M., assignor to American Thermophone Company, Boston, Mass. Making thermophone elements. No. 1,394,454; Oct. 18.
- Van Dorn, Herbert E., Chicago, Ill. Draft-gear. No. 1,380,443; June 7; v. 287; p. 23.
- Van Dorn Iron Works Company, The. (See Barker, Percy E., assignor.)
- Van Dorn, William E., Cambridge, Mass. Ventilating-flooring for railway-cars. No. 1,364,660; Jan. 4; v. 282; p. 118.
- Van Dresar, Elmer L., St. Paul, Minn. Tie-plate rail-anchor. No. 1,398,473; Nov. 29.
- Van Dusen, Floyd, *et al.* (See Smith, Adelbert, assignor.)
- Van Dyke, Elias, Columbus, Ohio. Refrigerator. No. 1,400,643; Dec. 20.
- Van Eps, Fred F., Plainfield, N. J. Banjo. No. 1,364,466; Jan. 4; v. 282; p. 82.
- Van Etten, Frank C., Chicago, Ill. Portable drafting outfit. No. 1,390,181; Sept. 6; v. 290; p. 125.
- Van Etten, William V., Langley Prairie, British Columbia, Canada. Wheelbarrow. No. 1,377,946; May 10; v. 286; p. 357.
- Van Etten, William V., Bellingham, Wash. Seed separator and grader. No. 1,385,957; July 26; v. 288; p. 762.
- Van Fleet, Elon J., Joliet, assignor to W. E. Pratt, Chicago, Ill. Jack-lever connection. No. 1,396,901; Nov. 15.
- Van Fleet, Frederick W., Toledo, Ohio. Frame for window-screens and making same. No. 1,385,958; July 26; v. 288; p. 762.
- Van Fleet, Lee, Parkersburg, Iowa. Chair. No. 1,391,222; Sept. 20; v. 290; p. 489.
- Van Fleet, Paul, Detroit, Mich. Knee-protector. No. 1,372,790; Mar. 29; v. 284; p. 788.
- Van Fleming, C. (See Ferguson, Edward E., assignor.)
- Van Fossen, Isaiah C., assignor of one-half to H. A. Deuel, Pueblo, Colo. Spike-making machine. No. 1,400,392; Dec. 13.
- Van Gelder, Mozes, Chicago, Ill. Mattress. No. 1,389,715; Sept. 6; v. 290; p. 31.
- Van Gilder, Lincoln, Ventnor, N. J. Valve-box. No. 1,377,105; May 3; v. 286; p. 138.
- Van Gorder, Winfred H., Brooklyn, and C. E. A. Gronbeck, Woodhaven, N. Y. Safety-razor. No. 1,370,935; Mar. 8; v. 284; p. 269.
- Van Guelpen, Louis J., Cincinnati, Ohio. Finishing the edges of flexible material. No. 1,377,643; May 10; v. 286; p. 297.
- Van Guelpen, Louis J., Cincinnati, Ohio. Inking-machine. No. 1,398,407; Nov. 29.
- Van Heusen, John M. (See Bolton, John B., assignor.)



## Alphabetical list of patentees—Continued.

- Van Heusen, John M., Jamaica Plain, Mass. Collar. No. 1,397,261; Nov. 15.
- Van Hoose, Clyde. (See Jones, Phillip D., assignor.)
- Van Hoose, Lucy R., Rome, Ga. Wheeled motorcycle attachment. No. 1,382,942; June 28; v. 287; p. 662.
- Van Horn, George T., Nutley, N. J. Door-operator. No. 1,388,533; Aug. 23; v. 289; p. 691.
- Van Horn, Vandiver J., Chicago, Ill. Tally-tablet. No. 1,368,467; Feb. 15; v. 283; p. 415.
- Van Horn, Vandiver J., Chicago, Ill. Lubricant-testing machine. No. 1,386,214; Aug. 2; v. 289; p. 51.
- Van Hove, Desire H., assignor to The Jackson Cushion Spring Company, Jackson, Mich. Foundation for spring structures. No. 1,378,921; May 24; v. 286; p. 668.
- Van Hove, Desire H., assignor to Reynolds Spring Company, Jackson, Mich. Spring structure. No. 1,387,743; Aug. 16; v. 289; p. 477.
- Van Hove, Desire H., assignor to The Reynolds Spring Company, Jackson, Mich. Spring structure. No. 1,387,744; Aug. 16; v. 289; p. 478.
- Van Huele, Maxime L. (See Grunig, F., and Van Huele.)
- Van Huele, Maxime L., New York, N. Y. Adjustable hat-lining or bandeau. No. 1,393,652; Oct. 11.
- Van Kannel, Theophilus, New York, N. Y. Multiform amusement-wheel. No. 1,371,528; Mar. 15; v. 284; p. 448.
- Van Kirk, Arthur C., Middletown, Ohio. Filler for pulp-machines. No. 1,371,278; Mar. 15; v. 284; p. 398.
- Van Korlaar, Wynand, Grand Rapids, Mich. Penholder. No. 1,377,947; May 10; v. 286; p. 357.
- Van Kuren, Stephen J., assignor to J. G. Cherry Company, Cedar Rapids, Iowa. Churn-timer. No. 1,371,454; Mar. 15; v. 284; p. 433.
- Van Kuren, Stephen J., assignor to J. G. Cherry Company, Cedar Rapids, Iowa. Churn-timer. No. 1,371,455; Mar. 15; v. 284; p. 433.
- Van Lynden, Robert A. Baron. (See De Lange, P., and Van Lynden.)
- Van Lynden, Robert A. Baron, Utrecht, Netherlands, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Telephone and microtelephone. No. 1,386,744; Aug. 9; v. 289; p. 226.
- Van Lynden, Robert Aernout Baron, Utrecht, Netherlands, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Thermic telephone. No. 1,389,230; Aug. 30; v. 289; p. 883.
- Van Melsen, John H., Worcester, Mass. Egg holder and opener. No. 1,372,111; Mar. 22; v. 284; p. 615.
- Van Meter, James W., San Francisco, Calif. Producing poisonous gases. No. 1,399,829; Dec. 13.
- Van Meter, James W., San Francisco, Calif. Chlorination apparatus. No. 1,400,107; Dec. 13.
- Van Meter, James W., San Francisco, Calif. Apparatus for chlorin control. No. 1,400,393; Dec. 13.
- Van Meter, James W., San Francisco, Calif. Diffusing and disseminating poisonous gases. No. 1,401,292; Dec. 27.
- Van Meter, James W., San Francisco, Calif. Portable chlorin-dispenser. No. 1,401,293; Dec. 27.
- Van Meter, James W., assignor to G. Moore, San Francisco, Calif. Peroxide apparatus. No. 1,368,079; Feb. 8; v. 283; p. 291.
- Van Meter, Solomon L., Jr., Lexington, Ky. Safety device for aeronautical machines. No. 1,386,815; Aug. 9; v. 289; p. 241.
- Van Ness, Henry E., Elmira, N. Y. Soldering device for fuse-sockets. No. 1,390,315; Sept. 13; v. 290; p. 244.
- Van Ness, Henry E., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,375,870; Apr. 26; v. 285; p. 615.
- Van Nostrand, Charles H., Orange, and H. E. Schulze, Jersey City, N. J.; said Schulze assignor to said Van Nostrand. Fibrous filtering-film. No. 1,389,401; Aug. 30; v. 289; p. 917.
- Van Nostrand, Charles H., Orange, and H. E. Schulze, Jersey City, N. J.; said Schulze assignor to said Van Nostrand. Making fibrous filtering films. No. 1,392,989; Oct. 11.
- Van Nostrand, Charles L., St. Joseph, Mo. Self-closing and locking joint for structural elements. No. 1,367,643; Feb. 8; v. 283; p. 208.
- Van Oosterwyck, Jean, Louvain Ans, Belgium. Water-tube boiler. No. 1,398,943; Nov. 29.
- Vanorio, Joseph. (See Rapp, J. W., and Vanorio.)
- Van Orsdale, Allen A., Philadelphia, Pa., assignor to C. Saner. Lubricator. No. 1,401,835; Dec. 27.
- Van Orsdale, Allen A., Philadelphia, Pa., assignor to C. Saner. Lubricator. No. 1,401,836; Dec. 27.
- Van Patten, Louis C., and J. B. Wolfe, assignors to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Rotary-rod weeder. No. 1,375,871; Apr. 26; v. 285; p. 615.
- Van Patten, Louis C., and J. B. Wolfe, assignors to Rotary Rod Weeder and Manufacturing Company, Incorporated, Cheney, Wash. Rotary-rod weeder. No. 1,393,055; Oct. 11.
- Van Poelvoorde, Pieter J., Weltevreden, Batavia, Dutch East Indies. Hydraulic ship's armor. No. 1,375,335; Apr. 19; v. 285; p. 481.
- Van Raalte, Arthur, assignor to Van Raalte Company, Inc., New York, N. Y. Glove. No. 1,374,257; Apr. 12; v. 285; p. 211.
- Van Raalte Company. (See Van Raalte, Arthur, assignor.)
- Van Range, John, Company, The. (See Kaiser, Louis H., assignor.)
- Van Ranst, Cornelius W., New Rochelle, N. Y. Apparatus and method for casting. No. 1,385,595; July 26; v. 288; p. 689.
- Van Sandt, Ray, Bakersfield, and W. T. Williams, Taft, assignors of sixty per cent. to W. C. Rae, Pasadena, Calif. Insulated electrode. No. 1,390,819; Sept. 13; v. 290; p. 345.
- Van Sant, William S., assignor of one-third to E. N. McCutcheon and one-third to E. M. Hiatt, Oakland, Calif. Ice-scraper. No. 1,380,757; June 7; v. 287; p. 82.
- Van Seiver, Josiah H., assignor to Automobile Appliances Co., Philadelphia, Pa. Automobile-signal. No. 1,385,596; July 26; v. 288; p. 689.
- Van Senus, Francis, Moline, Ill. Match-box holder. No. 1,381,522; June 14; v. 287; p. 279.
- Vansickle, Fred M., Lewiston, Idaho. Illuminated sign. No. 1,389,799; Sept. 6; v. 290; p. 48.
- Vansickle, Fred M., Lewiston, Idaho. Sanitary seat-cover. No. 1,396,480; Nov. 8.
- Van Sickle, James A., Reardon, Wash. Tool-supporter. No. 1,368,377; Feb. 15; v. 283; p. 397.
- Van Sickle, Orson R., Toledo, Ohio. Rail tie and clamp. No. 1,381,145; June 14; v. 287; p. 210.
- Van Sluys, Adolph C. (See Decker, J., and Van Sluys.)
- Van Sluys, Adolph C., assignor to Nashua Gummed and Coated Paper Company, Nashua, N. H. Method of and apparatus for breaking the dried coating on sheet material. No. 1,368,080; Feb. 8; v. 283; p. 291.
- Van Syckle, Cecil E., Lakewood, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio. Scraper attachment for unloader-buckets. No. 1,394,699; Oct. 25.
- Van Tassell, Park A., Oakland, Calif. Mechanical toy. No. 1,369,504; Feb. 22; v. 283; p. 655.
- Van Trump, William R., Philadelphia, Pa. Engine-overhauling stand. No. 1,387,566; Aug. 16; v. 289; p. 442.
- Van Tuyl, John F., Minneapolis, Minn. Reversing-gear for internal-combustion engines. No. 1,391,706; Sept. 27; v. 290; p. 660.
- Van Tuyl, Thomas. (See Cook, A. E., and Van Tuyl.)
- Van Valkenburg, Burt R., Oakland, assignor to American Photo Player Company, Berkeley, Calif. Valve-timing device. No. 1,378,154; May 17; v. 286; p. 449.
- Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. Controller for electric motors. No. 1,373,846; Apr. 5; v. 285; p. 99.
- Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. System of motor control. No. 1,391,808; Sept. 27; v. 290; p. 680.
- Van Valkenburg, Hermon L., assignor to Industrial Controller Company, Milwaukee, Wis. Switch-mounting. No. 1,391,809; Sept. 27; v. 290; p. 680.
- Van Valkenburg, L. D. (See Halket, William, assignor.)
- Van Vechten, Edwin F., Milwaukee, Wis. Display mechanism. No. 1,401,379; Dec. 27.
- Van Velsen, Charles. (See Van Cappelle, Herman, assignor.)
- Van Vleck, Peirce, and H. Cooper, assignors to W. H. Peirce, Baltimore, Md. Compressor. No. 1,373,924; Apr. 5; v. 285; p. 106.
- Van Vleck, Peirce, and H. Cooper, assignors to W. H. Peirce, Baltimore, Md. Engine. No. 1,385,027; July 19; v. 288; p. 497.
- Van Vleck, Peirce, and H. Cooper, assignors to W. H. Peirce, Baltimore, Md. Compound engine. No. 1,385,028; July 19; v. 288; p. 498.
- Van Vleet, Charles W., assignor of one-third to R. C. Riddick, Kingston, and one-third to C. A. Maxwell, Saugerties, N. Y. Game apparatus. No. 1,382,695; June 28; v. 287; p. 613.
- Van Vleet, Charles W., assignor of one-third to R. C. Riddick, Kingston, and one-third to C. A. Maxwell, Saugerties, N. Y. Projectile-throwing device for game apparatus. No. 1,382,696; June 28; v. 287; p. 615.
- Van Vleet, Roy M., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric generating system. No. 1,389,716; Sept. 6; v. 290; p. 31.
- Van Voast, George K., assignor to Amsterdam Broom Company, Amsterdam, N. Y. Whisk-broom. No. 1,398,210; Nov. 22.
- Van Wessem, Jan C. (See Schouten, Frans K. L., assignor.)
- Van Wickle, Edward, New York, N. Y. Blank book with ruler. No. 1,372,324; Mar. 22; v. 284; p. 657.
- Van Wie, Edwin G., Detroit, Mich. Priming-cup. No. 1,372,165; Mar. 22; v. 284; p. 625.
- Van Wormer, Myron H. (See Truesdell, H. G., and Van Wormer.)
- Van Wye, Garry P., New York, N. Y. Oil-stove. No. 1,373,540; Apr. 5; v. 285; p. 31.
- Vapor Car Heating Company. (See Russell, E. A., and Schreiber, assignors.)
- Vapor Car Heating Company. (See Schwartz, Carl, assignor.)
- Vardell, Arthur A., deceased, Dallas, Tex.; H. G. Vardell, executrix. Mechanism for removing useful fiber from seeds. No. 1,375,985; Apr. 26; v. 285; p. 637.
- Vardell, Arthur A., deceased, H. G. Vardell, executrix, Dallas, Tex. Mechanism for removing useful fiber from seeds. No. 1,375,986; Apr. 26; v. 285; p. 637.
- Vardell, Highland G., executrix. (See Vardell, Arthur A.)
- Varder, Holger, New York, N. Y. Train-bumper. No. 1,368,002; Feb. 8; v. 283; p. 276.



- Vargas, Ramón O., Torrelavega, Spain. Wheel for motor-vehicles and the like. No. 1,382,943; June 28; v. 287; p. 662.
- Varian, Howard M., Detroit, Mich. Boiler-tube cleaner. No. 1,375,123; Apr. 19; v. 285; p. 441.
- Variell, Arthur D., Waterbury, Conn. Chair-tip. No. 1,378,738; May 17; v. 286; p. 560.
- Variety Manufacturing Company. (See Buell, Charles H., assignor.)
- Varley, Cromwell H., Chilworth Hill, near Guildford, England. Rotary engine or pump. No. 1,378,965; May 17; v. 286; p. 432.
- Varley Duplex Magnet Company. (See Anderson, James C., assignor.)
- Varley Duplex Magnet Company. (See Varley, Richard, assignor.)
- Varley, Richard, Englewood, N. J., assignor to Varley Duplex Magnet Company. Lighting system for automobiles. No. 1,380,275; May 31; v. 286; p. 997.
- Varley, Thomas W., New York, N. Y. Electric pyrometer. No. 1,375,872; Apr. 26; v. 285; p. 615.
- Varley, Thomas W., and W. C. Nein, New York, N. Y. Railway-crossing signal. No. 1,390,067; Sept. 6; v. 290; p. 103.
- Varley, Thomas W., and W. C. Nein, New York, N. Y. Crossing-signal. No. 1,390,068; Sept. 6; v. 290; p. 103.
- Varley, Thomas W., and W. C. Nein, New York, N. Y. Automatic train control. No. 1,397,024; Nov. 15.
- Varner, Andrew E. (See Belk, F. W., and Varner.)
- Varner, Andrew E., Oxford, Miss. Colter-clamp. No. 1,367,644; Feb. 8; v. 283; p. 208.
- Varner, Joseph W. (See Wagoner, W. M., and Varner.)
- Varnum, George B., Los Angeles, Calif. Gate-engine. No. 1,367,931; Feb. 8; v. 283; p. 263.
- Vasey, Joseph N., Brookfield, and B. R. Kiessig, assignors to Vocaltone-Pianotina Company, Chicago, Ill. Musical instrument of the string type. No. 1,383,500; July 5; v. 283; p. 50.
- Vasger, Fred, Philadelphia, Pa. Quick-attaching curtain-pole and shade-roller. No. 1,370,862; Mar. 8; v. 284; p. 256.
- Vass, Harry, Summit, N. J. Flying-machine. No. 1,386,916; Aug. 9; v. 289; p. 262.
- Vass, Joseph, Sharpville, Pa. Rail-joint. No. 1,388,445; Aug. 23; v. 289; p. 674.
- Vassau, Vernon A., Willow City, N. D. Movable partition for stock-cars. No. 1,399,908; Dec. 13.
- Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Method of and apparatus for bending tubes. No. 1,370,074; Mar. 1; v. 284; p. 60.
- Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Tube-bending apparatus. No. 1,370,075; Mar. 1; v. 284; p. 60.
- Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Spring-motor. No. 1,379,140; May 24; v. 286; p. 709.
- Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Tubular joint. No. 1,379,141; May 24; v. 286; p. 710.
- Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to The Harriman National Bank of the City of New York, trustee. Automatic release and brake mechanism for talking-machines. No. 1,395,752; Nov. 1.
- Vasselli, Anthony, Newark, N. J., assignor, by mesne assignments, to General Phonograph Corporation, New York, N. Y. Turntable for talking-machines. No. 1,399,171; Dec. 6.
- Vasselon, Marius, St. Etienne, France. Gas-radiator. No. 1,375,987; Apr. 26; v. 285; p. 637.
- Vasseur, Lucien E., and M. Tchoubritsch, Viroflay, France. Antisplash-guard for motor-vehicles. No. 1,377,035; May 3; v. 286; p. 125.
- Vassiliadi, Hector, London, England. Mechanical under-feed stoker. No. 1,371,529; Mar. 15; v. 284; p. 448.
- Vastola, Charles A., Waterbury, Conn. Phonograph-record cabinet. No. 1,397,940; Nov. 22.
- Vatter, Henry, Jr., Shreveport, La. Motor-bearing-burning-in stand. No. 1,386,035; Aug. 2; v. 289; p. 15.
- Vauclain, Andrew C. (See Vauclain, Jacques L. and A. C.)
- Vauclain, Jacques L., Haverford, and A. C. Vauclain, Philadelphia, Pa. Fastener for wheel-hub caps. No. 1,382,577; June 21; v. 287; p. 539.
- Vaudreuil, Edward J., Eau Claire, Wis. Apparatus for separating tip ends of bean-pods. No. 1,364,222; Jan. 4; v. 282; p. 34.
- Vaudreuil, Edward J., Eau Claire, Wis. Apparatus for blanching or cooking vegetables. No. 1,374,340; Apr. 12; v. 285; p. 226.
- Vaudreuil, Edward J., Eau Claire, Wis. Blanching or cooking vegetables. No. 1,374,341; Apr. 12; v. 285; p. 227.
- Vaudreuil, John, Milwaukee, Wis. Spray. No. 1,390,069; Sept. 6; v. 290; p. 103.
- Vaugeois, Alexander. (See Earle, H. M., Vaugeois, and Caston.)
- Vaughan, Alexander S., Oak Park, Ill. Tool-handle-holding means. No. 1,399,172; Dec. 6.
- Vaughan, Charles F., London, England. Lamp and lamp-holder. No. 1,387,523; Aug. 16; v. 289; p. 433.
- Vaughan, David F., Riverton, N. J. Spool. No. 1,396,481; Nov. 8.
- Vaughan, David L., Riverton, N. J. Anticreeper. No. 1,367,901; Feb. 8; v. 283; p. 257.
- Vaughan, David L., Riverton, N. J. Card game. No. 1,390,659; Sept. 13; v. 290; p. 314.
- Vaughan, Elmo, Cincinnati, Ohio. Spectacle-clip. No. 1,377,862; May 10; v. 286; p. 341.
- Vaughan, Francis E., Salt Lake City, Utah. Surveying instrument. No. 1,401,380; Dec. 27.
- Vaughan, Harry L., Chicago, Ill. Bottle-capper. No. 1,366,755; Jan. 25; v. 282; p. 654.
- Vaughan, Jay W., Chicago, Ill. Band-saw. No. 1,392,990; Oct. 11.
- Vaughan, Robert B., and R. M. Love, Dallas, Tex. Storage-house-aerating system. No. 1,365,571; Jan. 11; v. 282; p. 338.
- Vaughan, William T. (See Williams, George J., assignor.)
- Vaughn, Fred S., assignor to Automatic Gas Power Company, Quincy, Ill. Fluid-pressure system. No. 1,396,482; Nov. 8.
- Vaughn, Joseph D., Salt Lake City, Utah. Slicing-machine. No. 1,397,469; Nov. 15.
- Vaughn, Samuel C., Charlotte, N. C. Exhibiting device. No. 1,375,619; Apr. 19; v. 285; p. 535.
- Vaughn-Upton Company. (See Upton, Henry J., assignor.)
- Vautrain, Charles E., Holyoke, Mass. Color-chart. No. 1,391,286; Sept. 20; v. 290; p. 502.
- Veasey, William R., Cleveland, Ohio, assignor to The Dow Chemical Company, Midland, Mich. Manganese-magnesium alloy and making same. No. 1,377,374; May 10; v. 286; p. 247.
- Veazey, William R. (See Smith, A. W., and Veazey.)
- Veazey, William R., Cleveland, Ohio, assignor to The Dow Chemical Company, Midland, Mich. Treating light-metal alloys. No. 1,374,968; Apr. 19; v. 285; p. 410.
- Veazie, Bernard S. (See Unger, M. Zarro, and Veazie.)
- Veeder, Albert L., Idaho Falls, Idaho. Haystacker. No. 1,392,991; Oct. 11.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Tachometer. No. 1,379,947; May 31; v. 286; p. 935.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Counting-machine. No. 1,385,408; July 26; v. 288; p. 650.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Counting-machine. No. 1,385,409; July 26; v. 288; p. 650.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Counting-machine. No. 1,385,410; July 26; v. 288; p. 651.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Register. No. 1,394,455; Oct. 18.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Register, &c. No. 1,399,417; Dec. 6.
- Veeder Manufacturing Company, The. (See Crosby, Edward H., assignor.)
- Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)
- Veenschoten, Vincent V., Erie, Pa. Feed-water-regulator valve. No. 1,368,978; Feb. 15; v. 283; p. 513.
- Veenschoten, Vincent V., Erie, Pa. Fluid-pressure system. No. 1,396,237; Nov. 8.
- Veenschoten, Vincent V., Erie, Pa. Fluid-pressure system. No. 1,399,280; Dec. 6.
- Veenschoten, Vincent V., Erie, Pa. Feed-water regulator. No. 1,399,281; Dec. 6.
- Veenschoten, Vincent V., Erie, Pa. Indicating mechanism for spring-motors. No. 1,400,644; Dec. 20.
- Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Feed-water-regulator valve. No. 1,384,414; July 12; v. 288; p. 289.
- Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Chain grate. No. 1,401,211; Dec. 27.
- Veilleux, Louis, P. H. Leveque, and J. Barnes, New Bedford, Mass. Thread-tensioning means. No. 1,393,926; Oct. 18.
- Veitch, Fletcher P. (See Sterling, W. F., Grotisch, and Veitch.)
- Veitch, Thomas. (See Perez, H. L., and Veitch.)
- Veith, Bernard, *et al.* (See Hachmann, Frederick, assignor.)
- Velasco, José R., assignor of one-half to A. Freydzig, Nogales, Ariz. Game. No. 1,370,171; Mar. 1; v. 284; p. 79.
- Velazquez, José, Cárdenas, Cuba. Burner for petroleum or similar fuels. No. 1,381,370; June 14; v. 287; p. 251.
- Veljo, John, assignor of one-third to C. A. Harpman, Youngstown, Ohio. Combination pneumatic casing. No. 1,377,375; May 10; v. 286; p. 247.
- Vellema, Peter. (See Corbin, H. H., and Vellema.)
- Velo, Anthony C. (See Trinca, Frederick, assignor.)
- Velox Vise Co. (See Fulton, Edwin W., assignor.)
- Veltung, Ernest, New York, N. Y., assignor to Veltung Steel Tire Company. Resilient-tire construction. No. 1,373,370; Mar. 29; v. 284; p. 903.
- Veltung Steel Tire Company. (See Veltung, Ernest, assignor.)



*Alphabetical list of patentees—Continued.*

- Velvet Rubber Company. (See Netzel, Frank M., assignor.)
- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Cableway-carriage mechanism. No. 1,373,541; Apr. 5; v. 285; p. 32.
- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Excavating mechanism. No. 1,376,053; Apr. 26; v. 285; p. 650.
- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Hoisting-derrick. No. 1,376,054; Apr. 26; v. 285; p. 651.
- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Excavating-bucket. No. 1,380,444; June 7; v. 287; p. 23.
- Venable, William M., Pittsburgh, Pa., assignor to Blaw-Knox Company. Excavating-bucket. No. 1,398,479; Nov. 29.
- Venard, William A., deceased, Oilfields, Calif.; W. F. Venard, administrator. Map-hanger for automobiles and the like. No. 1,364,223; Jan. 4; v. 282; p. 34.
- Venard, William F., administrator. (See Venard, William A.)
- Vends-Ads Co. (See Chandler, Daniel L., assignor.)
- Venezia, Nestor. (See Puiggari, M., and Venezia.)
- Venn, Henry L., Oak Park, Ill. Die and head therefor. No. 1,383,177; June 28; v. 287; p. 706.
- Venne, Julius, Deer River, Minn. Car-stake. No. 1,373,277; Mar. 29; v. 284; p. 885.
- Ventress, Robert E., Sr., Mobile, Ala. Hydroplane. No. 1,397,470; Nov. 15.
- Venugraph Company, The. (See Venuti, P. B., and Arnold, assignors.)
- Venus Manufacturing Company. (See Milkes, Leah G., assignor.)
- Venuti, Peter B., and C. H. Arnold, assignors to The Venugraph Company, Dayton, Ohio. Multiple-view camera. No. 1,393,411; Oct. 11.
- Verchak, Joseph, Nutter Fort, W. Va. Ship-raising device. No. 1,384,931; July 19; v. 288; p. 477.
- Vercoutere, Louis, Pittsburg, Kans. Cutter. No. 1,369,581; Feb. 22; v. 283; p. 670.
- Verdin, Kappes & Verdin, The. (See Kappes, William H., assignor.)
- Verdy, Louis F., Pleasantville, Ind. Mining-drill device. No. 1,383,041; June 28; v. 287; p. 681.
- Vergniaud, Louis, Paris, France, assignor to Corporation said: Etablissements Jacob Holtzer. Process and apparatus for drying crucibles. No. 1,373,688; Apr. 5; v. 285; p. 60.
- Vergniaud, Louis, assignor to Etablissements Jacob Holtzer, Paris, France. Process and apparatus for the manufacture of crucibles. No. 1,392,541; Oct. 4.
- Verhunce, Charles E., assignor to R. Williamson & Co., Chicago, Ill. Portable gas-lighting outfit. No. 1,379,372; May 24; v. 286; p. 753.
- Vericel, Antoine, assignor to Vericel, Inc., New York, N. Y. Vanity-box. No. 1,381,036; June 7; v. 287; p. 137.
- Vericel, Inc. (See Vericel, Antoine, assignor.)
- Verloove, Edmond, Bad Axe, Mich. Automobile-bumper. No. 1,394,238; Oct. 18.
- Vermaes, Stefanus J., Delft, assignor to Syndicaat Electro-Staal, The Hague, Netherlands. Rotary kiln. No. 1,401,212; Dec. 27.
- Vermont Farm Machine Corporation. (See Hay, James J., assignor.)
- Verner, Eyvind M., et al. (See Anderson, Albin E., assignor.)
- Vernet, François E. B., assignor to Compagnie Generale de Travaux d'Eclairage et de Force (Anciens Etablissements Clémancey) Paris, France. Electric heater having heating fabrics. No. 1,374,693; Apr. 12; v. 285; p. 296.
- Vernon, Percy V., Keresley, England. Appliance for determining the hardness of materials. No. 1,369,993; Mar. 1; v. 284; p. 45.
- Verow, George W. (See Little, A. L., and Verow.)
- Verplex Art Company. (See Steedman, Henry P. G., assignor.)
- Verran, H. E., Company. (See Verran, H. E., and Clauss, assignors.)
- Verran, Harry E., and M. O. Clauss, New York, N. Y., assignors to H. E. Verran Company. Skinning-machine. No. 1,365,641; Jan. 11; v. 282; p. 351.
- Verran, Harry E., and M. O. Clauss, New York, N. Y., assignors to H. E. Verran Company. Binding device for skinning-machines. No. 1,381,679; June 14; v. 287; p. 309.
- Verstraete, Edmond, Belleville, N. J. Kitchen-tool. No. 1,364,332; Jan. 4; v. 282; p. 55.
- Verstraete, Edmond, Belleville, N. J. Electric heater. No. 1,376,485; May 3; v. 286; p. 20.
- Verstraete, Edmond, Belleville, N. J. Sofa-bed. No. 1,383,501; July 5; v. 288; p. 50.
- Vesely, Stanley J., Cedar Rapids, Iowa. Shock-absorber. No. 1,384,545; July 12; v. 288; p. 316.
- Vessey, Ernest A., Farnborough, England. Screw-propeller. No. 1,365,132; Jan. 11; v. 282; p. 253.
- Vessey, Ralph B., and A. Schmidt, assignors to Champion Ignition Company, Flint, Mich. Electric terminal. No. 1,391,810; Sept. 27; v. 290; p. 680.
- Vest, Charles O., Bluefield, W. Va. Journal jack-block and wheel-clamp. No. 1,382,332; June 21; v. 287; p. 491.
- Vest, James M., Dehue, W. Va. Loading apparatus. No. 1,389,021; Aug. 30; v. 289; p. 842.
- Vestine, Andrew O., Watertown, assignor to L. C. Chase & Company, Boston, Mass. Liquid-fuel burner. No. 1,397,389; Nov. 15.
- Vetter, Philip J. C., Brooklyn, N. Y. Clothesline-bracket. No. 1,394,239; Oct. 18.
- Veze, Francis B. L., Portland, Ore. Towel-holder. No. 1,369,310; Feb. 22; v. 283; p. 617.
- Vezie, Melbourne E., Cement, Okla. Burner. No. 1,374,045; Apr. 5; v. 285; p. 129.
- Viani, Ettore, Milan, Italy. Ignition-magneto for internal-combustion engines. No. 1,366,222; Jan. 18; v. 282; p. 505.
- Viari, Raymond P., assignor of one-half to Charles W. McWane, Lynchburg, Va. Core-forming device. No. 1,373,578; Apr. 5; v. 285; p. 39.
- Viau, René, Varades, France. Safety apparatus for the protection of trains. No. 1,366,613; Jan. 25; v. 282; p. 626.
- Vibber, Wheeler H., assignor of one-half to The Gillette-Vibber Co., New London, Conn. Elbow-fitting for electric installation. No. 1,366,851; Jan. 25; v. 282; p. 673.
- Vibber, Wheeler H., assignor of one-half to The Gillette-Vibber Co., New London, Conn. Elbow-fitting for electric installations. No. 1,369,589; Feb. 22; v. 283; p. 672.
- Vibber, Wheeler H., assignor of one-half to The Gillette-Vibber Co., New London, Conn. Terminal ground-clamp. No. 1,381,770; June 14; v. 287; p. 327.
- Vibber, Wheeler H., assignor of one-half to The Gillette-Vibber Co., New London, Conn. Terminal fitting for electrical installations. No. 1,385,650; July 26; v. 288; p. 701.
- Viberg, Ernest R., Montreal, Quebec, Canada. Brake-beam. No. 1,388,391; Aug. 23; v. 289; p. 663.
- Vibration Specialty Company. (See Akimoff, Nicholas W., assignor.)
- Vibration Specialty Company. (See Torbet, Mayson W., assignor.)
- Vicars, Edward L. (See Vicars, Thomas and E. L.)
- Vicars, Thomas and E. L., Earlstown, England. Web-tightening mechanism. No. 1,386,529; Aug. 2; v. 289; p. 110.
- Vick, Albert F. W., Company. (See Nicholas, Joseph J., assignor.)
- Vick, Elihu, Nailsworth, England. Combined clutch-operating gear and brake mechanism for revolution-stamping presses. No. 1,391,923; Sept. 27; v. 290; p. 704.
- Vick, Henry, Chicago, Ill. Grate-block lock. No. 1,390,816; Sept. 13; v. 290; p. 244.
- Vickers Limited. (See Buckham, George T., assignor.)
- Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
- Vickers Limited. (See Dawson, A. T., and Horne, assignors.)
- Vickers Limited. (See Johnson, Frederick G. L., assignor.)
- Vickers Limited. (See Maxwell-Muller, Percy, assignor.)
- Vickers Limited. (See Pierson, R. K., and Duncan, assignors.)
- Vickers Limited. (See Ryan, Alfred, assignor.)
- Vickers Limited. (See Scarff, Frederick W., assignor.)
- Vickers, Harry H., Corona, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,400,842; Dec. 20.
- Vickers, Ray W., et al. (See Smith, Adelbert, assignor.)
- Vickrey, Benjamin P., Bradley, assignor of one-half to Elmer E. Perkins, Chicago, Ill. Target-trap. No. 1,369,948; Mar. 1; v. 284; p. 37.
- Vickrey, F. A., administrator. (See Mellon, G. H., and Smith.)
- Vickrey, F. A., administrator. (See Mellon, George H.)
- Viconque, Auguste. (See de Groussau, E., and Viconque.)
- Victor Adding Machine Co. (See Johantgen, Oliver D., assignor.)
- Victor, Alexander F., Davenport, Iowa. Rheostat. No. 1,364,967; Jan. 11; v. 282; p. 222.
- Victor Electric Corporation. (See Crawford, William W., assignor.)
- Victor Equipment Co. (See Gallagher, John P., assignor.)
- Victor, Joseph B., assignor to Victor Manufacturing & Gasket Co., Chicago, Ill. Gasket. No. 1,398,612; Nov. 29.
- Victor Manufacturing & Gasket Co. (See Victor, Joseph B., assignor.)
- Victor Saw Works. (See Jackman, C. C., and Squire, assignors.)
- Victor Shoe Machinery Company. (See Erickson, Edward, assignor.)
- Victor Talking Machine Company. (See Burton, Isaac F., assignor.)
- Victor Talking Machine Company. (See Johnson, Eldridge R., assignor.)
- Victor Talking Machine Company. (See Jones, Frederick C., assignor.)
- Victor Talking Machine Company. (See Moyer, William W., assignor.)
- Victor Talking Machine Company. (See Owen, J. W., and Hewitt, assignors.)
- Victor Talking Machine Company. (See Royal, Belford G., assignor.)



*Alphabetical list of patentees—Continued.*

- Victor Tool Company, The. (See Koontz, Victor R., assignor.)
- Victory Typewriter Company. (See Hagerstrom, John A., assignor.)
- Victory Advertising Manufacturing Company, The. (See Mayer, W. I., and Beagle, assignors.)
- Victory Equipment Corporation. (See Robinson, Walter M., assignor.)
- Victory Hammered Piston Ring Company. (See Kistner, Herman, assignor.)
- Victory Motors Company. (See Moore, Chester J., assignor.)
- Viebrock, Carl H. and H. W., Douglas, Wash. Valve-grinder. No. 1,397,390; Nov. 15.
- Viebrock, Henry W. (See Viebrock, Carl H. and H. W.)
- Viehweger, August F. W., Hoboken, assignor of one-half to P. Kronstein, Jersey City, N. J. Circuit-closer for locks. No. 1,391,432; Sept. 20; v. 290; p. 532.
- Viemeister, George A., Brooklyn, assignor of one-quarter to J. N. Catlow, New York, and three-quarters to M. Viemeister, Brooklyn, N. Y. Squirt-can. No. 1,372,053; Mar. 22; v. 284; p. 605.
- Viemeister, Minnie, *et al.* (See Viemeister, George A., assignor.)
- Vierling, Frank J. and A. Kvorning, Minneapolis, assignors to Brown & Bigelow, St. Paul, Minn. Pencil. No. 1,373,278; Mar. 29; v. 284; p. 885.
- Vierling, Frank J., and F. R. Bartholomew, Minneapolis, Minn. Combined whistle and top. No. 1,373,371; Mar. 29; v. 284; p. 903.
- Vierling, Frank J., F. R. Bartholomew, and M. H. Smith, assignors to Sterling Specialties Manufacturing Company, Minneapolis, Minn. Pencil-holder. No. 1,370,172; Mar. 1; v. 284; p. 79.
- Viertel, Jacob G. (See Schindler, B., and Viertel.)
- Vigil, Juan M., Capulin, assignor of one-third to R. L. Carr, Antonio, Colo. Land-leveler and drag. No. 1,368,585; Feb. 15; v. 283; p. 430.
- Vigneault, Alfred J., assignor of one-half to G. N. Vigneault, Worcester, Mass. Indicator for plate-holders. No. 1,384,363; July 12; v. 288; p. 278.
- Vigneault, George N. (See Vigneault, Alfred J., assignor.)
- Vignos, Charles, Canton, Ohio, assignor to The American Mine Door Company. Cable-splice. No. 1,387,334; Aug. 9; v. 289; p. 335.
- Viking Corporation, The. (See Liljegren, Gunnar, assignor.)
- Vilandrer, Anna L., New York, N. Y. Clasp. No. 1,388,495; Aug. 23; v. 289; p. 684.
- Vilardo, Paul. (See Peters, E. M., and Vilardo.)
- Vile, Norman J. (See Needham, W. H., and Vile.)
- Villacorta, José S., San Hdefonso, Bulacan, Philippine Islands. Treating tobacco-leaf. No. 1,401,106; Dec. 20.
- Village, Rowland, Eccleasall, Sheffield, England. Mold for ingots and other heavy steel castings. No. 1,388,534; Aug. 23; v. 289; p. 691.
- Villard, Joseph R., Rochester, N. Y. Auto-signal. No. 1,368,772; Feb. 15; v. 283; p. 475.
- Villaret, Gustave E., New York, N. Y. Lamp. No. 1,390,070; Sept. 6; v. 290; p. 103.
- Villegas, Carlos, Brooklyn, N. Y. Calculator for maturities. No. 1,384,789; July 19; v. 288; p. 448.
- Villeneuve, Archille, Notre Dame de Levis, Quebec, Canada. Level. No. 1,370,567; Mar. 8; v. 284; p. 199.
- Villamo, Mark A., New Castle, Pa. Hopper-car. No. 1,392,371; Oct. 4.
- Villiers, Edward C., Ascot, England. Gearing. No. 1,368,586; Feb. 15; v. 283; p. 439.
- Villiers, Edward C., Ascot, England. Gearing. No. 1,368,587; Feb. 15; v. 283; p. 439.
- Villiger, Victor, and H. von Kränichfeldt, Ludwigshafen-on-the-Rhine, Germany. Green dyestuff and making same. No. 1,396,483; Nov. 8.
- Vilm, Henry, *et al.* (See Miller, William G., assignor.)
- Vincent, Charles. (See Fontaine, A., and Vincent.)
- Vincent, Charles W., Ashley, Pa. Funnel. No. 1,396,606; Nov. 8.
- Vincent, Edward H., Detroit, Mich. Tire-locking device. No. 1,390,402; Sept. 13; vol. 290; p. 261.
- Vincent, Frank S., Grand Rapids, Mich. Extracting gases from liquids. No. 1,398,658; Nov. 29.
- Vincent, George H., Spur, Tex. Cotton-picking device. No. 1,366,436; Jan. 25; v. 282; p. 590.
- Vince, Joseph, Brooklyn, N. Y. Flashlight. No. 1,386,474; Aug. 2; v. 289; p. 99.
- Vincent, Harry H. and J. E., Detroit, Mich. Magazine fuse-plug. No. 1,383,042; June 28; v. 287; p. 681.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,384,283; July 12; v. 288; p. 262.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,384,284; July 12; v. 288; p. 262.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Radiator for motor-vehicles. No. 1,384,285; July 12; v. 288; p. 262.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Pump for motor-vehicles. No. 1,386,816; Aug. 9; v. 289; p. 241.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Clutch. No. 1,393,056; Oct. 11.
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,399,093; Dec. 6.
- Vincent, John G., Tulsa, Okla. Traction-wheel. No. 1,384,170; July 12; v. 288; p. 238.
- Vincent, Joseph, Fresno, Calif. Washing-machine. No. 1,397,886; Nov. 22.
- Vine, Jerry T., assignor of one-half to T. Conroy, Seattle, Wash. Automatic pump control. No. 1,392,372; Oct. 4.
- Vilter Manufacturing Company, The. (See Keller, John G., assignor.)
- Viner, Raymond D., Ogden, Utah. Collapsible bucket. No. 1,385,934; July 26; v. 288; p. 757.
- Vineyard, Pleas E., Windom, Tex. Accelerator for engines. No. 1,384,415; July 12; v. 288; p. 289.
- Vinson, William A., Baltimore, Md. Stringed instrument. No. 1,387,567; Aug. 16; v. 289; p. 442.
- Vinton, John H., Keene, N. H., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Heel-turning-machine block-holder. No. 1,397,844; Nov. 22.
- Violet, René A. I. (See Zahar, Joseph A., assignor.)
- Viollet, Eugène, Limoges, France. Recording apparatus. No. 1,397,710; Nov. 22.
- Viratelle, Marcel N., Villeurbanne, Rhone, France. Compensating spring for the front fork of motorcycles. No. 1,397,845; Nov. 22.
- Virey, Theodore L., Paris, France. Runner and top-notch for umbrellas and sunshades. No. 1,368,306; Feb. 15; v. 283; p. 383.
- Virgens, Fred, Fairmont, Minn. Controlling mechanism for tractors. No. 1,377,448; May 10; v. 286; p. 261.
- Vis, Gerhard N., Paris, France. Splitting double sulfates and washing the split products. No. 1,364,822; Jan. 4; v. 282; p. 149.
- Vis, Gerhard N., Paris, France. Process for transforming free or combined ammonia into ammonium sulfate. No. 1,366,301; Jan. 18; v. 282; p. 520.
- Vis, Gerhard N., Paris, France. Making ammonium sulfate. No. 1,366,302; Jan. 18; v. 282; p. 520.
- Vis, Gerhard N., Paris, France. Preparing pure ammonia from ammonia containing gases. No. 1,366,303; Jan. 18; v. 282; p. 520.
- Vis, Gerhard N. (See Bontemps, A., and Vis.)
- Vischer, Alfred, Jr., assignor to Automatic Projector Company, Inc., New York, N. Y. Dissolving stereopticon. No. 1,365,752; Jan. 18; v. 282; p. 413.
- Viscose Company, The. (See Clayton, James, assignor.)
- Viscose Company, The, *et al.* (See Crewdson, Henry, assignor.)
- Visible Gasoline Filter Company. (See Fell, William, assignor.)
- Visintainer, Felix, Glazier, assignor of one-fourth to W. Lemm, Bellingham, Wash. Treating iron and steel. No. 1,381,771; June 14; v. 287; p. 327.
- Vissering, Harry, and Company. (See Anderson, Harry T., assignor.)
- Vissering, Harry, & Company. (See White, William, assignor.)
- Vitek, Charles, Omaha, Nebr. Clamp. No. 1,382,813; June 28; v. 287; p. 638.
- Vitanola Talking Machine Company. (See Boehnert, Otto, assignor.)
- Vitanola Talking Machine Co. (See Schiff, Henry T., assignor.)
- Vitanola Talking Machine Company. (See Schiff, Samuel L., assignor.)
- Vitrac, Maurice, Paris, France. Mark-buoy for seaways. No. 1,376,055; Apr. 26; v. 285; p. 651.
- Vitrocell Company. (See Massay, John R., assignor.)
- Vitron, Frank, *et al.* (See Flack, Sidney, assignor.)
- Vitron, Joseph, *et al.* (See Flack, Sidney, assignor.)
- Vittorio, Luxa C., Emerson, N. J., assignor to Thomas & Buckley Hoisting Co., New York, N. Y. Brake for electric-motor-operated hoists. No. 1,374,258; Apr. 12; v. 285; p. 211.
- Vittorio, Luxa C., Emerson, N. J., assignor to Thomas & Buckley Hoisting Co., New York, N. Y. Brake for electric-motor-operated hoists. No. 1,374,259; Apr. 12; v. 285; p. 211.
- Vitturo, Marcelino. (See Anselmi, C., and Vitturo.)
- Vivarttas, William O., Weehawken, N. J. Dust-cap for pneumatic tires. No. 1,385,055; July 19; v. 288; p. 503.
- Vivas, Fernando S., assignor of one-half to T. A. Bell, San Francisco, Calif. Fire-proof paint. No. 1,369,857; Mar. 1; v. 284; p. 20.
- Vivas, Fernando S., assignor of one-half to T. A. Bell, San Francisco, Calif. Varnish. No. 1,369,858; Mar. 1; v. 284; p. 20.
- Vivian, Godfrey T. (See Conder, C. M., and Vivian.)
- Viviano, Phillip, St. Louis, Mo. Carbureter. No. 1,373,542; Apr. 5; v. 285; p. 82.
- Viviano, Philip, St. Louis, Mo. Automatic change-speed transmission. No. 1,391,707; Sept. 27; v. 290; p. 661.
- Vixson Company, The. (See Lindquist, Birger W., assignor.)
- Vlach, Joseph, Jr., Hanover, Kans. Ham-hanger. No. 1,378,739; May 17; v. 286; p. 560.
- Vlasak, Charles J., St. Louis, Mo. Fuel-igniter. No. 1,381,951; June 21; v. 287; p. 421.
- Vocaltone-Pianotina Company. (See Vasey, J. N., and Kiessig, assignors.)



## Alphabetical list of patentees—Continued.

- Vogel, Henry S., Grant City, Mo. Game. No. 1,396,795; Nov. 15.
- Voegeli, Johann, Zurich, Switzerland. Apparatus for the combustion of poisonous gases in high furnaces. No. 1,371,827; Mar. 15; v. 284; p. 505.
- Voelpel, Oliver J., St. Louis, Mo. Supporting-chair for supporting reinforcing-bars. No. 1,378,202; May 17; v. 286; p. 457.
- Voetberg, Anne, Racine, Wis. Perpetual calendar. No. 1,376,981; May 3; v. 286; p. 115.
- Vogel, John G., Hampton, Iowa. Ensilage-distributer. No. 1,389,402; Aug. 30; v. 289; p. 917.
- Vogel-Jorgensen, Mikael, Frederiksberg, near Copenhagen, Denmark, assignor to F. L. Smith & Co., New York, N. Y. Ball-mill for crushing ores. No. 1,374,410; Apr. 12; v. 285; p. 240.
- Vogel, William, New York, N. Y. Can-opener. No. 1,381,037; June 7; v. 287; p. 137.
- Vogelsong, Michael, Toledo, Ohio. Wire-coiling apparatus. No. 1,394,378; Oct. 18.
- Vogelzang, Frank, Rock Valley, Iowa. Dental instrument. No. 1,378,433; May 17; v. 286; p. 501.
- Vogensen, H. P. (See Christensen, Claus P., assignor.)
- Voges, Anthony. (See Voges, August B. and A.)
- Voges, August B. and A., Cincinnati, Ohio. Pump. No. 1,398,408; Nov. 29.
- Voges, William E., St. Louis, Mo. Tractor lawn-cutter. No. 1,383,178; June 28; v. 287; p. 707.
- Volet, René A. L., Paris, France. Commutator and the like. No. 1,401,016; Dec. 20.
- Voght, John P., S., Denver, Colo. Finger-print identification-card and producing same. No. 1,380,506; June 7; v. 287; p. 35.
- Voglmeier, Adolf. (See Magerle, E., and Martinek, assignors.)
- Vogt, Alfred A. R., Hillman, Mich. Animal-releasing device. No. 1,365,133; Jan. 11; v. 282; p. 254.
- Vogt, Axel S. (See Zell, J. J., and Vogt.)
- Vogt, Frank P., Chicago, Ill. Hopper and discharge-chute. No. 1,401,837; Dec. 27.
- Vogt, Josepn, Richmond, Minn. Block-machine. No. 1,379,733; May 31; v. 286; p. 895.
- Voight, George F., San Francisco, Calif., assignor to W. S. Burgess, Oak Park, Ill. Spring-suspension lever. No. 1,378,155; May 17; v. 286; p. 449.
- Voight, George F., San Francisco, Calif., assignor to W. S. Burgess, Oak Park, Ill. Spring suspension. No. 1,381,523; June 14; v. 287; p. 279.
- Voight, George F., San Francisco, Calif., assignor to W. S. Burgess, Oak Park, Ill. Shock-absorber. No. 1,381,524; June 14; v. 287; p. 279.
- Voight, Henry G., New Haven, Conn. Luggage-carrier. No. 1,395,315; Nov. 1.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,369,505; Feb. 22; v. 283; p. 655.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,369,506; Feb. 22; v. 283; p. 655.
- Voight, Henry G., assignor to Sargent & Company, New Haven, Conn. Molasses-gate lock. No. 1,377,531; May 10; v. 286; p. 276.
- Voight, Henry G., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,390,403; Sept. 13; v. 290; p. 261.
- Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,391,351; Sept. 20; v. 290; p. 516.
- Voith, George F., Philadelphia, Pa. Repeating device for talking-machines. No. 1,385,056; July 19; v. 288; p. 503.
- Volet, René A. L., Paris, France. Dynamic balancing-machine. No. 1,401,838; Dec. 27.
- Volk, Sidney, Benton Harbor, Mich. Tubular-radiator construction. No. 1,391,871; Sept. 27; v. 290; p. 694.
- Volkes, Morris, Brooklyn, N. Y. Hand-torch. No. 1,384,171; July 12; v. 288; p. 238.
- Volkwein, Harry J. (See Easterberg, R. N., and Volkwein.)
- Voll, Samuel T., Harb, Mont. Automatic lubricator. No. 1,367,107; Feb. 1; v. 283; p. 45.
- Völler, Karl, Düsseldorf, assignor to Rheihsche Metallwaaren und Maschinenfabrik, Düsseldorf-Derendorf, Germany. Center-pivot-gun carriage. No. 1,399,674; Dec. 6.
- Vollmer, John, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun-barrel with a breech-piece screwed on an A tube. No. 1,393,057; Oct. 11.
- Vollmer, John, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun-barrel built of an A-tube and a breech-piece. No. 1,398,819; Nov. 29.
- Vollmer, John, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Composite gun-barrel assembled by rotary motion of its component parts. No. 1,400,780; Dec. 20.
- Vollmer, Karl, Dr. (See Stephens, Arnold A., assignor.)
- Volitini, Riccardo, Waterbury, Conn. Ventilated shoe. No. 1,369,590; Feb. 22; v. 283; p. 672.
- Volwiler, Ernest H. (See Kamm, O., and Volwiler.)
- Volz, Otto, Berlin, Germany. Water-softening washing compound. No. 1,400,332; Dec. 13.
- Volz, Simon, Milwaukee, Wis. Rack-holder. No. 1,371,279; Mar. 15; v. 284; p. 398.
- Vom Baur, Carl H., Douglaston, N. Y. Electric furnace. No. 1,385,411; July 26; v. 288; p. 651.
- Von Appen, August, Kiel, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Apparatus for investigating an electrical gyroscopic firing-gear. No. 1,398,828; Nov. 29.
- Von Babo, Max, Seattle, Wash. Automobile attachment. No. 1,389,717; Sept. 6; v. 290; p. 32.
- Von Beck, Ernest. (See Glisoni, E., and von Beck.)
- Von Bichowsky, Foord. (See Harthan, J. F., and Von Bichowsky.)
- Von Bichowsky, Foord, and J. F. Harthan, Pomona, Calif. Synthesizing titanium-nitrogen compounds. No. 1,391,147; Sept. 20; v. 290; p. 474.
- Von Bichowsky, Foord, and J. F. Harthan, Pomona, Calif. Synthetic production of titanium-nitrogen compounds. No. 1,391,148; Sept. 20; v. 290; p. 474.
- Von Canon, James B., West End, N. C. Self-loading vehicle. No. 1,397,993; Nov. 22.
- Von Canon, James B., West End, N. C. Self-loading vehicle. No. 1,397,994; Nov. 22.
- Von Deest, William, Ashton, Iowa. Scaffold. No. 1,368,668; Feb. 15; v. 283; p. 454.
- Von Groeling, Albrecht F. G. C. P. J., assignor to National Refining Corporation, Inc., New York, N. Y. Apparatus for heating liquid hydrocarbons in distilling and other processes. No. 1,378,066; May 17; v. 286; p. 432.
- Von Kando, Kalman, Vado Ligure, Italy, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical insulator. No. 1,376,486; May 3; v. 286; p. 21.
- Von Kersburg, Harry E., assignor to R. H. Macy & Co., Inc., New York, N. Y. Safety attachment for stop-watches. No. 1,373,467; Apr. 5; v. 285; p. 17.
- Von Krannichfeldt, Heinrich. (See Villiger, V., and von Krannichfeldt.)
- Vonnegut, Anton. (See Gathman, Monte B., assignor.)
- Von Niessen, Ernst H. W., Wilmersdorf-Berlin, Germany. Bristle for brooms and brushes. No. 1,390,973; Sept. 13; v. 290; p. 376.
- Von Pein, Edward J., assignor to The National Cash Register Company, Dayton, Ohio. Cash-register. No. 1,371,653; Mar. 15; v. 284; p. 472.
- Von Philp, Alva M. C., administratrix. (See Von Philp, Hjalmar C. L.)
- Von Philp, Hjalmar C. L., deceased; by A. M. C. von Philp, administratrix, Bethlehem, Pa. Wheel-rolling mill. No. 1,371,009; Mar. 8; v. 284; p. 283.
- Von Porat, Karl H. V., Stockholm, assignor to Motala Verkstads Nya Aktiebolag, Motala, Sweden. Feeding device for pulverulent fuel in furnaces. No. 1,364,532; Jan. 4; v. 282; p. 94.
- Von Porat, Karl H. V., Stockholm, assignor to Motala Verkstads Nya Aktiebolag, Motala Verkstad, Sweden. Feeding device for pulverulent fuel. No. 1,364,533; Jan. 4; v. 282; p. 94.
- Von Post, Thom M. U., Stäket, Sweden. Furnace system for dry distillation. No. 1,375,943; Apr. 26; v. 285; p. 629.
- Von Post, Thom M. U., Stäket, Sweden. Carbonizing-furnace. No. 1,375,944; Apr. 26; v. 285; p. 630.
- Von Post, Carl G., Gottenborg, Sweden. Bearing for shafts. No. 1,386,745; Aug. 9; v. 289; p. 226.
- Von Post, Gustaf, New York, N. Y. Reading device for scales. No. 1,396,607; Nov. 8.
- Von Porat, Karl H. V., Stockholm, assignor to Motala Verkstads Nya Aktiebolag, Motala Verkstad, Sweden. Apparatus for stirring and feeding of pulverulent fuel in furnaces for locomotives or the like. No. 1,390,974; Sept. 13; v. 290; p. 376.
- Von Rague, Bettie, Chicago, Ill. Musical chart. No. 1,384,172; July 12; v. 288; p. 239.
- Von Rentsch, Robert D., New York, N. Y. Waistband-lining. No. 1,366,852; Jan. 25; v. 282; p. 673.
- Von Recklinghausen, Max, assignor to Air Reduction Company, New York, N. Y. Heat-interchanger. No. 1,393,452; Oct. 11.
- Von Recklinghausen, Max, assignor to Air Reduction Company, New York, N. Y. Apparatus for filling oxygen-cylinders. No. 1,394,955; Oct. 25.
- Von Rentsch, Robert D., et al. (See Goldstein, Barnett H., assignor.)
- Von Rentsch, Robert D. (See Pugatsky, M., and Von Rentsch.)
- Von Schlumbach, Adolph, Altoona, Pa. Folding box or crate. No. 1,376,487; May 3; v. 286; p. 21.
- Von Stein, Edna E., administratrix. (See Hollowell, Benjamin.)
- Von Thien, Theodore P. A. (See Jones, R. E., and von Thien.)
- Von Vargyas, Eugene, Washington, D. C., assignor to "Owl" Headlight Company. Headlight-screen. No. 1,372,919; Mar. 29; v. 284; p. 815.
- Von Wochrmann, C. (See Munger, Frederick, assignor.)
- Von Wursterberger, Franz, Zurich, Switzerland. Protection against electrolytic destruction. No. 1,379,582; May 24; v. 286; p. 792.
- Von Zeerleder, Alfred, assignor to Societe Anonyme Des Ateliers De Sécheron, Geneva, Switzerland. Electric-resistance heater for melting-furnaces. No. 1,367,442; Feb. 1; v. 283; p. 111.



- Von Zweigbergk, Thorsten, Lancaster, England. Electric change-speed gearing. No. 1,369,148; Feb. 22; v. 283; p. 587.
- Von Zweigbergk, Gillis, St. Annes-on-Sea, England. Change-speed gear. No. 1,384,504; July 12; v. 288; p. 307.
- Voorhees, George E., Jr., Santa Barbara, Calif. Demountable-rim wedge. No. 1,385,029; July 19; v. 288; p. 498.
- Voorhees, John J., Jersey City, N. J. Material for producing patches for pneumatic tires and the like. No. 1,385,803; July 26; v. 288; p. 732.
- Voorhees, Lee J., Binghamton, N. Y., assignor to National Carbon Company, Inc., a Corporation of New York. Screw-threaded connection. No. 1,388,622; Aug. 23; v. 289; p. 708.
- Voorsanger, Leon. (See Weber, A. Voorsanger, and Seller.)
- Vorce, Albert F., Ludington, Mich. Hand-embroidery needle. No. 1,392,542; Oct. 4.
- Voress, Clyde L. (See Burrell, G. A., Voress, and Canter.)
- Vortex Washer Corporation. (See De Laney, Jeremiah L., assignor.)
- Vos, Calvin, New York, N. Y. Alloy. No. 1,382,146; June 21; v. 287; p. 456.
- Vos, Calvin, New York, N. Y. Alloy. No. 1,382,147; June 21; v. 287; p. 456.
- Vos, Salomon, Brooklyn, N. Y. Brush for mucilage and paste bottles. No. 1,378,636; May 17; v. 286; p. 540.
- Voshardt, Herman F., assignor to Friedley-Voshardt Co., Chicago, Ill. Means for stamping circular rings. No. 1,370,387; Mar. 1; v. 284; p. 119.
- Voss, Charles R., New Orleans, La. Cord-fastener. No. 1,365,872; Jan. 18; v. 282; p. 437.
- Voss, Charles H., Hypoluxie, Fla. Lighting system for motor-vehicles. No. 1,376,237; Apr. 26; v. 285; p. 685.
- Voss, Clara S. E., assignor to Crescent Belt Fastener Company, New York, N. Y. Belt-fastener. No. 1,401,506; Dec. 27.
- Voss, Henry C., and C. Hultgren, assignors to S. Karpen Bros., Chicago, Ill. Sawing-machine guard. No. 1,368,773; Feb. 15; v. 283; p. 476.
- Voss, Otto, assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Method of and machine for applying a coating to cans. No. 1,380,610; June 7; v. 287; p. 54.
- Voss & Stern. (See Katz, Max, assignor.)
- Voss, William, Wilmington, Del., assignor to American Car and Foundry Company, New York, N. Y. Platform end sill. No. 1,388,535; Aug. 23; v. 289; p. 691.
- Voss, William H., Davenport, Iowa. Washing-machine. No. 1,379,373; May 24; v. 286; p. 753.
- Voss, William H., Davenport, Iowa. Washing-machine mechanism. No. 1,384,876; July 19; v. 288; p. 466.
- Voss, William H., Davenport, Iowa. Washing-machine mechanism. No. 1,385,806; July 26; v. 288; p. 732.
- Votaw, Homer S., Chopaka, Wash. Derailing-guard. No. 1,391,223; Sept. 20; v. 290; p. 489.
- Votaw, Homer S., Chopaka, Wash. Railway-brake. No. 1,391,224; Sept. 20; v. 290; p. 489.
- Voth, Walter P., Willoughby, Ohio. Winding and unwinding apparatus. No. 1,398,984; Dec. 6.
- Votruba, William E., Traverse City, Mich. Leather basket. No. 1,368,774; Feb. 15; v. 283; p. 475.
- Voulgre, André J. D. A., Bayonne, France. Unwinding apparatus. No. 1,393,985; Oct. 18.
- Vought, George W., Hollis, N. Y. Mold for making tiles. No. 1,365,753; Jan. 18; v. 282; p. 413.
- Vrbic, Theodore, Chicago, Ill. Combination clothes hanger and stretcher. No. 1,374,260; Apr. 12; v. 285; p. 211.
- Vreeland, George V. C., East Orange, N. J., assignor to National Carbon Company, Inc. Flashlight. No. 1,372,851; Mar. 29; v. 284; p. 800.
- Vreeland, George V. C., East Orange, N. J., assignor to National Carbon Company, Inc. Flashlight. No. 1,374,411; Apr. 12; v. 285; p. 241.
- Vreeland, George W. (See McGee, F. R., and Vreeland.)
- Vreeland, Walter G., assignor to Lucey Manufacturing Corporation of Tennessee, Chattanooga, Tenn. Crown-block for well-drilling apparatus. No. 1,368,775; Feb. 15; v. 283; p. 475.
- Vreeland, Walter G., assignor to Lucey Manufacturing Corporation, Chattanooga, Tenn. Automatic slip for well-boring apparatus. No. 1,400,701; Dec. 20.
- Vroman, Erwin C., Watertown, N. Y., assignor to The New York Air Brake Company. Train-control system. No. 1,372,377; Mar. 22; v. 284; p. 667.
- Vuccasovich, Michel P., Wellesley, Mass. Red caviar and making and preserving the same. No. 1,388,982; Aug. 30; v. 289; p. 834.
- Vulcan Last Company. (See Clausung, George, assignor.)
- Vulcan Mfg. Co. (See Coy, Herbert C., assignor.)
- Vulcan Motor Devices Company. (See Beemer, Frank, assignor.)
- Vultee, Charles F. L., Milwaukee, Wis. Vaginal syringe. No. 1,383,502; July 5; v. 288; p. 50.
- W. & T. Avery Limited. (See Barraclough, Arthur, assignor.)
- Wachenheimer Bros. (See Wachenheimer, Harry, assignor.)
- Wachenheimer, Harry, assignor to Wachenheimer Bros., Providence, R. I. Spring-ring. No. 1,386,746; Aug. 9; v. 289; p. 226.
- Wachtel, Charles, assignor to M. Hartman, New York, N. Y. Portable electric light. No. 1,393,858; Oct. 18.
- Wachter, Carl O., Wheeling, W. Va. Machine for wrapping articles. No. 1,394,240; Oct. 18.
- Wachter, Louis E. F., New York, N. Y., assignor to Star Watch Case Co., Ludington, Mich. Watch-pendant. No. 1,383,884; July 5; v. 288; p. 130.
- Wacker, George W., Rutherford, N. J. Running-gear. No. 1,377,948; May 10; v. 286; p. 357.
- Wackerly, Harry A., assignor to Morgan Engineering Company, Alliance, Ohio. Electric-motor-control system. No. 1,388,906; Aug. 30; v. 289; p. 818.
- Wackwitz, Ernest R., Arlington Heights, assignor to Gray & Davis Inc., Cambridge, Mass. Focusing apparatus for lamps. No. 1,398,531; Nov. 29.
- Wackwitz, Henry E. J., Port Washington, assignor of forty-nine per cent. to W. Hewett, Sands Point Road, N. Y. Combination-tool. No. 1,387,214; Aug. 9; v. 289; p. 319.
- Waddell, John M., Greenfield, Ohio. Support for box-lids. No. 1,399,830; Dec. 13.
- Waddington, Edward C. (See Lindsey, C., and Waddington.)
- Wade, Alice E., Rock Ferry, England. Fountain or reservoir pen. No. 1,386,817; Aug. 9; v. 289; p. 241.
- Wade, David K., Portland, Oreg. Electric sign. No. 1,397,995; Nov. 22.
- Wade, Frank E., assignor to Wade Manufacturing Company, Camden, N. J. Auxiliary sparking unit for spark-plugs. No. 1,394,426; Oct. 18.
- Wade Manufacturing Company. (See Wade, Frank E., assignor.)
- Wade, Stanley M., Oakland, Calif. Grouser. No. 1,374,481; Apr. 12; v. 285; p. 254.
- Waderlow, Alexander W., Detroit, Mich. Collapsible stool. No. 1,365,873; Jan. 18; v. 282; p. 437.
- Wadewitz, Alfred W., Schleisingerville, Wis. Leaf-holder. No. 1,399,675; Dec. 6.
- Wadler, Wilhelm, Weehawken, assignor of one-half to J. Hoch, West Hoboken, N. J. Gas and coal stove. No. 1,385,597; July 26; v. 288; p. 690.
- Wadley, Calvin P., Buffalo, N. Y. Coupling device for water-heaters, &c. No. 1,398,985; Dec. 6.
- Wadsworth, Charles W., Merrick, N. Y. Display device. No. 1,390,736; Sept. 13; v. 290; p. 328.
- Wadsworth, Charles W., Merrick, assignor to T. F. Moore, New York, N. Y. Display device. No. 1,390,737; Sept. 13; v. 290; p. 328.
- Wadsworth, Frank L. O., Pittsburgh, Pa. Rotary boring-drill. No. 1,365,134; Jan. 11; v. 282; p. 254.
- Wadsworth, Frank L. O., Pittsburgh, Pa. Rotary boring-drill. No. 1,374,867; Apr. 12; v. 285; p. 329.
- Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Ball Brothers Glass Manufacturing Company, Muncie, Ind. Glass-working machine. No. 1,375,336; Apr. 19; v. 285; p. 481.
- Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Hughes Tool Company, Houston, Tex. Rotary boring-drill. No. 1,388,496; Aug. 23; v. 289; p. 684.
- Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Hughes Tool Company, Houston, Tex. Rotary boring-drill. No. 1,388,497; Aug. 23; v. 289; p. 684.
- Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Hughes Tool Company, Houston, Tex. Multiple-stage rotary drill. No. 1,399,831; Dec. 13.
- Wadsworth, Frank M., Minneapolis, Minn. Tooth-form finder. No. 1,389,022; Aug. 30; v. 289; p. 842.
- Wadsworth, Harry E., New York, and W. B. Ensign, White Plains, N. Y. Automatic electric-circuit breaker. No. 1,368,003; Feb. 8; v. 283; p. 276.
- Wadsworth, Herbert, Avon, N. Y. Silo-trap-door construction. No. 1,377,036; May 3; v. 286; p. 125.
- Wadsworth, Perry C., assignor to Taylor's, Santa Ana, Calif. Food product and making the same. No. 1,400,191; Dec. 13.
- Waechtler, William G. (See Shear, E. E., and Waechtler.)
- Wagener, Gustav. (See Buchtel, Louise A., assignor.)
- Wagenhorst, James H., Akron, Ohio. Wheel and rim. No. 1,366,042; Jan. 18; v. 282; p. 470.
- Wagenhorst, James H., Akron, Ohio. Wheel. No. 1,369,859; Mar. 1; v. 284; p. 20.
- Wagenhorst, James H., Akron, Ohio. Automobile-spring. No. 1,372,210; Mar. 22; v. 284; p. 635.
- Wagenhorst, James H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Demountable-rim fastening. No. 1,368,669; Feb. 15; v. 283; p. 455.
- Wagenhorst, James H., Akron, Ohio. Electric blue-printing machine. No. 1,383,352; July 5; v. 288; p. 19.
- Wagenhorst, James H., Akron, Ohio. Electric blue-printing machine. No. 1,383,353; July 5; v. 288; p. 19.
- Wagenhorst, James H., Jackson, Mich. Demountable rim for automobile-wheels. No. 1,383,679; July 5; v. 288; p. 87.
- Wagenhorst, James H., Jackson, Mich. Demountable rim and means for fastening same. No. 1,397,565; Nov. 22.
- Wagenhorst, Otto F., Akron, Ohio. Gas-mask. No. 1,366,437; Jan. 25; v. 282; p. 591.
- Wagenhorst, Otto F., Akron, Ohio. Liquid-food container. No. 1,366,438; Jan. 25; v. 282; p. 591.
- Wagenseil, Ludwig, Aachen, Germany, assignor to H. Junkers, Aachen, Germany. Radiator. No. 1,376,178; Apr. 26; v. 285; p. 674.
- Wages, Edgar M., Los Angeles, Calif. Trolley-pole. No. 1,365,874; Jan. 18; v. 282; p. 437.



## Alphabetical list of patentees—Continued.

- Waggaman, William H., and T. B. Turley, Washington, D. C. Apparatus for the manufacture of phosphoric acid and compounds of the same. No. 1,387,817; Aug. 16; v. 289; p. 493.
- Waggoner, Melancthon R., Cedar Rapids, Iowa. Therapeutic apparatus. No. 1,399,676; Dec. 6.
- Waggoner, Victor H., *et al.* (See Anderson, George A., assignor.)
- Wagner, Bernard P., assignor to The Wagner Manufacturing Company, Sidney, Ohio. Cover for Dutch ovens and the like. No. 1,370,863; Mar. 8; v. 284; p. 256.
- Wagner, Alice B. (See Wagner, William G., assignor.)
- Wagner, Charles, Minneapolis, Minn. Display-rack. No. 1,373,781; Apr. 5; v. 285; p. 77.
- Wagner, Charles, New York, N. Y. Electrical current-control device. No. 1,390,317; Sept. 13; v. 290; p. 244.
- Wagner, Charles B., Jr., Burlington, Wis. Shoe for furniture-legs. No. 1,400,781; Dec. 20.
- Wagner, Charles F., Red Bank, N. J. Hover. No. 1,373,037; Mar. 29; v. 284; p. 838.
- Wagner, Clinton De W., Cedar Rapids, Iowa. Engine-radiator. No. 1,381,604; June 14; v. 287; p. 294.
- Wagner, Clyde E., and G. C. Wiemer, Joplin, Mo. Liquid-fuel burner. No. 1,366,980; Feb. 1; v. 283; p. 20.
- Wagner, E. R., Manufacturing Company. (See Wagner, Edward R., assignor.)
- Wagner, Edward A., Fort Wayne, Ind., assignor to General Electric Company. Stationary induction apparatus. No. 1,382,873; June 28; v. 287; p. 649.
- Wagner, Edward A. (See Coolidge, W. D., and Wagner.)
- Wagner, Edward H. (See Bivins, Chalfant E., assignor.)
- Wagner, Edward H., Providence Forge, Va. Adjustable radius rod. No. 1,398,820; Nov. 29.
- Wagner, Edward R., Milwaukee, assignor to E. R. Wagner Manufacturing Company, North Milwaukee, Wis. Front-fork clip for velocipedes. No. 1,387,215; Aug. 9; v. 289; p. 319.
- Wagner, Edward R., Milwaukee, assignor to E. R. Wagner Manufacturing Company, North Milwaukee, Wis. Vehicle-wheel hub. No. 1,400,112; Dec. 13.
- Wagner Electric Manufacturing Company. (See Cole, Lovell B., assignor.)
- Wagner Electric Manufacturing Company. (See Fynn, Valere A., assignor.)
- Wagner Electric Manufacturing Company. (See Weichsel, Hans, assignor.)
- Wagner Engineering Company, The. (See Doty, Walter G., assignor.)
- Wagner, Francis M., Pittsburgh, Pa. Latch. No. 1,364,661; Jan. 4; v. 282; p. 118.
- Wagner, Frank, New York, N. Y. Floor-working machine. No. 1,388,983; Aug. 30; v. 289; p. 834.
- Wagner, Frederick H., assignor to The Bartlett Hayward Company, Baltimore, Md. Liquid-feeding apparatus. No. 1,377,994; May 10; v. 286; p. 366.
- Wagner, Fritz. (See Brown, R. P., and Wagner.)
- Wagner, Henry J., assignor of one-half to P. F. McGinn, Boston, Mass. Headlight-lens. No. 1,383,250; June 28; v. 287; p. 721.
- Wagner, James A., San Francisco, Calif. Sack-cleaning machine. No. 1,382,944; June 28; v. 287; p. 662.
- Wagner, Julian W., Detroit, Mich. Work-holder. No. 1,396,302; Nov. 8.
- Wagner, Louis P., Milwaukee, Wis. Dental tool. No. 1,369,582; Feb. 22; v. 283; p. 671.
- Wagner, Louis G., Alameda, Calif. Protective cap. No. 1,364,662; Jan. 4; v. 282; p. 119.
- Wagner Manufacturing Company, The. (See Wagner, Bernard P., assignor.)
- Wagner, Martin L., Norristown, Pa. Receptacle. No. 1,371,530; Mar. 15; v. 284; p. 449.
- Wagner, Mary E., Atchison, Kans. Abdominal supporter. No. 1,370,568; Mar. 8; v. 284; p. 199.
- Wagner, Michael, assignor of one-third to L. Brodia and one-third to I. Weinberg, Pittsburgh, Pa. Pump-valve. No. 1,379,492; May 24; v. 286; p. 775.
- Wagner, Nicholas J., Chicago, Ill. Roof-truss. No. 1,392,096; Sept. 27; v. 290; p. 739.
- Wagner, Paul R., Los Angeles, Calif., and C. T. Grove, Great Falls, Mont. Folding comfort-chair for children. No. 1,379,374; May 24; v. 286; p. 754.
- Wagner, Rudolph, Jersey City, N. J. Chair. No. 1,375,337; Apr. 19; v. 285; p. 482.
- Wagner, Rudolf E., assignor to Aktiebolaget Karlstads Mekaniska Verkstads, Karlstad, Sweden. Strainer-cylinder for wood-pulp and cellulose. No. 1,385,340; July 19; v. 288; p. 560.
- Wagner, Rudolf E., assignor to Aktiebolaget Karlstads Mekaniska Verkstads, Karlstad, Sweden. Pulp-vat and the like. No. 1,385,341; July 19; v. 288; p. 560.
- Wagner, William A. (See Erickson, Oscar J., assignor.)
- Wagner, William G., assignor to A. B. Wagner, Carter, S. D. Spring-tire. No. 1,392,667; Oct. 4.
- Wagner, William J., assignor to The O. & W. Thum Company, Grand Rapids, Mich. Sticky-fly-ribbon coil. No. 1,379,734; May 31; v. 286; p. 895.
- Wagner, William L., Norfolk, Va. Vehicle elevating and supporting device. No. 1,389,405; Aug. 30; v. 289; p. 917.
- Wagon, Ira W., assignor of one-half to John F. Brown, Casa Grande, Ariz. Automatic rifle. No. 1,398,452; Nov. 29.
- Wagoner, Judson E., Monongahela, Pa., assignor to Combustion Engineering Corporation, New York, N. Y. Stoker-furnace. No. 1,374,125; Apr. 5; v. 285; p. 144.
- Wagoner, Warren M., and J. W. Varner, Piedmont, W. Va. Phonograph-record cabinet. No. 1,381,525; June 14; v. 287; p. 280.
- Wagstaff, Andrew L., Kansas City, Mo., assignor, by mesne assignments, of two-thirds to American Bottle Case Company. Knockdown bottle-case. No. 1,364,968; Jan. 11; v. 282; p. 222.
- Wahl Company, The. (See Hasselquist, Hugo S., assignor.)
- Wahl Company. (See Taylor, Milton C., assignor.)
- Wahl Company, The. (See Wahl, John C., assignor.)
- Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Chasing-machine. No. 1,395,316; Nov. 1.
- Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Toggle-joint self-filling pen. No. 1,365,754; Jan. 18; v. 282; p. 413.
- Wahl, John C., Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Calculating-machine. No. 1,366,683; Jan. 25; v. 282; p. 640.
- Wahl, John C., Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Calculating-machine. No. 1,397,188; Nov. 15.
- Wahl, John C., Chicago, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Calculating-machine. No. 1,400,584; Dec. 20.
- Wahl, Manfred, Philadelphia, Pa. Cooling apparatus. No. 1,373,468; Apr. 5; v. 285; p. 17.
- Wahl, Robert, Chicago, Ill. Preparation of media for yeast propagation and fermentation. No. 1,379,294; May 24; v. 286; p. 738.
- Wahlberg, John, New York, N. Y. Phonograph. No. 1,390,404; Sept. 13; v. 290; p. 261.
- Wahlberg, Nils J. A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Structure for trolley-wire fittings. No. 1,374,537; Apr. 12; v. 285; p. 265.
- Wahlberg, Nils J. A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley device. No. 1,379,705; May 31; v. 286; p. 890.
- Wahlberg, Nils J. A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator trolley-conductor clamp. No. 1,387,524; Aug. 16; v. 289; p. 433.
- Wahlin, Axel W., assignor to G. Lidseen, Chicago, Ill. Phonograph-needle sharpener. No. 1,401,213; Dec. 27.
- Wahlin, Axel W., assignor to G. Lidseen, Chicago, Ill. Phonograph-needle sharpener. No. 1,401,929; Dec. 27.
- Wainola, Matti, Los Angeles, Calif. Toy. No. 1,396,902; Nov. 15.
- Wainwright, Charles, Erie, Pa. Automatic relief means for compressor-regulators. No. 1,366,853; Jan. 25; v. 282; p. 673.
- Wainwright, Charles, Erie, Pa. Plate-valve. No. 1,390,941; Sept. 13; v. 290; p. 370.
- Wainwright Engineering Corporation. (See Wainwright, Harry A., assignor.)
- Wainwright, Frank R., Jersey City, N. J. Checking-machine. No. 1,394,379; Oct. 18.
- Wainwright, Harry A., assignor to Wainwright Engineering Corporation, Connerville, Ind. Piston-ring. No. 1,401,930; Dec. 27.
- Wainwright, Joseph E., Brooklyn, N. Y. Valve-lifting device. No. 1,392,373; Oct. 4.
- Waite, Edwin E., assignor, by mesne assignments, of one-half to Multicolor Company, Framingham, Mass. Bearing material. No. 1,398,926; Nov. 29.
- Waite, Harry F., New York, N. Y. Electric switch. No. 1,398,580; Nov. 29.
- Waite, Harry F., New York, N. Y. Fluoroscopic X-ray system. No. 1,400,333; Dec. 13.
- Wait, Harry R., Buffalo, N. Y. Device for removing the closure-boards of grain-car doors. No. 1,376,124; Apr. 26; v. 285; p. 664.
- Wait, Henry H., Chicago, Ill., assignor to Midwest Engine Company, Indianapolis, Ind. Packing for rotary shafts. No. 1,377,143; May 3; v. 286; p. 145.
- Wait, Henry H., Chicago, Ill. Dynamo-electric machine. No. 1,399,832; Dec. 13.
- Waite, George, Bexhill-on-Sea, England. Gas cooking-stove and like heater. No. 1,374,046; Apr. 5; v. 285; p. 129.
- Waite, Harry C., Elgin, assignor to Thermo Carburetor Co., Chicago, Ill. Carburetor. No. 1,381,680; June 14; v. 287; p. 309.
- Waite, Harry C., Elgin, assignor to Thermo Carburetor Co., Chicago, Ill. Carburetor. No. 1,381,681; June 14; v. 287; p. 309.
- Waite, Harry F., New York, N. Y. X-ray system. No. 1,371,010; Mar. 8; v. 284; p. 284.
- Waite, Harry F., New York, N. Y. Automatic clamp for bracket-supports. No. 1,371,011; Mar. 8; v. 284; p. 284.
- Waite, Harry F., New York, N. Y. Stereoscope for X-ray plates. No. 1,373,847; Apr. 5; v. 285; p. 91.
- Waite, Harry F., New York, N. Y. Device for keeping cooling-water at desirable temperatures. No. 1,373,848; Apr. 5; v. 285; p. 91.



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- Waite, Warren C., Downing, Wis. Spraying device. No. 1,373,372; Mar. 29; v. 284; p. 904.
- Waithman, Charles H., London, assignor to J. W. Carr, Halifax, York, and J. Gardiner, London, England. Advertisement device. No. 1,385,194; July 19; v. 288; p. 532.
- Wakefield, Aden, Alhambra, Calif. Hinge marker, measurer, and cutting device. No. 1,388,223; Aug. 23; v. 289; p. 629.
- Wakefield, C. C., & Company, Limited. (See Bliss, John, assignor.)
- Wakefield, F. W., Brass Company, The. (See Wakefield, Frederick W., assignor.)
- Wakefield, Flake M., Anniston, Ala. Electrical connector. No. 1,381,772; June 14; v. 287; p. 37.
- Wakefield, Frederick W., assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio. Vehicle-lamp. No. 1,365,135; Jan. 11; v. 282; p. 254.
- Wakefield, Frederick W., assignor to The F. W. Wakefield Brass Company, Vermilion, Ohio. Vehicle-lamp. No. 1,369,756; Feb. 22; v. 283; p. 705.
- Wakefield, Joseph, and A. Lamb, London, England. Safety-razor-blade-honing device. No. 1,367,108; Feb. 1; v. 283; p. 45.
- Wakeham, Walter L. (See Fienberg, N., and Wakeham.)
- Walbert, Ora O., Batesville, Ark. Shaft-coupling. No. 1,371,828; Mar. 15; v. 284; p. 505.
- Walch, Nicolas, Newton Highlands, assignor to Erwa Chemical Manufacturing Company, Needham, Mass. Rubber composition and making the same. No. 1,392,240; Sept. 27; v. 290; p. 768.
- Wald Manufacturing Company. (See Pawsat, Ewald F., assignor.)
- Walden, Alfred E., Detroit, Mich. Fuel-supply-control mechanism. No. 1,395,212; Oct. 25.
- Walden, Marcus A., San Francisco, Calif. Music-leaf turner. No. 1,384,364; July 12; v. 288; p. 278.
- Walden Worcester, Inc. (See Barnes, William, assignor.)
- Walder, Edward, Kansas City, Mo. Electric heater. No. 1,377,037; May 3; v. 286; p. 125.
- Waldes & Co. (See Mann, Alfred, assignor.) (Reissue.)
- Waldes, Jindrich, Prague, Bohemia. Button. No. 1,375,873; Apr. 26; v. 285; p. 616.
- Waldes, Jindrich, Prague, Bohemia. Hook-and-eye package. No. 1,390,405; Sept. 13; v. 290; p. 261.
- Waldes, Jindrich, Prague, Bohemia. Display-card for safety-pins. No. 1,391,287; Sept. 20; v. 290; p. 502.
- Waldes, Jindrich, Prague, Bohemia. Hairpin-package. No. 1,391,288; Sept. 20; v. 290; p. 502.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,369,065; Feb. 22; v. 283; p. 570.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,369,066; Feb. 22; v. 283; p. 571.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,374,969; Apr. 19; v. 285; p. 410.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,380,692; June 7; v. 287; p. 70.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriting Company, New York, N. Y. Typewriting-machine. No. 1,386,387; Aug. 2; v. 289; p. 83.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,388,392; Aug. 23; v. 289; p. 663.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,389,718; Sept. 6; v. 290; p. 32.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,393,187; Oct. 11.
- Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,400,702; Dec. 20.
- Waldo, Leonard, Plainfield, N. J. Reducing magnesium compounds. No. 1,379,886; May 31; v. 286; p. 923.
- Waldo, Verona V. (See Sinurr, Samuel P., assignor.)
- Waldon, Sidney D. (See Sherboudy, Earl H., assignor.)
- Waldorf, Henry, St. Louis, Mo. Aluminum heel for ladies' shoes. No. 1,366,981; Feb. 1; v. 283; p. 20.
- Waldorf, John A., Salt Lake City, Utah. Metallic pipe-covering. No. 1,383,680; July 5; v. 288; p. 88.
- Waldref, Grant. (See Anderson, Albert S., assignor.)
- Waldron, Fred D., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Ear-piece. No. 1,368,807; Feb. 15; v. 283; p. 383.
- Waldron, Frederic B., Prescott, assignor to Pilkington Brothers Limited, St. Helens, England. Apparatus for grinding or polishing plate-glass. No. 1,370,246; Mar. 1; v. 284; p. 93.
- Waldron, James M. (See Peddle, C. R., and Waldron.)
- Waldron, William H., New Brunswick, N. J. Printing-block for block-printing machines. No. 1,365,572; Jan. 11; v. 282; p. 338.
- Wales Adding Machine Company. (See Birth, Charles, assignor.)
- Wales Adding Machine Company. (See Brieche, Ambrosius, assignor.)
- Wales, Alfred B., Whitman, assignor to L. Muther, Newton, Mass. Web feeding and cutting apparatus. No. 1,398,581; Nov. 29.
- Wales Company, The. (See Wales, Nathaniel B., assignor.)
- Wales, Nathaniel B., assignor to Wales Pneumatic Parachute Corporation, New York, N. Y. Pneumatically-reinforced casing for aeronautical carriers. No. 1,364,596; Jan. 4; v. 282; p. 106.
- Wales, Nathaniel B., Boston, Mass., assignor, by mesne assignments, to The Wales Company, Kalamazoo, Mich. Automatic heating system. No. 1,393,654; Oct. 11.
- Wales Pneumatic Parachute Corporation. (See Wales, Nathaniel B., assignor.)
- Wales, Ralph W., Auburndale, assignor to Hartel Brothers & Co., Boston, Mass. Storage battery. No. 1,366,223; Jan. 18; v. 282; p. 505.
- Walker, Albert C. (See Hanson, H. H., and Walker.)
- Walker, Alexander, Wallsend-upon-Tyne, assignor of one-half to Drakes Limited, Ovenden, Halifax, England. Mechanism for screening or sifting granulated substances. No. 1,389,231; Aug. 30; v. 289; p. 883.
- Walker, Alfred J. N., Liverpool, England. Manufacture of printing-plates or surfaces for printing from. No. 1,375,874; Apr. 26; v. 285; p. 616.
- Walker, Arthur N., Bolton, England. Apparatus for treating hides. No. 1,396,699; Nov. 8.
- Walker Brothers Co., The. (See Walker, Willard R., assignor.)
- Walker, Charles B., Moseley, England. Screw-propeller. No. 1,374,786; Apr. 12; v. 285; p. 313.
- Walker, Charles B., Moseley, England. Screw-propeller. No. 1,374,787; Apr. 12; v. 285; p. 313.
- Walker, Charles L., San Francisco, Calif. Brake shoe and head. No. 1,390,846; Sept. 13; v. 290; p. 350.
- Walker, Clarence G., Bramwell, W. Va. Attachment for coal-conveyers. No. 1,375,988; Apr. 26; v. 285; p. 637.
- Walker, Clarence H., Larchmont, N. Y. Commutator. No. 1,375,945; Apr. 26; v. 285; p. 630.
- Walker, Clarence J., Conneaut Lake, Pa. Medicine-measuring device. No. 1,375,430; Apr. 19; v. 285; p. 490.
- Walker, Cyrus M., Kansas City, Mo. Garment. No. 1,364,663; Jan. 4; v. 282; p. 119.
- Walker, Edward C. (See Youtsey, F. S., Walker, and Moses.)
- Walker, Edward E., *et al.* (See Cox, John W., assignor.)
- Walker, Edwin, deceased, Erie, Pa.; J. Sterrett and M. E. Steiner, administratrices. Making crown-openers. No. 1,385,976; July 26; v. 288; p. 765.
- Walker, Edwin J., Jr., Penn Yan, N. Y. Bin structure. No. 1,397,887; Nov. 22.
- Walker, Frank A., Niagara Falls, N. Y. Starting device for talking-machines. No. 1,379,493; May 24; v. 286; p. 776.
- Walker, Frank E. (See Spencer, A. B., and Walker.)
- Walker, Frank J., Wichita, Kans. Shoe-heel. No. 1,395,535; Nov. 1.
- Walker, Fred, Philadelphia, Pa. Hairpin. No. 1,392,374; Oct. 4.
- Walker, Gaines M., St. Louis, Mo. Shipping-box. No. 1,381,258; June 14; v. 287; p. 230.
- Walker, George E., Prestwich, S. H. Walker, Southport, and F. Hewitt, Radcliffe, England. Machine for the production of metal tags such as used on laces. No. 1,395,536; Nov. 1.
- Walker, George L. (See Zouck, G. H., and Walker.)
- Walker, George L., New York, N. Y., assignor to Air Reduction Company, Incorporated. Blowpipe. No. 1,387,434; Aug. 9; v. 289; p. 364.
- Walker, George L., New York, N. Y., assignor to Air Reduction Company, Inc. Blowpipe. No. 1,387,435; Aug. 9; v. 289; p. 364.
- Walker, George L., New York, N. Y., assignor to Air Reduction Company, Inc. Combination-blowpipe. No. 1,395,537; Nov. 1.
- Walker, George T., Minneapolis, Minn., assignor, by mesne assignments, to Colonial Chemical Corporation. Making Glauber's salt, tri-sodium phosphate, and neutral sodium phosphate. No. 1,379,735; May 31; v. 286; p. 895.
- Walker, George W., Oakland, Calif. Clothespin. No. 1,369,378; Feb. 15; v. 283; p. 397.
- Walker, George W., Oakland, Calif. Toothpick-holder. No. 1,385,288; July 19; v. 288; p. 550.
- Walker, Gilbert S., Brooklyn, N. Y. Automatic water-heater. No. 1,366,043; Jan. 18; v. 282; p. 470.
- Walker, Harry, Anaheim, Calif. Tire-carrier-locking device. No. 1,384,982; July 19; v. 288; p. 488.
- Walker, Harry D. (See Osburn, B. M., and Walker.)
- Walker, Henry C. (See Kampe, Otto, assignor.)
- Walker, Ira B., Etna Mills, Calif. Signaling device. No. 1,375,806; Apr. 26; v. 285; p. 602.
- Walker, Isham P., Tyler, Tex. Building construction. No. 1,396,543; Nov. 8.
- Walker, James H. P., Tottenham Court Road, England. Jig for use in drilling and boring operations. No. 1,372,378; Mar. 22; v. 284; p. 667.
- Walker, John. (See Nygrien, Theodore W., assignor.)
- Walker, Joah H., Woolwich, England. Lifting or hauling gear. No. 1,398,756; Nov. 29.
- Walker, Joseph, assignor to Angsten-Kox Company, Chicago, Ill. Lamp. No. 1,382,259; June 21; v. 287; p. 478.



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- Walker, Leonard, assignor of one-half to R. La Rock, Chicago, Ill. Shade-roller support. No. 1,377,038; May 3; v. 286; p. 126.
- Walker, Lewis, Richmond, Va. Boot and shoe stretcher. No. 1,394,871; Oct. 25.
- Walker, Mitchell B., and G. A. Martin, La Grange, N. C. Garage-shop motor-cranking machine. No. 1,366,614; Jan. 25; v. 282; p. 626.
- Walker, Robert, Toronto, Ontario, Canada. Level. No. 1,380,611; June 7; v. 287; p. 54.
- Walker, Robert J., San Francisco, Calif. Luting composition. No. 1,364,224; Jan. 4; v. 282; p. 34.
- Walker, Robert J., and J. J. Shane, San Francisco, Calif.; said Walker assignor to said Shane. Coal-oil burner. No. 1,366,982; Feb. 1; v. 283; p. 20.
- Walker, Samuel H. (See Walker, George E. and S. H., and Hewitt.)
- Walker, Sanders, Wichita Falls, Tex. Carbureter. No. 1,389,719; Sept. 6; v. 290; p. 32.
- Walker, Selah E., Portland, Oreg. Continuous cooker for foods in containers. No. 1,382,148; June 21; v. 287; p. 456.
- Walker, Selah E., Portland, Oreg. Lacquering-machine. No. 1,382,149; June 21; v. 287; p. 456.
- Walker, Stanley, Kings Lynn, England. Indicating apparatus. No. 1,374,788; Apr. 12; v. 285; p. 313.
- Walker, Thomas C., Jr., Denver, Colo. Flexible-flange friction-clutch belt-pulley. No. 1,390,406; Sept. 13; v. 290; p. 261.
- Walker, Thomas D., assignor to The Traut & Hine Mfg. Company, New Britain, Conn. Belt-buckle. No. 1,388,623; Aug. 23; v. 289; p. 708.
- Walker, Thomas E., assignor to Crittall Casement Window Co., Detroit, Mich. Frame and sash construction. No. 1,382,578; June 21; v. 287; p. 539.
- Walker, U. G. (See Green, Arch B., assignor.)
- Walker, Viola K., administratrix. (See McGahan, Frederick L., assignor.)
- Walker Wells Company. (See Wells, George W., assignor.)
- Walker, Willard R., assignor to The Walker Brothers Company, Syracuse, N. Y. Dish-washing machine. No. 1,397,846; Nov. 22.
- Walker, William, Aberdeen, Wash. Oil-burner. No. 1,400,108; Dec. 13.
- Walker, William, Fairbury, Ill. Tile and sewer trap. No. 1,397,471; Nov. 15.
- Walker, William, and J. B. Lemley, Southbridge, Mass. Trolley-actuated circuit-closer. No. 1,366,304; Jan. 18; v. 282; p. 520.
- Walker, William, and Sons Limited. (See Marris, Hubert C., assignor.)
- Walker, William B., and W. B. Morrison, New York, and W. Smith, Whitestone, N. Y.; said Morrison and said Smith assignors to said Walker. Safety-razor. No. 1,365,212; Jan. 11; v. 282; p. 268.
- Walker, William E., Denver, Colo. Card-raising attachment for filing-drawers. No. 1,380,612; June 7; v. 287; p. 54.
- Walker, William H., Pine Bluff, Ark., assignor to Arkansas Short Leaf Lumber Company, Kansas City, Mo. Roughening the side edges of flooring-boards and the like. No. 1,387,873; Aug. 16; v. 289; p. 504.
- Walker, William J., Warrington, England. Apparatus for treating leather or other goods. No. 1,365,573; Jan. 11; v. 282; p. 339.
- Walker, William M., Seattle, Wash. Concrete pipe. No. 1,387,025; Aug. 9; v. 289; p. 283.
- Walker, William N., Akron, N. Y. Pocket-guard. No. 1,369,369; Feb. 22; v. 283; p. 629.
- Walker, William T., St. Louis, Mo. Automatic light-switch. No. 1,369,860; Mar. 1; v. 284; p. 20.
- Walkup, Samuel T., New York, N. Y. Autogubernator. No. 1,378,740; May 17; v. 286; p. 561.
- Walkup, Samuel T., New York, N. Y. Flower-press. No. 1,378,741; May 17; v. 286; p. 561.
- Walkup, Samuel T., New York, N. Y. Press throw-out. No. 1,378,742; May 17; v. 286; p. 561.
- Walkup, Samuel T., New York, N. Y. Car-door. No. 1,379,583; May 24; v. 286; p. 792.
- Wall, Arthur W., Sheldon, near Birmingham, England. Engine-piston and connecting-rod. No. 1,386,144; Aug. 2; v. 289; p. 36.
- Wall, Arthur W., Sheldon, near Birmingham, England. Magneto-driving arrangement for internal-combustion engines. No. 1,386,145; Aug. 2; v. 289; p. 37.
- Wall, Arthur W., Sheldon, near Birmingham, assignor of three-fourths to J. White, Jr., Boulton Road, Birmingham, England. Valve mechanism of internal-combustion engines. No. 1,401,294; Dec. 27.
- Wall, Ashbel T., Providence, R. I. Pin component and making the same. No. 1,378,501; May 17; v. 286; p. 514.
- Wall, Ashbel T., Providence, R. I. Safety-catch. No. 1,384,983; July 19; v. 288; p. 488.
- Wall, Benjamin W. (See McMichael, C. R., and Wall.)
- Wall, Charles F., and F. Harker, assignors to Wall & Ochs, Incorporated, Philadelphia, Pa. Trial spectacle-frame. No. 1,380,166; May 31; v. 286; p. 977.
- Wall, Edward J. (See Phelan, J. W., and Wall.)
- Wall, Edward J., Cambridge, assignor to Kalmus, Comstock & Westcott, Inc., Boston, Mass. Refining cacao-oil. No. 1,386,476; Aug. 2; v. 289; p. 100.
- Wall, Edward J., Cambridge, and J. W. Phelan, Medford, assignors to Kalmus, Comstock & Westcott, Inc., Boston, Mass. Margarin and making the same. No. 1,386,475; Aug. 2; v. 289; p. 100.
- Wall, James P., Pittsburgh, Pa. Oil-can. No. 1,367,902; Feb. 8; v. 283; p. 258.
- Wall, John H., Bristol, R. I. Loading device for shoe-dipping machines. No. 1,376,363; Apr. 26; v. 285; p. 710.
- Wall, John M., and C. Meldrum, Syracuse, N. Y. Taper and angle gage. No. 1,384,221; July 12; v. 288; p. 248.
- Wall, Marion P., assignor to One Fire Asphalt Plant Company, Chattanooga, Tenn. Method and apparatus for handling asphalt. No. 1,378,637; May 17; v. 286; p. 540.
- Wall, Michael J., Troy, N. Y. Concrete-reinforcement. No. 1,380,613; June 7; v. 287; p. 55.
- Wall & Ochs. (See Wall, C. F., and Harker, assignors.)
- Wall, William G., assignor to National Motor Car & Vehicle Corporation, Indianapolis, Ind. Body construction. No. 1,395,538; Nov. 1.
- Wall, William G., assignor to National Motor Car & Vehicle Corporation, Indianapolis, Ind. Brake. No. 1,396,796; Nov. 15.
- Wallace, Allen, Moorestown, N. J., assignor to Baldwin Locomotive Works, Philadelphia, Pa. Footplate for electric locomotives. (Reissue.) No. 15,145; July 5; v. 288; p. 162.
- Wallace, Allen, Moorestown, N. J., assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Electric-locomotive truck. No. 1,397,472; Nov. 15.
- Wallace, Amos, Petoskey, Mich. Spring-wheel. No. 1,379,665; May 31; v. 286; p. 882.
- Wallace Barnes Company, The. (See Moshier, James W., assignor.)
- Wallace, Charles R., Baltimore, Md. License-tag holder. No. 1,375,875; Apr. 26; v. 285; p. 616.
- Wallace, Clyde K., assignor of one-half to S. H. Chambers, Oakland, Calif. Oil-burner. No. 1,380,507; June 7; v. 287; p. 35.
- Wallace, David P. (See Jones, S. P., and Wallace.)
- Wallace, David T., Minneapolis, Minn. Nut-lock. No. 1,388,393; Aug. 23; v. 289; p. 664.
- Wallace, Duncan M. (See Guthrie, William, assignor.)
- Wallace, Edward, Cleveland, Ohio. Valve for internal-combustion and fluid-pressure engines. No. 1,386,477; Aug. 2; v. 289; p. 100.
- Wallace, Frank W., Chattanooga, Tenn. Insect-killer. No. 1,400,782; Dec. 20.
- Wallace, Frank W., Chattanooga, Tenn., assignor of one-half to A. E. Doyle. Dental impression-tray. No. 1,378,297; May 17; v. 286; p. 475.
- Wallace, George E. (See Graf, Fred, assignor.)
- Wallace, George T., and J. E. Twitchell, Detroit, Mich. Antiskid-chain. No. 1,393,986; Oct. 18.
- Wallace, Georgina J., Kensington, London, England, Tessary. No. 1,382,033; June 21; v. 287; p. 436.
- Wallace, Harvey K., Brooklyn, assignor to Loft Incorporated, New York, N. Y. Device for draining receptacles. No. 1,398,211; Nov. 22.
- Wallace, John J., Caldwell, Idaho. Hay-elevator. No. 1,371,456; Mar. 15; v. 284; p. 434.
- Wallace, Leon, New York, N. Y. Cap. No. 1,379,142; May 24; v. 286; p. 710.
- Wallace, Oscar L., Cincinnati, Ohio. Shore. No. 1,400,109; Dec. 13.
- Wallace, Stephen J., Logansport, Ind. Violin chin-rest. No. 1,387,216; Aug. 9; v. 289; p. 319.
- Wallace, Thomas B. S., Chicago, Ill. Appliance for holding films for dental radiographs. No. 1,398,247; Nov. 29.
- Wallace, Thomas W. (See Macdonald, A., and Wallace.)
- Wallace, Tirzah, Topeka, Kans. Mattress. No. 1,395,879; Nov. 1.
- Wallace, William L., Davidson, N. C. Attachment for cigarette-holders. No. 1,384,813; July 19; v. 288; p. 453.
- Wallace, William M., Houston, Tex. Tie-buckle. No. 1,365,137; Jan. 11; v. 282; p. 254.
- Wallace, William S., Fort Worth, assignor of one-half to C. O. Dallet, Taylor, Tex. Flytrap. No. 1,379,948; May 31; v. 286; p. 935.
- Wallburg, William V., Melrose, Mass. Confectionery-making machine. No. 1,383,681; July 5; v. 288; p. 88.
- Walldow, Carl, near San Jose, Calif. Sack-holder. No. 1,382,150; June 21; v. 287; p. 457.
- Wallenberg, Harold E., Detroit, Mich. Center-adaptor. No. 1,372,577; Mar. 22; v. 284; p. 705.
- Wallenthin, Walfrid, Attleboro, Mass., assignor to Eisenstadt Manufacturing Company, St. Louis, Mo. Bracelet. No. 1,382,034; June 21; v. 287; p. 436.
- Waller, Alfred E., Mount Vernon, N. Y., assignor to Ward Leonard Electric Company. Resistance device. No. 1,373,689; Apr. 5; v. 285; p. 60.
- Waller, Anthony E., Edgewood, R. I. Ear device. No. 1,368,308; Feb. 15; v. 283; p. 383.
- Waller, Charles E., Allentown, Pa., assignor, by mesne assignments, to Trojan Powder Company, New York, N. Y. Nitrostarch explosive. No. 1,386,478; Aug. 2; v. 289; p. 100.
- Waller, Charles W., Chicago, Ill. Alarm-clock. No. 1,366,983; Feb. 1; v. 283; p. 20.
- Waller, Charles W., Chicago, Ill. Necktie. No. 1,375,190; Apr. 19; v. 285; p. 454.
- Waller, Francis M., Stafford, England. Mechanically-propelled plow. No. 1,383,251; June 28; v. 287; p. 721.



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- Waller, Florence B. (See Garwood, Annie M., assignor.)
- Waller, James H. de W., Dublin, Ireland. Construction of reinforced-concrete-slab roofs for buildings. No. 1,367,289; Feb. 1; v. 283; p. 81.
- Waller, Paul H., Camberwell, London, England. Electrically-operated station-indicator. No. 1,364,905; Jan. 11; v. 282; p. 209.
- Waller, Paul H., Camberwell, London, England. Apparatus for exhibiting notices and the like. No. 1,364,906; Jan. 11; v. 282; p. 210.
- Waller, Paul H., Camberwell, London, England. Station or stopping-point indicator for public vehicles. No. 1,364,907; Jan. 11; v. 282; p. 210.
- Waller, Paul H., Camberwell, London, England. Signaling or indicating apparatus. No. 1,390,001; Sept. 6; v. 290; p. 89.
- Waller, Robert H., assignor, by mesne assignments, to Quicksafe Manufacturing Company, Nashville, Tenn. Can-opener. No. 1,393,412; Oct. 11.
- Wallerstein, Milton H., Paducah, Ky. Display-rack. No. 1,380,855; June 7; v. 287; p. 102.
- Wallerstein, Milton H., Paducah, Ky. Display-rack. No. 1,380,856; June 7; v. 287; p. 102.
- Wallerstein, Samuel L. (See Fauer, Samuel, assignor.)
- Wallertz, Frank, Chicago, Ill. Container. No. 1,393,413; Oct. 11.
- Wallis, Carl H., Chicago, Ill. Towing-line. No. 1,371,335; Mar. 15; v. 284; p. 409.
- Walley, James J., assignor of one-half to C. R. Porter, Anoka, Minn. Brace for axle-housings in automotive cars. No. 1,389,083; Aug. 30; v. 289; p. 854.
- Walley, Kenneth M., Chicago, Ill. Synchronizer for talking motion-pictures. No. 1,393,859; Oct. 18.
- Wallick, John S., Lancaster, Pa. Newspaper-holder. No. 1,373,988; Apr. 5; v. 285; p. 119.
- Wallin, Gustaf A., Scotch Plains, N. J., assignor to A. Kimball Company, New York, N. Y. Unit package. No. 1,391,433; Sept. 20; v. 290; p. 532.
- Wallinder, Erick G., Duluth, Minn. Railway-rail wearing-plate and connection. No. 1,376,488; May 3; v. 286; p. 21.
- Walling, Herbert B., Salt Lake City, Utah. Screening and concentrating device. No. 1,391,026; Sept. 20; v. 290; p. 449.
- Walling, John E., Bessemer, Ala. Pulley. No. 1,396,608; Nov. 8.
- Walling, Oscar L., Denver, Colo. Can-opener. No. 1,379,666; May 31; v. 286; p. 883.
- Wallis, Thomas M., Gurdon, assignor of one-half to A. McCormick, Nashville, Ark. Safety device for cars. No. 1,398,120; Nov. 22.
- Wallis Tractor Company. (See Hendrickson, Robert O., assignor.)
- Walliser, H. F., Company. (See Arnold, Clarence F., assignor.)
- Wallmann, Johann G., Oakland, Calif. Electric heating unit. No. 1,390,407; Sept. 13; v. 290; p. 262.
- Walls, Alexander G., assignor to Walter McGee & Son, Limited, Paisley, Renfrewshire, Scotland. Balling-machine. No. 1,395,213; Oct. 25.
- Walls, Ernest, Bristol, England. Apparatus for manufacturing and packing candles, night-lights, and such like articles. No. 1,392,286; Sept. 27; v. 290; p. 778.
- Walls, George A. (See Baird, M. B., and Walls.)
- Walmesley, Thomas, Sherman, Calif. Line-shafting. No. 1,371,654; Mar. 15; v. 284; p. 472.
- Walp, Charles F., A. J. Hicks, and F. O. Reedy, Berwick, Pa. Suspension-hook. No. 1,388,132; Aug. 16; v. 289; p. 554.
- Walrath, Burton A., Sioux City, Iowa, assignor to Westinghouse Electric and Manufacturing Company. Gear-shifting mechanism. No. 1,371,531; Mar. 15; v. 284; p. 449.
- Walrus Manufacturing Company. (See Gray, Leonard G., assignor.)
- Walser, Georges, Paris, France. Submarine listening apparatus. No. 1,391,654; Sept. 20; v. 290; p. 576.
- Walser, Joseph J., Chicago, Ill., assignor to Goss Printing Press Company. Printing and folding machine. No. 1,373,214; Mar. 29; v. 284; p. 873.
- Walser, Joseph J., Chicago, Ill., assignor to Goss Printing Press Company. Printing and folding machine. No. 1,373,215; Mar. 29; v. 284; p. 873.
- Walser, Joseph J., Chicago, Ill., assignor to Goss Printing Press Company. Printing and folding machine. No. 1,373,216; Mar. 29; v. 284; p. 873.
- Walser, Joseph J., Ann Arbor, Mich., assignor to Goss Printing Press Company. Printing-press. No. 1,388,676; Aug. 23; v. 289; p. 718.
- Walser, Joseph J. and H. Fankboner, Chicago, Ill., assignors to Goss Printing Press Company. Printing-press inking mechanism. No. 1,376,982; May 3; v. 286; p. 115.
- Walser, Joseph J., Ann Arbor, Mich., and H. Fankboner, Chicago, Ill., assignors to Goss Printing Press Company. Inking mechanism. No. 1,376,983; May 3; v. 286; p. 115.
- Walsh, James A., *et al.* (See Krause, Norman R., assignor.)
- Walsh, John L., and H. H. Reiber, Philadelphia, Pa. Wrench. No. 1,366,224; Jan. 18; v. 282; p. 505.
- Walsh, John M., Petaluma, Calif. Street- semaphore. No. 1,384,365; July 12; v. 288; p. 279.
- Walsh, Patrick H., Bemont, Mass. Sand-glass. No. 1,373,373; Mar. 29; v. 284; p. 904.
- Walsh, Peter R., Worcester, Mass. Bifocal lens. No. 1,396,303; Nov. 8.
- Walsh, Timothy, Philadelphia, Pa. Clutch. No. 1,375,191; Apr. 19; v. 285; p. 454.
- Walsh, William F., St. Paul, Minn. Globe-valve. No. 1,364,848; Jan. 4; v. 282; p. 154.
- Waishe, Laurence J., Saskatoon, Saskatchewan, Canada. License-number plate and tail-light. No. 1,381,038; June 7; v. 287; p. 137.
- Walt, Mervin F., Huron, S. D. Necktie. No. 1,378,067; May 17; v. 286; p. 432.
- Walton, Ruth B., *et al.* (See Gallagher, George D., assignor.) (Reissue.)
- Walton, Allen J. (See Kruesheld, H., and Walton.)
- Walton, Charles T., Chicago, Ill. Pneumatic shock-absorber. No. 1,386,818; Aug. 9; v. 289; p. 242.
- Walton, Frank L., Dayton, Ohio. Gage. No. 1,364,534; Jan. 4; v. 282; p. 95.
- Walton, Frank L., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Forming-machine. No. 1,395,935; Nov. 1.
- Walton, Harrison B., Philadelphia, Pa., assignor to Fibre Container Company. Multiple stapling-machine. No. 1,378,390; May 17; v. 286; p. 493.
- Walton, Horace E., Richmond, Va. Handbag-handle. No. 1,374,126; Apr. 5; v. 285; p. 145.
- Walton, Hugo J. (See Lundgren, Carl J., assignor.)
- Walton, John. (See Leicht, Louis, assignor.)
- Walton, Maurice, assignor to Walter Motor Truck Company, New York, N. Y. Brake for motor-vehicles. No. 1,377,863; May 10; v. 286; p. 341.
- Walton, Maurice, assignor to Walter Motor Truck Company, New York, N. Y. Drive for self-propelled vehicles. No. 1,377,864; May 10; v. 286; p. 341.
- Walter Motor Truck Company. (See Walton, Maurice, assignor.)
- Walton, Richard, Villach, Austria, assignor, by mesne assignments, to The Chemical Foundation, Inc. Diaphragm for electrolytical cells. No. 1,399,531; Dec. 6.
- Walton, Robert, St. Louis, Mo. Container. No. 1,393,591; Oct. 11.
- Walton, William F. (See Elliott, William H., assignor.)
- Walton, William H., Alliance, Ohio. Forming steel wheels. No. 1,397,566; Nov. 22.
- Walters, Bonnie. (See Arntz, L., and Walters.)
- Walters, Charles W., Detroit, Mich. Push-button-operating device for automobile steering wheels. No. 1,381,259; June 14; v. 287; p. 230.
- Walters, Elmer, Eldorado, Kans. Oil-rig bull-rope tripper. No. 1,400,111; Dec. 13.
- Walters, Frank E., Toledo, Ohio. Stairway-block and stairways made therefrom. No. 1,370,718; Mar. 8; v. 284; p. 229.
- Walters, Henry W., assignor of one-half to J. H. Mackey, Jacksonville, Fla. Life-saving apparatus. No. 1,380,026; May 31; v. 286; p. 950.
- Walterskirchen, Theresia J., Missoula, Mont. Treating bran. No. 1,379,494; May 24; v. 286; p. 776.
- Waltham Watch Company. (See Ohlson, Olof, assignor.)
- Waltham Watch Company. (See Tesla, Nikola, assignor.)
- Walther, George, Dayton, Ohio. Cast-metal wheel. (Reissue.) No. 15,122; June 7; v. 287; p. 149.
- Walther, George, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Traction-wheel. No. 1,393,927; Oct. 18.
- Walther, George, and P. W. Klinger, assignors to The Dayton Steel Foundry Company, Dayton, Ohio. Steel truck-wheel. No. 1,393,928; Oct. 18.
- Waltman, Edward E. (See Bostrom, O. J., Waltman, and Zingsheim.)
- Walton, Charles L., assignor to Kelly-Springfield Tire Company, Akron, Ohio. Tire-mold. No. 1,380,085; May 31; v. 286; p. 961.
- Walton, Clifford J. (See McIlwain, H. A., Walton, and Wright.)
- Walton, Francis W. B., San Francisco, Calif. Means for mooring ships. No. 1,392,663; Oct. 4.
- Walton, Frank A., Portland, Oreg., assignor of one-half to F. W. Steiner, Sparks, Nev. Automatic train-stop. No. 1,374,342; Apr. 12; v. 285; p. 227.
- Walton, Frank S., and R. Schultz, New York, N. Y. Display-rack. No. 1,387,745; Aug. 16; v. 289; p. 478.
- Walton, Harold St. J., Feilding, New Zealand. Subsoil-draining attachment to agricultural implements. No. 1,373,374; Mar. 29; v. 284; p. 904.
- Walton, Jerrold F., Sturgis, Mich. Chair foot-rest. No. 1,386,819; Aug. 9; v. 289; p. 242.
- Walton, Leonard A. (See Langmaid, S. P., and Walton.)
- Walton, Robert T., and J. E. MacDonald, Philadelphia, Pa. Caster. No. 1,367,335; Feb. 1; v. 283; p. 90.
- Waltrowicz, Johann E., Gerang, Victoria, Australia. Wind-mill-control mechanism for tank-supply. No. 1,373,543; Apr. 5; v. 285; p. 32.
- Waltz, Philip W., Portland, Oreg. Steam-power automobile-wheel. No. 1,376,594; May 3; v. 286; p. 41.
- Walus, Antanas, Shelton, Conn. Door-adjuster. No. 1,395,539; Nov. 1.
- Walworth, Arthur C., Jr. (See Kirmes, Edwin W., and Walworth.)
- Walworth Manufacturing Company. (See Halbutter, John, assignor.)



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- Walz, Carl F., Minneapolis, Minn., assignor to S. L. Allen & Co., Inc. Tractor. No. 1,388,009; Aug. 16; v. 289; p. 530.
- Walz, Louis J. (See West, J. B., and Walz.)
- Wampler, Homer H., Dayton, Ohio. Bottle-capping device. No. 1,369,205; Feb. 22; v. 283; p. 597.
- Wampler, John W., Wichita, Kans. Spray attachment for hose-nozzles. No. 1,364,163; Jan. 4; v. 282; p. 23.
- Wampler, John W., Wichita, Kans. Gas service-pipe. No. 1,393,987; Oct. 18.
- Wanamaker, Ernest. (See Pennington, H. R., and Wanamaker.)
- Wanamaker, John, Philadelphia. (See Rehfuess, Martin O., assignor.)
- Wanat, John, Pittsburgh, Pa. Combination toy. No. 1,394,456; Oct. 18.
- Wandel, Kurt, New York, N. Y. Paper-reinforcing machine. No. 1,368,588; Feb. 15; v. 283; p. 439.
- Wandel, Kurt, New York, N. Y., assignor to Safepack Mills, Boston, Mass. Reinforced tube and bag making machine. No. 1,382,579; June 21; v. 287; p. 539.
- Wander, Alfred K., Chicago, Ill. Trousers appliance. No. 1,368,866; Feb. 15; v. 283; p. 493.
- Wander, Frank G., Washington, D. C. Multiple car-fare ticket-card for street-cars. No. 1,368,776; Feb. 15; v. 283; p. 475.
- Wanders, Hans H., Brookline, Mass. Metal-working machine. No. 1,373,690; Apr. 5; v. 285; p. 60.
- Wanders, Hans H., Brookline, Mass. Milling-machine. No. 1,395,373; Nov. 1.
- Wandersee, John F. (See Albrecht, T., Peretto, and Wandersee.)
- Wandersee, John F., Highland Park, assignor to Ford Motor Company, Detroit, Mich. Hardening or tempering cam-shafts. No. 1,376,984; May 3; v. 286; p. 115.
- Wandersee, John F., Highland Park, R. Peretto, Detroit, and T. A. L. Albrecht, Royal Oak, assignors to Ford Motor Company, Detroit, Mich. Metal alloy. No. 1,376,056; Apr. 26; v. 285; p. 651.
- Wandersee, Otto H., Rochester, N. Y. Reproducer for talking-machines. No. 1,380,445; June 7; v. 287; p. 23.
- Wandrie, Louis. (See Mery, Julius, assignor.)
- Wanek, Jozef, Westfield, Mass. Grinding-mill. No. 1,365,574; Jan. 11; v. 282; p. 339.
- Wangenstein, John J., and H. Fegraeus, Duluth, Minn. Insulating material. No. 1,379,143; May 24; v. 286; p. 710.
- Wanklyn, Frederic L., Montreal, Quebec, Canada. Vehicle-tire. No. 1,367,676; Feb. 8; v. 283; p. 214.
- Wanklyn, Frederic L., Montreal, Quebec, Canada. Railway-signal fusee. No. 1,367,903; Feb. 8; v. 283; p. 253.
- Wanklyn, Frederic L., Montreal, Quebec, Canada. Railway-signal-fusee. No. 1,381,371; June 14; v. 287; p. 251.
- Wann, John T., Berkeley, assignor to Pacific Wann Evaporator Co., San Francisco, Calif. Drying-tray. No. 1,367,443; Feb. 1; v. 283; p. 111.
- Wann, John T., Berkeley, assignor, by mesne assignments, to R. C. Newell and W. C. Murdoch, Jr., San Francisco, Calif. Evaporator. No. 1,375,431; Apr. 19; v. 285; p. 500.
- Wanous, Edwin F., Minneapolis, Minn. Door-catch. No. 1,381,372; June 14; v. 287; p. 251.
- Wansor, William B., Locust Valley, N. Y. Broom. No. 1,398,052; Nov. 22.
- Wappat, Fred W., Pittsburgh, Pa., assignor to Pittsburgh Gage & Supply Company. Shock-absorber for reversing mechanism. No. 1,399,173; Dec. 6.
- Wappler Electric Company. (See Wappler, Reinhold H., assignor.)
- Wappler, Reinhold H., Yonkers, N. Y., assignor to Wappler Electric Company, Inc. Cautery-electrodes. No. 1,366,756; Jan. 25; v. 282; p. 655.
- Wappler, Reinhold H., Yonkers, N. Y., assignor to Wappler Electric Company, Inc. High-potential electric machine. No. 1,371,404; Mar. 15; v. 284; p. 423.
- Warchalowski, Boleslaw, Illion, N. Y. Hatpin. No. 1,370,388; Mar. 1; v. 284; p. 120.
- Ward, Albert M., Rochester, N. Y. Check-writing machine. No. 1,386,479; Aug. 2; v. 289; p. 100.
- Ward, Alexander L., New York, N. Y. Locking device for collapsible containers. No. 1,380,875; June 7; v. 287; p. 106.
- Ward, Alfred, St. Albans, N. Y. Lubricating system. No. 1,380,276; May 31; v. 286; p. 997.
- Ward, Alfred P., San Antonio, Tex. Fireproof building construction. No. 1,391,352; Sept. 20; v. 290; p. 516.
- Ward, Andrew W., Seattle, Wash. Mute. No. 1,369,370; Feb. 22; v. 283; p. 629.
- Ward, Artemas. (See Giles, Harvey, assignor.)
- Ward, Bernie W., et al. (See Gill, George W., assignor.)
- Ward, Charles A., Mount Vernon, N. Y. Motor-vehicle chassis. No. 1,377,234; May 10; v. 286; p. 219.
- Ward, Charles A., Mount Vernon, N. Y. Battery-ventilating means for electric vehicles. No. 1,377,235; May 10; v. 286; p. 219.
- Ward, Charles A., Mount Vernon, N. Y. Lubricating means and process. No. 1,389,720; Sept. 6; v. 290; p. 32.
- Ward, Charles A., Mount Vernon, N. Y. Brake-operating mechanism. No. 1,395,540; Nov. 1.
- Ward, Chester K. (See Bridges, E. F., and Ward.)
- Ward, Daniel W., Memphis, Tenn. Commutator-brush-reseating tool. No. 1,395,880; Nov. 1.
- Ward, Ernest, Independence, Mo. Nut-lock. No. 1,389,172; Aug. 30; v. 289; p. 872.
- Ward, Eugene, Brooklyn, N. Y. Broom-clamp. No. 1,388,224; Aug. 23; v. 289; p. 629.
- Ward, Frank D., New York, N. Y. Portable engine. No. 1,385,289; July 19; v. 288; p. 550.
- Ward, Frank R., assignor, by mesne assignments, to Make-A-Tractor Corporation of America, Chicago, Ill. Tractor attachment for automobiles. No. 1,366,893; Jan. 25; v. 282; p. 682.
- Ward, Frank W., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in lasting boots and shoes. No. 1,400,703; Dec. 20.
- Ward, Fred H., Washington, D. C. Wagon. No. 1,377,949; May 10; v. 286; p. 358.
- Ward, Fred H., Washington, D. C. Combination lock and controller for side doors of box-cars. No. 1,379,495; May 24; v. 286; p. 776.
- Ward, George A., Chicago, Ill. Intermittent-vacuum massage-machine. No. 1,378,922; May 24; v. 286; p. 668.
- Ward, George P., et al. (See Grinham, Frederick, assignor.)
- Ward, George R., Munhall, Pa. Torch. No. 1,376,489; May 3; v. 286; p. 21.
- Ward, Harvey M., Jay, N. Y. Shade-roller bracket. No. 1,378,638; May 17; v. 286; p. 541.
- Ward, James W., Mount Vernon, Ill. Feed-trough. No. 1,385,510; July 26; v. 288; p. 672.
- Ward, Jehu L., Hutchinson, Kans. Gearing. No. 1,401,659; Dec. 27.
- Ward, Jerome, assignor to Blatchford Calf Meal Co., Waukegan, Ill. Beater for grinders. No. 1,401,017; Dec. 20.
- Ward, John A., Wilkes-Barre, Pa. Automobile-theft-protection device. No. 1,401,839; Dec. 27.
- Ward, Joseph, East Huntington, W. Va. Nut-lock. No. 1,367,336; Feb. 1; v. 283; p. 90.
- Ward, Joseph E., Chicago, Ill. Bag-holder. No. 1,376,660; May 3; v. 286; p. 53.
- Ward Leonard Electric Company. (See Kebler, Leonard, assignor.)
- Ward Leonard Electric Company. (See Schwagermann, William, assignor.)
- Ward Leonard Electric Company. (See Waller, Alfred E., assignor.)
- Ward, Louis E., assignor to The Dow Chemical Company, Midland, Mich. Electrolytic cell. No. 1,365,875; Jan. 18; v. 282; p. 438.
- Ward, Otis A., Evanston, Ill. Wrench. No. 1,396,982; Nov. 15.
- Ward, Percy W. (See Hudon, A., and Ward.)
- Ward, Radcliffe, New York, N. Y. Suspended railway-vehicle. No. 1,371,713; Mar. 15; v. 284; p. 483.
- Ward, Theodore W. H. (See Groves, S. E., and Ward.)
- Ward, Thomas F., Cleveland, Ohio. Lock. No. 1,401,018; Dec. 20.
- Ward, Wallace E., assignor to A. H. Ingle, Rochester, N. Y. Headstock mechanism of lathes. No. 1,389,919; Sept. 6; v. 290; p. 73.
- Ward, William H. (See Morse, Mark A., Jr., assignor.)
- Ward, William L., Anoka, Minn. Snowplow. No. 1,378,502; May 17; v. 286; p. 514.
- Wardell, Henry R., New York, N. Y., assignor to Central Commercial Company, Chicago, Ill. Manufacture of asphalt. No. 1,385,511; July 26; v. 288; p. 672.
- Warden, Frank L., Dewar, Okla. Tractor attachment. No. 1,378,743; May 17; v. 286; p. 561.
- Warden, John V. (See Cessna, C. L., and Warden.)
- Warden, William S., assignor to Baker, Murray & Imbrie, Inc., New York, N. Y. Artificial fish-bait. No. 1,380,876; June 7; v. 287; p. 106.
- Warder, Walter J., Jr., Chicago, Ill. Brush-holder. No. 1,375,124; Apr. 19; v. 285; p. 441.
- Warder, Walter J., Jr., Chicago, Ill. Support for brush-holders. No. 1,378,923; May 24; v. 286; p. 668.
- Wardner, Oel E. (See Humphrey, E. N., and Wardner.)
- Wardner, Oel E., assignor to Traut & Hine Mfg. Co., New Britain, Conn. Belt-buckle. No. 1,381,146; June 14; v. 287; p. 210.
- Wardner, Oel E., assignor to The Traut & Hine Mfg. Company, New Britain, Conn. Buckle. No. 1,394,380; Oct. 18.
- Wardwell, Simon W., deceased, Providence, R. I.; C. V. J. Christensen, E. C. Smith, A. A. Armstrong, and W. W. Bardsley, executors. Folding stand, stool, or other like article. No. 1,394,381; Oct. 18.
- Ware, Joseph L., Minneapolis, Minn. Vise. No. 1,375,876; Apr. 26; v. 285; p. 616.
- Ware, Orington A., Easton, Pa., assignor to Smith Signal Corporation, New York, N. Y. Switch. No. 1,391,924; Sept. 27; v. 290; p. 704.
- Ware, Paul, New York, N. Y., assignor to Ware Radio, Inc. Cut-in system of radiotelegraphy. No. 1,379,144; May 24; v. 286; p. 710.
- Ware Radio, Inc. (See Hazeltine, Louis A., assignor.)
- Ware Radio, Inc. (See Ware, Paul, assignor.)
- Ware, W. Fred, et al. (See Mayne, John, assignor.)
- Ware, William P., Alderson, W. Va. Railway street and road crossing. No. 1,390,182; Sept. 6; v. 290; p. 126.
- Ware, William P., Alderson, W. Va. Combined tie-plate and rail-anchor. No. 1,395,691; Nov. 1.
- Waream, Charles E. (See Braley, C. L., and Waream.)



*Alphabetical list of patentees—Continued.*

- Waream, Charles E., Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Garment-press. No. 1,392,375; Oct. 4.
- Waream, Charles E., assignor to American Laundry Machinery Company, Norwood, Ohio. Collar-shaper. No. 1,397,303; Nov. 15.
- Waream, Charles E., Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Feeding mechanism for hosiery-presses. No. 1,400,645; Dec. 20.
- Waream, C. E., and G. N. Link, Cincinnati, assignors to The American Laundry Machinery Company, Norwood, Ohio. Pressing-machine. No. 1,374,261; Apr. 12; v. 285; p. 211.
- Waream, Charles E., and G. N. Link, assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing-machine. No. 1,385,057; July 19; v. 288; p. 503.
- Waream, Charles E., and C. L. Braley, assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Pressure attachment for garment-presses. No. 1,386,665; Aug. 9; v. 289; p. 210.
- Waream, Charles E., Cincinnati, and D. H. Benjamin, Cleveland Heights, assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Ironing-machine. No. 1,388,984; Aug. 30; v. 289; p. 834.
- Waream, Charles E., Cincinnati, and D. H. Benjamin, Cleveland Heights, Ohio, assignors to The American Laundry Machinery Company, Norwood, Ohio. Ironing-machine. No. 1,398,248; Nov. 29.
- Wareham, Samuel L., and J. F. Panzer, Detroit, Mich. Overhead rotary valve for internal-combustion engines. No. 1,384,416; July 12; v. 288; p. 289.
- Wareing, J., and A. Hill, Rochdale, England. Impeller for centrifugal pumps. No. 1,383,354; July 5; v. 288; p. 20.
- Wares, James B., Omaha, Nebr. Automatic flush. No. 1,380,086; May 31; v. 286; p. 962.
- Waring, Edward M., Brooklyn, N. Y. Cutting-machine. No. 1,384,107; July 12; v. 288; p. 225.
- Waik, Samuel, Orting, Wash. Washing apparatus. No. 1,369,591; Feb. 22; v. 283; p. 672.
- Warman, Harry, Cleveland, Ohio. Vitreous-coated shingle and the like. No. 1,373,217; Mar. 29; v. 284; p. 873.
- Warmouth, George W., Indianapolis, Ind. Paving-block construction. No. 1,369,067; Feb. 22; v. 283; p. 571.
- Warmoth, George W., Indianapolis, Ind. Wood-block paving. (Reissue.) No. 15,240; Nov. 29.
- Warne, Arthur S., Vancouver, British Columbia, Canada. Camera-shutter release. No. 1,395,214; Oct. 25.
- Warne, Frederick C., assignor to Roderick Lean Manufacturing Company, Mansfield, Ohio. Tractor-drawn tillage implement. No. 1,384,790; July 19; v. 288; p. 448.
- Warner, Arthur W., Media, Pa., assignor to The American Gas Company of New Jersey, Camden, N. J. Retort-stoking apparatus. No. 1,401,295; Dec. 27.
- Warner, Bruce M., Jackson, Mich. Tire-holder. No. 1,387,525; Aug. 16; v. 289; p. 434.
- Warner, Charles K., Oakmont, Pa. Wire-reel. No. 1,394,382; Oct. 18.
- Warner, Charles N., New York, N. Y. Diaphragm-mounting. No. 1,372,054; Mar. 22; v. 284; p. 605.
- Warner, Edgar E., Milwaukee, Wis. Buffer for motor-driven vehicles. No. 1,387,874; Aug. 16; v. 289; p. 504.
- Warner, Edgar T., St. Michaels, Md. Ignition. No. 1,376,057; Apr. 26; v. 285; p. 651.
- Warner, Edwin G., Chicago, Ill. Automobile-theft alarm. No. 1,367,337; Feb. 1; v. 283; p. 91.
- Warner Elevator Manufacturing Company, The. (See Young, George P., assignor.)
- Warner Elevator Mfg. Company. (See Shepard, Oscar F., assignor.)
- Warner, Emerson R., Bowerston, Ohio. Combined clothes-line support and reel. No. 1,373,279; Mar. 29; v. 284; p. 886.
- Warner, Emill, Chicago, Ill. Forming metallic tubes. No. 1,378,639; May 17; v. 286; p. 541.
- Warner, Frederick D., Middletown, N. Y. Mechanical starter for internal-combustion engines. No. 1,389,108; Aug. 30; v. 289; p. 858.
- Warner, Frederick W., Toronto, Ontario, Canada. Automatic gas-valve for water-heaters. No. 1,385,853; July 26; v. 288; p. 742.
- Warner, John C. (See Smith, B. H., and Warner.)
- Warner, Joseph H., Nhili, Victoria, Australia. Draft attachment for stump-jump plows and the like. No. 1,381,039; June 7; v. 287; p. 138.
- Warner, Joseph H., Nhili, Victoria, Australia. Stump-jump plow and the like. No. 1,381,040; June 7; v. 287; p. 138.
- Warner, Joseph H., Nhili, Victoria, Australia. Shock-absorbing device for stump-jump plows and the like. No. 1,381,041; June 7; v. 287; p. 138.
- Warner, Julius H., assignor to The Sessions Clock Company, Forestville, Conn. Pivot-bearing construction. No. 1,368,670; Feb. 15; v. 283; p. 455.
- Warner, Lawrence E. (See Mooers, B. M., and Warner.)
- Warner, Leroy J., Chicago, Ill. Inking-roll truck. No. 1,371,714; Mar. 15; v. 284; p. 484.
- Warner, Leroy J., Fostoria, Ohio. Gripper-arm. No. 1,387,026; Aug. 9; v. 289; p. 283.
- Warner, Leroy J., Toledo, Ohio. Garden-tractor. No. 1,392,992; Oct. 11.
- Warner, Leroy J., North Chicago, Ill. Printing-press inking-roller truck. No. 1,395,317; Nov. 1.
- Warner, Leroy J., North Chicago, Ill. Wheel for printing-press inking-roller trucks. No. 1,395,318; Nov. 1.
- Warner Manufacturing Company. (See Cadman, Addi B., assignor.)
- Warner, Noah L., assignor to The Reliable Match Company, Ashland, Ohio. Machine for packing matches. No. 1,391,225; Sept. 20; v. 290; p. 490.
- Warner, Russell G. (See Howe, F. C., and Warner.)
- Warner, Sotorious D., Kokomo, Ind. Resilient wheel. No. 1,376,788; May 3; v. 286; p. 77.
- Warner, Violet V., New York, N. Y. Comb. No. 1,400,468; Dec. 13.
- Warner, William D., Columbus, Ohio. Display-rack. No. 1,364,333; Jan. 4; v. 282; p. 56.
- Warner, William D., Columbus, Ohio. Carbureter control. No. 1,373,469; Apr. 5; v. 285; p. 17.
- Warner, William D., Columbus, Ohio, assignor of one-half to H. J. Fairchild, Kalamazoo, Mich. Carbureter control. No. 1,400,110; Dec. 13.
- Warner, William T. S., Yuma, Ariz. Combined drill and underreamer. No. 1,372,379; Mar. 22; v. 284; p. 667.
- Warnock, Robert, assignor to Empire Cream Separator Company, Bloomfield, N. J. Air-pump. No. 1,396,079; Nov. 8.
- Warnock, Wallace S., Chicago, Ill. Device for regulating the temperature of ink-rollers. No. 1,369,507; Feb. 22; v. 283; p. 655.
- Warnock, Wallace S., Chicago, Ill. Printing-plate holder. No. 1,382,151; June 21; v. 287; p. 457.
- Warnock, Wallace S., Chicago, Ill. Printing-plate holder. No. 1,382,152; June 21; v. 287; p. 457.
- Warnock, Wallace S., Chicago, Ill. Steam-producer. No. 1,398,986; Dec. 6.
- Warnock, William, Company. (See Thrasher, Paul B., assignor.)
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,368,979; Feb. 15; v. 283; p. 514.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,368,980; Feb. 15; v. 283; p. 514.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,372,852; Mar. 29; v. 284; p. 800.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,376,490; May 3; v. 286; p. 21.
- Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,389,721; Sept. 6; v. 290; p. 33.
- Warren, Al L. (See Wildhaber, F., and Warren.)
- Warren, Clarence A., Independence, Mo. Antiskid device. No. 1,371,956; Mar. 15; v. 284; p. 529.
- Warren, Clinton J., Winchester, Mass. Automobile-handling device for garages and the like. No. 1,392,610; Oct. 4.
- Warren Clock Company. (See Warren, Henry E., assignor.)
- Warren, Frank D., assignor to The Domestic Utility Corporation, Colorado Springs, Colo. Paring-knife. No. 1,374,167; Apr. 5; v. 285; p. 152.
- Warren, Henry E., assignor to Warren Clock Company, Ashland, Mass. Apparatus for regulating frequency. No. 1,390,318; Sept. 13; v. 290; p. 244.
- Warren, Henry E., assignor to Warren Clock Company, Ashland, Mass. Self-starting synchronous motor. No. 1,390,319; Sept. 13; v. 290; p. 245.
- Warren, Henry E., assignor to Warren Clock Company, Ashland, Mass. Self-starting synchronous motor. No. 1,390,320; Sept. 13; v. 290; p. 245.
- Warren, Herbert W., Osseo, Mich. Changeable-speed gear. No. 1,395,067; Oct. 25.
- Warren, James P. (See Church, A. B., and Warren.)
- Warren, John B., New York, N. Y. Illuminated darning-egg. No. 1,373,388; Mar. 29; v. 284; p. 907.
- Warren, Joseph. (See Hagenmiller, George T., assignor.)
- Warren, Joseph A., Manchester, N. H. Tank-closure. No. 1,366,854; Jan. 25; v. 282; p. 674.
- Warren, Lillian G., Westwood, Calif. Garter. No. 1,382,446; June 21; v. 287; p. 514.
- Warren Webster & Company. (See Fitts, J. L., and Bilyeu, assignors.)
- Warren Webster & Company. (See Fitts, James L., assignor.)
- Warrick, James P. (See Tierney, Jack J., assignor.)
- Warring, Charles A., Cleveland, Ohio. Direction-indicator. No. 1,396,304; Nov. 8.
- Warrington, Samuel W., El Paso, Tex. Snap-fastener. No. 1,366,105; Jan. 18; v. 282; p. 482.
- Warrington, William J., assignor of two-ninths to L. E. Tonglet, two-ninths to E. J. McGinnis, and two-ninths to C. G. Gaspard, New Orleans, La. Drier. No. 1,377,644; May 10; v. 286; p. 297.
- Warry, Albert E., Birkenhead, England. Crutch applicable also for use as a walking-stick or elbow-crutch. No. 1,400,394; Dec. 13.
- Warschavsky, Aaron W. H., Brooklyn, N. Y. Wave-motor. No. 1,379,145; May 24; v. 286; p. 710.
- Warshaw, Nathan, New York, N. Y. Easel. No. 1,380,614; June 7; v. 287; p. 55.
- Warshawsky, Jacob, assignor of one-half to A. Rodak, New York, N. Y. Rain-shield. No. 1,391,925; Sept. 27; v. 290; p. 704.



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- Warter, Frank A., Perth Amboy, N. J. Screwdriver. No. 1,371,280; Mar. 15; v. 284; p. 398.
- Warter, Frank A., Perth Amboy, N. J. Valve. No. 1,385,058; July 19; v. 288; p. 504.
- Warwick, Rogers M., assignor to General Wire Tie Co., Company, Chicago, Ill. Rail-anchor. No. 1,372,852; Mar. 29; v. 284; p. 800.
- Warwick, Rogers M., assignor to General Wire Tie Co., Chicago, Ill. Bag-tying machine. No. 1,373,470; Apr. 5; v. 285; p. 18.
- Warzecha, Ludwik, Barnum, Minn. Grinder. No. 1,370,770; Mar. 8; v. 284; p. 238.
- Waschek, Frank, Hamtramck, Mich. Rail-clamp. No. 1,390,030; Sept. 27; v. 290; p. 727.
- Washbourne, William H. (See Eddy, Ray L., assignor.)
- Washburn, Edwin C., Englewood, N. J. Truck-bolster. No. 1,367,645; Feb. 8; v. 283; p. 209.
- Washburn, Edwin C., Englewood, N. J. Truck side frame. No. 1,367,646; Feb. 8; v. 283; p. 209.
- Washburn, Edwin C., Englewood, N. J. Sealed padlock. No. 1,367,647; Feb. 8; v. 283; p. 209.
- Washburn, Frank S., Rye, assignor to American Cyanamid Company, New York, N. Y. Fertilizer and producing the same. No. 1,367,846; Feb. 8; v. 283; p. 248.
- Washburn, Frank S., Rye, assignor to American Cyanamid Company, New York, N. Y. Sintering phosphatic materials. No. 1,373,471; Apr. 5; v. 285; p. 18.
- Washburn, Frank S., Rye, assignor to American Cyanamid Company, New York, N. Y. Producing ferrocyanids. No. 1,398,453; Nov. 29.
- Washburn, Fred, deceased; M. A. Washburn, administratrix, New Haven, Conn. Sand-blast device. No. 1,400,585; Dec. 20.
- Washburn, George P., Los Angeles, Calif. Molding apparatus for battery strap-posts. No. 1,392,884; Oct. 4.
- Washburn, Margaret A., administratrix. (See Washburn, Fred.)
- Washburne, Alva C., *et al.* (See Hammond, Grant, assignor.)
- Washburne, James V., Fulton, N. Y. Two-part dispensing desk device. No. 1,392,993; Oct. 11.
- Washburne, William H., assignor to Self-Seating Valve Company, Chicago, Ill. Valve. No. 1,367,444; Feb. 1; v. 283; p. 112.
- Washington, Bowden. (See Cutting, F., and Washington.)
- Washington, George, assignor of one-fourth to L. Smith, Anderson, Tex. Nail-staple for barbed wire. No. 1,389,540; Aug. 30; v. 289; p. 945.
- Washington, George E. and H. Manchester, England. Audible alarm or indication apparatus. No. 1,400,113; Dec. 13.
- Washington, Harold. (See Washington, George E. and H.)
- Washington Iron Works. (See Berger, Knute, assignor.)
- Washington Machinery and Supply Company. (See True, Sylvester W., assignor.)
- Washington Manufacturing Company. (See Hammer, Knott, and Jungbluth, assignors.)
- Wasserfallen, Charles F., assignor to Detroit Tire Carrier Co., Detroit, Mich. Tire-rim carrier. No. 1,384,222; July 12; v. 288; p. 249.
- Wasserlein, Froes Company. (See Wasserlein, Victor E., assignor.)
- Wasserlein, Victor E., New York, N. Y., assignor to Wasserlein, Froes Company, Inc. Fuel-control valve for carbureters. No. 1,374,262; Apr. 12; v. 285; p. 212.
- Wasserlein, Victor E., New York, N. Y., assignor to Wasserlein, Froes Company, Inc. Carbureter fuel control. No. 1,392,724; Oct. 4.
- Wasserman, Samuel, London, England. Radiator-shield. No. 1,372,055; Mar. 22; v. 284; p. 605.
- Wasserstein, Joseph, assignor of one-half to L. Bender, Brooklyn, N. Y. Sewing-machine. No. 1,366,684; Jan. 25; v. 282; p. 640.
- Wasson, Frank A. (See Pfeiffer, C., and Wasson.)
- Wasson, Joseph P., L. A. Wood, and N. Nelson, King City, Calif. Traction-chain. No. 1,364,467; Jan. 4; v. 282; p. 82.
- Wastun, Cornelius O., *et al.* (See Corbett, George W., assignor.)
- Wasyliv, Bem, assignor of one-fourth to C. Kurtenbach and one-fourth to F. Kurtenbach, Cudworth, Saskatchewan, Canada. Dough-mixing machine. No. 1,370,173; Mar. 1; v. 284; p. 79.
- Wasyluk, John, and A. Burak, Chicago, Ill. Bathtub. No. 1,364,164; Jan. 4; v. 282; p. 23.
- Watanabe, Masanori. (See Tamure, S. K., and Watanabe.)
- Watanabe, Masanori, assignor to Kyokuto Jidosha Kogyo Co., Ltd., Tokio, Japan. Entrance device for automobile car bodies. No. 1,386,976; Aug. 9; v. 289; p. 273.
- Watchorn, Harry L. J., G. H. Roberts, and M. Raker, Coutts, Alberta, Canada. Safety attachment to tractors. No. 1,373,691; Apr. 5; v. 285; p. 60.
- Waterbury Brass Goods Corporation, The. (See Williams, Arthur L., assignor.)
- Waterbury Buckle Co. (See Webb, C. M., and Miller, assignors.)
- Waterbury Clock Co. (See Horn, Ernest H., assignor.)
- Waterbury Clock Co. (See Lathrop, Harold L., assignor.)
- Waterbury Clock Co. (See Wehinger, Frederick, assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Candee, Zenas F., assignor.)
- Waterbury Farrel Foundry and Machine Company, The. (See Pierson, William D., assignor.)
- Waterfield, Frank. (See Olsen, G. J., and Waterfield.)
- Waterhouse, Charles N., Muncie, Ind. Wood wheel. No. 1,387,568; Aug. 16; v. 289; p. 442.
- Waterhouse, Edward P., St. Louis, Mo. Sectional record-sorter. No. 1,379,790; May 31; v. 286; p. 905.
- Waterhouse, George M., Jr. (See Waterhouse, George M., Sr., assignor.)
- Waterhouse, George M., Sr., New York, N. Y., assignor of one-half to G. M. Waterhouse, Jr., Wildwood, Pa. Trolley-controlling mechanism. No. 1,372,920; Mar. 29; v. 284; p. 815.
- Waterhouse, Harold D., West Hartford, Conn. Current-distributor for internal-combustion engines. No. 1,379,584; May 24; v. 286; p. 792.
- Waterhouse, Harold D., Wollaston, Mass., assignor, by mesne assignments, to W. S. and J. Crane, and F. V. Stone, trustees. Automatic primer for gasoline-engines. No. 1,365,755; Jan. 18; v. 282; p. 413.
- Waterhouse, Harold D., Quincy, Mass., assignor, by mesne assignments, to W. S. Crane, J. Crane, and F. V. Stone, trustees. Ignition apparatus. No. 1,381,773; June 14; v. 287; p. 327.
- Waterize Chemical and Manufacturing Company, The. (See Brauser, O. H., and Oakes, assignors.)
- Waterloo Gasoline Engine Company. (See Witry, Louis W., assignor.)
- Waterman, Abraham, assignor of one-half to David Waterman, Chicago, Ill. Ventilated garments. No. 1,381,373; June 14; v. 287; p. 251.
- Waterman, Benjamin F., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Gear-cutting machine. No. 1,364,597; Jan. 4; v. 282; p. 106.
- Waterman, Charles A., Boston, and H. F. Smith, Medford, Mass. Motorcycle-saddle. No. 1,384,791; July 19; v. 288; p. 448.
- Waterman, David. (See Waterman, Abraham, assignor.)
- Waterman, Herbert A., Liberal, Mo. Bale-fork. No. 1,395,592; Nov. 1.
- Waterman, Howard L. (See Waterman, L. E., Traphagen, and Waterman.)
- Waterman, J. S., *et al.* (See Smith, Adelbert, assignor.)
- Waterman, L. E., Company. (See Aston, Archer, assignor.)
- Waterman, L. E., H. R. Traphagen, and H. L. Waterman, assignors to Emerson-Brantingham Company, Rockford, Ill. Running-gear for motor-vehicles. No. 1,374,412; Apr. 12; v. 285; p. 412.
- Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Wheel-adjusting mechanism for agricultural implements. No. 1,381,374; June 14; v. 287; p. 252.
- Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Power-lift plow. No. 1,384,792; July 19; v. 288; p. 448.
- Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Cultivator. No. 1,391,227; Sept. 20; v. 290; p. 449.
- Waterman, Mabel, New Rochelle, N. Y. Toy animal. No. 1,392,725; Oct. 4.
- Waterman, Malcolm T., Cedar Rapids, Iowa. Towing device. No. 1,390,942; Sept. 13; v. 290; p. 370.
- Waters, Edward, Capreol, Ontario, Canada. Railway-tie. No. 1,392,376; Oct. 4.
- Waters, George E., and G. M. Stevenson, Baltimore, Md. Lumber-truck. No. 1,390,321; Sept. 13; v. 290; p. 245.
- Waters, John F., Chicago, Ill. Food product. No. 1,381,526; June 14; v. 287; p. 280.
- Waters, William, *et al.* (See Johnson, Bruce P., assignor.)
- Waters, William R., Davenport, Iowa. Belt-stretching devices. No. 1,396,305; Nov. 8.
- Waters, William R., Davenport, Iowa. Belt-stretcher. No. 1,396,306; Nov. 8.
- Waterstrout, Martin, Quincy, Mich. Game. No. 1,372,211; Mar. 22; v. 284; p. 635.
- Watriviet Tool Company. (See Spade, William P., assignor.)
- Watkins Appliance Company. (See Watkins, William F., assignor.)
- Watkins, Charles W., Dorrancetown, Pa. Switch for telephone-lines. No. 1,383,355; July 5; v. 288; p. 20.
- Watkins, Edmond M., Trenton, N. J. Fastener. No. 1,398,288; Nov. 29.
- Watkins, Gustav H., Jacksonville, Fla. Spanner-wrench. No. 1,384,684; July 12; v. 288; p. 346.
- Watkins, Harold E., Stone Legh, Newton-le-Willows, England. Aeroplane level or position indicator. No. 1,378,744; May 17; v. 286; p. 562.
- Watkins, Henry E., Oakland, Calif., assignor to Frank A. Weeks Mfg. Co., New York, N. Y. Pencil attachment. No. 1,392,468; Oct. 4.
- Watkins, John M., and F. Anderson, Montrose, Colo. Chain-fastener. No. 1,389,464; Aug. 30; v. 289; p. 929.
- Watkins, Laurence F., and G. W. Wilton, Wellington, New Zealand. Bottle-stopper. No. 1,375,030; Apr. 19; v. 285; p. 423.
- Watkins, Sylvester A., London, assignor to T. T. Russell, Liverpool, England. Click or detent. No. 1,380,027; May 31; v. 286; p. 951.



*Alphabetical list of patentees—Continued.*

- Watkins, Thomas W., Kansas City, Mo. Portable grinding and polishing machine. No. 1,386,820; Aug. 9; v. 289; p. 242.
- Watkins, Verna O., Atlanta, Ga. Educational board. No. 1,392,726; Oct. 4.
- Watkins, William F., assignor to Watkins Appliance Company, Inc., Seattle, Wash. Soap-fastener. No. 1,389,173; Aug. 30; v. 289; p. 872.
- Watkinson, Albert, Kyneton, Australia. Indicator means for use on recreation-grounds or race-courses. No. 1,393,414; Oct. 11.
- Watremez, Emile T. J., Ovilley, par Senlis, France. Scouring vegetable fibers, &c. No. 1,370,076; Mar. 1; v. 284; p. 61.
- Watres, Lewis S., Scranton, Pa., assignor of one-half to R. C. Adams, Forest Hills, N. Y. Throttle-valve indicator. No. 1,392,994; Oct. 11.
- Watrous, Earl G., Chicago, Ill. Flushing-valve. No. 1,379,231; May 24; v. 286; p. 726.
- Watrous, Earl G., Chicago, Ill. Flushing-valve. No. 1,382,814; June 28; v. 287; p. 638.
- Watrous, Isaac A., Bridgeport, Conn. Scraper for cleaning irregular surfaces. No. 1,387,027; Aug. 9; v. 289; p. 283.
- Watrous, Isaac A., Bridgeport, Conn. Electrically-operated machine for scraping irregular wooden surfaces. No. 1,392,543; Oct. 4.
- Watrous, Martin D., Ansonia, Conn. Trolley-pole. No. 1,374,047; Apr. 5; v. 285; p. 130.
- Watrous, Paul J., Pasadena, Calif., assignor of one-half to R. B. Watrous, New York, N. Y. Form employed in transfer systems. No. 1,370,936; Mar. 8; v. 284; p. 269.
- Watrous, Richard B. (See Watrous, Paul J., assignor.)
- Watson, Arthur F., Cheboygan, Mich. Pinch-bar. No. 1,401,214; Dec. 27.
- Watson, Bazel R., Everett, Wash. Saw-handle. No. 1,383,503; July 5; v. 288; p. 50.
- Watson, Charles R., deceased, New York, N. Y. S. A. Watson, executrix. Undergarment. No. 1,376,381; Apr. 26; v. 285; p. 712.
- Watson, Chauncey R., et al. (See Hachmann, Frederick, assignor.)
- Watson, Chester A., Ballinger, Tex. Lifting-jack. No. 1,377,950; May 10; v. 286; p. 358.
- Watson, Edgar, Chicago, Ill. Display-rack. No. 1,388,010; Aug. 16; v. 289; p. 530.
- Watson, Edgar R., Jersey City, N. J. Miniature-mill-race toy. No. 1,368,671; Feb. 15; v. 283; p. 455.
- Watson, Edward F. (See Pfannenstiel, H., and Watson.)
- Watson, Edward F., Yonkers, N. Y., assignor to American Telephone & Telegraph Company. Indicating mechanism. No. 1,386,977; Aug. 9; v. 289; p. 273.
- Watson, Ernest A., Coventry, assignor to The C. L. I. Manufacturing Company, Limited, Birmingham, England. Dynamo. No. 1,375,192; Apr. 19; v. 285; p. 454.
- Watson, Ernest A., Coventry, assignor to The C. L. I. Manufacturing Company, Limited, Birmingham, England. Magneto-electric machine. No. 1,379,496; May 24; v. 286; p. 776.
- Watson, Frank A., Springfield, Ohio. Collapsible-tire core. No. 1,382,035; June 21; v. 287; p. 436.
- Watson, George W., London, and N. B. Ludlow, Worcester, England. Pressed-steel detachable wheel. No. 1,387,632; Aug. 16; v. 289; p. 455.
- Watson, Glenn C., Cleveland, Ohio. Automatic rifle. No. 1,377,236; May 10; v. 286; p. 219.
- Watson, Harvey L., Indianapolis, Ind., assignor, by mesne assignments, to C. M. Hall Lamp Company. Control mechanism. No. 1,401,744; Dec. 27.
- Watson, J. Stewart, et al. (See McGehee, Ira E., assignor.)
- Watson, James, Marinette, Wis. Stovepipe-joint. No. 1,376,364; Apr. 26; v. 285; p. 710.
- Watson, John R., Fort William, Ontario, Canada. Bed. No. 1,365,876; Jan. 18; v. 282; p. 438.
- Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,327; Aug. 30; v. 289; p. 902.
- Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,328; Aug. 30; v. 289; p. 903.
- Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,329; Aug. 30; v. 289; p. 903.
- Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,330; Aug. 30; v. 289; p. 903.
- Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,331; Aug. 30; v. 289; p. 903.
- Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,332; Aug. 30; v. 289; p. 903.
- Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,333; Aug. 30; v. 289; p. 904.
- Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,334; Aug. 30; v. 289; p. 904.
- Watson, Leonard A., Sound Beach, Conn., assignor to The Safety Car Heating and Lighting Company, New York, N. Y. Car-lighting system. No. 1,401,451; Dec. 27.
- Watson, Oliver E., Dayton, Ohio. Reinforcing means for automobile radius-rods. No. 1,376,058; Apr. 26; v. 285; p. 651.
- Watson, Pasher W., Selbyville, Del. Burial-vault. No. 1,365,806; Jan. 18; v. 282; p. 424.
- Watson, Ralph O., Jersey City, N. J. Piston-pin lock. No. 1,381,260; June 14; v. 287; p. 230.
- Watson, Robert. (See Nelson, J., and Watson.)
- Watson, Rommie P., Wilson, N. C. Tool for heading hogs-heads. No. 1,384,650; July 12; v. 288; p. 339.
- Watson, Sallie A., executrix. (See Watson, Charles R.)
- Watson, Strother, Gallatin, Tenn. Marker for corn-planters. No. 1,399,677; Dec. 6.
- Watson, Thomas, and C. F. Webb, Kentish Town, London, England. Clock mechanism. No. 1,368,004; Feb. 8; v. 283; p. 277.
- Watson Wagon Company. (See Keesler, C. C., and Clock, assignors.)
- Watson Wagon Company. (See Keesler, Clyde C., assignor.)
- Watson, Walter C. (See Hakes, Hudson W., assignor.)
- Watson, Warren N. (See De Long, C. R., and Watson.)
- Watson, William L., McKenzie, N. D. Automatic controller-shifting mechanism. No. 1,371,655; Mar. 15; v. 284; p. 472.
- Watson, William U., Chicago, Ill. Grease-gun. No. 1,374,263; Apr. 12; v. 285; p. 212.
- Watson, William V., assignor of one-half to San Diego Consolidated Gas and Electric Company, San Diego, Calif. Plastic composition and making the same. No. 1,398,613; Nov. 29.
- Watt, Delton C., Danville, and F. A. Grearson, Barre, Vt. Vehicle-top attachment. No. 1,376,491; May 3; v. 286; p. 21.
- Watt, Elwyn M., Summerton, S. C. Composition. No. 1,387,569; Aug. 16; v. 289; p. 442.
- Watt, Fredrick, assignor of one-third to T. J. Pembor, Chicago, Ill. Anchor. No. 1,365,011; Jan. 11; v. 282; p. 231.
- Watt, Fredrick, assignor of one-third to T. J. Pembor, Chicago, Ill. Bracket. No. 1,365,012; Jan. 11; v. 282; p. 231.
- Watt, Glenn T., Minden, Nebr. Motor-vehicle lock. No. 1,385,030; July 19; v. 288; p. 498.
- Watt, James A. (See Youngren, O. A., and Watt.)
- Watt, W. W. (See Larsen, Lauritz H., assignor.)
- Watt, Stuart G., Geraldine, Mont. Fastening device. No. 1,396,233; Nov. 8.
- Wattel, Achille L. F., Sevres, France. Automobile-locking apparatus. No. 1,395,881; Nov. 1.
- Watters, Alec. (See Helle, Warren W., assignor.)
- Watters, John H., Anniston, Ala. Track-sander. No. 1,396,307; Nov. 8.
- Watters, William W., New Rochelle, N. Y. Interchangeable-initial plate. No. 1,387,217; Aug. 9; v. 289; p. 319.
- Watterson, William A., Euchareena, New South Wales, Australia. Apparatus for economizing fuel. No. 1,384,223; July 12; v. 288; p. 249.
- Watterworth, John A., Duluth, Minn. Pulling and holding device. No. 1,389,335; Aug. 30; v. 289; p. 904.
- Wattleworth, Charles. (See Glennon, W. K., and Wattleworth.)
- Watts, Albert E., Montreal, Quebec, Canada. Piston-inserting device. No. 1,375,744; Apr. 26; v. 285; p. 591.
- Watts, Albert E., Dorval, Quebec, Canada. Spark-plug. No. 1,375,807; Apr. 26; v. 285; p. 602.
- Watts, Alfred E. (See Merritt, F. W., and Watts.)
- Watts, George W., Hot Springs, Ark. Domestic cooking vessel. No. 1,399,094; Dec. 6.
- Watts, James R., New Castle, Del., assignor to American Manganese Steel Company, Augusta, Me. Sheave, sprocket, or gear construction. No. 1,378,156; May 17; v. 286; p. 449.
- Watts, Thomas A., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Supporting-brace for covers. No. 1,378,298; May 17; v. 286; p. 476.
- Watts, William R. (See Taylor, W. H., and Watts.)
- Waugh, Edward H., assignor to Smith Cannery Machines Co., Seattle, Wash. Fish-dressing machine. No. 1,365,575; Jan. 11; v. 282; p. 339.
- Waugh, Edward H., assignor to Smith Cannery Machines Company, Seattle, Wash. Scraper for fish-dressing machines. No. 1,384,877; July 19; v. 288; p. 466.
- Waugh, James M., Chicago, Ill. Transmission-gear. No. 1,382,697; June 28; v. 287; p. 616.
- Waugh, James M., Chicago, Ill. Resilient transmission-gear. No. 1,382,698; June 28; v. 287; p. 616.
- Waugh, John T., East San Diego, Calif. Turbine. No. 1,391,434; Sept. 20; v. 290; p. 532.



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- Wavrin, John A., St. Louis, Mo., assignor to Dentists' Supply Company. Gage for selecting artificial teeth. No. 1,378,745; May 17; v. 286; p. 562.
- Way, John H., Philadelphia, Pa. Pneumatic riveting-hammer. No. 1,364,165; Jan. 4; v. 282; p. 23.
- Wayda, Peter, Aurora, assignor to L. Moss, Chicago, Ill. Steering device. No. 1,390,322; Sept. 13; v. 290; p. 245.
- Wayne Oil Tank and Pump Company. (See Baker, Linnaeus E., assignor.)
- Wayne Tool Manufacturing Company. (See Bellringer, Sidney M., assignor.)
- Wayne Tool Manufacturing Company. (See Logan, Marselius J., assignor.)
- Weagant, Roy A., Roselle, N. J., assignor, by mesne assignments, to Radio Corporation of America. Vacuum-valve detector. No. 1,379,706; May 31; v. 286; p. 890.
- Weagant, Roy A., Roselle township, Union county, N. J., assignor, by mesne assignments, to Radio Corporation of America. Vacuum-valve detector. No. 1,380,206; May 31; v. 286; p. 984.
- Weagant, Roy A., Roselle Park, N. J., assignor, by mesne assignments, to Radio Corporation of America. Means for generating electrical oscillation. No. 1,384,108; July 12; v. 288; p. 225.
- Weagant, Roy A., New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America. Radio-signaling apparatus. No. 1,389,800; Sept. 6; v. 290; p. 48.
- Wearham, Gordon A., London, England. Coupling means for releasably suspending a mass. No. 1,383,252; June 28; v. 287; p. 721.
- Weasler, Joseph, Cascade, Wis. Baby-carriage. No. 1,385,959; July 26; v. 288; p. 762.
- Weatherill, Ambrose, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Apparatus for attaching tire-bases to rims. No. 1,394,186; Oct. 18.
- Weatherly, Bessie M., Rome, Ga. Doll. No. 1,388,677; Aug. 26; v. 289; p. 718.
- Weatherly, Sidney M., and H. J. Stach, Hartford; said Stach assignor of his right to National Machine Company, Hartford, Conn. Electric embossing-plate heater. No. 1,375,544; Apr. 19; v. 285; p. 521.
- Weaver, Bertha H., Texarkana, Tex. Combination furnace and cook-stove. No. 1,383,043; June 28; v. 287; p. 682.
- Weaver, Charles E., Cleveland, Ohio, assignor to The American Store Company, St. Louis, Mo. Clamping-stem for bicycle handle-bars. No. 1,364,496; Jan. 4; v. 282; p. 87.
- Weaver, Charles H., Beaumont, Tex. Train-line valve. No. 1,389,465; Aug. 30; v. 289; p. 930.
- Weaver, Clayton B., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Sheet-metal-bending machine. No. 1,384,814; July 19; v. 288; p. 453.
- Weaver, Della M., Los Angeles, Calif. Direction-indicator. No. 1,371,532; Mar. 15; v. 284; p. 449.
- Weaver, Eber O. (See Weaver, Fred E., assignor.)
- Weaver, Elmus E., assignor to Weaver Spring Company, Boise, Idaho. Spring suspension mechanism for vehicles. No. 1,401,840; Dec. 27.
- Weaver, Elmus E., assignor to Weaver Spring Company, Boise, Idaho. Spring suspension for vehicles. No. 1,401,841; Dec. 27.
- Weaver, Elmus E., assignor to Weaver Spring Company, Boise, Idaho. Spring-tensioning mechanism. No. 1,401,842; Dec. 27.
- Weaver, Elverton W., Cleveland Heights, Ohio. Resilient bumper-bar. No. 1,380,615; June 7; v. 287; p. 55.
- Weaver, Elverton W., Cleveland Heights, Ohio. Bumper-bar. No. 1,380,616; June 7; v. 287; p. 55.
- Weaver, Fred E., Los Angeles, assignor of one-half to E. O. Weaver, Watts, Calif. Motion-picture apparatus. No. 1,367,109; Feb. 1; v. 283; p. 45.
- Weaver, George W., New York, N. Y. Hair-waver. No. 1,369,994; Mar. 1; v. 284; p. 46.
- Weaver, Harry. (See Baker, W. E. B., and Weaver.)
- Weaver, Henry T., Heart Lake, Alberta, Canada. Variable-speed drive. No. 1,370,389; Mar. 1; v. 284; p. 120.
- Weaver, Hugh R., Pittsburgh, Pa. Ironing-board. No. 1,369,861; Mar. 1; v. 284; p. 20.
- Weaver, Ira A., Springfield, assignor, by mesne assignments, to Thorne Brothers, Incorporated, Chicago, Ill. Gang-plow. No. 1,369,583; Feb. 22; v. 283; p. 671.
- Weaver, John W., Raleigh, N. C. Press bed-movement. No. 1,380,446; June 7; v. 287; p. 23.
- Weaver, Joseph B., and P. Parke, assignors to The Pullman Company, Chicago, Ill. Truck-pedestal. No. 1,400,586; Dec. 20.
- Weaver, Lucius E., assignor to Summit Thread Company, East Hampton, Conn. Sewing-machine shuttle. No. 1,386,146; Aug. 2; v. 289; p. 37.
- Weaver, Milburn C. (See Denson, Heard D., assignor.)
- Weaver, Paul, Tampico, and H. C. Craig, Portrero del Llamo Camp, Mexico, assignor of one-half to Whitehall Petroleum Corporation, Limited, London, England. Well. No. 1,389,920; Sept. 6; v. 290; p. 73.
- Weaver, Richard P., Carlisle, Pa. Reversible frog. No. 1,381,226; Sept. 20; v. 290; p. 490.
- Weaver, Richard P., Carlisle, Pa. Sectional railway crossing. No. 1,391,227; Sept. 20; v. 290; p. 490.
- Weaver, Robert R., assignor to General American Tank Car Corporation, Chicago, Ill. Tank-car. No. 1,394,956; Oct. 25.
- Weaver, S. Fullerton, *et al.*, trustees. (See Milliken, Foster, assignor.)
- Weaver Spring Company. (See Weaver, Elmus E., assignor.)
- Weaver, Thomas D., assignor to Humphries Manufacturing Company, Mansfield, Ohio. Power-pump. No. 1,383,885; July 5; v. 288; p. 130.
- Weaver, Thomas E. (See Kotrba, George C., assignor.)
- Weaver, Thomas J., Denver, Colo. Auto-towing device. No. 1,381,042; June 7; v. 287; p. 138.
- Weaver, Walter T., New York, N. Y. Binding-machine. No. 1,371,829; Mar. 15; v. 284; p. 505.
- Webb, Arthur B., assignor to W. N. Smith, Chicago, Ill. Endless track mechanism for vehicles. No. 1,399,369; Dec. 6.
- Webb, Benjamin F. (See Karl, A. J., and Webb.)
- Webb, Charles M., and T. Miller, assignors to Waterbury Buckle Co., Waterbury, Conn. Flexible clasp-button. No. 1,390,847; Sept. 13; v. 290; p. 350.
- Webb, Christopher F. (See Watson, T., and Webb.)
- Weber, Clifford A. M. (See Garcelon, G. H., and Weber.)
- Webb, Ernest E., assignor of one-third to G. D. Fryfole and one-third to E. H. Timanus, Baltimore, Md. Attachment for looms. No. 1,390,943; Sept. 13; v. 290; p. 370.
- Webb, Ernest H., New Brunswick, N. J. Universal joint. No. 1,388,225; Aug. 23; v. 289; p. 629.
- Webb, Fred E., Syracuse, N. Y. Self-closing stanchion. No. 1,395,882; Nov. 1.
- Webb, Henry F. (See Johnson, O. H., and Webb.)
- Webb, Irving F. (See Ostrom, F. W., and Webb, assignors.)
- Webb, Irving F., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Bag-sewing machine. No. 1,380,758; June 7; v. 287; p. 82.
- Webb, Irving F., Elizabeth, N. J., assignor to The Singer Manufacturing Company. Filled-sack-sewing machine. No. 1,401,296; Dec. 27.
- Webb, Jean F., Sr., New York, N. Y. Water-silencer. No. 1,383,886; July 5; v. 288; p. 130.
- Webb, Jean F., Sr., New York, N. Y. Vacuo-thermic body-treatment appliance. No. 1,399,095; Dec. 6.
- Webb, Jesse H., Rochester, N. Y. Rocking-horse. No. 1,370,569; Mar. 8; v. 284; p. 199.
- Webb, John G., Richmond, Va. Mold for plural castings. No. 1,389,722; Sept. 6; v. 290; p. 33.
- Webb, John L., assignor to M. M. Johnson, Salt Lake City, Utah. Windshield-cleaner. No. 1,379,232; May 24; v. 286; p. 726.
- Webb, John L., assignor to Webb Pump Company, Salt Lake City, Utah. Rotary pump. No. 1,382,580; June 21; v. 287; p. 539.
- Webb, John M., Flat, Tex. Pink-boll-weevil destroyer. No. 1,396,797; Nov. 15.
- Webb, John W., Athens, Ga. Seal and brace for boxes. No. 1,364,225; Jan. 4; v. 282; p. 34.
- Webb, John W., Chicago, Ill. Rail-joint. No. 1,371,585; Mar. 15; v. 284; p. 459.
- Webb, Purcell T., Timaru, New Zealand. Locking device for the nuts of bolts and the like. No. 1,390,944; Sept. 13; v. 290; p. 370.
- Webb Pump Company. (See Webb, John L., assignor.)
- Webb, Raymond L., Atchison, Kans. Saw-set. No. 1,386,821; Aug. 9; v. 289; p. 242.
- Webb, Robert D., Minden, La. Press. No. 1,370,570; Mar. 8; v. 284; p. 200.
- Webb, Robert D., Minden, La. Cotton-compress. No. 1,387,633; Aug. 16; v. 289; p. 455.
- Webb, Wade F., Kernville, Calif. Unloading-machine for railway-cars and the like. No. 1,368,081; Feb. 8; v. 283; p. 291.
- Webb, William C., Atlantic City, N. J. Electric sign. No. 1,386,822; Aug. 9; v. 289; p. 242.
- Webb, William F., assignor of one-half to E. A. Orr, Garden City, Kans. Engine-stopping device. No. 1,387,746; Aug. 16; v. 289; p. 478.
- Webb, William H., Randalstown, Ireland. Controlling device for power-transmission clutches. No. 1,374,413; Apr. 12; v. 285; p. 241.
- Webb, William W. (See Sternberg, R. B., and Webb.)
- Webber, Alfred, Portsmouth, England. Tobacco-pipe and cigar and cigarette holder. No. 1,373,849; Apr. 5; v. 285; p. 91.
- Webber, William, La Grange Ill., assignor, by mesne assignments, to International Harvester Company. Traction-wheel attachment. No. 1,388,985; Aug. 30; v. 289; p. 834.
- Webber, William A. (See Beavers, E., and Webber.)
- Webber, William S., Chicago, Ill. End-wrench. No. 1,390,408; Sept. 13; v. 290; p. 262.
- Weber, Alexander, Los Angeles, Calif., assignor to Sawyer-Weber Tool Manufacturing Company. Crank-pin-turning tool. No. 1,389,541; Aug. 30; v. 289; p. 945.
- Weber, Anton, Oakland, L. Voorsanger and A. Sells, San Francisco, Calif. Dispensing apparatus. No. 1,398,348; Nov. 29.
- Weber, Bernard F., and F. E. Woodford, Chicago, Ill.; said Woodford assignor, by mesne assignments, to R. C. Penfield, New York, N. Y. Hoisting and conveying grapple. No. 1,384,793; July 19; v. 288; p. 449.



- Weber, Charles, Newark, N. J., assignor to Perflex Products Corporation. Collapsible tube. No. 1,368,589; Feb. 15; v. 283; p. 439.
- Weber, Clifford A. M., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electromagnetic braking device. No. 1,392,032; Sept. 27; v. 290; p. 728.
- Weber, David. (See Scarborough, John H., assignor.)
- Weber, Edmund H., Ranier, Minn. Combined spark-plug terminal and protector. No. 1,376,844; May 3; v. 286; p. 88.
- Weber, Emil, Schwepnitz, Saxonia. Producing pastes that may be poured. No. 1,394,241; Oct. 18.
- Weber Engine Company. (See Gold, Samuel B., assignor.)
- Weber, Erwin, Milwaukee, Wis. Egg and cream beater. No. 1,372,578; Mar. 22; v. 284; p. 705.
- Weber, Erwin L., Seattle, Wash. Heating device. No. 1,365,807; Jan. 18; v. 282; p. 424.
- Weber, George W., Watertown, Wis. Hairpin. No. 1,374,264; Apr. 12; v. 285; p. 212.
- Weber, Guillaume, Hayange, assignor to Societe Les Petits Fils De Francois De Wendel Et Cie., Paris, France. Explosive. No. 1,375,243; Apr. 19; v. 285; p. 464.
- Weber, Guillaume, Hayange, assignor to Societe les Petits Fils De Francois De Wendel Et Cie., Paris, France. Explosive. No. 1,397,826; Nov. 22.
- Weber, Harry M., East Orange, N. J., assignor to Ellis-Foster Company. Making sulfur trioxid and apparatus therefor. No. 1,366,439; Jan. 25; v. 282; p. 591.
- Weber, Harry M., Bloomfield, N. J., assignor to Ellis-Foster Company. Chewing-gum and making same. No. 1,401,452; Dec. 27.
- Weber, Henry, assignor to Latham Machinery Company, Chicago, Ill. Universal work-support for stitching-machines. No. 1,382,036; June 21; v. 287; p. 437.
- Weber, Henry C. P., Edgewood, Pa. Producing metal substances. No. 1,373,038; Mar. 29; v. 284; p. 838.
- Weber, Henry L., Louisville, Ky. Signal. No. 1,365,860; Jan. 11; v. 282; p. 297.
- Weber, Jacob H., Brooklyn, N. Y. Phonograph-cabinet. No. 1,393,470; Oct. 11.
- Weber, Mathias J., assignor to Continental Scale Works, Chicago, Ill. Measuring device. No. 1,371,281; Mar. 15; v. 284; p. 398.
- Weber, Mathias J., assignor to Continental Scale Works, Chicago, Ill. Weighing-scale. No. 1,382,699; June 28; v. 287; p. 616.
- Weber, Mathias J., assignor to Continental Scale Works, Chicago, Ill. Weighing-scale. No. 1,383,504; July 5; v. 288; p. 51.
- Weber, Mathias J., assignor to Continental Scale Works, Chicago, Ill. Weighing and measuring device. No. 1,383,505; July 5; v. 288; p. 51.
- Weber, Otto L. E., St. Cloud, Minn. Truck. No. 1,377,865; May 10; v. 286; p. 341.
- Weber, Otto L. E., St. Cloud, Minn. Truck. No. 1,377,978; May 10; v. 286; p. 363.
- Weber, Ralph B., St. Charles, Mo. Radiator. No. 1,372,380; Mar. 22; v. 284; p. 667.
- Weber, Tobias, Los Angeles, Calif. Coupling. No. 1,375,266; Apr. 19; v. 285; p. 468.
- Weber, Walter S., assignor to W. H. Luden, Reading, Pa. Box-lining mechanism. No. 1,383,682; July 5; v. 288; p. 88.
- Weber, William H., Kokomo, Ind. Attachment for chairs and the like. No. 1,365,136; Jan. 11; v. 282; p. 254.
- Weber, William H., Kokomo, Ind. Attachment for chairs and the like. No. 1,401,019; Dec. 20.
- Weber, William W., Sacramento, Calif. Insulation-cutter. No. 1,396,903; Nov. 15.
- Webert, John H. F. (See Gabriel, Roeling, and Webert.)
- Webke, Charles, New York, N. Y. Candy-pressing machine. No. 1,392,863; Oct. 4.
- Webster, Bertha. *et al.* (See Morgan, John H., assignor.)
- Webster, Bester R. (See Madelbaum, M. H., and Webster.)
- Webster, Charles B., Fall River, Mass. Tire-valve compressor. No. 1,391,228; Sept. 20; v. 290; p. 490.
- Webster, Charles E. (See Susnich, Eugene W., assignor.)
- Webster, Edgar P., Bridgeport, Conn. Universal roller-bearing. No. 1,379,667; May 31; v. 286; p. 883.
- Webster, Edward T., Milwaukee, Wis. Drinking-fountain. No. 1,395,374; Nov. 1.
- Webster Electric Company. (See Kleckner, Arthur C., assignor.)
- Webster, Emmett S. (See Smith, C. L., and Webster, assignors.)
- Webster, Ernest C., Chicago, Ill. Electric stopper for fluid-containers. No. 1,400,646; Dec. 20.
- Webster, F. S., Company. (See White, Joseph A., assignor.)
- Webster, George P., Seattle, Wash. Valve-spring-compressing clamp. No. 1,374,694; Apr. 12; v. 285; p. 296.
- Webster, Harry G., Chicago, Ill. Automatic telephone-switch. No. 1,390,409; Sept. 13; v. 290; p. 262.
- Webster, Harry G., assignor to Kellogg Switchboard & Supply Company, Chicago, Ill. Switching mechanism. No. 1,367,338; Feb. 1; v. 283; p. 91.
- Webster, Henry, Newport, Ky. Kiln for burning any and all sorts of clay products, glazed ware, and pottery. No. 1,395,462; Nov. 1.
- Webster, Lewis E., assignor to The Wyoming Shovel Works, Wyoming, Pa. Reinforcing or stay bolt for tool-handles. No. 1,369,995; Mar. 1; v. 284; p. 46.
- Webster, Milton W., Toronto, Ontario, Canada. Nut-lock. No. 1,367,648; Feb. 8; v. 283; p. 209.
- Webster, Paul W., Pelham Manor, assignor to Perry & Webster Incorporated, New York, N. Y. Acid manufacture. No. 1,390,410; Sept. 13; v. 290; p. 262.
- Webster, Samuel T., St. Louis, Mo., assignor, by mesne assignments, to General Electric Company. Regenerative motor-control system. No. 1,391,289; Sept. 20; v. 290; p. 503.
- Webster, Thomas M. (See Lovell, Christopher H., assignor.)
- Webster, Towner K. (See Whitney, William A., assignor.)
- Webster, Willard M., and G. D. Wernli, Los Angeles, Calif. Folding box-table. No. 1,381,682; June 14; v. 287; p. 310.
- Webster, William L., New York, N. Y. Toothbrush. No. 1,378,157; May 17; v. 286; p. 449.
- Wecht, Charles L., Logansport, Ind. Toy wheelbarrow. No. 1,387,570; Aug. 16; v. 289; p. 442.
- Wedgworth, John K., Cuba, Ala. Metal rail-tie. No. 1,399,909; Dec. 13.
- Wedlock, Frank V. (See Bennett, C. H. Palmer, and Wedlock.)
- Wedman, Otto, Tacoma, Wash. String-cutter. No. 1,384,651; July 12; v. 288; p. 339.
- Wedmark, Paul H., Minneapolis, Minn. Process and apparatus for producing photographic negatives. No. 1,379,949; May 31; v. 286; p. 936.
- Wedoit Company, The. (See Fenn, William B., assignor.)
- Weed, Harry D., U. S. Army. Safety-release wire-holder for aerial bombs. No. 1,385,598; July 26; v. 288; p. 690.
- Weed, Harry D., U. S. Army. Bomb carrying and release system. No. 1,396,150; Nov. 8.
- Weed, Lowrey A., Brooklyn, N. Y., assignor to the Secretary of War, trustee. Automatically-releasable magazine for machine-rifles. No. 1,400,252; Dec. 13.
- Weekes, William F., Linwood, Pa., assignor to General Chemical Company, New York, N. Y. Feeding devices for roasting-furnaces. No. 1,378,068; May 17; v. 286; p. 432.
- Weeks, Benjamin T., Wheeler, Miss. Collapsible stock crate. No. 1,369,068; Feb. 22; v. 283; p. 571.
- Weeks, Carl, Des Moines, Iowa. Container. No. 1,386,917; Aug. 9; v. 289; p. 262.
- Weeks, Charles, Palo Alto, assignor to Charters Manufacturing Co., Santa Cruz, Calif. Temperature-controlling device. No. 1,371,957; Mar. 15; v. 284; p. 529.
- Weeks, Charles A., deceased, Philadelphia, Pa.; L. H. Weeks, executrix. Germicide. No. 1,366,106; Jan. 18; v. 282; p. 482.
- Weeks, Edward C., Jackson, Mich. Machine for coating or covering material. No. 1,393,860; Oct. 18.
- Weeks, Frank A., Mfg. Co. (See Watkins, Henry E., assignor.)
- Weeks, Louise H., executrix. (See Weeks, Charles A.)
- Weeks, Walter L., Patchogue, N. Y. Paper-holder. No. 1,398,308; Nov. 29.
- Weeks, William W., Brooklyn, N. Y., assignor of one-half to H. W. Shonnard, Upper Montclair, N. J. Carburetor. No. 1,386,036; Aug. 2; v. 289; p. 15.
- Weems, Chester N., Library, Pa. Reflector for head-lamps. No. 1,398,987; Dec. 6.
- Wefel, William C. H., Denver, Colo. Railway signaling system. No. 1,366,107; Jan. 18; v. 282; p. 482.
- Wege, Peter M., Grand Rapids, Mich., assignor to Invincible Metal Office Furniture Company, Manitowoc, Wis. Safety deposit-box and lock construction. No. 1,377,449; May 10; v. 286; p. 261.
- Wege, Peter M., Grand Rapids, Mich., assignor to Invincible Metal Office Furniture Company, Manitowoc, Wis. Safety-deposit appliance. No. 1,387,818; Aug. 16; v. 289; p. 493.
- Wegel, Raymond L., assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine signaling. No. 1,393,471; Oct. 11.
- Weger, Charles J., assignor to The Weger Motor Company, Cleveland, Ohio. Internal-combustion engine. (Re-issue.) No. 15,031; Jan. 18; v. 282; p. 528.
- Weger Motor Company, The. (See Weger, Charles J., assignor.)
- Wegmann, Theodore H., *et al.* (See Raloff, Adolph, Jr., assignor.)
- Wegner, Fred C., Archer, Nebr. Poultry-roost. No. 1,391,596; Sept. 20; v. 290; p. 565.
- Wegner, Julius, assignor to H. Spadone and W. W. Spadone, New York, N. Y. Cutting and stripping machine. No. 1,384,984; July 19; v. 288; p. 488.
- Wehinger, Frederick, assignor to Waterbury Clock Co., Waterbury, Conn. Ship's-bells clock. No. 1,390,848; Sept. 13; v. 290; p. 350.
- Wehinger, Frederick, assignor to Waterbury Clock Co., Waterbury, Conn. Chime and strike clock movement. No. 1,399,452; Dec. 6.
- Wehle, Louis A., Buffalo, N. Y. Apparatus for use in preparing liquid or semiliquid materials. No. 1,395,753; Nov. 1.
- Wehn, Charles E., assignor to Listo Pencil Company, Alameda, Calif. Pencil. No. 1,388,536; Aug. 23; v. 289; p. 691.
- Wehner, George A., Savannah, Ga. Steering-wheel lock. No. 1,387,218; Aug. 9; v. 289; p. 319.



## Alphabetical list of patentees—Continued.

- Wehner, Heinrich, Frankfort-on-the-Main, Germany. Device for separating gases from hot water. No. 1,399,592; Dec. 6.
- Wehner, Heinrich, Frankfort-on-the-Main, Germany. Water-cleaning plant. No. 1,400,129; Dec. 13.
- Wehrle, Frank X., assignor to The Seth Thomas Clock Co., Thomaston, Conn. Ship's-bells clock. No. 1,394,957; Oct. 25.
- Wehrle, John G., and J. Otho Ruble, Wellman, Iowa. Lock for tractor steering-gears. No. 1,373,039; Mar. 29; v. 284; p. 838.
- Weible, Thurlow E., Chicago, Ill. Airplane-stabilizer. No. 1,388,907; Aug. 30; v. 289; p. 818.
- Weibull, Ernst H. W., Gottenborg, assignor to Nordiska Kullager Aktiebolaget, Regulugatan, Lundby, Gottenborg, Sweden. Self-adjusting roller-bearing. No. 1,371,282; Mar. 15; v. 284; p. 398.
- Weibull, Ernst H. W., assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Apparatus for calibrating rollers for antifriction roller-bearings. No. 1,374,127; Apr. 5; v. 285; p. 145.
- Weibull, Ernst H. W., assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Roller-bearing. No. 1,375,877; Apr. 26; v. 285; p. 616.
- Weibull, Ernst H. W., assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Roller-cage for roller-bearings with convex rollers. No. 1,382,333; June 21; v. 287; p. 492.
- Weichhart, Henry A., assignor to The California Tool Works, San Francisco, Calif. Stud-driving wrench. No. 1,384,417; July 12; v. 288; p. 289.
- Weichel, Edward P., Bethlehem, Pa. Clothesline-fastener. No. 1,369,149; Feb. 22; v. 283; p. 587.
- Weichsel, Hans, assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Winding for multiple-speed motors. No. 1,366,984; Feb. 1; v. 283; p. 20.
- Weid, Axel J., Venice, Calif. Inking-reel. No. 1,377,532; May 10; v. 286; p. 276.
- Weida, Harry, Highland Park, N. J., assignor to India Rubber Company. Molded rubber article. No. 1,373,472; Apr. 5; v. 285; p. 18.
- Weidenthal, Harold G., deceased, Cleveland, Ohio; L. S. Weidenthal, executrix. Mold for metal-founders' use and composition of matter for making same. No. 1,401,215; Dec. 27.
- Weidenthal, Louise S., executrix. (See Weidenthal, Harold G.)
- Weider, Frederick J. (See Towe, Edward, assignor.)
- Weidlein, L. B., *et al.* (See Geesman, Wilbur H., assignor.)
- Weidlein, Luther B. (See Kling, F. E., and Weidlein.)
- Weidman, A. P., *et al.* (See Hall, G. U., and Truitt, assignors.)
- Weidman, Louis C. H. (See Murphy, F. K., Martin, and Weidman.)
- Weidner, Charles, Frankfort, Ind. Commercial card and poster holder. No. 1,401,216; Dec. 27.
- Weidner, John F., Edwardsville, Ill. Pedal-lock. No. 1,371,958; Mar. 15; v. 284; p. 530.
- Weir, Jacob J., assignor of one-third to F. J. Heitmann and one-third to W. A. Klatt, Chicago, Ill. Detachable motor-truck crawler. No. 1,383,356; July 5; v. 288; p. 20.
- Weiershauser, Henry J., Stockton, Calif. Filling engine gas-tanks. No. 1,393,861; Oct. 18.
- Weiershauser, Henry J., Stockton, Calif. Separator for suction fuel-tank-filling systems. No. 1,393,862; Oct. 18.
- Weig, Ernest J. F., New York, N. Y. Garment-fastener. No. 1,384,685; July 12; v. 288; p. 346.
- Weigand, Herman. (See Smith, C. M., and Weigand.)
- Weigel, John A. (See Kalberer, G. J., and Weigel.)
- Weigen, Henry, Buffalo, N. Y., assignor, by mesne assignments, to Buffalo Equipment & Construction Company, Inc. Screening attachment for power-shovels. No. 1,376,595; May 3; v. 286; p. 41.
- Weighing Machine Manufacturing Company. (See Zanone, Richard J., assignor.)
- Weightman, William A., and C. H. Nitsch, assignors to Stokes and Smith Company, Philadelphia, Pa. Corner cutting and bending machine. No. 1,386,292; Aug. 2; v. 289; p. 65.
- Weightman, William A., and C. H. Nitsch, Philadelphia, assignors to Stokes and Smith Company, Summerdale, Pa. Sheet-feeding mechanism. No. 1,388,678; Aug. 23; v. 289; p. 718.
- Weiber, George F., Dayton, Ohio. Aeroplane-propeller. No. 1,389,609; Sept. 6; v. 290; p. 10.
- Weil, Charles L., deceased, Port Huron, Mich.; E. S. Weil, administratrix. Steam system for manufacturing salt and the like. No. 1,391,811; Sept. 27; v. 290; p. 681.
- Weil, Charles R., Battersea, England. Connection of metallic and other flexible tubing. No. 1,367,932; Feb. 8; v. 283; p. 263.
- Weil, Ella S., administratrix. (See Weil, Charles L.)
- Weil, Emil, Brooklyn, N. Y. Protected shoe and making the same. No. 1,373,157; Mar. 29; v. 284; p. 861.
- Weil, Lionel, Goldsboro, N. C. Transplanting-receptacle. No. 1,380,327; May 31; v. 286; p. 1007.
- Weil, Louis S., Glenrose, Ohio. Wire-spoke wheel. No. 1,375,267; Apr. 19; v. 285; p. 468.
- Weiland, Alfred, Philadelphia, Pa. Carbureter for internal-combustion engines. No. 1,383,044; June 28; v. 287; p. 682.
- Weimar, Albert C., Grove City, Pa. Extracting soluble albumen from whey. No. 1,381,605; June 14; v. 287; p. 294.
- Weimar, Conrad S., Elizabeth, N. J. Accessory for motor-trucks. No. 1,401,843; Dec. 27.
- Weimar, William, Appieton, Wis. Treating fibrous materials. No. 1,375,125; Apr. 19; v. 285; p. 441.
- Weinbeer, Gregor, Nuremberg, Germany. Nail-extractor. No. 1,381,683; June 14; v. 287; p. 310.
- Weinberg, Alexander, Pittsburgh, and C. V. Linderman, North Braddock, Pa. Baseball-game apparatus. No. 1,396,798; Nov. 15.
- Weinberg, Isaac H., and C. F. Bisbing, New York, N. Y. Umbrella-cover. No. 1,381,043; June 7; v. 287; p. 138.
- Weinberg, Isidor, *et al.* (See Wagner, Michael, assignor.)
- Weinberg, Marcel, Brooklyn, N. Y. Composition of matter. No. 1,400,395; Dec. 13.
- Weinberger, Benjamin, assignor to Marx & Haas Clothing Co., St. Louis, Mo. Shaff-hanger. No. 1,387,571; Aug. 16; v. 289; p. 443.
- Weinberger, Benjamin, assignor to Marx & Haas Clothing Co., St. Louis, Mo. Swatch. No. 1,387,572; Aug. 16; v. 289; p. 443.
- Weinberger, Julius. (See Goldsmith, A. N., and Weinberger.)
- Weine, Albert E., Alpena, Mich. Scale. No. 1,400,469; Dec. 13.
- Weiner, Edwin M. R., and P. G. Bogdanoff, Battle Creek, Mich. Centrifugal pump. No. 1,369,508; Feb. 22; v. 283; p. 656.
- Weiner, Morris, Philadelphia, Pa. Coin-actuated dispensing apparatus. No. 1,378,069; May 17; v. 286; p. 433.
- Weiner, Samuel E., Atlantic City, N. J. Syringe. No. 1,381,774; June 14; v. 287; p. 327.
- Weinert, George S., Reading, Pa. Printing attachment for knitting-machines. No. 1,390,660; Sept. 13; v. 290; p. 314.
- Weinheim, Emil. (See Lippmann, Julius D., assignor.)
- Weinman, Milton, Chicago, Ill. Desk-pad. No. 1,398,349; Nov. 29.
- Weimann, John L., St. Louis, Mo. Seal. No. 1,393,863; Oct. 18.
- Weinrich, Gladys H., Chicago, Ill. Ornamental tray and the like. No. 1,396,484; Nov. 8.
- Weinrich, Gladys H., Chicago, Ill. Guard for telephone-transmitters and the like. No. 1,400,334; Dec. 13.
- Weinstein, Bernard, San Diego, Calif. Vehicle direction-indicator. No. 1,364,334; Jan. 4; v. 282; p. 56.
- Weintraub, Isaac, New Haven, Conn. Artificial denture. No. 1,369,509; Feb. 22; v. 283; p. 656.
- Weir, Charles W., East McKeesport, Pa. Automobile-tank valve device. No. 1,364,497; Jan. 4; v. 282; p. 88.
- Weir Frog Company, The. (See Goldsmith, Nathaniel O., assignor.)
- Weir, G. & J., Limited. (See Lang, Charles R., assignor.)
- Weir, George, Iron River, Wis. Automatic oiler. No. 1,365,877; Jan. 18; v. 282; p. 438.
- Weir, George F., Elkhart, Ind. Engine-crosshead. No. 1,381,375; June 14; v. 287; p. 252.
- Weir, John B., Vancouver, British Columbia, Canada. Dogging mechanism for sawmills. No. 1,394,128; Oct. 18.
- Weir, Joseph A., Memphis, Tenn. Refrigerator. No. 1,393,929; Oct. 18.
- Weis, Andrew L., assignor to The Weis Fibre Container Corporation, Monroe, Mich. Open-end container. No. 1,394,590; Oct. 25.
- Weis, Andrew L., assignor to The Weis Fibre Container Corporation, Monroe, Mich. Slide-cover box. No. 1,394,591; Oct. 25.
- Weis, Andrew L., and W. H. Ray, assignor to The Weis Fibre Container Corporation, Monroe, Mich. Metal-bound fiber container. No. 1,394,592; Oct. 25.
- Weis Fibre Container Corporation, The. (See Ray, W. H., and Pierce, assignors.)
- Weis Fibre Container Corporation, The. (See Ray, William H., assignor.)
- Weis Fibre Container Corporation, The. (See Weis, A. L., and Ray, assignors.)
- Weis Fibre Container Corporation, The. (See Weis, Andrew L., assignor.)
- Weis, John A., Chicago, Ill. Expandible and contractible structure. No. 1,392,669; Oct. 4.
- Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Thread-controlled electric stop-motion. No. 1,367,219; Feb. 1; v. 283; p. 67.
- Weis, John P., Nyack, N. Y., assignor of one-half to Metropolitan Sewing Machine Corporation, Dover, Del. Cutting drawer-legs. No. 1,372,921; Mar. 29; v. 284; p. 815.
- Weis, Paul B. (See Burkel, M. J., and Weis.)
- Weisberg, Aaron, assignor of one-sixth to N. Berkovitz and one-sixth to J. Heller, Pueblo, Colo. Automobile-signal. No. 1,371,283; Mar. 15; v. 284; p. 398.
- Weisenborn, George P. A., trustee in trust of The United Manufacturing and Power Company. (See Weisenborn, George P. A., assignor.)



*Alphabetical list of patentees—Continued.*

- Weisenborn, George P. A., Salt Lake City, Utah, assignor by mesne assignments, to said George P. A. Weisenborn, trustee in trust of the United Manufacturing and Power Company, Seattle, Wash. Current or tide motor. No. 1,396,609; Nov. 8.
- Weiser, A. Grant. (See Halpen, Edward E., assignor.)
- Weisgarber, Kate A., Vibank, Saskatchewan, Canada. Cooking device. No. 1,398,757; Nov. 29.
- Weisgarber, Edwin C., Washington, D. C. Colored-smoke-producing composition. No. 1,377,533; May 10; v. 286; p. 276.
- Weisgarber, Edwin C., U. S. Army. Valve-packing grease. No. 1,384,714; July 12; v. 288; p. 352.
- Weishampel, Robert C., Brooklyn, N. Y. Heating apparatus. No. 1,373,110; Mar. 29; v. 284; p. 851.
- Weishaupt, Gustav A., Williamsport, Pa. Knife. No. 1,372,579; Mar. 22; v. 284; p. 706.
- Weisman, S., *et al.* (See Campbell, W. L., and Straughan, assignors.)
- Weiss, Albert T., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Latch for furniture drawers. No. 1,391,812; Sept. 27; v. 290; p. 681.
- Weiss, Albert T., Rochester, assignor to Phillips & Clark Stove Company, Inc., Geneva, N. Y. Stove-leg connection. No. 1,392,033; Sept. 27; v. 290; p. 728.
- Weiss, Alfred H., Wilmette, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Switchboard-plug. No. 1,401,217; Dec. 27.
- Weiss, Arnold A. (See Nelson, Elmer F., assignor.)
- Weiss, Fred, Woodstock, Ill. Rim-tool. No. 1,387,526; Aug. 16; v. 289; p. 434.
- Weiss, George, Chicago, Ill. Clamp for shoe-stands. No. 1,368,468; Feb. 15; v. 283; p. 415.
- Weiss, George C., Oakland, Calif. Machine element. No. 1,386,037; Aug. 2; v. 289; p. 15.
- Weiss, Harry B., Binghamton, Tenn. Car-moving device. No. 1,371,457; Mar. 15; v. 284; p. 434.
- Weiss, Henry, New York, N. Y. Electromedical brush. No. 1,374,414; Apr. 12; v. 285; p. 241.
- Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Recovery of organic products from larch. No. 1,364,418; Jan. 4; v. 282; p. 72.
- Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Felt. No. 1,365,878; Jan. 18; v. 282; p. 438.
- Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Method and apparatus for transforming wood. No. 1,366,225; Jan. 18; v. 282; p. 505.
- Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Composite fibrous product. No. 1,387,219; Aug. 9; v. 289; p. 320.
- Weiss, John M., New York, N. Y., and C. R. Downs, Cliffside, N. J., assignors to The Barrett Company. Catalytic oxidation of fluorene. No. 1,374,695; Apr. 12; v. 285; p. 296.
- Weiss, John M., New York, N. Y., and C. R. Downs, Cliffside, N. J., assignors to The Barrett Company. Production of maleic acid. No. 1,377,534; May 10; v. 286; p. 276.
- Weiss, John M., New York, N. Y., and C. R. Downs, Cliffside, N. J., assignors to The Barrett Company. Catalytic oxidation of ortho-cresol. No. 1,380,277; May 31; v. 286; p. 998.
- Weiss, Joseph W., assignor to French Battery & Carbon Co., Madison, Wis. Mixing battery material. No. 1,377,645; May 10; v. 286; p. 298.
- Weissenborn, Albert B., assignor of one-half to Appleton Wire Works, Appleton, Wis. Let-off mechanism. No. 1,391,435; Sept. 20; v. 290; p. 533.
- Weissenborn, Oscar A., *et al.* (See Kolling, Charles H., assignor.)
- Weister, Edward P., Ranger, Tex. Polished-rod clamp. No. 1,396,610; Nov. 8.
- Weite, Joseph, Jr. (See Schulte, E., and Weite.)
- Weith, Archie J. (See Redman, L. V., Weith, and Brock.)
- Weithaase, Julius A., Philadelphia, Pa. Loom attachment. No. 1,388,537; Aug. 23; v. 289; p. 691.
- Weithaase, Paul E., *et al.* (See White, Tilman, assignor.)
- Weithaus, John J., North Vernon, assignor of one-half to M. C. Ainsberry, Rushville, Ind. Oil-vaporizer. No. 1,384,004; July 5; v. 288; p. 155.
- Weitz, Carl S., Cincinnati, Ohio. Bottle-filling valve. No. 1,393,864; Oct. 18.
- Weitzenkorn, Joseph W. (See Sargent, G. W., and Weitzenkorn.)
- Weitzenkorn, Joseph W., Washington, Pa. Producing molybdenum trioxid. No. 1,401,932; Dec. 27.
- Weizmann, Charles, Kensington, and D. A. Legg, Clapham Common, London, England. Manufacture of hydrocarbons. No. 1,395,620; Nov. 1.
- Welbon, John, Utica, N. Y. Card-index. No. 1,388,080; Aug. 16; v. 289; p. 543.
- Welby, James, Los Angeles, Calif. Hand-truck. No. 1,364,535; Jan. 4; v. 282; p. 95.
- Welch, Alfred F., Fort Wayne, Ind., assignor to General Electric Company. Short-circuiting device. No. 1,381,044; June 7; v. 287; p. 139.
- Welch, Clarence R., Denver, Colo. Pneumatic rock-drill. No. 1,391,708; Sept. 27; v. 290; p. 661.
- Welch, Edward P., Wilsonville, Conn. Gas-gun. No. 1,384,866; July 12; v. 288; p. 279.
- Welch, George S., Chicago, Ill. Collapsible bed. No. 1,379,064; May 24; v. 286; p. 694.
- Welch, Harry V., assignor to International Precipitation Company, Los Angeles, Calif. Process and apparatus for recovering soluble constituents from furnace-fumes. No. 1,382,037; June 21; v. 287; p. 437.
- Welch, Harry V., assignor to International Precipitation Company, Los Angeles, Calif. Means for supporting and insulating high-tension electrodes in electrical precipitation apparatus. No. 1,391,436; Sept. 20; v. 290; p. 533.
- Welch, Horace H., Chicago, Ill. Electric recorder. No. 1,381,684; June 14; v. 287; p. 310.
- Welch, James G., St. Louis, Mo., assignor of one-fourth to J. Sinclair, one-fourth to H. J. Cross, and one-fourth to W. Aitchison, Detroit, Mich. Mail-bag catching and delivering apparatus. No. 1,400,114; Dec. 13.
- Welch, Jerome W., Sergeant Bluff, Iowa. Concrete structure having waterproofing reinforcement. No. 1,393,592; Oct. 11.
- Welch, John A., Kansas City, Mo. Engine-piston. No. 1,377,106; May 3; v. 286; p. 139.
- Welch, Lorenzo B., Fort Smith, Ark. Convertible seat for automobiles. No. 1,369,150; Feb. 22; v. 283; p. 587.
- Welch, Lorenzo B., Fort Smith, Ark. Convertible seat for automobiles. No. 1,387,083; Aug. 9; v. 289; p. 295.
- Welch, W. M., Manufacturing Company. (See Brown, Hugh E., assignor.)
- Welch, Walter F., Jamaica, N. Y. Lawn-mower. No. 1,366,440; Jan. 25; v. 282; p. 591.
- Welch, Walter H., Bishopton, Bristol, assignor to Harvey Frost & Company, Limited, London, England. Electrical cut-out. No. 1,400,470; Dec. 13.
- Welch, Walter J., and A. H. Tracy, assignors to H. M. Byllesby & Company, Chicago, Ill. Coupling. No. 1,380,127; May 31; v. 286; p. 969.
- Welch, Walter J., and A. H. Tracy, assignors to H. M. Byllesby & Company, Chicago, Ill. Electrical insulator. No. 1,393,330; Oct. 11.
- Welch, William G. (See Holland, J., and Welch.)
- Welcome, Otto, Chicago, Ill. Toy. No. 1,371,959; Mar. 15; v. 284; p. 530.
- Weldman-Seaver-Morgan Company, The. (See McClimon, J. S., and Wetherill, Jr., assignors.)
- Weldon, Charles F., Delavan, Wis. Mechanical inking apparatus. No. 1,401,218; Dec. 27.
- Welfens, Emile J., Manchester, England. Oldham coupling. No. 1,370,864; Mar. 8; v. 284; p. 256.
- Welfens, Emile J., West Withington, Manchester, England. Transmission mechanism. No. 1,391,290; Sept. 20; v. 290; p. 503.
- Welge, Didrik, Mason, Nev. Water-cooling system for internal-combustion motors. No. 1,378,070; May 17; v. 286; p. 433.
- Welhart, Charles, Lowell, Mass., assignor, by mesne assignments, to Gillespie-Eden Corporation. Drive and reversing mechanism for washing-machines. No. 1,399,910; Dec. 13.
- Welivar, George F., Williamsport, Pa. Woodworking-machine. No. 1,388,988; Aug. 30; v. 289; p. 835.
- Weliki, George, assignor of one-half to M. Kaminska, Hamilton, Ontario, Canada. Aeroplane. No. 1,395,068; Oct. 25.
- Welikoff, Atanas. (See Spatner N., and Welikoff.)
- Welke, William, Cleghorn, Wis. Planter attachment. No. 1,388,498; Aug. 23; v. 289; p. 684.
- Well, William. (See Stidham, Charles L., assignor.)
- Wellen, Henry, New York, N. Y. Fire-escape device. No. 1,372,853; Mar. 29; v. 284; p. 800.
- Weller, Arthur W., and W. T. Robinson-Bindley, London, England. Phenol-formaldehyde condensation product and the production thereof. No. 1,368,867; Feb. 15; v. 283; p. 493.
- Weller, George L., Elyria, Ohio. Drinking device. No. 1,376,059; Apr. 26; v. 285; p. 652.
- Weller, George L., Elyria, Ohio. Measuring device. No. 1,389,723; Sept. 6; v. 290; p. 33.
- Wellensiek, Adolph H., Stockton, Calif. Excavating-machine. No. 1,387,875; Aug. 16; v. 289; p. 504.
- Welling, Matthew J., assignor of one-third to J. C. Drabeck, Chicago, Ill. Can-closure. No. 1,385,290; July 19; v. 288; p. 551.
- Wellington, Arthur W., assignor to The Chase Companies, Inc., Waterbury, Conn. Flashlight or battery hand-lamp. No. 1,377,646; May 10; v. 286; p. 298.
- Wellington, Arthur W., and A. F. Ryan, San Jose, Calif. Centrifugal pump. No. 1,386,293; Aug. 2; v. 289; p. 65.
- Wellington, Edward, Port Coquitlam, British Columbia, Canada. Hair-brush. No. 1,381,147; June 14; v. 287; p. 210.
- Wellington, John M., and D. G. Mackenzie, Ilford, England. Internal-combustion engine of the two-stroke type. No. 1,364,664; Jan. 4; v. 282; p. 119.
- Wellington, Leonard A., Keene, N. H. Phonographic-record-cleaning device. No. 1,396,544; Nov. 8.
- Welliver, Percy, Hereford, Tex. Automobile-theft-preventing device. No. 1,380,617; June 7; v. 287; p. 55.
- Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Refining liquid hydrocarbons. No. 1,390,002; Sept. 6; v. 290; p. 89.
- Wellman, Samuel K. (See Pennington, G. R., and Wellman.)
- Wellman-Seaver-Morgan Company, The. (See McClimon, Jay S., assignor.)



*Alphabetical list of patentees—Continued.*

- Wellman-Seaver-Morgan Company, The. (See Rogers, John F., assignor.)
- Wellman-Seaver-Morgan Company, The. (See Sabin, Ford L., assignor.)
- Wellman-Seaver-Morgan Company, The. (See Thomas, Ivor D., assignor.)
- Wellman-Seaver-Morgan Company, The. (See Van Syckle, Cecil E., assignor.)
- Wells, Alfred A. (See Ellis, C., and Wells.)
- Wells, Alfred A., Montclair, N. J. Oil-hardening. No. 1,383,887; July 5; v. 288; p. 130.
- Wells, Cornelius L., Cumberstone, Md. Lubricating device. No. 1,397,065; Nov. 15.
- Wells, Daniel D., Burkburnett, Tex. Boring and threading tool. No. 1,382,447; June 21; v. 287; p. 514.
- Wells, Elmer E., Stockton, Calif. Oil-filter for gas-engines. No. 1,395,069; Oct. 25.
- Wells, Elmer J., Nashua, Iowa. Stay-iron. No. 1,385,765; July 26; v. 288; p. 724.
- Wells, Frank O. (See La Pointe, Victor E., assignor.)
- Wells, Fred and M., Towanda, Pa. Split rim. No. 1,398,659; Nov. 29.
- Wells, Fred B., assignor to C. Durant, Hillyard, Wash. Remedy for hemorrhoids. No. 1,385,195; July 19; v. 288; p. 532.
- Wells, George W., assignor to Walker Wells Company, Amesbury, Mass. Cowl-ventilator for motor-vehicles. No. 1,374,696; Apr. 12; v. 285; p. 296.
- Wells, Glen R., Fort Wayne, Ind. Clip for pens and pencils. No. 1,387,220; Aug. 9; v. 289; p. 320.
- Wells, Harold R., Des Moines, Iowa. Internal-combustion engine. No. 1,364,166; Jan. 4; v. 282; p. 23.
- Wells, Harry L., Chicago, Ill. Blank for periodical subscriptions. No. 1,393,865; Oct. 18.
- Wells, Harvey H., Chicago, Ill. Box. No. 1,387,084; Aug. 9; v. 289; p. 295.
- Wells, Herbert J. C., New York, N. Y. Thermostatic device. No. 1,392,031; Sept. 27; v. 290; p. 727.
- Wells, Horace N., Hoboken, N. J. Paint. No. 1,374,128; Apr. 5; v. 285; p. 145.
- Wells, James B., Jacksonville, Tex. Potato-curing apparatus. No. 1,370,174; Mar. 1; v. 284; p. 79.
- Wells, John, Cairo, Egypt. Gas-producer for mechanical traction. No. 1,367,445; Feb. 1; v. 283; p. 112.
- Wells, John, Cairo, Egypt. Tar extractor and scrubber for gas. No. 1,373,280; Mar. 29; v. 284; p. 886.
- Wells, John, Cairo, Egypt. Grate for gas-producers and carbonizing plants. No. 1,380,278; May 31; v. 286; p. 998.
- Wells, John, Cairo, Egypt. Gas-producer. No. 1,385,291; July 19; v. 288; p. 551.
- Wells, John, Cairo, Egypt. Gas-cleaning apparatus. No. 1,390,183; Sept. 6; v. 290; p. 126.
- Wells, John F., Cairo, Egypt. Process and apparatus for carbonizing wood and other carbonaceous material. No. 1,383,888; July 5; v. 288; p. 130.
- Wells, John V., New York, N. Y., assignor of one-fourth to J. Yuengling, Morristown, N. J. Puzzle. No. 1,377,039; May 3; v. 286; p. 126.
- Wells, Joseph C., Sr., assignor of one-half to W. D. Hatfield, Essersville, Va. Coupling. No. 1,391,597; Sept. 20; v. 290; p. 565.
- Wells, Lillie B., Amarillo, Tex. Clothes-rack. No. 1,372,580; Mar. 22; v. 284; p. 706.
- Wells, Martin. (See Wells, Fred and M.)
- Wells, Otis K. (See Graves, E. G., and Wells.)
- Wells, Russell D., Royersford, Pa. Flowerpot or other vessel. No. 1,391,353; Sept. 20; v. 290; p. 516.
- Wells, Sr., Richard O., Chicago, Ill. Fishing-float. No. 1,371,188; Mar. 8; v. 284; p. 317.
- Wells, Sidney D., Madison, Wis., assignor to the United States of America. Hydrometer. No. 1,369,510; Feb. 22; v. 283; p. 656.
- Wells, Winfield A., Spencer, N. Y. Animal-trap. No. 1,382,153; June 21; v. 287; p. 457.
- Welsbach Company. (See Antrim, William D., assignor.)
- Welsford, Leslie W., assignor to J. C. Gates, Melbourne, Victoria, Australia. Machine for making paper bags. No. 1,400,587; Dec. 20.
- Welsh, Richard E. (See Ryan, E. H., and Welsh.)
- Welsh, Richard E., New Bedford, Mass. Lug-strap support. No. 1,382,581; June 21; v. 287; p. 540.
- Welsh, Clyde L., Pittsburgh, Pa. Mechanical toy. No. 1,392,727; Oct. 4.
- Welsh, Clyde L., Pittsburgh, Pa. Attachment for printing-presses. No. 1,400,704; Dec. 20.
- Welsh, Mary M., McGill, Nev. Curtain-rod. No. 1,399,678; Dec. 6.
- Welsh, William J., Jersey City, N. J. Mold filling and shaking machine. No. 1,366,226; Jan. 18; v. 282; p. 506.
- Welton, Park E., Cuyahoga Falls, Ohio. Collapsible annular core. No. 1,369,720; Feb. 22; v. 283; p. 693.
- Welton, William H. H., Denver, Colo. Metal tie and rail-fastener. No. 1,388,226; Aug. 23; v. 289; p. 629.
- Welty, Helen E., Seattle, Wash. Hygienic thermos food-container. No. 1,371,336; Mar. 15; v. 284; p. 409.
- Wendeler, Ernst, assignor to Firm Deutsche Kraftspflug-Gesellschaft M. B. H., Berlin, Germany. Motor-plow. No. 1,385,960; July 26; v. 288; p. 762.
- Wendelken, Charles, Robstown, Tex. Check-writer. No. 1,382,874; June 28; v. 287; p. 649.
- Wendelken, Richard, assignor to J. Winter, New York, N. Y. Carbureter. No. 1,383,889; July 5; v. 288; p. 131.
- Wendell, Carl A., Rockville Center, N. Y. Crusher. No. 1,366,985; Feb. 1; v. 283; p. 20.
- Wendell, John A., Montgomery, W. Va. Trolley-wheel. No. 1,391,085; Sept. 20; v. 290; p. 461.
- Wenderhold, William, New York, N. Y., assignor to Cru Patents Corporation. Film-expanding pressure-guide. No. 1,373,925; Apr. 5; v. 285; p. 107.
- Wenderhold, William, assignor to Cru Patents Corporation, New York, N. Y. Universal projector-support. No. 1,383,683; July 5; v. 288; p. 88.
- Wenderhold, William, and C. Uebelmesser, New York, N. Y., assignor to Cru Patents Corporation. Belt connection. No. 1,397,750; Nov. 22.
- Wendt, Gustave A., Spokane, Wash. Automobile-headlight. No. 1,391,229; Sept. 20; v. 290; p. 490.
- Wentland, William, New York, N. Y. Artificial eye. No. 1,373,579; Apr. 5; v. 285; p. 39.
- Wenlock, Walter B., Brightlingsea, and W. A. Martin, London, England. Anchor. No. 1,372,259; Mar. 22; v. 284; p. 644.
- Wennerström, Torsten, Bofors, Sweden. Loading detonating-caps. No. 1,390,849; Sept. 13; v. 290; p. 351.
- Wenrich, Calvin N. (See Bacon, R. F., and Wenrich.)
- Wensauer, Max, assignor of one-half to A. L. Maas, Sheboygan, Wis. Washboiler-protector. No. 1,386,147; Aug. 2; v. 289; p. 37.
- Wenschow, Karl, Berlin-Lichterfelde, assignor to A. Deichmann, Cologne, Germany. Forming relief-maps, pictures, and the like. No. 1,393,255; Oct. 11.
- Wensiulis, Joseph T., New York, assignor to Columbia Machine Works & Malleable Iron Co., Brooklyn, N. Y. Oil-burner. No. 1,398,709; Nov. 29.
- Wensiulis, Joseph T., New York, assignor to Columbia Machine Works & Malleable Iron Co., Brooklyn, N. Y. Furnace. No. 1,400,335; Dec. 13.
- Wenthe, William C. (See Neiswender, C. A., and Wenthe.)
- Wentworth, Jesse S., Norwood, Ohio, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening mechanism. No. 1,377,295; May 10; v. 286; p. 231.
- Wentworth, Pearl J., Fort Thomas, Ky. Laying and securing soles to uppers. No. 1,379,375; May 24; v. 286; p. 754.
- Wentz, George F., Lakewood, Ohio. Hot-air furnace. No. 1,386,294; Aug. 2; v. 289; p. 66.
- Wentz, Jere L., Passaic, assignor to Portable Machinery Company, Inc., Clifton, N. J. Device for positioning apparatus and the like. No. 1,376,125; Apr. 26; v. 285; p. 665.
- Wentzell, Lewis P., Greensburg, Pa. Channel-iron and anchor. No. 1,395,070; Oct. 25.
- Wentzell, Lewis P., Greensburg, Pa. Clip. No. 1,395,071; Oct. 25.
- Wenyon, John T., Harrisburg, Pa. Converting scrap metal into merchant-bars. No. 1,399,679; Dec. 6.
- Wenzel, Max, Kansas City, Mo. Clothes-tongs. No. 1,386,295; Aug. 2; v. 289; p. 66.
- Wenzel, Max, Muldenstein, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Suction-box for paper-machines and the like. No. 1,366,986; Feb. 1; v. 283; p. 21.
- Wenzelmann, Gustave, Galesburg, Ill. Tractor-fender. No. 1,375,193; Apr. 19; v. 285; p. 454.
- Wenzelmann, Gustave, Galesburg, Ill. Automatic chemical fire-extinguishing apparatus. No. 1,390,945; Sept. 13; v. 290; p. 371.
- Wenzlick, John H., Wheeling, W. Va. Supporting-chair for drill-boxings. No. 1,377,296; May 10; v. 286; p. 231.
- Wenzowitz, Michael, Chicago, Ill. Window-fixture. No. 1,379,497; May 24; v. 286; p. 776.
- Wereley, Hilliard W., Bayonne, N. J. Leak-proof joint. No. 1,389,542; Aug. 30; v. 289; p. 945.
- Weresiuk, Onufre, New Castle, Pa. Curtain and shade bracket. No. 1,381,606; June 14; v. 287; p. 295.
- Werlin, Charles H., Columbus, Ohio. Gas-burning stove. No. 1,378,071; May 17; v. 286; p. 433.
- Werlin, Charles H., Columbus, Ohio. Gas and air mixing device. No. 1,397,473; Nov. 15.
- Wermes, Frank, Waterloo, Iowa. Adjustable tool-holder. No. 1,373,926; Apr. 5; v. 285; p. 107.
- Werndli, Heinrich, Zurich, Switzerland. Exercising apparatus. No. 1,374,697; Apr. 12; v. 285; p. 296.
- Werneke, Oscar E., St. Paul, Minn. Radiator. No. 1,395,883; Nov. 1.
- Werner, Alfred G., Omaha, Nebr. Electric heater. No. 1,375,194; Apr. 19; v. 285; p. 455.
- Werner, Arthur M., San Jacinto, Calif. Electric water-heater. No. 1,387,819; Aug. 16; v. 289; p. 493.
- Werner, Charles S., Butte, Mont. Radiator for automobiles. No. 1,372,581; Mar. 22; v. 284; p. 706.
- Werner, Edward A., St. Clair, Mich. Combined ignition control and oil-gate for engines. No. 1,364,908; Jan. 11; v. 282; p. 210.
- Werner, Lester A., assignor to F. W. Pinkus, New York, N. Y. Monogram-printing device. No. 1,385,766; July 26; v. 288; p. 724.
- Werner, Lionel L., Syracuse, N. Y. Adjustable caster. No. 1,367,761; Feb. 8; v. 283; p. 231.
- Werner, Oscar, Los Angeles, Calif. Valve-operating system for combustion-engines. No. 1,377,297; May 10; v. 286; p. 231.



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- Werner, Otto P., and T. W. Arnt, Milwaukee, Wis. Reater. No. 1,375,338; Apr. 19; v. 285; p. 482.
- Werner, Paul, St. Louis, Mo. Fastener. No. 1,367,339; Feb. 1; v. 283; p. 91.
- Werner, Paul R., Philadelphia, Pa. Current-controller for induction-coils. No. 1,364,167; Jan. 4; v. 282; p. 23.
- Werner, Samuel, Rutherford, N. J. Headwear. No. 1,399,726; Dec. 6.
- Werner, Samuel, Rutherford, N. J. Headwear. No. 1,401,745; Dec. 27.
- Wernery, Lester A., Brooklyn, N. Y., assignor to B. C. Stickney, Elizabeth, N. J. Indexed card system. No. 1,383,684; July 5; v. 288; p. 89.
- Wernery, Lester A., Brooklyn, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,389,232; Aug. 30; v. 289; p. 883.
- Wernicke, Otto H. L., Gull Point, Fla. Sewing-machine. No. 1,368,777; Feb. 15; v. 283; p. 476.
- Wernimont, Henry G., Washington, D. C. Wrench. No. 1,370,175; Mar. 1; v. 284; p. 79.
- Wernli, George D. (See Webster, W. M., and Wernli.)
- Wertheimer, Gotthold E., New York, N. Y. Preparing stencil-plates, die-plates, and the like. No. 1,376,365; Apr. 26; v. 285; p. 710.
- Wertheimer, Gotthold E., New York, N. Y. Solution or bath for use in electrically preparing stencil-plates, die-plates, and the like. No. 1,376,366; Apr. 26; v. 285; p. 710.
- Wertheimer, Gotthold E., Astoria, N. Y. Solution or bath for electrically preparing stencil-plates, die-plates, and the like. No. 1,376,367; Apr. 26; v. 285; p. 710.
- Wertheimer, Gotthold E., Astoria, N. Y. Solution or bath for use in electrically preparing stencil-plates, die-plates, and the like. No. 1,376,368; Apr. 26; v. 285; p. 710.
- Wertheimer, Gotthold E., Astoria, N. Y. Solution or bath for use in electrically preparing stencil-plates, die-plates, and the like. No. 1,376,369; Apr. 26; v. 285; p. 711.
- Wertheimer, Roy. (See Samuel, W. R., and Wertheimer.)
- Werman, George W., Los Angeles, Calif. Device for holding newspapers and the like. No. 1,368,868; Feb. 15; v. 283; p. 493.
- Werts, David E., Olympia, Wash. Locking device. No. 1,374,048; Apr. 5; v. 285; p. 130.
- Werts, William D., assignor to one-tenth to G. Feldcamp, and one-tenth to J. Scherer, Los Angeles, Calif. Rear-axle construction. No. 1,372,381; Mar. 22; v. 284; p. 668.
- Wertz, Car, Chicago, Ill. Artist's color-box. No. 1,391,028; Sept. 20; v. 290; p. 450.
- Wertheim, Max, Pietermaritzburg, Natal, South Africa. Sugar-cane cutter. No. 1,392,377; Oct. 4.
- Wertz, Charles B. (See Grant, C. H., and Wertz.)
- Wertz, Peter, *et al.* (See Kearns, William S., assignor.)
- Wertz, Peter, Pittsburgh, Pa. Blow-off valve. No. 1,394,657; Oct. 25.
- Wertz, Jacob. (See Liechty, H., and Wertz.)
- Wescott, William B., Wellesley, assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass. Treatment of cinematographic films. No. 1,380,279; May 31; v. 286; p. 998.
- Wescott, William B., Wellesley, assignor, by mesne assignments, to Protein Products Corporation, Boston, Mass. Trocar. No. 1,380,447; June 7; v. 287; p. 23.
- Wescott, William B., Wellesley, assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass. Motion-picture camera. No. 1,383,357; July 5; v. 288; p. 20.
- Wescott, William B., Wellesley Hills, assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass. Cinematographic multiplex projection, &c. No. 1,391,029; Sept. 20; v. 290; p. 450.
- Wesper, John A. (See Dettinger, M. L., Wesper, and Shewell.)
- Wessa, Laura M., Middleport, Ohio. Hair-dressing device. No. 1,386,296; Aug. 2; v. 289; p. 66.
- Wessel, Caper J. (See Adair, Elmer, assignor.)
- Wessels, Daniel D., Detroit, Mich. Range-boiler stand. No. 1,378,299; May 17; v. 286; p. 476.
- Wessely, Edward, New York, N. Y. Device for cleaning buttons or the like. No. 1,378,987; May 24; v. 286; p. 680.
- Wessman, Edwin G. (See Luellen, L. W., and Wessman.)
- Wessoleck, Augustus W., New Britain, Conn. Windshield-cleaner. No. 1,375,878; Apr. 26; v. 285; p. 617.
- Wesson, Laurence G., Chevy Chase, Md. Conversion of pinene compounds into isobornyl ester and camphene mixture. No. 1,372,382; Mar. 22; v. 284; p. 668.
- West, Augustus A., Philadelphia, Pa. Bathtub seat. No. 1,371,715; Mar. 15; v. 284; p. 484.
- West, Augustus A., assignor to D. L. Short, Philadelphia, Pa. Hair-curler. No. 1,381,775; June 14; v. 287; p. 328.
- West, Augustus A., assignor to D. L. Short, Philadelphia, Pa. Hair-curler. No. 1,381,776; June 14; v. 287; p. 328.
- West, Brennan B., Lakewood, assignor to The Outlook Company, Cleveland, Ohio. Signaling device. No. 1,364,536; Jan. 4; v. 282; p. 95.
- West, Chalmers A., Mangum, Okla. Draft-elevator. No. 1,397,474; Nov. 15.
- West, Charles, London, England. Fastening device. No. 1,373,782; Apr. 5; v. 285; p. 77.
- West, Charles E., Higham Hill, Walthamstow, England. Machine for casting metals. No. 1,376,661; May 3; v. 286; p. 53.
- West, Charles J., assignor to Reed Ekegren & Co., Harlem, Mont. Differential rack. No. 1,389,233; Aug. 30; v. 289; p. 883.
- West, Clyde, Fall River, Kans. Carbureter accessory. No. 1,401,381; Dec. 27.
- West Coast Kalsomine Company. (See Ball, Frank, assignor.)
- West Disinfecting Company. (See Marcuse, Moses M., assignor.)
- West, Edward A., West Park, and E. E. Parsons, assignors to The Oil Gas Producer Company, Cleveland, Ohio. Oil-gas producer. No. 1,386,038; Aug. 2; v. 289; p. 16.
- West, Frank A., Newburg, Me. Adjustable pulley. No. 1,395,884; Nov. 1.
- West, Frank P., Chicago, Ill. Metallic cement. No. 1,388,011; Aug. 16; v. 289; p. 530.
- West, Frederick J., M. Jackson, and H. T. Leader, assignors of one-fourth to A. Baxter, Detroit, Mich. Concrete tunnel structure. No. 1,378,158; May 17; v. 286; p. 450.
- West, Horatio G., Harrisville, R. I. Picker. No. 1,397,475; Nov. 15.
- West, John B., and L. J. Walz, assignor to Tidewater Paper Mills Company, Brooklyn, N. Y. Apparatus for heading rolls of paper. No. 1,394,700; Oct. 25.
- West, John E., Jr., Central City, Nebr. Clothespin-basket. No. 1,380,087; May 31; v. 286; p. 962.
- West, Leonidas D., Denver, Colo. Fuel-saver and smoke-consumer. No. 1,390,946; Sept. 13; v. 290; p. 371.
- West, Leonidas D., Denver, Colo. Air-heater for stoves and furnaces. No. 1,390,947; Sept. 13; v. 290; p. 371.
- West Michigan Steel Foundry Co. (See Jeannot, William E., assignor.)
- West, Norman L., Columbiana, Ala. Lock washer and nut. No. 1,371,134; Mar. 8; v. 284; p. 307.
- West, Perry, Newark, N. J., assignor to Anti-Corrosion Engineering Company. Device for controlling the flow of fluids. No. 1,376,596; May 3; v. 286; p. 41.
- West, Preston C., Kindersley, Saskatchewan, Canada. Shocker. No. 1,371,960; Mar. 15; v. 284; p. 530.
- West Steel Casting Company, The. (See McGlynn, Joseph B., assignor.)
- West, Walter A., Elkhorn, Wis. Can-jacket. No. 1,375,480; Apr. 19; v. 285; p. 509.
- West, Walter P., Napa, and J. H. Smith, San Francisco, Calif. Rotary rasp. No. 1,379,146; May 24; v. 286; p. 710.
- Westbeld, Frank, Cleveland, Ohio. Umbrella. No. 1,369,996; Mar. 1; v. 284; p. 46.
- Westbrook, Luther J., Flowery Branch, Ga. Plow. No. 1,401,020; Dec. 20.
- Westcott, Charles B., Savannah, Ga. Spark-plug. No. 1,369,311; Feb. 22; v. 283; p. 617.
- Westcott, Henry P., Erie, Pa. Attachment for differential and static pressure gages. No. 1,385,234; July 19; v. 288; p. 540.
- Wester, Arthur A., Boone, Iowa. Toy vehicle. No. 1,378,434; May 17; v. 286; p. 501.
- Wester, Svante, San Francisco, Calif. Combined hammock and knapsack. No. 1,380,167; May 31; v. 286; p. 977.
- Westerbeck, Frederick, St. Louis, Mo. Container. No. 1,370,865; Mar. 8; v. 284; p. 256.
- Westerbeck, Frederick, St. Louis, Mo. Container. No. 1,381,148; June 14; v. 287; p. 210.
- Westerbeck, Frederick, St. Louis, Mo. Sheet-metal box. No. 1,398,409; Nov. 29.
- Westerberg, Carl G., Monessen, Pa. Rim for vehicle-wheels. No. 1,383,358; July 5; v. 288; p. 21.
- Westerberg, Carl A., assignor to Aktiebolaget C. E. Johansson, Eskilstuna, Sweden. Base for holders for measuring-blocks. No. 1,397,189; Nov. 15.
- Westerlund, Charlie, Birmingham, Ala., assignor of one-third to F. W. Bostrom, Chicago, Ill. Heater attachment for grates and stoves. No. 1,383,506; July 5; v. 288; p. 51.
- Westerman, Frederick, Chicago, Ill. Depositing-machine. No. 1,392,034; Sept. 27; v. 290; p. 728.
- Wessels, Daniel D., Detroit, Mich. Molded receptacle. No. 1,399,174; Dec. 6.
- Wessel, Karl, St. Paul, Minn. Building-slab. No. 1,400,115; Dec. 13.
- Western Aircraft Corporation. (See Balzer, V. W., and Ballou, assignors.)
- Western District Cooperative Produce and Insurance Company Limited. (See Abbey, Benjamin, assignor.)
- Western Electric Company. (See Adams, Arthur H., assignor.)
- Western Electric Company. (See Adams, Edgar W., assignor.)
- Western Electric Company. (See Allen, Roy M., assignor.)
- Western Electric Company. (See Arnold, Harold D., assignor.)
- Western Electric Company. (See Arnold, Harold De F., assignor.)
- Western Electric Company. (See Ashbaugh, R. P., and Cawthon, assignors.)



*Alphabetical list of patentees—Continued.*

- Western Electric Company. (See Atwood, George F., assignor.)
- Western Electric Company. (See Baldof, Bruno E., assignor.)
- Western Electric Company. (See Bancroft, Erwin P., assignor.)
- Western Electric Company. (See Barber, Charles C., assignor.)
- Western Electric Company. (See Beck, William O., assignor.)
- Western Electric Company. (See Bell, John H., assignor.)
- Western Electric Company. (See Bellamy, Harry T., assignor.)
- Western Electric Company. (See Betts, Walter L., assignor.)
- Western Electric Company. (See Booth, William T., assignor.)
- Western Electric Company. (See Bradbury, Clifford C., assignor.)
- Western Electric Company. (See Britton, Ernest C., assignor.)
- Western Electric Company. (See Buckley, Oliver E., assignor.)
- Western Electric Company. (See Bullard, A. M., and Reynolds, assignors.)
- Western Electric Company. (See Butterfield, Joseph T., assignor.)
- Western Electric Company. (See Campbell, Melvin H., assignor.)
- Western Electric Company. (See Clausen, H. P., and Goodrum, assignors.)
- Western Electric Company. (See Clement, Lewis M., assignor.)
- Western Electric Company. (See Collis, Raymond E., assignor.)
- Western Electric Company. (See Colpitts, Edwin H., assignor.)
- Western Electric Company. (See Conway, Roy D., assignor.)
- Western Electric Company. (See Coon, Leslie E., assignor.)
- Western Electric Company. (See Correia, João N., assignor.)
- Western Electric Company. (See Crawford, Gustavus C., assignor.)
- Western Electric Company. (See Crawford, Walter G., assignor.)
- Western Electric Company. (See Cummings, George C., assignor.)
- Western Electric Company. (See Curtis, Austen M., assignor.)
- Western Electric Company. (See Davisson, Clinton J., assignor.)
- Western Electric Company. (See Deakin, Gerald, assignor.)
- Western Electric Company. (See Dixon, Amos F., assignor.)
- Western Electric Company. (See Dodge, W. L., and MacPherson, assignors.)
- Western Electric Company. (See Dodge, William L., assignor.)
- Western Electric Company. (See Dowd, Andrew D., assignor.)
- Western Electric Company. (See Edelmänn, Otto, assignor.)
- Western Electric Company. (See Egerton, Henry C., assignor.)
- Western Electric Company. (See Elmen, Gustaf W., assignor.)
- Western Electric Company. (See Field, Joseph C., assignor.)
- Western Electric Company. (See Fitch, Albert L., assignor.)
- Western Electric Company. (See Ford, William H. D., assignor.)
- Western Electric Company. (See Fowler, Clarence B., assignor.)
- Western Electric Company. (See Fredericks, John, assignor.)
- Western Electric Company. (See Gardner, Fred G., assignor.)
- Western Electric Company. (See Gauthier, Ernest, assignor.)
- Western Electric Company. (See Gent, Edgar W., assignor.)
- Western Electric Company. (See Gilson, A. F. F., and Shann, assignors.)
- Western Electric Company. (See Gilson, Albert F. F., assignor.)
- Western Electric Company. (See Goodrum, C. L., and Clausen, assignors.)
- Western Electric Company. (See Goodrum, Charles L., assignor.)
- Western Electric Company. (See Grace, Bertram B., assignor.)
- Western Electric Company. (See Griffin, J. T., and Timm, assignors.)
- Western Electric Company. (See Griffin, J. T., Nelson, and Campbell, assignors.)
- Western Electric Company. (See Griffith, J. T., and Timm, assignors.)
- Western Electric Company. (See Grondahl, Hans H. C., assignor.)
- Western Electric Company. (See Haddock, Arthur, assignor.)
- Western Electric Company. (See Hall, John A., assignor.)
- Western Electric Company. (See Halter, Carl, assignor.)
- Western Electric Company. (See Hargan, Augustus D., assignor.)
- Western Electric Company. (See Harlow, John B., assignor.)
- Western Electric Company. (See Harris, Jonathan W., assignor.)
- Western Electric Company. (See Harrison, Henry C., assignor.)
- Western Electric Company. (See Hartley, Ralph V. L., assignor.)
- Western Electric Company. (See Heising, Raymond A., assignor.)
- Western Electric Company. (See Heydt, George H., assignor.)
- Western Electric Company. (See Hill, Owen E., assignor.)
- Western Electric Company. (See Horton, Joseph W., assignor.)
- Western Electric Company. (See Hosford, William F., assignor.)
- Western Electric Company. (See Janicki, John, assignor.)
- Western Electric Company. (See Jenkins, George M. O., assignor.)
- Western Electric Company. (See Jillard, A. G., and Bracken, assignors.)
- Western Electric Company. (See Johnson, Kenneth S., assignor.)
- Western Electric Company. (See Keckler, Charles W., assignor.)
- Western Electric Company. (See Kochendorfer, F. S., and Blount, assignors.)
- Western Electric Company. (See Leveridge, Walter J., assignor.)
- Western Electric Company. (See Linder, Oscar, assignor.)
- Western Electric Company. (See Lubberger, F., and Pinell, assignors.)
- Western Electric Company. (See Lundell, Alben E., assignor.)
- Western Electric Company. (See Lundell, George A. E., assignor.)
- Western Electric Company. (See Lundquist, Frank A., assignor.)
- Western Electric Company. (See Lundquist, Frank A., assignor.) (Reissue.)
- Western Electric Company. (See MacDougal, H. W., and MacPherson, assignors.)
- Western Electric Company. (See MacDougall, Harry W., assignor.)
- Western Electric Company. (See MacPherson, Hugh D., assignor.)
- Western Electric Company. (See Mather, George E., assignor.)
- Western Electric Company. (See McQuarrie, J. L., and Goodrum, assignors.)
- Western Electric Company. (See McQuarrie, James L., assignor.)
- Western Electric Company. (See Menefee, Harry R., assignor.)
- Western Electric Company. (See Merritt, Benjamin F., assignor.)
- Western Electric Company. (See Mills, John, assignor.)
- Western Electric Company. (See Milton, Ivan L., assignor.)
- Western Electric Company. (See Minton, John P., assignor.)
- Western Electric Company. (See Moore, Charles P., assignor.)
- Western Electric Company. (See Mortimer, Louis A., assignor.)
- Western Electric Company. (See Nicolson, Alexander M., assignor.)
- Western Electric Company. (See Palmer, Joel C. R., assignor.)
- Western Electric Company. (See Pfannenstiehl, Harry, assignor.)
- Western Electric Company. (See Polinkowski, Lipa, assignor.)
- Western Electric Company. (See Powell, Winfred T., assignor.)
- Western Electric Company. (See Pruessman, Albert, assignor.) (Reissue.)
- Western Electric Company. (See Pugh, H. W., and Wotton, assignors.)
- Western Electric Company. (See Pugh, Harry W., assignor.)
- Western Electric Company. (See Quass, Ralph L., assignor.)
- Western Electric Company. (See Rainey, P. M., and Dowd, assignors.)
- Western Electric Company. (See Rainey, Paul M., assignor.)
- Western Electric Company. (See Raynsford, Arthur, assignor.)
- Western Electric Company. (See Read, Harry S., assignor.)
- Western Electric Company. (See Reddig, Charles E., assignor.)



*Alphabetical list of patentees—Continued.*

- Western Electric Company. (See Reynolds, John N., assignor.)
- Western Electric Company. (See Rhodes, W. A., and Anderson, assignors.)
- Western Electric Company. (See Riecken, William E., assignor.)
- Western Electric Company. (See Scriven, Edward O., assignor.)
- Western Electric Company. (See Shann, Oscar A., assignor.)
- Western Electric Company. (See Shewhart, Walter A., assignor.)
- Western Electric Company. (See Shreeve, Herbert E., assignor.)
- Western Electric Company. (See Soper, C. P., and Hall, assignors.)
- Western Electric Company. (See Speed, James B., assignor.)
- Western Electric Company. (See Sperry, Arthur B., assignor.)
- Western Electric Company. (See Stearn, F. A., and Scudder, assignors.)
- Western Electric Company. (See Stull, John S., assignor.)
- Western Electric Company. (See Sultzter, Morton, assignor.)
- Western Electric Company. (See Taggart, Dawson M., assignor.)
- Western Electric Company. (See Thompson, George, assignor.)
- Western Electric Company. (See Thronsen, Sigurd, assignor.)
- Western Electric Company. (See Timm, William A., assignor.)
- Western Electric Company. (See Ulrich, Horace W., assignor.)
- Western Electric Company. (See Van der Bijl, Hendrik J., assignor.)
- Western Electric Company. (See Waldron, Fred D., assignor.)
- Western Electric Company. (See Wegel, Raymond L., assignor.)
- Western Electric Company. (See White, Charles, assignor.)
- Western Electric Company. (See Whiting, Donald F., assignor.)
- Western Electric Company. (See Wickstrom, Charles A., assignor.)
- Western Electric Company. (See Wier, H. B., and Capen, assignors.)
- Western Electric Company. (See Wilbur, R. S., and Bendernagle, assignors.)
- Western Electric Company. (See Wilbur, R. S., and Spencer, assignors.)
- Western Electric Company. (See Wilbur, Ray S., assignor.)
- Western Electric Company. (See Williams, Samuel B., Jr., assignor.)
- Western Electric Company. (See Wilson, R. H., and Schafer, assignors.)
- Western Electric Company. (See Wotton, James A., assignor.)
- Western Electric Company. (See Wright, Joseph L., assignor.)
- Western Electric Company, Incorporated. (See Colpitts, E. H., and Arnold, assignors.)
- Western Electric Company Incorporated. (See Dobbin, H. R., and Gent, assignors.)
- Western Electric Company Incorporated. (See Fletcher, H., and Strassner, assignors.)
- Western Electric Company Incorporated. (See Pfannenstiehl, H., and Watson, assignors.)
- Western Electric Manufacturing Company. (See Tynn, Valère A., assignor.)
- Western Manufacturing Co. (See McMullin, Joseph B., assignor.)
- Western Pump and Machinery Company. (See Lykken, Henry G., assignor.)
- Western Rubber Mold Company. (See Brooks, Roscoe A., assignor.)
- Western States Machine Company, The. (See Roberts, Eugene, assignor.)
- Western Union Telegraph Company, The. (See Benjamin, George R., assignor.)
- Western Union Telegraph Company, The. (See Milnor, Joseph W., assignor.)
- Western Union Telegraph Company, The. (See Murray, Donald, assignor.)
- Western Vulcanizer Manufacturing Company. (See Maier, Fred, assignor.)
- Western Wheeled Scraper Company. (See Benbow, James D., assignor.)
- Westfall, David, New York, N. Y. Outboard-condenser. No. 1,380,618; June 7; v. 287; p. 55.
- Westfeling, Willi, Lubeck, Germany. Holder for hanging articles. No. 1,386,480; Aug. 2; v. 289; p. 100.
- Westgate, John, Brimsstage, and C. E. H. Hawken, Wallasey, England. Railway-car and like vehicle. No. 1,384,500; July 12; v. 288; p. 306.
- Westinghouse Air Brake Co., assignee. (See Turner, Walter V., assignor.) (Reissue.)
- Westinghouse Air Brake Company, The. (See Boyden, George A., assignor.)
- Westinghouse Air Brake Company, The. (See Brown, Thomas R., assignor.)
- Westinghouse Air Brake Company, The. (See Cass, Christopher P., assignor.)
- Westinghouse Air Brake Company, The. (See Dapron, Joseph M., assignor.)
- Westinghouse Air Brake Company, The. (See Dudley, Samuel W., assignor.)
- Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
- Westinghouse Air Brake Company, The. (See Grosswege, John B., assignor.)
- Westinghouse Air Brake Company, The. (See Loudenbeck, Harry C., assignor.)
- Westinghouse Air Brake Company, The. (See St. John, Ansel, assignor.)
- Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
- Westinghouse Air Brake Company, The. (See Turner, Walter V., assignor.)
- Westinghouse Air Brake Company, The. (See Westinghouse, Henry H., assignor.)
- Westinghouse Air Brake Company, The. (See Woernley, Harry F., assignor.)
- Westinghouse Air Spring Company, The. (See Liebau, Richard, assignor.)
- Westinghouse Air Spring Company. (See Sabo, Julius G., assignor.)
- Westinghouse Electric & Manufacturing Co. (See Baumann, Karl, assignor.)
- Westinghouse Electric & Manufacturing Co. (See Ehrhart, Raymond H., assignor.)
- Westinghouse Electric & Manufacturing Co. (See Evans, Lewis J., assignor.)
- Westinghouse Electric & Manufacturing Co. (See Flanders, Warren B., assignor.)
- Westinghouse Electric & Manufacturing Co. (See Herr, Herbert T., assignor.)
- Westinghouse Electric & Manufacturing Co. (See Hodgkinson, Francis, assignor.)
- Westinghouse Electric & Manufacturing Co. (See Lindgren, Edwin, assignor.)
- Westinghouse Electric & Manufacturing Co. (See Schmidt, Henry F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Abtmeier, Theodore, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Allcutt, Chester T., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Arnold, John T., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Atherton, Alfred L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Austin, Bascum O., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Baggs, A. E., and Heckman, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Barnholdt, Harold L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Bradshaw, W. M., and Boddie, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Brahmer, Leland F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Brown, Chester A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Brown, James M., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Candee, A. H., and Johnston, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Candee, Andrew H., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Chubb, L. W., and Slepian, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Clarke, John A., Jr., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Clarke, J. A., Jr., and Schenck, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Claytor, Edward M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Conrad, Frank, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Cook, Joel R., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Copley, Almon W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Coulson, John, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Crichton, Leslie N., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Dann, Walter M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Darlington, Frederick, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Darrah, William A., assignor.)



*Alphabetical list of patentees—Continued.*

- Westinghouse Electric and Manufacturing Company. (See Dean, John S., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See De Camp, Ray E., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Dickey, Daniel A., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Dixon, Walter C., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Dodds, Samuel R., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Ehrenfeld, R., and Hansen, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Ehrhart, R. N., and Powell, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Ehrhart, Raymond N., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Eschholz, Otto H., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Ferris, Ralph E., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Fix, Frank, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Fortescue, C. L., and Gilchrist, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Fortescue, Charles L., assignor.)  
 Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Frederick, Louis T., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Garbutt, Harry L., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Garcelon, G. H., and Weber, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Garcelon, George H., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Gazda, Adolph A., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Gysel, Max E., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Hague, Floyd T., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Hall, A. J., and Mardis, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Hall, Arthur J., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Hanft, Edward A., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Hanker, Frederic C., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Hansen, Klaus L., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Harlow, George, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Harvey, A. L., and Huey, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Harvey, Albert L., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Hellmund, R. E., and Perkins, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Hellmund, Rudolf E., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Hengstenberg, Paul M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Henninger, Phillip E., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Herr, Edwin M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Hipple, Oliver P., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Hodgkins, Charles H., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Hoey, Samuel C., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Holy, George H. F., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Howard, David G., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Jackson, Ray P., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See James, H. D., and De Camp, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Johnson, Josiah F., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Johnston, Harvey H., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Johnston, Howard H., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Jones, Maurice F., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Kasley, Alexander T., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Keith, Harold L., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Kemp, Robert, assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Kempton, Willard H., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Kunkle, Bayard D., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Kuyser, Jan A., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Lamme, Benjamin G., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Lammers, Edwin S., Jr., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Langguth, Joseph O., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Lawson, Charles S., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Lewis, Harry A., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Lovell, William V., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Loudon, Warren P., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Lum, Walter O., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See MacNeill, John B., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Mahoney, J. N., and Austin, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Mahoney, J. N., and Christman, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Mahoney, J. N., and MacDonald, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Mahoney, J. N., and MacNeill, assignors.)  
 Westinghouse Electric and Manufacturing Company. (See Marbury, Ralph E., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Mardis, P. L., and Riley, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Mateer, J. E., and Allcutt, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Mateer, Jesse E., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Matthews, Harry, assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Mattman, Emil, assignor.)  
 Westinghouse Electric & Manufacturing Company. (See McCarty, Roy A., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See McClain, John R., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See McConahey, William M., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See McCoy, James P. A., assignors.) (Reissue.)  
 Westinghouse Electric & Manufacturing Company. (See McCoy, Walter E., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See McCulloch, Leon, assignor.)  
 Westinghouse Electric & Manufacturing Company. (See McInerney, Benjamin, assignor.)  
 Westinghouse Electric & Manufacturing Company. (See McKay, Thomas C., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Meyer, Friedrich W., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Meyer, Harry R., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Miles, John G., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Miller, Frederick H., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Miller, Leonard, assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Mills, Chester B., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Mills, Isaac H., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Moore, Edward T., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Morris, Hurd T., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Moss, Charles M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Nagel, Harry C., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Newbury, F. D., and James, assignors.)  
 Westinghouse Electric & Manufacturing Company. (See Newbury, Frank D., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Nottage, Stanley G., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Packer, Alfred H., assignor.)  
 Westinghouse Electric and Manufacturing Company. (See Parks, Fred M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Pierce, Raymond T., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Pittman, Ernest W., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Ponsonby, Amos A., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Perkins, Laurence M., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Pribil, Alexis R., assignor.)  
 Westinghouse Electric & Manufacturing Company. (See Prugger, Raoul, assignor.)



*Alphabetical list of patentees—Continued.*

- Westinghouse Electric & Manufacturing Company. (See Richards, Howard N., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Riggsby, John P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Riley, Lynn G., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rose, E. E., and Smith, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Rottmann, Clarence J., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Rowe, Bertrand P., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Scanes, Arthur E. L., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schaake, William, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Schairer, O. S., and Coley, assignors.)
- Westinghouse Electric and Manufacturing Company. (See Schairer, Otto S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Scott, Charles F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Shepard, Francis H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Slemmon, W. H., and Garbutt, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Simmon, K. A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Simmon, Karl A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Smith, Benjamin H., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Smith, Gerald F., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Smith, Marvin W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Spooner Thomas, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Storer, N. W., and Hellmund, assignors.)
- Westinghouse Electric & Manufacturing Company. (See Storer, Norman W., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Stupenhurst, John A., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Sykes, Wilfred, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Taylor, Harold B., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Taylor, Horace V. S., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Thomas, Phillips, assignor.)
- Westinghouse Electric and Manufacturing Company. (See Thornton, Frank, Jr., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Tirrill, Allen A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See von Kando, Kalman, assignor.)
- Westinghouse Electric & Manufacturing Company. (See Wahlberg, Nils J. A., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Walrath, Burton A., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Weber, Clifford A. M., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Whittaker, Charles C., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Wilson, Charles E., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Woodward, Walter R., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Yardley, John L. M., assignor.)
- Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)
- Westinghouse Electric Products Company. (See Thornton, Frank, Jr., assignor.)
- Westinghouse Electric Products Company. (See Woodson, James C., assignor.)
- Westinghouse Gear & Dynamometer Company. (See Schmidt, Henry F., assignor.)
- Westinghouse, Henry H., New York, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,390,597; Sept. 13; v. 290; p. 300.
- Westinghouse, Henry H., New York, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Lubricating device. No. 1,400,647; Dec. 20.
- Westinghouse Lamp Company. (See Birdsall, Wilfred T., assignor.)
- Westinghouse Lamp Company. (See Blackwell, William T., assignor.)
- Westinghouse Lamp Company. (See Dickson, William P., assignor.)
- Westinghouse Union Battery Company. (See Cook, Thomas R., assignor.)
- Westinghouse Union Battery Company. (See Norris, Paul E., assignor.)
- Westlake, Charles, Jr. (See Jones, L., and Westlake, Jr.)
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Six-wheel car-truck. No. 1,367,904; Feb. 8; v. 283; p. 258.
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Locomotive trailer-truck. No. 1,367,905; Feb. 8; v. 283; p. 258.
- Westlake, Charles T., assignor to Locomobile Tender Frame Company, St. Louis, Mo. Locomotive-tender underframe. No. 1,370,866; Mar. 8; v. 284; p. 256.
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Car-truck. No. 1,371,586; Mar. 15; v. 284; p. 459.
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Six-wheel car-truck. No. 1,371,587; Mar. 15; v. 284; p. 459.
- Westlake, Charles T., assignor to Locomobile Tender Frame Company, St. Louis, Mo. Locomotive-tender frame. No. 1,371,588; Mar. 15; v. 284; p. 460.
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Trailer-truck for locomotives. No. 1,378,203; May 17; v. 286; p. 458.
- Westlake, Charles T., assignor to Locomobile Tender Frame Company, St. Louis, Mo. Locomotive-tender underframe. No. 1,378,204; May 17; v. 286; p. 458.
- Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Car-truck. No. 1,385,737; July 26; v. 288; p. 718.
- Westlund, Albert F., Indianapolis, Ind., assignor to Prest-O-Lite Co., Inc. Cylinder-filling machine. No. 1,366,615; Jan. 25; v. 282; p. 627.
- Westman, Alfred D. (See Westman, William H. and A. D., and Richards.)
- Westman, August, Quincy, Ill., assignor of one-half to E. A. Westman, St. Louis, Mo. Poultry-hover. No. 1,385,235; July 19; v. 288; p. 540.
- Westman, Edward A. (See Westman, August, assignor.)
- Westman, William H. and A. D., and J. N. Richards, Chatham, Ontario, Canada. Oil-cock-wrench. No. 1,392,728; Oct. 4.
- Westner, Harry, Toronto, Ontario, Canada. Oil-burner. No. 1,399,096; Dec. 6.
- Westness, Louis J., Milwaukee, Wis. Furnace. No. 1,369,069; Feb. 22; v. 283; p. 571.
- Weston, Clarence J., Port Dodge, Iowa. Conveying-receptacle. No. 1,378,574; May 17; v. 286; p. 528.
- Weston, Edward B., assignor to The Weston Paper & Manufacturing Company, Dayton, Ohio. Display-rack. No. 1,381,607; June 14; v. 287; p. 295.
- Weston, Frederick P., and J. H. Graham, assignors to The Torrington Company, Torrington, Conn. Pedal. No. 1,377,376; May 10; v. 286; p. 247.
- Weston, John R., Dubuque, Iowa. Engine and radiator heater. No. 1,389,109; Aug. 30; v. 289; p. 859.
- Weston Paper & Manufacturing Company. (See Weston, Edward B., assignor.)
- Weston, William S., Columbia, S. C. Fastening means for the head of gyratory crushing-machines. No. 1,383,359; July 5; v. 288; p. 21.
- Westover, Herbert R., Amesbury, Mass., assignor to Hamel Shoe Machinery Company. Shoe-coating machine. No. 1,366,441; Jan. 25; v. 282; p. 591.
- Westphal, Frederick C., New Brunswick, N. J. Game device. No. 1,401,844; Dec. 27.
- Westrope, Mary E., David City, Nebr. Cushion for hats. No. 1,377,107; May 3; v. 286; p. 139.
- Westrup, Eric. (See Westrup, Oliver F. and E.)
- Westrup, Oliver F. and E., New Brighton, England. Adjustable slack-holder for cords, &c. No. 1,386,918; Aug. 9; v. 289; p. 262.
- West's Gas Improvement Company. (See Wild, William, assignor.)
- Wetherill, Robert, Jr. (See McClimon, J. S., and Wetherill, Jr.)
- Wethling, Harry D., Orange, N. J. Lock. No. 1,364,665; Jan. 4; v. 282; p. 119.
- Wetmore, Albert G., Plymouth, Ind. Box and process of and apparatus for the manufacture thereof. No. 1,394,593; Oct. 25.
- Wetmore, Charles P., Milwaukee, Wis. Automatic stop for sound-reproducing machines. No. 1,380,028; May 31; v. 286; p. 951.
- Wetmore, Harry W., San Jose, Calif. Device for protecting the lips of players of wind musical instruments. No. 1,286,823; Aug. 9; v. 289; p. 243.
- Wetzel, West, Chicopee, assignor to Bausb Machine Tool Company, Springfield, Mass. Multiple-drill machine. No. 1,366,044; Jan. 18; v. 282; p. 470.
- Wetter, Ralph E., assignor to Universal Traffic Control Company, (a trust estate), Dallas, Tex. Traffic signal system. No. 1,385,807; July 26; v. 288; p. 733.
- Wetervik, Axel, Iron River, Mich. Rail-cleaning machine. No. 1,372,212; Mar. 22; v. 284; p. 635.
- Wetzel, Kurt O., Co. (See Wetzel, Kurt O., assignor.)
- Wetzel, Kurt O., assignor to K. O. Wetzel Co., Los Angeles, Calif. Anchoring device. No. 1,379,065; May 24; v. 286; p. 694.
- Wetzel, Lewis C., assignor, by mesne assignments, to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,367,220; Feb. 1; v. 283; p. 67.
- Wetzels, Ch. Henri E. (See Quaglia, G., and Capello, assignors.)
- Wetzstein, Henry A., Brooklyn, N. Y. Tool. No. 1,390,071; Sept. 6; v. 290; p. 104.



## Alphabetical list of patentees—Continued.

- Weyer, Fritz, Stuttgart, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Machine for making layer fabrics. No. 1,392,287; Sept. 27; v. 290; p. 778.
- Wexler, Benjamin, Brooklyn, N. Y., assignor to The Peelle Company, a Corporation of New York. Elevator-door. No. 1,381,261; June 14; v. 287; p. 231.
- Wexler, Benjamin, Brooklyn, N. Y., assignor to The Peelle Company, a Corporation of New York. Locking mechanism for elevator-doors. No. 1,381,262; June 14; v. 287; p. 231.
- Wexler, Benjamin, Brooklyn, N. Y., assignor to The Peelle Company, a Corporation of New York. Locking mechanism for automatic elevator-doors. No. 1,381,263; June 14; v. 287; p. 231.
- Weyand, Edith V. C., New York, N. Y. Garment material. No. 1,374,970; Apr. 19; v. 285; p. 411.
- Weyandt, Carl S., Pittsburgh, Pa. Electrical tool. No. 1,397,567; Nov. 22.
- Weydell, Frank O., Chicago, Ill. Drawing-board table. No. 1,373,473; Apr. 5; v. 285; p. 18.
- Weyerhaeuser Forest Products. (See Onstad, Albert H., assignor.)
- Weyers, Aloysius W. F., Tilburg, Netherlands. Down-draft-kiln. No. 1,379,324; May 24; v. 286; p. 744.
- Whalen, William J., Cleveland, Ohio. Flexible member for belts. No. 1,382,700; June 28; v. 287; p. 616.
- Whaley, W. B. S., Malden, assignor to American Whaley Engine Company, Boston, Mass. Method and apparatus for controlling the condition of air in compartments. No. 1,384,367; July 12; v. 288; p. 279.
- Whaley, William, trustee. (See Whaley, William, assignor.)
- Whaley, William, Knoxville, Tenn. Loading-machine. No. 1,379,427; May 24; v. 286; p. 763.
- Whaley, William, Knoxville, Tenn., assignor to said William Whaley, trustee. Shoveling-machine. No. 1,379,428; May 24; v. 286; p. 763.
- Whaley, William B. S., Malden, assignor to American Whaley Engine Company, Boston, Mass. Automatic governing mechanism for internal-combustion engines. No. 1,289,801; Sept. 6; v. 290; p. 48.
- Whaley, William B. S., Malden, assignor to American Whaley Engine Company, Boston, Mass. Automatic pressure-regulating valve. No. 1,377,647; May 10; v. 286; p. 298.
- Whaley, William B. S., Malden, assignor to American Whaley Engine Company, Boston, Mass. Internal-combustion engine. No. 1,378,072; May 17; v. 286; p. 433.
- Whaley, William B. S., Malden, assignor to American Whaley Engine Co., Boston, Mass. Composite ship. No. 1,380,693; June 7; v. 287; p. 70.
- Whaley, William B. S., Malden, assignor to American Whaley Engine Company, Boston, Mass. Gate-valve. No. 1,391,987; Sept. 27; v. 290; p. 718.
- Whalley, Thomas H., Blackburn, England. Loom-shuttle. No. 1,398,660; Nov. 29.
- Wharton, Harry M. (See Cooper, James C., Sr., assignor.)
- Wharton, William, Jr., & Company. (See Psilander, Charles A., assignor.)
- What Cheer Braid Company. (See King, Edward F., assignor.)
- Whatley, George W., Clovis, N. Mex. Clevis. No. 1,373,692; Apr. 5; v. 285; p. 60.
- Whealey, Joseph S. A. (See Holtham, Samuel J., assignor.)
- Wheary, George H., Racine, Wis. Trunk flatiron-holder. No. 1,365,361; Jan. 11; v. 282; p. 297.
- Wheary, George H., Racine, Wis. Automobile trunk-holder. No. 1,374,618; Apr. 12; v. 285; p. 281.
- Wheary, George H., Racine, Wis. Trunk laundry-bag and cover. No. 1,378,924; May 24; v. 286; p. 669.
- Wheary, George H., Racine, Wis. Reinforced trunk-edge construction. No. 1,381,149; June 14; v. 287; p. 211.
- Wheary, George H., Racine, Wis. Removable trunk-pad. No. 1,381,952; June 21; v. 287; p. 421.
- Wheary, George H., Racine, Wis. Retainer-bar for trunks. No. 1,382,701; June 28; v. 287; p. 616.
- Wheary, George H., Racine, Wis. Trunk ironing-board. No. 1,387,028; Aug. 9; v. 289; p. 333.
- Wheary, George H., Racine, Wis. Combination trunk-section cover and laundry-bag. No. 1,387,221; Aug. 9; v. 289; p. 320.
- Wheary, George H., Racine, Wis. Trunk-fixture. No. 1,401,219; Dec. 27.
- Wheat, Grant, assignor to Koehler Manufacturing Company, Marlboro, Mass. Storage battery. No. 1,389,174; Aug. 30; v. 289; p. 872.
- Wheat, William G., Kansas City, Mo. Underslung attachment for motor-vehicles. No. 1,394,242; Oct. 18.
- Wheatley, George H., Chicago, Ill. Hydraulic press. No. 1,370,675; Mar. 8; v. 284; p. 220.
- Wheatley, William T., Detroit, Mich. Sign. No. 1,395,621; Nov. 1.
- Wheaton, Harold J., near Warrington, assignor to Joseph Crossfield and Sons, Limited, Warrington, England. Base-exchange compound and making the same. No. 1,381,777; June 14; v. 287; p. 328.
- Wheelan, Robert B., New York, N. Y. Indicating attachment for sound-records. No. 1,398,289; Nov. 29.
- Wheeler, C. E., administrator. (See Wheeler, Leon H.)
- Wheeler, C. H., Manufacturing Company. (See Suczek, Robert, assignor.)
- Wheeler Condenser and Engineering Company. (See Christie, Evi W., assignor.)
- Wheeler Condenser and Engineering Company. (See Lonsdale, William, assignor.)
- Wheeler, Frank A., Flint, Mich. Air-turbine. No. 1,378,746; May 17; v. 286; p. 562.
- Wheeler, Frank E. (See Hall, C. W., and Wheeler.)
- Wheeler, George B., New York, N. Y. Washboard. No. 1,394,801; Oct. 25.
- Wheeler, George W., Lefroy, Ontario, Canada. Fish-decoy bait. No. 1,391,030; Sept. 20; v. 290; p. 450.
- Wheeler, Harry J., Kansas City, Mo. Manifold-heater for automobiles. No. 1,388,538; Aug. 23; v. 289; p. 691.
- Wheeler, Harry S., Elizabeth, N. J., assignor to L. J. Iving Mfg. Co., New York, N. Y. Exhauster. No. 1,391,645; Sept. 20; v. 290; p. 575.
- Wheeler, Irving, New York, N. Y. Convertible garment. No. 1,399,593; Dec. 6.
- Wheeler, James R., Winchester, Oreg. Impregnator. No. 1,366,616; Jan. 25; v. 282; p. 627.
- Wheeler, James R., Winchester, Oreg. Impregnator. No. 1,398,212; Nov. 22.
- Wheeler, John L., assignor to The Measuregraph Company, St. Louis, Mo. Zero-setting mechanism for measuring-machines. No. 1,390,323; Sept. 13; v. 290; p. 245.
- Wheeler, Leon H., deceased, Ellensburg, Wash., C. E. Wheeler, administrator, assignor of one-third to R. McCoy, New York, N. Y., and one-third to J. F. O'Brien, West New York, N. J. Foot-pump. No. 1,382,603; June 21; v. 287; p. 544.
- Wheeler, Orville, Waverly, Iowa. Spring-link. No. 1,395,780; Nov. 1.
- Wheeler, Portius R., Peoria, Ill. Internal-combustion engine. No. 1,393,593; Oct. 11.
- Wheeler, Seth, Castleton, N. Y. Machine for producing interfolded paper-packages. No. 1,393,415; Oct. 11.
- Wheeler, Silas N., Omaha, Nebr. Account-register. No. 1,383,890; July 5; v. 288; p. 131.
- Wheeler, William H., New York, N. Y. Fireproof door. No. 1,377,298; May 10; v. 286; p. 232.
- Wheeler, William I., Scottville, Ill. Transmission mechanism for automobiles. No. 1,374,265; Apr. 12; v. 285; p. 212.
- Wheeler, William I., Scottville, Ill. Transmission mechanism. No. 1,377,377; May 10; v. 286; p. 247.
- Wheeler, William I., Scottville, Ill. Speed-changing mechanism. No. 1,380,619; June 7; v. 287; p. 56.
- Wheeler, William I., Scottville, Ill. Speed-changing mechanism. No. 1,396,151; Nov. 8.
- Wheeler, Willoughby M., Melbourne, Victoria, Australia, assignor of one-half to Ozmo Oil Refining Company, San Francisco, Calif. Lowering the boiling and flashing point of kerosene and like hydrocarbon oils. No. 1,387,876; Aug. 16; v. 289; p. 504.
- Wheeling Steel & Iron Company. (See Peacock, Samuel, assignor.)
- Wheeling Tile Company. (See Amos, Frank M., assignor.)
- Wheelock, John H., Worcester, Mass., assignor to Klaxon Company, Newark, N. J. Sound-producing device. No. 1,388,986; Aug. 30; v. 289; p. 834.
- Wheildon, William M. (See Angier, E. H., and Wheildon.)
- Wheildon, William M., Ashland, assignor to E. H. Angier, Framingham, Mass. Collapsible container. No. 1,375,070; Apr. 19; v. 285; p. 431.
- Wheildon, William M., Ashland, assignor to H. Angier, Framingham, Mass. Paper-crinkling apparatus. No. 1,383,360; July 5; v. 288; p. 21.
- Wheildon, William M., Ashland, assignor to E. H. Angier, Framingham, Mass. Method of wrapping and means for practising the same. No. 1,400,116; Dec. 13.
- Wheildon, William M., Ashland, and E. H. Angier, Framingham, Mass.; said Wheildon assignor to said Angier. Packaging toric articles. No. 1,366,547; Jan. 25; v. 282; p. 613.
- Wheildon, William M., Ashland and E. H. Angier, Framingham, Mass.; said Wheildon assignor to said Angier. Wrapping-machine for annular articles. No. 1,380,448; June 7; v. 287; p. 23.
- Whelan, James A. (See Schubert, Herman, assignor.)
- Whelan, Mary A., Jersey City, N. J. Motor-vehicle. No. 1,377,237; May 10; v. 286; p. 219.
- Whelan, William, Plymouth, England. Adjustable pipe-wrench. No. 1,401,931; Dec. 27.
- Wherland, Robert F., Stanley N. D. Battery-machine. No. 1,400,471; Dec. 13.
- Wherley, Henry R., York, Pa. Railway-tie. No. 1,395,541; Nov. 1.
- Wherry, James B., Des Moines, Iowa, assignor to The Reinite Company. Manufacturing water-softening material. No. 1,388,133; Aug. 16; v. 289; p. 554.
- Wherry, John A., New Orleans, La. Shoe-ventilator. No. 1,364,226; Jan. 4; v. 282; p. 35.
- Wherry, John A., New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y. Collated manifold-pack. No. 1,369,312; Feb. 22; v. 283; p. 617.
- Wherry, John A., New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,388,987; Aug. 30; v. 289; p. 835.
- Whetsel, Walter R., Richmond, Ind. Automatic gravity-stop for phonographs. No. 1,381,685; June 14; v. 287; p. 310.



*Alphabetical list of patentees—Continued.*

- Whigelt, George, Dongon Hills, N. Y. Device for mixing materials. No. 1,381,686; June 14; v. 287; p. 311.
- Whigham, Frank, Kinston, Ala. Animal-poke. No. 1,377,299; May 10; v. 286; p. 232.
- Whitt, John E., Eureka, Mont. Safety anchoring-block. No. 1,369,910; Mar. 1; v. 284; p. 30.
- Whipp Bros. & Tod, Ltd. (See Craig, Thomas J. I., assignor.)
- Whipsey, Frederick C., Chicago, Ill. Locking bolt and nut. No. 1,387,085; Aug. 9; v. 289; p. 296.
- Whipple, Charles N., Bellingham, Wash. Draw-chain link. No. 1,377,450; May 10; v. 286; p. 261.
- Whipple, Lessie, and Z. Oneal, Shreveport, La. Safety scaleproof automatic gage-cock. No. 1,388,624; Aug. 23; v. 289; p. 708.
- Whipple, Ralph, Detroit, Mich. Automatic steering and control mechanism for tractors. (Reissue.) No. 1,521,4; Oct. 25.
- Whisler, Ralph H., assignor to Essex Motors, Detroit, Mich. Distributor unit for ignition systems. No. 1,370,077; Mar. 1; v. 284; p. 61.
- Whisler, Ralph H., assignor to Essex Motors, Detroit, Mich. Ignition system. No. 1,376,845; May 3; v. 286; p. 88.
- Whisler, Ralph H., assignor to Essex Motors, Detroit, Mich. Ignition system. No. 1,376,846; May 3; v. 286; p. 89.
- Whisler, Ralph H., assignor to Essex Motors, Detroit, Mich. Spark-plug coil. No. 1,393,866; Oct. 18.
- Whisler, Ralph H., assignor to Essex Motors, Detroit, Mich. Spark-plug-coil unit. No. 1,395,375; Nov. 1.
- Whitance-Smith, Thomas, Mount Dennis, Ontario, Canada. Folding bed. No. 1,384,932; July 19; v. 288; p. 477.
- Whitacre, James E., Rockford, Ill. Humidifier. No. 1,393,058; Oct. 11.
- Whitaker, Charles G., Lower Riccarton, Christchurch, New Zealand. Automatic lathe. No. 1,366,757; Jan. 25; v. 282; p. 655.
- Whitaker, Edna L., West Branch, Mich. Clamping-brace-let for mittens, gloves, &c. No. 1,377,648; May 10; v. 286; p. 298.
- Whitaker-Glessner Company. (See Gibbons, Nathan A., assignor.)
- Whitaker-Glessner Company. (See Hill, Hugh G., assignor.)
- Whitaker-Glessner Company. (See Hunker, Martin L., assignor.)
- Whitaker-Glessner Company. (See Reppetto, Harvey B., assignor.)
- Whitaker, Jack, Fort Dodge, Iowa. Track-clamp. No. 1,400,396; Dec. 13.
- Whitaker, James K., Jr., St. Louis, Mo. Pneumatic bumper. No. 1,380,759; June 7; v. 287; p. 83.
- Whitaker, James S., San Francisco, Calif. Propelling mechanism. No. 1,365,138; Jan. 11; v. 282; p. 254.
- Whitaker, John, assignor to Safe-Guard Check-Writer Company, Lansdale, Pa. Check printing and scarifying machine. No. 1,377,040; May 3; v. 286; p. 126.
- Whitaker, John E., Monroe, La. Counter. No. 1,385,292; July 19; v. 288; p. 551.
- Whitaker, Joseph P. (See Fielding, John, assignor.)
- Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Obtaining alcohol and potassium compounds. No. 1,376,662; May 3; v. 286; p. 53.
- Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Catalyzer apparatus. No. 1,396,389; Nov. 8.
- Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Obtaining potassium compounds. No. 1,400,192; Dec. 13.
- Whitaker, Milton C., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Container for volatile liquids. No. 1,400,193; Dec. 13.
- Whitaker, Raymond A. (See Punnett, M. B., and Whitaker.)
- Whitaker, William R. (See Danciewicz, A., and Whitaker.)
- Whitcomb, Forrest R., West Somerville, Mass. Valve-grinding device. No. 1,380,620; June 7; v. 287; p. 56.
- Whitcomb, James, and G. C. J. Gray, said Whitcomb assignor of one-eighth to C. E. Coblentz, Hastings, Nebr. Automobile-engine. No. 1,380,088; May 31; v. 286; p. 962.
- Whitcomb, James A., and R. Koehler, assignors to Kenosha Wheel and Axle Company, Kenosha, Wis. Rear-axle construction for motor-vehicles. No. 1,370,247; Mar. 1; v. 284; p. 94.
- Whitcomb, John D. (See Scott, J. H., and Whitcomb.)
- Whitcomb, Russell, Elizabeth, and G. H. Harman, Glen Ridge, N. J. Powder-puff. No. 1,376,179; Apr. 26; v. 285; p. 674.
- Whitcomb, William A., Millinocket, Me. Apparatus for storing and handling logs. No. 1,380,280; May 31; v. 286; p. 998.
- White, Albert, Williamstown, N. J. Loss-preventing device. No. 1,378,747; May 17; v. 286; p. 562.
- White, Albert J., Toronto, Ontario, Canada. Picture-frame vise. No. 1,393,059; Oct. 11.
- White, Albert N., Hill, N. H. Folding bed. No. 1,366,758; Jan. 25; v. 282; p. 655.
- White, Alfred B., et al., administrator. (See Preston, Albert F.)
- White, Alfred H., Washington, D. C. Making oxids of nitrogen. No. 1,370,867; Mar. 8; v. 284; p. 256.
- White, Alfred H., Ann Arbor, Mich. Destructively decomposing liquids of high organic content and product of such process. No. 1,374,889; Apr. 12; v. 285; p. 333.
- White, Andrew, and M. Granum, Montevideo, Minn. Grease-gun. No. 1,388,625; Aug. 23; v. 289; p. 708.
- White, Arthur, Sheboygan Falls, Wis. Machine for cleaning spark-plugs. No. 1,395,376; Nov. 1.
- White, Arthur H., Pittsburgh, Pa. Handle-securing wedge for tools. No. 1,388,539; Aug. 23; v. 289; p. 692.
- White, Barclay, Lansdowne, Pa. Reinforced concrete construction. No. 1,389,404; Aug. 30; v. 289; p. 918.
- White, Benjamin H., Stamford, Tex. Cotton-picker's sack. No. 1,370,248; Mar. 1; v. 284; p. 94.
- White, Birdora H., Chicago, Ill. Buckle or clamp. No. 1,378,391; May 17; v. 286; p. 493.
- White, Bruce C. (See Price, T. H. White, and Dudley.)
- White, Charles, Baltimore, Md. Piston-ring. No. 1,369,592; Feb. 22; v. 283; p. 672.
- White, Charles, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Generating system. No. 1,374,266; Apr. 12; v. 285; p. 212.
- White, Charles, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,386,747; Aug. 9; v. 289; p. 227.
- White, Charles E., assignor to Deere & Company, Moline, Ill. Planting mechanism. No. 1,369,862; Mar. 1; v. 284; p. 21.
- White, Charles F., New York, N. Y. Pin-ticket. No. 1,386,481; Aug. 2; v. 289; p. 100.
- White, Charles H., Hanford, Calif. Railway-crossing. No. 1,374,415; Apr. 12; v. 285; p. 242.
- White, Charles J., Leesville, La. Tractor. No. 1,374,049; Apr. 5; v. 285; p. 130.
- White, Charles W., Chamblee, Ga. Cotton-chopper. No. 1,380,281; May 31; v. 286; p. 998.
- White, David G., Boston, Mass. Student's non-electric telegraph-key. No. 1,372,730; Mar. 29; v. 284; p. 775.
- White, Donald H. (See Burningham, F. A., Richter, Van Arsdell, and White.)
- White, Donald H. (See Richter, G. A., Van Arsdell, and White.)
- White, D'Orsay M., assignor to La Fayette Motors Company, Indianapolis, Ind. Oil-pump for internal-combustion engines. No. 1,366,227; Jan. 18; v. 282; p. 506.
- White, D'Orsay M., assignor to La Fayette Motors Company, Indianapolis, Ind. Radiator cross-member support. No. 1,366,228; Jan. 18; v. 282; p. 506.
- White, D'Orsay M., assignor to La Fayette Motors Company, Indianapolis, Ind. Fan construction. No. 1,381,687; June 14; v. 287; p. 311.
- White, D'Orsay M., assignor to La Fayette Motors Company, Indianapolis, Ind. Steering mechanism for motor-vehicles. No. 1,391,031; Sept. 20; v. 290; p. 450.
- White, D'Orsay M., assignor to La Fayette Motors Company, Indianapolis, Ind. Auxiliary air control. No. 1,391,032; Sept. 20; v. 290; p. 450.
- White, D'Orsay M., Indianapolis, Ind., assignor to La Fayette Motors Company. Detachable transmission construction. No. 1,397,304; Nov. 15.
- White, D'Orsay M., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,377,378; May 10; v. 286; p. 248.
- White, D'Orsay M., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,381,150; June 14; v. 287; p. 211.
- White, D'Orsay M., assignor to Cadillac Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,396,904; Nov. 15.
- White, E. H. (See Duhon, Jules, assignor.)
- White, Edward, Philadelphia, Pa. Home, office, and apartment indicator. No. 1,367,790; Feb. 8; v. 283; p. 237.
- White, Edward F., New York, N. Y. Purifying sulfur. No. 1,396,485; Nov. 8.
- White, Edward N., et al., trustees. (See Eidmann, Frank L., assignor.)
- White, Edward N., et al., trustees. (See Hennessy, D. E., and McGeorge, assignors.)
- White, Edward N., et al., trustees. (See Hennessy, Daniel E., assignor.)
- White, Edwin, Baltimore, Md., assignor to Continental Can Company, Inc., Syracuse, N. Y. Sheet-feeding mechanism. No. 1,397,305; Nov. 15.
- White, Edwin S., and A. W. Kelin, Pittsburgh, Pa. Bottle-opener. No. 1,366,045; Jan. 18; v. 282; p. 470.
- White, Ernest C., assignor to Electric Outlet Company, Inc., New York, N. Y. Electrical connecting and supporting device. No. 1,364,335; Jan. 4; v. 282; p. 56.
- White, Ernest C., assignor to Electric Outlet Company, Inc., New York, N. Y. Electrical connecting and supporting device. No. 1,364,419; Jan. 4; v. 282; p. 72.
- White, Ernest C., assignor to Electric Outlet Company, Inc., New York, N. Y. Shade-holder. No. 1,379,066; May 24; v. 286; p. 695.
- White, Ernest C., assignor to Duplexalite Corporation, New York, N. Y. Lighting-fixture. No. 1,396,486; Nov. 8.
- White, Ernest M., Los Angeles, Calif. Carbureter. No. 1,377,535; May 10; v. 286; p. 276.
- White, Ernest M., Los Angeles, Calif., assignor to A. J. Kline and D. L. Keiffer, Milwaukee, Wis. Automobile-lock. No. 1,366,229; Jan. 18; v. 282; p. 506.



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- White, Ernest W., Milford, assignor to M. G. Standley, Cincinnati, Ohio. Dining-table service-indicator. No. 1,383,685; July 5; v. 288; p. 89.
- White, Everett H., St. Paul, Minn. Heat-regulator. No. 1,393,060; Oct. 11.
- White, F. H. Company, The. (See White, Frank H., assignor.)
- White, Fernand G., Meriden, Conn. Producing coal-tar paint. No. 1,396,674; Nov. 8.
- White, Frank A., Cleveland, Ohio. Apparatus for dispensing congealed foods and desserts. No. 1,380,029; May 31; v. 286; p. 951.
- White, Frank H., Gwynedd, assignor to The F. H. White Company, Philadelphia, Pa. Traveling-bag. No. 1,367,574; Feb. 8; v. 283; p. 195.
- White, Frank O., St. Louis, Mo. Ventilated furniture. No. 1,372,057; Mar. 22; v. 284; p. 605.
- White, Frank O., Belleville, Ill. Ventilated upholstered furniture. No. 1,382,702; June 28; v. 287; p. 617.
- White, Franklin R. (See Hart, L. J., and White.)
- White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,378,073; May 17; v. 286; p. 434.
- White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,378,074; May 17; v. 286; p. 434.
- White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,378,075; May 17; v. 286; p. 434.
- White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,378,076; May 17; v. 286; p. 434.
- White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. No. 1,378,077; May 17; v. 286; p. 434.
- White, Fred B., assignor to Central Oil & Gas Stove Company, Gardner, Mass. Oil-stove. No. 1,366,892; Jan. 25; v. 282; p. 682.
- White, Fred B., assignor to Central Oil & Gas Stove Co., Gardner, Mass. Kindler-holder. No. 1,374,619; Apr. 12; v. 285; p. 281.
- White, Fred E., assignor to Central Oil and Gas Stove Company, Gardner, Mass. Oven. No. 1,381,527; June 14; v. 287; p. 280.
- White, Fred G., assignor to Albert Pico, Kansas City, Mo. Manifold attachment for typewriters. No. 1,399,912; Dec. 13.
- White, Fred H., *et al.* (See Stanley, E. S., and Gay, assignors.)
- White, George, assignor to P. Panoulas, Jersey City, N. J. Transfer mechanism. No. 1,378,503; May 17; v. 286; p. 514.
- White, George M. (See Santin, J. J., and White.)
- White, George S., Nashville, Tenn. Automobile-lock. No. 1,387,335; Aug. 9; v. 289; p. 344.
- White, George W., Atlanta, Ga. Retaining device for screws or bolts. No. 1,396,611; Nov. 8.
- White, Gilbert E., Des Moines, Iowa. Fluid-pressure feeding mechanism. No. 1,374,789; Apr. 12; v. 285; p. 314.
- White, Glenn P., Ashtabula Harbor, Ohio. Engine. No. 1,389,466; Aug. 30; v. 289; p. 930.
- White, Harry B., Canton, Ohio, assignor, by mesne assignments, to Auto Specialties Manufacturing Co., San Francisco, Calif. Bow rest and clamping device. No. 1,381,853; June 14; v. 287; p. 342.
- White, Harry M., Philadelphia, Pa. Loom. No. 1,371,062; Mar. 8; v. 284; p. 293.
- White, Harry W., Emporia, Kans. Washing-machine. No. 1,378,925; May 24; v. 286; p. 669.
- White, Helen K., Alameda, Calif. Garment-leg supporter. No. 1,401,220; Dec. 27.
- White, Herbert E., and H. F. Philbin, assignors to The General Fireproofing Company, Youngstown, Ohio. Metal furniture construction. No. 1,374,868; Apr. 12; v. 285; p. 329.
- White, Herbert P., Philadelphia, Pa. Safety-switch. No. 1,375,946; Apr. 26; v. 285; p. 630.
- White, Horace E., Baltimore, Md. Yarn-winding machine. No. 1,373,040; Mar. 29; v. 284; p. 838.
- White, Ira B., Fort Worth, Tex. Grain-bag holder. No. 1,388,823; Aug. 23; v. 289; p. 747.
- White, Isaac, Wilmington, Del. Lock. No. 1,378,504; May 17; v. 286; p. 515.
- White, J. H., Manufacturing Company. (See Kahns, Walter R., assignor.)
- White, James M., Danville, Va. Pocket attachment for vehicles. No. 1,401,660; Dec. 27.
- White, Jesse M., Philadelphia, Pa. Locking device. No. 1,393,867; Oct. 18.
- White, Jesse M., Philadelphia, Pa. Locking device for automobiles. No. 1,394,872; Oct. 25.
- White, Johannah L., Chicago, Ill. Combination chair and cot. No. 1,378,505; May 17; v. 286; p. 515.
- White, John. (See Payne, Henry H., assignor.)
- White, John, Jr. (See Wall, Arthur W., assignor.)
- White, John H., and E. J. Franklin, Hayden, Ariz. Tube-cleaning apparatus. No. 1,389,467; Aug. 30; v. 289; p. 930.
- White, John W., Kansas City, Mo. Paper-holder. No. 1,364,336; Jan. 4; v. 282; p. 56.
- White, John W., Lewistown, Mont. Vehicle-headlight control. No. 1,400,117; Dec. 13.
- White, John W., assignor to William D. Rose, Lewistown, Mont. Wheel-traction device. No. 1,384,546; July 12; v. 288; p. 316.
- White, John W., assignor to General Motors Corporation, Detroit, Mich. Combined wheel-hub and brake-drum. No. 1,387,444; Aug. 9; v. 289; p. 366.
- White, John W., Jr., assignor to General Motors Corporation, Detroit, Mich. Vehicle-brake. No. 1,372,166; Mar. 22; v. 284; p. 626.
- White, Joseph, St. Louis, Mo. Butchering-machine. No. 1,386,824; Aug. 9; v. 289; p. 243.
- White, Joseph, Middlesex, and W. K. Eckhard, Plainfield, N. J. Printing-press. No. 1,364,598; Jan. 4; v. 282; p. 106.
- White, Joseph, Piscataway township, assignor to Hall Printing Press Company, Dunellen, N. J. Sheet registering and gaging mechanism. No. 1,367,110; Feb. 1; v. 283; p. 45.
- White, Joseph, Piscataway township, Middlesex county, assignor of one-half to Hall Printing Press Company, Dunellen, N. J., and one-half to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Sheet-positioning mechanism. No. 1,378,205; May 17; v. 286; p. 458.
- White, Joseph, Middlesex borough, assignor to M. E. White, Middlesex, N. J. Table utensil. No. 1,367,649; Feb. 8; v. 283; p. 209.
- White, Joseph A., Chicago, Ill., assignor to F. S. Webster Company, Boston, Mass. Carbon binder and economizer. No. 1,391,872; Sept. 27; v. 290; p. 694.
- White, Joseph N. (See Churchman, H. W., and White.)
- White, Joseph W., Widnes, England. Lubrication of machinery. No. 1,377,866; May 10; v. 286; p. 341.
- White, Lawrence T. (See Senour, R. R., and White.)
- White, Lewis F., Pond, W. Va. Planter. No. 1,382,945; June 28; v. 287; p. 662.
- White, M., & Son. (See Beattie, John C., assignor.)
- White, Manley A., Beverly, Mass. Diving-bell. No. 1,364,337; Jan. 4; v. 282; p. 56.
- White, Manley A., Beverly, Mass. Portable floating breakwater or bulkhead. No. 1,397,025; Nov. 15.
- White, Mayme, Indianapolis, Ind. Doll-model. No. 1,381,528; June 14; v. 287; p. 280.
- White, Minnie E. (See White, Joseph, assignor.)
- White, Morris C. (See Duryea, O. C., and White.)
- White Motor Company, The. (See Farmer, Frank H., assignor.)
- White, Nelson, Des Moines, Iowa, assignor to Monroe Calculating Machine Company, New York, N. Y. Zero-setting mechanism. No. 1,396,612; Nov. 8.
- White, Noah R., Delta, Colo. Mud-chain. No. 1,390,411; Sept. 13; v. 290; p. 262.
- White, Robert, assignor of one-half to M. B. Tudhope, Orillia, Ontario, Canada. Means for greasing springs. No. 1,378,159; May 17; v. 286; p. 450.
- White, Robert C., Irondale, Ala. Grate shaking and dumping mechanism. No. 1,399,911; Dec. 13.
- White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-laying tractor. No. 1,387,086; Aug. 9; v. 289; p. 296.
- White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-laying tractor. No. 1,399,370; Dec. 6.
- White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Driving and steering mechanism for motor-vehicles. No. 1,401,221; Dec. 27.
- White, Rollin H., and M. B. Morgan, Cleveland Heights, assignors to The Cleveland Tractor Company, Euclid, Ohio. Dustproof bearing. No. 1,38,087; Aug. 9; v. 289; p. 296.
- White, Roy S. (See Penniman, W. R. D., and White.)
- White, S. S., Dental Manufacturing Company. (See Anderson, Carl E., assignor.)
- White, S. S., Dental Manufacturing Company, The. (See Hawksworth, F. G., and Eklof, assignors.)
- White, S. S., Dental Manufacturing Company, The. (See Heck, George D., assignor.)
- White, S. S., Dental Manufacturing Company, The. (See Porter, Will R., assignor.)
- White, S. S., Dental Manufacturing Company, The. (See Yearsley, Eugene W., assignor.)
- White, Theodore H., Los Angeles, Calif. Psychic game. No. 1,370,249; Mar. 1; v. 284; p. 94.
- White, Thomas A., Monroe, La. Mail-crane. No. 1,372,383; Mar. 22; v. 284; p. 668.
- White, Tilman, assignor of one-third to R. Salisbury, one-third to E. F. Beckham, Berkeley, and one-third to P. E. Weithaase, San Francisco, Calif. Pressure cut-off. No. 1,380,030; May 31; v. 286; p. 951.
- White, Vernon A., Chicago, Ill. Food product and manufacture. No. 1,382,038; June 21; v. 287; p. 437.
- White, Wilford L., Boulder, Colo. Game apparatus. No. 1,381,045; June 7; v. 287; p. 139.
- White, Wilfrid O., West Newton, Mass. Pelorus. No. 1,399,330; Dec. 6.
- White, Willard S., Chattanooga, Tenn. Demountable rim for automobile-wheels. No. 1,369,584; Feb. 22; v. 283; p. 671.
- White, William, Niles, Mich., assignor to Harry Vissering & Company, Chicago, Ill. Fire-door for locomotives. No. 1,391,926; Sept. 27; v. 290; p. 705.
- White, William C., Portsmouth, N. H. Egg-shucker. No. 1,397,306; Nov. 15.



- White, William C., Schenectady, N. Y., assignor to General Electric Company. Radioreceiving system. No. 1,365,576; Jan. 11; v. 282; p. 339.
- White, William C., Schenectady, N. Y., assignor to General Electric Company. Means for producing high-frequency oscillations. No. 1,393,594; Oct. 11.
- White, William C., Schenectady, N. Y., assignor to General Electric Company. Resistance-unit terminal. No. 1,394,055; Oct. 18.
- White, William C., Schenectady, N. Y., assignor to General Electric Company. Signaling system. No. 1,394,056; Oct. 18.
- White, William E., Minneapolis, Minn. Joist-bar spacer. No. 1,366,230; Jan. 18; v. 282; p. 506.
- White, William E., Minneapolis, Minn. Bar-spacer. No. 1,369,949; Mar. 1; v. 284; p. 37.
- White, William E., Chicago, Ill. Beam-spacer. No. 1,387,088; Aug. 9; v. 289; p. 296.
- White, William H., Los Angeles, Calif. Mattress. No. 1,379,147; May 24; v. 286; p. 710.
- White, William M., Milwaukee, Wis. Governor. No. 1,369,863; Mar. 1; v. 284; p. 21.
- White, William M., Milwaukee, Wis. Energy-transferring device. No. 1,383,361; July 5; v. 288; p. 21.
- White, William M., Milwaukee, Wis. Electrical boiler. No. 1,399,175; Dec. 6.
- White, William F., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Method and device for controlling preserving apparatus. No. 1,385,599; July 26; v. 288; p. 690.
- White, William R., Bristol, Pa. Safety pneumatic wrench. No. 1,389,468; Aug. 30; v. 289; p. 930.
- White, William R., Loudon, Tenn. Adjustable guide-collar for shaper-machines. No. 1,400,472; Dec. 13.
- Whitehall Petroleum Corporation. (See Weaver, P., and Craig, assignors.)
- Whitehead, Charles H., Kingsville, Ontario, Canada. Hot-water heater. No. 1,370,619; Mar. 8; v. 284; p. 210.
- Whitehead, Charles M., Spokane, Wash. Skid-chain fastener. No. 1,373,281; Mar. 29; v. 284; p. 886.
- Whitehead, George R., New York, N. Y. Diamond-polishing machine. No. 1,374,267; Apr. 12; v. 285; p. 213.
- Whitehead & Hoag Company, The. (See Fehn, Frank J., assignor.)
- Whitehead & Hoag Company, The. (See Knox, Culver B., assignor.)
- Whitehead, Hugh H., assignor of one-half to D. M. Courtney, Palmetto, Fla. Tool. No. 1,366,987; Feb. 1; v. 283; p. 21.
- Whitehead, Linwood M., Norfolk, Va. Tallying-machine. No. 1,391,086; Sept. 20; v. 290; p. 462.
- Whitehead, Oliver W., near Dayton, Ohio. Sash-lifting device for automobiles. No. 1,390,003; Sept. 6; v. 290; p. 89.
- Whitehead, Samuel, Romford, England. Pencil-sharpener. No. 1,395,241; Oct. 25.
- Whitehead, Thomas, Blackpool, England. Apparatus for spinning, doubling, and twisting yarns for threads of fibrous substances. No. 1,389,921; Sept. 6; v. 290; p. 74.
- Whitehead, Thomas, Blackpool, England. Spinning-ring carrier. No. 1,399,418; Dec. 6.
- Whitehead Torpedo Works (Weymouth) Limited, (In Liquidation). (See Sodeau, W. H., and Francombe, assignors.)
- Whitehouse, John N., New York, N. Y. Applicator. No. 1,382,397; June 21; v. 287; p. 504.
- Whitelaw, James, St. Louis, Mo. Sewing-machine. No. 1,365,427; Jan. 11; v. 282; p. 310.
- Whiteman, Allen C., La Crosse, Kans. Lacing device. No. 1,393,188; Oct. 11.
- Whiteman, George W. (See Lundie, J., and Whiteman.)
- Whiteman, George W., Philadelphia, Pa., assignor to The Rail Joint Company, New York, N. Y. Rail-joint for U-rail sections. No. 1,388,134; Aug. 16; v. 289; p. 554.
- Whiteman, George W., Philadelphia, Pa., assignor to The Rail Joint Company, New York, N. Y. Tie-plate mounting for U-rail sections. No. 1,388,135; Aug. 16; v. 289; p. 554.
- Whitener, James O. (See Morgan, H. W., and Whitener.)
- Whitesell, Frederick N., assignor to Fairbanks, Morse & Co., Chicago, Ill. Discharge-gate for storage-receptacles. No. 1,366,334; Jan. 18; v. 282; p. 527.
- Whiteside, Harry, St. Louis, Mo. Fastening attachment for skid-chains. No. 1,369,950; Mar. 1; v. 284; p. 37.
- Whiteside, Norman N., New York, N. Y. Protective covering. No. 1,398,165; Nov. 22.
- Whiteside, William J., Keewatin, Minn. Glass-gage protector. No. 1,382,582; June 21; v. 287; p. 540.
- Whitfield Map Company. (See Bloomfield, Arthur E., assignor.)
- Whitin Machine Works. (See Jeffers, Jesse, assignor.)
- Whiting, Bradford H., Chicago, Ill., assignor to Whiting Corporation, Harvey, Ill. Teapot-spout ladle. No. 1,399,532; Dec. 6.
- Whiting Corporation. (See Townsend, John S., assignor.)
- Whiting Corporation, Harvey, Ill. (See Whiting, Bradford H., assignor.)
- Whiting Machine Works. (See Nelson, Albin W., assignor.)
- Whiting & Davis Company. (See Rowan, Harry B., assignor.)
- Whiting, Donald F., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,378,392; May 17; v. 286; p. 493.
- Whiting, Everett H., Santa Rosa, Calif. Tractor-wheel. No. 1,388,679; Aug. 23; v. 289; p. 718.
- Whiting, Ezra T., Green Lake, Wis. Air-heater. No. 1,385,651; July 26; v. 288; p. 701.
- Whiting Foundry Equipment Company. (See McDougall, Andrew H., assignor.)
- Whiting, Horatio, assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,389,234; Aug. 30; v. 289; p. 884.
- Whiting, John H., Punxsutawney, Pa. Rotary engine or pump. No. 1,368,869; Feb. 15; v. 283; p. 493.
- Whiting-Patterson Company. (See Ball, George, assignor.)
- Whitish, Joseph H., Fennimore, Wis. Storm and sun guard for automobiles. No. 1,401,382; Dec. 27.
- Whitley, Wade H. (See Redmon, Claude F., L. K., C. G., and J. T., assignors.)
- Whitling, James A., Haldton, Okla. Pump. No. 1,391,873; Sept. 27; v. 290; p. 694.
- Whitlock, Lester J., Pomona, Calif. Temperature-moderator for orchards and the like. No. 1,398,927; Nov. 29.
- Whitman, Ray B. (See Cazenove, James O. H., assignor.)
- Whitmer, George, Brea, Calif. Overshot fishing-tool. No. 1,381,529; June 14; v. 287; p. 280.
- Whitmore, Gage, Casper, Wyo. Tank. No. 1,374,790; Apr. 12; v. 285; p. 314.
- Whitmore, Henry G., Newburyport, Mass. Faucet-holder attachment. No. 1,394,383; Oct. 18.
- Whitmore, Horace G., and C. T. Glasser, Minneapolis, Minn. Windshield-shade. No. 1,398,661; Nov. 29.
- Whitmore, Joseph W., and T. J. Whitmore, deceased, by T. B. Whitmore, administrator, Dendron, Va. Portable peanut cleaner and grader. No. 1,380,449; June 7; v. 287; p. 24.
- Whitmore, Thomas B., administrator. (See Whitmore, Joseph W. and T. J.)
- Whitmore, Thomas J. (See Whitmore, Joseph W. and T. J.)
- Whitmore, William A., Nelsonville, Ohio. Water-feed for steam-boilers. No. 1,383,891; July 5; v. 288; p. 131.
- Whitmoyer, Charles R., Muncy, Pa. Removable blade for cutter-bars. No. 1,384,933; July 19; v. 288; p. 477.
- Whitnall, Clarence A., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Equalizer-bar for chain-track tractors. No. 1,395,021; Oct. 25.
- Whitnell, Charles O., Des Moines, Iowa. Stock-waterer. No. 1,368,216; Feb. 8; v. 283; p. 318.
- Whitnell, Charles O., Des Moines, Iowa. Stock-watering tank. No. 1,400,194; Dec. 13.
- Whitney, Baxter D. & Son. (See Farnum, William C., assignor.)
- Whitney, Baxter D., & Son. (See Vinton, John H., assignor.)
- Whitney, Baxter D., & Son. (See Whitney, William M., assignor.)
- Whitney, Charles L., Conneaut, Ohio. Method of and apparatus for treating leather. No. 1,376,233; Apr. 26; v. 285; p. 685.
- Whitney, George E., Bridgeport, Conn. Press. No. 1,394,458; Oct. 18.
- Whitney, George E., Bridgeport, assignor to International Pavement Company, Hartford, Conn. Press. No. 1,371,656; Mar. 15; v. 284; p. 473.
- Whitney, George E., Bridgeport, Conn., assignor to United States Compressing Corporation, New York, N. Y. Press. No. 1,372,791; Mar. 29; v. 284; p. 788.
- Whitney, Henry M. (See Thomson, Elihu, assignor.)
- Whitney, Leon F., Brooklyn, assignor to National Farm Equipment Company, Inc., New York, N. Y. Apparatus for distributing fertilizers, insecticides, and fungicides. No. 1,388,136; Aug. 16; v. 289; p. 554.
- Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Safety-guard and leveling device. No. 1,373,544; Apr. 5; v. 285; p. 32.
- Whitney Manufacturing Company, The. (See Belcher, Warren J., assignor.)
- Whitney, Maurice P., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,392,995; Oct. 11.
- Whitney, Maurice P., assignor to Eclipse Machine Company, Elmira, N. Y. Engine-starter. No. 1,396,695; Nov. 8.
- Whitney Metal Tool Company. (See Jensen, John, assignor.)
- Whitney Mfg. Co., The. (See Müller, Friedrich, assignor.)
- Whitney, Noel C., Terre Haute, Ind. Automatic tile-cutter. No. 1,400,473; Dec. 13.
- Whitney, Robert F., Winchester, Mass. Leather-working machine. No. 1,380,760; June 7; v. 287; p. 83.
- Whitney, Robert H., Jacksonville, Fla. Dilator. No. 1,400,648; Dec. 20.
- Whitney, Rolvin S., Lewiston, Me. Bumper for motor-cars. No. 1,375,244; Apr. 19; v. 285; p. 464.
- Whitney, Samuel, Calgary, Alberta, Canada. Windshield for motorcycles. No. 1,369,585; Feb. 22; v. 283; p. 671.
- Whitney, William A., assignor to Frank V. Bogart and H. A. Merlien, Rockford, Ill. Punch. No. 1,376,492; May 3; v. 286; p. 22.



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- Whitney, William A., Rockford, assignor to T. K. Webster, Evanston, Ill. Universal joint. No. 1,394,701; Oct. 25.
- Whitney, William M., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Drum-saw machine. No. 1,386,082; Aug. 2; v. 289; p. 24.
- Whitney, Willie D. L., Holley, N. Y. Harrow-point. No. 1,400,118; Dec. 13.
- Whitney Yeast Corporation. (See Penniman, William B. D., assignor.)
- Whiton, Louis C., Jr. (See Bredlik, V., and Whiton.)
- Whiton, D. E., Machine Company. (See Whiton, L. E., and Lee, assignors.)
- Whiton, Lucius E., New London, Conn. Protection of ships against torpedo attacks. No. 1,369,586; Feb. 22; v. 283; p. 671.
- Whiton, Lucius E., New London, Conn. Apparatus for protecting ships against torpedo attacks. No. 1,369,587; Feb. 22; v. 283; p. 672.
- Whiton, Lucius E., New London, Conn. Protection of ships against torpedoes. No. 1,369,588; Feb. 22; v. 283; p. 672.
- Whiton, Lucius E., and H. B. Lee, assignors to The D. E. Whiton Machine Co., New London, Conn. Steam-turbine. No. 1,384,286; July 12; v. 288; p. 262.
- Whiton, Lucius E., and H. B. Lee, assignors to The D. E. Whiton Machine Company, New London, Conn. Automatic controlling apparatus for tank-pumps. No. 1,384,287; July 12; v. 288; p. 263.
- Whiton, Robert P., assignor to Hasselbarth-Whiton Co., Inc., Utica, N. Y. Crib. No. 1,387,336; Aug. 9; v. 289; p. 344.
- Whitridge, John C., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car-truck. No. 1,374,620; Apr. 12; v. 285; p. 281.
- Whitright, Samuel L., New Haven, Conn. Fuel-vaporizing heater. No. 1,392,729; Oct. 4.
- Whitt, Joseph E., Italy, Tex. Cotton-tramper. No. 1,387,747; Aug. 16; v. 289; p. 478.
- Whittaker, Charles C. (See Hall, A. J., and Whittaker.)
- Whittaker, Charles C., Pittsburgh, Pa. Control system and apparatus. No. 1,366,141; Jan. 18; v. 282; p. 488.
- Whittaker, Charles C., Pittsburgh, Pa. Heating system. No. 1,366,988; Feb. 1; v. 283; p. 21.
- Whittaker, Charles C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,386,039; Aug. 2; v. 289; p. 16.
- Whittemore Bros. Corp. (See Pessels, Walter C., assignor.)
- Whittemore, James, Detroit, Mich., assignor to The Owens Bottle Company, Toledo, Ohio. Means for conveying glass to molds. No. 1,399,176; Dec. 6.
- Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Motor-car bumper. No. 1,383,892; July 5; v. 288; p. 131.
- Whitten, Mahlon A., Mars Hill, Me. Automobile-truck chain. No. 1,394,384; Oct. 18.
- Whitten, Stahl A. (See Ballman, Edwin C., assignor.)
- Whittier, Frederick G., Ipswich, assignor to The Lamson Company, Boston, Mass. Central-station apparatus for carrier-dispatch systems. No. 1,365,428; Jan. 11; v. 282; p. 310.
- Whittier, Horace R., assignor to Cooper Oven Thermometer Company, Plymouth, Conn. Oven-thermometer. No. 1,380,621; June 7; v. 287; p. 56.
- Whittier, Walter H., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich. Refrigerator-door construction. No. 1,379,067; May 24; v. 286; p. 695.
- Whittingham, George H., Bancroft Park, Md., assignor to Monitor Controller Company of Baltimore. Thermostatic switch. No. 1,380,168; May 31; v. 286; p. 977.
- Whittingham, Richard A., Newark, Del. Steam-boiler. No. 1,368,310; Feb. 15; v. 283; p. 384.
- Whittingham, Richard A., Newark, Del. Housing for truck-driving gears. No. 1,400,119; Dec. 13.
- Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Instrument-mount for automobile instrument-boards. No. 1,371,337; Mar. 15; v. 284; p. 409.
- Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corp., Chicago, Ill. Lamp-supporting device. No. 1,374,268; Apr. 12; v. 285; p. 213.
- Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,379,148; May 24; v. 286; p. 711.
- Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Rear bumper for automobiles. No. 1,379,791; May 31; v. 286; p. 905.
- Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,381,151; June 14; v. 287; p. 211.
- Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vehicle-lamp. No. 1,381,376; June 14; v. 287; p. 252.
- Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,381,377; June 14; v. 287; p. 252.
- Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,387,527; Aug. 16; v. 289; p. 434.
- Whittington, Frederick G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum fuel-feed device. No. 1,391,230; Sept. 20; v. 290; p. 491.
- Whittington, George W., Indianapolis, Ind. Bale-tie machine. No. 1,395,319; Nov. 1.
- Whittington, John A., Atlanta, Ga. Color-printing device. No. 1,378,435; May 17; v. 286; p. 502.
- Whittle, Alexander, Kearney, N. J. Wave-motor. No. 1,385,738; July 26; v. 288; p. 719.
- Whoolery, Andrew B., Spencer, W. Va. Loading means for tank-cars. No. 1,372,466; Mar. 22; v. 284; p. 684.
- Whyte, Frederick M., Tarrytown, N. Y., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,370,571; Mar. 8; v. 284; p. 200.
- Whyte, Frederick M., Tarrytown, N. Y. Car-end construction. No. 1,384,368; July 12; v. 288; p. 279.
- Whyte, Frederick M., Tarrytown, N. Y. Brake-hanger. No. 1,396,945; Nov. 15.
- Whyte, John, Chicago, assignor, by mesne assignments, to The Service Cloth Pleating Company, Evanston, Ill. Pleating-machine. No. 1,399,231; Dec. 6.
- Whyte, Samuel, Redhill, assignor to S. H. Morden & Company Limited, London, England. Protective composition for heat treatment of articles of iron, steel, and the like. No. 1,366,305; Jan. 18; v. 282; p. 521.
- Wiard, Frederick, assignor to American Standard Tool Company, Detroit, Mich. Lock for cutting-tool pilots. No. 1,375,339; Apr. 19; v. 285; p. 482.
- Wiard, Frederick, assignor to American Standard Tool Company, Detroit, Mich. Milling-cutter. No. 1,397,119; Nov. 15.
- Wiberg, Frans M., Falun, Sweden. Method of and furnace for reducing ores and oxygen compounds utilized as ores. No. 1,401,222; Dec. 27.
- Wiberg, Oscar A., Finspong, Sweden. Power-transmission device. No. 1,379,498; May 24; v. 286; p. 776.
- Wiberg, Oscar A., and G. Karlsson, Finspong, Sweden. Regulating mechanism for turbo-mechanical-machine plants. No. 1,387,915; Aug. 16; v. 289; p. 511.
- Wiberg, Oskar A., Finspong, assignor, by mesne assignments, to Aktiebolaget Ljungströms Angturbin, Stockholm, Sweden. Elastic-fluid turbine. No. 1,378,506; May 17; v. 286; p. 515.
- Wiberley, Frank, Jamaica, assignor to Barthels Manufacturing Company, Glendale, N. Y. Wearing-apparel. No. 1,396,799; Nov. 15.
- Wicher, Claude J. (See Meier, G. A., and Wicher.)
- Wichmann, John C., Los Angeles, Calif. Making rubber-like material and resulting product. No. 1,379,149; May 24; v. 286; p. 711.
- Wichmann, John C., assignor of one-half to L. J. Maescher, Los Angeles, Calif. Making rubber-like material. No. 1,379,150; May 24; v. 286; p. 711.
- Wick, Walter W., Sheboygan, Wis. Machine for mechanical washing and sterilizing of the hands. No. 1,366,306; Jan. 18; v. 282; p. 521.
- Wickenden, Leonard, Flushing, assignor to Industrial Chemical Company, New York, N. Y. Acid-resisting paint or varnish composition, &c. No. 1,398,084; Nov. 22.
- Wickenden, Thomas H., South Bend, Ind., assignor to The Studebaker Corporation. Vehicle-spring. No. 1,371,284; Mar. 15; v. 284; p. 399.
- Wicker, Adelbert R., Denver, Colo., assignor, by mesne assignments, to J. Hermann, Cincinnati, Ohio. Lock-controlled fuel-feed for carbureters. No. 1,374,621; Apr. 12; v. 285; p. 282.
- Wicker, Albert G., Cincinnati, Ohio. Spring. No. 1,400,253; Dec. 13.
- Wickersham, Alfred R., Oakland, Calif. Gear-puller. No. 1,394,129; Oct. 18.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Dustproof and adjustable bearing mounting. No. 1,365,429; Jan. 11; v. 282; p. 310.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Yieldable frame suspension. No. 1,365,430; Jan. 11; v. 282; p. 311.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Self-laying-track tractor. No. 1,365,431; Jan. 11; v. 282; p. 311.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor. No. 1,371,716; Mar. 15; v. 284; p. 484.
- Wickersham, Elmer E., Stockton, Calif. Treating liquid fuel. No. 1,376,180; Apr. 26; v. 285; p. 674.
- Wickersham, Elmer E., Sunnyvale, assignor to The Holt Manufacturing Company, Stockton, Calif. Speed-governor. No. 1,381,778; June 14; v. 287; p. 328.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Direction indicator and measuring instrument. No. 1,386,666; Aug. 9; v. 289; p. 210.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Trailer-wagon. No. 1,386,978; Aug. 9; v. 289; p. 274.
- Wickersham, Elmer E., Oakland, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif. Transmission mechanism. No. 1,386,979; Aug. 9; v. 289; p. 274.



- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Automatic fuel feed and mixture control. No. 1,395,022; Oct. 25.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Power-driven steering mechanism for tractors. No. 1,395,023; Oct. 25.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Construction for traction-engines. No. 1,395,024; Oct. 25.
- Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Tractor-frame suspension. No. 1,395,025; Oct. 25.
- Wickersham, Roy D., Perry township, Marion county, Ind. Adjustable handle for percolators. No. 1,389,336; Aug. 30; v. 289; p. 904.
- Wickersham, Theodore, Philadelphia, Pa. Apparatus for preparing textile-treating baths. No. 1,380,282; May 31; v. 286; p. 998.
- Wickey, Luke T. (See Hofer, A. H., and Wickey.)
- Wickley, Edward W. (See Gardiner, William, assignor.)
- Wickoff, J. Lewis, *et al.*, trustees. (See Eidmann, Frank L., assignor.)
- Wicks, Arthur H., Woodstock, Ill. Anode. No. 1,373,693; Apr. 5; v. 285; p. 61.
- Wicks, Ira A., Memphis, Tenn. Automobile-lock. No. 1,370,937; Mar. 8; v. 284; p. 269.
- Wicks, John, assignor to Automatic Electric Company, Chicago, Ill. Measured-service telephone system. No. 1,379,068; May 24; v. 286; p. 695.
- Wicks, John, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,385,347; July 19; v. 288; p. 562.
- Wicks, John V., assignor to Marvel Manufacturing Co., Seattle, Wash. Valve-grinding compound. No. 1,381,953; June 21; v. 287; p. 421.
- Wickstrom, Alfred E., Jamestown, N. Y. Stop for extension-files. No. 1,376,493; May 3; v. 286; p. 22.
- Wickstrom, Alfred E., Jamestown, N. Y. Extension-file. No. 1,376,494; May 3; v. 286; p. 22.
- Wickstrom, Alfred, assignor of one-fourth to F. Bain and one-fourth to J. E. Bain, Minneapolis, Minn. Block-forming machine. No. 1,393,189; Oct. 11.
- Wickstrom, Charles A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Polishing-machine. No. 1,376,663; May 3; v. 286; p. 53.
- Wickwire Spencer Steel Corporation. (See Southwick, William S., assignors.)
- Wideman, Sadie, Niles, Mich. Car-signal. No. 1,387,671; Aug. 16; v. 289; p. 463.
- Widescope Camera Co. (See Bingham, George W., assignor.)
- Widhelm, Margaret V., Fremont, Nebr. Feed-rack. No. 1,390,412; Sept. 13; v. 290; p. 262.
- Widmaier, Adolf, Atlanta, Ga. Combined toothbrush and paste-container. No. 1,385,767; July 26; v. 288; p. 724.
- Widmann, Eugene A., Brooklyn, N. Y. Talking-machine record. No. 1,370,719; Mar. 8; v. 284; p. 229.
- Widmann, Eugene A., Brooklyn, N. Y. Cabinet for tympanum-phonographs. No. 1,386,040; Aug. 2; v. 289; p. 16.
- Widmer, Friedrich, Rorschach, Switzerland. Raising and transporting device. No. 1,371,961; Mar. 15; v. 284; p. 530.
- Widmer, Howard G., Brooklyn, assignor to Arkell Safety Bag Company, New York, N. Y. Delivery mechanism for machines for operating on paper. No. 1,382,583; June 21; v. 287; p. 540.
- Widness, Lawrence J., Brooklyn, N. Y. Toy. No. 1,389,802; Sept. 6; v. 290; p. 48.
- Wiebe, Agnes C., Brooklyn, N. Y. Toy vehicle. No. 1,399,833; Dec. 13.
- Wiecek, John, Revloc, Pa. Curtain and shade holder. No. 1,370,868; Mar. 8; v. 284; p. 257.
- Wiechert, Frank T., Lakewood, assignor of one-half to G. W. Wise, Cleveland, Ohio. Soda-fountain. No. 1,394,130; Oct. 18.
- Wiedenhoef, Arthur E., assignor to E. A. Fleer, Chicago, Ill. Light-fixture. No. 1,399,232; Dec. 6.
- Wiederhold, Henry. (See Hohenstatt, O. R., and Wiederhold.)
- Wiederholdt, Ernest F., St. Louis, Mo. Link chain. No. 1,382,703; June 28; v. 287; p. 617.
- Wiederkehr, Hans, Zurich, assignor to Schweizerische Lokomotiv- & Maschinenfabrik, Winterthur, Switzerland. Reversing-gear for internal-combustion engines. No. 1,394,243; Oct. 18.
- Wiederwax, Robert W., assignor of one-half to C. Geist, Atlantic City, N. J. Heating device for the water-circulation systems of engines of automobiles. No. 1,371,589; Mar. 15; v. 284; p. 460.
- Wiederwax, Robert W., assignor to Geist Manufacturing Company, Atlantic City, N. J. Water-heater. No. 1,391,354; Sept. 20; v. 290; p. 516.
- Wiedner, Charles, Cibolo, Tex. Automatic heat-regulator for incubators. No. 1,373,282; Mar. 29; v. 284; p. 886.
- Wiedoeft, Adolph F., Los Angeles, Calif. Kettledrum. No. 1,391,437; Sept. 20; v. 290; p. 533.
- Wiegand, Edwin L., Pittsburgh, Pa. Emplacing apparatus. No. 1,387,029; Aug. 9; v. 289; p. 284.
- Wiegand, Edwin L., Pittsburgh, Pa. Embedding process. No. 1,398,410; Nov. 29.
- Wiegand, Henry J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Helical-spring belt. No. 1,378,507; May 17; v. 286; p. 515.
- Wiegman, Floyd A., Sioux City, Iowa. Pocket check-projector. No. 1,373,545; Apr. 5; v. 285; p. 32.
- Wieland, Frederick G., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Foot-power sealing-machine. No. 1,367,575; Feb. 8; v. 283; p. 195.
- Wieman, Herman A., Dallas, Tex. Vehicle-body. No. 1,372,854; Mar. 29; v. 284; p. 800.
- Wiemann, Herbert O., Chesterton, Ind. License-indicator. No. 1,378,640; May 17; v. 286; p. 541.
- Wiemer, George C. (See Wagner, C. P., and Wiemer.)
- Wiener, David, New York, N. Y. Doll. No. 1,374,343; Apr. 12; v. 285; p. 227.
- Wiener, David, New York, N. Y. Lingerie-clasp. No. 1,374,971; Apr. 19; v. 285; p. 411.
- Wiener, Joseph, Philadelphia, Pa. Safety-hatpin. No. 1,382,039; June 21; v. 287; p. 437.
- Wiener, Max, New York, N. Y. Vanity-case for handbags. No. 1,368,082; Feb. 8; v. 283; p. 291.
- Wiener, Milton M. (See Benson, M. P., and Wiener.)
- Wienke, Herbert W., Michigan City, Ind. Drawbar-mounting machine. No. 1,378,926; May 24; v. 286; p. 669.
- Wiens, Adolph R., Omaha, Nebr. Brush. No. 1,388,680; Aug. 23; v. 289; p. 719.
- Wier, Harry B., Plainfield, N. J., and W. H. Capen, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone. No. 1,366,617; Jan. 25; v. 282; p. 627.
- Wiernikowski, Ignacy, New York, N. Y., assignor of forty-five per cent. to H. Molenda, Ollie, Mont. Window-lock. No. 1,399,177; Dec. 6.
- Wierusz-Kowalski, Mieczyslaw v., Leipzig, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Systematically sulfuring the juices obtained during the manufacture of sugar. No. 1,399,533; Dec. 6.
- Wierzowski, Frank, Lorain, Ohio. Fire-brick trimming or beveling machine. No. 1,383,686; July 5; v. 288; p. 89.
- Wiese, Edwin C., Milwaukee, Wis. Belt-forming drum. No. 1,394,457; Oct. 18.
- Wiesener, William G., Sydney, New South Wales, Australia. Valve operating and locking device. No. 1,384,369; July 12; v. 288; p. 280.
- Wieser, Karl, Werden, assignor to Fried. Krupp Aktien-gesellschaft, Essen-on-the-Ruhr, Germany. Safety device for fuses for projectiles. No. 1,372,582; Mar. 22; v. 284; p. 706.
- Wiesner, Henry, Chicago, Ill. Internal-combustion engine. No. 1,369,511; Feb. 22; v. 283; p. 656.
- Wiet, Eugene, and F. Chittenden, assignors to National Safety Appliance Company, San Francisco, Calif. Electropneumatic valve. No. 1,392,544; Oct. 4.
- Wiget, Mario, New York, N. Y. Safety-vent. No. 1,394,702; Oct. 25.
- Wiggin, John D., Montclair, assignor to H. B. Wiggin's Sons Company, Bloomfield, N. J. Wall-covering and making same. No. 1,390,413; Sept. 13; v. 290; p. 263.
- Wiggins, Edward J., assignor of one-half to G. A. Pearson, Chicago, Ill. Fluid-controlling apparatus. No. 1,397,190; Nov. 15.
- Wiggins, Frank, Knoxville, Tenn. Matrix and matrix-holder. No. 1,378,748; May 17; v. 286; p. 562.
- Wiggins, George A., Hamilton, Ontario, Canada. Game. No. 1,380,450; June 7; v. 287; p. 24.
- Wiggin's, H. B., Sons Company. (See Wiggin, John D., assignor.)
- Wigington, George P., assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Temporary binder. No. 1,385,163; July 19; v. 288; p. 526.
- Wigington, George P., assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Loose-sheet device. No. 1,395,754; Nov. 1.
- Wight Electric Recorder Company, The. (See Wight, James M., assignor.)
- Wight, James M., Lakewood, assignor to The Wight Electric Recorder Company, Cleveland, Ohio. Recorder. No. 1,364,227; Jan. 4; v. 282; p. 35.
- Wight, James M., Lakewood, assignor, by mesne assignments, to The United Banking & Savings Company, trustee, Cleveland, Ohio. Electrical recording or indicating apparatus for boilers. No. 1,373,474; Apr. 5; v. 285; p. 19.
- Wight, Thomas, Kansas City, Mo. Absorption-tank. No. 1,395,463; Nov. 1.
- Wightman Concrete Products. (See Wightman, S. H., and Long, assignors.)
- Wightman, S. H., Birmingham, Mich., and T. A. Long, Melrose Highlands, Mass., assignors to Wightman Concrete Products, Incorporated, Pittsburgh, Pa. Machine for the manufacture of tile, brick, &c. No. 1,369,864; Mar. 1; v. 284; p. 21.
- Wigington, William L., Floydada, Tex. Trap. No. 1,366,989; Feb. 1; v. 283; p. 21.
- Whig, Garrett P. (See Cunningham, Auren A., assignor.)
- Wikander, Oscar R., Pittsburgh, Pa., assignor to S K F Ball Bearing Company, Hartford, Conn. Flexible bushing. No. 1,384,173; July 12; v. 288; p. 239.
- Wilking, Anders F., Seattle, Wash. Dumping-barge. No. 1,394,594; Oct. 25.
- Wikle, Hugh H., Chicago, Ill. Brush and manufacturing the same. No. 1,375,879; Apr. 26; v. 285; p. 617.



## Alphabetical list of patentees—Continued.

- Wikstrom, Edward, Lowell, Mass. Grass-trimmer. No. 1,375,195; Apr. 19; v. 285; p. 455.
- Wiland, Morris. (See Schenker, I., and Wiland.)
- Wilber, Harry L., assignor of seventy-six one-hundredths to B. C. Williams, Kansas City, Mo. Automobile-foot-board. No. 1,367,221; Feb. 1; v. 283; p. 67.
- Wilbourn, Asa J. (See Bowers, Oscar L., assignor.)
- Wilbur, Dorothy T., St. Paul, Minn. Game. No. 1,371,285; Mar. 15; v. 284; p. 399.
- Wilbur, Frederick H., Binghamton, N. Y., assignor to Reynolds Manufacturing Company, West Toledo, Ohio. Stapling machine for leather loops. No. 1,400,843; Dec. 20.
- Wilbur, George A., Lansing, Mich. Toy pistol. No. 1,395,072; Oct. 25.
- Wilbur, Joseph H., Winthrop, Mass. Twin-spring arch-supporter. No. 1,375,432; Apr. 19; v. 285; p. 500.
- Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,364,969; Jan. 11; v. 282; p. 222.
- Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,380,451; June 7; v. 287; p. 24.
- Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,383,584; July 5; v. 288; p. 67.
- Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,386,748; Aug. 9; v. 289; p. 227.
- Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing system. No. 1,396,800; Nov. 15.
- Wilbur, Ray S., Lyndhurst, N. J., and C. G. Spencer, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,364,909; Jan. 11; v. 282; p. 210.
- Wilbur, Ray S., Lyndhurst, N. J., and W. H. Bendernagel, Brooklyn, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,371,717; Mar. 15; v. 284; p. 484.
- Wilburn, Byard C., Apache, Okla. Flood-gate on streams. No. 1,387,955; Aug. 16; v. 289; p. 519.
- Wilcke, Eugene, Dayton, Ohio. Pipe-collar. No. 1,379,233; May 24; v. 286; p. 727.
- Wilcomb, J. F., Norristown, Pa., assignor, by mesne assignments, to Spartan Needle Company, Providence, R. I. Knitting-needle unit. No. 1,391,033; Sept. 20; v. 290; p. 451.
- Wilcomb, J. Frank, Worcester, Mass., assignor to Spartan Needle Company, Providence, R. I. Knitting instrument. No. 1,398,821; Nov. 29.
- Wilcox, Crittenden and Company. (See Birdsey, Seeley P., assignor.)
- Wilcox, Edson B., Meriden, Conn. Electric-lamp base. No. 1,368,590; Feb. 15; v. 283; p. 439.
- Wilcox, Frederick A., and E. L. McGrory, Chicago, Ill. Coffee-roasting machine. No. 1,377,536; May 10; v. 286; p. 277.
- Wilcox, George. (See Gach, A., and Wilcox.)
- Wilcox & Gibbs Sewing Machine Co. (See Merritt, Arthur A., assignor.)
- Wilcox & Gibbs Sewing Machine Co. (See Osterhout, Garret B., assignor.)
- Wilcox, George, Cincinnati, Ohio. Quick-action tailstock. No. 1,373,158; Mar. 29; v. 284; p. 862.
- Wilcox, Hiram J., Placerville, Calif. Revolving harrow. No. 1,396,905; Nov. 15.
- Wilcox, Howard, Woodstock, N. Y. Motor-vehicle, trailed power. No. 1,387,820; Aug. 16; v. 289; p. 493.
- Wilcox, Howard, Woodstock, N. Y. Motor-vehicle, trailed power. No. 1,401,661; Dec. 27.
- Wilcox, John. (See Lux, G. J., and Wilcox.)
- Wilcox Pressed Steel Company. (See Reeve, Charles D., assignor.)
- Wilcox, Ralph S., Youngstown, Ohio. Vehicle-wheel. No. 1,401,845; Dec. 27.
- Wilcox, Richard J. (See Kaup, H. E., and Wilcox.)
- Wilcox, Russell I., assignor to The Marquette Piano Company, Chicago, Ill. Tune-selector for automatic pianos. No. 1,398,988; Dec. 6.
- Wilcox, Urquhart, Buffalo, N. Y. Kite. No. 1,381,264; June 14; v. 287; p. 231.
- Wilcox, Walter, and C. La Duke, Oconto, Nebr. Rod-puller. No. 1,389,469; Aug. 30; v. 289; p. 930.
- Wilcox, William D., Chicago, Ill. Manufacturing gas. No. 1,372,731; Mar. 29; v. 284; p. 775.
- Wilcox, William D., Chicago, Ill. Apparatus for making gas. No. 1,386,825; Aug. 9; v. 289; p. 243.
- Wild, Alfred, Milwaukee, Wis. Weaving-machine. No. 1,386,826; Aug. 8; v. 289; p. 243.
- Wild, Charles H., Baltimore, Md., assignor to Burt Machine Company, Incorporated. Labeling-machine. No. 1,379,376; May 24; v. 286; p. 754.
- Wild, Wilhelm. (See Gaus, W., and Wild.)
- Wild, William, Blackpool, assignor of one-half to West's Gas Improvement Company, Limited, Manchester, England. Charger for reforters. No. 1,386,919; Aug. 9; v. 289; p. 262.
- Wilde, G. F., Limited. (See Worsley, Ernest, assignor.)
- Wilde, J. G., et al. (See Poole, John H., assignor.)
- Wilde, John A., Indianapolis, Ind. Churning, beating, or mixing apparatus. No. 1,374,701; Apr. 12; v. 285; p. 297.
- Wilde, Noël, Toronto, Ontario, Canada. Perpetual calendar. No. 1,369,865; Mar. 1; v. 284; p. 21.
- Wilde, Poul, Strömme, near Randers, Denmark. Plant for warming and moistening the soil-surface. No. 1,374,416; Apr. 12; v. 285; p. 242.
- Wilder, Charlotte, Boston, Mass. Embroidery-hoop adjuster. No. 1,364,599; Jan. 4; v. 282; p. 106.
- Wilder and Company. (See Munson, Howard B., assignor.)
- Wilder, Frederick J., Boston, Mass. Reinforced suspender-strap. No. 1,364,666; Jan. 4; v. 282; p. 119.
- Wilder, Laurence R. (See Miller, John A., assignor.)
- Wildhaber, Fred, and A. L. Warren, Nowata, Okla. Demountable wheel-rim. No. 1,389,470; Aug. 30; v. 289; p. 931.
- Wildman Mfg. Co. (See Howie, Kenneth, assignor.)
- Wildman Mfg. Co. (See Pigeon, Albert M., assignor.)
- Wildner, Arturo, W. Buenos Aires, Argentina. Sealing device. No. 1,370,250; Mar. 1; v. 284; p. 94.
- Wildrick, Meade, Savannah, Ga. Keyless lock. No. 1,373,283; Mar. 29; v. 284; p. 886.
- Wildrick, Meade, assignor of one-half to O. I. Straub, U. S. Army. Mobile mount for heavy artillery. No. 1,371,962; Mar. 15; v. 284; p. 530.
- Wildrick, Meade, U. S. Army, assignor of one-half to O. I. Straub, Fort Howard, Md. Aerial torpedo or mine. No. 1,398,290; Nov. 29.
- Wildrout, Joel A., Akron, Ohio. Mold construction. No. 1,382,398; June 21; v. 287; p. 505.
- Wile, Solomon, Rochester, N. Y. Slicing-machine. No. 1,393,868; Oct. 18.
- Wiles, Russell, Riverside, Ill. Camper's bed. No. 1,401,846; Dec. 27.
- Wiley, Arthur B., Sweetwater, Okla. Camper's cooker. No. 1,396,613; Nov. 8.
- Wiley, George H. (See Teale, Oscar S., assignor.)
- Wilhelm, John, St. Louis, Mo. Safety-guard for automobiles. No. 1,378,988; May 24; v. 286; p. 680.
- Wilhelm, John H., New York, N. Y. Safety-holder for milk-bottles and the like. No. 1,392,809; Oct. 4.
- Wilhelm, Julius, St. Louis, Mo. Gasolene-gage. No. 1,391,813; Sept. 27; v. 290; p. 681.
- Wilhelm, Louis, New Haven, Conn. Lens-edge-grinding machine. No. 1,367,933; Feb. 8; v. 283; p. 263.
- Wilhelm, Russell H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pinning-out machine for drill-steels. No. 1,370,251; Mar. 1; v. 284; p. 94.
- Wilhelm, Russell H., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Tool-retainer for hammer-drills. No. 1,375,433; Apr. 19; v. 285; p. 500.
- Wilhelm, Niels C. L. (See Eggar, L. E., and Wilhelm.)
- Wilhoit, Walter W., Louisville, Ky. Trap. No. 1,375,196; Apr. 19; v. 285; p. 455.
- Wilinski, Stanislaw, Bay City, Mich. Aperture-cleaning syringe. No. 1,399,834; Dec. 13.
- Wilke, Arthur, Brooklyn, N. Y. Skirt-clasp. No. 1,401,453; Dec. 27.
- Wilke, Louis. (See Hanotte, Honore, assignor.)
- Wilkins, Hans O. F., Waterloo, Iowa. Roof-truss. No. 1,367,510; Feb. 1; v. 283; p. 125.
- Wilkinson, Ed, et al. (See Cleveland, David P., assignor.)
- Wilkes, Alfred L., Los Angeles, Calif. Electric-furnace control. No. 1,377,951; May 10; v. 286; p. 358.
- Wilkes, Alfred L., Los Angeles, Calif. Heat control for electric furnaces. No. 1,377,952; May 10; v. 286; p. 358.
- Wilkie, Edwin J., P. S. Stevens, and W. Lehman, assignors to Bucyrus Company, South Milwaukee, Wis. Dipper-tripping mechanism. No. 1,376,181; Apr. 26; v. 285; p. 674.
- Wilkie, J. B. (See Lillie, John A., assignor.)
- Wilkie, Robert J., Newton, assignor to Stowe & Woodward Company, Newton Upper Falls, Mass. Bowling-pin. No. 1,393,655; Oct. 11.
- Wilkin, George W., Grangeville, Idaho. Auxiliary balloon and inflating-tank therefor. No. 1,372,260; Mar. 22; v. 284; p. 645.
- Wilkin, James S., Hillsboro, Ohio. Wave-motor. No. 1,369,593; Feb. 22; v. 283; p. 678.
- Wilkin, Joseph A., Matamoras, Pa. Variable-speed-transmission apparatus. No. 1,386,388; Aug. 2; v. 289; p. 83.
- Wilkins, Arthur J., Bristow, Va. Rail-joint. No. 1,391,438; Sept. 20; v. 290; p. 533.
- Wilkins, Frank J., Cincinnati, Ohio. Flexible bound book. No. 1,380,694; June 7; v. 287; p. 70.
- Wilkins, George H., Greenfield, Mass. Hacksaw-frame. No. 1,382,448; June 21; v. 287; p. 514.
- Wilkins, George W., Glendale, Calif. Vehicle-body. No. 1,381,378; June 14; v. 287; p. 352.
- Wilkins, Thomas M., East Randolph, N. Y., assignor of one-half to J. W. Storke, Erie, Pa. System for regulating mechanical stokers for steam-generators. No. 1,395,377; Nov. 1.
- Wilkins, Walter S., Wednesbury, England. Lifting-jack. No. 1,379,736; May 31; v. 286; p. 895.
- Wilkinson, David A., Overland Park, Mo. Vise. No. 1,387,821; Aug. 16; v. 289; p. 493.



*Alphabetical list of patentees—Continued.*

- Wilkinson, Eltoft W., San Francisco, Calif., assignor to Minerals Separation North American Corporation, New York, N. Y. Ore concentration. No. 1,398,989; Dec. 6.
- Wilkinson, Eltoft W., San Francisco, Calif., assignor to Minerals Separation North American Corporation, New York, N. Y. Ore concentration. No. 1,398,990; Dec. 6.
- Wilkinson, Frederick A. (See Julius, G. A., and Wilkinson.)
- Wilkinson, George, New York, N. Y. Diary. No. 1,368,672; Feb. 15; v. 283; p. 455.
- Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Apparatus for testing gear-wheels. No. 1,374,698; Apr. 12; v. 285; p. 296.
- Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Shaft-packing. No. 1,394,959; Oct. 25.
- Wilkinson, James, Schenectady, N. Y., assignor to General Electric Company. Gearing. No. 1,401,662; Dec. 27.
- Wilkinson, John, assignor to H. H. Franklin Manufacturing Company, Syracuse, N. Y. Internal-combustion engine. No. 1,371,405; Mar. 15; v. 284; p. 424.
- Wilkinson, Paul H., San Bernardino, Calif. Tread-roller. No. 1,400,474; Dec. 13.
- Wilkinson, Theodore S., Washington, D. C. Projectile. No. 1,371,207; Mar. 8; v. 284; p. 321.
- Wilkinson, Walter, Jersey City, N. J., assignor to Air Reduction Company, Inc. Method of and apparatus for drying compressed gases. No. 1,376,985; May 3; v. 286; p. 115.
- Wilkinson, William J. (See Beets, Nicolaas, assignor.)
- Will, Anton, Chicago, Ill. Combined phonograph-cabinet and table. No. 1,399,097; Dec. 6.
- Will-Burt Company, The. (See Baer, Edward G., assignor.)
- Will, G. A. (See McCoy, Marion M., assignor.)
- Will, Louis E. H., et al. (See Schuster, Carl J., assignor.)
- Willard, Charles F., New York, assignor, by mesne assignments to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y. Fuselage construction. No. 1,394,459; Oct. 18.
- Willard, Charles F., New York, assignor to L-W-F Engineering Company, Inc., College Point, Long Island, N. Y. Aeroplane construction. No. 1,394,469; Oct. 18.
- Willard, Louie E., Chula, Ark. Controlling mechanism. No. 1,392,378; Oct. 4.
- Willard, Paul F., Wilkesburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for the control of railway switches and signals. No. 1,380,452; June 7; v. 287; p. 24.
- Willard Storage Battery Company. (See Cook, Thomas R., assignor.)
- Willard Storage Battery Company. (See Hubbell, Harry C., assignor.)
- Willard Storage Battery Company. (See Norris, Paul E., assignor.)
- Willard Storage Battery Company. (See Willard, Theodore A., assignor.)
- Willard, Theodore A., Cleveland, Ohio. Forming storage-battery separators. No. 1,375,763; Apr. 26; v. 285; p. 594.
- Willard, Theodore A., assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery. No. 1,377,995; May 10; v. 286; p. 366.
- Willard, Theodore A., Cleveland Heights, assignor to Willard Storage Battery Company, Cleveland, Ohio. Apparatus for sealing storage-battery jars. No. 1,391,149; Sept. 20; v. 290; p. 474.
- Willard, Walter C., Gates Mills, Ohio. Spring-retainer for puppet-valves. No. 1,390,661; Sept. 13; v. 290; p. 314.
- Willat, Arnold F., San Rafael, Calif. Phonograph-needle. No. 1,380,089; May 31; v. 286; p. 962.
- Willcox, Frederick H., assignor to Freyn, Brassett & Company, Chicago, Ill. Chimney for hot-blast stoves. No. 1,387,528; Aug. 16; v. 289; p. 434.
- Wille, Walter O., Waterloo, Iowa. Tool-holder. No. 1,387,672; Aug. 16; v. 289; p. 463.
- Willemin, Edward A., Providence, R. I. Folding knife-fork-and-spoon set. No. 1,372,325; Mar. 22; v. 284; p. 657.
- Willems, George H., Roanoke, Ill. Automatic motor-vehicle jack device. No. 1,395,543; Nov. 1.
- Willems, Henry J., Kenosha, Wis. Folding-chair. No. 1,399,835; Dec. 13.
- Willemstyn, Henry, Rochester, N. Y. Steam-trap. No. 1,384,715; July 12; v. 288; p. 352.
- Willet, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Arch and arch-brick. No. 1,394,873; Oct. 25.
- Willet, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Perforated arch and brick therefor. No. 1,395,542; Nov. 1.
- Willet, Alfred H., West New York, N. J., assignor to American Arch Company, New York, N. Y. Arch brick. No. 1,401,022; Dec. 20.
- Willet, Benedict E., near Dayton, Ohio. Tank-truck. No. 1,389,724; Sept. 6; v. 290; p. 33.
- Willet, Elsie, Alberton, Mont. Hand-grasp. No. 1,376,126; Apr. 26; v. 285; p. 665.
- Willet, Guy L., Louisville, Ky. Talking-machine. No. 1,388,626; Aug. 23; v. 289; p. 708.
- Willet, Hazen F., assignor of one-half to J. R. Forman, Seattle, Wash. Chain-hoist. No. 1,385,600; July 26; v. 288; p. 690.
- Willetts, Paul G., Fairmont, W. Va. Refractory insulation. No. 1,374,538; Apr. 12; v. 285; p. 265.
- Wiley, Charles E., Louisville, Ky. Electric-generator brush-holder. No. 1,392,996; Oct. 11.
- Wiley, Charles S., Washington, Ind. Lubricant. No. 1,395,073; Oct. 25.
- Wiley, Frank E., Claremont, N. H., assignor to Sullivan Machinery Company. Electric fuse. No. 1,393,281; Oct. 11.
- Wiley, Isaac F., Philadelphia, Pa. Ironing-machine. No. 1,391,521; Sept. 20; v. 290; p. 550.
- Wiley, Martin T., Lead, S. D. Valve-stem attachment. No. 1,388,137; Aug. 16; v. 289; p. 554.
- Willford, Joseph L., Minneapolis, Minn. Percentage feeders. No. 1,364,168; Jan. 4; v. 282; p. 24.
- Willgrubs, Leonard G., Sparta, Wis. Bean-thresher. No. 1,377,041; May 3; v. 286; p. 126.
- William Garrigue & Company. (See Bodman, John W., assignor.)
- William Gent Vending Machine Company, The. (See Larsen, Arnold, assignor.)
- William Hood Dunwoody Industrial Institute, The. (See Davis, William R., assignor.)
- Williams, Albert R., assignor to The Ironton Engine Company, Ironton, Ohio. Controller lock-lever. No. 1,385,935; July 26; v. 288; p. 757.
- Williams, Alfred O., South Bend, Ind., assignor to Clark Equipment Company, Buchanan, Mich. Differential gearing for motor-vehicles. No. 1,365,756; Jan. 18; v. 282; p. 414.
- Williams, Alfred O., South Bend, Ind., assignor to Clark Equipment Company, Buchanan, Mich. Differential gearing. No. 1,397,066; Nov. 15.
- Williams, Allen A., assignor to Williams Soft Pedal Company, Cedar Rapids, Iowa. Pedal for operating accelerators of automobiles. No. 1,395,781; Nov. 1.
- Williams, Alvin H., Plant City, Fla. Machine for shredding bamboo and the like. No. 1,376,789; May 3; v. 286; p. 77.
- Williams, Anthony F. (See Lyon, E., and Williams.)
- Williams, Arthur, assignor to Wilmarth & Morman Company, Grand Rapids, Mich. Drill-holder. No. 1,391,034; Sept. 20; v. 290; p. 451.
- Williams, Arthur H., Minneapolis, Minn. Pneumatic-electric switch for musical instruments and the like. No. 1,388,989; Aug. 30; v. 289; p. 835.
- Williams, Arthur L., assignor to The Waterbury Brass Goods Corporation, Waterbury, Conn. Carrier. No. 1,376,370; Apr. 26; v. 285; p. 711.
- Williams, Benjamin S., Nashville, Tenn. Gage. No. 1,377,238; May 10; v. 286; p. 220.
- Williams, Benjamin S., Nashville, Tenn. Float-controlled engine shut-off. No. 1,401,383; Dec. 27.
- Williams, Bert C. (See Wilber, Harry L., assignor.)
- Williams, Bert C., Kansas City, Mo. Footboard. No. 1,373,284; Mar. 29; v. 284; p. 887.
- Williams, Brice, Kokomo, Ind. Vending-machine. No. 1,398,351; Nov. 29.
- Williams, C. C., acting chief of ordnance, trustee. (See Bump, Nelson P., assignor.)
- Williams, C. C., trustee, Acting Chief of Ordnance. (See Crowe, Joseph N., assignor.)
- Williams, Calvin C. (See Williams, John, C. C., and H.)
- Williams, Calvin C., Philadelphia, Pa. Child's vehicle. No. 1,386,827; Aug. 9; v. 289; p. 243.
- Williams, Charles A., Torquay, assignor to Clark Son & Morland, Ltd., Glastonbury, England. Leather-working machine. No. 1,382,584; June 21; v. 287; p. 540.
- Williams, Charles D., New York, N. Y., assignor to Adams-Williams Manufacturing Corporation. Convertible vehicle-body. No. 1,377,164; May 3; v. 286; p. 149.
- Williams, Charles D., New York, N. Y., assignor to Adams-Williams Manufacturing Corporation. Convertible automobile-body construction. No. 1,377,165; May 3; v. 286; p. 149.
- Williams, Charles D., New York, N. Y., assignor to Adams-Williams Manufacturing Corporation. Convertible automobile-body construction. No. 1,377,166; May 3; v. 286; p. 150.
- Williams, Charles F. and I. C., De Long, Ind., assignors to National Carbon Company, Inc. Separator for storage batteries. No. 1,396,390; Nov. 8.
- Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Third and fourth point support for brake-beams. No. 1,369,866; Mar. 1; v. 284; p. 22.
- Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam support. No. 1,369,867; Mar. 1; v. 284; p. 22.
- Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable support for brake-beams. No. 1,381,379; June 14; v. 287; p. 253.
- Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Adjustable third or fourth point support for brake-beams. No. 1,381,380; June 14; v. 287; p. 253.
- Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam release and support. No. 1,387,956; Aug. 16; v. 289; p. 519.



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- Williams, Charles J., Thermopolis, Wyo. Chain-fastener. No. 1,397,568; Nov. 22.
- Williams, Charles O., Vallejo, Calif. Hair-cutting gage. No. 1,381,381; June 14; v. 287; p. 253.
- Williams, Charles W., East Cleveland, Ohio. Pamphlet and making same. No. 1,366,990; Feb. 1; v. 283; p. 21.
- Williams, Chester L., et al. (See Davis, J. W., and Osborne, assignors.)
- Williams, Clarence C., Acting Chief of Ordnance, trustee. (See Sutton, Francis A., assignor.)
- Williams, Clarence D., Mountain Park, Okla. Headlight for vehicles. No. 1,374,344; Apr. 12; v. 285; p. 227.
- Williams, David. (See Blaney, T., and Williams.)
- Williams, David C., Arlington, Mass., assignor to R. A. Balou, Brookline, Mass. Motor-vehicle steering-gear. No. 1,366,991; Feb. 1; v. 283; p. 21.
- Williams Devices Company. (See Williams, John, assignor.)
- Williams, Clarence C., Acting Chief of Ordnance, U. S. Army, trustee. (See Sutton, Francis A., assignor.)
- Williams, Dyle E., Kansas City, Mo. Funnel attachment for auto-radiators. No. 1,365,362; Jan. 11; v. 282; p. 297.
- Williams, Edward H. (See Roeling, H. W. Williams, and Bauer.)
- Williams, Edward H., New Orleans, La. Micrometer-gage. No. 1,396,614; Nov. 8.
- Williams, Edward H., South Bend, assignor to Perkins Corporation, Mishawaka, Ind. Stock-watering tank. No. 1,391,150; Sept. 20; v. 290; p. 475.
- Williams, Edward R., Sharpsburg, Pa. Dispensing device. No. 1,392,379; Oct. 4.
- Williams, Edward T., Brooklyn, N. Y., assignor to Simplex Refrigerating Corporation. Refrigerating-machine. No. 1,392,997; Oct. 11.
- Williams, Emory O., Red Oak, Ga. Feed-cutter. No. 1,395,622; Nov. 1.
- Williams Foundry and Machine Co., The. (See Arthur, James W., assignor.)
- Williams Foundry & Machine Co., The. (See Flynn, John, assignor.)
- Williams, Francis, Adelaide, South Australia, Australia. Rack-evaporator. No. 1,388,152; Aug. 16; v. 289; p. 557.
- Williams, Francis, Adelaide, South Australia, Australia. Heating device for evaporators, particularly evaporators for drying fruit. No. 1,388,153; Aug. 16; v. 289; p. 557.
- Williams, Frank, assignor of one-fourth to F. Lutgers and one-half to L. Burns, St. Louis, Mo. Nail-puller. No. 1,368,311; Feb. 15; v. 283; p. 383.
- Williams, Frank C., Montello, Nev. Sectional tool. No. 1,380,090; May 31; v. 286; p. 962.
- Williams, Frank C., Philadelphia, Pa., assignor to The Safety Block Signal Company. Train signaling and stopping mechanism. No. 1,383,362; July 5; v. 288; p. 21.
- Williams, Frank C., Philadelphia, Pa., assignor to The Safety Block Signal Company. Train-controlling device. No. 1,385,059; July 19; v. 288; p. 504.
- Williams, Frank C., Philadelphia, Pa., assignor to The Safety Block Signal Company. Automatic train-speed-controlling mechanism. No. 1,385,060; July 19; v. 288; p. 504.
- Williams, Frank E., Alhambra, Calif. Shade-roller. No. 1,373,641; Apr. 5; v. 285; p. 50.
- Williams, Frank E., and O. S. Barnum, Alhambra, Calif. Necktie clasp. No. 1,399,233; Dec. 6.
- Williams, Frank H., Buffalo, N. Y. Grab-bucket. No. 1,376,847; May 3; v. 286; p. 89.
- Williams, Frank H., Buffalo, N. Y. Crane-hook grab-bucket. No. 1,400,922; Dec. 20.
- Williams, Frank P., Detroit, Mich. Cigar and cigarette holder. No. 1,395,320; Nov. 1.
- Williams, Frank P., Detroit, Mich. Attachment for faucets. No. 1,395,321; Nov. 1.
- Williams, Frank P., and A. McIntyre, Detroit, Mich. Metal desk. No. 1,397,827; Nov. 22.
- Williams, Frank P., assignor of one-quarter to A. Beauvais, Detroit, Mich. Drinking-fountain attachment for bibbs or faucets. No. 1,372,213; Mar. 22; v. 284; p. 635.
- Williams, Frank P., assignor to E. E. Gudka Mfg. Co., Detroit, Mich. Metal desk. No. 1,392,998; Oct. 11.
- Williams, Frank P., assignor to E. E. Gudka Mfg. Co., Detroit, Mich. Faucet attachment. No. 1,395,322; Nov. 1.
- Williams, Frederic S., Chicago, Ill., J. G. B. Perkins and J. B. Stryker, Lansdale, Pa., assignors to Perkins Glue Company. Vegetable glue and making the same. No. 1,378,078; May 17; v. 286; p. 434.
- Williams, Frederick W. R., London, England. Apparatus for use in the manufacture of superphosphate. No. 1,398,350; Nov. 29.
- Williams, French B., Dallas, Tex. Cotton-packer. No. 1,392,097; Sept. 27; v. 290; p. 740.
- Williams, Gabriel C., Brookhaven, Miss. Backband-hook. No. 1,365,432; Jan. 11; v. 282; p. 311.
- Williams, Geoffrey W., Burgess Hill, England. Phonograph-record cabinet. No. 1,389,610; Sept. 6; v. 290; p. 10.
- Williams, George C. F., Hartford, Conn. Nail-string machine. No. 1,397,191; Nov. 15.
- Williams, George G., Dallas, Tex. Blow-out boot. No. 1,396,487; Nov. 8.
- Williams, George J., Camden, N. J., assignor of one-half to W. T. Vaughan, Philadelphia, Pa. Talking-machine-record-dispensing apparatus. No. 1,385,652; July 26; v. 288; p. 701.
- Williams, George M., Pittsburgh, Pa. Filling device. No. 1,364,667; Jan. 4; v. 282; p. 119.
- Williams, Glen L., New York, N. Y., assignor, by mesne assignments, to H. W. Campbell, Detroit, Mich. Making ammonia from compound nitrides. No. 1,379,668; May 31; v. 286; p. 883.
- Williams, H. D. (See Kuffel, David C., assignor.)
- Williams, Harold E. (See McCutchen, B. S., and Williams.)
- Williams, Harold E., Carthage, Mo. Tag-holder. No. 1,392,999; Oct. 11.
- Williams, Harry, New York, N. Y. Cigarette maker and filler. No. 1,371,135; Mar. 8; v. 284; p. 307.
- Williams, Harry, Return, Va. Tide-motor. No. 1,393,472; Oct. 11.
- Williams, Harry M., assignor of one-half to J. E. Coates, Little Rock, Ark. Signaling device. No. 1,376,127; Apr. 26; v. 285; p. 665.
- Williams, Harry S., La Mesa, assignor of one-half to O. A. Keller, San Diego, Calif., and one-fourth to E. O. Kottmann, Mason, Tex. Non-skid device. No. 1,379,151; May 24; v. 286; p. 711.
- Williams, Harry S., assignor of one-half to O. Keller, San Antonio, Tex. Pneumatic tire. No. 1,379,887; May 31; v. 286; p. 924.
- Williams, Harry S., assignor of one-half to O. Keller, San Antonio, Tex. Sectional rim. No. 1,379,888; May 31; v. 286; p. 924.
- Williams, Harry W., assignor to The Superior Tool Company, Dayton, Ohio. Dispensing-machine. No. 1,375,947; Apr. 26; v. 285; p. 530.
- Williams, Haydn O., Sperling, and W. J. Miller, Vancouver, British Columbia, Canada. Logging-car. No. 1,387,822; Aug. 16; v. 289; p. 494.
- Williams, Henry. (See Williams, John, C. C., and H.)
- Williams, Henry C., Ravine, Miss. Cultivator. No. 1,401,297; Dec. 27.
- Williams, Herbert H., Brooklyn, N. Y. Refillable lubricating-cup. No. 1,389,405; Aug. 30; v. 289; p. 918.
- Williams, Horace S., Brooklyn, N. Y. Knife for cutters. No. 1,377,042; May 3; v. 286; p. 126.
- Williams, Howard E., Los Angeles, Calif. Planting seed and an agricultural implement for performing the same. No. 1,371,012; Mar. 8; v. 284; p. 284.
- Williams, Howard H. (See Zenner, P. M., and Williams.)
- Williams, Ira C. (See Williams, Charles F. and I. C.)
- Williams, J. B. (See Ballenger, Daniel, assignor.)
- Williams, J. K. (See Schnitzer, Rudolph I., assignor.)
- Williams, James E., Philadelphia, Pa. Towel-rack. No. 1,367,290; Feb. 1; v. 283; p. 81.
- Williams, James E., Chicago, Ill., assignor to Eastman Machine Company, Buffalo, N. Y. Cloth-cutting machine. No. 1,375,989; Apr. 26; v. 285; p. 638.
- Williams, James L., Pemberville, Ohio. Cotter-pin extractor. No. 1,389,406; Aug. 30; v. 289; p. 918.
- Williams, James L., New York, N. Y., assignor to The Dentists' Supply Company. Crown-tooth. No. 1,397,067; Nov. 15.
- Williams, James L., New York, N. Y., assignor to The Dentists' Supply Company. Denture and tooth therefor. No. 1,397,192; Nov. 15.
- Williams, James P., Milton, Pa. Building-brick. No. 1,385,961; July 26; v. 288; p. 762.
- Williams, James R., Blair Station, Pa. Life-saving belt. No. 1,368,529; Feb. 15; v. 283; p. 428.
- Williams, John, Clinton, Iowa, assignor to Williams Devices Company, Wilmington, Del. Pipe-coupling. No. 1,401,847; Dec. 27.
- Williams, John, C. C., and H., Philadelphia, Pa. Brake-actuating mechanism for automobiles. No. 1,396,488; Nov. 8.
- Williams, John M., Guthrie, Okla. Electrolytic cell. No. 1,376,495; May 3; v. 286; p. 22.
- Williams, John R., Rochdale, England. Cam for ring spinning and doubling frames and the like. No. 1,366,442; Jan. 25; v. 282; p. 592.
- Williams, Joseph A., Cleveland, Ohio. Magneto. No. 1,401,571; Dec. 27.
- Williams, Joseph H., North Kansas City, Mo. Feed-grinding machine. No. 1,374,699; Apr. 12; v. 285; p. 297.
- Williams, Joseph J., Cleveland, Ohio. Toy steamer. No. 1,370,572; Mar. 8; v. 284; p. 200.
- Williams, Joseph S., Riverton, N. J. Resilient tire. No. 1,382,399; June 21; v. 287; p. 505.
- Williams, Joseph S., Riverton, N. J. Resilient annular body. No. 1,391,151; Sept. 20; v. 290; p. 475.
- Williams, Joseph S., Riverton, N. J. Demountable-wheel equipment. No. 1,394,658; Oct. 25.
- Williams, Joseph T. C., Abex, Ky. Aerial apparatus. No. 1,396,489; Nov. 8.
- Williams, Joseph W., Clabon, N. D. Dumping device. No. 1,371,963; Mar. 15; v. 284; p. 531.
- Williams, Josiah H., Baltimore, Md. Inhalation device. No. 1,387,030; Aug. 9; v. 289; p. 284.
- Williams, Lewis A. (See McHugh, T. J., and Williams.)
- Williams, Lewis W., Chandler, Okla. Colt's muzzle. No. 1,401,848; Dec. 27.



- Williams, Llewellyn, Hollis, N. Y., assignor to York Manufacturing Company, York, Pa. Fluid-compressor. No. 1,382,334; June 21; v. 287; p. 492.
- Williams, Louis E., Sr., and F. A. Adamski, Fremont, Ohio, assignors, by mesne assignments, to National Carbon Company, Inc. Apparatus for pasting dry-cell linings. No. 1,366,046; Jan. 18; v. 282; p. 470.
- Williams, Louis N. D., Ogontz, Pa. Web-turning device for knitting-machines. No. 1,377,239; May 10; v. 286; p. 220.
- Williams, Louis N. D., Ogontz, Pa. Stitch-doubling device and points therefor. No. 1,388,227; Aug. 23; v. 289; p. 629.
- Williams, Luke P. V., Whiteland, Ind. Signal device for railway-crossings. No. 1,394,335; Oct. 18.
- Williams, Lynn A., *et al.*, trustees. (See Bracke, Robert F., assignor.)
- Williams, Lynn A., *et al.*, trustees. (See Chandler, Milford G., assignor.)
- Williams, Lynn A., *et al.*, trustees. (See Stephenson, Leigh J., assignor.)
- Williams, Lyons H., Norfolk Va. Changeable illuminated display device. No. 1,385,236; July 19; v. 288; p. 540.
- Williams, Martin F., Brooklyn, N. Y. Doubletree. No. 1,388,228; Aug. 23; v. 289; p. 629.
- Williams, Milton F. (See Plaisted, Harold M., assignor.)
- Williams, Milton F., assignor to Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Stirrup-hammer. No. 1,396,983; Nov. 15.
- Williams, Milton F., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Crusher and pulverizer. No. 1,397,828; Nov. 22.
- Williams, Nolan S., El Paso, Tex. Piston-packing. No. 1,392,035; Sept. 27; v. 290; p. 728.
- Williams, Nora, Spokane, Wash. Mixer. No. 1,391,439; Sept. 20; v. 290; p. 533.
- Williams, Ogden A., and G. A. Sharpe, Ashland, Ala., said Sharpe assignor of his entire right to E. Taylor, Phenixville, Pa. Rotary internal-combustion engine. No. 1,369,070; Feb. 22; v. 283; p. 571.
- Williams, Oliver J., Burlingame, Calif., assignor to Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Slicing-machine. No. 1,377,649; May 10; v. 286; p. 298.
- Williams, Oscar C., Indianapolis, Ind. Safety-razor. No. 1,376,182; Apr. 26; v. 285; p. 674.
- Williams, Owen J., Orchard Park, N. Y. Socket-wrench. No. 1,390,738; Sept. 13; v. 290; p. 328.
- Williams Patent Crusher and Pulverizer Company. (See Cornwall, Frederick R., assignor.)
- Williams Patent Crusher & Pulverizer Co. (See Dean, Merrell A., assignor.)
- Williams Patent Crusher and Pulverizer Company. (See Plaisted, Harold M., assignor.)
- Williams Patent Crusher and Pulverizer Company. (See Williams, Milton F., assignor.)
- Williams Patent Crusher & Pulverizer Co. (See Williams, Oliver J., assignor.)
- Williams, Paul F., Chicago, Ill. Filing-cabinet or the like. No. 1,396,490; Nov. 8.
- Williams, Paul F., assignor to G & W Electric Specialty Co., Chicago, Ill. Switching-box. No. 1,401,021; Dec. 20.
- Williams, Peyton W., Montgomery, Ala. Appliance for fireplaces. No. 1,377,108; May 3; v. 286; p. 139.
- Williams, Ray W. (See Simpson, G. N., and Williams.)
- Williams, Reginald V., Buffalo, N. Y. Bender for bars, rods, and wires. No. 1,385,481; July 26; v. 288; p. 666.
- Williams, Reuben H. (See Wright, Kenneth, assignor.)
- Williams, Robert A., Llanwnda, near Carnarvon, Wales. Ignition device for internal-combustion engines. No. 1,369,594; Feb. 22; v. 283; p. 673.
- Williams, Robert L., Newton, Mass., assignor to Submarine Signal Company, Portland, Me. Device for estimating distances. No. 1,396,491; Nov. 8.
- Williams, Robert R. (See Mann, M. D. Jr., and Williams.)
- Williams, Roland G., Bridgeport, Conn. Pole-mounting. No. 1,392,730; Oct. 4.
- Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,380,857; June 7; v. 287; p. 102.
- Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,381,530; June 14; v. 287; p. 281.
- Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Call-distributing system. No. 1,386,749; Aug. 9; v. 289; p. 227.
- Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Call-distributing system. No. 1,393,727; Oct. 11.
- Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,393,728; Oct. 11.
- Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,400,120; Dec. 13.
- Williams, Samuel O., Northumberland, England. Road-wheel for vehicles. No. 1,392,545; Oct. 4.
- Williams Soft Pedal Company. (See Williams, Allen A., assignor.)
- Williams, Thomas F., D. W. Coy, and H. B. Pruden, assignors to Powdered Coal Engineering and Equipment Company, Chicago, Ill. Apparatus for carbureting air with solid fuel. No. 1,385,512; July 26; v. 288; p. 651.
- Williams, Thomas M., Gary, Ind. Dead-end clamp for cables. No. 1,381,779; June 14; v. 287; p. 328.
- Williams, Weston F., Falls Church, Va. Boiler. No. 1,383,179; June 28; v. 287; p. 707.
- Williams, William A., Florence, S. C. Means for driving live stock from railway-tracks. No. 1,370,252; Mar. 1; v. 284; p. 95.
- Williams, William C., New Orleans, La. Portable propelling device. No. 1,379,889; May 31; v. 286; p. 924.
- Williams, William E., Chicago, Ill. Steel-felly wheel. No. 1,367,847; Feb. 8; v. 283; p. 248.
- Williams, William E., Chicago, Ill. Pressed-plate wheel. No. 1,378,300; May 17; v. 286; p. 476.
- Williams, William E., Chicago, Ill. Plate disk wheel. No. 1,378,301; May 17; v. 286; p. 476.
- Williams, William E., Chicago, Ill. Cast-rim disk wheel. No. 1,378,302; May 17; v. 286; p. 746.
- Williams, William E., Chicago, Ill. Hollow-rolled-rim wheel. No. 1,379,843; May 31; v. 286; p. 916.
- Williams, William E., Chicago, Ill. Cast-steel-spoked wheel. No. 1,387,529; Aug. 16; v. 289; p. 434.
- Williams, William E., Chicago, Ill. Means for coordinating sound and motion-picture records. No. 1,389,407; Aug. 30; v. 289; p. 918.
- Williams, William E., Chicago, Ill. Pressed steel wheel. No. 1,392,380; Oct. 4.
- Williams, William E., Chicago, Ill. Flanged-disk pressed-steel wheel. No. 1,392,381; Oct. 4.
- Williams, William E., Chicago, Ill. Plate-web wheel. No. 1,398,614; Nov. 29.
- Williams, William E., Chicago, Ill. Tension-plate wheel. No. 1,398,615; Nov. 29.
- Williams, William G., Elgin, Ill. Chiropractic table. No. 1,399,419; Dec. 6.
- Williams, William H., Erdington, Birmingham, England. Box or container for razor-blades and the like. No. 1,377,379; May 10; v. 286; p. 248.
- Williams, William T. (See Van Sandt, R., and Williams.)
- Williams, Winfield S. (See Paine, M. H., and Williams.)
- Williamson, Arba G. (See Gray, G. B., and Williamson.)
- Williamson, Bert R., Fairfield, assignor to Keyes Fibre Company, Waterville, Me. Mold for apparatus for molding pulp articles. No. 1,364,228; Jan. 4; v. 282; p. 35.
- Williamson, Bert R., Fairfield, assignor to Keyes Fibre Company, Waterville, Me. Sucker-head for pulp-molding machines. No. 1,364,229; Jan. 4; v. 282; p. 35.
- Williamson, Bert R., Fairfield, assignor to Keyes Fibre Company, Waterville, Me. Bundling-machine. No. 1,401,298; Dec. 27.
- Williamson, Charles S., Chicago, Ill. Apparatus for handling coal, ore, and the like. No. 1,392,382; Oct. 4.
- Williamson, Colonel J., assignor to Williamson Machine Company, San Francisco, Calif. Apparatus for handling eggs. No. 1,379,234; May 24; v. 286; p. 727.
- Williamson, Colonel J., assignor to Williamson Machine Company, San Francisco, Calif. Apparatus for cleaning eggs. No. 1,392,546; Oct. 4.
- Williamson, Daniel E., assignor of one-half to B. N. Burleson, Gates, Tenn. Bottom for soap-boxes. No. 1,376,239; Apr. 26; v. 285; p. 686.
- Williamson, David, assignor to Williamson Holding Corporation, New York, N. Y. Nut-lock. No. 1,364,338; Jan. 4; v. 282; p. 56.
- Williamson, Fred J., Dover, Ohio. Refrigerator. No. 1,379,500; May 24; v. 286; p. 777.
- Williamson, George, Oldham, England. Boring and other cutting tool. No. 1,384,652; July 12; v. 288; p. 339.
- Williamson, George, Oldham, England. Chuck. No. 1,391,440; Sept. 20; v. 290; p. 533.
- Williamson, George, Oldham, England. Chuck. No. 1,391,441; Sept. 20; v. 290; p. 534.
- Williamson Holding Corporation. (See Williamson, David, assignor.)
- Williamson, John A., Denver, Colo. Finger-grasping razor-blade holder. No. 1,378,079; May 17; v. 286; p. 434.
- Williamson, John E., Norfolk, Va. Producing life-like simulations to inanimate objects. No. 1,378,641; May 17; v. 286; p. 541.
- Williamson Machine Company. (See Williamson, Colonel J., assignor.)
- Williamson, R., & Co. (See Verhunce, Charles E., assignor.)
- Williamson, R., & Co. (See Yardley, Horace R., assignor.)
- Williamson, Robert B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Winding for dynamo-electric machines. No. 1,400,336; Dec. 13.
- Williamson, Romeo L., Mount Vernon, Ohio. Power-transmission mechanism. No. 1,398,928; Nov. 29.
- Williamson, Samuel, Leeds, England. Tie-frame. No. 1,384,370; July 12; v. 288; p. 280.
- Williford, Ella, Detroit, Mich. Attachment for the backs of seats. No. 1,379,499; May 24; v. 286; p. 777.
- Willigman, Glen A. (See Justice, I. M., and Willigman.)
- Willis, Andrew H., assignor to National Foundry Company, Erie, Pa. Pouring steel. No. 1,389,725; Sept. 5; v. 290; p. 33.
- Willis, Arthur. (See Lavington, George L., assignor.)



## Alphabetical list of patentees—Continued.

- Willis, Bernard D., assignor to Automatic Electric Company, Chicago, Ill. Substation telephone-circuits. (Re-issue.) No. 15,070; Mar. 22; v. 284; p. 722.
- Willis, Bernard D., Oak Park, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,376,848; May 3; v. 286; p. 89.
- Willis, Charlotte J. (See Teall, Russell F., assignor.)
- Willis, Frank H., assignor of one-third to W. A. Dowdell and one-third to C. H. Jackson, Toronto, Ontario, Canada. Valve. No. 1,377,240; May 10; v. 286; p. 220.
- Willis, George M., Chicago, Ill. Thermostatic radiator-shutter control. No. 1,368,673; Feb. 15; v. 283; p. 455.
- Willis, George M., Chicago, Ill. Driving mechanism. No. 1,369,206; Feb. 22; v. 283; p. 598.
- Willis, George M., Chicago, Ill. Resilient wheel. No. 1,396,984; Nov. 15.
- Willis, George M., Chicago, Ill., and L. V. Newton, New York, N. Y., assignors to G. M. Willis, Chicago, Ill. Mounting for tanks and the like. No. 1,374,972; Apr. 19; v. 285; p. 411.
- Willis, Harry P., Waterford, assignor to Willite Road Construction Company of America, New York, N. Y. Plastic composition. No. 1,372,467; Mar. 22; v. 284; p. 684.
- Willis, Herman R. (See Willis, Reuben M. and H. R.)
- Willis, Le Roy W. (See Deems, E. M., and Willis.)
- Willis, Paul M., Orange, N. J., assignor to Radium Luminous Material Corporation, New York, N. Y. Self-luminous writing and reading device. No. 1,373,783; Apr. 5; v. 285; p. 78.
- Willis, Prior F., St. Louis, Mo. Valve. No. 1,392,547; Oct. 4.
- Willis, Reuben M. and H. R., Chanute, Kans. Child's crib. No. 1,387,089; Aug. 9; v. 289; p. 296.
- Willis, Warren E., assignor to E. I. Franklin & Co., North Attleboro, Mass. Buckle. No. 1,375,880; Apr. 26; v. 285; p. 617.
- Willis, William, Pawtucket, R. I. Automobile-signal. No. 1,392,731; Oct. 4.
- Willis, William C. (See Martin, H. L., and Willis.)
- Willison, Charles H., Portland, Oreg. Puzzle. No. 1,364,668; Jan. 4; v. 282; p. 120.
- Willison, Ralph A., and C. N. Esberg, Portland, Oreg. Change-sign device. No. 1,366,548; Jan. 25; v. 282; p. 613.
- Willison, Walter W., New York, N. Y., assignor to Thermokept Products Corporation. Peanut-butter. No. 1,398,352; Nov. 29.
- Williston, Belvin T., Somerville, Mass., assignor to Manning Maxwell and Moore, Inc., New York, N. Y. Boiler-feeding injector. No. 1,392,098; Sept. 27; v. 290; p. 740.
- Willite Road Construction Company of America. (See Willis, Harry P., assignor.)
- Willits, Guy L. (See Kinkad, R. S., Willits, and Downing.)
- Willits, Guy L., assignor, by mesne assignments, to The Belt Power Unit Corporation, Minneapolis, Minn. Portable power unit. No. 1,366,618; Jan. 25; v. 282; p. 627.
- Willkie, Herman F., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Making methyl formate. No. 1,400,195; Dec. 13.
- Willkie, Herman F., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Producing homogeneous products including films. No. 1,400,196; Dec. 13.
- Willman, Samuel K. (See Pennington, G. R., and Wellman.)
- Willmon, Jeremy C., Los Angeles, Calif. Vehicle-wheel. No. 1,378,303; May 17; v. 286; p. 476.
- Willner, E. Alfred, *et al.* (See Cave, Daniel B., assignor.)
- Willoughby, Cleveland C. (See Duncan, H. H., and Willoughby.)
- Willoughby, Edward F., Berhampore, and Edward M. B. Revill, Lyall Bay, Wellington, New Zealand. Fanlight-operating means. No. 1,365,757; Jan. 18; v. 282; p. 414.
- Willour, Le Roy, assignor to The Ashland Products Company, Ashland, Ohio. Lifting-jack. No. 1,373,475; Apr. 5; v. 285; p. 19.
- Willis, Cephas J., assignor of one-half to E. J. Willis, Toronto, Ontario, Canada. Detachable automobile steering-wheel. No. 1,400,121; Dec. 13.
- Willis, Child H. (See Tone, Fred I., assignor.)
- Willis, Edgar J. (See Willis, Cephas J., assignor.)
- Willis, Leonard G. (See Spencer, Kelvin T., assignor.)
- Willis, Marmaduke M., Fitchburg, Mass., assignor to The Regina Company, New York, N. Y. Starting and stopping mechanism for talking-machines. No. 1,379,069; May 24; v. 286; p. 695.
- Willis, Walter B., Baltimore, Md. Dish-drainer. No. 1,384,582; July 12; v. 288; p. 324.
- Willis, Walter B., Baltimore, Md. Strainer. No. 1,392,383; Oct. 4.
- Willis, William S., and R. A. Rogers, Oklahoma, Okla. Burglar-alarms for automobiles. No. 1,366,855; Jan. 25; v. 282; p. 674.
- Willis, Henry E., Cranford, N. J. Refrigeration apparatus. No. 1,364,339; Jan. 4; v. 282; p. 57.
- Willson, Andrew E., Grand Rapids, Mich. Picker-stick protector for looms. No. 1,382,754; June 28; v. 287; p. 626.
- Willson, Freeman R., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Rotary screen. No. 1,370,620; Mar. 8; v. 284; p. 210.
- Willson, Frederick, and H. F. Shindell, assignors to T. A. Willson & Co., Inc., Reading, Pa. Goggles. No. 1,401,572; Dec. 27.
- Willson, George M., Williamsport, Pa. Spring-motor governor. No. 1,378,206; May 17; v. 286; p. 458.
- Willson, Goggles, Inc. (See Soderling, Walter, assignor.)
- Willson, Samuel T., Brooklyn, N. Y. Matrix-scorching oven. No. 1,393,473; Oct. 11.
- Willson, T. A., & Co. (See Willson, F., and Shindel, assignors.)
- Willwerscheid, Theodor R., St. Paul, Minn. Painting-machine. No. 1,375,126; Apr. 19; v. 285; p. 441.
- Willy, John, Chicago, Ill. Record-slip support. No. 1,380,877; June 7; v. 287; p. 106.
- Willys Corporation. (See Gilchrist, Clarence F., assignor.)
- Willys Corporation. (See Post, Truman W., assignor.)
- Willys Corporation *et al.* (See Saxon, H. R., and Schwarze, assignors.)
- Willys-Overland Co., The. (See Green, Charles F., assignor.)
- Willys-Overland Company, The. (See Belden, Edward H., assignor.)
- Willys-Overland Company, The. (See Braselton, Chester H., assignor.)
- Willys-Overland Company, The. (See Brockway, Carl P., assignor.)
- Willys-Overland Company, The. (See Brown, Garnet C., assignor.)
- Willys-Overland Company, The. (See Gravel, Abundius, assignor.)
- Willys-Overland Company, The. (See Holmes, Edward, assignor.)
- Willys-Overland Company, The. (See Jerdone, Francis, Jr., assignor.)
- Willys-Overland Company, The. (See Kamper, Edward, assignor.)
- Willys-Overland Company, The. (See Kehoe, Thomas J., assignor.)
- Willys-Overland Company, The. (See Kennedy, John E., assignor.)
- Willys-Overland Company. (See Lightner, A. D., and Holmes, assignors.)
- Wilmarth & Morman Company. (See Lightner, Henry W., assignor.)
- Willys-Overland Company, The. (See Lindsey, Harry W., Jr., assignor.)
- Willys-Overland Company, The. (See McKinley, Charles W., assignor.)
- Willys-Overland Company, The. (See Miller, John C., assignor.)
- Willys-Overland Company, The. (See Pomeroy, Percy W., assignor.)
- Willys-Overland Company, The. (See Rollins, Grant W., assignor.)
- Willys-Overland Company, The. (See Sentlus, Antoine G., assignor.)
- Willys-Overland Company, The. (See Shepler, Harry L., assignor.)
- Wilmarth & Morman Company. (See Gorham, Edwin T., assignor.)
- Wilmarth & Morman Company. (See Williams, Arthur, assignor.)
- Wilming, Otto A. (See Burke, J. H., and Wilming.)
- Willmore, James A., *et al.* (See Hale, R. J., and Doyle, assignors.)
- Willmort Manufacturing Company. (See Frankel, M., Aisenstein, and Obermaier, assignors.)
- Willmot Engineering Company. (See Law, James C., assignor.)
- Willmot, George W. (See Eidam, Adam, assignor.)
- Wilms, Gottlieb D., and J. H. Steiger, Paterson, N. J. Shuttle tension. No. 1,400,397; Dec. 13.
- Wilms, Lee W. V., Chicago, Ill. Plantar-arch metatarsal foot-support. No. 1,375,340; Apr. 19; v. 285; p. 482.
- Wilputte, Alice A., *et al.* (See Lucke, Charles E., assignor.)
- Wilputte, Alice A. (See Wilputte, Louis, assignor.)
- Wilputte, Louis, *et al.* (See Lucke, Charles E., assignor.)
- Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke quenching and handling apparatus. No. 1,380,453; June 7; v. 287; p. 24.
- Wilputte, Louis, New Rochelle, assignor to American Dresser Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln air-heater. No. 1,389,408; Aug. 30; v. 289; p. 918.
- Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke-oven door and doorway. No. 1,399,594; Dec. 6.
- Wilputte, Louis, assignor of two-thirds to A. A. Wilputte, New Rochelle, N. Y. Coke-oven wall construction. No. 1,399,595; Dec. 6.
- Wilson, Charles L., Manette, Wash. Bucket-elevator. No. 1,375,881; Apr. 26; v. 285; p. 617.
- Wilsey, Irven H., Chicago, Ill. Atomizer and vaporizer. No. 1,386,297; Aug. 2; v. 289; p. 66.
- Wilska, Edward A., Vineland, N. J. Christmas-tree stand. No. 1,394,386; Oct. 18.
- Wilson, Alfred M. (See Lindsey, Willoughby B., assignor.)
- Wilson, Allen P., assignor to Boston Pencil Pointer Company, Waltham, Mass. Making cutters for pencil-sharpeners. No. 1,382,015; June 28; v. 287; p. 682.



*Alphabetical list of patentees—Continued.*

- Wilson, Allen P., assignor to Boston Pencil Pointer Company, Waltham, Mass. Making cutters for pencil-sharpeners. No. 1,383,046; June 28; v. 287; p. 682.
- Wilson, Allen P., assignor to Boston Pencil Pointer Company, Waltham, Mass. Making cutters for pencil-sharpeners. No. 1,383,047; June 28; v. 287; p. 682.
- Wilson, Amyuit L., assignor to The Petroleum Combustion Company, Elizabeth, N. J. Oil-burners. No. 1,366,685; Jan. 25; v. 282; p. 640.
- Wilson, Amyuit L., assignor to The Petroleum Combustion Company, Elizabeth, N. J. Bureau for fluid fuel. No. 1,375,948; Apr. 26; v. 285; p. 630.
- Wilson, Andrew O., *et al.* (See Francisco, Marshall E., assignor.)
- Wilson, Anna C., Seattle, Wash. Adjustable table. No. 1,372,261; Mar. 22; v. 284; p. 645.
- Wilson & Bennett Manufacturing Company. (See Bennett, Stevens A., assignor.)
- Wilson, Charles C. (See Campbell, Ronald E., assignor.)
- Wilson, Charles E., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,389,110; Aug. 30; v. 289; p. 859.
- Wilson, Christopher N., Lawrence, Mass. Distilling or recovering naphtha or other hydrocarbons from wool-fat solutions. No. 1,383,585; July 5; v. 288; p. 68.
- Wilson, Clarence, Waynesburg, Pa. Toaster. No. 1,377,043; May 3; v. 286; p. 127.
- Wilson, Clarence A. (See Smith, J. H., Jr., and Wilson.)
- Wilson, Clarence C., Corcoran, Calif. Process of and apparatus for pumping liquid and gas. No. 1,380,695; June 7; v. 287; p. 70.
- Wilson & Co. (See Hechler, Valentine, assignor.)
- Wilson & Company. (See Kurk, Frederick W., assignor.)
- Wilson & Company. (See Sapper, Ralph J., assignor.)
- Wilson, Connie H., and C. G. Lee, Asheville, N. C. Thermos-bottle attachment. No. 1,380,128; May 31; v. 286; p. 969.
- Wilson, Cora E., executrix. (See Wilson, John M., assignor.)
- Wilson, Cora I. S., Albuquerque, N. Mex. Soap-bag and washrag. No. 1,386,041; Aug. 2; v. 289; p. 16.
- Wilson, D Walton B., Stamford, Conn. Wrench. No. 1,367,222; Feb. 1; v. 283; p. 67.
- Wilson, Dalton K., Waterloo, Iowa. Cultivator. No. 1,393,061; Oct. 11.
- Wilson, Dalton K., Waterloo, Iowa. Steering mechanism for cultivators. No. 1,393,869; Oct. 18.
- Wilson, David H., Philadelphia, Pa. Phonograph-reproducer. No. 1,390,962; Sept. 13; v. 290; p. 374.
- Wilson, David H., Philadelphia, Pa. Phonograph-reproducer. No. 1,390,963; Sept. 13; v. 290; p. 374.
- Wilson, David H., Philadelphia, Pa. Stylus-bar mounting for reproducers. No. 1,390,964; Sept. 13; v. 290; p. 375.
- Wilson, David H., Philadelphia, Pa. Battery. No. 1,398,213; Nov. 22.
- Wilson, David H., Paterson, N. J., assignor to Wilson Welder & Metals Company Inc. Electric welding system. No. 1,386,215; Aug. 2; v. 289; p. 51.
- Wilson, Della C., Eagle Rock, Calif. Kettle. No. 1,391,231; Sept. 20; v. 290; p. 491.
- Wilson, Dewey E., Oakland, Iowa. Motor-meter lock. No. 1,379,669; May 31; v. 286; p. 883.
- Wilson Displayotype Machine Co., The. (See Wilson, Edward E., assignor.)
- Wilson, Earl M., St. Paul, and E. S. Seamon, Minneapolis, Minn. Railway-switch point. No. 1,390,850; Sept. 13; v. 290; p. 351.
- Wilson, Edward E., assignor to The Wilson Displayotype Machine Co., Cleveland, Ohio. Type-casting and line-forming machine. No. 1,370,676; Mar. 8; v. 284; p. 220.
- Wilson, Ernest S., Garrison, Iowa. Advertising novelty. No. 1,397,476; Nov. 15.
- Wilson, Frank R., and A. O. Ringo, Williston, N. D. Mowing-machine. No. 1,384,288; July 12; v. 288; p. 263.
- Wilson, Fred D., Moline, Ill. Tractor. No. 1,375,882; Apr. 26; v. 285; p. 617.
- Wilson, Frederick D., Moline, Ill. Transmission device. No. 1,393,870; Oct. 18.
- Wilson, Frederick D., assignor to Deere & Company, Moline, Ill. Lever. No. 1,391,152; Sept. 20; v. 290; p. 475.
- Wilson, George A., Jr., assignor to Carolina Pavement Company, Boston, Mass. Treating bituminous substances. No. 1,394,874; Oct. 25.
- Wilson, George H., Augusta, Ga. Attachment for slashers and finishers. No. 1,377,044; May 3; v. 286; p. 127.
- Wilson, George H., Augusta, Ga. Warp stop device. No. 1,377,045; May 3; v. 286; p. 127.
- Wilson, George R., Seattle, Wash. Can-opener. No. 1,371,657; Mar. 15; v. 284; p. 473.
- Wilson, George W., Los Angeles, Calif. Valve-lifting tool. No. 1,380,508; June 7; v. 287; p. 35.
- Wilson, Grace M., Detroit, Mich. Pendant and bodkin. No. 1,371,013; Mar. 8; v. 284; p. 284.
- Wilson, Hal P., Detroit, Mich. Draft appliance for stoves and furnaces. No. 1,394,387; Oct. 18.
- Wilson, Harry D. (See Hardy, J. N., Wilson, and Long.)
- Wilson, Henry W., Duluth, Minn. Coupling-keeper. No. 1,392,099; Sept. 27; v. 290; p. 740.
- Wilson, Herman T. (See Brant, P., and Wilson.)
- Wilson, Hiram, Mondovi, Wis. Flexible metal joint. No. 1,374,129; Apr. 5; v. 285; p. 145.
- Wilson, J. G., Corporation, The. (See Higson, Albert J., assignor.)
- Wilson, James E., Eldorado, Ill. Slide-rail holder. No. 1,376,128; Apr. 26; v. 285; p. 665.
- Wilson, James H., Chicago, Ill. Pail. No. 1,385,413; July 26; v. 288; p. 651.
- Wilson, James M., assignor, by mesne assignments, to H. C. Heidrich and J. G. Bender, Newark, N. J. Master cut-out for storage batteries. No. 1,391,232; Sept. 20; v. 290; p. 491.
- Wilson, Jay W., Cleveland, Ohio. Truss. No. 1,395,782; Nov. 1.
- Wilson, John D. (See McNally, S. L., and Wilson.)
- Wilson, John H., Baltimore, Md. Heat-storing attachment for stoves. No. 1,382,585; June 21; v. 287; p. 540.
- Wilson, John H., Burkburnett, Tex. Casing-pulling apparatus. No. 1,398,822; Nov. 29.
- Wilson, John J., McKeesport, Pa., assignor to Anti-Corrosion Engineering Company, New York, N. Y. Apparatus for removing gases from water. No. 1,387,748; Aug. 16; v. 289; p. 479.
- Wilson, John M., Newark, N. J. Car-cleaning. No. 1,372,988; Mar. 29; v. 284; p. 829.
- Wilson, John M., deceased, Montclair, N. J.; C. E. Wilson, executrix. Composition for cleaning and coating. No. 1,401,023; Dec. 20.
- Wilson, John T., Alameda, Calif. Packing-ring and piston. No. 1,370,771; Mar. 8; v. 284; p. 239.
- Wilson, John T., Alameda, Calif. Combined piston and packing-ring. No. 1,380,454; June 7; v. 287; p. 25.
- Wilson, John T., Jersey City, N. J. Measuring device. No. 1,396,308; Nov. 8.
- Wilson, John W., Indianapolis, Ind. Comb. No. 1,382,586; June 21; v. 287; p. 541.
- Wilson-Jones Loose Leaf Company. (See Unger, Paul O., assignor.)
- Wilson, Joseph F., Lawrence, Mass. Lock control for emergency-exit doors. No. 1,387,573; Aug. 16; v. 289; p. 443.
- Wilson, Joseph H., Houston, Tex. Sleeve-puller. No. 1,384,289; July 12; v. 288; p. 263.
- Wilson, Lawson B., Washington, D. C. Non-conducting plastic composition or cement known as plastic enamel. No. 1,389,084; Aug. 30; v. 289; p. 854.
- Wilson, Leon T., West Somerville, Mass. Electrical measuring instrument. No. 1,396,350; Nov. 8.
- Wilson, Lorain M. (See Scales, J. R., and Wilson.)
- Wilson, Lyman A., New York, N. Y. Endless-film reel. No. 1,382,040; June 21; v. 287; p. 437.
- Wilson, Maria I., Mexico, Mexico. Apparatus for grating coconut. No. 1,369,207; Feb. 22; v. 283; p. 598.
- Wilson, Mary M., Alameda, Calif. Process of and material for reducing fatty tissue. No. 1,369,997; Mar. 1; v. 284; p. 46.
- Wilson, Maurice E., Perry, Ohio. Flytrap. No. 1,374,539; Apr. 12; v. 285; p. 266.
- Wilson, Michael E., Detroit, Mich. Direction-indicator for automobiles. No. 1,397,666; Nov. 22.
- Wilson, Minard A., Irvington, N. J. Combination-tail-piece for violins. No. 1,397,193; Nov. 15.
- Wilson, Monroe W., Temple, Okla. Detachable cable-drum for spoked wheels. No. 1,381,152; June 14; v. 287; p. 211.
- Wilson, Paul, Pilot Oak, Ky. Time and cost computing and recording mechanism. No. 1,385,414; July 26; v. 288; p. 651.
- Wilson, Ralph W., New York, N. Y. Shaker top or cap. No. 1,386,042; Aug. 2; v. 289; p. 16.
- Wilson, Ralph W., New York, N. Y. Shaker top or cap. No. 1,386,043; Aug. 2; v. 289; p. 16.
- Wilson, Ralph W., New York, N. Y. Shaker top or cap. No. 1,386,044; Aug. 2; v. 289; p. 17.
- Wilson, Reginald P. (See Twyman, F., and Wilson.)
- Wilson, Reginald P., Kensington, London, England. Projection apparatus for optical form, outline, and dimension gaging appliances. No. 1,371,458; Mar. 15; v. 284; p. 434.
- Wilson, Richard H., Newark, N. J., and J. P. Schafer, Richmond Hill, assignors to Western Electric Company, Incorporated, New York, N. Y. Secret signaling. No. 1,395,378; Nov. 1.
- Wilson, Robert A., assignor to The Guiberson Corporation, Dallas, Tex. Well-tubing catcher. No. 1,374,540; Apr. 12; v. 285; p. 266.
- Wilson, Robert C. (See Coleman, George L., assignor.)
- Wilson, Robert E., Cambridge, Mass., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Manufacture of lead arsenate. No. 1,393,474; Oct. 11.
- Wilson, Robert F., Montrose, Colo. Potato-cutter. No. 1,390,739; Sept. 13; v. 290; p. 329.
- Wilson, Robert G., Davis, W. Va. Mine-trolley. No. 1,366,142; Jan. 18; v. 282; p. 489.
- Wilson, Robert H., Indianapolis, Ind. Radiator-guard. No. 1,388,908; Aug. 30; v. 289; p. 819.
- Wilson, Ross D., Kokomo, Ind. Motor-stand. No. 1,373,927; Apr. 5; v. 285; p. 107.
- Wilson, Samuel H., Glasgow, Scotland. Flask-clamp. No. 1,381,854; June 14; v. 287; p. 342.
- Wilson, Samuel J., Great Falls, Mont., assignor of one-half to P. Basinger, Clyde, Idaho. Beet-topping apparatus. No. 1,369,721; Feb. 22; v. 283; p. 698.



*Alphabetical list of patentees—Continued.*

- Wilson, Samuel J., Roberts, assignor of one-half to P. Basinger, Clyde, Idaho. Beet-topping apparatus. No. 1,393,871; Oct. 18.
- Wilson, Stephen G., Philadelphia, Pa. Broom. No. 1,373,445; July 5; v. 288; p. 39.
- Wilson, Stephen G., Philadelphia, Pa. Broom. No. 1,392,384; Oct. 4.
- Wilson, Thomas N., Clarinda, Iowa. Aeroplane structure. No. 1,374,700; Apr. 12; v. 285; p. 297.
- Wilson, Thomas R., Driggs, Idaho. Stove-door. No. 1,375,620; Apr. 19; v. 285; p. 635.
- Wilson, Walter, Dunfermline, Scotland. Apparatus for use in making faced concrete building-blocks. No. 1,401,384; Dec. 27.
- Wilson, Walter C., Johnson City, Tenn. Bookcase and magazine-holder. No. 1,374,269; Apr. 12; v. 285; p. 213.
- Wilson, Walter G., Charton, Farningham, England. Valve of internal-combustion engines of the sleeve-valve type. No. 1,368,203; Feb. 8; v. 283; p. 315.
- Wilson, Walter R., Doncaster, England. Gagging appliance. No. 398,616; Nov. 29.
- Wilson, Walter W., San Francisco, Calif. Combined spout and valve for liquid-containers. No. 1,393,331; Oct. 11.
- Wilson Welder & Metals Company. (See Churchward, Alexander, assignor.)
- Wilson Welder & Metals Company. (See Churchward, Jack, assignor.)
- Wilson Welder & Metals Company. (See Wilson, David H., assignor.)
- Wilson, Wilfrid A., London, England. Last for boots, shoes, and the like. No. 1,364,468; Jan. 4; v. 282; p. 82.
- Wilson, Wilfred A., London, England. Cuff-link, stud, solitaire, tie ornament, and the like. No. 1,390,255; Sept. 6; v. 290; p. 139.
- Wilson, William A., Minneapolis, Minn. Air-pump for automobiles. No. 1,397,829; Nov. 22.
- Wilson, William C. (See Bacon, G. C., and Wilson.)
- Wilson, William C., Jr. (See Schooley, E. A., and Wilson.)
- Wilson, William G., West New Brighton, N. Y. Angle rail-bar. No. 1,370,390; Mar. 1; v. 284; p. 120.
- Wilson, William G., West New Brighton, N. Y. Sink-seal. No. 1,379,501; May 24; v. 286; p. 777.
- Wilson, William G., and C. Hudak, Bridgeport, Conn. Vehicle-wheel. No. 1,386,389; Aug. 2; v. 289; p. 83.
- Wilson, William H. (See Land, Charles H., Jr., assignor.)
- Wilson, William J., Davilla, Tex. Cotton-chopper. No. 1,370,078; Mar. 1; v. 284; p. 61.
- Wilson, William R., Terre Haute, Ind. Roller-bearing hub. No. 1,379,670; May 31; v. 286; p. 883.
- Wilson, William S., Cascades, Quebec, Canada. Umbrella or parasol. No. 1,397,667; Nov. 22.
- Wilson, William W., and J. L. Perry, San Luis Obispo, Calif. Change-speed gearing. No. 1,372,384; Mar. 22; v. 284; p. 668.
- Wilson, Wylie G., New York, N. Y., assignor to Sliding Valves Incorporated. Sprinkler system. No. 1,364,340; Jan. 4; v. 282; p. 57.
- Wilson, Wylie G., Elizabeth, N. J., assignor, by mesne assignments, to Everlasting Valve Company. Concrete mixing and conveying machine. No. 1,372,385; Mar. 22; v. 284; p. 669.
- Wilt, Frank D., Allentown, Pa. Elevator safety device. No. 1,373,285; Mar. 29; v. 284; p. 887.
- Wilton, George W. (See Watkins, L. F., and Wilton, assignors.)
- Wimberley, Mason A., Oxnard, Calif. Rotary-engine. No. 1,381,531; June 14; v. 287; p. 281.
- Wimmer, Hugo, Bath, Me. Rotary cutter and paint-remover. No. 1,377,537; May 10; v. 286; p. 277.
- Wimmer, Hugo, Bath, Me. Rotary brush. No. 1,393,332; Oct. 11.
- Wimp, Elgy, Chicago, Ill. Motor-car signal. No. 1,381,382; June 14; v. 287; p. 253.
- Winans, Jay B., South Bend, Ind. Fried-cake forming and cutting machine. No. 1,393,872; Oct. 18.
- Winans, Wesley G., Detroit, assignor to F. Knowlson, Ann Arbor, Mich. Latch mechanism for garage-doors. No. 1,388,229; Aug. 23; v. 289; p. 630.
- Winberg, August E., Boundbrook, N. J. Windshield-visor. No. 1,394,595; Oct. 25.
- Winblad, Niklas, Stepeny, assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Internal-combustion engine. No. 1,400,122; Dec. 13.
- Winch, Francis W., Bogota, assignor to Sigmund Eisner Company, Red Bank, N. J. Sportsman's hat. No. 1,364,669; Jan. 4; v. 282; p. 120.
- Winchel, Rudolph, Webb City, Mo. Whirling saw. No. 1,398,166; Nov. 22.
- Winchell, James I., Davenport, Iowa. Locking device for automobiles. No. 1,366,992; Feb. 1; v. 283; p. 22.
- Winchenbaugh, Lester P., Hyde Park, and L. Gentile, Melrose, Mass. Making colored paper. No. 1,384,290; July 12; v. 288; p. 263.
- Winchester Repeating Arms Co. (See Bullard, Edwin W., assignor.)
- Winchester Repeating Arms Co. (See Burton, Frank F., assignor.)
- Winchester Repeating Arms Co. (See Butler, George P., assignor.)
- Winchester Repeating Arms Co. (See Johnson, Thomas C., assignor.)
- Winchester Repeating Arms Co. (See Kopp, Walter R., assignor.)
- Winchester Repeating Arms Co. (See Kouwenhoven, William B., assignor.)
- Winchester Repeating Arms Co. (See Lane, Leavitt J., assignor.)
- Winchester Repeating Arms Co. (See Robertson, John D., assignor.)
- Winchester Repeating Arms Company. (See Burton, F., and Joeck, assignors.)
- Winchester Repeating Arms Company. (See De Olaneta, Harold, assignor.)
- Winchester Repeating Arms Company. (See Gallagher, George D., assignor.)
- Winchester Repeating Arms Company. (See Miller, Louis A., assignor.)
- Winchester Repeating Arms Company. (See Paine, Arthur P., assignor.)
- Winckelmann, Max, Kiel, Germany. Hydroplane. No. 1,398,353; Nov. 29.
- Winckelmann, Max, Kiel, Germany. Foldable aeroplane-wing and the like. No. 1,377,538; May 10; v. 286; p. 277.
- Winckler, Henry J., San Antonio, Tex. Flush-valve. No. 1,390,851; Sept. 13; v. 290; p. 351.
- Wind, Isadore. (See Fullington, John H., assignor.)
- Windahl, Harold O., Chicago, Ill. Perpetual calendar. No. 1,401,385; Dec. 27.
- Windecker, Martin, Ruddock, La. Soap-holder. No. 1,390,184; Sept. 6; v. 290; p. 126.
- Winders, Bayard L. (See Durborow, H. J., and Winders.)
- Winders, G. W. (See Franks, William B., assignor.)
- Winders, Oliver R., Anderson, Ind. Wheel. No. 1,366,619; Jan. 25; v. 282; p. 628.
- Windman, Philip, Perth Amboy, N. J. Ground-clamp. No. 1,368,083; Feb. 8; v. 283; p. 291.
- Window Glass Machine Company. (See Clark, Henry F., assignor.)
- Window Glass Machine Company. (See Monroe, William L., assignor.)
- Windsor, Charles H., Palmyra, N. J. Portable sanitary basin. No. 1,368,591; Feb. 15; v. 283; p. 439.
- Windsor, Charles H., Palmyra, N. J. Sanitary basin for lavatories. No. 1,379,152; May 24; v. 286; p. 711.
- Windsor, Ernest A., Port Huron, Mich. Interchangeable heel. No. 1,398,662; Nov. 29.
- Wine, William E., Toledo, Ohio. Precipitator. No. 1,377,996; May 10; v. 286; p. 366.
- Winegarden, Arey V., Wichita, Kans. Mechanical movement. No. 1,381,046; June 7; v. 287; p. 139.
- Wineland, John F., Crafton, Pa. Portioning mechanism. No. 1,395,978; Nov. 1.
- Wineman, Charles P., assignor to Detroit Twist Drill Company, Detroit, Mich. Making drills. No. 1,379,070; May 24; v. 286; p. 695.
- Wineman, Charles P., assignor to Detroit Twist Drill Company, Detroit, Mich. Twisting-machine. No. 1,379,071; May 24; v. 286; p. 695.
- Wineman, Wade H., Chicago, Ill., assignor to Sullivan Machinery Company, Boston, Mass. Unloading apparatus for compressors. No. 1,394,802; Oct. 25.
- Wineman, Wade H., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. No. 1,398,912; Nov. 29.
- Wineman, Wade H., Chicago, Ill., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. No. 1,398,913; Nov. 29.
- Winestock, Otto C., Perkinsville, Vt. Apparatus for treating pulp. No. 1,389,281; Aug. 30; v. 289; p. 893.
- Winestock, Otto C., Perkinsville, assignor to W. W. Slack, Springfield, Vt. Indurated porous material and forming same. No. 1,377,241; May 10; v. 286; p. 220.
- Winfield, Charles D., Brooklyn, N. Y. Folding cot. No. 1,398,758; Nov. 29.
- Wing, Charles, Aurora, Ill. Grain-door fastener. No. 1,384,794; July 19; v. 288; p. 449.
- Wing, Charles B., Cedar Rapids, Iowa. Window. No. 1,395,074; Oct. 25.
- Wing, L. J., Mfg. Co. (See Wheller, Harry S., assignor.)
- Wing, Maurice E., Lawrence Park, Pa. License-tag-attaching device. No. 1,387,090; Aug. 9; v. 289; p. 297.
- Winger, Fred F. (See Burns, R. L., and Winger.)
- Winget Limited. (See Kiddie, Frederick W., assignor.)
- Wingett, John N., assignor to The American Shale Refining Company, Denver, Colo. Distillation-furnace. No. 1,384,878; July 19; v. 288; p. 466.
- Wingo, William W., Wilburton, Okla. Automatic trapdoor for mines. No. 1,388,681; Aug. 23; v. 289; p. 713.
- Wingqvist, Erik H., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Manufacturing bevel-gear wheels. No. 1,365,433; Jan. 11; v. 282; p. 311.
- Wingqvist, Erik H., Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Machine for cutting gear-wheels. No. 1,370,573; Mar. 8; v. 284; p. 200.
- Wingqvist, Erik H., assignor to Aktiebolaget Svenska Kugghjulsfabriken, Gottenborg, Sweden. Gear-wheel. No. 1,390,414; Sept. 13; v. 290; p. 263.
- Winitowy, Jack, Wroxtton, Saskatchewan, assignor of one-half to F. Shinkarek, Mundare, Alberta, Canada. Travelling-valise. No. 1,365,139; Jan. 11; v. 282; p. 255.



*Alphabetical list of patentees—Continued.*

- Winkelman, Fred G., Manitowoc, Wis. Cooking utensil. No. 1,379,072; May 24; v. 286; p. 696.
- Winkelmann, Albert, Paris, France. Lock. No. 1,400,588; Dec. 20.
- Winklepleck, Solomon A., Santa Ana, Calif. Razor-strop protector. No. 1,364,537; Jan. 4; v. 282; p. 95.
- Winkler, Alfred, and M. Dunnebler, Neuwied, Germany. Envelop roller folding-machine, in combination with a closing-flap-gumming machine. No. 1,396,906; Nov. 15.
- Winkler, Carl, Berne, Switzerland. Sheet-delivery for printing-machines. No. 1,374,791; Apr. 12; v. 285; p. 314.
- Winkler, Carl, Berne, Switzerland. Sheet feeding. No. 1,376,183; Apr. 26; v. 285; p. 675.
- Winkler, Jack L., Hempstead, N. Y. Time control. No. 1,383,893; July 5; v. 288; p. 132.
- Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Magazine for holding blanks. No. 1,366,549; Jan. 25; v. 282; p. 614.
- Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Feed mechanism. No. 1,368,312; Feb. 15; v. 283; p. 384.
- Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Feeding mechanism. No. 1,368,313; Feb. 15; v. 283; p. 384.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shank-edge trimmer. No. 1,372,058; Mar. 22; v. 284; p. 605.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-machine. No. 1,372,059; Mar. 22; v. 284; p. 606.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoes. No. 1,372,855; Mar. 29; v. 284; p. 801.
- Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. No. 1,374,869; Apr. 12; v. 285; p. 329.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Automatic sole-machine. No. 1,383,446; July 5; v. 288; p. 39.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. No. 1,385,601; July 26; v. 288; p. 691.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on heel-lifts or the like. No. 1,393,062; Oct. 11.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Trimming-machine. No. 1,393,656; Oct. 11.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Shoe-bottom. No. 1,396,801; Nov. 15.
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for molding heel-piles. No. 1,396,802; Nov. 15.
- Winn, Charles A., assignor to Chicago Bearings Company, Chicago, Ill. Antifriction bearing. No. 1,380,622; June 7; v. 287; p. 56.
- Winn, Chester B., Buffalo, N. Y. Artificial leg. No. 1,379,293; May 24; v. 286; p. 738.
- Winn Company. (See Winn, Warner A., assignor.)
- Winn, Sidney B., assignor to Lapeer Tractor Truck Company, Lapeer, Mich. Locking device for tractor and trailer coupling mechanism. No. 1,372,922; Mar. 29; v. 284; p. 815.
- Winn, Sidney B., assignor to Lapeer Tractor Truck Company, Lapeer, Mich. Trailer-braking means for trucks and tractors. No. 1,378,749; May 17; v. 286; p. 562.
- Winn, Warner A., assignor to Winn Company, Clarksville, Tenn. Implement for marking roof-rafter cuts. No. 1,389,556; Aug. 30; v. 289; p. 848.
- Winne, Charles H., assignor of one-half to F. C. Claessens, Troy, N. Y. Marking device. No. 1,369,512; Feb. 22; v. 283; p. 656.
- Winnie, Ralph J., Chicago, Ill. Food-receptacle. No. 1,367,848; Feb. 8; v. 283; p. 248.
- Winkler, Albert J., Natick, and W. E. Erickson, Brookline, Mass. Internal-combustion engine. No. 1,366,993; Feb. 1; v. 283; p. 22.
- Winquist, Fritz, Chicago, and J. Soravia, Oak Park, Ill. Stringed musical instrument. No. 1,390,004; Sept. 6; v. 290; p. 90.
- Winquist, Victor, assignor, by mesne assignments, of two-thirds to Burd High Compression Ring Company, Rockford, Ill. Tire-rim contractor. No. 1,381,383; June 14; v. 287; p. 253.
- Winship, Boit & Co. (See Winship, Charles N., assignor.)
- Winship, Charles N., assignor to Winship, Boit & Co., Wakefield, Mass. Union-suit. No. 1,389,922; Sept. 6; v. 290; p. 74.
- Winship, Frank W. (See Waterman, Henry D., assignor.)
- Winslett, William H., Nixon, Tex. Windmill. No. 1,399,282; Dec. 6.
- Winslow Boiler & Engineering Company. (See Halvorsen, O. G., Hudson, Rhoads, assignors.)
- Winslow, Francis A., assignor, by mesne assignments, to Austral Window Company, New York, N. Y. Window. (Reissue.) No. 15,146; July 5; v. 288; p. 162.
- Winslow, Hardin E., assignor of one-half to W. T. Winslow, Spokane, Wash. Grain-separator. No. 1,386,298; Aug. 2; v. 289; p. 66.
- Winslow, Harry P., Brooklyn, N. Y. Grinding-mill. No. 1,396,152; Nov. 8.
- Winslow, Harvey L., Waterbury, Conn. Checker. No. 1,399,453; Dec. 6.
- Winslow, Homer, Manchester, England. Winding-base. No. 1,367,934; Feb. 8; v. 283; p. 264.
- Winslow Safety High-Pressure Boiler Company. (See Ellis, Lewis M., assignor.)
- Winslow Safety High-Pressure Boiler Company. (See Winslow, William H., assignor.)
- Winslow, Warren T. (See Winslow, Hardin E., assignor.)
- Winslow, William H., assignor to Winslow Safety High-Pressure Boiler Company, Chicago, Ill. Oil-burning system. No. 1,399,234; Dec. 6.
- Winstead, Charles E., Wilson, N. C. Safety mailing-chute. No. 1,368,870; Feb. 15; v. 283; p. 494.
- Winston, Benjamin C., Orr, N. D. Horse-collar. No. 1,383,507; July 5; v. 288; p. 51.
- Winston, Earle G., Pittsfield, Mass., assignor to General Electric Company. Windings for electrical apparatus. No. 1,386,828; Aug. 9; v. 289; p. 244.
- Wintemute, Charles E., Vancouver, British Columbia, Canada. Ironing-board connection. No. 1,384,371; July 12; v. 288; p. 280.
- Winter, Anna K., Brooklyn, N. Y. Car-door safety-signal. No. 1,376,849; May 5; v. 286; p. 89.
- Winter, Carl R., Cincinnati, Ohio. Lifting-jack. No. 1,365,758; Jan. 18; v. 282; p. 414.
- Winter, Courtney P., New Brunswick, N. J. Folding-machine. No. 1,399,098; Dec. 6.
- Winter, Fred H., Schenectady, N. Y., assignor to General Electric Company. Regulator for electric generators. No. 1,373,928; Apr. 5; v. 285; p. 107.
- Winter, George J., assignor of one-half to H. G. Phillips, Buffalo, N. Y. Pneumatic heel. No. 1,399,836; Dec. 13.
- Winter, Henry W., Methuen, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stamping-machine. No. 1,381,153; June 14; v. 287; p. 211.
- Winter, Henry W., Methuen, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Marking-machine. No. 1,400,708; Dec. 20.
- Winter, Julius. (See Wendelken, Richard, assignor.)
- Winter, Lester A. (See Norman, Orville P., assignor.)
- Winter, Oscar, Philadelphia, Pa. Table-top protector. No. 1,399,371; Dec. 6.
- Winter, Robert C. (See Dibert, L. D., and Winter.)
- Winter, William A., East Orange, and L. Day, Mountain Lakes, N. J., assignors to The Kny-Scheerer Corporation. Sterilizable cautery. No. 1,366,231; Jan. 18; v. 282; p. 507.
- Winterbottom, Joseph, Cleveland, Ohio. Building sewers and tunnels. No. 1,372,856; Mar. 29; v. 284; p. 801.
- Winterhoff, Benjamin F., Elkhart, Ind. Socket for wind instruments. No. 1,376,986; May 3; v. 286; p. 116.
- Winterrath, Frank, Brooklyn, N. Y. Composite material. No. 1,369,151; Feb. 22; v. 283; p. 587.
- Winters, Alexander E., and E. R. Crampton, Grand Rapids, Mich. Latch. No. 1,385,102; July 19; v. 288; p. 513.
- Winters, David L., Edgewater, Md. Operating and controlling means for carbureters. No. 1,384,291; July 12; v. 288; p. 263.
- Winters, John P., and M. McCamon, Eldorado, Kans. Filter. No. 1,366,143; Jan. 18; v. 282; p. 489.
- Winters, Lee L., Ann Arbor, Mich. Oil-gage. No. 1,390,415; Sept. 13; v. 290; p. 263.
- Winters, Leonard R., and O. E. Gibson, Philadelphia, Pa. Spark-timer. No. 1,366,994; Feb. 1; v. 283; p. 22.
- Winther, Martin P., assignor to Kenosha Wheel & Axle Company, Kenosha, Wis. Metal vehicle-wheel. No. 1,364,341; Jan. 4; v. 282; p. 57.
- Winther, Martin P., Kenosha, Wis., assignor to Winther Motor Truck Company. Vehicle front-wheel driving mechanism. No. 1,379,792; May 31; v. 286; p. 906.
- Winther Motor Truck Company. (See Winther, Martin P., assignor.)
- Wintherlich, Hans J., assignor of one-half to R. H. Larson, Omaha, Nebr. Milk-sterilizing jar-closure. No. 1,383,894; July 5; v. 288; p. 132.
- Winton, Alexander, Lakewood, Ohio. Reversing mechanism. No. 1,371,286; Mar. 15; v. 284; p. 399.
- Winton, Alexander, Lakewood, Ohio. Valve structure for internal-combustion motors. No. 1,376,060; Apr. 26; v. 285; p. 652.
- Winton, Alexander, Lakewood, Ohio. Internal-combustion motor and fuel feed therefor. No. 1,401,746; Dec. 27.
- Winton, Alexander, Lakewood, Ohio. Motor-starting mechanism. No. 1,401,747; Dec. 27.
- Winton, E. H., et al. (See Campbell, W. L., and Straughan, assignors.)
- Winton, Hugo R. (See Denker, C. T., and Winton.)
- Woland, Aloyse, Hericourt, France. Dyeing and bleaching apparatus. No. 1,388,081; Aug. 16; v. 289; p. 543.
- Wippert, William O., and W. D. Spitzer, Marion, Ohio. Wooden heel. No. 1,384,109; July 12; v. 288; p. 226.



*Alphabetical list of patentees—Continued.*

- Wire Wheel Corporation of America. (See Ash, Charles S., assignor.)
- Wire Wheel Corporation of America. (See House, Henry A., Jr., assignor.)
- Wirebounds Patents Co. (See Hood, Arthur M., assignor.)
- Wirebounds Patents Company. (See Babcock, Guilford C., assignor.)
- Wirebounds Patents Company. (See Babcock, Oliver M., assignor.)
- Wirebounds Patents Company. (See Bombardie, Charles H., assignor.)
- Wirebounds Patents Company. (See Brown, Hugh, assignor.) (Reissue.)
- Wirebounds Patents Company. (See Eikler, Charles, assignor.)
- Wirebounds Patents Company. (See Inwood, R. G., and Bombardie, assignors.)
- Wirebounds Patents Company. (See Inwood, Richard G., assignor.)
- Wirebounds Patents Company. (See Mead, Howard G., assignor.)
- Wirebounds Patents Company. (See Thompson, Osceola C., assignor.) (Reissue.)
- Wirts, Edward J., assignor to National Refrigerators Company, St. Louis, Mo. Refrigerator. No. 1,377,451; May 10; v. 286; p. 262.
- Wirt, Asa A., Omaha, Nebr. Tang-mounting for implements. No. 1,382,154; June 21; v. 287; p. 457.
- Wirt, Asa A., Omaha, Nebr. Tang-mounting for implements. No. 1,382,155; June 21; v. 287; p. 458.
- Wirt, Charles, Philadelphia, Pa. Rheostat and making the same. No. 1,371,287; Mar. 15; v. 284; p. 399.
- Wirt, Charles, Philadelphia, Pa. Making electric heaters. No. 1,376,987; May 3; v. 286; p. 116.
- Wirt & Knox Mfg. Co. (See Wirt, Reuben D., assignor.)
- Wirt, Paul E., Bloomsburg, Pa. Fountain-pen. No. 1,379,890; May 31; v. 286; p. 924.
- Wirt, Reuben D., assignor to Wirt & Knox Mfg. Co., Philadelphia, Pa. Hose-banding device. No. 1,393,988; Oct. 18.
- Wirt, Zebulon, Kansas City, Mo. Grain-storage bin. No. 1,372,060; Mar. 22; v. 284; p. 606.
- Wirth, Antone M., assignor of one-half to F. J. Mackey, Stockton, Calif. Knife-protector for shoe-stitching machines. No. 1,387,673; Aug. 16; v. 289; p. 463.
- Wirth-Frey, Elias, Aarau, Laurenzvorstadt, Switzerland. Heat-interchange device. No. 1,393,475; Oct. 11.
- Wirth, Joseph, Fond du Lac, Wis. Cement-bag cleaner. No. 1,384,795; July 19; v. 288; p. 449.
- Wirth, Martin C., Indianapolis, Ind. Wire gutter-stay. No. 1,365,296; Jan. 11; v. 282; p. 285.
- Wisander, Hugo. (See Asplin, W. E., and Wisander.)
- Wisch, Walter J. (See Holmes, G. R., and Wisch.)
- Wisconsin Chair Company, The. (See Hansen, Oswald H., assignor.)
- Wisconsin Electric Company. (See Beach, Chester H., assignor.)
- Wisdom, James N., Elma, Wash. Roller thrust-bearing for friction-drums. No. 1,373,929; Apr. 5; v. 285; p. 108.
- Wisdom, Lewis E., Moberly, Mo. Nut-lock. No. 1,366,232; Jan. 18; v. 282; p. 507.
- Wise, Charles A., and E. B. Wise, Lawrence, Kans. Tractor-hitch. No. 1,392,864; Oct. 4.
- Wise, Clarence E., Washington, D. C. Portable tool for securing biding material to receptacles. No. 1,376,597; May 3; v. 286; p. 41.
- Wise, Elmer B. (See Wise, Charles A. and E. B.)
- Wise, Ernest A., assignor to Herbert Merton, Caversham, Reading, England. Ignition and lighting system for internal-combustion engines. No. 1,388,540; Aug. 23; v. 289; p. 692.
- Wise Furnace Company, The. (See Wise, Wilbert G., assignor.)
- Wise, George W. (See Wiechert, Frank T., assignor.)
- Wise, Harry, Yakima, Wash. Automobile-bed. No. 1,371,830; Mar. 15; v. 284; p. 505.
- Wise-McClung Manufacturing Company, The. (See Vander Putten, John R., assignor.)
- Wise, Solomon, Cincinnati, Ohio. Lock. No. 1,390,222; Sept. 6; v. 290; p. 133.
- Wise, Wilbert G., assignor to The Wise Furnace Company, Akron, Ohio. Furnace. No. 1,387,222; Aug. 9; v. 289; p. 320.
- Wisenant, Oscar H., Colorado Springs, assignor of one-third to J. W. Worster, Ordway, and one-third to E. F. Parrish, Colorado Springs, Colo. Air-valve. No. 1,368,871; Feb. 15; v. 283; p. 494.
- Wisenberg, Don C. and W., Peru, Ind. Jar-wrench. No. 1,394,388; Oct. 18.
- Wisenberg, Wilbur. (See Wisenberg, Don C. and W.)
- Wishart, John O. (See Wishart, William and J. O.)
- Wishart, William and J. O., assignors to Clinton Refrigerating Company, Clinton, Iowa. Process and apparatus for making ice. No. 1,392,385; Oct. 4.
- Wishart, William, and A. H. Morrell, Clinton, Iowa, assignors to Clinton Refrigerating Company. Valve-manifold. No. 1,397,912; Nov. 22.
- Wishart, William, and Albert H. Morrell, assignors to Clinton Refrigerating Company, Clinton, Iowa. Compressor valve mechanism. No. 1,398,309; Nov. 29.
- Wisniewski, John, Milwaukee, Wis. Railway-car brake. No. 1,388,682; Aug. 23; v. 289; p. 719.
- Wisnipolsky, Ike, Brooklyn, N. Y. Marking device. No. 1,374,482; Apr. 12; v. 285; p. 255.
- Wissel, Anthony J., trustee. (See Penrod, William F., assignor.)
- Wissinger, Earl, *et al.* (See Binns, John B., assignor.)
- Witbeck, Desford, assignor to P. C. Murphy Trunk Company, St. Louis, Mo. Skirt-hanger. No. 1,375,808; Apr. 26; v. 285; p. 603.
- Witham, Charles A., Lewiston, Me. Tire-spreader. No. 1,367,446; Feb. 1; v. 283; p. 112.
- Witham, George S., Jr., Hudson Falls, N. Y. Temperature-regulator. No. 1,378,927; May 24; v. 286; p. 669.
- Witham, George S., Jr., Hudson Falls, N. Y. Heat-reclaiming system for pulp-mills. No. 1,384,796; July 19; v. 288; p. 449.
- Witham, George S., Jr., Hudson Falls, N. Y. Paper-tester. No. 1,385,164; July 19; v. 288; p. 526.
- Witham, George S., Jr., Hudson Falls, N. Y., assignor to Union Bag and Paper Corporation. Fiber-crossing apparatus for paper-machines. No. 1,383,363; July 5; v. 288; p. 22.
- Witham, George S., Jr., Ausable Forks, N. Y., assignor to G. A. Schanze, Cleveland, Ohio. Safety-indicator for internal-combustion engines. No. 1,399,534; Dec. 6.
- Witham, Homer S., Jacksonville, Fla. Trunk-strap and fastener therefor. No. 1,376,240; Apr. 26; v. 285; p. 686.
- Witherell, Earl M., assignor of one-half to F. A. Patrick & Company, Duluth, Minn. Drying-form. No. 1,373,694; Apr. 5; v. 285; p. 61.
- Witherell, Earl M., assignor of one-half to F. A. Patrick & Company, Duluth, Minn. Hosiery-carriage. No. 1,384,547; July 12; v. 288; p. 317.
- Withington, Philip H., assignor to The Sparks-Withington Company, Cleveland, Ohio. Manufacture of fans. No. 1,377,300; May 10; v. 286; p. 232.
- Withrow, Floyd G., Grand Rapids, Mich. Spark and throttle rod tension appliance. No. 1,380,169; May 31; v. 286; p. 977.
- Withrow, Floyd G., Grand Rapids, Mich. Steering-rod shock-absorbing and antirattling device. No. 1,383,895; July 5; v. 288; p. 132.
- Withycombe, Robert M., Penshurst, near Sydney, New South Wales, Australia. Toothbrush. No. 1,382,587; June 21; v. 287; p. 541.
- Witkowski, Stanley J., Detroit, Mich. Lock. No. 1,389,409; Aug. 30; v. 289; p. 919.
- Witry, Louis W., assignor to Waterloo Gasoline Engine Company, Waterloo, Iowa. Steering-gear for tractors. No. 1,381,384; June 14; v. 287; p. 253.
- Witsaman, George H., assignor of one-half to W. B. Ruston, Dayton, Ohio. Tire-mold. No. 1,373,389; Mar. 29; v. 284; p. 907.
- Witt, Arthur G., Hamilton, Ontario, Canada. Shock-absorber. No. 1,392,386; Oct. 4.
- Witt, George C., Indianapolis, Ind. Removable dental bridge. No. 1,370,720; Mar. 8; v. 284; p. 229.
- Witt, Henry N., Morristown, Tenn. Truss. No. 1,383,778; July 5; v. 288; p. 108.
- Witt, John J., Winchendon, Mass., assignor to Goodspeed Machine Company. Tailstock for lathes. No. 1,369,152; Feb. 22; v. 283; p. 587.
- Witt, Roscoe P., Kansas City, Kans., assignor to Ridenour-Baker Grocery Company, Kansas City, Mo. Peanut-blanching machine. No. 1,388,394; Aug. 23; v. 289; p. 664.
- Witt, Roscoe P., Kansas City, Kans., assignor to Ridenour-Baker Grocery Company, Kansas City, Mo. Blanching peanuts. No. 1,388,395; Aug. 23; v. 289; p. 664.
- Witt, William C., Alvin, Tex. Ditch-filling machine. No. 1,386,829; Aug. 9; v. 289; p. 244.
- Witte, Bernhard H., Chicago, Ill. Swing. No. 1,391,153; Sept. 20; v. 290; p. 475.
- Witte, Felix, assignor to Zaremba Company, Buffalo, N. Y. Evaporator. No. 1,373,041; Mar. 29; v. 284; p. 838.
- Witte, Lucile L., Kiel, Wis. Photograph-album. No. 1,385,196; July 19; v. 288; p. 532.
- Witte, Meinhard, Spicer, Minn. Automobile-radiator. No. 1,365,759; Jan. 18; v. 282; p. 414.
- Witte, Paul O., Minneapolis, Minn. Demountable-rim fastener. No. 1,389,410; Aug. 30; v. 289; p. 919.
- Witte, Theodore, Makoti, N. D. Guard-finger and finger-bar. No. 1,374,973; Apr. 19; v. 285; p. 411.
- Wittenberg, Ralph S., The Dalles, assignor to Pacific Evaporator Company, Portland, Ore. Preparing evaporated vegetables. No. 1,372,112; Mar. 22; v. 284; p. 616.
- Wittenmeier, Fred, Chicago, Ill. Multiple ball-valve. No. 1,401,223; Dec. 27.
- Wittenmyer, Arthur L., Kirkland, Wash. Hot-plate lifter. No. 1,375,268; Apr. 19; v. 285; p. 468.
- Witter, William S., Davenport, Iowa. Spark-plug and ignition tester. No. 1,385,415; July 26; v. 288; p. 652.
- Witern, Frank H., Flandreau, S. D. Weather-stripping for vehicles. No. 1,396,153; Nov. 8.
- Wittig, Alfred C., Rochester, N. Y. Operating mechanism for signals and other devices. No. 1,390,662; Sept. 13; v. 290; p. 314.
- Wittig, Wilhelm, Augsburg, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fastening means for optical instruments. No. 1,385,512; July 26; v. 288; p. 673.



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- Wittman, Edward J., assignor to Illinois Watch Case Company, Elgin, Ill. Watch-bow fastener. No. 1,375,454; Apr. 19; v. 285; p. 500.
- Wittmann, Oscar, Lincoln, Neb. Battery-jar. No. 1,381,608; June 14; v. 287; p. 295.
- Witty, George, New York, N. Y. Paint vehicle and making the same. No. 1,379,235; May 24; v. 286; p. 727.
- Witty, Peter, Evanston, Ill. Candy-mold. No. 1,387,574; Aug. 16; v. 289; p. 443.
- Witushen, Mitro, Milwaukee, Wis. Horseshoe. No. 1,383,508; July 5; v. 288; p. 51.
- Witzberger, Etienne, Carnegie, Pa., assignor to Witzberger Heating Appliances Company. Combination reflector-stove. No. 1,394,389; Oct. 18.
- Witzberger, Etienne, Carnegie, Pa., assignor to Witzberger Heating Appliances Company. Collapsible heating-stove. No. 1,394,390; Oct. 18.
- Witzberger Heating Appliances Company. (See Witzberger, Etienne, assignor.)
- Wizard Electric Lamp Company. (See Claussen, M., and Bradt, assignors.)
- Witzel, Joseph R., Tacony, Pa. Building construction. No. 1,378,928; May 24; v. 286; p. 669.
- Wizner, Edward K., Milwaukee, Wis. Automatic lighting device for talking-machines. No. 1,375,341; Apr. 19; v. 285; p. 482.
- Wobig, Fred H., Detroit, Mich., assignor, by judicial decree, to Meridian Motor Valve Company. Valve-welding. No. 1,366,108; Jan. 18; v. 282; p. 482.
- Wochner, Adolph, trustee. (See Rocke, John, assignor.)
- Wodack Electric Tool Corporation. (See Lochner, Albert T., assignor.)
- Wodicka, Felix. (See Duerst, William B., assignor.)
- Wodraska, Walter J., New York, N. Y. Safety device for gas-ranges. No. 1,376,909; May 3; v. 286; p. 101.
- Wodraska, Walter J., New York, N. Y. Pneumatic action. No. 1,396,492; Nov. 8.
- Wodrich, Frank W., Evanston, Ill. Apparatus for fitting clothes. No. 1,372,732; Mar. 29; v. 284; p. 776.
- Wodrich, Frank W., Evanston, Ill. Formograph. No. 1,393,000; Oct. 11.
- Woelfel, William, Peabody, Mass. Guard for protecting machine operators. No. 1,384,501; July 12; v. 288; p. 307.
- Woerner, Eugen, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Lubricating system. No. 1,367,677; Feb. 8; v. 283; p. 214.
- Woerner, Robert, Mannheim, Germany. Machine for pressing cigars. No. 1,399,235; Dec. 6.
- Woerner, William P., Lancaster, Pa. Detonating toy. No. 1,382,588; June 21; v. 287; p. 541.
- Woernley, Harry F., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Friction draft-gear. No. 1,378,393; May 17; v. 286; p. 493.
- Woernley, Harry F., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric coupling device. No. 1,394,057; Oct. 18.
- Woernley, Harry F., Pittsburgh, assignor to The Westinghouse Air-Brake Company, Wilmerding, Pa. Weather-protector for couplings. No. 1,400,649; Dec. 20.
- Woessner, William, St. Louis, Mo. Connector for batteries. No. 1,381,443; June 14; v. 287; p. 264.
- Wofford, Clarence, Atlanta, Ga. Marker or indicator. No. 1,395,323; Nov. 1.
- Wofford, Joseph V., Catoosa, Okla. Cotton-picker. No. 1,364,670; Jan. 4; v. 282; p. 120.
- Wohl, M. J., & Co. (See Wohl, M. J., and Mayer, assignors.)
- Wohl, M. J., and Company. (See Wohl, M. J., and Hertzberg, assignors.)
- Wohl, Maurice J., Brooklyn, N. Y. Arc-lamp. No. 1,394,875; Oct. 25.
- Wohl, Maurice J., Long Island City, and M. Mayer, New York, assignors to M. J. Wohl & Co., Inc., Long Island City, N. Y. Telescopic stand. No. 1,394,596; Oct. 25.
- Wohl, Maurice J., and H. Hertzberg, New York, N. Y., assignors to M. J. Wohl and Company, Inc. Arc-lamp. No. 1,394,876; Oct. 25.
- Wohlauer, Alfred A., New York, N. Y. Electric-lighting unit. No. 1,368,674; Feb. 15; v. 283; p. 456.
- Wohlenberg, Walter J., New Haven, Conn. Meter. No. 1,401,299; Dec. 27.
- Wohlpart, August J., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines. No. 1,384,797; July 19; v. 288; p. 449.
- Wohn, Frederick, San Antonio, Tex. Overhead radial conveyor system. No. 1,391,598; Sept. 20; v. 290; p. 565.
- Wolsard, Edgar E. D., Pittston, Pa. Dental appliance. No. 1,374,792; Apr. 12; v. 285; p. 314.
- Wojcik, John, Chicago, Ill. Lock. No. 1,374,793; Apr. 12; v. 285; p. 315.
- Wojcik, Stefan, assignor of one-half to J. Lewandowski, Detroit, Mich. Cue-tip clamp. No. 1,381,385; June 14; v. 287; p. 254.
- Wojcik, Stefan, assignor of one-half to J. Lewandowski, Detroit, Mich. Cue-tip clamp. No. 1,381,386; June 14; v. 287; p. 254.
- Wojcik, Stefan, assignor of one-half to J. Lewandowski, Detroit, Mich. Sash-fastener. No. 1,397,668; Nov. 22.
- Wojtasiewicz, Kazimierz, Cleveland, Ohio. Phonograph. No. 1,401,849; Dec. 27.
- Wokoun, Frank, Baltimore, Md. Record-envelop. No. 1,397,477; Nov. 15.
- Wolcott, Alven E., Long Beach, Calif. Theft-alarm. No. 1,366,144; Jan. 18; v. 282; p. 489.
- Wolcott, Edson R., assignor to International Precipitation Company, Los Angeles, Calif. Separating suspended particles from gases. No. 1,383,586; July 5; v. 288; p. 68.
- Wolcott, Frank E., Hartford, Conn. Dish-washing-machine receptacle. No. 1,380,310; May 31; v. 286; p. 1003.
- Wolcott, Frank E., Hartford, Conn. Dish-washing machine. No. 1,390,223; Sept. 6; v. 290; p. 133.
- Wolcott, Frank E., Hartford, Conn. Washing-machine. No. 1,390,224; Sept. 6; v. 290; p. 133.
- Wold, Charles J., Grantsburg, Wis. Cant-hook and carrier. No. 1,390,185; Sept. 6; v. 290; p. 126.
- Wolf, Albert, *et al.* (See Kaufmann, Abraham J., assignor.)
- Wolf, Anthony, Long Island City, N. Y. Fishing-net. No. 1,366,145; Jan. 18; v. 282; p. 489.
- Wolf, Austin M., Plainfield, N. J. Cooling and indicating system for internal-combustion engines. No. 1,400,925; Dec. 20.
- Wolf, Benjamin, *et al.* (See Kaufmann, Abraham J., assignor.)
- Wolf, Bernhard M. (See Fischer, H. J., and Wolf.)
- Wolf, Charles, Portland, Oreg. Link saw. No. 1,397,026; Nov. 15.
- Wolf, Clarence, *et al.* (See Kaufmann, Abraham J., assignor.)
- Wolf, David, New York, N. Y. Hair-net. No. 1,379,236; May 24; v. 286; p. 727.
- Wolf, Edwin, *et al.* (See Kaufmann, Abraham J., assignor.)
- Wolf, Emil. (See Kereszty, G., and Wolf.)
- Wolf, Frank. (See Aurich, E., and Wolf.)
- Wolf, Frank, New York, N. Y. Display-cabinet. No. 1,382,704; June 28; v. 287; p. 617.
- Wolf, Fred W., Detroit, Mich., assignor, by mesne assignments, to The Isko Company, Chicago, Ill. Thermostatic-switch unit. No. 1,366,759; Jan. 25; v. 282; p. 655.
- Wolf, Frederick W., Chicago, Ill. Controller for gas-burners. No. 1,385,513; July 26; v. 288; p. 673.
- Wolf, Gustav, East Providence, R. I. Cloth-finishing. No. 1,401,663; Dec. 27.
- Wolf, Hans. (See Slama, F., and Wolf.)
- Wolf, Jacob, Milwaukee, Wis. Gas-engine. No. 1,390,416; Sept. 13; v. 290; p. 263.
- Wolf, Jacob J., Jr., New Orleans, La. Camera. No. 1,374,794; Apr. 12; v. 285; p. 315.
- Wolf, John L., Logansport, Ind. Adjustable shoe-last. No. 1,396,907; Nov. 15.
- Wolf, Louis, *et al.* (See Kaufmann, Abraham J., assignor.)
- Wolf, R., Aktiengesellschaft. (See Heilmann, Karl, assignor.)
- Wolfe, Merl R., Cambridge, Mass. Internal-combustion engine. No. 1,389,337; Aug. 30; v. 289; p. 905.
- Wolfe, Arthur F., Philadelphia, Pa. Machine for snipping string-beans. No. 1,396,080; Nov. 8.
- Wolfe, Charles F., New York, N. Y. Lubricator for guideways. No. 1,378,750; May 17; v. 286; p. 563.
- Wolfe, Charles H., Port Clinton, Ohio. Vehicle-lamp mounting. No. 1,376,988; May 3; v. 286; p. 116.
- Wolfe, Charles H., and H. G. Allen, Seattle, Wash. Check writing and numbering machine. No. 1,366,620; Jan. 25; v. 282; p. 628.
- Wolfe, Clinton, Brooklyn, and J. A. Faurot, New York, N. Y. Door and gate controlling device. No. 1,367,340; Feb. 1; v. 283; p. 91.
- Wolfe, Clinton M., *et al.* (See Mullins, John C., Jr., assignor.)
- Wolfe, Delwin L., Almira, Wash. Crank-shaft thrust-bearing. No. 1,364,420; Jan. 4; v. 282; p. 72.
- Wolfe, Elijah K., Paducah, Ky. Grate-shaker bar. No. 1,393,930; Oct. 18.
- Wolfe, Frank D., San Jose, Calif. Reinforced concrete construction. No. 1,389,803; Sept. 6; v. 290; p. 49.
- Wolfe, Harry E., Hastings, Mich. Combination foundry-tool. No. 1,391,814; Sept. 27; v. 290; p. 681.
- Wolfe, Harry H., assignor to The American Floor Surfacing Machine Company, Toledo, Ohio. Tension means for floor-surfacing machines. No. 1,374,345; Apr. 12; v. 285; p. 228.
- Wolfe, Homer L. (See Davis, C. A., and Wolfe.)
- Wolfe, Jacob M., Lathrop, Calif. Rodent-trap. No. 1,366,995; Feb. 1; v. 283; p. 22.
- Wolfe, Joel B. (See Van Patten, L. C., and Wolfe.)
- Wolfe, John A. (See Haubert, Leo, assignor.)
- Wolfe, Rowland H., Chicago, Ill. Can-opener. No. 1,374,702; Apr. 12; v. 285; p. 297.
- Wolfe, Isador, and A. Kohl, Cleveland, Ohio. Machine for setting snap-fasteners on garments. No. 1,387,530; Aug. 16; v. 289; p. 435.
- Wolfenden, John W., Nashville, Tenn. Hub-liner. No. 1,383,048; June 28; v. 287; p. 682.
- Wolfermann, Carl E. E., New York, N. Y. Automobile-top. No. 1,364,671; Jan. 4; v. 282; p. 120.
- Wolff, Aaron H., New York, N. Y. Gas-burner. No. 1,399,178; Dec. 6.
- Wolff, Abraham. (See Fuld, S., Traube, and Wolff.)
- Wolff, August, New York, N. Y. Music-stand. No. 1,364,169; Jan. 4; v. 282; p. 24.



## Alphabetical list of patentees—Continued.

- Wolff, August L., Chicago, Ill. Internal-combustion engine. No. 1,386,544; Aug. 2; v. 289; p. 113.
- Wolff, Edwin H., El Dorado, assignor of one-half to S. Clark, Kingsville, Kans. Stovepipe-fastener. No. 1,391,646; Sept. 20; v. 290; p. 535.
- Wolff, Eugen, Tempelhof, near Berlin, Germany. Cinematographic arrangement. No. 1,397,346; Nov. 15.
- Wolff, Frank W., New Kensington, Pa., assignor to W. P. Murphy, New York, N. Y. Railway-car. No. 1,393,333; Oct. 11.
- Wolff, George, Paterson, N. J. Grinding-plate for attrition-mills. No. 1,400,123; Dec. 13.
- Wolff, H., estate, The. (See Levine, Bernard, assignor.)
- Wolff, Henry, New York, N. Y. Attachment for ink-bottles. No. 1,380,129; May 31; v. 286; p. 930.
- Wolff, Henry N., Oroville, assignor to Sunical Packing Company, San Francisco, Calif. Preserving olives. No. 1,393,873; Oct. 18.
- Wolff, James J., New York, N. Y. Tag-holder. No. 1,368,084; Feb. 8; v. 283; p. 292.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Talking-machine. No. 1,387,575; Aug. 16; v. 289; p. 444.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Talking-machine horn. No. 1,387,031; Aug. 9; v. 289; p. 284.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Talking-machine horn. No. 1,392,037; Sept. 27; v. 290; p. 728.
- Wolff Manufacturing Company. (See Gavin, John H., assignor.)
- Wolff, Oscar M., assignor to B. B. Hanak Company, Chicago, Ill. Meat-compressor. No. 1,388,082; Aug. 16; v. 289; p. 544.
- Wolff, Wallace B. (See Hood, E. K., and Wolff.)
- Wolff, Wallace B., Chicago, Ill. Slitting-machine. No. 1,369,153; Feb. 22; v. 283; p. 588.
- Wolffsohn, Lionel M., (now by judicial change of name Lionel M. Woolson.) Hoboken, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine-starting apparatus. No. 1,393,595; Oct. 11.
- Wolffsohn, Lionel M., (now by judicial change of name Lionel M. Woolson.) Union, N. J., assignor, by mesne assignments, to Bijur Motor Appliance Company. Electric system for motor-vehicles and the like. No. 1,393,596; Oct. 11.
- Wolfram, Andrew, Dormont, Pa. Machine for making nuts. No. 1,393,063; Oct. 11.
- Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,368,314; Feb. 15; v. 283; p. 385.
- Wolhaupter, Benjamin, New Rochelle, N. Y. Welded rail-anchor. No. 1,369,208; Feb. 22; v. 283; p. 598.
- Wolhaupter, Benjamin, New Rochelle, N. Y. Rolling rail-anchors. No. 1,371,288; Mar. 15; v. 284; p. 399.
- Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,382,335; June 21; v. 287; p. 492.
- Wolhaupter, Benjamin, New Rochelle, N. Y. Welded rail-anchor. (Reissue.) No. 15,131; June 21; v. 287; p. 546.
- Wolhaupter, Benjamin, New Rochelle, N. Y. Welded rail-anchor. (Reissue.) No. 15,132; June 21; v. 287; p. 546.
- Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,385,936; July 26; v. 288; p. 757.
- Wolhaupter, Benjamin, New Rochelle, N. Y. Welded rail-anchor. (Reissue.) No. 15,215; Oct. 25.
- Wolhaupter, Benjamin, New Rochelle, N. Y. Welded rail-anchor. (Reissue.) No. 15,216; Oct. 25.
- Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Means for lubricating rail-joints. No. 1,394,597; Oct. 25.
- Wolhaupter, Benjamin, New Rochelle, assignor to The Rail Joint Company, New York, N. Y. Rail-end-supporting rail-joint. No. 1,394,598; Oct. 25.
- Wolken, Harry B. (See Barron, L. L., Wolken, and Felker.)
- Wollam, Grace, *et al.* (See Wollam, Nina F. and H., assignors.)
- Wollam, Howard. (See Wollam, Nina F. and H.)
- Wollam, John R. (See Osborn, M. E., and Wollam.)
- Wollam, Morris, *et al.* (See Wollam, Nina F. and H., assignors.)
- Wollam, Nina F. and H., Pullman, Nebr., assignors of one-half to G. and M. Wollam, Hagie, Wyo. Baby jumper and gocart. No. 1,370,176; Mar. 1; v. 284; p. 80.
- Wollenhaupt, Justus J., assignor to The Monitor Stove Company, Cincinnati, Ohio. Pipeless hot-air furnace for buildings. No. 1,377,539; May 10; v. 286; p. 277.
- Wollensak, Andrew, and F. A. G. Pirwitz, assignors to Wollensak Optical Company, Rochester, N. Y. Photographic shutter. No. 1,397,669; Nov. 22.
- Wollensak Optical Company. (See Wollensak, A., and Piritz, assignors.)
- Wollenweber, Paul F., assignor to The K. M. Manufacturing Company, Toledo, Ohio. Grease-cup. No. 1,368,675; Feb. 15; v. 283; p. 456.
- Wollenweber, Paul F., assignor to Electric Auto-Lite Corporation, Toledo, Ohio. Electric switch. No. 1,398,053; Nov. 22.
- Wollesen, Jacob F., Lockwood, Calif. Reversing-gear. No. 1,394,131; Oct. 18.
- Wolter, Antone E., Seattle, Wash. Direction-signal for motor-vehicles. No. 1,369,998; Mar. 1; v. 284; p. 46.
- Wolter, Fred W., Cuero, Tex. Clevis attachment for plows. No. 1,390,240; Sept. 6; v. 290; p. 136.
- Wolter, Rodolpho, Buenos Aires, Argentina. Weighing-scale. No. 1,398,480; Nov. 29.
- Wolters, Benjamin W., Holland, Mich. Dough-raising appliance. No. 1,396,908; Nov. 15.
- Wolvekamp, Mari E., Oakland, Calif. Alkali salts of oxidized protalbinic acid and of oxidized lysalbinic acid as stable protective colloids for mercury compounds. No. 1,391,154; Sept. 20; v. 290; p. 475.
- Wolverine Truck-Trailer Co. (See De Mattia, Constant, assignor.)
- Wolverton, Don S., Doland, S. D. Tractor-lug. No. 1,392,100; Sept. 27; v. 290; p. 740.
- Wolverton, Ralph H. S., Walla Walla, Wash. Printing-machine. No. 1,400,124; Dec. 13.
- Womack, Frank, Los Angeles, Calif., assignor of one-fourth to M. S. Hansen, Richville, and one-fourth to L. A. Womack, Cheney, Wash. Trolley. No. 1,364,672; Jan. 4; v. 282; p. 120.
- Womack, Luther A., *et al.* (See Womack, Frank, assignor.)
- Womack, William, Emmett, Idaho. Tool. No. 1,368,085; Feb. 8; v. 283; p. 292.
- Wommer, Frederic, Minneapolis, Minn. Cream-extractor. No. 1,377,650; May 10; v. 286; p. 299.
- Wompey, John J., Denver, Colo., assignor to The L. Grauman Fixture Company. Soda-fountain. No. 1,380,130; May 31; v. 286; p. 970.
- Wonder Trap Co. (See Baker, William E., assignor.)
- Wones, Raymond O., Maplewood, Ohio. Pump. No. 1,392,670; Oct. 4.
- Wonsler, Elsworth J., Eureka, Wash. Weeder. No. 1,397,847; Nov. 22.
- Wonsowicz, George, assignor of one-half to H. J. Ralicki, Forks, N. Y. Locking device for automobiles. No. 1,368,676; Feb. 15; v. 283; p. 456.
- Wooch, Eric M. (See Wooch, Walter R., H. J., and E. M.)
- Wooch, Herbert J. (See Wooch, Walter R., H. J., and E. M.)
- Wooch, Herbert J. and W. R., assignors to Superior Manufacturing Company, Lodi, Calif. Twin centrifugal pump. No. 1,368,086; Feb. 8; v. 283; p. 292.
- Wooch, Walter R. (See Wooch, Herbert J. and W. R.)
- Wooch, Walter R., H. J., and E. M., assignors to Superior Manufacturing Company, Inc., Lodi, Calif. Double-balance centrifugal pump. No. 1,395,464; Nov. 1.
- Wood, A. J., Grand Rapids, assignor to Bennett Injector Company, Muskegon, Mich. Grease-gun for barrels and the like. No. 1,382,705; June 28; v. 287; p. 617.
- Wood, A. J., Grand Rapids, assignor to Bennett Injector Company, Muskegon, Mich. Truck. No. 1,392,387; Oct. 4.
- Wood, Ada. (See Latham, Minnie M., assignor.)
- Wood, Albert B., *et al.* (See Brown, Charles A., assignor.)
- Wood, Albert B., New Orleans, La. Meter. No. 1,383,687; July 5; v. 288; p. 89.
- Wood, Albert G., Jr., assignor to Henry Ford Hospital, Detroit, Mich. Water-closet bowl. No. 1,376,907; May 3; v. 286; p. 101.
- Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Magnetic speedometer. No. 1,396,081; Nov. 8.
- Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Revolution-counter resetting. No. 1,400,197; Dec. 13.
- Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Magnetic speedometer. No. 1,400,198; Dec. 13.
- Wood, Arch K., Jeannette, Pa. Valve-operating mechanism. No. 1,372,326; Mar. 22; v. 284; p. 657.
- Wood, Augustus. (See Teas, D. H., and Wood.)
- Wood, Bert B., Yuba, Wis. Propeller. No. 1,365,808; Jan. 18; v. 282; p. 424.
- Wood, Bert B., Minneapolis, Minn. Aeroplane. No. 1,399,913; Dec. 13.
- Wood, Casimir J., San Francisco, Calif. Tenon. No. 1,369,154; Feb. 22; v. 283; p. 588.
- Wood, Casimir J., San Francisco, Calif. Mortise for pipe-joints. No. 1,369,155; Feb. 22; v. 283; p. 588.
- Wood, Casimir J., San Francisco, Calif. Reamer and cutter. No. 1,376,790; May 3; v. 286; p. 77.
- Wood, Charles W., and E. C. Kelly, Hampton, Va. Hydraulic wheel-puller. No. 1,387,674; Aug. 16; v. 289; p. 463.
- Wood, Clarence G., *et al.* (See Davis, Ernest F., assignor.)
- Wood, Clarence G. (See Wood, Frank and C. G.)
- Wood-Craft Company. (See Day, Herbert O., assignor.)
- Wood-Craft Company. (See Grasswick, Carl A., assignor.)
- Wood, E. C., Somerville, and H. J. W. Fay, Westboro, Mass., assignors to Submarine Signal Company, Portland, Me. Diaphragm-mounting. No. 1,401,024; Dec. 20.
- Wood, Edgar J., Elkland, Pa. Automatic train-stop. No. 1,366,233; Jan. 18; v. 282; p. 507.
- Wood, Edith L., Galeton, Pa. Footrest. No. 1,399,837; Dec. 13.
- Wood, Edward L., Detroit, Mich. Means for fastening soft material to sheet metal. No. 1,381,154; June 14; v. 287; p. 212.
- Wood, Edward M., *et al.* (See Connolly, Martin P., assignor.)



- Wood, Elijah G. (See Wood, Leola C. and E. G.)
- Wood, Ethan Y. Z., New York, N. Y. Soap-dispensing appliance. No. 1,369,595; Feb. 22; v. 283; p. 673.
- Wood, Frank E. and C. G., Girard, Pa. Articles secured to wire and securing same. No. 1,397,848; Nov. 22.
- Wood, Frank W., Montclair, N. J. Art of indicating speeds of rotation. No. 1,364,673; Jan. 4; v. 282; p. 121.
- Wood, Frank W., Montclair, N. J., assignor to Chas. Cory & Son, Incorporated, New York, N. Y. Slack-wire compensator for ship's telegraphs. No. 1,387,823; Aug. 16; v. 289; p. 494.
- Wood, Frank W., Montclair, N. J., assignor to Charles Cory & Son, Incorporated, New York, N. Y. Electric indicator. No. 1,396,803; Nov. 15.
- Wood, Frank W., Montclair, N. J., assignor to Charles Cory & Son, Incorporated, New York, N. Y. Indicating mechanism. No. 1,400,199; Dec. 13.
- Wood, Franklyn W., New York, N. Y. Making paper-lined receptacles. No. 1,366,621; Jan. 25; v. 282; p. 628.
- Wood, Franz J., Des Moines, Iowa. Threshing-machine. No. 1,397,347; Nov. 15.
- Wood, Galen, Seattle, Wash. Lawn-mower. No. 1,377,953; May 10; v. 286; p. 358.
- Wood, George. (See Johnson, S. J., and Wood.)
- Wood, George H., Youngstown, Ohio. Secondary attachment-valve. No. 1,368,204; Feb. 8; v. 283; p. 316.
- Wood, George L., Worcester, Mass. Support for expanding reamers. No. 1,378,989; May 24; v. 286; p. 680.
- Wood, George R., assignor of one-half to W. A. Wood, Sr., Montreal, Quebec, Canada. Computing-machine. No. 1,376,850; May 3; v. 286; p. 89.
- Wood, George W. (See Strickland, O. S., and Wood.)
- Wood, Guilford S., Chicago, Ill. Reinforced truck. No. 1,385,514; July 26; v. 288; p. 673.
- Wood, Harry L., Lakewood, Ohio. Battery-post and making a seal. No. 1,401,573; Dec. 27.
- Wood, Harry L., assignor to Premier Warm Air Heater Company, Dowagiac, Mich. Water-pan for hot-air furnaces. No. 1,379,325; May 24; v. 286; p. 744.
- Wood, Henry A., Kingston, Ontario, Canada. Valve-cap. No. 1,397,027; Nov. 15.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Pasting device for web-presses. No. 1,378,304; May 17; v. 286; p. 477.
- Wood, Henry A. W., New York, N. Y., and C. Nordfors, Jersey City Heights, N. J., assignors to Wood Newspaper Machinery Corporation, New York, N. Y. Web-roll tension and supporting device. No. 1,378,305; May 17; v. 286; p. 477.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Insert-printing press. No. 1,392,469; Oct. 4.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Insert feeding and cutting device. No. 1,392,470; Oct. 4.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Machine for delivering magazines and the like. No. 1,392,471; Oct. 4.
- Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Late-news-printing device. No. 1,400,924; Dec. 20.
- Wood, Hubert K., Bayside, assignor to Electric Flasher Company, New York, N. Y. Controller-operating mechanism. No. 1,366,996; Feb. 1; v. 283; p. 23.
- Wood, James, Noblesville, Ind. Shock-absorber. No. 1,391,035; Sept. 20; v. 290; p. 451.
- Wood, James A. (See Guttridge, J. A., and Wood.)
- Wood, James G., San Antonio, Tex. Box-car-door fastener. No. 1,364,970; Jan. 11; v. 282; p. 222.
- Wood, James J., Fort Wayne, Ind., assignor to General Electric Company, Wrayne. No. 1,366,622; Jan. 25; v. 282; p. 628.
- Wood, James J., Fort Wayne, Ind., assignor, by mesne assignments, to Hurley Machine Company, Chicago, Ill. Power-drive for washing-machines. No. 1,396,082; Nov. 8.
- Wood, Jesse N., Venice, Ill., and F. Roewekamp, St. Louis, Mo. Air and fuel heater for automobile-motors and other oil-engines. No. 1,391,709; Sept. 27; v. 290; p. 661.
- Wood, John, Manufacturing Company. (See McQuirns, Stewart, assignor.)
- Wood, John, assignor to R. H. Chitwood, Pembroke, Va. Ointment. No. 1,383,896; July 5; v. 288; p. 132.
- Wood, John C., Bellaire, Ohio. Door-closer. No. 1,400,125; Dec. 13.
- Wood, John W., Covington, Tenn. Hoe. No. 1,374,795; Apr. 12; v. 285; p. 315.
- Wood, Joseph H., Blanks, La. Pulling apparatus for automobiles. No. 1,388,683; Aug. 23; v. 289; p. 719.
- Wood, Joseph P., Columbus, Ga. Universal joint. No. 1,381,155; June 14; v. 287; p. 212.
- Wood, Leola C. and E. G., Rebecca, Ga. Dish-washing machine. No. 1,395,324; Nov. 1.
- Wood, Leonard E., Valleyfield, Quebec, Canada. Armature-winding machine. No. 1,375,745; Apr. 26; v. 285; p. 591.
- Wood, Lin A. (See Wasson, J. P., Wood, and Nelson.)
- Wood, Louis E., Farrell, Pa. Tape-measure. No. 1,383,587; July 5; v. 288; p. 68.
- Wood, Louis E., Farrell, Pa. Window-fixture. No. 1,391,599; Sept. 20; v. 290; p. 565.
- Wood, Louis E., Farrell, Pa. Oil and grease gun. No. 1,393,001; Oct. 11.
- Wood, Marion E. (See Cochran, M. L., and Wood.)
- Wood, Merritt D., Clark, S. D. Cable-support. No. 1,384,583; July 12; v. 288; p. 324.
- Wood Newspaper Machinery Corporation. (See Wood, H. A. W., and Nordfors, assignors.)
- Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
- Wood, Pierre O., Memphis, Tenn., and H. L. Norman, Springfield, Mo. Speed-control device. No. 1,397,194; Nov. 15.
- Wood, Pinckney A., Brooklyn, N. Y. Alarm-whistle. No. 1,365,959; Jan. 18; v. 282; p. 454.
- Wood Postal Boxes Limited. (See Usher, H., and Gooch, assignors.)
- Wood, Ray W., assignor of one-half to Bennie O. Rutter, Richwood, Ohio. Tire. No. 1,365,434; Jan. 11; v. 282; p. 311.
- Wood, Robert, New York, N. Y. Force-feed lubricator. No. 1,371,289; Mar. 15; v. 284; p. 400.
- Wood, Robert, New York, N. Y. Vacuum-breaker. No. 1,391,600; Sept. 20; v. 290; p. 566.
- Wood, Sanford H., Los Angeles, Calif. Celluloid. No. 1,364,342; Jan. 4; v. 282; p. 57.
- Wood and Selick. (See Biggs, Edward, assignor.)
- Wood, Walter C., Cranston, R. I. Bracelet and the like. No. 1,394,877; Oct. 25.
- Wood, Walter J., Newark, and W. G. Sand, Irvington, N. J. Game apparatus. No. 1,389,611; Sept. 6; v. 290; p. 10.
- Wood, Walter W., Seattle, Wash. Gravity-hinge. No. 1,393,190; Oct. 11.
- Wood, William A., Sr. (See Wood, George R., assignor.)
- Wood, William A., New York, N. Y., assignor to Holyoke Plush Company. Automobile blanket or robe. No. 1,364,601; Jan. 4; v. 282; p. 106.
- Wood, William D., Seattle, Wash. Photographic-printing machine. No. 1,384,372; July 12; v. 288; p. 280.
- Wood, William G., Berkeley, assignor to Berkeley Light Corporation, San Francisco, Calif. Headlight-mounting. No. 1,374,622; Apr. 12; v. 285; p. 282.
- Wood, William G., assignor to Berkeley Light Corporation, San Francisco, Calif. Headlight. No. 1,395,026; Oct. 25.
- Wood, William G., assignor to Berkeley Light Corporation, San Francisco, Calif. Headlight. No. 1,400,926; Dec. 20.
- Wood, William H., Darien, Conn. Outlet-box. No. 1,392,038; Sept. 27; v. 290; p. 729.
- Wood, William H., Richmond, Calif. Lubricating composition. No. 1,398,759; Nov. 29.
- Wood, William M., New Brighton, and H. Reynolds, assignors to R. Hoe and Co., New York, N. Y. Plate-finishing machine. No. 1,385,416; July 26; v. 288; p. 652.
- Wood, William M., New Brighton, assignor to R. Hoe and Co., New York, N. Y. Blackleading-machine. No. 1,400,589; Dec. 20.
- Wood, William P., assignor to Jenckes Spinning Company, Pawtucket, R. I. Bobbin-holding means. No. 1,385,962; July 26; v. 288; p. 763.
- Wood, William T., St. Louis, Mo. Conveyer. No. 1,396,804; Nov. 15.
- Wood, William W. (See Muschewske, E., and Wood.)
- Woodard, William E., Lima, Ohio. Geared locomotive. No. 1,376,061; Apr. 26; v. 285; p. 652.
- Woodard, William E., Lima, Ohio. Lateral-thrust-bearing appliance for railway-axles. No. 1,380,456; June 7; v. 287; p. 25.
- Woodard, William E., Forest Hills, N. Y., and H. W. Snyder, Lima, Ohio. Driving-wheel center. No. 1,380,457; June 7; v. 287; p. 35.
- Woodard, William E., Forest Hills, N. Y., assignor to Commonwealth Steel Company, St. Louis, Mo. Trailer-truck for locomotives. No. 1,381,532; June 14; v. 287; p. 281.
- Woodberry, George B., Glendale, Calif. Irrigating system and applying same. No. 1,401,386; Dec. 27.
- Woodberry, John H., U. S. Army. Grenade or bomb. No. 1,366,623; Jan. 25; v. 282; p. 628.
- Woodberry, John H., U. S. Army. Delay-action mechanism for fuses. No. 1,376,908; May 3; v. 286; p. 101.
- Woodbridge, Joseph L., Philadelphia, Pa. Storage-battery container. No. 1,364,469; Jan. 4; v. 282; p. 82.
- Woodbridge, Joseph L., Philadelphia, Pa. Railway signal system. No. 1,368,530; Feb. 15; v. 283; p. 428.
- Woodbridge, Richard G., Jr., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Cleaning screens. No. 1,367,111; Feb. 1; v. 283; p. 45.
- Woodbridge, Richard G., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making propellant powder. No. 1,379,073; May 24; v. 286; p. 698.
- Woodbridge, Richard G., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Propellant bulk smokeless powder. No. 1,390,740; Sept. 13; v. 290; p. 329.
- Woodbridge, Richard G., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making propellant powder. No. 1,396,493; Nov. 8.
- Woodbury, Clifford A., Middleton town township, Delaware county, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Forming bursting charge. No. 1,382,260; June 21; v. 287; p. 478.



## Alphabetical list of patentees—Continued.

- Woodbury, Homer C., assignor to J. Scheminger, Jr., Providence, R. I. Circuit-controlling apparatus. No. 1,388,541; Aug. 23; v. 289; p. 692.
- Woodbury, John E., Worcester, Mass. Sheet-feeding machine. No. 1,374,130; Apr. 5; v. 285; p. 145.
- Woodbury, John E., Worcester, Mass. Automatic delivery for die-presses. No. 1,374,131; Apr. 5; v. 285; p. 146.
- Woodcock, Frederick, Duanesburg, N. Y. Spike-puller. No. 1,396,615; Nov. 8.
- Woodcock, Willard J., Brooklyn, N. Y. Advance and retard fuel-oil pump. No. 1,375,746; Apr. 26; v. 285; p. 591.
- Wooddell, George C., and H. C. Reeser, Dayton, Ohio. Power agricultural implement. No. 1,389,612; Sept. 6; v. 290; p. 10.
- Woodford, Frank E. (See Weber, B. F., and Woodford.)
- Woodhull, Llewellyn S., Detroit, Mich., assignor, by mesne assignments, to The Automotive Corporation, Toledo, Ohio. Line-controlled tractor. No. 1,400,494; Dec. 13.
- Woodin, Ernest C., Chicago, Ill. Breeze-arrester and the like. No. 1,401,224; Dec. 27.
- Woodland, Bert L., Muskegon, Mich. Piston construction. No. 1,373,989; Apr. 5; v. 285; p. 120.
- Woodland, Bert L., Muskegon, Mich. Piston. No. 1,381,047; June 7; v. 287; p. 139.
- Woodland, Percy T., New York, N. Y. Cane-harvester. No. 1,365,213; Jan. 11; v. 282; p. 269.
- Woodland, William C. (See Steere, F. W., and Woodland.)
- Woodley, James C., Evanston, Ill. Surface-embossed roofing-sheet and the like. No. 1,366,146; Jan. 18; v. 282; p. 489.
- Woodley, James C., Evanston, Ill. Surface-finishing of bituminous-composition roofing. No. 1,384,110; July 12; v. 288; p. 226.
- Woodling, Miner D., Kansas City, Mo. Radiator-bracket. No. 1,393,874; Oct. 18.
- Woodman, George A. (See Steger, August, assignor.)
- Woodman, George A., Chicago, Ill. Railway-car end. No. 1,392,472; Oct. 4.
- Woodman, George A., Chicago, Ill. Hand-brake for railway-cars. No. 1,394,058; Oct. 18.
- Woodmansee, John F., Milwaukee, Wis. Title-record. No. 1,386,216; Aug. 2; v. 289; p. 51.
- Woodmansee, Roy H., Denver, Colo. Glare-shield attachment for automobile-windshields. No. 1,388,446; Aug. 23; v. 289; p. 675.
- Woodridge, John B., Kansas City, Mo. Well-drilling apparatus. No. 1,370,677; Mar. 8; v. 284; p. 221.
- Woodruff, Albert N., New York, N. Y. Copy-holder. No. 1,383,897; July 5; v. 288; p. 132.
- Woodruff, Albert N., New York, N. Y. Copy-holder. No. 1,389,411; Aug. 30; v. 289; p. 919.
- Woodruff, Alonzo, Auburn, N. Y. Inking-pad. No. 1,381,156; June 14; v. 287; p. 212.
- Woodruff, Alvie C., Burns, Oreg. Check-protector. No. 1,377,651; May 10; v. 286; p. 299.
- Woodruff, Charles W., and R. H. Pausch, Columbus, Ohio. Purifying graphite and carbon. No. 1,380,458; June 7; v. 287; p. 25.
- Woodruff, Clayton E., et al. (See Bethel, Harry L., assignor.)
- Woodruff, Dwight B., Olathe, Colo. Canoe-trailer for motor-vehicles. No. 1,376,496; May 3; v. 286; p. 22.
- Woodruff, John C., New York, N. Y. Activating carbon. No. 1,368,987; Feb. 15; v. 283; p. 515.
- Woodruff, Sidney H. (See Giles, L., and Woodruff.)
- Woods, Alexander E. (See Blair, William J., assignor.)
- Woods, Charles S., Indianapolis, Ind. Window-ventilator. No. 1,376,184; Apr. 26; v. 285; p. 675.
- Woods, Clinton E., Waterbury, Conn. Talking-machine. No. 1,396,083; Nov. 8.
- Woods, Ernest C., Galesburg, Ill. Wrench. No. 1,364,600; Jan. 4; v. 282; p. 106.
- Woods, John W., Walla Walla, Wash. Bucket elevator. No. 1,376,989; May 3; v. 286; p. 116.
- Woods, Leonard, St. Louis, Mo. Trousers-supporter. No. 1,385,103; July 19; v. 288; p. 513.
- Woods, Leonard, St. Louis, Mo. Trousers-supporter. No. 1,392,241; Sept. 27; v. 290; p. 768.
- Woods, Norman E. (See Lassiter, Columbus K., assignor.)
- Woods, Norman E., Paterson, N. J. Twist-drill. No. 1,384,733; July 12; v. 288; p. 355.
- Woods, Norman E., Paterson, N. J., assignor to W. H. Foster, New York, N. Y. Sheet spacing and punching machine. No. 1,397,849; Nov. 22.
- Woods, Ora M., Cliffs, Idaho. Stock-watering appliance. No. 1,366,234; Jan. 18; v. 282; p. 507.
- Woods, Rebecca. (See Thompson, Mabel L., assignor.)
- Woods, Sophie L. (See Perry, Hubert M., assignor.)
- Woodside, Walter B. (See Mecker, E. C., and Woodside.)
- Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Electrically-heated bake oven. No. 1,378,080; May 17; v. 286; p. 435.
- Woodson, John B., Fayette, Mo. Fence-clamp. No. 1,377,540; May 10; v. 286; p. 277.
- Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
- Woodstock Typewriter Company. (See Pruszyński, A. J., and Ebert, assignors.)
- Woodville, Richard C., assignor to A. Ryner, London, England. Spanner. No. 1,378,160; May 17; v. 286; p. 450.
- Woodward, Alva W., assignor to The Firestone Steel Products Company, Akron, Ohio. Demountable rim. No. 1,375,435; Apr. 19; v. 285; p. 500.
- Woodward, Arthur C., Cranford, assignor to The A. & F. Brown Company, Elizabethport, N. J. Shaft-coupling. No. 1,393,064; Oct. 11.
- Woodward, Arthur H., Altadena, Calif., assignor, by mesne assignments, to Johnson Fare Box Company, Chicago, Ill. Motor-driven coin-register. No. 1,372,857; Mar. 29; v. 284; p. 801.
- Woodward, B. E., administrator. (See Slocum, Leslie G. S.)
- Woodward Differential Gear Co. (See Woodward, Irving C., assignor.)
- Woodward, Eugene A. (See Woodward, Irving C., assignor.)
- Woodward, Frederick S., Richmond Hill, N. Y. Electrolytic process. No. 1,374,541; Apr. 12; v. 285; p. 266.
- Woodward, Irving C., assignor to G. R. Turley, Chicago, Ill. Nut-lock. No. 1,368,087; Feb. 8; v. 283; p. 292.
- Woodward, Irving C., assignor to E. A. Woodward, Chicago, Ill. Locking screw-thread. No. 1,369,156; Feb. 22; v. 283; p. 588.
- Woodward, Irving C., assignor to Woodward Differential Gear Co., Chicago, Ill. Differential gearing. No. 1,377,380; May 10; v. 286; p. 248.
- Woodward, James W. (See Lynch, J. E., and Woodward.)
- Woodward, Norman C., Hornell, N. Y. Spring-tire. No. 1,390,948; Sept. 13; v. 290; p. 371.
- Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,370,772; Mar. 8; v. 284; p. 239.
- Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Pawl-and-ratchet mechanism. No. 1,371,590; Mar. 15; v. 284; p. 480.
- Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,371,591; Mar. 15; v. 284; p. 460.
- Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,375,764; Apr. 26; v. 285; p. 594.
- Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Box or receptacle. No. 1,378,508; May 17; v. 286; p. 515.
- Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,380,455; June 7; v. 287; p. 25.
- Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Tension-regulating device for springs. No. 1,388,230; Aug. 23; v. 289; p. 630.
- Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,391,155; Sept. 20; v. 290; p. 476.
- Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,394,599; Oct. 25.
- Woodward, Oscar, Babylon, assignor to Remington Accounting Machine Corporation, New York, N. Y. Computing-machine. No. 1,401,225; Dec. 27.
- Woodward, Samuel B., Trenton, N. J. Guard for punching-machines. No. 1,385,237; July 19; v. 288; p. 540.
- Woodward, Walter R., Wilkesburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electric regulator. No. 1,386,045; Aug. 2; v. 289; p. 17.
- Woodward, Walter S., Great Falls, Mont. Signaling device. No. 1,368,677; Feb. 15; v. 283; p. 456.
- Woodworth, Charles B., Niagara Falls, assignor to Woodworth Manufacturing Corporation, Binghamton, N. Y. Spring-cover. No. 1,380,858; June 7; v. 287; p. 102.
- Woodworth, Donald C., Auburn, Me. Tire-opener. No. 1,388,909; Aug. 30; v. 289; p. 819.
- Woodworth, Howard P., Bay City, Mich. Oiling system. No. 1,393,875; Oct. 18.
- Woodworth Manufacturing Corporation. (See Woodworth, Charles B., assignor.)
- Woffert, Herbert A., Swampscott, assignor to Thomson Electric Welding Company, Boston, Mass. Transformer secondary connection for electrical metal-working apparatus. No. 1,375,765; Apr. 26; v. 285; p. 595.
- Woolard, William F., et al. (See Hampden, Wellesley R., assignor.)
- Woolard, William F., Wauwatosa, Wis. Corrugated metal end for railway-cars. No. 1,398,249; Nov. 29.
- Woodridge, John B., Kansas City, Mo. Well-drilling device. No. 1,376,302; Apr. 26; v. 285; p. 698.
- Woolery, Horace E., St. Paul, Minn. Driving mechanism. No. 1,400,200; Dec. 13.
- Woolley, John C., Moscow, Idaho. Tractor. No. 1,385,417; July 26; v. 288; p. 652.
- Woolfolk, Arthur R., Jr., New York, N. Y., assignor to Square D Company, Detroit, Mich. Quick-break double-throw switch. No. 1,400,337; Dec. 13.
- Woolhiser, Jay H., Elmhurst, N. Y. Favor. No. 1,377,741; May 10; v. 286; p. 316.
- Woolley, Ernest L., Providence, R. I. Oil-burner. No. 1,387,877; Aug. 16; v. 289; p. 504.
- Woolley, Horace M., Jr., and D. J. McKean, Alameda, Calif., said McKean assignor to said Woolley. Self-steering vehicle. No. 1,387,091; Aug. 9; v. 289; p. 297.
- Woolley, Rollin, Carlton, Oreg. Bunk. No. 1,390,852; Sept. 13; v. 290; p. 351.
- Woolner, Hugh. (See Jenkins, H. C., and Woolner.)



*Alphabetical list of patentees—Continued.*

- Woolsey, Nicholas I., New York, N. Y. Dental-cotton holder and waste-receiver. No. 1,394,391; Oct. 18.
- Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,382,946; June 28; v. 287; p. 663.
- Woolson, Marie, Chicago, Ill. Folding warbrobe. No. 1,375,883; Apr. 26; v. 285; p. 617.
- Woodson, Thomas D., deceased, Richmond, Va.; S. E. Marsch, administratrix. Ash-pan. No. 1,365,435; Jan. 11; v. 282; p. 312.
- Woolwine Metal Products Company. (See Frey, Sigmund, assignor.)
- Woore, Walter B., New York, N. Y. Secondary valve. No. 1,383,180; June 28; v. 287; p. 707.
- Woore, Walter B., New York, N. Y. Secondary valve. No. 1,383,272; June 28; v. 287; p. 724.
- Wooster, Warren W., Berlin, N. J. Luggage-carrier for vehicles. No. 1,370,253; Mar. 1; v. 284; p. 95.
- Worcester, Alfred M., Cincinnati, Ohio. Animal-trap for catching rats, mice, and the like. No. 1,379,326; May 24; v. 286; p. 745.
- Worcester, James, Waltham, Mass. Propelling mechanism for vessels. No. 1,380,283; May 31; v. 286; p. 999.
- Worcester Machine Works. (See Morgan, Ralph L., assignor.)
- Worcester Metal Goods Company. (See Smith, Clarence E., assignor.)
- Worcester Office Supplies Company. (See Knight, Arthur O., assignor.)
- Worcester Pressed Aluminum Company. (See Baker, Mark, assignor.)
- Word, William W., Piedmont, Calif. Corner-trowel. No. 1,383,688; July 5; v. 288; p. 89.
- Worgan, Amos N. (See Worgan, Henry H., assignor.)
- Worgan, Henry H., assignor of one-half to A. N. Worgan, Carnegie, Pa. Toy. No. 1,386,545; Aug. 2; v. 289; p. 113.
- Work, Samuel D., Jr., New York, N. Y. Current-distributor. No. 1,386,980; Aug. 9; v. 289; p. 274.
- Workman, Aaron G., Hot Springs, S. D. Mud-shoe. No. 1,373,042; Mar. 29; v. 284; p. 838.
- Workman, Author D., Knoxville, Tenn. Culinary implement. No. 1,388,083; Aug. 16; v. 289; p. 544.
- Workman, Frances W., Los Angeles, Calif. Kitchen utensil. No. 1,383,779; July 5; v. 288; p. 109.
- Workman, Harold, Glasgow, Scotland, and S. J. Cox, London, England. Cinematograph apparatus and intermittent-feed mechanism therefor. No. 1,372,733; Mar. 29; v. 284; p. 776.
- Workman, Myrtle. (See Workman, Ross F. and M.)
- Workman, Ross A., Springfield, Mo. Power transmission. No. 1,378,751; May 17; v. 286; p. 563.
- Workman, Ross F. and M., York, Pa. Fastening and holding device. No. 1,369,513; Feb. 22; v. 283; p. 657.
- Workman, William H., Beverly, Mass. Game apparatus. No. 1,371,831; Mar. 15; v. 284; p. 505.
- Worley, Clarence G., Marietta, Ga. Automobile-headlight. No. 1,389,726; Sept. 6; v. 290; p. 33.
- Worman, Harry L. (See Wood, P. O., and Worman.)
- Worman, Oscar E., Minneapolis, Minn. Artificial limb. No. 1,383,364; July 5; v. 288; p. 22.
- Worman, Oscar E., Minneapolis, Minn. Artificial limb. No. 1,383,365; July 5; v. 288; p. 22.
- Worobow, David, Chicago, Ill. Foldable pushmobile. No. 1,387,675; Aug. 16; v. 289; p. 463.
- Woronzoff, Dionysie, New York, N. Y. Advance-order device. No. 1,381,609; June 14; v. 287; p. 295.
- Worrall, Charles L., Pasadena, Calif. Air-washing device. No. 1,377,381; May 10; v. 286; p. 248.
- Worsham, Louis W., Houston, Tex. Draft attachment for motor-vehicles. No. 1,378,575; May 17; v. 286; p. 528.
- Worsley, Ernest, Blackley, assignor to G. F. Wilde Limited, Stockport, England. Machine for granulating moist material. No. 1,390,256; Sept. 6; v. 290; p. 139.
- Worster, J. W., et al. (See Wisenart, Oscar H., assignor.)
- Wortelmann, Gustav A., New York, N. Y. Fireproof paint. No. 1,397,028; Nov. 15.
- Worth Bros. (See Worth, John S., assignor.)
- Worth Brothers Corporation. (See Worth, John S., assignor.)
- Worth, Charles B., Chicago, Ill. Machine for making molds. No. 1,382,041; June 21; v. 287; p. 437.
- Worth, George E., Rochester, N. Y. Metal wheel. No. 1,388,910; Aug. 30; v. 289; p. 819.
- Worth, James M., Chicago, Ill. Traction mechanism. No. 1,376,851; May 3; v. 286; p. 90.
- Worth, James M., Chicago, Ill. Traction mechanism. No. 1,390,324; Sept. 13; v. 290; p. 245.
- Worth, John S., Coatesville, assignor to Worth Brothers Corporation, Claymont, Del. Rolling-mill. No. 1,373,850; Apr. 5; v. 285; p. 91.
- Worth, John S., assignor to Worth Bros. Coatesville, Pa. Continuous heating-furnace. No. 1,374,132; Apr. 5; v. 285; p. 146.
- Worth, John S., Coatesville, Pa., assignor to Worth Brothers Corporation, Claymont, Del. Roller transferable. No. 1,390,853; Sept. 13; v. 290; p. 351.
- Worth, Leo F., South Bend, Ind. Razor-strop. No. 1,391,156; Sept. 20; v. 290; p. 476.
- Worth, Lewis A., Merton, Wis. Snow-plow. No. 1,387,576; Aug. 16; v. 289; p. 444.
- Worthington, Amasa, Brooklyn, N. Y. Insulating material or construction. No. 1,366,147; Jan. 18; v. 282; p. 490.
- Worthington, Charles C., Dunnfield, N. J., assignor to Shawnee Mower Company, New York, N. Y. Gang lawn-mower. No. 1,398,481; Nov. 29.
- Worthington, Charles C., Dunnfield, N. J. Building-block. No. 1,400,709; Dec. 20.
- Worthington, Fannie M. (See Bruce, W. J., and Worthington.)
- Worthington, George C., Elyria, Ohio. Golf-ball and similar article. No. 1,369,868; Mar. 1; v. 284; p. 22.
- Worthington Pump and Machinery Corporation. (See Bösch, Frederick W., assignor.)
- Worthington Pump and Machinery Corporation. (See Decrow, David A., assignor.)
- Worthington Pump and Machinery Corporation. (See Haerberlein, Max, assignor.)
- Worthington Pump and Machinery Corporation. (See Lucke, Charles E., assignor.)
- Worthington Pump and Machinery Corporation. (See Phillips, Will H., assignor.)
- Worthington, Tillman B., Scotland, Pa. Demountable rim-lock. No. 1,371,832; Mar. 15; v. 284; p. 506.
- Wortman, Elbert B. M., assignor to Yawman and Erbe Mfg. Company, Rochester, N. Y. Book or folder. No. 1,383,366; July 5; v. 288; p. 22.
- Wortmann, Franz E., assignor to Kentucky Derby Co., Inc., New York, N. Y. Game. No. 1,370,773; Mar. 8; v. 284; p. 239.
- Wortman, William F., Salisbury, New Brunswick, Canada. Nut-lock. No. 1,381,610; June 14; v. 287; p. 295.
- Worton, Samuel G., Duquesne, Pa. Slag-pocket floor. No. 1,365,436; Jan. 11; v. 282; p. 312.
- Wosinski, Bert, assignor to Loudon Manufacturing Company, Grand Rapids, Mich. Dispensing-showcase. No. 1,379,793; May 31; v. 286; p. 906.
- Wotton, James A. (See Pugh, H. W., and Wotton.)
- Wotton, James A., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. No. 1,367,727; Feb. 8; v. 283; p. 225.
- Wotton, James A., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling device. No. 1,378,990; May 24; v. 286; p. 681.
- Wotton, James A., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Contact device. No. 1,400,126; Dec. 13.
- Woyevodsky, Nicholas, London, England. Aircraft. No. 1,391,355; Sept. 20; v. 290; p. 516.
- Woznicki, Casmer F., South Bend, Ind. Feeding attachment for printing-presses. No. 1,372,583; Mar. 22; v. 284; p. 707.
- Wraith, George A., Zanesville, Ohio. Game apparatus. No. 1,387,577; Aug. 16; v. 289; p. 444.
- Wray, Albert B., Shreveport, La. Journal-bearing. No. 1,366,856; Jan. 25; v. 282; p. 674.
- Wray, Charles, Croydon, assignor to himself and C. J. Stanley, London, England. Gas-free, electric radiators, and the like. No. 1,398,663; Nov. 29.
- Wrenn, John O., Portland, Oreg. Humidizing attachment for hot-air furnaces. No. 1,389,804; Sept. 6; v. 290; p. 49.
- Wright, Achsa C., Superior, Wis. Rug-machine. No. 1,366,624; Jan. 25; v. 282; p. 629.
- Wright, Alfred G., Philadelphia, Pa. Dental amalgam-machine. No. 1,369,209; Feb. 22; v. 283; p. 598.
- Wright, Asa, Long Beach, Calif. Adjustable wire brush. No. 1,382,042; June 21; v. 287; p. 438.
- Wright, Ashley L., Newton, Mass. Gage-tube protector and illuminator. No. 1,401,574; Dec. 27.
- Wright-Austin Company. (See Hinchey, Harry J., assignor.)
- Wright, Bert R., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Means for excluding dirt and liquid from bearings and driving mechanism of centrifugal machines. No. 1,386,148; Aug. 2; v. 289; p. 37.
- Wright, Carl J., Toledo, Ohio. Gas-furnace. No. 1,374,796; Apr. 12; v. 285; p. 315.
- Wright, Charles B., Jersey City, N. J., assignor of one-half to E. G. Nelson, New York, N. Y. Composing-stick. No. 1,381,888; June 14; v. 287; p. 349.
- Wright, Charles E., Meade county, Ky. Motor-vehicle. No. 1,366,235; Jan. 18; v. 282; p. 508.
- Wright, Charles F. (See Wright, Jacob P. and C. F.)
- Wright, Charles M. (See Wright, William C. and C. M.)
- Wright, Charles S., West Stoughton, Mass. Shuttle. No. 1,394,878; Oct. 25.
- Wright, Chester D., Denver, Colo. Bicycle-pedal. No. 1,393,256; Oct. 11.
- Wright, Clair G., Kansas City, Mo. Hose-support. No. 1,382,706; June 28; v. 287; p. 617.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Underreamer. No. 1,387,032; Aug. 9; v. 289; p. 284.
- Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Chain-wrench. No. 1,400,398; Dec. 13.
- Wright, Cuthbert W. (See Barker, William H., assignor.)
- Wright, Dudley, Bankfield, Ulverston, England. Liquid-fuel burner. No. 1,389,412; Aug. 30; v. 289; p. 919.
- Wright, Edward, Dayton, Ohio. Core for curing tires. No. 1,370,391; Mar. 1; v. 284; p. 120.
- Wright, Edward M., Madison Heights, Va. Plow-point pattern-plate. No. 1,365,214; Jan. 11; v. 282; p. 269.
- Wright, Ernest N. (See Wright, Leon G., assignor.)



*Alphabetical list of patentees—Continued.*

- Wright, Frank, assignor to Arcadia Trailer Corporation, Newark, N. Y. Draft means for vehicles. No. 1,365,013; Jan. 11; v. 282; p. 231.
- Wright, Frederick E., Washington, D. C. Eyepiece-prism. No. 1,370,938; Mar. 8; v. 284; p. 270.
- Wright, George H., Spokane, Wash. Planter. No. 1,385,938; July 26; v. 288; p. 758.
- Wright, George M., London, England, assignor, by mesne assignments, to Radio Corporation of America. Wireless-telegraph receiver. No. 1,394,600; Oct. 25.
- Wright, George M., London, England, assignor, by mesne assignments, to Radio Corporation of America. Thermionic device. No. 1,394,601; Oct. 25.
- Wright, George W., Lapel, and R. W. Nichols, Kokomo, Ind. Air-pump. No. 1,380,878; June 7; v. 287; p. 106.
- Wright, H. A., *et al.* (See Hachmann, Frederick, assignor.)
- Wright, Hamilton M., Jr., New Rochelle, N. Y. Gas-engine cut-out muffler. No. 1,375,621; Apr. 19; v. 285; p. 535.
- Wright, Harry J., Des Moines, Iowa. Oiling device for internal-combustion-engine timers. No. 1,397,941; Nov. 22.
- Wright, Harry T., Rockland, and W. A. Brown, Brockton, Mass. Last. No. 1,370,574; Mar. 8; v. 284; p. 200.
- Wright, Henry, Fresno, Calif. Internal-combustion engine. No. 1,398,354; Nov. 29.
- Wright, Herbert A., Clarence, Mo., and C. W. Kennedy, Benton, Mont. Auto signaling device. No. 1,379,503; May 24; v. 286; p. 778.
- Wright, Isaac H., Salford, Manchester, assignor to Smith & Coventry Limited, Salford, England. Adjustable belt-guide for drilling-machines. No. 1,380,623; June 7; v. 287; p. 56.
- Wright, Isaac H., assignor to Smith & Coventry, Limited, Salford, Manchester, England. Drilling-machine. No. 1,385,293; July 10; v. 288; p. 551.
- Wright, Jacob P., Barborton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Box-filling machine. No. 1,399,039; Dec. 6.
- Wright, Jacob P., Barborton, and C. F. Wright, Akron, Ohio, assignors to The Diamond Match Company, Chicago, Ill. Carrier for card-match machines. No. 1,400,338; Dec. 13.
- Wright, James C., Colorado Springs, Colo. Rock-drill. No. 1,393,257; Oct. 11.
- Wright, Jane A., Bordentown, N. J. Bucket clothes-washer. No. 1,395,783; Nov. 1.
- Wright, Jefferson G., Connell, assignor of one-third to W. F. Steinmeyer, Eltopia, Wash. Bridle-bit. No. 1,375,197; Apr. 19; v. 285; p. 455.
- Wright, John G., Tyler, Tex. Adjustable end die. No. 1,367,849; Feb. 8; v. 283; p. 248.
- Wright, John G., Tyler, Tex. Adjustable flat die. No. 1,377,954; May 10; v. 286; p. 359.
- Wright, John G., assignor to The D. W. Bosley Co., Chicago, Ill. Drawer-slide. No. 1,396,084; Nov. 8.
- Wright, John G., and H. F. Bennett, Chicago, Ill.; said Bennett assignor to said Wright. Door-strip. No. 1,396,085; Nov. 8.
- Wright, John W. (See McIlwain, H. A., Walton, and Wright.)
- Wright, Joseph E., Lankershim, Calif. Dispenser for fruit-jars and the like. No. 1,373,695; Apr. 5; v. 285; p. 61.
- Wright, Joseph H., Henderson, Tex. Rolling fender. No. 1,376,910; May 3; v. 286; p. 101.
- Wright, Joseph H., Henderson, Tex. Automobile-puller. No. 1,394,703; Oct. 25.
- Wright, Joseph L., Cleveland, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y. Semi-automatic telephone-exchange system. No. 1,383,588; July 5; v. 288; p. 68.
- Wright, Kenneth, assignor of one-half to Ruben H. Williams, Flint, Mich. Manufacturing battery-plates. No. 1,381,387; June 14; v. 287; p. 254.
- Wright, Kirk K., assignor of one-half to R. G. Wright, Buffalo, N. Y. Pasteurizer. No. 1,377,742; May 10; v. 286; p. 316.
- Wright, Kirk K., Buffalo, and R. N. Cundall, Blasdel, assignors to R. G. Wright & Co., Buffalo, N. Y. Bottle filling and closing machine. No. 1,386,299; Aug. 2; v. 289; p. 67.
- Wright, Leo, St. Catharines, Ontario, Canada. Twine-holder. No. 1,378,752; May 17; v. 286; p. 563.
- Wright, Leon G., Preston, assignor of one-half to E. N. Wright, Choptank, Md. Vehicle-headlight. No. 1,398,823; Nov. 29.
- Wright, Lucy W., Elkhart, Ind. Vehicle. No. 1,393,876; Oct. 18.
- Wright, Parvin. (See Gerrard, A. J., and Wright.)
- Wright, Parvin, Chicago, Ill. Wire-tying machine. No. 1,389,413; Aug. 30; v. 289; p. 919.
- Wright, Parvin, assignor to A. J. Gerrard, Chicago, Ill. Hand-operated wire-tying machine. No. 1,401,025; Dec. 20.
- Wright, Philip I., Oakland, Calif. Steam-gage. No. 1,387,676; Aug. 16; v. 289; p. 464.
- Wright, R. G., & Co. (See Wright, K. K., and Cundall, assignors.)
- Wright, Ralph G. (See Wright, Kirk K., assignor.)
- Wright, Rea P., Washington, D. C. Feeding device for clothes-wringers. No. 1,368,872; Feb. 15; v. 283; p. 494.
- Wright, Rea P., Washington, D. C. Positive pressure-release for clothes-wringers. No. 1,368,873; Feb. 15; v. 283; p. 494.
- Wright, Richard, Philadelphia, Pa. Air-pump. No. 1,396,494; Nov. 8.
- Wright, Robert, Cleveland, Ohio. Metal wheel. No. 1,366,047; Jan. 18; v. 282; p. 471.
- Wright, Robert, Cleveland, Ohio. Automobile-wheel rim and tire. No. 1,397,996; Nov. 22.
- Wright, Robert L., Los Angeles, Calif. Projectile. No. 1,374,703; Apr. 12; v. 285; p. 298.
- Wright, Robert L., Los Angeles, Calif. Shell and projectile. No. 1,374,704; Apr. 12; v. 285; p. 298.
- Wright, Robert L., Los Angeles, Calif. Projectile. No. 1,374,705; Apr. 12; v. 285; p. 298.
- Wright, Robert L., Los Angeles, Calif. Projectile and bomb combined. No. 1,374,706; Apr. 12; v. 285; p. 298.
- Wright, Robert L., Los Angeles, Calif. Shell and projectile. No. 1,374,707; Apr. 12; v. 285; p. 298.
- Wright, Roland T., assignor of one-half to J. H. Buncher, St. Louis, Mo. Tobacco-pipe. No. 1,401,226; Dec. 27.
- Wright, Ross P., assignor to Reed Manufacturing Company, Erie, Pa. Collar-ironing machine. No. 1,373,580; Apr. 5; v. 285; p. 39.
- Wright, Samson D., Cleveland Heights, Ohio. Furnace-charging car. No. 1,364,343; Jan. 4; v. 282; p. 57.
- Wright, Samson D., Cleveland Heights, Ohio. Driving mechanism. No. 1,386,667; Aug. 9; v. 289; p. 210.
- Wright, Samuel E., Ranger, Tex. Portable forge. No. 1,369,869; Mar. 1; v. 284; p. 22.
- Wright, Sheldon T., assignor to Cluett, Peabody & Co. Inc., Troy, N. Y. Soft-fold collar. No. 1,400,339; Dec. 13.
- Wright, Thomas, Grandview, Manitoba, Canada. Makings-tobacco pouch. No. 1,389,175; Aug. 30; v. 289; p. 872.
- Wright, Thomas D., Springville, Ala. Concrete tie. No. 1,381,048; June 7; v. 287; p. 139.
- Wright, Thomas H., Los Angeles, Calif. Making potash alum. No. 1,396,675; Nov. 8.
- Wright, Thomas M., Bertram, Tex. Resilient hub for wheels. No. 1,390,226; Sept. 6; v. 290; p. 134.
- Wright, Wallace C., W. J. Young, and G. B. Grover, Lynn, assignors to Basler Machinery Company, Everett, Mass. Leather-tempering belt. No. 1,370,392; Mar. 1; v. 284; p. 120.
- Wright, Walter E., Cleveland, Ohio. Lead-flattening product for lead paints. No. 1,370,575; Mar. 8; v. 284; p. 200.
- Wright, William, Texarkana, Tex. Inlet-control valve for flush-tanks. No. 1,368,088; Feb. 8; v. 283; p. 292.
- Wright, William C., Salem, and C. M. Wright, Lisbon, Ohio. Resilient vehicle-wheel. No. 1,400,844; Dec. 20.
- Wright, William E., assignor of one-half to R. Marple, Charlotte, Mich. Gas-burner attachment. No. 1,376,241; Apr. 26; v. 285; p. 686.
- Wright, William J., Baltimore, Md. Wrench-handle. No. 1,371,533; Mar. 15; v. 284; p. 449.
- Wright, Willie, Thomasville, Ga. Water-heater. No. 1,388,684; Aug. 23; v. 289; p. 719.
- Wrigley, William, Jr., Company. (See Kappes, Andrew C., assignor.)
- Wrigley, Wm. Jr., Company. (See Johnson, Charles W., assignor.)
- Wrisberg, William E., St. Louis, Mo. Playing-cards. No. 1,373,286; Mar. 29; v. 284; p. 887.
- Wroughton, George T., Los Angeles, Calif. Valve-spring lifter for internal-combustion engines. No. 1,380,328; May 31; v. 286; p. 1007.
- Wrozina, Ignatius, assignor of one-third to O. J. Diehl and one-third to M. A. Heanue, Bridgeport, Conn. Making piano-hammers. No. 1,374,974; Apr. 19; v. 285; p. 411.
- Wrubel, Stanislaw, Genoa, Nebr. Anticreeping rail-chair. No. 1,380,284; May 31; v. 286; p. 999.
- Wu, Wei-Yoh, Ithaca, N. Y. Fluid-treating apparatus. No. 1,364,230; Jan. 4; v. 282; p. 35.
- Wuensch, Joseph W., St. Paul, Minn. Tag-holder. No. 1,392,548; Oct. 4.
- Wuerpel, Morris, Rochester, assignor to General Railway Signal Company, Gates, N. Y. Switch-machine. No. 1,370,576; Mar. 8; v. 284; p. 201.
- Wulf, John W., San Juan, Porto Rico. Fuse-plug. No. 1,373,696; Apr. 5; v. 285; p. 61.
- Wulff, Henry, assignor to S. M. Ford, St. Paul, Minn. Machine and making shingles. No. 1,381,388; June 14; v. 287; p. 254.
- Wulz, Edward, New York, N. Y. Combination-calipers. No. 1,380,624; June 7; v. 287; p. 57.
- Wulz, Edward, New York, N. Y. Combination-gage. No. 1,391,233; Sept. 20; v. 290; p. 491.
- Wunder, John, New York, N. Y. Collar-button. No. 1,379,377; May 24; v. 286; p. 754.
- Wundrack, Otto, Maywood, assignor to T. Wundrack, Chicago, Ill. Baker's oven. No. 1,391,157; Sept. 20; v. 290; p. 476.
- Wundrack, Theresia. (See Wundrack, Otto, assignor.)
- Wurdack, William, St. Louis, Mo. Door-operated switch for panel-boards and the like. No. 1,364,674; Jan. 4; v. 282; p. 121.



*Alphabetical list of patentees—Continued.*

- Wurscher, Joseph, St. Paul, Minn. Siphon-filter. No. 1,378,929; May 24; v. 286; p. 669.
- Wurst, Earl H., Elyria, Ohio. Tapping and raveling apparatus for steel-furnaces and the like. No. 1,373,581; Apr. 5; v. 285; p. 39.
- Wurster, John C., Lenox, Iowa. Hot-air-controlling device for air-intake of carbureters. No. 1,371,189; Mar. 8; v. 284; p. 317.
- Würth, Paul & Compagnie (Societe en Commandite par Actions). (See Zender, Pierre, assignor.)
- Wüster, Robert, Dassel, Germany. Filtering apparatus. No. 1,386,340; Aug. 2; v. 289; p. 75.
- Wyatt, Clarence G., Camden, N. J. Mixing-machine. No. 1,373,784; Apr. 5; v. 285; p. 78.
- Wycherley, Arthur J., Wellington, New Zealand. Lock. No. 1,372,584; Mar. 22; v. 284; p. 707.
- Wycherley, Arthur J., Wellington, New Zealand. Lock. No. 1,389,805; Sept. 6; v. 290; p. 49.
- Wycherley, Sydney R., Bromley, assignor to Spicer Brothers, Limited, London, England. Loose-leaf binder. No. 1,398,214; Nov. 22.
- Wycherley, Sydney R., Bromley, assignor to Spicer Brothers, Limited, London, England. Loose-leaf binder. No. 1,398,215; Nov. 22.
- Wyckoff, J. Lewis, *et al.*, trustees. (See Hennessy, D. E., and McGeorge, assignors.)
- Wyckoff, J. Lewis, *et al.*, trustees. (See Hennessy, Daniel E., assignor.)
- Wyckoff, Joseph E., Los Angeles, Calif. Beet-harvester. No. 1,366,997; Feb. 1; v. 283; p. 23.
- Wyckoff, Joseph E., Los Angeles, Calif. Beet-harvester. No. 1,390,663; Sept. 13; v. 290; p. 314.
- Wyeth, George A., New York, N. Y. Combined cap-extractor and sanitary bottle-closure. No. 1,372,468; Mar. 22; v. 284; p. 684.
- Wyeth, Henrietta M., South Hanson, Mass. Lingerie-strap retainer. No. 1,401,227; Dec. 27.
- Wygert, Henry L., Albany, N. Y. Dental vulcanizer. No. 1,401,933; Dec. 27.
- Wygodsky, Leon, assignor to Baltimore Oil Engine Company, Baltimore, Md. Valve. No. 1,368,315; Feb. 15; v. 283; p. 385.
- Wygodsky, Leon, assignor to Baltimore Oil Engine Company, Baltimore, Md. Internal-combustion engine. No. 1,383,367; July 5; v. 288; p. 23.
- Wykes, Claude P., assignor to Loudon Manufacturing Company, Grand Rapids, Mich. Merchandise-display holder. No. 1,365,437; Jan. 11; v. 282; p. 312.
- Wykoff, Charles L., Moorland, Iowa. Earth-boring reamer. No. 1,365,069; Jan. 11; v. 282; p. 240.
- Wyer, Leopold, *et al.* (See Fahrni, Otto, assignor.)
- Wyles, William H., North Vancouver, assignor of one-half to E. J. Deacon, Vancouver, British Columbia, Canada. Retriever-cord guide for trolley-poles. No. 1,395,623; Nov. 1.
- Wylie, Hamilton N., Edinburgh, Scotland. Metal strut for aircraft. No. 1,364,538; Jan. 4; v. 282; p. 95.
- Wyman, Charles O., Anoka, Minn. Internal-combustion engine. No. 1,370,939; Mar. 8; v. 284; p. 270.
- Wyman, George R., assignor to Bird & Son, Inc., East Walpole, Mass. Method of and apparatus for producing felt paper or felt. No. 1,388,685; Aug. 23; v. 289; p. 720.
- Wyman, George S., Binghamton, N. Y., assignor to N. Primel, Johnstown, Pa. Container, shipping-case, crate, and box. No. 1,377,382; May 10; v. 286; p. 248.
- Wymore, Harry, administrator. (See Currier, Henry.)
- Wyner, Rudolph H. (See Schwarze, William, assignor.)
- Wynn, John G., Madison, Wis. Concrete-mixer. No. 1,369,870; Mar. 1; v. 284; p. 22.
- Wyoming Shovel Works, The. (See Bell, James H., assignor.)
- Wyoming Shovel Works, The. (See Webster, Lewis E., assignor.)
- Wyoming Thresher Company. (See Braddy, Clyde E., assignor.)
- Wyrick, Clayton E., Albany, N. Y., assignor to Multi-Print System Co., Inc., Chicago, Ill. Printing and serving machine. No. 1,391,356; Sept. 20; v. 290; p. 516.
- Wyscarver, William, Jr., *et al.* (See Trembley, Lou J., assignor.)
- Wyskocil, George. (See Dimock, R. H., Sheaver, and Wyskocil.)
- Wyson, Ansel S., Los Angeles, Calif. Printing-machine. No. 1,380,509; June 7; v. 287; p. 35.
- Wyson, Ansel S., assignor to F. C. York, trustee, Los Angeles, Calif. Printing-machine. No. 1,365,879; Jan. 18; v. 282; p. 438.
- Wyss, Russell L., assignor of one-half to D. L. Piggott, Kansas City, Mo. Electric timer. No. 1,387,223; Aug. 9; v. 289; p. 320.
- Xardell, Charles A., Utica, N. Y. Electric heater. No. 1,386,300; Aug. 2; v. 289; p. 67.
- Yadwisniczak, Joseph. (See Bojko, Iwan, assignor.)
- Yaeche, Oscar H., Aurora, Ill. Cistern-top. No. 1,400,399; Dec. 13.
- Yaeger, Beatrice, Columbia Heights, Minn. Sleeve-protector. No. 1,378,081; May 17; v. 286; p. 435.
- Yager, George L., Oakland, Calif. Separator. No. 1,389,085; Aug. 30; v. 289; p. 854.
- Yaggi, Lawrence E. (See Jenks, B. L., Cameron, and Yaggi.)
- Yaggi, Lawrence E., and J. L. Cameron, East Cleveland, assignors of one-third to B. L. Jenks, Cleveland, Ohio. Sitascope. No. 1,371,964; Mar. 15; v. 284; p. 531.
- Yahraus, George H. (See Fulkerson, W. J., and Yahraus.)
- Yale, Edson F. (See Ormsbee, George F., assignor.)
- Yale & Towne Manufacturing Company. (See Augenbraun, Peter F., assignor.)
- Yale & Towne Manufacturing Company, The. (See Bock, Alfred, C. O., assignor.)
- Yale & Towne Manufacturing Company, The. (See Butler, Harry R., assignor.)
- Yale & Towne Manufacturing Company, The. (See Crouch, Thomas E., assignor.)
- Yale & Towne Manufacturing Company, The. (See Lewis, Rollin C., assignor.)
- Yale & Towne Manufacturing Company, The. (See Maxwell, Maxwell C., assignor.)
- Yale & Towne Manufacturing Company, The. (See Morgan, J. C., and Schroeder, assignors.)
- Yale & Towne Manufacturing Company. (See Rector, Enoch, assignor.)
- Yale & Towne Manufacturing Company, The. (See Schoell, Reinhold, assignor.)
- Yamamoto, Takejiro, Tokyo, Japan. Intertwisted net. No. 1,390,325; Sept. 13; v. 290; p. 246.
- Yamamoto, Zenkichi, Tokyo, Japan. Drying apparatus. No. 1,372,585; Mar. 22; v. 284; p. 707.
- Yamashita, Okiye, Tokyo, Japan. Device for increasing boiler efficiency. No. 1,399,236; Dec. 6.
- Yanacopoulos, George, New York, N. Y. Wind-motor for air-pumps. No. 1,369,596; Feb. 22; v. 283; p. 673.
- Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. No. 1,376,371; Apr. 26; v. 285; p. 711.
- Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Electrical switch. No. 1,394,132; Oct. 18.
- Yanochowski, George A., Chicago, Ill., and H. E. Hershey, Whitewater, Kans., assignors to Automatic Electric Company, Chicago, Ill. Semi-automatic telephone system. No. 1,379,017; May 24; v. 286; p. 686.
- Yanow, Jacob, assignor to Gram Headwear Mfg. Company, St. Louis, Mo. Cap. No. 1,396,985; Nov. 15.
- Yantis, Roy W., Kansas City, Mo. Automobile-engine lock. No. 1,370,393; Mar. 1; v. 284; p. 120.
- Yaple, Quincy B., Arlington, Kans. Socket-wrench. No. 1,372,113; Mar. 22; v. 284; p. 616.
- Yarbrough, Walter W., Memphis, Tenn. Attachment for crank-shafts. No. 1,390,417; Sept. 13; v. 290; p. 263.
- Yardley, Horace R., Chicago, Ill., assignor to R. Williamson & Co. Holder for lighting-fixtures. No. 1,384,174; July 12; v. 288; p. 239.
- Yardley, John L. M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,392,039; Sept. 27; v. 290; p. 729.
- Yardich, Mirko M., Chisholm, Minn. Cue-tip. No. 1,367,850; Feb. 8; v. 283; p. 249.
- Yarnall, James M., Yonkers, N. Y. Egg-carton. No. 1,374,050; Apr. 5; v. 285; p. 130.
- Yarnall, Newton L., Accoville, W. Va. Drawbar-straightener. No. 1,395,325; Nov. 1.
- Yarrow, Harold E., Scotstoun, Scotland. Steering mechanism. No. 1,373,375; Mar. 29; v. 284; p. 904.
- Yarrow, Harold E., Glasgow, Scotland. Oil-fired boiler. No. 1,401,850; Dec. 27.
- Yaskulka, Stanley, Boardman, Conn. Railway-tie. No. 1,369,071; Feb. 22; v. 283; p. 572.
- Yassenoff, Isidor, assignor to The Universal Parts Company, Columbus, Ohio. Cam-shaft and making the same. No. 1,390,949; Sept. 13; v. 290; p. 372.
- Yater, James M., Delaware, Okla. Figure toy. No. 1,364,344; Jan. 4; v. 282; p. 53.
- Yater, James M., Nowata, Okla. Cutting-tool. No. 1,375,342; Apr. 19; v. 285; p. 483.
- Yates, De Witt E., Chippewa Falls, Wis. Power-driven pump. No. 1,391,036; Sept. 20; v. 290; p. 451.
- Yates, George, Cleveland, Ohio. Traction-motor. No. 1,374,708; Apr. 12; v. 285; p. 298.
- Yates, George, Chicago, Ill. Wheel. No. 1,375,545; Apr. 19; v. 285; p. 521.
- Yates, James R. (See Braden, William A., assignor.)
- Yates, John L., New York, N. Y. Lock. No. 1,398,617; Nov. 29.
- Yates, Joseph M., assignor to Hancock Manufacturing Co., Charlotte, Mich. Door-handle for automobiles and the like. No. 1,372,734; Mar. 29; v. 284; p. 776.
- Yates, Martha A., and O. Portland, Oreg. Rack. No. 1,378,161; May 17; v. 286; p. 450.
- Yates, Odaville. (See Yates, Martha A., and O.)
- Yates, Odaville, Portland, Oreg. Non-puncturable and non-collapsible pneumatic inside tire. No. 1,401,507; Dec. 27.
- Yates, Robert, Passaic, N. J. Process and apparatus for treating petroleum-oils to produce gasolene. No. 1,395,075; Oct. 25.
- Yates, Sheppard B., Hamlet, N. C. Classification-signal for locomotives. No. 1,395,326; Nov. 1.
- Yates, Spencer L., Oakland, Calif. Violin-bow guide. No. 1,384,292; July 12; v. 288; p. 264.
- Yates, William B., Ventura, Calif. Queen-bee-rearing device. No. 1,397,830; Nov. 22.



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- Yauch, Christian, Detroit, Mich. Skylight. No. 1,368,531; Feb. 15; v. 283; p. 428.
- Yawman & Erbe Manufacturing Company. (See Weiss, Albert T., assignor.)
- Yawman & Erbe Manufacturing Company. (See Yawman, Philip H., assignor.)
- Yawman and Erbe Mfg. Co. (See Stevens, Isaac, assignor.)
- Yawman and Erbe Mfg. Company. (See Wortman, Elbert B. M., assignor.)
- Yawman, Frederick G., Rochester, N. Y. Bottle-capping device. No. 1,379,429; May 24; v. 286; p. 764.
- Yawman, Philip H., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Unit metal transfer-cabinet. No. 1,400,710; Dec. 20.
- Yeager, John, Baltimore, Md. Bed. No. 1,388,783; Aug. 23; v. 289; p. 739.
- Yeager, Peter E., Reading, Pa. Modifying attachment for sound-reproducing machines. No. 1,377,652; May 10; v. 286; p. 299.
- Yearsley, Eugene W., Brooklyn, N. Y., assignor to The S. S. White Dental Manufacturing Company. Air-compressor. No. 1,370,254; Mar. 1; v. 284; p. 95.
- Yeatman, John A., assignor to United Iron Works, Oakland, Calif. Bore-hole pump. No. 1,389,414; Aug. 30; v. 289; p. 920.
- Yeats, John A. (See Swan, A. S., and Yeats.)
- Yeiter, Clarence W., Alto, Mich. Snowplow. No. 1,389,727; Sept. 6; v. 290; p. 34.
- Yennett, John, and E. T. Lonkert, Atlanta, Ga. Reel. No. 1,376,303; Apr. 26; v. 285; p. 698.
- Yeoll, William J., assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate and making the same. No. 1,379,430; May 24; v. 286; p. 395.
- Yeoll, William J., assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate matrix and making the same. No. 1,379,431; May 24; v. 286; p. 764.
- Yeoll, William J., assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate and making the same. No. 1,379,432; May 24; v. 286; p. 764.
- Yeoll, William J., assignor to J. S. Stokes, Philadelphia, Pa. Wooden-back printing-block. No. 1,379,433; May 24; v. 286; p. 764.
- Yeoll, William J., assignor to J. S. Stokes, Philadelphia, Pa. Printing-plate matrix and making the same. No. 1,379,434; May 24; v. 286; p. 764.
- Yeomans, Lucien I., assignor, by mesne assignments, to Amalgamated Machinery Corporation, Chicago, Ill. Process and machine for making crank-shafts for engines, compressors, and the like. No. 1,378,642; May 17; v. 286; p. 541.
- Yerger, Charles W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,380,696; June 7; v. 287; p. 70.
- Yerkes, Wilmer H., Pittsburgh, Pa. Railway-tie. No. 1,364,602; Jan. 4; v. 282; p. 107.
- Yerkes, Wilmer H., Pittsburgh, Pa. Vacuum-sweeper. No. 1,366,998; Feb. 1; v. 283; p. 23.
- Yetter, Edward J., Denver, Colo. Sheet-roofing. No. 1,398,250; Nov. 29.
- Yguain, Orfello, Buenos Aires, Argentina. Multiple adjustable wrench. No. 1,368,089; Feb. 8; v. 283; p. 293.
- Yingling, Harry C., Williamsport, Pa. Coupling device. No. 1,389,282; Aug. 30; v. 289; p. 893.
- Yirikian, John, New York, N. Y. Horizontally-split attachment for removable dental bridgework. No. 1,394,770; Oct. 25.
- Yoder, Carl M., Cleveland, Ohio. Rolling or bending machine. No. 1,376,497; May 3; v. 286; p. 22.
- Yoder, Carl M., assignor to The Yoder-Thomas Manufacturing Company, Cleveland, Ohio. Operating mechanism. No. 1,367,935; Feb. 8; v. 283; p. 264.
- Yoder, Charles B., Webster Groves, Mo. Automatic control for electric irons. No. 1,378,082; May 17; v. 286; p. 435.
- Yoder, David A. (See Eberly, Sylvester, assignor.)
- Yoder-Thomas Manufacturing Company, The. (See Yoder, Carl M., assignor.)
- Yodges, Joseph E., Depew, N. Y. Hose-repairing tool. No. 1,389,086; Aug. 30; v. 289; p. 854.
- Yoho, Clarence E. (See Carleton, W. A., and Yoho.)
- Yolton, Robert E., Birmingham, Ala., assignor to Kilby Frog & Switch Company. Guard-rail clamp. No. 1,380,329; May 31; v. 286; p. 1007.
- Yonkese, Joseph G., Brooklyn, N. Y. Airplane. No. 1,395,693; Nov. 1.
- Yorgensen, Paul L. L., Hartford, Conn. Toy pistol. No. 1,375,990; Apr. 26; v. 285; p. 638.
- York, David W., North Abington, Mass. Garment-holder. No. 1,397,670; Nov. 22.
- York, Edgar L., assignor to Oasis Manufacturing Co., Peoria, Ill. Ironing-roll. No. 1,397,348; Nov. 15.
- York, Frank C., trustee. (See Wysong, Ansel S., assignor.)
- York, Glenier F., Salina, Kans. Thread-remover. No. 1,395,936; Nov. 1.
- York Manufacturing Company. (See Williams, Llewellyn, assignor.)
- York, Percy, Duluth, Minn. Wrench. No. 1,371,965; Mar. 15; v. 284; p. 531.
- Yoshinaga, Kuzo, Los Angeles, Calif. Indicating and recording speedometer. No. 1,380,510; June 10; v. 287; p. 35.
- Yoshizawa, Taichiro, assignor to Naigwai Kagaku Seihin Kabushiki Kwaiha, Tokyo, Japan. Anticorrosive composition. No. 1,365,760; Jan. 18; v. 282; p. 414.
- Yost, Emil E., St. Paul, Minn. Power-driven lawn-mower. No. 1,387,578; Aug. 16; v. 289; p. 444.
- Youan, Joseph, et al. (See Avis, Sam, assignor.)
- Youberg, Charles F. and F. S., Indianapolis, Ind., assignors of one-half to W. Youberg, Hegewisch, Chicago, Ill. Railway-tie and rail-securing means. No. 1,386,750; Aug. 9; v. 289; p. 227.
- Youberg, Frances S. (See Youberg, Charles F. and F. S.)
- Youberg, William. (See Youberg, Charles F. and F. S., assignors.)
- Youle, William E., assignor of one-half to J. F. Holbrook, Los Angeles, Calif. Casing-spear. No. 1,377,301; May 10; v. 286; p. 232.
- Young, Ami H., Oakland, Calif. Resilient tubeless tire. No. 1,373,111; Mar. 29; v. 284; p. 851.
- Young, Axel V., De Beque, Colo. Retort for extracting oil, &c. No. 1,378,643; May 17; v. 286; p. 542.
- Young Brothers Company. (See Curry, Frederick H., assignor.)
- Young, Carl, Chicago, Ill. Shoe. No. 1,380,879; June 7; v. 287; p. 106.
- Young, Charles D., Wilmington, Del. Coupling. No. 1,372,214; Mar. 22; v. 284; p. 636.
- Young, Charles E., Akron, Ohio. Non-skid-fire protector. No. 1,386,668; Aug. 9; v. 289; p. 210.
- Young, Charles F., Philadelphia, Pa. Automatic door-opener. No. 1,367,447; Feb. 1; v. 283; p. 112.
- Young, Charles F., Covington, Ky., assignor to The Universal Equalizer Company, Cincinnati, Ohio. Sash-pulley. No. 1,365,761; Jan. 18; v. 282; p. 414.
- Young, Charles W., Cleveland, Ohio. Skinning-tool. No. 1,379,153; May 24; v. 286; p. 711.
- Young, Charley W., San Jose, Calif. Protecting device for fruit-jars and the like. No. 1,387,749; Aug. 16; v. 289; p. 479.
- Young, Clarence R., Leesburg, Ind. Electrical system. No. 1,393,309; Nov. 8.
- Young, Delphine E. (See Young, Edgar A., assignor.)
- Young, Donald A. (See Hickson, J. M., and Young.)
- Young, E. K., et al. (See Krastin, August, assignor.)
- Young, Edgar A., Los Angeles, Calif., assignor to himself and D. E. Young. Saw-set. No. 1,371,534; Mar. 15; v. 284; p. 449.
- Young, Edwin J. (See Parker, Lucian E., assignor.)
- Young, Elmer F., Bay City, Mich. Finger-ring attachment. No. 1,382,043; June 21; v. 287; p. 438.
- Young, Ernest A., Cleveland, Ohio. Welting. No. 1,393,476; Oct. 11.
- Young, Ernest A., Cleveland, Ohio. Making welts. No. 1,393,477; Oct. 11.
- Young, Ernest A., Cleveland, Ohio. Welt or rand. No. 1,393,478; Oct. 11.
- Young, Eugene E., Syracuse, N. Y. Combined lubricator and humidifier. No. 1,389,176; Aug. 30; v. 289; p. 872.
- Young, Everett T., Peekskill, N. Y. Soapstone equivalent. No. 1,391,037; Sept. 20; v. 290; p. 452.
- Young, Fay J., assignor of one-half to J. Kiel, Wayland, N. Y. Accelerating device for motor-cars. No. 1,375,436; Apr. 19; v. 285; p. 501.
- Young, Frank L., San Antonio, Tex. Manhole-form. No. 1,400,927; Dec. 20.
- Young, Frank W., Providence, R. I. Collar-holder. No. 1,367,448; Feb. 1; v. 283; p. 112.
- Young, Frank W., Verona, N. J. Carbonizing apparatus. No. 1,397,029; Nov. 15.
- Young, Frederick S., Portageville, Mo. Potato-cutter. No. 1,368,090; Feb. 8; v. 283; p. 293.
- Young, George P., assignor to The Warner Elevator Manufacturing Company, Cincinnati, Ohio. Elevator-oiling mechanism. No. 1,400,254; Dec. 13.
- Young, Harry, Philadelphia, Pa. Water-heating top for gas-stoves. No. 1,379,154; May 24; v. 286; p. 711.
- Young, Howard A., Chicago, Ill. Vacuum and boiler feed apparatus. No. 1,395,624; Nov. 1.
- Young, Jackson B., Oakland, Calif. Machine for making hollow ware from pulp. No. 1,368,217; Feb. 8; v. 283; p. 318.
- Young, Jacob L., New Rochelle, N. Y. Dental appliance. No. 1,378,306; May 17; v. 286; p. 477.
- Young, Jacob P., Huntington, Ind. Sanitary stool-seat cover. No. 1,377,541; May 10; v. 286; p. 278.
- Young, James H., assignor to H. H. Robertson Co., Pittsburgh, Pa. Protected metal article. No. 1,366,999; Feb. 1; v. 283; p. 24.
- Young, James H., assignor to H. H. Robertson Company, Pittsburgh, Pa. Fire-resisting asphalt or like hydrocarbonaceous material. No. 1,398,991; Dec. 6.
- Young, Jesse B., Rush Ky. Match-box. No. 1,396,545; Nov. 8.
- Young, John, Mount Vernon, N. Y. Variable-speed transmission. No. 1,379,504; May 24; v. 286; p. 778.
- Young, John C., Washington, D. C. Method and apparatus for vulcanizing. No. 1,390,005; Sept. 6; v. 290; p. 90.



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- Young, John T., Elmira, N. Y. Journal-bearing. No. 1,384,502; July 12; v. 288; p. 307.
- Young, Joseph B. (See Kirk, R. B., and Young.)
- Young, Julius, Louisville, Ky. License-plate. No. 1,381,688; June 14; v. 287; p. 311.
- Young, Otis W., assignor to The Pyle-National Company, Chicago, Ill. Steam-engine reversing-gear. No. 1,364,910; Jan. 11; v. 282; p. 210.
- Young, Roy O. (See Jenks, C. R., and Young.)
- Young, Vincent M., Mason, Iowa. Combination rotary lock. No. 1,401,228; Dec. 27.
- Young, W. J., Machinery Company. (See Grover, George B., assignor.)
- Young, Walter. (See Tyler, Alva W., assignor.)
- Young, Walter J., St. Louis, Mo. Individual-record ejector for graphophone-cabinets. No. 1,393,065; Oct. 11.
- Young, William H., Los Angeles, Calif. Apparatus for cracking and refining petroleum products. No. 1,378,307; May 17; v. 286; p. 477.
- Young, William J. (See Wright, W. C., Young, and Grover.)
- Young, William R., Nashville, Tenn. License-number-plate holder. No. 1,386,751; Aug. 9; v. 289; p. 227.
- Young, Willis G., Chicago, Ill. Shock-absorber for vehicles. No. 1,372,327; Mar. 22; v. 284; p. 658.
- Young, Willis G., Chicago, Ill. Folding stand. No. 1,382,707; June 28; v. 287; p. 618.
- Youngblood, William F., Denver, Colo. Belt-fastener. No. 1,382,044; June 21; v. 287; p. 438.
- Youngblood, Joseph C., Denver, Colo. Air-pump. No. 1,388,784; Aug. 23; v. 289; p. 739.
- Younge, Ernwald H., Portland, Oreg. Stereopticon. No. 1,366,443; Jan. 25; v. 282; p. 592.
- Younger, Winston R., Alexandria, La. Vulcanizer. No. 1,384,503; July 12; v. 288; p. 307.
- Youngling, Henry W. (See Desmarais, Oscar H., assignor.)
- Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Cam-actuated warp-tension-controlling mechanism for looms. No. 1,391,927; Sept. 27; v. 290; p. 705.
- Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Warp-tension-controlling mechanism for looms. No. 1,391,928; Sept. 27; v. 290; p. 705.
- Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Rucker-shaft support for looms. No. 1,393,416; Oct. 11.
- Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Weft-replenishing mechanism for looms. No. 1,396,154; Nov. 8.
- Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Stop mechanism for looms. No. 1,398,532; Nov. 29.
- Youngren, Oscar A., and J. A. Watt, assignors to National Life Preserver Company, New York, N. Y. Life-preserver. No. 1,374,623; Apr. 12; v. 285; p. 282.
- Youngs, Edward R., Miami, Fla. Tie-clasp. No. 1,380,450; June 7; v. 287; p. 26.
- Youngstown Pressed Steel Company, The. (See Dickinson, Clarence W., assignor.)
- Youngstown Sheet and Tube Company, The. (See Coey, Stewart C., assignor.) (Reissue.)
- Yount, Clarence B., Montgomery county, near Union, Ohio. Means for measuring liquids. No. 1,386,083; Aug. 2; v. 289; p. 24.
- Yount, Miles F., Sourlake, Tex. Pump-piston. No. 1,372,262; Mar. 22; v. 284; p. 645.
- Youse, Robert L., assignor of one-half to A. Hendrick, Philadelphia, Pa. Train control. No. 1,386,482; Aug. 2; v. 289; p. 100.
- Youtsey, Floyd S., E. C. Walker, St. Louis, Mo., and A. S. Moses, New York, N. Y., assignors to National Lead Company, St. Louis, Mo. Keg-making machine. No. 1,371,833; Mar. 15; v. 284; p. 506.
- Yoxall, Henry S., and J. J. Richardson, assignors to Brampton Brothers, Limited, Birmingham, England. Spring-fork for motorcycles. No. 1,397,850; Nov. 22.
- Ysskin, Herman, Newark, N. J. Wheel. No. 1,394,461; Oct. 18.
- Yuasa, Shinkichi, Cupertino, Calif. Disk plow and the like. No. 1,370,079; Mar. 1; v. 284; p. 61.
- Yuasa, Shinkichi, Cupertino, Calif. Window-cleaner. No. 1,382,875; June 28; v. 287; p. 649.
- Yuenling, John. (See Wells, John V., assignor.)
- Yunker, Clarence. (See Riley, E., and Yunker.)
- Zabel, Bertha, administratrix. (See Zabel, William.)
- Zabel, William, deceased; B. Zabel, administratrix, assignor to The Union Switch & Signal Company, Swissvale, Pa. Resistance unit. No. 1,368,678; Feb. 15; v. 283; p. 456.
- Zaborsky, Daniel, Chicago, Ill. Spring-motor for bicycle. No. 1,374,797; Apr. 12; v. 285; p. 315.
- Zabriskie, Henry L., Westfield, and F. Diehl, assignors to Diehl Manufacturing Co., Elizabeth, N. J. Lubricating-ring. No. 1,379,505; May 24; v. 286; p. 778.
- Zabriskie, William F., Detroit, Mich. Collapsible reinforcement for reinforced concrete construction. No. 1,376,990; May 3; v. 286; p. 116.
- Zacharias, Leonard L. (See Elmann, E. E., Kell, and Zacharias.)
- Zahar, Joseph A., and R. A. L. Volet, Paris, France. Automatic indicating apparatus. No. 1,384,653; July 12; v. 288; p. 339.
- Zahm, Albert F., Washington, D. C. Hovering airplane. No. 1,401,934; Dec. 27.
- Zahn, Joseph A., Cincinnati, Ohio. Shoe-heel. No. 1,389,087; Aug. 30; v. 289; p. 855.
- Zahn, Joseph A., Astoria, assignor to E. Berthold, Jamaica, N. Y. Igniter. No. 1,399,727; Dec. 6.
- Zahn, Otto E., Schleisingerville, Wis., assignor to J. E. Klefer, Milwaukee, Wis. Tractor wheel and lug. No. 1,381,389; June 14; v. 287; p. 254.
- Zaiden, David, East Orange, N. J. Toy. No. 1,368,592; Feb. 15; v. 283; p. 440.
- Zaiden, David, East Orange, N. J. Walking attachment for dolls, &c. No. 1,370,721; Mar. 8; v. 284; p. 229.
- Zaiden, David, East Orange, N. J. Mechanical doll. No. 1,382,708; June 28; v. 287; p. 618.
- Zaiden, David, New York, N. Y. Clasp. No. 1,368,593; Feb. 15; v. 283; p. 440.
- Zaiden, David, New York, N. Y. Mechanical eye. No. 1,373,785; Apr. 5; v. 285; p. 78.
- Zaiden, David, New York, N. Y. Mechanical motor. No. 1,373,786; Apr. 5; v. 285; p. 78.
- Zaiden, David, New York, N. Y. Toy. No. 1,383,780; July 5; v. 288; p. 109.
- Zaiss, Fred E., Chicago, Ill. Machine for making spiral stick-candy. No. 1,400,127; Dec. 13.
- Zaiss, Fred E., Chicago, Ill. Machine for making candy. No. 1,400,128; Dec. 13.
- Zajac, Henry, Passaic, N. J. Lamp-extinguisher. No. 1,400,845; Dec. 20.
- Zakarka, Joseph, Brooklyn, N. Y. Bag-holder. No. 1,386,669; Aug. 9; v. 289; p. 211.
- Zalevski, Felix P., and L. P. Hryshka, Preston, Ontario, Canada. Hanger-bracket. No. 1,382,709; June 28; v. 287; p. 618.
- Zalkind, Philip, New York, N. Y. Container. No. 1,389,923; Sept. 6; v. 290; p. 74.
- Zamecnik, Frank, Washington, D. C. Operating-table. No. 1,378,930; May 24; v. 286; p. 670.
- Zancan, Ottavio, New York, N. Y. Tire construction. No. 1,385,653; July 26; v. 288; p. 702.
- Zannoth, Robert C., assignor to Roberts Brass Company, Milwaukee, Wis. Air-pump. No. 1,398,310; Nov. 29.
- Zanon, Remo C., assignor of one-half to J. J. Ferlin, Modesto, Calif. Automatic safety-clutch. No. 1,391,601; Sept. 20; v. 290; p. 566.
- Zanone, Richard J., New Albany, Ind., assignor to Weighing Machine Mfg. Co., Louisville, Ky., a Corporation. Automatic scale. No. 1,368,778; Feb. 15; v. 283; p. 476.
- Zanone, Richard J., New Albany, Ind., assignor to Weighing Machine Manufacturing Company, Louisville, Ky. Automatic scale. No. 1,386,546; Aug. 2; v. 289; p. 113.
- Zapf, John, North Bend, Ohio. Platform-spring attachment for motor-vehicles. No. 1,380,511; June 7; v. 287; p. 35.
- Zapf, Michael, and G. Robertson, Maricopa, Calif. Emulsion-preventive. No. 1,380,512; June 7; v. 287; p. 36.
- Zapis, William, Hopewell, N. J. Shoe-fastening. No. 1,384,815; July 19; v. 288; p. 453.
- Zappey, Michael S., Johnstown, Pa. Wreck-indicating buoy. No. 1,377,046; May 3; v. 286; p. 127.
- Zarembo Company. (See Hughes, Burton S., assignor.)
- Zarembo Company. (See Witte, Felix, assignor.)
- Zarmstorf, Henry, Flint, Mich. Grain-drill attachment. No. 1,392,732; Oct. 4.
- Zarro, Joseph W. (See Unger, M., Veazie, and Zarro.)
- Zarucha, Robert M., Waterbury, Conn. Radiator for motor-vehicles. No. 1,393,479; Oct. 11.
- Zastrow, George W., Windsor Hills, assignor, by mesne assignments, to Zastrow Machine Company, Inc., Baltimore, Md. Crane. No. 1,379,378; May 24; v. 286; p. 754.
- Zastrow Machine Company. (See Zastrow, George W., assignor.)
- Zaugg, William, Chattanooga, Tenn. Gate-operating mechanism for water-wheels. No. 1,388,686; Aug. 23; v. 289; p. 720.
- Zaun, George F., San Bernardino, Calif. Collapsible-head wall-form. No. 1,389,543; Aug. 30; v. 289; p. 945.
- Zavagno, Alfred N., San Francisco, Calif. Apparatus for edging tiles and like. No. 1,394,392; Oct. 18.
- Zavor, Mike, Acme, Wyo. Plow. No. 1,368,005; Feb. 8; v. 283; p. 277.
- Zawada, Michal, Burlington, N. J. Street-sweeper. No. 1,370,869; Mar. 8; v. 284; p. 257.
- Zawadzki, Anthony K., Wrightstown, N. J. Method of and apparatus for making webbed gloves. No. 1,389,283; Aug. 30; v. 289; p. 894.
- Zawistowski, Martin, Brooklyn, N. Y. Cloth-cutting machine. No. 1,378,162; May 17; v. 286; p. 450.
- Zawistowski, Martin, Brooklyn, N. Y. Base for cloth-cutting machines. No. 1,378,163; May 17; v. 286; p. 450.
- Zeal, Giles H. and H. H. London, England. Apparatus for simultaneously producing a plurality of graduations, scales, series of numbers, letters, or the like. No. 1,368,532; Feb. 15; v. 283; p. 428.
- Zeal, Herbert H. (See Zeal, Giles H., and H. H.)
- Zealand, Jonathan, Chicago, Ill. Coupon-cutter. No. 1,365,070; Jan. 11; v. 282; p. 241.
- Zebrowski, Alexander, Stamford, Conn. Portable water heater. No. 1,381,533; June 14; v. 287; p. 281.
- Zebrowski, Alexander, Stamford, Conn. Shade-bracket. No. 1,389,415; Aug. 30; v. 289; p. 920.



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- Zega, Anthony F., Bloomfield, N. J. Cover-support. No. 1,394,879; Oct. 25.
- Zeglen, Casimir, Cleveland, Ohio. Wire-fabric armor-plate. No. 1,376,304; Apr. 26; v. 285; p. 699.
- Zeidler, Ernest, Marshfield, Wis. Cheese-box. No. 1,388,396; Aug. 23; v. 289; p. 664.
- Zeidler, Ernest, Marshfield, Wis. Box. No. 1,391,038; Sept. 20; v. 290; p. 452.
- Zeidler, Frederick W., Jersey City, and C. Halpern, Newark, N. J. Canoe. No. 1,387,957; Aug. 16; v. 289; p. 519.
- Zeidler, John L. (See Roosa, Frank A., assignor.)
- Zeidler, John T. (See Roosa, Frank A., assignor.)
- Zeidler, William A., New York, N. Y. Connecting two pieces of metal or like material. No. 1,366,148; Jan. 18; v. 282; p. 490.
- Zeidler, William A., New York, N. Y. Spiral for shells. No. 1,368,981; Feb. 15; v. 283; p. 514.
- Zeidler, William A., New York, N. Y. Collar-packaging machine. No. 1,374,975; Apr. 19; v. 285; p. 411.
- Zeidler, William A., and M. L. Ferentz, New York, N. Y. Changeable advertising-sign. No. 1,380,170; May 31; v. 286; p. 978.
- Zeigler, Michael, Bay City, Mich. Automobile-radiator cover. No. 1,375,198; Apr. 19; v. 285; p. 455.
- Zeigler, William G., Chicago, Ill. Submarine wireless system. No. 1,382,590; June 21; v. 287; p. 541.
- Zeiss, Firm of Carl. (See Lehmann, Johannes, assignor.)
- Zeiss, William. (See Dahlberg, Arthur O., assignor.)
- Zeitz, Ernest. (See Heindl, Stephen O., assignor.)
- Zelazo, Stanley, Adams, Mass. Trolley-wheel. No. 1,368,006; Feb. 8; v. 283; p. 277.
- Zeleznoff, Philip, Philadelphia, Pa. Life-saving device. No. 1,372,469; Mar. 22; v. 284; p. 684.
- Zell, Jacob J., Philadelphia, and A. S. Vogt, Altoona, Pa. Journal-box. No. 1,380,697; June 7; v. 287; p. 71.
- Zeller, Isaiah N., Chicago, Ill. Hairpin. No. 1,389,924; Sept. 6; v. 290; p. 74.
- Zemann, Anton. (See Leinweber, Curtis H., W. H., and V. H., and Zemann.)
- Zender, Mynard J., Wausau, Wis. Bedpan. No. 1,368,874; Feb. 15; v. 283; p. 494.
- Zender, Pierre, assignor to Paul Würth & Compagnie (Société en Commandite par Actions), Luxemburg-Hollerich, Grand Duchy of Luxemburg. Apparatus for charging shaft-furnaces. No. 1,393,480; Oct. 11.
- Zenishek, John, Solon, Iowa. Auto-light-controlling device. No. 1,387,579; Aug. 16; v. 289; p. 444.
- Zenith Carburetor Company, The. (See Ferris, Frank E., assignor.)
- Zenker, Frederick. (See Freeman, H. S., and Zenker.)
- Zenker, Frederick. (See Horton, B. D., Ball, and Zenker.)
- Zenker, Frederick, Highland Park, assignor to Square D Company, Detroit, Mich. Quick-break double-throw switch. No. 1,400,400; Dec. 13.
- Zenner, Philip M., Athens, Ohio, and H. H. Williams, Huntington, W. Va. Envelop moistening, sealing, and stamping device. No. 1,384,879; July 19; v. 288; p. 466.
- Zent, Abram L., Dayton, Ohio, assignor to The Bushnell Manufacturing Company, Kansas City, Kans. Vending-machine. No. 1,388,627; Aug. 23; v. 289; p. 709.
- Zent, Wayne P., Troy, N. Y. Master-keyboard. No. 1,394,602; Oct. 25.
- Zents, Raymond P., Omaha, Nebr. Mold. No. 1,391,988; Sept. 27; v. 290; p. 918.
- Zeppigno, Rodolfo, assignor to Lancia & C., Turin, Italy. Device for mounting the springs in vehicles. No. 1,397,997; Nov. 22.
- Zerkle, Elwood R., Xenia, Ohio. Rotary motor. No. 1,372,586; Mar. 22; v. 284; p. 707.
- Zertuche, José G., Mexico, Mexico. Non-slip device. No. 1,389,416; Aug. 30; v. 289; p. 920.
- Zess, William C., Bethesda, Md. Diver's sandal. No. 1,383,049; June 28; v. 287; p. 683.
- Zetterlund, Theodor, assignor to Milwaukee Press & Machine Co., Milwaukee, Wis. Punch-press chuck. No. 1,397,307; Nov. 15.
- Zetterman, Axel, assignor of one-half to E. Nelson, New Britain, Conn. Butt and set gage. No. 1,397,569; Nov. 22.
- Zetzman, Walter, Cornelius, Oreg. Piston-ring remover. No. 1,366,857; Jan. 25; v. 282; p. 674.
- Zeuthen, Anders C. A., Silkeborg, Denmark. Churn or churn-kneader. No. 1,379,950; May 31; v. 286; p. 936.
- Zieba, John, Scranton, Pa. Toy scenery-box. No. 1,384,293; July 12; v. 288; p. 264.
- Ziebell, Arthur C., Oshkosh, Wis. Hydroplane. No. 1,364,470; Jan. 4; v. 282; p. 82.
- Ziebell, Harvey R., Ripon, Wis. Heater unit. No. 1,401,851; Dec. 27.
- Ziefel, Charles, and K. J. Gloekler, Pittsburgh, Pa. Show-case and counter-guard construction. No. 1,379,554; May 24; v. 286; p. 787.
- Ziegenbalg, Emil, San Antonio, Tex. Automobile-signal. No. 1,369,597; Feb. 22; v. 283; p. 673.
- Ziegler, Charles F., Los Angeles, Calif. Shoe-nailing device. No. 1,369,872; Mar. 1; v. 284; p. 23.
- Ziegler, Charles F., Los Angeles, Calif. Shoe-tacking machine. No. 1,386,752; Aug. 9; v. 289; p. 228.
- Ziegler, Edward E., Philadelphia, Pa. Hair-cutter. No. 1,385,937; July 26; v. 288; p. 758.
- Ziegler, George J., assignor of one-third to S. Gibbons, one-third to E. Stewart, and one-third to F. C. Beutel, Los Angeles, Calif. Flexible coupling. No. 1,380,330; May 31; v. 286; p. 1007.
- Ziegler, John, San Diego, Calif. Aeroplane. No. 1,376,305; Apr. 26; v. 285; p. 699.
- Ziegler, John, San Diego, Calif. Aeroplane. No. 1,376,306; Apr. 26; v. 285; p. 699.
- Ziegler, John, Perryville, Mo. Flood-gate. No. 1,382,589; June 21; v. 287; p. 541.
- Ziegler, Leslie I., assignor to Nordyke & Marmon Company, Indianapolis, Ind. Eccentric-shaft mounting. No. 1,373,930; Apr. 5; v. 285; p. 108.
- Ziegler, Oscar J., River Rouge, Mich. Apparatus for treating ore. No. 1,377,542; May 10; v. 286; p. 278.
- Ziegler, William M., assignor to The National Automatic Tool Company, Richmond, Ind. Universal joint. No. 1,367,578; Feb. 8; v. 283; p. 196.
- Ziegler, William M., and A. G. Sudhoff, assignors to The National Automatic Tool Co., Richmond, Ind. Rotating table for drilling-machines and the like. No. 1,367,579; Feb. 8; v. 283; p. 196.
- Zieley, John D., Summit, N. J., assignor, by mesne assignments to Universal Interests, Inc., New York, N. Y. Electric device. No. 1,389,235; Aug. 30; v. 289; p. 884.
- Ziemendorf, Fred W., Stevens Point, Wis. Non-skid device. No. 1,370,177; Mar. 1; v. 284; p. 80.
- Ziemendorf, Fred W., Neenah, Wis. Coupling for chains. No. 1,383,898; July 5; v. 288; p. 132.
- Zifferer, Lothar R., Lancaster, Pa. Receptacle. No. 1,381,390; June 14; v. 287; p. 254.
- Zifferer, Lothar R., Lancaster, Pa. Adjustable pipe-hanger. No. 1,392,810; Oct. 4.
- Zigler, Elmer, Fort Pierre, S. D. Tire-chain retainer. No. 1,382,045; June 21; v. 287; p. 438.
- Zigray, Martin, Chicago, Ill. Rivet-gage. No. 1,375,747; Apr. 26; v. 285; p. 591.
- Zilen, Victor W., Chattanooga, Tenn., assignor to Lucey Manufacturing Corporation of Tennessee. Elevator for casings or pipings. No. 1,368,779; Feb. 15; v. 283; p. 476.
- Zilen, Victor W., and R. E. Fair, assignors to Lucey Manufacturing Corporation, Chattanooga, Tenn. Well-casing wrench. No. 1,380,513; June 7; v. 287; p. 36.
- Zilliox, John, Orchard Park, N. Y. Wrench. No. 1,386,217; Aug. 2; v. 289; p. 51.
- Zim, Jesse G., Malden, Mass. Galley side-stick. No. 1,384,373; July 12; v. 288; p. 280.
- Zim, Jesse G., Malden, Mass. Galley end lock. No. 1,400,650; Dec. 20.
- Zimmer, Carl L. V., Berlin-Wilmersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Converting limestone into a compressible artificial stone. No. 1,391,710; Sept. 27; v. 290; p. 661.
- Zimmerle, Benjamin W., Sutton, Nebr. Penholder. No. 1,374,870; Apr. 12; v. 285; p. 330.
- Zimmerman, Albert G., et al., executors. (See Scherzer, Albert H.)
- Zimmerman, Benjamin F., Washington, D. C. Vacuum fuel-feed apparatus. No. 1,366,760; Jan. 25; v. 282; p. 655.
- Zimmerman, Charles R., Memphis, Tenn. Engraving-machine. No. 1,388,687; Aug. 23; v. 289; p. 720.
- Zimmerman, Clarence W., Venango, Nebr., assignor of one-half to James M. Fulton, Holyoke, Colo. Tire-deflation indicator. No. 1,398,992; Dec. 6.
- Zimmerman, Edward G., New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Furnace-eyesight. No. 1,376,498; May 3; v. 286; p. 23.
- Zimmerman, John. (See Zimmerman, Joseph E. and J.)
- Zimmerman, John, Jamaica, N. Y. Shelf-adaptor. No. 1,394,133; Oct. 18.
- Zimmerman, Joseph E., New York, and J. Zimmerman, Glendale, N. Y. House water-heating attachment for ranges. No. 1,369,598; Feb. 22; v. 283; p. 674.
- Zimmerman, Leo J., Ladysmith, Wis. Attachment for eyeglasses. No. 1,395,625; Nov. 1.
- Zimmerman, Martin B., Unionville, Conn. Child's vehicle. No. 1,381,954; June 21; v. 287; p. 421.
- Zimmerman, Thomas. (See Utz, J. G., and Zimmerman.)
- Zimmerman, Thomas, assignor to The Standard Parts Company, Cleveland, Ohio. Axle construction. No. 1,369,210; Feb. 22; v. 283; p. 599.
- Zimmerman, Thomas, assignor to The Standard Parts Company, Cleveland, Ohio. Axle. No. 1,388,397; Aug. 23; v. 289; p. 664.
- Zimmerman, William C. F., Jr., Davenport, Iowa. Stump-pulling apparatus. No. 1,364,345; Jan. 4; v. 282; p. 58.
- Zimmerman, William C. F., Jr., Davenport, Iowa. Cable take-up. No. 1,382,046; June 21; v. 287; p. 438.
- Zimmermann, Anna E. (See Zimmermann, Henry W. and A. E.)
- Zimmermann, Edward, Jr., Grand View, N. J. Reflector. No. 1,370,255; Mar. 1; v. 284; p. 95.
- Zimmermann, Edward W., New York, N. Y. Gas-heater. No. 1,372,470; Mar. 22; v. 284; p. 684.
- Zimmermann, Henry W., Cincinnati, Ohio, assignor to Badger Metal Ware Company, Milwaukee, Wis. Boiler. No. 1,371,718; Mar. 15; v. 284; p. 484.



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- Zimmermann, Paul G., Keyport, N. J., assignor to Aeromarine Plane & Motor Company, New York, N. Y. Aeroplane control. No. 1,375,199; Apr. 19; v. 285; p. 455.
- Zimmermann, Simon. (See Palosky, F. C., and Zimmermann.)
- Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Spindle-supporting member. (Reissue.) No. 15,161; July 19; v. 288; p. 564.
- Zimthaus, Arthur. (See Spaulding, Elijah F., assignor.)
- Zindel, Barney, Green Bay, Wis. Safety-gate for bridges. No. 1,364,421; Jan. 4; v. 282; p. 73.
- Zingsheim, Rudolph F. (See Bostrom, O. J., Waltman, and Zingsheim.)
- Zink, H. J., *et al.* (See Dungan, John E., assignor.)
- Zink, Herman F., Jr., Chicago, Ill. Telephone attachment. No. 1,391,087; Sept. 20; v. 290; p. 462.
- Zinn, Jacob H., Indianapolis, Ind. Sewer-structure invert section. No. 1,399,454; Dec. 6.
- Zinow, Charles, Oxford, Mich. Electric cord-holder. No. 1,365,762; Jan. 18; v. 282; p. 415.
- Zins, Hubert, Wabasso, Minn. Timer. No. 1,369,072; Feb. 22; v. 283; p. 572.
- Zinzel, George, assignor of one-half to C. H. Moore, Bath, N. Y. Auto-locking device. No. 1,400,928; Dec. 20.
- Zipfel, Alphons, Lachen, Switzerland. Weaving-head and manufacturing the same. No. 1,399,237; Dec. 6.
- Zipoy, Frank, Minneapolis, Minn. Automatic flag raising and lowering device. No. 1,373,376; Mar. 29; v. 284; p. 904.
- Zippel, Walter, Boston, Mass. Hair-drier. No. 1,370,394; Mar. 1; v. 284; p. 121.
- Zippler, Francis J., Avalon, assignor of one-half to C. M. Hoffert, Reading, Pa. Piston. No. 1,365,577; Jan. 11; v. 282; p. 339.
- Zippler, Francis J., Avalon, assignor of one-half to C. M. Hoffert, Reading, Pa. Piston. No. 1,365,578; Jan. 11; v. 282; p. 340.
- Zirwas, Albert C. and D. Donovan, Waukegan, Ill. Process and apparatus for the utilization of stable products for making fertilizer. No. 1,369,871; Mar. 1; v. 284; p. 23.
- Ziska, Adam, Jr., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Mudguard. No. 1,373,990; Apr. 5; v. 285; p. 120.
- Ziska, Adam, Jr., assignor, by mesne assignments, to A. O. Smith Corporation, Milwaukee, Wis. Apparatus for cleaning metal sheets and plates. No. 1,386,547; Aug. 2; v. 289; p. 114.
- Ziska, Adam, Jr., assignor to Milwaukee Press & Machine Company, Milwaukee, Wis. Crosshead pitman connection. No. 1,397,308; Nov. 15.
- Zitella, William, Adamston, W. Va. Rail-joint. No. 1,383,050; June 28; v. 287; p. 683.
- Zitzman, Edward J. (See Riley, Francis P., assignor.)
- Zlab, Frank, Wilber, Nebr. Weight-motor. No. 1,369,599; Feb. 22; v. 283; p. 674.
- Zlotorowicz, Mike, *et al.* (See Swinti, Alix, assignor.)
- Zobel, Charles A., Phoenix, Ariz. Railway-crossing. No. 1,383,899; July 5; v. 288; p. 133.
- Zobell Electric Motor Corporation. (See Parvin, Edward G., assignor.)
- Zübl, Rafael, Vienna, Austria. Separable fastener. No. 1,368,316; Feb. 15; v. 283; p. 385.
- Zoda, Michael. (See Pantaleone, J., and Zoda.)
- Zofsak, John J., Greensburg, Pa. Washing-machine. No. 1,388,542; Aug. 23; v. 289; p. 692.
- Zoia, Hector, Warrensville, Ohio. Service-holder for carrying dishes. No. 1,369,999; Mar. 1; v. 284; p. 47.
- Zolleis, John G., Newark, N. J. Valve-handle. No. 1,373,476; Apr. 5; v. 285; p. 19.
- Zoller, Arnold, Berlin, assignor to Argus-Motoren-Gesellschaft m. b. H., Berlin-Reinickendorf-Ost, Germany. Operating mechanism for power-driven vehicles. No. 1,395,993; Nov. 1.
- Zoltowski, John, Milwaukee, Wis. Waterproofing leather, cloth, or wood. No. 1,391,088; Sept. 20; v. 290; p. 462.
- Zondlo, Andrew, Passaic, N. J. Music-stand. No. 1,368,317; Feb. 15; v. 283; p. 385.
- Zook, Annabelle F., Lewistown, Mont. Flour-sifter. No. 1,397,478; Nov. 15.
- Zoph, Norman M. (See Penniman, R. S., Jr., and Zoph.)
- Zoppel, Ferdinand J., Cincinnati, Ohio. Compressor. No. 1,370,577; Mar. 8; v. 284; p. 201.
- Zoppel, Ferdinand J., Cincinnati, Ohio. Condenser. No. 1,391,989; Sept. 27; v. 290; p. 718.
- Zorn, John B., Kansas City, Mo. Ice shaver and cracker. No. 1,385,294; July 19; v. 288; p. 551.
- Zortman, Charles E., Pittsburgh, Pa. Derailing device. No. 1,368,008; Feb. 8; v. 283; p. 277.
- Zorzi, Carlo, Milan, Italy. Pump for feeding hydrocarbon-motors. No. 1,370,000; Mar. 1; v. 284; p. 47.
- Zottoli, Anthony M., Quincy, Mass. Method of and apparatus for making building-blocks. No. 1,374,270; Apr. 12; v. 285; p. 213.
- Zouck, George H., Orange, N. J., assignor to Air Reduction Company, Incorporated. Blowpipe. No. 1,372,735; Mar. 29; v. 284; p. 776.
- Zouck, George H., Orange, N. J., and G. L. Walker, New York, N. Y., assignors to Air Reduction Company, Inc. Blowpipe. No. 1,376,991; May 3; v. 286; p. 116.
- Zoulek, Joseph, East Jordan, Mich. Combined porch-swing and invalid-couch. No. 1,366,625; Jan. 25; v. 282; p. 629.
- Zsarnay, Béla, Belleville, N. J. Aeroplane. No. 1,397,196; Nov. 15.
- Zsarnay, Béla, Belleville, assignor of one-half to A. Lewis, Newark, N. J. Polisher and grinder for wood and metal manufacturers. No. 1,388,231; Aug. 23; v. 289; p. 630.
- Zsarnay, Béla, Belleville, assignor of one-half to A. Lewis, Newark, N. J. Figure toy. No. 1,388,232; Aug. 23; v. 289; p. 630.
- Zsarnay, Béla, Belleville, assignor of one-half to A. Lewis, Newark, N. J. Automatic water-drive for toys and machinery. No. 1,391,158; Sept. 20; v. 290; p. 476.
- Zsarnay, Béla, Belleville, assignor of one-half to A. Lewis, Newark, N. J. Figure toy. No. 1,397,195; Nov. 15.
- Zubler, Camp M., assignor of one-half to J. J. Davies, Jr., Philadelphia, Pa. Indent hardness-gage. No. 1,393,989; Oct. 18.
- Zubryd, Anton, Jersey City, N. J. Rocking-chair attachment. No. 1,401,229; Dec. 27.
- Zubryd, Antoni, Jersey City, N. J. Musical rocking-chair. No. 1,394,393; Oct. 18.
- Zucker, Gottlieb F., Chicago, Ill. Engine-support clamp. No. 1,373,546; Apr. 5; v. 285; p. 33.
- Zucker, Gottlieb F., Chicago, Ill. Gas-engine. No. 1,399,283; Dec. 6.
- Zuelzer, Georg, Charlottenburg, near Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Making means for reducing blood-pressure. No. 1,399,535; Dec. 6.
- Zuhars, Benjamin C., and H. D. Clarke, assignors to The Ohio Tractor Company, Columbus, Ohio. Wheel-hub. No. 1,374,133; Apr. 5; v. 285; p. 146.
- Zukowski, John, Hamtramck, Mich. Stove. No. 1,387,824; Aug. 16; v. 289; p. 494.
- Zukowski, Tony, Bristol, Conn. Multiple wrench. No. 1,389,417; Aug. 30; v. 289; p. 920.
- Zulch, William, Cobleskill, N. Y. Silo-hoop tightener. No. 1,388,012; Aug. 16; v. 289; p. 530.
- Zulver, Cornelis. (See Smith, L. E. Zulver, and Thompson.)
- Zulver, Cornelis, *et al.* (See Thompson, Herbert A., assignor.)
- Zumwalt, Alva E., Caney, Kans. Making and repairing piston-rods. No. 1,374,624; Apr. 12; v. 285; p. 282.
- Zuraweki, Petro, Perth Amboy, N. J. Code-reading instrument. No. 1,370,870; Mar. 8; v. 284; p. 257.
- Zurbrigg, Daniel A., assignor to The L. D. Caulk Company, Milford, Del. Dental instrument. No. 1,382,401; June 21; v. 287; p. 505.
- Zurcan, Lioni, Stenen, Saskatchewan, Canada. Railway-crossing. No. 1,386,670; Aug. 9; v. 289; p. 211.
- Zurovec, Wilhelm, Fischamend, near Vienna, German Austria. Captive flying-machine of the helicopter type. No. 1,389,925; Sept. 6; v. 290; p. 74.
- Zurovec, Wilhelm, Jr., Fischamend, near Vienna, German Austria. Captive flying-machine of the helicopter type. No. 1,397,998; Nov. 22.
- Zurowsky, Jack. (See Kuc, Wasyl, assignor.)
- Zuruk-Zurinsky, John, McKeesport, Pa. Aeroplane. No. 1,381,611; June 14; v. 287; p. 296.
- Zutman, Morris, Chicago, Ill. Vehicle-top. No. 1,390,418; Sept. 13; v. 290; p. 264.
- Zütter, Maurice, Paris, France. Hinge for doors and the like. No. 1,400,130; Dec. 13.
- Zwart, Gerrit C. (See Zwart, John C. and G. C.)
- Zwart, John C. and G. C., Glenbrook, Conn. Rail-clamp. No. 1,381,955; June 21; v. 287; p. 422.
- Zweigbergk, Thorsten, London, England. Electric locomotive. No. 1,401,575; Dec. 27.
- Zwely, Charles W., Willow Springs, Ill. Baking-oven. No. 1,366,686; Jan. 25; v. 282; p. 640.
- Zwicker, Julius G., Berkeley, Calif. Thread-mold for concrete pipe. No. 1,365,014; Jan. 11; v. 282; p. 231.
- Zwicker, Julius G., Berkeley, Calif. Wire-coil-making machine. No. 1,365,015; Jan. 11; v. 282; p. 232.
- Zwicky, Melchior, assignor to Textile Machine Works, Wyomissing, Pa. Jack mechanism for full-fashioned knitting-machines. No. 1,371,535; Mar. 15; v. 284; p. 450.
- Zwicky, Melchior, assignor to Textile Machine Works, Wyomissing, Pa. Narrowing safety-stop for full-fashioned knitting-machines. No. 1,381,444; June 14; v. 287; p. 265.
- Zwilling, Theodore F., Upper Sandusky, Ohio. Paper-holder. No. 1,378,753; May 17; v. 286; p. 563.
- Zybach, Frank L., Grand Island, Nebr. Automatic tractor-guide. No. 1,390,419; Sept. 13; v. 290; p. 264.
- Zych, Wojciech, Elizabeth, N. J. Window-lock. No. 1,386,671; Aug. 9; v. 289; p. 211.
- Zygalski, John R., New Haven, Conn. Explosive-engine. No. 1,383,689; July 5; v. 288; p. 90.
- Zygmant, Joseph, Greenwich, Conn. Rail-joint. No. 1,385,197; July 19; v. 288; p. 533.
- Zygmant, Jozef, Greenwich, Conn. Automobile-body. No. 1,395,544; Nov. 1.
- Zyskowski, Stanislaw, Wilkes-Barre, Pa. Curtain and shade holding device. No. 1,371,014; Mar. 8; v. 284; p. 284.
- Zyskowski, Stanislaw, Wilkes-Barre, Pa. Closure-fastener for ash-sifters. No. 1,373,851; Apr. 5; v. 285; p. 92.



# ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

- Abate, Santo, and J. Buonincontri, Irvington, N. J. Tension device for knitting. No. 59,449; Oct. 25.
- Acme Shear Company, The. (See Conway, John J., assignor.)
- Adam, Harry C., St. Louis, Mo. Lighting-fixture. Nos. 56,844-6; Jan. 4; v. 282; p. 157.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture urn. Nos. 57,413-17; Mar. 29; v. 284; p. 909.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture. Nos. 57,418-21; Mar. 29; v. 284; p. 910.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture urn. No. 57,562; Apr. 26; v. 285; p. 716.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture. No. 57,563; Apr. 26; v. 285; p. 716.
- Adam, Harry C., St. Louis, Mo. Wall-plate for lighting-fixture. No. 58,985; Sept. 13; v. 290; p. 378.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture urn. No. 58,986; Sept. 13; v. 290; p. 378.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture. Nos. 60,000-1; Dec. 20.
- Adam, Harry C., St. Louis, Mo. Lighting-fixture body. Nos. 60,002-3; Dec. 20.
- Adam, Harry C., St. Louis, Mo. Semi-indirect lighting-fixture reflector. No. 60,004; Dec. 20.
- Adam, Harry C., St. Louis, Mo. Combined wall-bracket and lamp. No. 60,005; Dec. 20.
- Adamec, C. George, Milwaukee, Wis. Toy. No. 59,805; Nov. 29.
- Adams, Henry T., Manufacturing Company. (See Adams, Henry T., assignor.)
- Adams, Henry T., assignor to Henry T. Adams Manufacturing Company, Chicago, Ill. Desk-pad corner-clip. No. 60,006. Dec. 20.
- Adelmann, Hans, assignor to Ham Boiler Corp., New York, N. Y. Meat-loaf-cooker receptacle. No. 59,171; Oct. 4.
- Adelson-Chambers Jewelry Company. (See Chambers, Jess L., assignor.)
- Adler, Milton D., New York, N. Y. Article of manufacture. No. 56,957; Jan. 25; v. 282; p. 684.
- Adman, Louis, assignor to Pioneer Braid Manufacturing Co., Inc., New York, N. Y. Braid. No. 59,532; Nov. 1.
- Adrian, Adrian D., Brooklyn, N. Y. Toy bow. No. 59,317; Oct. 11.
- Ahl, Niels C. (See Phillips, J. P., and Ahl.)
- Aimone, Raimondo C., New Rochelle, N. Y., assignor to New Jersey Patent Company, West Orange, N. J. Phonograph-cabinet. Nos. 57,564-65; Apr. 26; v. 285; p. 716.
- Ainsworth, Albert, Swarthmore, assignor to Becker, Smith & Page, Philadelphia, Pa. Embossed wall-paper. Nos. 58,527-9; Aug. 2; v. 289; pp. 123-4.
- Ajax Rubber Company, Inc. (See Gardner, Charles T., assignor.)
- Ajax Rubber Company Inc. (See McMahan, William W., assignor.)
- Ajax Rubber Company, Inc. (See Reid, Elmer E., assignor.)
- Akron Universal Tire and Rubber Company, The. (See Baker, Corol R., assignor.)
- Alderfer, John M., Akron, Ohio. Elastic vehicle-tire. No. 57,566; Apr. 26; v. 285; p. 716.
- Alderfer, John M., Akron, Ohio. Tire. No. 58,419; July 19; v. 288; p. 565.
- Alexander, Arthur S., assignor to The J. Alexander Manufacturing Company, New York, N. Y. Bezel. Nos. 58,126-8; June 14; v. 287; p. 352.
- Alexander, George W., Brooten, Minn. Child's bank. No. 58,055; June 7; v. 287; p. 150.
- Alexander, J., Manufacturing Company, The. (See Alexander, Arthur S., assignor.)
- Alexander, Laura E., Indianapolis, Ind. Doll. No. 58,863; Sept. 6; v. 290; p. 141.
- Alfred Vester, Sons, Inc. (See Howell, Hamilton T., assignor.)
- Alig, Cannie M. (See Baird, E., and Alig.)
- Allen, Archibald K. and C. A., Seattle, Wash. Tire. No. 59,806; Nov. 29.
- Allen, Charles J. (See Howard, J. M., and Allen.)
- Allen, Clarence A. (See Allen, Archibald K. and C. A.)
- Allen, Edward G., and A. A. Hagar, Seattle, Wash., assignors of one-third to W. H. Bullinger, Los Angeles, Calif. Casing for scales. No. 57,960; May 24; v. 286; p. 797.
- Allen, Erhard, assignor to The Dayton Display Fixture Company, Dayton, Ohio. Display-rack. No. 59,053; Sept. 20; v. 290; p. 578.
- Allen, George, South Bend, Ind. Nut-wrench. No. 57,068; Feb. 8; v. 283; p. 321.
- Allen, George, South Bend, Ind. Pipe-wrench. No. 57,069; Feb. 8; v. 283; p. 321.
- Allen, Grosvenor N., Oneida, N. Y. Handle for a spoon, knife, fork, or analogous utensil. No. 59,401; Oct. 18.
- Allen, John E., Big Creek, Calif. Automobile-body. No. 59,318; Oct. 11.
- Allen, Louise R., New York, N. Y. Chain-pull for electrical-lamp sockets. No. 59,054; Sept. 20; v. 290; p. 578.
- Allen, S. L., & Co. (See Sandt, Arthur R., assignor.)
- Allen-Tire & Rubber Company. (See Dunbar, Wilmer, assignor.)
- Allison, Estelle V., New York, N. Y. Dressed doll. No. 58,297; July 12; v. 288; p. 357.
- Allison, Estelle V., New York, N. Y. Doll. Nos. 58,298-300; July 12; v. 288; p. 358.
- Alpha Phi Alpha Fraternity. (See McGhee, Normal L., assignor.)
- Altenburg, Eric P., Columbiana, Ohio. Tire. No. 57,070; Feb. 8; v. 283; p. 322.
- Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Vacuum-insulated jug and casing therefor. No. 57,567; Apr. 26; v. 285; p. 716.
- Altorfer, Alpheus W., Peoria, Ill., assignor, by mesne assignments, to Central Trust Company of Illinois. Wringer-frame. No. 57,422; Mar. 29; v. 284; p. 910.
- Altruza, Pasquale, Providence, R. I. Rubber heel. No. 59,807; Nov. 29.
- Amati, Frank, Trenton, N. J. Finger-ring. No. 58,008; May 31; v. 286; p. 1010.
- Ambrosiewicz, Bronislaw, Hamtramck, Mich. Sewing-machine arm. No. 58,420; July 19; v. 288; p. 565.
- American Bank Note Company. (See Major, Alfred S., assignor.)
- American Can Company. (See Corey, Harry R., assignor.)
- American Can Company. (See Eberhart, Felix, assignor.)
- American Can Company. (See Hoffman, Edmund, assignor.)
- American Can Company. (See Hothersall, John M., assignor.)
- American Can Company. (See Jones, Harry W., assignor.)
- American Can Company. (See Nowack, Charles H., assignor.)
- American Chain Company. (See Benton, Donald L., assignor.)
- American Electrical Heater Company. (See Kuhn, F., and Hand, assignors.)
- American Encaustic Tiling Co. (See Lillibridge, Harry D., assignor.)
- American Fabrics Company, The. (See Monk, Thomas, assignor.)
- American Fabrics Company, The. (See Page, Samuel H., assignor.)
- American Fabrics Company, The. (See Philips, Hans A., assignor.)
- American Fabrics Company, The. (See Page, Samuel H., assignor.)
- American Gas-Accumulator Company. (See Medén, Elof H., assignor.)
- American La France Fire Engine Co. (See Knoblock, James W., assignor.)
- American Optical Company. (See Hill, Harry W., assignor.)
- American Optical Company. (See Schumacher, E. L., and Boutelle, assignors.)
- American Piano Company. (See Kavanaugh, Gardner C., assignor.)
- American Radiator Company. (See Courtot, Louis, assignor.)
- American Radiator Company. (See Mertzanoff, André M., assignor.)
- American Soldier Company. (See Belser, Charles W., assignor.)
- American Spotless Street System. (See Richardson, George J., assignor.)
- American Stove Company. (See Farnham, Charles F., assignor.)
- American Tire Corporation, The. (See McCormish, William E., assignor.)
- American Wholesale Corporation. (See Bastow, Carrodus, assignor.)
- American Vulcanized Fibre Company. (See Sutton, Claude W., assignor.)
- Ames, Raymond R. (See Norman, E., and Ames.)
- Amnden, Loriston F., Baltimore, Md., assignor of one-half to H. C. Mitchell, New York, N. Y. Supplementary waist for men's overcoats. No. 58,301; July 12; v. 288; p. 358.
- Anable, Clarence E. (See De Lue, E. A. and Anable.)
- Anderson, Carl E., Stratford, assignor to The Bryant Electric Company, Bridgeport, Conn. Handle for electric switches. No. 57,098; Feb. 22; v. 283; p. 709.
- Anderson, Carl O., Brooklyn, N. Y. Cotter-pin puller. No. 58,453; July 26; v. 288; p. 767.
- Anderson, Frank, assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Bedstead end frame. Nos. 59,572-3; Nov. 8.
- Anderson, Henry C., Athens, Ga. Bottle. No. 58,203; June 28; v. 287; p. 726.
- Anderson, Isabel, Chicago, Ill. Combination belt-buckle and locket. No. 58,204; June 28; v. 287; p. 726.



- Anderson, Lee, Fostoria, Ohio. Grave-cover. No. 59,172; Oct. 4.
- Anderson, Reuben N., Youngstown, Ohio. Amusement aeroplane. No. 58,056; June 7; v. 287; p. 150.
- Anderson, Victor A., Elmwood Park, Ill. Wrench. No. 58,454; July 26; v. 288; p. 767.
- Andrews, Charles, Jr., assignor to Andrews Wire & Iron Works, Rockford, Ill. Frame for ovenware. Nos. 58,205-7; June 28; v. 287; pp. 726-7.
- Andrews, Frank W., Wapakoneta, Ohio. Fire-extinguisher. No. 59,319; Oct. 11.
- Andrews Wire & Iron Works. (See Andrews, Charles, Jr., assignor.)
- Angerstein, Thomas C., Chicago, Ill. Road-guide. No. 57,569; Apr. 26; v. 285; p. 717.
- Angerstein, Thomas C., Chicago, Ill. Road-marker. No. 57,568; Apr. 26; v. 285; p. 717.
- Anibal, Benjamin H., Highland Park, assignor to General Motors Corporation, Detroit, Mich. Face-plate for combination indicating instruments for motor-driven vehicles. No. 58,530; Aug. 2; v. 289; p. 124.
- Anibal, Benjamin H., Highland Park, assignor to General Motors Corporation, Detroit, Mich. Face-plate for switch mechanism for motor-driven vehicles. No. 58,531; Aug. 2; v. 289; p. 124.
- Anibal, Benjamin H., Highland Park, assignor to General Motors Corporation, Detroit, Mich. Instrument-board for motor-vehicles. No. 58,532; Aug. 2; v. 289; p. 124.
- Ansorge, Percy I., Brooklyn, N. Y. Lighting-fixture part. No. 57,423; Mar. 29; v. 284; p. 910.
- Anzell, Alexander A., New York, N. Y. Surgical mirror. No. 58,533; Aug. 2; v. 289; p. 124.
- Apex Appliance Company. (See Swanson, Carl W., assignor.)
- Apfel, Joseph S., New York, N. Y. Boudoir-lamp or the like. No. 58,864; Sept. 6; v. 290; p. 141.
- Apfel, Joseph S., New York, N. Y. Boudoir-lamp. No. 58,865; Sept. 6; v. 290; p. 141.
- Archer Tire & Rubber Company. (See Hudson, Phineas C., assignor.)
- Arend, Armin C. H., Cincinnati, Ohio. Badge, pin, emblem, charm, or similar article. No. 58,695; Aug. 30; v. 289; p. 952.
- Armcast, William E., assignor to The Columbus Tire & Rubber Company, Columbus, Ohio. Rubber tire. No. 57,759; May 3; v. 286; p. 151.
- Armstrong Cork Company. (See Swarr, Howard G., assignor.)
- Armstrong, Henry W., New Haven, Conn. Tweezer. No. 58,208; June 28; v. 287; p. 727.
- Armstrong, John R., Cranston, R. I. Washer. No. 56,847; Jan. 4; v. 282; p. 158.
- Arndt, George A., assignor to E. G. Johanson, Chicago, Ill. Headlight-reflector. No. 58,455; July 26; v. 288; p. 767.
- Arnold, Arthur G., Glendale, Calif., assignor to National Carbon Company, Inc. Flashlight-head. No. 57,760; May 3; v. 286; p. 151.
- Arrousez, Frank P. (See Hollins, W. C., and Arrousez.)
- Arrow Electric Company, The. (See Harrington, William H., assignor.)
- Art Rattan Works. (See Ferreira, Charles E., assignor.)
- Artcraft Fixture Company. (See Walker, Ernest A., assignor.)
- Arter, Addison A., Omaha, Nebr. Tire. No. 57,295; Mar. 15; v. 284; p. 539.
- Artz, Laura L., Seattle, Wash. Figurette. No. 59,450; Oct. 25.
- Asaturian, Setrak, New York, N. Y. Spinning-top. No. 58,866; Sept. 6; v. 290; p. 141.
- Ashton Valve Company, The. (See Gaston, Charlie, assignor.)
- Aspinwall, Robert S., Detroit, Mich. Lighting-fixture. Nos. 56,848-9; Jan. 4; v. 282; p. 158.
- Aston Casket Hardware Co. (See Aston, Frank B., assignor.)
- Aston, Frank B., assignor to Aston Casket Hardware Co., Elgin, Ill. Casket-handle. No. 59,946; Dec. 13.
- Atherley, Harry C. and J. E., San Francisco, Calif. Combined telephone-cover and lamp-stand. No. 59,882; Dec. 6.
- Atherley, James E. (See Atherley, Harry C. and J. E.)
- Atkinson, Henry T., Oakland, and B. Vale, San Francisco, Calif.; said Vale assignor to said Atkinson. Toy vehicle. No. 57,099; Feb. 22; v. 283; p. 709.
- Atkinson, Milford J., Mimico, Ontario, Canada. Automobile-tire. No. 57,071; Feb. 8; v. 283; p. 322.
- Atkinson, William R., Harrisburg, Pa. Emblem, badge, pin, fob, ring, or like article. No. 57,296; Mar. 15; v. 284; p. 539.
- Atlantic Knitting Mills Inc. (See Bettmann, Jesse W., assignor.)
- Attwood, Charles F., Grand Rapids, Mich. Automobile window-bracket. No. 59,320; Oct. 11.
- Attwood, Seth B., Rockford, Ill. Door-bumper. No. 59,173; Oct. 4.
- Attwood, William J. (See Richardson, A. G., and Attwood.)
- Auerbach, Herbert T., Buffalo, N. Y. Tread for a vehicle-tire. No. 57,297; Mar. 15; v. 284; p. 539.
- Auerbach, Joseph S., New York, N. Y. Block of candy. No. 57,298; Mar. 15; v. 284; p. 539.
- Aultman, Joseph T., Milwaukee, Wis. Advertising-sign. No. 59,055; Sept. 20; v. 290; p. 578.
- Austen Cologne Company, The, New York, N. Y. Salve for sores, cuts, and piles. No. 145,599; Aug. 16; v. 289; p. 591.
- Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator. No. 59,947; Dec. 13.
- Austin, Ellsworth W., Plymouth, Conn. Radiator-cap. No. 57,761; May 3; v. 286; p. 151.
- Automatic Recording Safe Company, The. (See Fisher, Charles, assignor.)
- Automotive Radiator Machine Company. (See Thompson, Elmer B., assignor.)
- Autoyre Company, The. (See Mosgrove, Charles A., assignor.)
- Avery, True M., Glens Falls, N. Y. Lifting-jack. No. 59,883; Dec. 6.
- B. & C. Mfg. Co., St. Louis Park, Minn. Non-intoxicating, maltless beverage. No. 145,603; Aug. 16; v. 289; p. 591.
- Babcock, A. P. Company, New York, N. Y. Talcum powder. No. 145,600; Aug. 16; v. 289; p. 591.
- Bacheller, Edward F., Lynn, assignor of one-half to J. H. Stewart, Lynnfield, Mass. Golf-putter head. No. 58,209; June 28; v. 287; p. 727.
- Badge, Francis J. (See Keller, J. F., and Badge.)
- Baer, Lawrence E., Attleboro, Mass. Collar-holder. No. 58,129; June 14; v. 287; p. 353.
- Bagley, Raleigh A., Suffolk, Va. Medicinal lozenge. No. 145,601; Aug. 16; v. 289; p. 591.
- Bailey, Charles W., Philadelphia, Pa. Finger-ring. No. 59,948; Dec. 13.
- Bailey, James H., New York, assignor to Tuttle & Bailey Mfg. Co., Brooklyn, N. Y. Savings-bank. No. 57,100; Feb. 22; v. 283; p. 709.
- Baird, Edna and C. M. Alig, Des Moines, Iowa. Doll. No. 59,533; Nov. 1.
- Baj, J., and L. Marciniak, Port Chester, N. Y. Flytrap. No. 58,009; May 31; v. 286; p. 1010.
- Baker, Corol R., Akron, assignor to The Akron Universal Tire and Rubber Company, Medina, Ohio. Rubber-tire casing. Nos. 59,321-2; Oct. 11.
- Baker, Edward E., Pittsfield, Mass. Bottle. No. 60,081; Dec. 27.
- Baker, Hylda M., Atherton, Calif. Toy animal. No. 57,299; Mar. 15; v. 284; p. 539.
- Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Liquid-dispensing apparatus. No. 58,176; June 21; v. 287; p. 546.
- Baker, Linnaeus E., assignor to Wayne Oil Tank and Pump Company, Fort Wayne, Ind. Apparatus for housing hose. No. 59,949; Dec. 13.
- Balda, Joseph O., Newark, Ohio, assignor to Central Glass Works, Wheeling, W. Va. Glass goblet or similar article of manufacture. No. 57,570; Apr. 26; v. 285; p. 717.
- Balda, Joseph O., assignor to A. H. Heisey & Co., Newark, Ohio. Surface ornamentation applied to an article of manufacture. No. 57,806; May 10; v. 286; p. 368.
- Balda, Joseph O., assignor to A. H. Heisey & Co., Newark, Ohio. Goblet. No. 59,451; Oct. 25.
- Baldinger, Robert J., assignor to Harrison Fixture Works, Brooklyn, N. Y. Lamp-stand. No. 58,284; July 5; v. 288; p. 163.
- Baldwin, Bernard, Los Angeles, Calif. Match-scratcher. No. 60,007; Dec. 20.
- Balliet, Herbert S. (See Solan, P. F., and Balliet.) (Reissue.)
- Balliett, Carl J., assignor to Foster-Milburn Company, Buffalo, N. Y. Plaque or thermometer-support. No. 57,460; Apr. 5; v. 285; p. 154.
- Balthazar, Arthur, Chicopee Falls, and M. R. Shaw, Springfield, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 57,751; Apr. 26; v. 285; p. 717.
- Bannhr, Fredericka L., Atlantic City, N. J. Combination brassiere-girdle. No. 59,574; Nov. 8.
- Barber, Cyrus L. (See McCormick, Ulysses S., assignor.)
- Barber, William J. (See Kerr, H. E., and Barber.)
- Barcalo Manufacturing Company. (See Anderson, Frank, assignor.)
- Barcalo Manufacturing Company. (See Safford, Lewis A., assignor.)
- Barchoff, Abraham, New York, N. Y. Handle for trays or some similar articles. Nos. 59,534-5; Nov. 1.
- Bargar, Frederick C., assignor to The Nu-Ex Fire Appliance Company, Columbus, Ohio. Fire-extinguisher casing. No. 56,906; Jan. 18; v. 282; p. 529.
- Baribault, Lucien J., West Haven, assignor of one-half to L. M. Rymán, New Haven, Conn. Velocipede-frame. Nos. 57,807-8; May 10; v. 286; p. 368.
- Baring, William J., Richmond, Calif. Tea or coffee pot. No. 58,697; Aug. 30; v. 289; p. 952.
- Barnaby, Thomas, Middletown, Ohio. Dancing toy. No. 58,285; July 5; v. 288; p. 163.
- Barnes, Horace, Seattle, Wash. Radiometer-case. No. 57,762; May 3; v. 286; p. 151.
- Barney, Arthur L., assignor to Tiffany & Company, New York, N. Y. Handle for a spoon, fork, or similar article. No. 59,452; Oct. 25.
- Baron, Alexander, Brooklyn, N. Y. Holster for toy pistols. No. 59,536; Nov. 1.
- Baron, Mary C., Hampden Meadows, R. I. Moisture-tank for a brooder-heater. No. 57,572; Apr. 26; v. 285; p. 717.



## Alphabetical list of patentees of designs—Continued.

- Baron, Mary C., Hampden Meadows, R. I. Brooder-hood. No. 57,573; Apr. 26; v. 285; p. 717.
- Barrows, Robert Y., Rutherford, N. J. Bowl for lighting-fixtures. Nos. 57,300-1; Mar. 15; v. 284; p. 540.
- Barth, L., & Son. (See Engelhardt, Martin M., assignor.)
- Bartholomew, Kate L., Portland, Oreg. Cap. Nos. 58,302-3; July 12; v. 288; pp. 358-9.
- Bartlett, Harry O., assignor to Bowers & Bartlett, Inc., Washington, D. C. Gear-casing for washing-machines. No. 57,809; May 10; v. 286; p. 368.
- Bartlett, Harry O., assignor to Bowers & Bartlett, Inc., Washington, D. C. Frame for a clothes-wringer. No. 58,010; May 31; v. 286; p. 1010.
- Bartlett, Margaret S. (See Herman, Raymond L., assignor.)
- Bartley, William A., Washington, N. J. Sectional sash-weight. Nos. 57,810-11; May 10; v. 286; p. 368.
- Bartolowsky, Jerome, Oakland, Calif. Toy whistle. No. 59,323; Oct. 11.
- Barton, Beatrice E. M., Birmingham, England. Masonic pendant. No. 58,304; July 12; v. 288; p. 359.
- Barton, Robert F., Papillion, Nebr. Garden-hoe. No. 57,302; Mar. 15; v. 284; p. 540.
- Bassick Company, The. (See Herold, Walter F., assignor.)
- Bassick Manufacturing Company, The. (See Gullborg, Arthur V., assignor.)
- Basten, Otto, assignor to Sterling Tire Corporation, Rutherford, N. J. Tire. No. 57,881; May 17; v. 286; p. 579.
- Bastian Bros. Co. (See Holley, Frank A., assignor.)
- Bastow, Carrodus, Allwood, N. J., assignor to American Wholesale Corporation, Baltimore, Md. Oilcloth table-cover. No. 60,082; Dec. 27.
- Batavia Rubber Company, The. (See Kling, Ernest F., assignor.)
- Batavia Rubber Company. (See Yost, Helen S., assignor.)
- Bates, George E., Syracuse, N. Y. Direction-indicator for vehicles. No. 58,536; Aug. 2; v. 289; p. 125.
- Bath, John, & Co. (See Bath, John, assignor.)
- Bath, John, assignor to John Bath & Co., Inc., Worcester, Mass. Ring-gage. No. 56,850; Jan. 4; v. 282; p. 158.
- Batterton, Eva B., Springfield, Ill. Printed fabric. No. 59,808; Nov. 29.
- Battin, Robert G. (See Jones, Lee B. and E. W., and Battin.)
- Bauer, Frederick C., Sr., Camden, N. J. Spike. No. 58,456; July 26; v. 288; p. 768.
- Bauer, Frederick C., Sr., Camden, N. J. Spike. No. 59,324; Oct. 11.
- Baum, Hugo, New York, N. Y. Doll. No. 57,489; Apr. 12; v. 285; p. 336.
- Baxter, Robert H., Brooklyn, N. Y., assignor to Defiance Manufacturing Company. Calendar-stand base. No. 58,867; Sept. 6; v. 290; p. 141.
- Bay State Optical Company. (See Clulce, Stephen J., assignor.)
- Beach, Harry L., Coshocton, Ohio. Match-box holder. No. 59,402; Oct. 18.
- Beach, Harry L., Coshocton, Ohio. Metal rack. No. 59,617; Nov. 15.
- Beach, Harry L., Coshocton, Ohio. Display-stand. No. 59,618; Nov. 15.
- Beach-Wagstaff Rubber Corporation. (See Schneider, Jules E., assignor.)
- Bead Chain Manufacturing Company, The. (See Gagnon, William J., assignor.)
- Bead Chain Manufacturing Company, The. (See Goodridge, Gilbert W., assignor.)
- Beadle, George W., New Rochelle, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Correction-indicator for a dictation-machine. No. 58,537; Aug. 2; v. 289; p. 125.
- Beardmore, Clarence A., Annapolis, Md. Indicator for automobiles. No. 57,763; May 3; v. 286; p. 152.
- Beatty, William F., Cincinnati, Ohio. Soda-fountain and ice-cream-dispensing apparatus. No. 58,011; May 31; v. 286; p. 1010.
- Beatty, William F., Cincinnati, Ohio. Soda-fountain and ice-cream-dispensing apparatus. No. 58,657; Aug. 9; v. 289; p. 367.
- Beaulieu, Peter F., assignor to one-half to E. C. Landingham, Bend, Oreg. Motometer. No. 58,698; Aug. 30; v. 289; p. 952.
- Beauregard, Victor, Boston, Mass. Finger-nail tool. No. 58,210; June 28; v. 287; p. 727.
- Beaver Machine & Tool Company. (See Downing, John B., assignor.)
- Beaver Machine & Tool Company. (See Streun, Louis J., assignor.)
- Bechtold, William S., Newark, N. J. Back of a mirror, brush, or similar toilet article. No. 58,421; July 19; v. 288; p. 565.
- Beck, August B., Jersey City, N. J. Lady's girdle. No. 58,987; Sept. 13; v. 290; p. 378.
- Becker, Abraham S., Baltimore, Md. Corset. No. 59,537; Nov. 1.
- Becker, Daniel L., Oakland, Calif. Vehicle-tire. No. 57,303; Mar. 15; v. 284; p. 540.
- Becker, Daniel L., Oakland, Calif. Vehicle-tire. No. 59,699; Nov. 22.
- Becker, Henry M., Hartford, Conn. Game. No. 58,012; May 31; v. 286; p. 1011.
- Becker, Matthew G., Chicago, Ill. Box-tray or article of similar nature. No. 58,538; Aug. 2; v. 289; p. 125.
- Becker, Smith & Page. (See Ainsworth, Albert, assignor.)
- Beiser, Charles W., Brooklyn, N. Y. Toy. No. 59,538; Nov. 1.
- Beiser, Charles W., assignor to American Soldier Company, Brooklyn, N. Y. Toy small-arm. No. 58,057; June 7; v. 287; p. 150.
- Beiswanger, John, assignor to Gill Brothers Company, Steubenville, Ohio. Kamekin. No. 57,181; Mar. 1; v. 284; p. 143.
- Beiswanger, John, assignor to Gill Brothers Company, Steubenville, Ohio. Square casserole. No. 57,182; Mar. 1; v. 284; p. 143.
- Beiswanger, John, assignor to Gill Brothers Company, Steubenville, Ohio. Oval casserole. No. 57,183; Mar. 1; v. 284; p. 143.
- Beiswanger, John, assignor to Gill Brothers Company, Steubenville, Ohio. Cake-plate. (Reissue.) No. 15,054; Mar. 8; v. 284; p. 322.
- Beiswanger, John, assignor to Gill Brothers Company, Steubenville, Ohio. Utility-tray. (Reissue.) No. 15,055; Mar. 8; v. 284; p. 322.
- Beiswanger, John, assignor to Gill Brothers Company, Steubenville, Ohio. Bean-pot and cover. (Reissue.) No. 15,056; Mar. 8; v. 284; p. 322.
- Belden, Edward H., Toledo, Ohio. Automobile-radiator casing. No. 58,422; July 19; v. 288; p. 565.
- Belden, Russell D., Marion, Ohio. Tire-casing. Nos. 57,490-1; Apr. 12; v. 285; pp. 336-7.
- Belden, Russell D., assignor to Madison Tire & Rubber Company, Inc., Buffalo, N. Y. Tire-casing. No. 59,174; Oct. 4.
- Bell, Grace A., Los Angeles, Calif. Robe. No. 57,198; Mar. 8; v. 284; p. 324.
- Bellows, Warren S., Worcester, Mass. Tool. No. 59,325; Oct. 11.
- Belt, William M., assignor to Illinois Specialty Manufacturing Company, Bloomington, Ill. Heater. No. 57,101; Feb. 22; v. 283; p. 709.
- Benbow, John, and E. Mason, assignors of one-third to W. R. Stanfield, Union, Iowa. Drain-cock-opening tool. No. 59,326; Oct. 11.
- Benedetti, Vincenzo, Palisade, N. J. Shoe. No. 60,008; Dec. 20.
- Benham, Milton C., Elkhart, Ind. Traffic-guard. No. 59,809; Nov. 29.
- Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
- Benjamin, Julian F., New Orleans, La. Child's vehicle or similar article. No. 57,304; Mar. 15; v. 284; p. 540.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Inverted angle-socket. No. 57,102; Feb. 22; v. 283; p. 709.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Plug-socket. No. 57,103; Feb. 22; v. 283; p. 709.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Current-tap. No. 57,104; Feb. 22; v. 283; p. 710.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Husk. No. 57,105; Feb. 22; v. 283; p. 710.
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Reflector. No. 59,056; Sept. 20; v. 290; p. 578.
- Bennett, Oliver E., New York, N. Y. Combined bottle-opener and door-lock. No. 59,403; Oct. 18.
- Benson, Flora, Angleton, Tex. Paper doll. No. 58,868; Sept. 6; v. 290; p. 142.
- Benson, Flora, Angleton, Tex. Paper doll. Nos. 59,175-6; Oct. 4.
- Benson, Flora, Angleton, Tex. Paper doll. No. 59,810; Nov. 29.
- Benson, Lester A. (See Woods, W. E., and Benson.)
- Benson, William, San Francisco, Calif. Outer shirt. Nos. 56,851-2; Jan. 4; v. 282; p. 158.
- Benton, Donald L., Adrian, Mich., assignor to American Chain Company, Inc. Automobile-buffer. No. 59,327; Oct. 11.
- Benton, Ellery D. (See McAfee, J. B., Benton, and Davis.)
- Berard, Eddie L., North Bennington, Vt. Auto-coaster. No. 58,539; Aug. 2; v. 289; p. 126.
- Berenzweig, Jacob, Los Angeles, Calif. Garden-apron. Nos. 57,199-200; Mar. 8; v. 284; p. 324.
- Berenzweig, Jacob, Los Angeles, Calif. Garden-apron. No. 57,305; Mar. 15; v. 284; p. 540.
- Berge, Joseph, assignor to Champion Ignition Company, Flint, Mich. Speedometer face-plate. No. 59,328; Oct. 11.
- Bergman, Paul A., Portland, Oreg. Phonograph-cabinet. No. 57,882; May 17; v. 286; p. 579.
- Bergstrom, Cuthbert C., Denver, Colo. Toe-plate for the running-boards of automobiles. No. 59,404; Oct. 18.
- Bergstrom, George E., Chicago, Ill. Clothes-chest. Nos. 59,057-9; Sept. 20; v. 290; pp. 578-9.
- Bergvelt, Karl, Grand Rapids, Mich. Phonograph-cabinet. No. 56,853; Jan. 4; v. 282; p. 159.
- Berkowitz, Max., Richmond Hill, N. Y. Vanity-case. No. 58,869; Sept. 6; v. 290; p. 142.
- Bernard, Cecilia, assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 59,700; Nov. 22.



- Bernecker, George E., Milwaukee, Wis. Light attachment for sound-reproducing machines. No. 57,574; Apr. 26; v. 285; p. 718.
- Bernstein, Isidor, Brooklyn, N. Y. Finger-ring. No. 59,453; Oct. 25.
- Bernstein, Morton, New York, N. Y. Handle for spoons, forks, or similar articles. No. 59,405; Oct. 18.
- Berry, Louis P., Jr., Memphis, Tenn. Sewage apparatus. No. 57,575; Apr. 26; v. 285; p. 718.
- Beshara, John G., Lawrence, Mass. Power hair-cutter. No. 58,658; Aug. 9; v. 289; p. 367.
- Best, Harry A. (See Henkel, Adolph A., assignor.)
- Bettmann, Jesse W., assignor to Atlantic Knitting Mills Inc., New York, N. Y. Muffler. No. 59,454; Oct. 25.
- Bevan, Dorothy L., San Francisco, Calif. Lamp-shade. No. 58,013; May 31; v. 286; p. 1011.
- Beyrand, André, Limoges, France, assignor to H. C. Kupper, New York, N. Y. Plate or similar article. Nos. 58,211-13; June 28; v. 287; pp. 727-8.
- Bianchini, Charles L. G., Paris, France. Fabric used in upholstering and decorating. Nos. 58,870-3; Sept. 6; v. 290; p. 142.
- Biehl, Bernard Sr., Newark, N. J., assignor to J. L. Sommer Manufacturing Co. Milk-bottle opener. No. 60,009; Dec. 20.
- Bielecka, Anna, Smithfield, Pa. Curtain-hanger. No. 57,201; Mar. 8; v. 284; p. 324.
- Bierbach, Carl F., Rochester, N. Y. Handle for a pocket-knife. Nos. 58,457-8; July 26; v. 288; p. 768.
- Biffar, Fred, Jr., Chicago, Ill. Police-billy. No. 58,214; June 28; v. 287; p. 728.
- Bigalow, James H., assignor to The A. C. Williams Company, Ravenna, Ohio. Toy bank. No. 59,701; Nov. 22.
- Bigelow, Harry M., Milwaukee, Wis. Mixer. No. 59,702; Nov. 22.
- Biggs, Joseph E., Richmond, Va. Talking-machine cabinet. No. 57,306; Mar. 15; v. 284; p. 541.
- Bihl, Alphonse, Brooklyn, N. Y. Plate or similar article. No. 59,406; Oct. 18.
- Billmeyer, Fayette A., Pittsburgh, Pa. Toy. No. 58,699; Aug. 30; v. 289; p. 952.
- Binch, Herbert, Glens Falls, assignor to Thomas Wilson & Co., New York, N. Y. Lace. Nos. 58,988-9; Sept. 13; v. 290; p. 379.
- Binder, Fredrick J., Detroit, Mich. Ring. No. 56,854; Jan. 4; v. 282; p. 159.
- Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Casing for transformers. No. 57,106; Feb. 22; v. 283; p. 710.
- Binkovitz, M., & Son. (See Sonntag, Eugene, Jr., assignor.)
- Birnbaum, Charles. (See Eliasoff, A. L., and Birnbaum.)
- Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Combined fuse and switch block. No. 56,907; Jan. 18; v. 282; p. 529.
- Bissonette, Frank, Winoski, Vt. Shrine. No. 59,575; Nov. 8.
- Bitterman Simon *et al.* (See Johnson, Charles E., assignor.)
- Biva, Lucien, White Plains, assignor to Titus Blatter & Company, New York, N. Y. Textile fabric or similar article. Nos. 58,700-5; Aug. 30; v. 289; pp. 953-4.
- Biva, Lucien, White Plains, assignor to Titus Blatter & Company, New York, N. Y. Textile fabric or similar article. Nos. 59,177-9; Oct. 4.
- Blabon, George W., Company, The. (See Cartwright, Frank, assignor.)
- Black, Joseph J., assignor to The Master Tire and Rubber Company, Dayton, Ohio. Tire. No. 57,307; Mar. 15; v. 284; p. 541.
- Black, Mathew, Brooklyn, assignor to H. Brudney, New York, N. Y. Mixing and stirring device. No. 57,883; May 17; v. 286; p. 579.
- Black, Otto E., assignor to The Lucas-Miner Tool and Production Company, Dayton, Ohio. Radiator-cap. No. 58,874; Sept. 6; v. 290; p. 143.
- Black, Samuel D., and A. G. Decker, Towson, assignors, by mesne assignments, to Second National Bank of Baltimore, trustee, Baltimore, Md. Portable electric tool. No. 57,576; Apr. 26; v. 285; p. 718.
- Black, Samuel D., and A. G. Decker, Towson, assignors, by mesne assignments, to Second National Bank of Baltimore, trustee, Baltimore, Md. Portable electric valve-grinder. No. 57,577; Apr. 26; v. 285; p. 718.
- Black, Samuel D., and A. G. Decker, assignors, by mesne assignments, to Second National Bank of Baltimore, trustee, Baltimore, Md. Housing for electric air compressors and motors. No. 57,812; May 10; v. 286; p. 369.
- Black, Samuel D., and A. G. Decker, Towson, assignor, by mesne assignments, to Second National Bank of Baltimore, trustee, Baltimore, Md. Combination motor and air-pump casing. No. 58,177; June 21; v. 287; p. 547.
- Black, Walter A., Perry, Iowa. Tire-core. No. 57,813; May 10; v. 286; p. 369.
- Blackstone, Alex., Newark, N. J. Medicinal tablet. No. 59,950; Dec. 13.
- Blackwell, William T., Westfield, N. J., assignor to Westinghouse Lamp Company. Shade for lighting-fixtures. No. 59,576; Nov. 8.
- Black & Company, Inc. (See Bernard, Cecilia, assignor.)
- Blank & Company, Inc. (See Davis, Elizabeth A., assignor.)
- Blank & Company. (See Kümalehto, Thyra O., assignor.)
- Blank & Company. (See Meyer, Felix, assignor.)
- Blatter, Titus, & Company. (See Coste, Emile, assignor.)
- Blekre, Edgar O., Sioux Falls, Iowa. Elastic-tire tread. Nos. 56,908-10; Jan. 18; v. 282; p. 529.
- Blekre, Edgar O., Minneapolis, Minn. Elastic vehicle-tire. Nos. 57,764-7; May 3; v. 286; p. 152.
- Blekre, Edgar O., Minneapolis, Minn. Vehicle-tire. No. 58,058; June 7; v. 287; p. 150.
- Blickman, Manuel, New York, N. Y. Sterilizer. No. 58,540; Aug. 2; v. 289; p. 126.
- Blickman, Manuel, New York, assignor to S. Blickman, Brooklyn, N. Y. Pedestal. Nos. 58,059-60; June 7; v. 287; pp. 150-1.
- Blickman, Sophia. (See Blickman, Manuel, assignor.)
- Bloch, Joseph, New York, N. Y. Combined lamp and phonograph. No. 56,855; Jan. 4; v. 282; p. 159.
- Block, Hugo C., Watertown, Wis. Revolving-disk display toy. No. 59,060; Sept. 20; v. 290; p. 579.
- Blood, Bryant H., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Gage-frame. Nos. 59,703-6; Nov. 22.
- Blue Ribbon Silver Manufacturers. (See Sherman, Max, assignor.)
- Blue Jacket Tailoring Company, The. (See Lion, Edwin E., assignor.)
- Bodenmiller, Joseph P., St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky. Seesaw. No. 58,130; June 14; v. 287; p. 353.
- Bodmer, Christian, assignor to The Stanley Works, New Britain, Conn. Saw-set. No. 57,578; Apr. 26; v. 285; p. 718.
- Boeger, George H., and J. L. Campbell, Minneapolis, Minn. Memorial button. No. 58,706; Aug. 30; v. 289; p. 954.
- Boething, Majory A., Los Angeles, Calif. Handbag. No. 59,577; Nov. 8.
- Boisvert, William R., St. David, Quebec, Canada. Portable lamp. Nos. 57,884-5; May 17; v. 286; p. 579.
- Bollinger, Frederick A., Akron, assignor to The Oldfield Tire Company, Cleveland, Ohio. Pneumatic tire. No. 58,541; Aug. 2; v. 289; p. 126.
- Bond, Arthur J. (See Bradshaw, W. T., and Bond.)
- Bonney Vise & Tool Works, Inc. (See Durham, Fred S., assignor.)
- Borgfeldt, George, & Co. (See Vidulich, Matthew G., assignor.)
- Bosco, John, New York, N. Y. Combination-tool. No. 57,030; Feb. 1; v. 283; p. 129.
- Boston Burial Case Co. (See Hollins, Frederick E., assignor.)
- Bostroem, August. (See Schwartz, S. R., and Bostroem.)
- Bourgeois, Rudolph J., Chicago, Ill., and G. P. Ittig, Bridgeport, Conn., assignors to W. D. Smith Silver Company. Perculator, urn, or similar article. No. 57,814; May 10; v. 286; p. 369.
- Boutelle, William H. (See Schumacher, E. L., and Boutelle.)
- Bowden, Martin L., Brooklyn, N. Y. Ring or like article. No. 56,856; Jan. 4; v. 282; p. 159.
- Bowen, Michael B., assignor to Faries Manufacturing Co., Decatur, Ill. Arm for a portable lighting-fixture. Nos. 58,061-4; June 7; v. 287; p. 151.
- Bowers & Bartlett. (See Bartlett, Harry O., assignor.)
- Bowman, Charles H., Washington, D. C. Vehicle-body. No. 58,542; Aug. 2; v. 289; p. 126.
- Bown, Charles B., Dayton, Ohio. Grease-gun. No. 57,107; Feb. 22; v. 283; p. 710.
- Boyer, Harrison D., Philadelphia, Pa. Seat-body for children's vehicles. No. 58,065; June 7; v. 287; p. 151.
- Boyer, Harry, *et al.* (See Williams, Ardie, assignor.)
- Bozart Lighting Co. (See Kleinman, Rudolph, assignor.)
- Bozzelle, William V., and J. W. Hummel, Philadelphia, Pa. Waffle-iron. No. 57,961; May 24; v. 286; p. 798.
- Bracht, Henry C., Chicago, Ill. Motor casing. No. 59,455; Oct. 25.
- Bradfield, Fred E., Davenport, Iowa. Fender. No. 57,579; Apr. 26; v. 285; p. 718.
- Bradley Knitting Company. (See Byrnes, Daniel F., assignor.)
- Bradley Knitting Company. (See Tyrrell, Wallace B., assignor.)
- Bradshaw, William T., and A. J. Bond, Oakland, Calif. Bottle-holder. No. 58,014; May 31; v. 286; p. 1011.
- Brady, James H., assignor to Visible Measure Gasoline Dispenser Company of America, Louisville, Ky. Gasoline-dispenser casing. No. 58,131; June 14; v. 287; p. 353.
- Braender, Walter P., Montclair, N. J. Automobile-tire. No. 59,811; Nov. 29.
- Branch, Charles S., Hammond, Ind. Cigarette-forming device. No. 57,581; Apr. 26; v. 285; p. 719.
- Brandt, Carl, assignor to Winslow Bros. & Smith Co., Boston, Mass. Leather. No. 59,884; Dec. 6.
- Brant, David O., Owensmouth, Calif. Buttermilk-crock. No. 57,580; Apr. 26; v. 285; p. 719.
- Brass Goods Mfg. Co. (See Hyatt, Frank S., assignor.)
- Brauer, Adolph K., deceased, S. D. Brauer, executrix, assignor to S. D. Brauer, Los Angeles, Calif. Sprinkler-body. No. 57,582; Apr. 26; v. 285; p. 719.
- Brauer, Serena D., executrix. (See Brauer, Adolph K.)
- Brauning, Jake S. (See Davis, Donald V., assignor.)



*Alphabetical list of patentees of designs—Continued.*

- Breitenstein, Arthur L., Akron, assignor to Rubber Products Company, Barberton, Ohio. Elastic vehicle-tire. No. 57,072; Feb. 8; v. 283; p. 322.
- Breitenstein, Arthur L., Akron, assignor to Hannibal Rubber Company, Hannibal, Ohio. Tire-tread. Nos. 57,886-7; May 17; v. 286; pp. 579-80.
- Breitenstein, Arthur L., Akron, assignor to The Giant Tire & Rubber Company, Findlay, Ohio. Tire-tread. No. 59,180; Oct. 4.
- Breitenstein, Myron J., and M. G. Martin, assignors to Northern Specialty Company, Inc., Stevens Point, Wis. Toy car. No. 57,031; Feb. 1; v. 283; p. 129.
- Brendel, Samuel C., McKeesport, Pa. Direction-indicator for motor-vehicles. No. 59,812; Nov. 29.
- Brent, James A., Grandview, Wash. Shoe. No. 57,108; Feb. 22; v. 283; p. 710.
- Breslavsky, Hyman, New York, N. Y. Setting for precious stones. No. 58,305; July 12; v. 288; p. 359.
- Brewster, Frank H., assignor to Madison Tire & Rubber Co., Inc., Buffalo, N. Y. Tire-casing. No. 57,461; Apr. 5; v. 285; p. 154.
- Brewster, Louise H., Lexington, Mass. Woven fabric or similar article. No. 57,492; Apr. 12; v. 285; p. 337.
- Briesemeister, Rudolf P., New York, N. Y. Electrical adapter. No. 58,066; June 7; v. 287; p. 151.
- Briggs, Elinor C., Pawhuska, Okla. Pennant. No. 57,583; Apr. 26; v. 285; p. 719.
- Brill, Abraham K., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Tire. No. 58,067; June 7; v. 287; p. 152.
- Brintzenhofs, Otto, Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc. Vacuum-cleaner. No. 57,109; Feb. 22; v. 283; p. 710.
- Briscoe, Benjamin, and Stahl Engineering Co. (See Stahl, Rodolphe, assignor.)
- Broberg, Victor T., Luck, Wis. Sled. No. 58,015; May 31; v. 286; p. 1011.
- Bromley, Henry S., assignor to North American Lace Company, Philadelphia, Pa. Lace. No. 58,710; Aug. 30; v. 289; p. 955.
- Brook, Samuel, New Bedford, Mass. Knife-sharpener. No. 59,951; Dec. 13.
- Bross, Ernest E., Detroit, Mich. Finger-ring. No. 58,875; 58,874; v. 290; p. 143.
- Brown & Bigelow. (See Harris, Blaine H., assignor.)
- Brown & Bigelow. (See Kristofek, F. J., and Fischer, assignors.)
- Brown & Bigelow. (See Kristofek, Frank J., assignor.)
- Brown, Charles H., New York, N. Y. Shoe. No. 57,110; Feb. 22; v. 283; p. 711.
- Brown, Henry B., assignor to Taylor Instrument Companies, Rochester, N. Y. Pyrometer. No. 57,493; Apr. 12; v. 285; p. 337.
- Brown, John C., Minneapolis, Minn. Pastry-tool. No. 57,815; May 10; v. 286; p. 369.
- Brown, John R., Cleveland, assignor to The Ohio Brass Company, Mansfield, Ohio. Rail-bond terminal. No. 58,016; May 31; v. 286; p. 1011.
- Brown, Louis O., Toledo, Ohio. Oil-can. No. 59,407; Oct. 18.
- Brown, William, St. Louis, Mo. Fan. No. 57,816; May 10; v. 286; p. 369.
- Browning, Reuben B. (See McUpson, Edgar C., assignor.)
- Brubaker, William A., Akron, Ohio, assignor to Nu-Cord Rubber Company, Greensburg, Pa. Automobile-tire. No. 58,017; May 31; v. 286; p. 1012.
- Brubaker, William A., Akron, Ohio, assignor to H. McCrery, Indiana, Pa. Non-skid tire. No. 59,619; Nov. 15.
- Bruce, George H., New York, N. Y. Building-tile. No. 57,111; Feb. 22; v. 283; p. 711.
- Bruder, Edmund, Chicago, Ill. Game-dial or similar article. Nos. 58,707-8; Aug. 30; v. 289; p. 954.
- Bruder, Edmund, Chicago, Ill. Game-dial or similar article. Nos. 59,707-8; Nov. 22.
- Bruder, Edmund, Chicago, Ill. Disk or element for a game apparatus. No. 59,709; Nov. 22.
- Brudney, Harry. (See Black, Mathew, assignor.)
- Bruegebers, Otto, West Hoboken, N. J. Lace. Nos. 58,990-1; Sept. 13; v. 290; p. 379.
- Bruegger, Robert D., Williston, N. D. Sign. No. 57,424; Mar. 29; v. 284; p. 911.
- Bruen, Henry L., East Orange, N. J. Nozzle for syringes. No. 59,952; Dec. 13.
- Bruner, Simon, New York, N. Y. Ribbon-clasp. No. 59,620; Nov. 15.
- Bruns, Alfred E., Brooklyn, N. Y. Powder-container. No. 58,709; Aug. 30; v. 289; p. 955.
- Brunswick-Balke-Collender Company, The. (See Brill, Abraham K., assignor.)
- Bryant Electric Company, The. (See Anderson, Carl E., assignor.)
- Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)
- Bryant Electric Company. (See Nourse, Walter E., assignor.)
- Bub Body Corporation. (See Zwebell, Albert R., assignor.)
- Buchenau, Lloyd W., Stockton, Calif. Gum and mint case. No. 59,181; Oct. 4.
- Bucher, Alfred S., Decatur, Ga. Toy. Nos. 58,132-4; June 14; v. 287; p. 353.
- Buell, Glynn G. (See Glidden, A. A., Buell, and Fritch.)
- Bugbee, Lucian W., assignor to Franklin Optical Company, Indianapolis, Ind. Reading-glass. No. 60,010; Dec. 20.
- Bujarsky, Charles G., Anderson, Ind. Novelty mitten. No. 59,182; Oct. 4.
- Bulley, George W., St. Joseph, Mich. Rubber-beel. No. 57,032; Feb. 1; v. 283; p. 129.
- Bullinger, Willis H. (See Allen, E. G., and Hagar, assignors.)
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Brocade fabric. Nos. 57,202-3; Mar. 8; v. 284; p. 324.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 57,204; Mar. 8; v. 284; p. 325.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 57,494; Apr. 12; v. 285; p. 337.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Brocade fabric. No. 58,459; July 26; v. 288; p. 768.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 58,711; Aug. 30; v. 289; p. 955.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Brocade fabric. No. 58,876; Sept. 6; v. 290; p. 143.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 58,877-8; Sept. 6; v. 290; p. 143.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 58,992; Sept. 13; v. 290; p. 379.
- Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 59,183-5; Oct. 4.
- Buonincontri, John. (See Abate, S., and Buonincontri.)
- Burbank, Clara M., Los Angeles, Calif. Waffle-iron. No. 59,710; Nov. 22.
- Bureau of the Holy Name Society. (See Smith, Ignatius, assignor.)
- Burke, Katherine M., New York, N. Y. Statuette, doll, or similar article. No. 57,309; Mar. 15; v. 284; p. 541.
- Burke, Mattie M., Los Angeles, Calif. Apron. No. 58,993; Sept. 13; v. 290; p. 379.
- Burkhardt, Curt R. (See Scharwath, John A., assignor.)
- Burns, Benjamin F., Omaha, Nebr. Combined advertising device and revolving stand. No. 60,083; Dec. 27.
- Burns, James P., Los Angeles, Calif. Sandal. No. 58,994; Sept. 13; v. 290; p. 379.
- Burrill, Robert T., Winchester, N. H. Medal. No. 57,205; Mar. 8; v. 284; p. 325.
- Burson Knitting Company. (See Swanson, Sam, assignor.)
- Burton, Adolphe M., Baltimore, Md. Toy dog. No. 59,578; Nov. 8.
- Busch, Joseph A., assignor of sixty per cent. to A. A. Pool, Toledo, Ohio. Head of a clothes-stick. No. 57,112; Feb. 22; v. 283; p. 711.
- Bush & Lane Piano Company. (See Lane, Walter, assignor.)
- Busick, Paul M., Memphis, Tenn. Booth. No. 58,423; July 19; v. 288; p. 566.
- Bussert, Frank R., Chicago, Ill. Advertising-clock. No. 57,310; Mar. 15; v. 284; p. 541.
- Butler, Robert, Barberton, Ohio. Vehicle-tire. Nos. 57,888-9; May 17; v. 286; p. 580.
- Byers, Firm B., New York, N. Y. Collar-clasp. Nos. 59,408-9; Oct. 18.
- Byrnes, Daniel F., assignor to Bradley Knitting Company, Delavan, Wis. Knitted cap. No. 58,879; Sept. 6; v. 290; p. 144.
- Cadogan, John H., Chicago, Ill. Hot-water bottle. No. 58,857; Jan. 4; v. 282; p. 159.
- Cahill, James S., Richmond Va. Toothbrush. No. 56,858; Jan. 4; v. 282; p. 160.
- Cahn, Tillman, Elkins Park, Pa., assignor to Pioneer Suspender Company, Garter. No. 60,084; Dec. 27.
- Caillet, Clyde C. (See Caillet, Lucius L. and C. C.)
- Caillet, Lucius L., Riverside, Calif., and C. C. Caillet, Johnstown, Colo. Rivet-punch. No. 59,410; Oct. 18.
- Callahan, Lillian, Brooklyn, assignor to H. R. Mallinson & Co., Inc., New York, N. Y. Cut-out display device. No. 57,425; Mar. 29; v. 284; p. 911.
- Callahan, William J., Worcester, Mass. Combined lamp support and casing. No. 58,543; Aug. 2; v. 289; p. 126.
- Camden City Cut Glass Co. (See Priestley, Albert F., assignor.)
- Cameron, William J., Chicago, Ill. Lamp. No. 57,206; Mar. 8; v. 284; p. 325.
- Campbell, Arthur A., Santa Monica, Calif. Toothbrush. No. 57,584; Apr. 26; v. 285; p. 719.
- Campbell, Byrde, Evansville, Ind. Coal-cabinet. No. 58,995; Sept. 13; v. 290; p. 380.
- Campbell, Charles A., New York, N. Y. Lamp-globe. No. 58,880; Sept. 6; v. 290; p. 144.
- Campbell, Charles A., New York, N. Y. Lamp-globe. No. 59,813; Nov. 29.
- Campbell, Edward L., assignor to The J. R. Watkins Company, Winona, Minn. Vehicle tire or casing. No. 58,018; May 31; v. 286; p. 1012.
- Campbell, Edward L., assignor to The J. R. Watkins Company, Winona, Minn. Vehicle tire or casing. No. 58,178; June 21; v. 287; p. 547.



- Campbell, George. (See Papale, J. I., and Campbell.)  
 Campbell, John L. (See Boeger, G. H., and Campbell.)  
 Campbell, Lorn, Sr., Minneapolis, Minn. Wrench. No. 57,113; Feb. 22; v. 283; p. 711.  
 Cannavaro, Theodore, New York, N. Y. Foot-propelled car for children. No. 58,068; June 7; v. 287; p. 152.  
 Card, Edson B., White Plains, N. Y. Doll. No. 59,814; Nov. 29.  
 Carder, Frederic, assignor to Corning Glass Works, Corning, N. Y. Flower-holder. No. 59,186; Oct. 4.  
 Carleton, Lucia J., Dorchester, Mass. Lady's sport-costume. No. 58,544; Aug. 2; v. 289; p. 126.  
 Carlson, John W., Chicago, Ill., assignor to Chicago Novelty Mfg. Co. Toy. No. 59,329; Oct. 11.  
 Carnal, William D., Akron, assignor to The Tuscara Rubber Company, New Philadelphia, Ohio. Tire. No. 57,184; Mar. 1; v. 284; p. 143.  
 Carnal, William, Akron, assignor to The Knox Tire and Rubber Company, Mount Vernon, Ohio. Vehicle-tire. Nos. 57,207-9; Mar. 8; v. 284; p. 325.  
 Carnal, William D., Akron, assignor to The Tuscara Rubber Company, New Philadelphia, Ohio. Tire. Nos. 57,210-11; Mar. 8; v. 284; p. 326.  
 Carr, James H. A., McKees Rocks, Pa. Combined microscope and mirror. No. 59,579; Nov. 8.  
 Carr-Lowrey Glass Company. (See Newell, Louis B., assignor.)  
 Carter, Robert L., Omaha, Nebr. Combination water and feed trough. No. 57,212; Mar. 8; v. 284; p. 326.  
 Carter, Thomas J., assignor to Carter's Bestever Bait Company, Indianapolis, Ind. Artificial casting-bait. No. 57,311; Mar. 15; v. 284; p. 541.  
 Carter, Walter C., Pittsburgh, Pa. Game-board. No. 58,069; June 7; v. 287; p. 152.  
 Carter's Bestever Bait Company. (See Carter, Thomas J., assignor.)  
 Cartier, Inc. (See Hartnett, Joseph P., assignor.)  
 Cartledge, Rowland E., Akron, Ohio, assignor to Lomer Armored Tire Company, Newcastle, Ind. Tire-tread. Nos. 58,996-7; Sept. 13; v. 290; p. 380.  
 Cartwright, Frank, Trenton, N. J., assignor to The George W. Blabon Company, Philadelphia, Pa. Floor-cloth. Nos. 57,495-503; Apr. 12; v. 285; pp. 337-9.  
 Carver, Fred S., East Orange, N. J. Automobile disk wheel. No. 58,070; June 7; v. 287; p. 152.  
 Case, Willard T., New Brunswick, N. J., assignor to Deltox Grass Rug Company, Oshkosh, Wis. Grass mat. Nos. 57,504-10; Apr. 12; v. 285; pp. 339-40.  
 Casey, James D. (See Evenden, A. L., J. D. and J. A. Casey.)  
 Casey, John P., Jeannette, Pa. Bottle-stopper. No. 59,187; Oct. 4.  
 Casey, John T., assignor to Keystone Lantern Company, Philadelphia, Pa. Child's vehicle. No. 58,659; Aug. 9; v. 289; p. 367.  
 Casey, Joseph. (See Evenden, A. L., and J. A. Casey.)  
 Caspari, Paul, Chicago, Ill. Button. No. 59,539; Nov. 1.  
 Cavanaugh, James P., and S. C. Porter, assignors of one-third to I. Z. Dunwoody, Denver, Colo. Radiator-cap. No. 59,330; Oct. 11.  
 Caviness, Edwin A., Battle Creek, Mich. Phonograph-cabinet. Nos. 59,331-2; Oct. 11.  
 Célier, Jean. (See Romey-Cuilliez, A., and Célier.)  
 Central Council, Order of the Builders for Boys. (See Milard, Arthur M., assignor.)  
 Central Flatiron Mfg. Co. (See Van Kuren, William J., assignor.)  
 Central Glass Works. (See Balda, Joseph O., assignor.)  
 Central Tool Company, The. (See Jaques, Fernando O., Jr., assignor.)  
 Central Trust Company of Illinois. (See Altorfer, Alpheus W., assignor.)  
 Century Manufacturing Company, The. (See Lebzelter, William F., assignor.)  
 Chadwick, Almon, San Antonio, Tex. Wrench. No. 57,768; May 3; v. 286; p. 152.  
 Chambers, Fred E., assignor to Champion Brass Works, Coldwater, Mich. Loop lighting-fixture. No. 57,585; Apr. 26; v. 285; p. 719.  
 Chambers, George E. (See Wilson, Miles, assignor.)  
 Chambers, Jess L., Kansas City, Mo., assignor to Adelson Chambers Jewelry Company. Finger-ring. No. 59,188; Oct. 4.  
 Champion Brass Works. (See Chambers, Fred E., assignor.)  
 Champion Brass Works. (See McFadden, Glenn E., assignor.)  
 Champion Brass Works. (See Ratto, Richard C., assignor.)  
 Champion Ignition Company. (See Berge, Joseph, assignor.)  
 Chance, Roy L. (See Harris, R. E., and Chance.)  
 Chapman, Earl E., Los Angeles, Calif., assignor to Miller Chapman Company. Spare-tire lock for automobiles. No. 59,062; Sept. 20; v. 290; p. 579.  
 Chapman, John G. (See Townsend, George F., assignor.)  
 Charles Abresch Co. (See Willer, Eric F., assignor.)  
 Charles, Carl, Rosedale, Kans. Collar. No. 59,711; Nov. 22.  
 Chase Companies, The. (See Recker, Adolph C., assignor.)  
 Chesnut, James R. (See Lake, J. W., and Chesnut.)  
 Chicago Novelty Mfg. Co. (See Carlson, John W., assignor.)  
 Chicago Papier-Mache Co. (See Doerre, Otto J., assignor.)  
 Chinsky, Harry H., and E. Honstetter, Brooklyn, N. Y. Spark-plug. No. 58,215; June 28; v. 287; p. 728.  
 Christen, Victor H., Toledo, Ohio. Glass-wiper. No. 59,189; Oct. 4.  
 Christopher, Arthur B., St. Louis, Mo. Indicator. No. 60,085; Dec. 27.  
 Christopher, Thomas, et al. (See Light, Harry B., assignor.)  
 Christy, James, Cleveland, Ohio. Tire. No. 59,815; Nov. 29.  
 Christy, James, Cleveland, assignor to The Portage Rubber Co., Barborton, Ohio. Tire. No. 57,185; Mar. 1; v. 284; p. 143.  
 Chunn, Charles J., et al. (See Parker, Ralph D., assignor.)  
 Church, Clifford C., Needham, Mass. Wheeled vehicle. No. 57,586; Apr. 26; v. 285; p. 720.  
 Church, Howard A., Elkhart, Ind. Paneled stock-pot. No. 58,546; Aug. 2; v. 289; p. 127.  
 Church, Howard A., Elkhart, Ind. Aluminum teakettle. Nos. 59,190-1; Oct. 4.  
 Church, Howard A., Elkhart, Ind. Aluminum double boiler. No. 59,192; Oct. 4.  
 Church, Howard A., Elkhart, Ind. Aluminum roaster. No. 59,953; Dec. 13.  
 Church, Howard A., Elkhart, Ind. Aluminum coffee-percolator. No. 60,011; Dec. 20.  
 Cilley, Vri L., Grand Rapids, Mich. Tail-light for vehicles. No. 58,712; Aug. 30; v. 289; p. 955.  
 Cimino, Nicola, Providence, R. I. Curtain-pole bracket. No. 57,817; May 10; v. 286; p. 370.  
 Clark, David H., Orangeburg, N. Y. Electric immersion-heater. No. 59,712; Nov. 22.  
 Clark, David H., Orangeburg, N. Y. Stand for a dispensing apparatus. No. 59,713; Nov. 22.  
 Clark, Edward C. (See Clark, William C. and E. C., and Wehrheim.)  
 Clark, Edwin R., and L. R. Neuer, Joliet, Ill. Doll's costume. No. 59,193; Oct. 4.  
 Clark, George S., Kalamazoo, and P. B. Snyder, East Lansing, Mich.; said Clark assignor to said Snyder. Thermometer. No. 59,333; Oct. 11.  
 Clark, Thomas H., Des Moines, Iowa. Dough-rounder. No. 59,621; Nov. 15.  
 Clark, William C. and E. C., Wellston, and L. Wehrheim, St. Louis, Mo. Plant-protector. No. 59,885; Dec. 6.  
 Clarke, Edward H., Peoria, Ill. Whistle. No. 59,816; Nov. 29.  
 Clarke, Walter H., Toronto, Ontario, Canada. Rubber heel. No. 59,714; Nov. 22.  
 Clayton, Harry T., Philadelphia, Pa. Game-board. No. 59,715; Nov. 22.  
 Clements, Albert F., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. Nos. 58,713-14; Aug. 30; v. 289; p. 955.  
 Cleveland Automobile Company. (See Wooler, Ernest A., assignor.)  
 Cleveland Gas Burner & Appliance Co. (See Kerr, H. E., and Barber, assignors.)  
 Cleveland Rubber Corporation Company, The. (See Harris, Archer H., assignor.)  
 Clifford, Harold R., Rockford, Ill. Radiator-cap. No. 58,286; July 5; v. 288; p. 163.  
 Clough, Lee E., Akron, assignor to The Mason Tire & Rubber Company, Kent, Ohio. Solid rubber tire. No. 58,547; Aug. 2; v. 289; p. 127.  
 Clouser, Clarence J., Columbus, Ohio. Toy animal. No. 58,135; June 14; v. 287; p. 354.  
 Clouser, Clarence J., Columbus, Ohio. Toy rocker. No. 59,334; Oct. 11.  
 Clouser, Harry E., and E. R. Thornton, Stockton, Calif. Building-block. No. 58,660; Aug. 9; v. 289; p. 367.  
 Clulee, Stephen J., Attleboro, Mass., assignor to Bay State Optical Company. Spectacles. No. 59,716; Nov. 22.  
 Clulee, Stephen J., Attleboro, Mass., assignor to Bay State Optical Company. Spectacles. Nos. 59,817-18; Nov. 29.  
 Clyne, Robert G., and K. Rayburn, St. Louis, Mo. Washing-machine casing. No. 58,548; Aug. 2; v. 289; p. 127.  
 Coates, Bertram M. (See Stover, H. W., and Coates.)  
 Coates, Henry B., Veedsburg, Ind. Solid rubber tire for motor-trucks and the like. No. 59,717; Nov. 22.  
 Cobb, William M., assignor to Zion Institutions and Industries, Zion, Ill. Child's velocipede. Nos. 59,335-6; Oct. 11.  
 Cohn, Albert, and L. H. Debs, Chicago, Ill. Game-board. No. 58,661; Aug. 9; v. 289; p. 368.  
 Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Back-plate of a wall-bracket for lighting-fixtures. No. 58,882; Sept. 6; v. 290; p. 144.  
 Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Bracket-arm for lighting-fixtures. No. 58,883; Sept. 6; v. 290; p. 145.  
 Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Lighting-fixture unit. No. 58,884; Sept. 6; v. 290; p. 145.  
 Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Combined wall-bracket and socket-cover for lighting-fixtures. No. 58,885; Sept. 6; v. 290; p. 145.



*Alphabetical list of patentees of designs—Continued.*

- Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Back-plate of a wall-bracket for lighting-fixtures. No. 58,886; Sept. 6; v. 290; p. 145.
- Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Lighting-fixture unit. No. 58,887; Sept. 6; v. 290; p. 146.
- Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Three-way plate for lighting-fixtures. No. 58,888; Sept. 6; v. 290; p. 146.
- Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Lighting-fixture unit. No. 58,889; Sept. 6; v. 290; p. 146.
- Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Wall-plate of a bracket for a lighting-fixture. No. 58,890; Sept. 6; v. 290; p. 146.
- Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Wall-plate for a lighting-fixture. No. 58,891; Sept. 6; v. 290; p. 147.
- Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Lighting-fixture unit. No. 58,892; Sept. 6; v. 290; p. 147.
- Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Arm of a wall-bracket for lighting-fixtures. No. 59,063; Sept. 20; v. 290; p. 580.
- Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Back plate of a wall-bracket for lighting-fixtures. No. 59,622; Nov. 15.
- Cohn, Victor H., New York, N. Y. Ring. Nos. 59,195-6; Oct. 4.
- Cole, Abel, Chicago, Ill. Tie-holder or similar article. No. 59,456; Oct. 25.
- Cole, Leslie F. (See Downey, E. M., and Hepp, assignors.)
- Coleman, George B., assignor to Coleman X-Ray Company, San Francisco, Calif. Cabinet for an X-ray unit. No. 58,216; June 28; v. 287; p. 728.
- Coleman X-Ray Company. (See Coleman, George B., assignor.)
- Colgate & Company. (See Duke, Emily, assignor.)
- Collier, Paul R., Philadelphia, Pa. Headlight. Nos. 57,890-1; May 17; v. 286; p. 580.
- Collier, Paul R., Philadelphia, Pa. Receptacle-plug. No. 58,019; May 31; v. 286; p. 1012.
- Collins, James J., Springfield, Mass. Tag. No. 59,194; Oct. 4.
- Collins, William F., assignor of one-half to J. J. Schweinfuss, Centerville, Iowa. Pneumatic tire. No. 58,180; June 21; v. 287; p. 547.
- Colonial Stamping Company. (See Schultz, Abraham J., assignor.)
- Columbia Graphophone Manufacturing Company. (See Beadle, George W., assignor.)
- Columbia Graphophone Manufacturing Company. (See Mowitz, Albert T., assignor.)
- Columbia Graphophone Manufacturing Company. (See Roberts, Theodore C., assignor.)
- Columbia School Supply Company. (See Moore, Jesse C., assignor.)
- Columbus Tire & Rubber Company, The. (See Armacost, William E., assignor.)
- Colvin, Walter M., assignor of one-fifth to R. B. Owen, Washington, D. C. Toy balloon-doll. No. 59,718; Nov. 22.
- Commercial Decalcomania Co. (See Dixon, Rachel T., assignor.)
- Conama, William, Rochester, Minn. Billiard-table rail. No. 58,715; Aug. 30; v. 289; p. 955.
- Cone Company of America. (See Lawton, Thomas F., assignor.)
- Conley, Edward R., Springville, N. Y. Phonograph-cabinet. No. 59,337; Oct. 11.
- Conn, C. G., Ltd. (See Dotson, Ora, assignor.)
- Conn, C. G., Ltd. (See Gulick, Edward J., assignor.)
- Connolly, Frank P., York, Pa. Advertising display device. No. 58,137; June 14; v. 287; p. 354.
- Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Box-cover. No. 56,968; Jan. 25; v. 282; p. 685.
- Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. No. 57,034; Feb. 1; v. 283; p. 129.
- Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. No. 57,312; Mar. 15; v. 284; p. 542.
- Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. No. 58,020; May 31; v. 286; p. 1012.
- Connor, Martha H., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. No. 59,819; Nov. 29.
- Connor, Thomas V., Denver, Colo. Pressure-cooker. No. 58,662; Aug. 9; v. 289; p. 368.
- Continental Machinery Company. (See Larsen, John M., assignor.)
- Continental Rubber Works. (See Smith, Robert J., assignor.)
- Conway, John J., Bridgeport, Conn., assignor to The Acme Shear Company. Tension-spring for scissors and shears or similar article. No. 58,460; July 26; v. 288; p. 768.
- Cook, Elizabeth M., Belvedere, Calif. Child's outer garment, such as a play-suit. No. 59,540; Nov. 1.
- Cook, Ernest C., Chicago, Ill. Phonograph-cabinet. Nos. 57,313-14; Mar. 15; v. 284; p. 542.
- Cook, Josephine M., Plainfield, N. J. Doll. No. 57,315; Mar. 15; v. 284; p. 542.
- Cooke, John B., Spokane, Wash. Cookie-cabinet. No. 56,958; Jan. 25; v. 282; p. 684.
- Cooley, Charles A., Columbus, Ohio. Cabinet. No. 57,769; May 3; v. 286; p. 153.
- Coombs, Carl B., Indianapolis, Ind. Radiator-cap. No. 58,136; June 14; v. 287; p. 354.
- Cooper, Frank J., San Francisco, Calif. Folder. No. 59,338; Oct. 11.
- Cooper, James T., London, England. Stock-retainer for boots and shoes. No. 60,012; Dec. 20.
- Copeland, Charles A. (See Hartman, Louis H., assignor.)
- Copeland, Francis C., assignor of one-half to E. C. Streich, San Francisco, Calif. Automobile-steering-column lock. No. 59,580; Nov. 8.
- Copeland, Harry, Columbus, Nebr. Cork-cabinet. No. 58,071; June 7; v. 287; p. 152.
- Corcoran-Victor Company, The. (See Macneale, Neil, assignor.)
- Cordes, John, Douglas, N. D. Shelf. No. 57,587; Apr. 26; v. 285; p. 720.
- Corey, Harry R., Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 57,033; Feb. 1; v. 283; p. 129.
- Corey, Harry R., Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 58,072; June 7; v. 287; p. 152.
- Corl, John F., Cleveland, Ohio. Hood for motor-vehicles. Nos. 57,962-3; May 24; v. 286; p. 798.
- Corning Glass Works. (See Carder, Frederic, assignor.)
- Corning Glass Works. (See Manuel, W. N., and Pascucci, assignors.)
- Corona Cord Tire Company. (See Park, Clarence S., assignor.)
- Corona Cord Tire Company. (See Fisher, Arthur C., assignor.)
- Cosgray, Mark C., assignor to The Matthews Engineering Company, Sandusky, Ohio. Electric automatic plant. No. 58,716; Aug. 30; v. 289; p. 956.
- Costantino, Gasparo, Niagara Falls, Ontario, Canada. Cobbler's tool. No. 58,717; Aug. 30; v. 289; p. 956.
- Coste, Emile, assignor to Titus Blatter & Company, New York, N. Y. Article of manufacture. No. 56,859; Jan. 4; v. 282; p. 160.
- Cotter, Richard H., Brooklyn, N. Y. Game-board. No. 59,820; Nov. 29.
- Cotter, Richard H., Brooklyn, N. Y. Game-board. No. 60,013; Dec. 20.
- Courtot, Louis, Paris, France, assignor to American Radiator Company, Chicago, Ill. Radiator-section. No. 57,818; May 10; v. 286; p. 370.
- Courtot, Louis, Paris, France. Radiator. No. 58,424; July 19; v. 288; p. 566.
- Couturier, Ernst A., Laporte, Ind. Mouthpiece for musical instruments. No. 57,511; Apr. 12; v. 285; p. 340.
- Cox Brass Manufacturing Company. (See Cox, William G., assignor.)
- Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-bumper. No. 58,718; Aug. 30; v. 289; p. 956.
- Cracraft, Julian L., Georgetown, Ky. Vehicle-wheel. No. 58,217; June 28; v. 287; p. 728.
- Cracraft, Julian L., Georgetown, Ky. Combined automobile radiator and hood. No. 58,287; July 5; v. 288; p. 163.
- Craig, Joseph R., Loudonville, Ohio. Body for a baby-carriage. No. 58,549; Aug. 2; v. 289; p. 128.
- Cramer, Stanley S., Camden, N. J. Pump-casing. No. 57,035; Feb. 1; v. 283; p. 130.
- Crampton, Alfred H., Stockton, Calif. Combination-tool. No. 58,663; Aug. 9; v. 289; p. 368.
- Crane, Raymond E., Wilmette, Ill. Washbasin. No. 57,770; May 3; v. 286; p. 153.
- Crawford, Stuart L., Rochester, N. Y. Combination tube container for fruit syrup, flavoring extracts, and fruit acids. No. 57,588; Apr. 26; v. 285; p. 720.
- Creelius, Theodore E., assignor to Multiplex Display Fixture Company, St. Louis, Mo. Gum-package-dispensing receptacle or similar article. No. 58,545; Aug. 2; v. 289; p. 127.
- Crex Carpet Company. (See Waldo, Algermont H., assignor.)
- Crimi, Salvatore, New York, N. Y. Combined clock and phonograph-cabinet. No. 57,892; May 17; v. 286; p. 581.
- Crockett, James B. (See Holtom, A. O., and Crockett.)
- Crompton & Knowles Loom Works. (See Regan, John, assignor.)
- Crosby, Alfred D., Attleboro, Mass. Collar-holder. No. 58,073; June 7; v. 287; p. 153.
- Cross, Elmer H., Toledo, Ohio. Air-cell formation of an automobile-radiator front. No. 59,457; Oct. 25.
- Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
- Crow, Donald F., Omaha, Nebr. Vehicle-tire. No. 56,911; Jan. 18; v. 282; p. 530.
- Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Dish. Nos. 57,819-21; May 10; v. 286; p. 370.
- Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Fruit-dish or article of similar nature. Nos. 57,822-4; May 10; v. 286; p. 371.



- Crowell, Frank S., assignor to The E. N. Riddle Co., Toledo, Ohio. Leg for candlesticks or other portable lamps. No. 58,074; June 7; v. 287; p. 153.
- Crowell, Frank S., assignor to The Edward N. Riddle Co., Toledo, Ohio. Lamp. No. 59,197; Oct. 4.
- Crowl, William W., Wellsburg, W. Va. Lamp-chimney. No. 57,114; Feb. 22; v. 283; p. 711.
- Cruet, Joseph M., New York, N. Y. Electric-lamp fixture. Nos. 59,821-2; Nov. 29.
- Crum, William L., Wichita, Kans. Cap. No. 58,306; July 12; v. 288; p. 359.
- Culp, George K., New York, N. Y., assignor to New England Tire and Rubber Company, Holyoke, Mass. Tire for automobile-wheels. No. 58,218; June 28; v. 287; p. 729.
- Cummings, Maud A., New York, N. Y. Doll. No. 57,316; Mar. 15; v. 284; p. 542.
- Cummins, Samuel, New York, N. Y. Cake of soap. No. 59,823; Nov. 29.
- Curren, Arthur J., Elyria, Ohio. Automatic-telephonic support. No. 57,213; Mar. 8; v. 284; p. 326.
- Curtis & Co. Mfg. Co. (See Steedman, Edwin H., assignor.)
- Curtis, Howard B. (See Frank, E. A., and Curtis.)
- Curtiss, George E., assignor to Landers, Frary & Clark, New Britain, Conn. Urn. No. 59,824; Nov. 29.
- Curtiss, George E., assignor to Landers, Frary & Clark, New Britain, Conn. Knob for cooking or kitchen utensils. No. 59,954; Dec. 13.
- Curtiss, Oliver C., Philadelphia, Pa. Toy savings-bank. No. 56,912; Jan. 18; v. 282; p. 530.
- Cusick, Mary B., New York, N. Y. Bank or similar article. No. 58,550; Aug. 2; v. 289; p. 128.
- Cutler-Hammer Mfg. Co., The. (See Klein, Charles J., assignor.)
- Dabrowski, Karol. (See Sala, S., and Dabrowski.)
- Dahir, Richard J., Omaha, Nebr. Game-board. No. 59,719; Nov. 22.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Shade for lighting-fixtures. No. 58,719; Aug. 30; v. 289; p. 956.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Bracket-back for lighting-fixtures. No. 58,720; Aug. 30; v. 289; p. 957.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Bracket-arm for lighting-fixtures. No. 58,721; Aug. 30; v. 289; p. 957.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Candle-cup for lighting-fixtures. No. 58,722; Aug. 30; v. 289; p. 957.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Support-plate for lighting-fixtures. Nos. 59,411-12; Oct. 18.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Socket-cover for lighting-fixtures. Nos. 59,413-14; Oct. 18.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Fixture-arm for lighting-fixtures. No. 59,415; Oct. 18.
- Daley, Eugene J., Jr., San Francisco, Calif. Game-board. No. 57,036; Feb. 1; v. 283; p. 130.
- Dalitz, Harry, Cleveland, Ohio. Window-fastener. No. 58,219; June 28; v. 287; p. 729.
- Dalitz, Harry, assignor to The Reliable Manufacturing Company, Cleveland, Ohio. Lens-plate. No. 59,720; Nov. 22.
- Dalitz, Harry, assignor to J. C. Hipp, Cleveland, Ohio. Steamer. No. 59,198; Oct. 4.
- Dalitz, Harry, assignor to J. C. Hipp, Cleveland, Ohio. Gas-heater. No. 59,199; Oct. 4.
- Dallas Brass & Copper Co. (See Kwatnez, Harry H., assignor.)
- Dalton, Hubert, New York, N. Y. Frame for combination lathe, drilling, and milling machines. No. 58,461; July 26; v. 288; p. 768.
- Dalton, Katherine C., Washington, D. C. Military cloak and skirt. No. 58,551; Aug. 2; v. 289; p. 128.
- Damon, Murray C., Leominster, Mass. Button. No. 57,825; May 10; v. 286; p. 371.
- Danforth, Josephine B., Chattanooga, Tenn. Automobile service-flag. No. 57,512; Apr. 12; v. 285; p. 340.
- Daniel, Alfred P., Houston, Tex. Badge, button, or pin. No. 59,623; Nov. 15.
- Daniels, Louis, New York, N. Y. Strainer. No. 57,589; Apr. 26; v. 285; p. 720.
- Danielson, Arvid G., Willmar, Minn. Frame for a paper-cutter or similar article. No. 59,064; Sept. 20; v. 290; p. 580.
- Daudy, Marc H., assignor to North American Lace Company, Philadelphia, Pa. Lace. No. 57,214; Mar. 8; v. 284; p. 326.
- Daudy, Marc H., assignor to North American Lace Company, Philadelphia, Pa. Lace. Nos. 57,513-14; Apr. 12; v. 285; p. 340.
- Daudy, Marc H., assignor to North American Lace Company, Philadelphia, Pa. Lace. No. 58,723; Aug. 30; v. 289; p. 957.
- Daudy, Marc H., assignor to North American Lace Company, Philadelphia, Pa. Lace. No. 58,998; Sept. 13; v. 290; p. 380.
- Daudy, Marc H., assignor to North American Lace Company, Philadelphia, Pa. Lace. No. 59,458; Oct. 25.
- Daudy, Marc H., assignor to North American Lace Company, Philadelphia, Pa. Lace. No. 60,014; Dec. 20.
- Davidovits, Louis, New York, N. Y. Statuette. No. 59,459; Oct. 25.
- Davidson, Fanny. (See Davidson, Joseph, assignor.)
- Davidson, Joseph, assignor to F. Davidson, Rockaway Beach, N. Y. Diamond-setting. No. 58,307; July 12; v. 288; p. 359.
- Davidson, Joseph W., Cincinnati, Ohio. Wall-bracket or candelabrum for electric and other illumination. No. 57,964; May 24; v. 286; p. 798.
- Daving, Joseph, New York, N. Y. Watchcase or locket. No. 58,021; May 31; v. 286; p. 1012.
- Davis, Donald V., assignor to J. S. Brauning, St. Louis, Mo. Toy car. No. 56,860; Jan. 4; v. 282; p. 160.
- Davis, Edward, and W. E. Holland, assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Battery-case. No. 59,200; Oct. 4.
- Davis, Elizabeth A., assignor to Blanck & Company, Inc., New York, N. Y. Lace. Nos. 59,721-3; Nov. 22.
- Davis, Francis G., Watertown, N. Y. Cab for auto-truck. No. 57,186; Mar. 1; v. 284; p. 144.
- Davis, George W., Lincoln, Nebr. Bar for holding plate-glass store-fronts. No. 57,590; Apr. 26; v. 285; p. 720.
- Davis, John A., Washington, D. C. Talking-machine. No. 58,552; Aug. 2; v. 289; p. 128.
- Davis, John A., Washington, D. C. Turntable for talking-machines. No. 58,553; Aug. 2; v. 289; p. 128.
- Davis, John H., Lexington, Ky., assignor to Charles O. Hadley, Philadelphia, Pa. Flexible shoe-horn. No. 57,115; Feb. 22; v. 283; p. 711.
- Davis, John H., Lexington, Ky., assignor to C. O. Hadly, Philadelphia, Pa. Phonograph-record case. No. 57,187; Mar. 1; v. 284; p. 144.
- Davis, Joseph, assignor to The Insel Company, Newark, N. J. Teething-rattle. No. 58,075; June 7; v. 287; p. 153.
- Davis, Milton K. (See McAfee, J. B., Benton, and Davis.)
- Daylite Lens Company. (See Wooten, Carrol R., assignor.)
- Dayton Display Fixture Company, The. (See Allen, Erhard, assignor.)
- Dazey, Nathan P., St. Louis, Mo. Churn-dasher. Nos. 60,015-16; Dec. 20.
- Deagan, John C., Chicago, Ill. Master tuning-fork and supporting-resonator. No. 56,959; Jan. 25; v. 282; p. 684.
- Dearborn, Charles A., New York, N. Y. Sewing-machine looper. No. 59,460; Oct. 25.
- Dearborn, Charles A., New York, N. Y. Sewing-machine presser-foot. No. 59,461; Oct. 25.
- Debs, Louis H. (See Cohn, A., and Debs.)
- Decker, Alenzo G. (See Black, S. D., and Decker.)
- Defiance Manufacturing Company. (See Baxter, Robert H., assignor.)
- Deig, Andrew M., Seattle, Wash. Combination checker-board and tray. No. 58,138; June 14; v. 287; p. 354.
- De Kazarine, Serge, and M. de Porohovchikova, London, England. Dressed doll. Nos. 59,513-14; Oct. 25.
- Delavan, Sophia E., Chicago, Ill. Doll. No. 57,515; Apr. 12; v. 285; p. 341.
- Delich, Petar, Duluth, Minn. Toy windmill. No. 56,960; Jan. 25; v. 282; p. 684.
- Delion Tire and Rubber Company. (See Price, John W., assignor.)
- Deltex Grass Rug Company. (See Case, Willard T., assignor.)
- De Lue, Edgar A., San Francisco, and C. E. Anable, Sacramento, Calif. Lock. No. 59,541; Nov. 1.
- Delta Electric Company. (See Stephenson, Walter B., assignor.)
- De Mille, Cecil B. (See West, Clare, assignor.)
- Democracy Playing Card Company. (See Gaffney, James C., assignor.)
- Dempsey, Walter E., Craig, Nebr. Repair-buckle. No. 57,591; Apr. 26; v. 285; p. 720.
- Denis, May F., East Orange, N. J. Brush and broom holder. No. 58,724; Aug. 30; v. 289; p. 957.
- Dennis, Edward C., and R. M. Shipley, Wichita, Kans. Emblem, badge, ring, stickpin, brooch, watch-charm, lapel-button, or other article of similar nature. No. 59,825; Nov. 29.
- Dennis, Edward C., and R. M. Shipley, Wichita, Kans. Emblem, badge, ring, stickpin, brooch, watch-charm, lapel-button, or article of similar nature. No. 59,984; Dec. 13.
- De Porohovchikova, Mary. (See de Kazarine and Porohovchikova.)
- De Reamer, Frank C., Schenectady, N. Y., assignor to General Electric Company. Combined snap-switch and plug-connector. No. 58,076; June 7; v. 287; p. 153.
- Desautels, Charles H., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 57,116; Feb. 22; v. 283; p. 712.
- Desenfant, George A., San Francisco, Calif. Badge. No. 57,516; Apr. 12; v. 285; p. 341.
- Desha, Orville U., Fort Collins, Colo. Frame for spectacles. No. 59,339; Oct. 11.
- De Smet, Edgard C., assignor to Pan Motor Company, St. Cloud, Minn. Automobile-radiator shell or hood. No. 57,592; Apr. 26; v. 285; p. 721.
- De Tamble, Edward S., assignor to Racine Accessories Manufacturing Co., Racine, Wis. Whistle. No. 59,340; Oct. 11.



*Alphabetical list of patentees of designs—Continued.*

- Detroit Pressed Steel Company. (See Putnam, Alden L., assignor.)
- Deupree, W. W. (See Hurt, Henry P., assignor.)
- De Velasco, Angel, New York, N. Y. Automobile-body. No. 57,117; Feb. 22; v. 283; p. 712.
- Dever, Harry A., Wilmette, Ill. Rear signaling device for automobiles. No. 58,999; Sept. 13; v. 290; p. 380.
- De Vilbiss Manufacturing Company, The. (See De Vilbiss, Thomas A., assignor.)
- De Vilbiss, Thomas A., assignor to The De Vilbiss Manufacturing Company, Toledo, Ohio. Atomizer-head. No. 59,624; Nov. 15.
- Diamond Match Company, The. (See Merritt, Edwin A., assignor.)
- Diamond Match Company, The. (See West, George R., assignor.)
- Diamond Toy Corporation, The. (See Newell, Peter S. H., assignor.)
- Dickerman, Franklin F., Philadelphia, Pa. Casing for street-receptacles. No. 57,593; Apr. 26; v. 285; p. 721.
- Dickinson, Edward B. (See Hancock, Arnold F., assignor.)
- Dickinson, Fredrick S., New York, N. Y., assignor to Perfection Tire & Rubber Company. Tire-casing. No. 58,181; June 21; v. 287; p. 547.
- Dickinson, Fredrick S., New York, N. Y. Tire-casing. No. 58,182; June 21; v. 287; p. 547.
- Diefenbach, Henry C., Dayton, Ohio. Toy block. No. 58,462; July 26; v. 288; p. 769.
- Dieges, Charles J., New York, N. Y. Badge. No. 52,517; Apr. 12; v. 285; p. 341.
- Dills, Henry S., Garrett, Ind. Fish-bait. Nos. 58,183-4; June 21; v. 287; p. 547.
- Dills, Henry S., Garrett, Ind., assignor of one-half to James Heddon's Sons, Incorporated, Dowagiac, Mich. Surface ornamentation for artificial bait. No. 58,139; June 14; v. 287; p. 354.
- Dittmar, Charles, Cincinnati, Ohio. Graphophone. No. 57,504; Apr. 26; v. 285; p. 721.
- Divine, Edward O., Central City, Nebr. Automobile ignition-shield. No. 57,771; May 3; v. 286; p. 153.
- Dixie Rubber Company, The. (See Greene, William J., assignor.)
- Dixon, Rachel T., assignor to Commercial Decalcomania Co., Inc., New York, N. Y. Plate or similar article. Nos. 57,317-18; Mar. 15; v. 284; pp. 542-3.
- Doan, Harry C., and C. J., Marson, Richmond, Ind. Piston-ring. No. 57,319; Mar. 15; v. 284; p. 543.
- Dodd, William E. (See Forbell, Charles H., assignor.)
- Dodge, Charles J., Brooklyn, N. Y. Sound-amplifier. No. 59,625; Nov. 15.
- Dodge, Frank W., assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Rubber ball or similar article. No. 59,542; Nov. 1.
- Dodge, William W., assignor to National Veneer Products Company, Mishawaka, Ind. Butterfly garment-retainer for wardrobe-trunks. No. 58,725; Aug. 20; v. 289; p. 957.
- Dodge, William W., assignor to National Veneer Products Company, Mishawaka, Ind. Oval garment-retainer for wardrobe-trunks. No. 58,726; Aug. 30; v. 289; p. 958.
- Dodson, Carroll E., Kansas City, Mo. Portable phonograph. No. 57,410; Mar. 22; v. 284; p. 722.
- Dodson, Joseph H., Kankakee, Ill. Chair. No. 58,554; Aug. 2; v. 289; p. 129.
- Dodson, Joseph H., Kankakee, Ill. Rocker. No. 58,555; Aug. 2; v. 289; p. 129.
- Doerre, Otto J., assignor to Chicago Papier-Mache Co., Chicago, Ill. Lamp-base. No. 59,581; Nov. 8.
- Doman, Alexander, assignor of one-half to N. M. Rosen, New York, N. Y. Hat-lining. No. 57,595; Apr. 26; v. 285; p. 721.
- Domingo y Cañellas, Joseph, Nice, France. Combined spoon and fork. No. 58,881; Sept. 6; v. 290; p. 144.
- Donahay, William, Chicago, Ill. Doll. Nos. 57,596-613; Apr. 26; v. 285; pp. 721-24.
- Donahay, William, Chicago, Ill. Doll house. Nos. 57,614-17; Apr. 26; v. 285; pp. 724-5.
- Donnelly, William J., Butte, Mont. Linoleum. No. 58,556; Aug. 2; v. 289; p. 129.
- Dorey, William A., Newark, Ohio, assignor to Holophane Glass Company, Inc., New York, N. Y. Prismatic glass globe. No. 57,618; Apr. 26; v. 285; p. 725.
- Dorsch, Max E., Chicago, Ill. Animal-trap. No. 57,320; Mar. 15; v. 284; p. 543.
- Dotson, Ora, assignor to C. G. Conn. Ltd. Double horn. No. 58,727; Aug. 30; v. 289; p. 958.
- Double Safety Signal Company. (See Edgerton, Israel V., assignor.)
- Doucette, William M., Yonkers, N. Y. Tire-tread. Nos. 59,065-9; Sept. 20; v. 290; pp. 580-1.
- Downes, Elmer N., assignor to McClaren Rubber Company, Charlotte, N. C. Non-skid tire-tread. Nos. 58,463-5; July 26; v. 288; p. 769.
- Downey, Eugene M., and C. P. Hepp, assignors of one-third to L. F. Cole, Waukesha, Wis. Automobile signal-lamp. No. 58,185; June 21; v. 287; p. 548.
- Downing, John B., assignor to Beaver Machine & Tool Company, Newark, N. J. Feed-through switch. No. 59,070; Sept. 20; v. 290; p. 581.
- Doyle, Dayton A., Jr., Akron, Ohio. Elastic vehicle-tire. No. 58,022; May 31; v. 286; p. 1012.
- Doyle, John, New York, N. Y. Shade, reflector, or similar article for a lighting-fixture. No. 59,201; Oct. 4.
- Drager, Regina T., Seattle, assignor of one-half to C. A. Shuart, King county, Wash. Ankle. No. 58,893; Sept. 6; v. 290; p. 147.
- Draper, Arthur P., Lebanon, Mo. Ruler. No. 59,462; Oct. 25.
- Draycott, Walter, assignor to Richmond Lace Works, Alton, R. I. Lace. Nos. 59,202-3; Oct. 4.
- Drey, Leo A., St. Louis, Mo., and J. L. Hiatt, Sapulpa, Okla., assignors to Schram Glass Manufacturing Co., St. Louis, Mo. Fruit-jar. No. 57,772; May 3; v. 286; p. 153.
- Drufva, John T., Long Meadow, Mass., assignor to Henry Hyman & Co., Inc., New York, N. Y. Contact device for portable electric lights. Nos. 58,894-6; Sept. 6; v. 290; p. 147.
- Drury, Herbert R., Willoughby, Ohio. Antiglare device for automobile-headlights. No. 57,619; Apr. 26; v. 285; p. 725.
- Duarte, George S., New York, N. Y. Radiator-shell. No. 59,724; Nov. 22.
- Duda, August, Staunton, Ill. Spike. No. 58,728; Aug. 30; v. 289; p. 958.
- Duda, August, Staunton, Ill. Link. No. 58,729; Aug. 30; v. 289; p. 958.
- Duda, August, Staunton, Ill. Stranded link. No. 58,730; Aug. 30; v. 289; p. 958.
- Dudley, Clifford C., assignor to H. L. Judd Company, Wallingford, Conn. Rack. No. 58,557; Aug. 2; v. 289; p. 129.
- Duersten, William E., New Castle, Pa. Non-skid tire. No. 57,118; Feb. 22; v. 283; p. 712.
- Duff Manufacturing Company. (See Kopf, John C., assignor.)
- Duke, Emily, assignor to Colgate & Company, New York, N. Y. Bottle. No. 59,071; Sept. 20; v. 290; p. 581.
- Dumas, Alfred P. (See Levasseur, P., and Dumas.)
- Dunbar Tire and Rubber Company. (See Riley, James R., assignor.)
- Dunbar, Wilmer, Greensburg, assignor to Allen-Tire & Rubber Company, Allentown, Pa. Automobile-tire. No. 57,073; Feb. 8; v. 283; p. 322.
- Dunham, George W., New York, N. Y., assignor to Graham Brothers, Evansville, Ind. Tractor. No. 58,466; July 26; v. 288; p. 769.
- Dunkelberger, Milton S., Dayton, Ohio. Collapsible baby-carriage. No. 57,773; May 3; v. 286; p. 153.
- Dunkelberger, Milton S., Dayton, Ohio. Combined fishing pole and reel. No. 59,204; Oct. 4.
- Dunlap, Alexander J., Lincoln, Nebr. Marker. No. 59,626; Nov. 15.
- Dunlop Rubber Company, The. (See Paull, Wallace H., assignor.)
- Dunn, Elmer C. (See Thornton, N. T., and Dunn.)
- Dunwoody, Isaac Z. (See Cavanaugh, J. P., and Porter, assignors.)
- Duodisk Steel Wheel Corporation. (See Lougheed, Victor, assignor.)
- Dupies, Victor J., Dallas, Tex. Automobile-radiator cap. No. 59,341; Oct. 11.
- Du Pont Motors. (See Maris, Arthur M., assignor.)
- Durand, Nelson C., Newark, assignor to New Jersey Patent Company, West Orange, N. J. Speaking-tube for phonographs. No. 59,543; Nov. 1.
- Durham, Fred S., Allentown, Pa., assignor to Bonney Vise & Tool Works, Inc., Philadelphia, Pa. Pliers. No. 58,467; July 26; v. 288; p. 770.
- Durney, Lloyd M., and H. J. Montgomery, Franklin, Pa. Signal for automobiles. No. 69,627; Nov. 15.
- Dusch, Joseph. (See McKinney, D. B., and Dusch.)
- Dutcher, Alfred M., St. Paul, Minn. Collar-pin. No. 59,463; Oct. 25.
- Dye, Clarence A., Toledo, Ohio. Collar-holding device. No. 58,220; June 28; v. 287; p. 729.
- Dykas, Mike, Chicago, Ill. Horse-collar. No. 59,826; Nov. 29.
- Earl, Harley J., Los Angeles, Calif. Automobile-body molding. No. 58,664; Aug. 9; v. 289; p. 368.
- Earl, Harley J., Los Angeles, Calif. Automobile-body. No. 58,665; Aug. 9; v. 289; p. 368.
- Earle, Horatio S., Detroit, Mich. Can-opener. No. 57,321; Mar. 15; v. 284; p. 543.
- Earle, Horatio S., Detroit, Mich. Blade for grass-hooks. No. 59,072; Sept. 20; v. 290; p. 581.
- East, Richard C., Evanston, Ill. Bed. No. 58,140; June 14; v. 287; p. 354.
- East, Richard C., Evanston, Ill. Cradle. No. 58,141; June 14; v. 287; p. 355.
- East, Richard C., Evanston, Ill. Costumer. No. 59,886; Dec. 6.
- Eaton, Albert N., Omaha, Nebr. Feed-trough. No. 57,119; Feb. 22; v. 283; p. 712.
- Eaton, Albert N., Omaha, Nebr. Feed-trough. No. 57,620; Apr. 26; v. 285; p. 725.
- Eberhard Faber Pencil Company. (See Faber, Lothar W., assignor.)
- Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Talcum-powder box. Nos. 57,621-5; Apr. 26; v. 285; pp. 726-7.



- Eberhart, Felix, Newark, N. J., assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 57,893; May 17; v. 286; p. 581.
- Eckert, Cora G., Los Angeles, Calif. Figure toy. No. 57,518; Apr. 12; v. 285; p. 341.
- Eckl, Edward, assignor to Los Angeles Brewing Company, Los Angeles, Calif. Bottle. No. 58,077; June 7; v. 287; p. 153.
- Eclipse Light Company. (See Newland, Isidor, assignor.)
- Edgerton, George L., Goldsboro, N. C. Salt brick. No. 56,913; Jan. 18; v. 282; p. 530.
- Edgerton, Israel V., assignor to Double Safety Signal Company, Chicago, Ill. Signal. No. 57,965; May 24; v. 286; p. 798.
- Egry Register Company, The. (See Stern, Milton C., assignor.)
- Ehrlich, Samuel T., Newark, N. J. Tire-tread. No. 59,073; Sept. 20; v. 290; p. 581.
- Eidlitz, Charles L., Co. (See Hartmann, Povl, assignor.)
- Eilert, George L., Jr., New York, N. Y. Button, badge, banner, or article of similar nature. No. 57,215; Mar. 8; v. 284; p. 326.
- Eisele, Adolphe, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 57,216; Mar. 8; v. 284; p. 327.
- Eisele, Adolphe, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 58,468-70; July 26; v. 288; p. 770.
- Eisele, Adolphe, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 58,897; Sept. 6; v. 290; p. 148.
- Eisenstadt Manufacturing Company. (See Jacobs, Jacob A., assignor.)
- Eisenstein, Harry, New York, assignor to The Montrose Glove, Inc., Brooklyn, N. Y. Glove. No. 57,626; Apr. 26; v. 285; p. 727.
- Eklund, Georg, Winona, Minn. Toy vehicle. No. 57,894; May 17; v. 286; p. 581.
- Elderkin, James K., Newark, N. J. Rectifier. No. 59,628; Nov. 15.
- Elderkin, James K., Newark, N. J. Battery-tester. No. 59,629; Nov. 15.
- Electric Outlet Company. (See White, Ernest C., assignor.)
- Electric Vacuum Cleaner Company. (See Brintzenhofe, Otto, assignor.)
- Electric Vulcanizing Rubber Company, The. (See Weiler, Edward G., assignor.)
- Electric Welding Machine Company. (See Harvey, Sidney M., assignor.)
- Electro Dental Manufacturing Company. (See Russell, Percy, assignor.)
- Electro Dental Manufacturing Company. (See Russell, P., Schramm, and Woodward, assignors.)
- Eles Jewelry Co. (See Lapidus, Isidore H., assignor.)
- Eliasoff, Abraham L., Brooklyn, and C. Birnbaum, New York, N. Y. Gem-setting. Nos. 57,217-18; Mar. 8; v. 284; p. 327.
- Ellason, Frithjof H., and W. F. Schwahl, Newark, N. J. Intensifier for spark-plugs. No. 57,074; Feb. 8; v. 283; p. 322.
- Elliott, Clair H., and A. Supansick, assignors of one-third to E. Loos, San Diego, Calif. Electric-lamp stand. No. 58,898; Sept. 6; v. 290; p. 148.
- Elliott, Clarence E., and O. O. Nichols, Kansas City, Mo. Ornament for a radiator-cap. No. 58,899; Sept. 6; v. 290; p. 148.
- Elliott, Clarence E., and O. L. Nichols, Kansas City, Mo. Radiator ornament. No. 59,725; Nov. 22.
- Ellis, Frederick F., Los Angeles, Calif. Traffic-signal. No. 59,726; Nov. 22.
- Ellis, Luverne K., Des Moines, Ia. Individual hog-house. No. 60,087; Dec. 27.
- Ellsworth, Ada W., Chicago, Ill. Child's coat. No. 57,322; Mar. 15; v. 284; p. 543.
- Elsener, Carl, Ibach-Schwyz, Switzerland. Safety-razor. No. 59,544; Nov. 1.
- Embanks, Fred M., Cleveland, Ohio. Railway-spike. No. 58,221; June 28; v. 287; p. 729.
- Emerson, Jerome E. (See Ransom, H. L., and Emerson.)
- Engelhardt, Martin M., New York, N. Y., assignor to L. Barth & Son. Plate or similar article. No. 58,471; July 26; v. 288; p. 770.
- Engelhardt, Martin M., New York, N. Y., assignor to L. Barth & Son. Plate and similar article. No. 59,205; Oct. 4.
- Englander, Benjamin B., assignor to Englander Spring Bed Company, Brooklyn, N. Y. Hammock. No. 59,630; Nov. 15.
- Englander Spring Bed Company. (See Englander, Benjamin B., assignor.)
- English, Andrew J., and C. J. Hart, Cincinnati, Ohio. Tire-tool. No. 58,472; July 26; v. 288; p. 770.
- Ennis, Overton W., Washington, D. C. Doll. No. 57,519; Apr. 12; v. 285; p. 341.
- Ensign, Emory S., Jamaica, N. Y. Bob-sled. No. 59,000; Sept. 13; v. 290; p. 380.
- Ensten, Louis H., Cleveland, Ohio. Cap. No. 59,464; Oct. 25.
- Enterprise Manufacturing Co., The. (See Pffueger, Charles T., assignor.)
- Erickson, Claus E., Des Moines, Iowa. Soap-holder. No. 59,727; Nov. 22.
- Erikson, Gustav A., Chicago, Ill. Chair. No. 57,627; Apr. 26; v. 285; p. 727.
- Essayan, Harold G., Providence, R. I. Emblem, badge, stickpin, or similar article. No. 59,631; Nov. 15.
- Essex Rubber Company. (See Sanders, Walter E., assignor.)
- Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)
- Estes, Thomas W., Jr., Brooklyn, N. Y. Textile fabric. Nos. 59,465-6; Oct. 25.
- Estes, Thomas W., Jr., Brooklyn, N. Y. Textile fabric. No. 59,545; Nov. 1.
- Eureka Vacuum Cleaner Company. (See Field, Egbert R., assignor.)
- Eustis, J. P., Manufacturing Company. (See Eustis, John P., assignor.)
- Eustis, John P., Newton, assignor to J. P. Eustis Manufacturing Company, Cambridge, Mass. Screw or similar article. No. 58,666; Aug. 9; v. 289; p. 368.
- Evans, Cullen C., Los Angeles, Calif. Wrench. No. 57,323; Mar. 15; v. 284; p. 543.
- Evenden, Alfred J., J. D. and J. A. Casey, Rome, N. Y. Pincers. No. 59,827; Nov. 29.
- Faber, Lothar W., New York, N. Y., assignor to Eberhard Faber Pencil Company. Brush attachment for erasers. No. 57,219; Mar. 8; v. 284; p. 327.
- Fadum & Jackson. (See Fadum, Torgeir B., assignor.)
- Fadum, Torgeir B., La Salle, assignor to Fadum & Jackson, Niagara Falls, N. Y. Heel-plate. No. 57,826; May 10; v. 286; p. 371.
- Fageol Motors Company. (See Kelly, Isaac J., assignor.)
- Fageol, Rollie B., Oakland, Calif. Motor-vehicle fender. No. 59,342; Oct. 11.
- Fageol, Rollie B., Oakland, Calif. Motor-vehicle wheel and fender assembly. Nos. 59,728-9; Nov. 22.
- Fahys, Joseph & Company. (See Gordon, Peter T., assignor.)
- Fairbank, N. K., Company, The. (See Lang, Arthur C., assignor.)
- Fallon, Perlle P. (See Phillips, Ross M. G., assignor.)
- Farber, Harry and L., New York, N. Y. Fruit-bowl. No. 56,861; Jan. 4; v. 282; p. 160.
- Farber, Harry and L., New York, N. Y. Casserole. No. 56,914; Jan. 18; v. 282; p. 530.
- Farber, Harry and L., New York, N. Y. Compote. No. 56,961; Jan. 25; v. 282; p. 684.
- Farber, Harry and L., New York, N. Y. Bonbon dish. No. 57,827; May 10; v. 286; p. 371.
- Farber, Louis. (See Farber, Harry and L.)
- Faries Manufacturing Co. (See Bowen, Michael B., assignor.)
- Faries Manufacturing Co. (See Grady, William J., assignor.)
- Farkas, Manny, New York, N. Y. Stocking. No. 59,546; Nov. 1.
- Farnham, Charles F., Lorain, Ohio, assignor to American Stove Company, St. Louis, Mo. Display-card. No. 59,955; Dec. 13.
- Farr, Edward A., assignor to Manning, Bowman & Co., Meriden, Conn. Percolating-urn. No. 58,473; July 26; v. 288; p. 771.
- Fausser, Gustave M., New York, N. Y., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. No. 58,731; Aug. 30; v. 289; p. 958.
- Faultless Rubber Company, The. (See Kaupmann, Frederick, Jr., assignor.)
- Fawk, Henry H., San Francisco, Calif. Bramble-bird. No. 56,962; Jan. 25; v. 282; p. 684.
- Feagans, George E., Los Angeles, Calif. Button. No. 59,206; Oct. 4.
- Febrey, Harold H., Newark, N. J. Bookrack. No. 60,017; Dec. 20.
- Fechteler, William, Kansas City, Mo. Combination cigar-cutter and box-opener. No. 60,089; Dec. 27.
- Federal Tin Company. (See Svendsen, Ole M., assignor.)
- Feiertag, John E., Milford, Ohio. Spoon-holder. No. 59,632; Nov. 15.
- Feist, Bertha E., New York, N. Y. Rag doll or article of similar nature. No. 59,467; Oct. 25.
- Felix, Hugo I., Kansas City, Mo. Combined tie-fastener and soft-collar retainer. No. 58,667; Aug. 9; v. 289; p. 369.
- Fern, John A., Cincinnati, Ohio. Phonograph-case. Nos. 57,828-9; May 10; v. 286; p. 372.
- Ferreira, Charles E., assignor to Art Rattan Works, San Francisco, Calif. Phonograph-cabinet. No. 57,895; May 17; v. 286; p. 581.
- Ferry, Eudora B., Murray, Idaho. Wheeled toy. Nos. 59,343-4; Oct. 11.
- Fessenden and Company, Inc. (See Harmstone, John H., assignor.)
- Fetzer, S. P., et al., trustees. (See Laws, Arthur J., assignor.)
- Fiberbone Company, The. (See Fredericks, Maurice B., assignor.)
- Field, Egbert R., assignor to Eureka Vacuum Cleaner Company, Detroit, Mich. Fan. No. 58,732; Aug. 30; v. 289; p. 959.
- Field, Walter E., Providence, R. I. Collar-fastener. No. 58,733; Aug. 30; v. 289; p. 959.
- Fields, Ottileee, Kansas City, Mo. Towel hanger and marker. No. 56,963; Jan. 25; v. 282; p. 685.
- Findlay, Robert Manufacturing Co. (See Kostszewski, Stephen, assignor.)



*Alphabetical list of patentees of designs—Continued.*

- Findlay, Robert, Manufacturing Co. (See Smith, Curtis A., assignor.)
- Findlay, Robert, Mfg. Company. (See Schwartz, Frederick, assignor.)
- Finger, Max, Chicago, Ill. Cake of soap. No. 59,416; Oct. 18.
- Finley, William S., Cleveland Heights, Ohio. Savings-bank. No. 59,730; Nov. 22.
- Finney, Charles S., Chicago, Ill. Beard-softener. No. 57,628; Apr. 26; v. 285; p. 727.
- Finucane, John J., assignor to Washerette Corporation, Rochester, N. Y. Washing-machine. No. 59,828; Nov. 29.
- Firestone Tire and Rubber Company, The. (See Meyer, Leroy E., assignor.)
- Fischer, Howard L. (See Kristofek, F. J., and Fischer.)
- Fischer, Howard L., St. Paul, Minn. Pencil. No. 59,731; Nov. 22.
- Fischer, Joseph, Belleville, assignor to M. T. Goldsmith, Essex county, N. J. Handbag-frame. Nos. 56,915-16; Jan. 18; v. 282; p. 530.
- Fischer, William, New York, N. Y. Lapel-button anchor. No. 59,732; Nov. 22.
- Fish, Oscar B., St. George, N. Y. Pen and pencil holder. Nos. 58,425-34; July 19; v. 288; pp. 566-8.
- Fishel, Henry W., New York, N. Y. Article of jewelry. Nos. 58,309-10; July 12; v. 288; p. 360.
- Fishel, Henry W., New York, N. Y. Article of jewelry—namely, a pin, brooch, or article of similar nature. Nos. 59,636-44; Nov. 15.
- Fishel, Leslie H., New York, N. Y. Buckle. Nos. 59,633-5; Nov. 15.
- Fisher, Abraham C., New York, N. Y. Lady's handbag. No. 58,558; Aug. 2; v. 289; p. 129.
- Fisher, Arthur C., Butler, assignor to Corona Cord Tire Company, East Butler, Pa. Rubber tire. No. 57,120; Feb. 22; v. 283; p. 712.
- Fisher, Charles, assignor to The Automatic Recording Safe Company, Chicago, Ill. Savings-bank. Nos. 59,733-4; Nov. 22.
- Fisher, Kenneth G., Tacoma, Wash. Signboard for weighing-scales. No. 59,001; Sept. 13; v. 290; p. 381.
- Fisk Rubber Company, The. (See Balthazar, A., and Shaw, assignors.)
- Fisk Rubber Company, The. (See Desautels, Charles H., assignor.)
- Fisk Rubber Company, The. (See Gourley, R. P., and Partenheimer, assignors.)
- Fitz Gerald, Harold G., Los Angeles, Calif. Spot-light. No. 56,964; Jan. 25; v. 282; p. 685.
- Fitzgerald, Joseph G., San Francisco, Calif. Lamp-stand. No. 58,559; Aug. 2; v. 289; p. 129.
- Flanders, A. H., Company. (See Flanders, Alice H., assignor.)
- Flanders, Alice H., assignor to A. H. Flanders Company, Chicago, Ill. Woman's blouse. No. 57,220; Mar. 8; v. 284; p. 327.
- Flauder, Alfred J., Bridgeport, Conn. Combined perfumer and disinfectant. No. 59,468; Oct. 25.
- Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Combined perfumer and disinfectant. No. 59,829; Nov. 29.
- Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Combined perfumer and disinfectant. No. 59,830-31; Nov. 29.
- Fleckenstein Visible Gasometer Company. (See Fleckenstein, Jackson, assignor.)
- Fleckenstein, Jackson, assignor to Fleckenstein Visible Gasometer Company, Grand Rapids, Mich. Liquid-dispensing apparatus. No. 57,426; Mar. 29; v. 284; p. 911.
- Flemming, Charles F., assignor to The Miller Rubber Company, Akron, Ohio. Sponge doll. Nos. 59,547-51; Nov. 1.
- Fletcher, Elmer, assignor to Fletcher-Wickes Co., Chicago, Ill. Tone-arm for phonographs. No. 59,832; Nov. 29.
- Fletcher-Wickes Co. (See Fletcher, Elmer, assignor.)
- Flint, William G., Colton, Calif. Display show-card or similar article. No. 56,862; Jan. 4; v. 282; p. 160.
- Fluharty, William G., Rockville Center, N. Y. Tape-transmitter casing. No. 59,956; Dec. 13.
- Foley, Joseph J., Chicago, Ill. Automobile-door. No. 58,734; Aug. 30; v. 289; p. 959.
- Follender, Otto, East Islip, N. Y. Doll-wig. No. 58,900; Sept. 6; v. 290; p. 148.
- Foltz, Stewart P., New Castle, Pa., assignor to H. H. Weinberger, New York, N. Y. Coin or token. No. 60,018; Dec. 20.
- Foot, Edward H., Somerville, Mass. Milk-bottle-cap remover. No. 59,645; Nov. 15.
- Forbell, Charles H., Douglas Manor, assignor to W. E. Dodd, New York, N. Y. Advertising novelty. No. 60,019; Dec. 20.
- Ford Motor Company. (See Galamb, Joseph, assignor.)
- Ford Meter Box Company. (See Kelch, Lloyd, assignor.)
- Foresman, Guy E., La Fayette, Ind. Automobile-tire tread. No. 57,830; May 10; v. 286; p. 372.
- Forrest, Truman H., Seattle, Wash. Portable liquid-dispensing apparatus. No. 60,090; Dec. 27.
- Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Electrically-heated waffle-iron. No. 59,957; Dec. 13.
- Forsyth, George H., Chicago, Ill. Wheel. Nos. 57,966-7; May 24; v. 286; pp. 798-9.
- Fortune, Marjorie P. D., Los Angeles, Calif. Pencil. No. 57,520; Apr. 12; v. 285; p. 342.
- Fortune, Marjorie P. D., Los Angeles, Calif. Statuette. No. 59,207; Oct. 4.
- Foster, Benjamin J., assignor to Samstag & Hilder Bros., New York, N. Y. Comb. No. 58,474; July 26; v. 288; p. 771.
- Foster-Milburn Company. (See Baillett, Carl J., assignor.)
- Foster Rubber Company. (See Hooper, Edward J., assignor.)
- Fox, Jacob, New York, N. Y., assignor to Thalheimer Brothers, New York, N. Y. Button. No. 57,324; Mar. 15; v. 284; p. 544.
- Fox, Jacob, New York, N. Y., assignor to Thalheimer Brothers, East Orange, and W. J. Klein, South Orange, N. J. Button. No. 57,629; Apr. 26; v. 285; p. 727.
- Fox, Walter L., Brooklyn, N. Y. Desk. No. 57,075; Feb. 8; v. 283; p. 322.
- Frampton, Benjamin W., Cleveland, Ohio. Nail-set. No. 57,630; Apr. 26; v. 285; p. 727.
- Francis, Victor R., Detroit, Mich. Wheel-chock. No. 57,774; May 3; v. 286; p. 153.
- Frank, David C., assignor to Pelgram & Meyer, New York, N. Y. Narrow fabric. Nos. 58,475-6; July 26; v. 288; p. 771.
- Frank, Edward A., and H. B. Curtis, Seneca Falls, N. Y. Emblem, badge, pin, fob, ring, or like article. No. 56,965; Jan. 25; v. 282; p. 685.
- Frankel, Dave, Cleveland, Ohio. Shell of a lighting-fixture. No. 57,221; Mar. 8; v. 284; p. 327.
- Frankelite Co. The. (See Holz, Bernard, assignor.)
- Franklin Knitting Mills. (See Worms, Sidney, assignor.)
- Franklin Optical Company. (See Bugbee, Lucian W., assignor.)
- Fratl, Alfred, assignor to Titus Blatter & Company, New York, N. Y. Textile fabric or article of similar nature. No. 58,735; Aug. 30; v. 289; p. 959.
- Fratl, Alfred, assignor to Titus Blatter & Company, New York, N. Y. Textile fabric or article of similar nature. Nos. 59,208-9; Oct. 4.
- Fraass, August E., New Rochelle, N. Y. Suction-bulb. No. 59,646; Nov. 15.
- Frank, Adolph, New York, N. Y. Stone-setting. No. 59,552; Nov. 1.
- Frederick, Carl K., Detroit, Mich. Set of playing-cards. No. 57,896; May 17; v. 286; p. 581.
- Frederick, Timothy D., San Francisco, Calif. Rule-holder. No. 57,831; May 10; v. 286; p. 372.
- Fredericks, Maurice B., assignor to The Fiberglass Company, Waltham, Mass. Protective cover for a loom picker. No. 59,002; Sept. 13; v. 290; p. 381.
- Fredericks, Maurice B., assignor to The Fiberglass Company, Waltham, Mass. Picker for a loom. No. 59,003; Sept. 13; v. 290; p. 381.
- Freeman, Alida G., Great Neck, N. Y. Blank for changeable-shape sport-hats. No. 59,887; Dec. 6.
- Freeman, Lottie E., Boston, Mass. Child's garment. No. 57,222; Mar. 8; v. 284; p. 328.
- Freeman, Lottie E., Boston, Mass. Child's garment. No. 58,308; July 12; v. 288; p. 359.
- Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric-candle chandelier. No. 57,427; Mar. 29; v. 284; p. 911.
- Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric-candle wall-sconce. No. 57,428; Mar. 29; v. 284; p. 912.
- Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric-candle chandelier. No. 57,429; Mar. 29; v. 284; p. 912.
- Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric chandelier. No. 58,736; Aug. 30; v. 289; p. 959.
- Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric ceiling-fixture. No. 58,737; Aug. 30; v. 289; p. 959.
- Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric chandelier. Nos. 58,738-9; Aug. 30; v. 289; p. 960.
- Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric ceiling fixture. No. 58,740; Aug. 30; v. 289; p. 960.
- Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric wall-bracket. No. 58,741; Aug. 30; v. 289; p. 960.
- Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric ceiling fixture. No. 58,742; Aug. 30; v. 289; p. 960.
- Friberg, Edwin, Jamaica, N. Y. Combination phonograph-cabinet, desk, and bookcase. No. 56,917; Jan. 18; v. 282; p. 531.
- Friedlander, William S., Passaic, N. J., assignor to Tate Electrolytic Textile Processes, Incorporated, New York, N. Y. Cotton fabric for tents and the like. No. 58,743; Aug. 30; v. 289; p. 961.
- Friedley-Voshardt Co. (See Mohrmann, Paul, assignor.)
- Friedly Voshardt Co. (See Wellman, Lester R., assignor.)
- Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Acetylene-lamp. No. 67,037; Feb. 1; v. 283; p. 130.



*Alphabetical list of patentees of designs—Continued.*

- Fritch, Elue O. (See Glidden, A. A., Buell, and Fritch.)  
 Fritch, Elue O., Belmont, Mass., assignor to Hood Rubber Company, Watertown, Mass. Non-skid tread for automobile tires. No. 57,631; Apr. 26; v. 285; p. 728.  
 Fritz, John, New Bedford, Mass. Toy. No. 57,038; Feb. 1; v. 283; p. 130.  
 Frost, Clinton E., Cleveland, Ohio. Amusement device. No. 59,582; Nov. 8.  
 Frost, Karl, and O. Jessl, Chicago, Ill. Combination toothbrush, paste, and glass holder. No. 59,647; Nov. 15.  
 Frost, Ralph I., assignor to The Geo. W. Brown & Son State Bank, trustee, Augusta, Kans. Casing for an electrical generator. No. 58,560; Aug. 2; v. 289; p. 130.  
 Fuld, William A. (See Norwood, Harry G., assignor.)  
 Fuller Brush Company, The. (See Hines, William J., assignor.)  
 Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Match-receptacle. No. 57,632; Apr. 26; v. 285; p. 728.  
 Fuller, Frederick L., Ilion, N. Y., assignor to Remington Arms Company, Inc. Cash-register. No. 59,735; Nov. 22.  
 Fulton, George T., Grand Island, Nebr. Toy aeroplane. No. 58,078; June 7; v. 287; p. 153.  
 Funk, Oscar F., Lancaster, Pa. Sign. No. 58,561; Aug. 2; v. 289; p. 130.  
 Fynn, Penelope, Denver, Colo. Doll. No. 59,210; Oct. 4.  
 Gable, Louis A., Harrisburg, Pa. Combined tooth-cleaner and support. Nos. 58,668-9; Aug. 9; v. 289; p. 369.  
 Gaertner, Victor, New York, N. Y. Article of hollow tableware. Nos. 57,832-3; May 10; v. 286; p. 372.  
 Gaffney, James C., New York, N. Y., assignor to Democracy Playing Card Company, Incorporated. Playing-card. No. 57,325; Mar. 15; v. 284; p. 544.  
 Gage, Samuel, Holloway, London, assignor to The London General Omnibus Company, Limited, Broadway, Westminster, London, England. Motor-omnibus body. No. 58,288; July 5; v. 288; p. 164.  
 Gagnon, William J., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Tassel. No. 59,469; Oct. 25.  
 Gaisman, Henry J., New York, N. Y. Safety-razor blade. No. 59,345; Oct. 11.  
 Galamb, Joseph, Detroit, assignor to Ford Motor Company, Highland Park, Mich. Tire-carrier. No. 57,897; May 17; v. 286; p. 581.  
 Gallagher, Harry J., assignor to Kokomo Brass Works, Kokomo, Ind. Staff-head. No. 59,074; Sept. 20; v. 290; p. 582.  
 Gambill, Charles E., Oak Park, Ill. Engine-frame. No. 59,833; Nov. 29.  
 Gardner, Charles T., New York, assignor to Ajax Rubber Company, Inc., Millbrook, N. Y. Tire-tread. No. 59,075; Sept. 20; v. 290; p. 582.  
 Gardner, Robert L., St. Louis, Mo. Photograph-holder. No. 57,188; Mar. 1; v. 284; p. 144.  
 Gardner, Virginia, Denver, Colo. Slipper. No. 57,121; Feb. 22; v. 283; p. 712.  
 Garman, George W., Philadelphia, Pa. Pump-casing. No. 57,039; Feb. 1; v. 283; p. 130.  
 Garin, George P., Chicago, Ill. Game-board. No. 58,670; Aug. 9; v. 289; p. 369.  
 Gaston, Charlie, Chicago, Ill., assignor to The Ashton Valve Company, Boston, Mass. Pressure-indicating gage. No. 58,477; July 26; v. 288; p. 772.  
 Gaston, Charlie, Long Run, Ky., assignor to The Ashton Valve Company, Boston, Mass. Pressure-indicating gage. No. 60,020; Dec. 20.  
 Ganutt, Warren S., Kansas City, Mo. Tire-tread. No. 58,478; July 26; v. 288; p. 772.  
 Geary, John H., Chicago, Ill. Military-service button. No. 58,311; July 12; v. 288; p. 360.  
 Gebhardt, Dixie C., Knoxville, Iowa, assignor to the State of Iowa. Flag. No. 57,223; Mar. 8; v. 284; p. 328.  
 Gedney, Stanley L., Maplewood, N. J. Collar-fastener. No. 58,744; Aug. 30; v. 289; p. 961.  
 Gegenheimer, George, Baldwin, Long Island, assignor to Golding Bros. Company, New York, N. Y. Fabric. Nos. 59,834-7; Nov. 29.  
 Geiger, Carl F., and F. C. Geiler, Dayton, Ohio. Domestic-refrigerator compressor-casing. No. 57,326; Mar. 15; v. 284; p. 544.  
 Geiler, Frederick C. (See Geiger, C. F., and Geller.)  
 Geisman, Samuel, New York, N. Y. Cover. No. 58,562; Aug. 2; v. 289; p. 130.  
 Geissler, Frank J., San Francisco, Calif. Statuette. No. 58,901; Sept. 6; v. 290; p. 148.  
 Gelder, Leo V., Oakland, Calif. Domestic-boller stand. No. 57,521; Apr. 12; v. 285; p. 342.  
 Gelder, Leo V., Oakland, Calif. Gas-burner for water-heaters. No. 57,633; Apr. 26; v. 285; p. 728.  
 Gelder, Leo V., Oakland, Calif. Preheating-chamber for domestic boilers. No. 58,023; May 31; v. 286; p. 1013.  
 General Electric Company. (See De Reamer, Frank C., assignor.)  
 General Electric Company. (See Gosling, Joseph, assignor.)  
 General Electric Company. (See Harrison, Ward, assignor.)  
 General Gas Light Company. (See Humphrey, Alfred H., assignor.)  
 General Motors Corporation. (See Sturt, Alfred T., assignor.)  
 General Motors Corporation. (See Anibal, Benjamin H., assignor.)  
 General Motors Corporation. (See Madison, George E., assignor.)  
 Granby Phonograph Corporation. (See Howard, Edmond C., assignor.)  
 General Phonograph Manufacturing Company, The. (See Kunkle, George R., assignor.)  
 General Tire and Rubber Co. (See Iredell, Robert, assignor.)  
 General Top Company, The. (See Lowery, James, assignor.)  
 Geo. W. Brown & Son State Bank, trustee. (See Frost, Ralph I., assignor.)  
 George H. Bowman Company, The. (See Osborne, William T., assignor.)  
 George, Maude S., St. Louis, Mo. Garment-protector. No. 59,736; Nov. 22.  
 Georger, Clifford H., Buffalo, N. Y. Stand for automobile signals. No. 56,966; Jan. 25; v. 282; p. 685.  
 Giant Tire & Rubber Company, The. (See Breitenstein, Arthur L., assignor.)  
 Giammarino, Joseph, assignor to O. Walsh M'fg. Co., New York, N. Y. Wall-plate for mounting electric arms. No. 57,634; Apr. 26; v. 285; p. 728.  
 Gibson, Charles B., Chicago, Ill. Non-skid plate for automobiles. No. 57,898; May 17; v. 286; p. 582.  
 Gibson, Wesley B., East Orange, N. J. Toothbrush. No. 57,827; Mar. 15; v. 284; p. 544.  
 Glidden, Alfred A., assignor to Hood Rubber Company, Watertown, Mass. Non-skid tread for automobile-tires. No. 58,080; June 7; v. 287; p. 154.  
 Gielas, Louis, Washington, D. C. Advertising-sign or similar article. No. 58,435; July 19; v. 288; p. 569.  
 Giebler-Wanke, Christoph A., New York, N. Y. Doll. Nos. 57,189-90; Mar. 1; v. 284; pp. 144-5.  
 Giese, Richard S., Pittsburgh, Pa. Surface ornamentation of a shade, globe, or illuminating-bowl. Nos. 56,863-8; Jan. 4; v. 282; pp. 160-61.  
 Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)  
 Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Motor-fan guard. No. 58,903; Sept. 6; v. 290; p. 149.  
 Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Electric-motor casing. No. 58,904; Sept. 6; v. 290; p. 149.  
 Gilbert, Ruby, Etiwanda, Calif. Rompers. No. 58,902; Sept. 6; v. 290; p. 148.  
 Gill Brothers Company (See Beiswanger, John, assignor.) (Reissue.)  
 Gill, Helen V., Spring Valley, Minn. Bolt. No. 59,346; Oct. 11.  
 Gillette, Raymond B., and R. W. Hutchens, Eau Claire, Wis. Tire-tread. No. 56,918; Jan. 18; v. 282; p. 531.  
 Gillig, Chester. (See Gillig, Leo and C.)  
 Gillig, Leo and C., San Francisco, Calif. Automobile-top. No. 57,635; Apr. 26; v. 285; p. 729.  
 Girl Scouts, Incorporated. (See Rippin, Jane D., assignor.)  
 Githens, Herbert A., Milwaukee, Wis. Tire. Nos. 57,122-5; Feb. 22; v. 283; p. 713.  
 Gits, Jules P., Chicago, Ill. Razor-knife. No. 57,636; Apr. 26; v. 285; p. 729.  
 Glass, Henry, & Co. (See Wilner, Max, assignor.)  
 Gray, George W., Seattle, Wash. Display-counter. No. 60,021; Dec. 20.  
 Grayson, J. H. Manufacturing Company, The. (See Grayson, John H., assignor.)  
 Grayson, John H., Athens, Ohio. Gas-heater. Nos. 60,022-3; Dec. 20.  
 Grayson, John H., assignor to The J. H. Grayson Manufacturing Company, Athens, Ohio. Gas-heater. No. 59,888; Dec. 6.  
 Gledhill, James S., and W. H. Smith, Los Angeles, Calif. Animal figure. No. 59,470; Oct. 25.  
 Glenn, John W., Buffalo, N. Y. Top. No. 58,079; June 7; v. 287; p. 154.  
 Glenn, John W., Buffalo, N. Y. Whistle. No. 59,737; Nov. 22.  
 Glidden, Alfred A., G. G. Buell, Watertown, and E. O. Fritch, Belmont, assignors to Hood Rubber Company, Watertown, Mass. Tire-tread. No. 58,081; June 7; v. 287; p. 154.  
 Globe Rubber Tire Manufacturing Company. (See Kugler, Herbert W., assignor.)  
 Globe Stove & Range Co., The. (See Hamlin, Louis R., assignor.)  
 Glowicki, Alexander, Cincinnati, Ohio. Motor-casing. No. 58,222; June 28; v. 287; p. 729.  
 Goehring, Phillip, Seattle, Wash. Toy. No. 58,142; June 14; v. 287; p. 355.  
 Goldberg, Henry, Paterson, N. J. Talcum-powder can. No. 58,563; Aug. 2; v. 289; p. 130.  
 Goldberg, Louis, Chicago, Ill. Electric-lighting fixture. No. 56,869; Jan. 4; v. 282; p. 161.  
 Golding Bros. Company. (See Gegenheimer, George, assignor.)  
 Goodrich, B. F., Company, The. (See Robb, Arthur A., assignor.)



## Alphabetical list of patentees of designs—Continued.

- Goldsmith, Marcus T. (See Fischer, Joseph, assignor.)  
 Goldsmith, Mary, St. Louis, Mo. Combined culinary masher and spoon. No. 58,223; June 28; v. 287; p. 729.  
 Goldstein, Eli B., Chicago, Ill. Inkwell. No. 59,004; Sept. 13; v. 290; p. 381.  
 Goldstein, Morris L., Providence, R. I. Charm or pendant. No. 59,211; Oct. 4.  
 Gollesch, Martin E., Plankinton, S. D. Finger-ring or similar article. No. 58,312; July 12; v. 288; p. 360.  
 Golubski, John, Grand Rapids, Mich. Piano-bench. No. 57,328; Mar. 15; v. 284; p. 544.  
 Goodale, Delia, Fort Collins, Colo. Service-tray. No. 57,968; May 24; v. 286; p. 799.  
 Goodell-Pratt Company. (See Scott, Creston W., assignor.)  
 Goodlake, Frederick D., Memphis, Tenn. Deflating-valve key. No. 57,329; Mar. 15; v. 284; p. 544.  
 Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Face of an electrical attachment-plug device. No. 58,082; June 7; v. 287; p. 154.  
 Goodridge, Gilbert W., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Bottle-cap. No. 58,671; Aug. 9; v. 289; p. 369.  
 Goodrich, B. F., Company, The. (See Pierson, Robert M., assignor.)  
 Goodrich, B. F., Company, The. (See Tew, James D., assignor.)  
 Goodwin, Charles W., *et al.* (See Hopkins, James H., assignor.)  
 Goodwin, John D. (See Stipes, R. B., Goodwin, and Welch.)  
 Goodyear Tire & Rubber Company, The. (See Hoover, Clair G., assignor.)  
 Goodyear Tire & Rubber Company, The. (See Keith, Walter P., assignor.)  
 Goodyear Tire and Rubber Company. (See Kilborn, K. B., and Wolfe, assignors.)  
 Goodyear Tire & Rubber Company, The. (See Trogner, Roland S., assignor.)  
 Goodyear Tire & Rubber Company. (See Wolfe, William S., assignor.)  
 Gordon, Edward C., New York, N. Y. Tread for tires. No. 57,040; Feb. 1; v. 283; p. 130.  
 Gordon, George D., Philadelphia, Pa. Rear-end signal device for automobiles. No. 57,834; May 10; v. 286; p. 373.  
 Gordon, Harry C., New York, N. Y. Toy bank. No. 56,919; Jan. 18; v. 282; p. 531.  
 Gordon, Joseph P. (See Nelson, William J., assignor.)  
 Gordon, Peter J., Sag Harbor, assignor to Joseph Fahys & Company, New York, N. Y. Handle for a spoon, fork, or similar article. No. 59,347; Oct. 11.  
 Gore, Arvin J., Denver, Colo. Game-board. No. 57,430; Mar. 29; v. 284; p. 912.  
 Gore, Clarence B., Chicago, Ill. Emblem-button. No. 58,436; July 19; v. 288; p. 569.  
 Gorham Manufacturing Company. (See Moses, Lionel, assignor.)  
 Gosliner, Elkan, San Francisco, Calif. Favor. No. 58,745; Aug. 30; v. 289; p. 961.  
 Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Lamp-globe. No. 57,462; Apr. 5; v. 285; p. 154.  
 Goss, Gladys, Nevada, Mo. Toy doll. No. 59,738; Nov. 22.  
 Gottfried, Jacob J., Brooklyn, N. Y. Knife and fork cleaner. No. 58,024; May 31; v. 286; p. 1013.  
 Gould, Frank D., Oakland, Calif. Automobile-top. No. 57,041; Feb. 1; v. 283; p. 131.  
 Gourley, Richard P., Springfield, and H. P. Partenheimer, assignors to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 57,637; Apr. 26; v. 285; p. 729.  
 Joyette, Joseph A., Providence, R. I. Tower-bell engagement-ring. No. 59,838; Nov. 29.  
 Grady, Richard T., San Diego, Calif. Lantern. No. 56,920; Jan. 18; v. 282; p. 531.  
 Grady, William J., assignor to Faries Manufacturing Co., Decatur, Ill. Arm for a portable lighting-fixture. Nos. 58,083-8; June 7; v. 287; pp. 154-5.  
 Graff, George, New York, N. Y., and W. A. Kennedy, Leonia, N. J., assignors to Graff, Washbourne & Dunn, New York, N. Y. Electric fan and heating device. No. 58,289; July 5; v. 288; p. 164.  
 Graff, George, New York, N. Y., and W. A. Kennedy, Leonia, N. J., assignors to Graff, Washbourne & Dunn. Electric fan and heating device. No. 59,214; Oct. 4.  
 Graff, Washbourne & Dunn. (See Graff, G., and Kennedy, assignors.)  
 Graham Brothers. (See Dunham, George W., assignor.)  
 Graham, Clarence R., Newark, Calif. Stove. No. 57,330; Mar. 15; v. 284; p. 545.  
 Graham, David F., assignor to Graham Roller Bearing Company, Coudersport, Pa. Socket-wrench. No. 57,775; May 3; v. 286; p. 154.  
 Graham, David F., assignor to Graham Roller Bearing Company, Coudersport, Pa. Socket-wrench. No. 59,417; Oct. 18.  
 Graham, James, Detroit, Mich. Tire-tread. No. 57,899; May 17; v. 286; p. 582.  
 Graham Roller Bearing Company. (See Graham, David F., assignor.)  
 Graham, Thornton G., assignor to Sears, Roebuck and Co., Chicago, Ill. Tire-casing. No. 57,224; Mar. 8; v. 284; p. 328.  
 Gramitto, Geovanni R., Rochester, N. Y. Phonograph-cabinet. No. 58,437; July 19; v. 288; p. 569.  
 Grand Council Order of De Molay for Boys. (See Land, Frank S., assignor.)  
 Grand Union Sales Company, The. (See Hasbrouck, George G., assignor.)  
 Granby Phonograph Corporation. (See Howard, Edmond C., assignor.)  
 Grapes, John A., Clarksburg, W. Va. Chair for a rail-joint. No. 57,331; Mar. 15; v. 284; p. 545.  
 Graves, Clarence L., Eland, Wis., assignor of one-half to L. Oleson, St. Paul, Minn. Kitchen-tool. No. 59,076; Sept. 20; v. 290; p. 582.  
 Grayson, John H., Athens, Ohio. Gas-heater. No. 59,839; Nov. 29.  
 Grebe, A. H., & Co. (See Grebe, Alfred H., assignor.)  
 Grebe, Alfred H., assignor to A. H. Grebe & Co., Inc., Richmond Hill, N. Y. Control-handle for regulating apparatus. No. 57,900; May 17; v. 286; p. 582.  
 Gredys, Louis A., Akron, Ohio. Tire-tread. No. 57,332; Mar. 15; v. 284; p. 545.  
 Green, Robert J., St. Louis, Mo. Scarfpin or similar article of jewelry. No. 57,638; Apr. 26; v. 285; p. 729.  
 Green, Warren T., St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky. Footrest for children's vehicles. No. 58,143; June 14; v. 287; p. 355.  
 Green, Warren T., St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky. Wheel-fork for children's vehicles. No. 58,144; June 14; v. 287; p. 355.  
 Green, Warren T., St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky. Steering-head for children's vehicles. No. 58,145; June 14; v. 287; p. 355.  
 Green, Warren T., St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky. Handle for children's vehicles. No. 58,224; June 28; v. 287; p. 730.  
 Green, William H., New York, N. Y., assignor to The Tin Decorating Company of Baltimore, Baltimore, Md. Sifter-top can or similar receptacle. Nos. 59,583-7; Nov. 8.  
 Greene, William J., assignor to The Dixie Rubber Company, Memphis, Tenn. Tire-tread. No. 57,835; May 10; v. 286; p. 373.  
 Greenfield's, E., Sons. (See Masconi, Celestina, assignor.)  
 Greenspan, Marius, Chicago, Ill. Automobile-tire. No. 57,431; Mar. 29; v. 284; p. 912.  
 Greer, William E., assignor to Syracuse Rubber Company, Inc., Syracuse, N. Y. Tire. No. 56,921; Jan. 18; v. 282; p. 531.  
 Gregory, George, Bay City, Mich. Funnel. No. 59,648; Nov. 15.  
 Griffin, Patrick J., Boston, Mass. Cap for air-valves. No. 57,639; Apr. 26; v. 285; p. 729.  
 Griffin, Patrick J., Boston, Mass. Spark-plug. No. 58,438; July 19; v. 288; p. 569.  
 Grinnell, Brayton C., Seattle, Wash. Glove. No. 58,313; July 12; v. 288; p. 360.  
 Gross, Angus R., Baltimore, Md. Parking-light for automobiles. No. 57,640; Apr. 26; v. 285; p. 729.  
 Gross, Angus R., Baltimore, Md. Cowl-light for automobiles, &c. Nos. 59,212-13; Oct. 4.  
 Grossman's, J., Sons. (See Schwenck, Frederick W., assignor.)  
 Grossman, Mollie L., New York, N. Y. Holder for neckties. No. 56,870; Jan. 4; v. 282; p. 162.  
 Groves, J. Willard, assignor to The Lotus Cut Glass Co., Barnesville, Ohio. Surface ornamentation for a glass goblet or similar article. No. 59,077; Sept. 20; v. 290; p. 582.  
 Grow, George, Boston, Mass. Tread for an automobile-tire. No. 57,836; May 10; v. 286; p. 373.  
 Grow, George, assignor to George Grow Tire Company, Boston, Mass. Tire for motor-vehicles. No. 59,418; Oct. 18.  
 Grow, George, Tire Company. (See Grow, George, assignor.)  
 Grubb, George W., New Philadelphia, Ohio. Rubber heel. No. 57,225; Mar. 8; v. 284; p. 328.  
 Gruelle, John B., Norwalk, Conn. Toy animal. No. 58,314; July 12; v. 288; p. 360.  
 Gruelle, John B., Norwalk, Conn. Toy animal. No. 59,553; Nov. 1.  
 Gruen, D., Sons & Company, The. (See Gruen, Frederick G., assignor.)  
 Gruen, Frederick G., assignor to The D. Gruen Sons & Company, Cincinnati, O. Wristband-clasp. No. 57,641; Apr. 26; v. 285; p. 730.  
 Gruen, Frederick G., assignor to The D. Gruen Sons & Company, Cincinnati, Ohio. Wrist-watch. Nos. 59,739-40; Nov. 22.  
 Gruen, Frederick G., assignor to The D. Gruen Sons & Company, Cincinnati, Ohio. Watch-bow. No. 59,741; Nov. 22.  
 Gudcast, Christian H., Richmond, Hill, N. Y. Corner member and leg. No. 58,225; June 28; v. 287; p. 730.  
 Gudeman, Leo, New York, N. Y. Fluid-receiving receptacle. Nos. 58,290-1; July 5; v. 288; p. 164.  
 Guinzburg, George K., assignor to I. B. Kleiwert Rubber Company, New York, N. Y. Garment-protector. No. 57,179; Feb. 22; v. 283; p. 722.



- Guinzburg, George K., New York, N. Y., assignor to I. B. Kleinert Rubber Company. Bathing-cap. No. 57,642; Apr. 26; v. 285; p. 730.
- Guinzburg, Victor, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Garment-shield. No. 56,967; Jan. 25; v. 282; p. 685.
- Gulick, Edward J., assignor to C. G. Conn. Ltd., Elkhart, Ind. Valve-casing for a horn. No. 58,226; June 28; v. 287; p. 730.
- Gulick, Edward J., assignor to C. G. Conn. Ltd., Elkhart, Ind. Drum-hoop. Nos. 58,746-7; Aug. 30; v. 289; p. 961.
- Gulick, Laurence S., Philadelphia, Pa. Rack. No. 58,089; June 7; v. 287; p. 155.
- Gullborg, Arthur V., Chicago, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricator-nipple. No. 59,889; Dec. 6.
- Gunn, Lillian Z., Chicago, Ill. Pin-holder. No. 59,588; Nov. 8.
- Gunnoe, Berta B., Beckley, W. Va. Brooch or the like. No. 59,564; Aug. 2; v. 289; p. 131.
- Gurnett, Arthur R., Toronto, Ontario, Canada. Fruit-jar opener. No. 58,672; Aug. 9; v. 289; p. 370.
- Guy Auto Hub Lock Company. (See Guy, Raymond M., assignor.)
- Guy, Raymond M., assignor to Guy Auto Hub Lock Company, Winfield, Kans. Automobile-wheel-hub cap. No. 57,643; Apr. 26; v. 285; p. 730.
- Guymon, Harry J., Springfield, Ill. Car-check holder. No. 58,227; June 28; v. 287; p. 730.
- H. & H. Leak Proof Fitting Co., The. (See Humphrey, William H., assignor.)
- Haag, William C., assignor to The Kimball System, Inc., Lowell, Mass. Sign. No. 57,076; Feb. 8; v. 283; p. 323.
- Haase, Leo G., Pasadena, Calif. Double bench. No. 57,644; Apr. 26; v. 285; p. 730.
- Haddon's, James, Sons. (See Dills, Henry S., assignor.)
- Hadley, Charles O. (See Davis, John H., assignor.)
- Hadly, Charles O. (See Davis, John H., assignor.)
- Hagar, Abner A. (See Allen, E. G., and Hagar.)
- Hake, Anna, administratrix. (See Hake, George H.)
- Hake, George H., deceased; A. Hake, administratrix, St. Louis, Mo. Hairpin. No. 57,645; Apr. 26; v. 285; p. 730.
- Haladey, Albert and J. Wröbel, Minneapolis, Minn. Coffin. No. 60,092; Dec. 27.
- Hall, George L., Newark, N. J. Screwdriver. No. 59,742; Nov. 22.
- Hall, George L., Newark, N. J. Spark-intensifier. No. 59,743; Nov. 22.
- Hall, Melvin R., Columbus, Ohio. Font of type. No. 57,522; Apr. 12; v. 285; p. 342.
- Hall, Robert E., Jr., Tifton, Ga. Coupon. No. 59,890; Dec. 6.
- Halladay, Lewis P., Decatur, Ill. Automobile bumper-bar. No. 58,565; Aug. 2; v. 289; p. 131.
- Halloran, John J., Daly City, Calif. Radiator-cap. No. 58,292; July 5; v. 288; p. 164.
- Halsey, Blanche, Milton Center, Ohio. Statuette. No. 59,891; Dec. 6.
- Ham Boiler Corporation. (See Adelman, Hans, assignor.)
- Hamill, Frae C., Los Angeles, Calif. Doll. No. 58,315; July 12; v. 288; p. 361.
- Hamill, Frae C., Los Angeles, Calif. Brownie doll. No. 59,215; Oct. 4.
- Hamilton, Edward E., Westfield, Mass. Bow-holder. No. 59,471; Oct. 25.
- Hamilton, Maude, Seattle, Wash. Boudoir-receptacle. No. 57,333; Mar. 15; v. 284; p. 545.
- Hamlin, Louis R., assignor to The Globe Stove & Range Co., Kokomo, Ind. Electric plate. No. 59,078; Sept. 20; v. 290; p. 582.
- Hammond, Myron B., Bridgeport, Conn. Garter. No. 56,969; Jan. 25; v. 282; p. 686.
- Hammond, William P. (See Hebig, Henry C., assignor.)
- Hammond, William P., Maplewood, N. J. Combined mirror and parking-light. No. 58,228; June 28; v. 287; p. 730.
- Hammond, William P., Passaic, N. J. Combination automobile tail-light and direction-indicator. No. 57,523; Apr. 12; v. 285; p. 342.
- Hancock, Arnold F., Stoke-upon-Trent, England, assignor to Edward B. Dickinson, Inc., New York, N. Y. Plate or similar article. No. 57,646; Apr. 26; v. 285; p. 730.
- Hancock, John W., Denver, Colo. Face of a ceiling electric-light reflector. No. 59,892; Dec. 6.
- Hand, Jay A. (See Kuhn, F. and Hand.)
- Hands, Herbert J., Dallas, Tex. Automobile-lens. No. 58,146; June 14; v. 287; p. 356.
- Handel Company, The. (See Handel, William F., assignor.)
- Handel, William F., Meriden, Conn., assignor to The Handel Company. Shade for lighting-fixtures. No. 58,922; Jan. 18; v. 282; p. 532.
- Hanford, Helen, Downsville, N. Y. Meat-pounder and bone-cutter. No. 57,334; Mar. 15; v. 284; p. 545.
- Hannafoe, Pearl B., Los Angeles, Calif. Child's blouse. No. 59,005; Sept. 13; v. 290; p. 381.
- Hannibal Rubber Company. (See Breitenstein, Arthur L., assignor.)
- Hansen, John M., Cleveland, Ohio. Combined lamp and clock stand. No. 57,226; Mar. 8; v. 284; p. 328.
- Harley-Davidson Motor Co. (See Harley, William S., assignor.)
- Harley, William S., assignor to Harley-Davidson Motor Co., Milwaukee, Wis. Motorcycle-side-car body. No. 57,335; Mar. 15; v. 284; p. 545.
- Harmstone, John H., Attleboro, Mass., assignor to Fessenden and Company, Inc., Providence, R. I. Handle of a spoon, fork, or similar article. No. 58,479; July 26; v. 288; p. 772.
- Harold, Walter F., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster-wheel. No. 59,746; Nov. 22.
- Harper, Edward F., Philadelphia, Pa. Phonograph-cabinet. No. 58,748; Aug. 30; v. 289; p. 962.
- Harrington, John W., Houston, Tex. Powder-box. No. 58,905; Sept. 6; v. 290; p. 149.
- Harrington, William H., assignor to The Arrow Electric Company, Hartford, Conn. Attachment plug or connector. No. 59,840; Nov. 29.
- Harris, Archer H., Barberton, assignor to The Cleveland Rubber Corporation Company, Cleveland, Ohio. Tire-casing. No. 57,336; Mar. 15; v. 284; p. 546.
- Harris, Blaine H., assignor to Brown & Bigelow, St. Paul, Minn. Toy paper aeroplane. No. 57,647; Apr. 26; v. 285; p. 731.
- Harris, Ruth E., and R. L. Chance, San Francisco, Calif. Salt and pepper basket. No. 58,229; June 28; v. 287; p. 730.
- Harrison Fixture Works. (See Baldinger, Robert J., assignor.)
- Harrison, Ward, Cleveland, Ohio, assignor to General Electric Company. Lighting-globe. No. 57,463; Apr. 5; v. 285; p. 154.
- Hart & Company, The. (See Mason, Joseph W., assignor.)
- Hart, Charles J. (See English, A. J., and Hart.)
- Hartenheim, Max, assignor to Standard Chemical Company, Pittsburgh, Pa. Woven-glass separator for batteries. No. 56,923; Jan. 18; v. 282; p. 532.
- Hartman, Louis H., assignor of one-half to C. A. Copeland, Pittsburgh, Pa. Pack of game-cards. No. 58,749; Aug. 30; v. 289; p. 962.
- Hartmann, Powl, Brooklyn, assignor to C. L. Eidlitz Co., New York, N. Y. Electrical receptacle for ceiling-boxes. No. 59,216; Oct. 4.
- Hartnett, Joseph P., Rockaway Beach, N. Y., assignor to Cartier, Inc. Article of manufacture. Nos. 57,969-72; May 24; v. 286; p. 799.
- Haupt, Harry, Elmsford, assignor to Kimpton, Haupt & Co., New York, N. Y. Pad-calendar holder. No. 57,227; Mar. 8; v. 284; p. 329.
- Harvey, Louis B., Stockton, Calif., assignor to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Disk wheel. No. 57,776; May 3; v. 286; p. 154.
- Harvey, Louis B., Stockton, Calif., assignor to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Disk wheel. No. 57,973; May 24; v. 286; p. 800.
- Harvey Rim & Wheel Company. (See Harvey, Louis B., assignor.)
- Harvey, Sidney M., assignor to Electric Welding Machine Company, Detroit, Mich. Electric-welder cabinet. No. 58,230; June 28; v. 287; p. 731.
- Harwi, Warren A., Atchison, Kans. Hand-washboard. No. 59,079; Sept. 20; v. 290; p. 582.
- Hasbrouck, George G., assignor to The Grand Union Sales Company, Inc., New York, N. Y. Sewing-machine-cover case. No. 59,841; Nov. 29.
- Haseton, Marjorie S., Washington, D. C. Body of vehicle-lamps. No. 57,974; May 24; v. 286; p. 800.
- Haun, William C., Indianapolis, Ind. Radiator-cap. No. 58,147; June 14; v. 287; p. 356.
- Haupt, Harry, Elmsford, assignor to Kimpton, Haupt & Co., New York, N. Y. Cover for an inkstand. No. 59,472; Oct. 25.
- Hauser & Weil. (See Hauser, Leopold, assignor.)
- Hauser, Leopold, assignor to Hauser & Weil, New York, N. Y. Buckle. No. 58,480; July 26; v. 288; p. 772.
- Haviland, George, Limoges, France. Dish or similar article. No. 59,217; Oct. 4.
- Haviland, George, Limoges, France. Bowl or similar article. No. 59,218; Oct. 4.
- Haviland, George, Limoges, France. Cup or similar article. No. 59,219; Oct. 4.
- Hawkes, William H., South Nyack, N. Y. Flatiron-holder. No. 58,566; Aug. 2; v. 289; p. 131.
- Hawkins, Frederick L., Mishawaka, Ind. Combined shade and curtain-pole bracket. No. 58,481; July 26; v. 288; p. 772.
- Haworth-Booth, Marie O., London, England. Bottle or container. No. 58,090; June 7; v. 287; p. 155.
- Haworth & Dewhurst. (See Haworth, Riddle D., assignor.)
- Haworth, Riddle D., assignor to Haworth & Dewhurst, Limited, Pittsburgh, Pa. Flying toy. No. 59,419; Oct. 18.
- Haws, Alpheus G., Berkeley, Calif. Sanitary drinking-fountain. No. 59,473; Oct. 25.
- Hayes, John E. R., et al., executors. (See Roberts, Fred H.)
- Haynes, William J., Jr., Kansas City, Mo. Furnace. No. 59,220; Oct. 4.



*Alphabetical list of patentees of designs—Continued.*

- Haynes, William J., Jr., assignor to National Wood Renovating Company, Kansas City, Mo. Vacuum-cleaner for erasers. No. 60,093; Dec. 27.
- Hazelton, Carl J., Worcester, Mass. Collet for a hose-supporter. No. 59,221; Oct. 4.
- Headley, Frederick H., Northfield, England. Metallic chair, stool, or similar article. Nos. 59,222-3; Oct. 4.
- Heald, Adelaide, Washington, D. C. Combined garter and powder-puff receptacle. No. 58,316; July 12; v. 288; p. 361.
- Heath, Almon, Los Angeles, Calif. Doll. No. 59,893; Dec. 6.
- Heathcote, Edwin C., Brooklyn, N. Y. Emblem, pin, button, or similar article. No. 56,871; Jan. 4; v. 282; p. 162.
- Heathcote, Edwin C., Brooklyn, N. Y. Emblem, pin, button, or similar article. Nos. 59,589-91; Nov. 8.
- Heathcote, Edwin C., Brooklyn, N. Y. Emblem, pin, button, or similar article. Nos. 59,744-5; Nov. 22.
- Hebert, Joseph H., Columbus, Ohio. Cleaning-tool. No. 59,348; Oct. 11.
- Hebestreit, William E. (See Journeaux, J. E., and Hebestreit.)
- Hebig, Henry C., Hempstead, N. Y., assignor to W. P. Hammond, Maplewood, N. J. Kiddie-car. No. 58,750; Aug. 30; v. 289; p. 962.
- Heck, George D., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental-equipment stand. Nos. 59,649-50; Nov. 15.
- Heddon's, James, Sons, Inc. (See Smith, Fillmore M., assignor.)
- Heddon's, James, Sons. (See Stolley, William A., assignor.)
- Heide, Carl H., assignor to Perfecite Manufacturing Company, Seattle, Wash. Suspended light-fixture. Nos. 58,567-8; Aug. 2; v. 289; p. 131.
- Heimerdinger, Leo H., Oak Lane, Pa., assignor to Pioneer Suspender Company. Box. No. 57,337; Mar. 15; v. 284; p. 546.
- Heindl, William C., Rochester, N. Y. Pinwheel. No. 60,094; Dec. 27.
- Heise, Roscoe S., assignor to The Miami Cycle and Manufacturing Company, Middleton, Ohio. Bicycle-pedal. No. 57,901; May 17; v. 286; p. 582.
- Heisey, A. H., & Co. (See Balda, Joseph O., assignor.)
- Heisey, A. H., & Co. (See Heisey, T. Clarence, assignor.)
- Heisey, A. H., & Company. (See Sanford, Andrew J., assignor.)
- Heisey, A. H., & Co. (See Heisey, Thomas C., assignor.)
- Heisey, T. Clarence, assignor to A. H. Heisey & Co., Newark, Ohio. Goblet. No. 59,651; Nov. 15.
- Heisey, Thomas C., assignor to A. H. Heisey & Co., Newark, Ohio. Goblet or similar article. No. 59,474; Oct. 25.
- Heisler, Henry L., Chicago, Ill. Vacuum-jacketed carafe. No. 58,091; June 7; v. 287; p. 156.
- Heizmann, Hugo A., Boston, Mass. Tray or similar article. No. 58,186; June 21; v. 287; p. 548.
- Helin, Vernie R., Chicago, Ill. Combination-tool. No. 58,482; July 26; v. 288; p. 773.
- Heller, L., & Son. (See Heller, Samuel, assignor.)
- Heller, Samuel, assignor to L. Heller & Son Inc., New York, N. Y. Precious, semiprecious, or synthetic stone or an imitation thereof or an article of similar nature. Nos. 58,317-26; July 12; v. 288; pp. 361-3.
- Hendricks, Curtis E., Southport, Ind. Ignition-wire manifold. Nos. 59,080-6; Sept. 20; v. 290; pp. 583-4.
- Hendry, William, Tacoma, Wash. Automobile tail or signal light. No. 57,648; Apr. 26; v. 285; p. 731.
- Henkel, Adolph A., assignor to one-half to H. A. Best, Chicago, Ill. Electric-lighting device. No. 58,092; June 7; v. 287; p. 156.
- Henry Hyman & Co. (See Drufva, John T., assignor.)
- Hensey, James A., Oneonta, N. Y. Coin-collector. No. 57,042; Feb. 1; v. 283; p. 131.
- Hepp, Charles P. (See Downey, E. M., and Hepp.)
- Heppes, Otto A., La Grange, Ill. Shingle-simulating strip. No. 57,126; Feb. 22; v. 283; p. 713.
- Herman, Raymond L., New York, N. Y., assignor to M. S. Bartlett, East Orange, N. J. Toy. No. 58,483; July 26; v. 288; p. 773.
- Hermanson, Ole, Sun Prairie, Wis. Staple-puller. No. 58,569; Aug. 2; v. 289; p. 132.
- Hermanovich, Charles, Chicago, Ill. Automobile-truck body. No. 59,849; Oct. 11.
- Herold, Walter R., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Truck-caster. No. 58,751; Aug. 30; v. 289; p. 962.
- Heroux, Frederick A., Oakland, Calif. Bake-oven. No. 57,432; Mar. 29; v. 284; p. 912.
- Herrin, Charles W., Burkburnett, Tex. Watch-fob. No. 58,327; July 12; v. 288; p. 363.
- Hersey, Elmer F., Boston, Mass. Cigar-lighter. No. 57,837; May 10; v. 286; p. 373.
- Hewlett, Palmer B., Hollister, Calif. Pulsator-valve casing for milking-machines. No. 57,433; Mar. 29; v. 284; p. 912.
- Heymann, Edward I., New York, N. Y. Box-cover. No. 57,902; May 17; v. 286; p. 582.
- Hiatt, James L. (See Drey, L. A., and Hiatt.)
- Hibben, Samuel G., Bloomfield, N. J. Lighting-fixture. No. 59,087; Sept. 20; v. 290; p. 584.
- Hickey, Eugene N., East Rochester, N. Y. Toy. No. 59,894; Dec. 6.
- Higbet, Raymond D., White Plains, N. Y. Toy animal. No. 56,872; Jan. 4; v. 282; p. 162.
- Higley, Martin L. (See Mortensen, A., and Higley.)
- Hilderbrand, Louis P. (See Van Dohlan, Richard, assignor.)
- Hill, Frederick W., Folkestone, England. Sparking-plug electrode. No. 57,127; Feb. 22; v. 283; p. 713.
- Hill, Frederick W., Folkestone, England. Sparking-plug electrode. No. 58,231; June 28; v. 287; p. 731.
- Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Blank for an ophthalmic lens. No. 59,747; Nov. 22.
- Hill, Harry W., assignor to American Optical Company, Southbridge, Mass. Lens-blank. No. 59,842; Nov. 29.
- Hillebrecht, August G., Jr., Jersey City, N. J. Ice-box-door cleat. No. 59,420; Oct. 18.
- Hiller, Joseph L., Mattapoisett, Mass. Hammer-mill beater. No. 56,924; Jan. 18; v. 282; p. 532.
- Hillegardner, Millie W., Brooklyn, N. Y. Pennant. No. 56,970; Jan. 25; v. 282; p. 686.
- Hiliker, Edwin E., East Aurora, N. Y. Oil-stove. Nos. 58,439-40; July 19; v. 288; pp. 569-70.
- Hillman, Ernest C., Los Angeles, Calif. Sun and rain shield. No. 59,350; Oct. 11.
- Hillyer, Haywood H., St. Louis, Mo. Service badge or button. No. 59,475; Oct. 25.
- Hine, William C., Cleveland, Ohio. Pressed-metal wheel. No. 59,351; Oct. 11.
- Hines, William J., Hartford, Conn., assignor to The Fuller Brush Company. Sink-scraper. No. 57,649; Apr. 26; v. 285; p. 731.
- Hines, William J., Hartford, Conn., assignor to The Fuller Brush Company. Tray. No. 57,650; Apr. 26; v. 285; p. 731.
- Hines, William J., Hartford, Conn., assignor to The Fuller Brush Company. Crumbing implement. No. 58,232; June 28; v. 287; p. 731.
- Hinkley, Carl C., Detroit, Mich. Engine-casing. No. 59,843; Nov. 29.
- Hinz, Leo, Perth Amboy, N. J., assignor to one-half to F. Martin, New York, N. Y. Aeroplane-body. No. 58,233; June 28; v. 287; p. 731.
- Hipp, J. C. (See Dalitz, Harry, assignor.)
- Hirsch, Lee, New York, N. Y. Setting for precious stones. No. 56,971; Jan. 25; v. 282; p. 686.
- Hirsch, Louis H., New York, N. Y. Flower-vase. No. 59,224; Oct. 4.
- Hirschy, Herman C., Duluth, Minn. Washing-machine. No. 59,748; Nov. 22.
- Hobe, William W., New York, N. Y. Button. Nos. 58,484-6; July 26; v. 288; pp. 773-4.
- Hochstetter, Frederick W., Dayton, Ohio. Moving-picture machine. No. 59,958; Dec. 13.
- Hoenig, Emil, New York, N. Y. Statuette, sculpture, or article of similar nature. No. 57,651; Apr. 26; v. 285; p. 731.
- Hoenig, Franz, New York, N. Y., assignor to Tobler & Hoenig, Lacc. Nos. 57,464-73; Apr. 5; v. 284; pp. 155-6.
- Hoenig, Franz, assignor to Tobler & Hoenig, New York, N. Y. Embroidery. Nos. 57,474-6; Apr. 5; v. 285; pp. 156-7.
- Hoffman, Edmund, Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. Nos. 58,752-5; Aug. 30; v. 289; p. 963.
- Hoffman, Edmund, Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 58,906; Sept. 6; v. 290; p. 149.
- Hoffman, William J., Atlantic City, N. J. Clock-mount. No. 56,873; Jan. 4; v. 282; p. 162.
- Hofmann, Emil G., Chicago, Ill. Toy sprinkler. No. 57,043; Feb. 1; v. 283; p. 131.
- Hojnowski, Jakob, Nekosia, Wis. Pipe-hanger. No. 57,228; Mar. 8; v. 284; p. 329.
- Hokanson, Andrew S., Seekonk, Mass. Watch-fob. No. 56,874; Jan. 4; v. 282; p. 162.
- Hoke, Jacob E., Jr. (See Holcomb, J. L., and Hoke, Jr.)
- Holcomb, Frank E., assignor to The Williams Foundry & Machine Company, Akron, Ohio. Tire-tread. No. 57,077; Feb. 8; v. 283; p. 323.
- Holcomb, James I., and J. F. Hoke, Jr., Indianapolis, Ind. Vending-cabinet. No. 59,006; Sept. 13; v. 290; p. 381.
- Holderle, Carl L. (See Holderle, Frederick W. and C. L.)
- Holderle, Frederick W. and C. L., Rochester, N. Y. Beverage-dispenser. No. 59,652; Nov. 15.
- Holland, Walter E. (See Davis, E., and Holland.)
- Hollingshead, William B., Mount Vernon, N. Y. Phonograph-cabinet. No. 57,652; Apr. 26; v. 285; p. 731.
- Hollins, Frederick E., Winchester, assignor to Boston Burial Case Co., West Somerville, Mass. Burial-casket. No. 59,225; Oct. 4.
- Hollins, Willis C., and F. P. Arrousez, assignors to Rosenberg & Co., Los Angeles, Calif. Combined fuse and plug receptacle box. No. 57,975; May 24; v. 286; p. 800.
- Hollison, John H., and C. H. Miller, Chicago, Ill. Dental die device. No. 57,044; Feb. 1; v. 283; p. 131.
- Hollister, Dimock W., Philadelphia, Pa., assignor to Harry H. Weinberger, New York, N. Y. Coin or token. No. 60,024; Dec. 20.



- Holly, Frank A., assignor to Bastian Bros. Co., Rochester, N. Y. Rattle. Nos. 58,234-5; June 28; v. 287; p. 731.
- Holmes, Andrew J., Tacoma, Wash. Electric heater. No. 58,487; July 26; v. 288; p. 774.
- Holmes, Joseph D., New York, N. Y. Stand. No. 59,007; Sept. 13; v. 290; p. 382.
- Holmgren, John E., San Francisco, Calif. Lamp. No. 57,045; Feb. 1; v. 283; p. 131.
- Holophane Glass Company. (See Dorey, William A., assignor.)
- Holsberg, George A., San Francisco, Calif. Sunshade and visor for vehicle-windshields. No. 57,653; Apr. 26; v. 285; p. 732.
- Holt, George, assignor to North American Lace Company, Philadelphia, Pa. Lace. No. 59,226; Oct. 4.
- Holtom, Albert O., and J. B. Crockett, New York, N. Y. Radiator for an automobile. No. 58,907; Sept. 6; v. 290; p. 149.
- Holtz, Gustav, Gouldsboro, Pa. Amalgam carrier and pluggers. No. 57,434; Mar. 29; v. 284; p. 912.
- Holz, Bernard, assignor to The Frankelite Co., Cleveland, Ohio. Surface ornamentation for an article of manufacture. No. 58,328; July 12; v. 288; p. 364.
- Holzer, Eugene, assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Doily. No. 59,227; Oct. 4.
- Homel, Benjamin L., Ludington, Mich. Shirt. No. 59,959; Dec. 13.
- Homan, Charles A., St. Louis, Mo. Eastern-star signet. No. 58,875; Jan. 4; v. 282; p. 162.
- Honstetter, Emil. (See Chinsky, H. H., and Honstetter.)
- Hood Rubber Company. (See Fritch, Elue O., assignor.)
- Hood Rubber Company. (See Glidden, A. A., Buell, and Fritch, assignors.)
- Hood Rubber Company. (See Glidden, Alfred A., assignor.)
- Hood Rubber Company. (See Muir, Robert, assignor.)
- Hoodwin, J. W., Company. (See Hoodwin, Joseph W., assignor.)
- Hoodwin, Joseph W., assignor to J. W. Hoodwin Company, Chicago, Ill. Punch-board for vending-machines. No. 59,476; Oct. 25.
- Hoodwin, Joseph W., assignor to J. W. Hoodwin Company, Chicago, Ill. Ice-cream-cone tray. No. 60,025; Dec. 20.
- Hookaylo, Jacob, Newark, N. J. Finger-ring. No. 57,338; Mar. 15; v. 284; p. 546.
- Hooper, Edward J., Stoughton, Mass., assignor to Foster Rubber Company, Kennebunk, Me. Rubber heel. No. 57,339; Mar. 15; v. 284; p. 546.
- Hoover, Clair G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. No. 59,653; Nov. 15.
- Hopkins, James H., assignor to J. McComas and C. W. Goodwin, Pomona, Calif. Vaporizer for internal-combustion engines. No. 59,592; Nov. 8.
- Horn & Brannen Manufacturing Company, The. (See Frerichs, Frederick A., assignor.)
- Horn, William, Oneonta, assignor to Quality Silk Mills, Inc., New York, N. Y. Ornamentation for a glove or similar article. No. 59,477; Oct. 25.
- Hornburg, Charles A., Waco, Tex. Tire-placer. No. 57,654; Apr. 26; v. 285; p. 732.
- Hornstein, William M., Washington, D. C. Sign. No. 59,654; Nov. 15.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. Nos. 58,329-83; July 12; v. 288; pp. 364-77.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Cap for a talcum-powder box. No. 58,417; July 12; v. 288; p. 384.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 58,418; July 12; v. 288; p. 384.
- Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. Nos. 59,088-118; Sept. 20; v. 290; pp. 584-91.
- Hotchkiss, John, Sebring, Ohio. Automobile-tire. No. 59,655; Nov. 15.
- Hotz, John F., Newton, Mass. Traffic-signal. No. 58,673; Aug. 9; v. 289; p. 370.
- Houck, William A., Reading, Pa. Cop-mounting bracket for knitting-machines. No. 57,435; Mar. 29; v. 284; p. 913.
- Hough, Ruth F., South Pasadena, Calif. Romper. No. 59,844; Nov. 29.
- House Dress Apron Co. (See Smith, Theodore B., assignor.)
- House, Henry A., Jr., assignor to Wire Wheel Corporation of America, Buffalo, N. Y. Hub-shell for wire wheels. No. 59,352; Oct. 11.
- Howard, Edmond C., Norfolk, Va. Phonograph-cabinet. Nos. 57,903-8; May 17; v. 286; pp. 582-3.
- Howard, Edmond C., Norfolk, Va., assignor to Granby Phonograph Corporation. Phonograph-cabinet. Nos. 59,749-51; Nov. 22.
- Howard, Edmond C., Norfolk, Va., assignor to Granby Phonograph Corporation. Sound-conduit for phonographs. No. 59,752; Nov. 22.
- Howard, Edmond C., Norfolk, Va., assignor to Granby Phonograph Corporation. Sound-box for phonographs. No. 59,960; Dec. 13.
- Howard, Ira T., Canton, Ohio. Planing-machine frame. No. 59,421; Oct. 18.
- Howard, John H., et al., trustees. (See Howard, John H., assignor.)
- Howard, John H., Minneapolis, Minn., assignor to E. G. Stegner, J. S. Ingalls, and J. H. Howard, trustees. Lens for headlights. No. 57,909; May 17; v. 286; p. 583.
- Howard, John M., Media, Pa., and C. J. Allen, Moorestown, N. J. Tractor transmission-housing. No. 58,236; June 28; v. 287; p. 732.
- Howard, Margaret A., Washington, D. C. Badge, pin, emblem, charm, or similar article. No. 57,046; Feb. 1; v. 283; p. 131.
- Howe, Joseph, Jr., Kansas City, Mo. Lamp. No. 59,845; Nov. 29.
- Howe Rubber Corporation. (See Tenney, John, Jr., assignor.)
- Howell, Frank B., Buffalo, N. Y. Heating apparatus. Nos. 60,095-6; Dec. 27.
- Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Plate for lighting-fixtures. No. 58,488; July 26; v. 288; p. 774.
- Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Ornament for lighting-fixtures. No. 59,478; Oct. 25.
- Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Arm for lighting-fixtures. No. 60,026; Dec. 20.
- Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Cut-out ring. No. 60,027; Dec. 20.
- Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Candle-cup. No. 60,028; Dec. 20.
- Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Deep-body shell. No. 60,029; Dec. 20.
- Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Plate for lighting-fixtures. No. 60,030; Dec. 20.
- Howell, Ivy D., Ballston Spa, N. Y. Direction-indicator. No. 57,910; May 17; v. 286; p. 583.
- Howell, James H., Mill Valley, Calif. Child's vehicle. No. 57,229; Mar. 8; v. 284; p. 329.
- Howell, Robinson H., Hammondport, N. Y. Toy air-scout. No. 57,128; Feb. 22; v. 283; p. 714.
- Hubbell, Harvey, Bridgeport, Conn. Attachment-plug receptacle. No. 57,655; Apr. 26; v. 285; p. 732.
- Hucal, Wasyl, Chicago, Ill. Combined lamp and talking-machine casing. No. 57,911; May 17; v. 286; p. 584.
- Hudson, Clarence D., Los Angeles, Calif. Paper-weight. No. 59,656; Nov. 15.
- Hudson, Phineas C., assignor to Archer Tire & Rubber Company, Minneapolis, Minn. Tire-casing. No. 57,340; Mar. 15; v. 284; p. 546.
- Hughes, Roland T., Oak Park, assignor to Moran & Macnair Inc., Chicago, Ill. Lighting-fixture. Nos. 59,593-4; Nov. 8.
- Hudson, William F., Philadelphia, Pa. Crank-case-repair arm. No. 57,047; Feb. 1; v. 283; p. 132.
- Hultman, Charles G., Providence, R. I. Lingerie-clasp. No. 58,025; May 31; v. 286; p. 1013.
- Humbird, Dorothy B., Spokane, Wash. Bedcover-retainer. No. 59,961; Dec. 13.
- Hummel, John W. (See Bozzelle, W. V., and Hummel.)
- Hummert, Robert H., Dayton, Ohio. Radiator-cap. No. 58,908; Sept. 6; v. 290; p. 150.
- Humphrey, Alfred H., New York, N. Y. Fireback for gas-stoves. No. 57,129; Feb. 22; v. 283; p. 714.
- Humphrey, Alfred H., New York, N. Y. Radiant for gas-stoves. No. 57,230; Mar. 8; v. 284; p. 329.
- Humphrey, Alfred H., New York, N. Y. Gas-stove. Nos. 57,341-2; Mar. 15; v. 284; p. 547.
- Humphrey, Alfred H., New York, N. Y. Gas-stove. No. 57,656; Apr. 26; v. 285; p. 732.
- Humphrey, Alfred H., New York, N. Y., assignor to General Gas Light Company, Kalamazoo, Mich. Gas-stove. Nos. 59,962-3; Dec. 13.
- Humphrey, Alfred H., New York, N. Y. Radiant for gas-stoves. No. 59,964; Dec. 13.
- Humphrey, Clen S., Brooklyn, N. Y. Powder-container or similar receptacle. Nos. 57,524-5; Apr. 12; v. 285; p. 342.
- Humphrey, Clen S., Brooklyn, N. Y. Sifter-top for a powder-can or similar receptacle. No. 58,026; May 31; v. 286; p. 1013.
- Humphrey, Clen S., Brooklyn, N. Y. Powder-container. No. 58,570; Aug. 2; v. 289; p. 132.
- Humphrey, Clen S., Brooklyn, N. Y. Powder-container or similar receptacle. Nos. 59,479-90; Oct. 25.
- Humphrey, Clen S., Brooklyn, N. Y. Powder-container or similar receptacle. No. 59,595; Nov. 8.
- Humphrey, Ira V., Highland Park, Pa. Tire. No. 58,187; June 21; v. 287; p. 548.
- Humphrey, William H., assignor to The H. & H. Leak Proof Fitting Co., Youngstown, Ohio. Pipe-union nipple. Nos. 56,925-7; Jan. 18; v. 282; p. 532.
- Humphrey, William H., assignor to The H. & H. Leak Proof Fitting Co., Youngstown, Ohio. Pipe-union nipple. No. 57,343; Mar. 15; v. 284; p. 547.



## Alphabetical list of patentees of designs—Continued.

- Hunt, Byron R., Indianapolis, Ind. Caddie-bag. No. 57,526; Apr. 12; v. 285; p. 343.
- Hurt, Henry P., assignor to W. W. Deupree, Memphis, Tenn. Finger-ring, bar-pin, or similar article. No. 58,972; Jan. 25; v. 282; p. 686.
- Hurt, Spencer M., Ridley Park, Pa., assignor to The My-nol Chemical Company. Receptacle for dentists' use. No. 59,965; Dec. 13.
- Huschler, Fritz, Jersey Heights, N. J. Phonograph tone-arm. No. 57,344; Mar. 15; v. 284; p. 547.
- Hutchens, Ralph W. (See Gillette, R. B., and Hutchens.)
- Hutchens, Ralph W., Eau Claire, Wis. Tire-tread or similar article. No. 58,756; Aug. 30; v. 289; p. 964.
- Hutchison, Edna A., Independence, Mo. Doll. No. 59,491; Oct. 25.
- Hyatt, Frank S., Brooklyn, N. Y. Cap for powder-container tops. No. 58,571; Aug. 2; v. 289; p. 132.
- Hyatt, Frank S., Brooklyn, N. Y. Powder-container top. No. 58,909; Sept. 6; v. 290; p. 150.
- Hyatt, Frank S., assignor to Brass Goods Mfg. Co., Brooklyn, N. Y. Slip-cap for powder-container tops. Nos. 59,596-7; Nov. 8.
- Hygrade Lighting Fixture Corporation. (See Cohn, Harry, assignor.)
- Icy-Hot Bottle Company, The. (See Altenberg, George P., assignor.)
- Ideal Tire and Rubber Company, The. (See Nahm, Emil H., assignor.)
- Illinois Specialty Manufacturing Company. (See Belt, William M., assignor.)
- Imperial Counsel of the Universe, Princes of Mosera. (See Miller, Thornton F., assignor.)
- Indera Mills, The. (See Siewers, Walter L., assignor.)
- India Tire and Rubber Company. (See Lerch, William G., assignor.)
- Inflexible Co., The. (See Schwarber, Henry, assignor.)
- Ingalls, James S., *et al.*, trustees. (See Howard, John H., assignor.)
- Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure-cap for a jar or similar article. Nos. 57,048-54; Feb. 1; v. 283; pp. 132-3.
- Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Jar or similar article. No. 59,846; Nov. 29.
- Ingram, Harry. (See Ingram, Alfred and H.)
- Ingrams Incorporated. (See Ingram, Alfred and H., assignors.)
- Insel Company, The. (See Davis, Joseph, assignor.)
- International Association of Civitan Clubs. (See Shropshire, Courtney W., assignor.)
- International Devices Company. (See Maloney, Paul, assignor.)
- International India Rubber Corporation. (See Odell, George W., assignor.)
- International Silver Company. (See Kintz, Alfred G., assignor.)
- International Silver Company. (See Lashar, Thomas B., assignor.)
- International Silver Co. (See Prétat, Frederick E., assignor.)
- International Silver Co. (See Strohacker, Gustave, assignor.)
- Iowa Cord Tire Company. (See Klopfenstine, Clarence B., assignor.)
- Iredell, Robert, assignor to The General Tire and Rubber Company, Akron, Ohio. Shoe-heel. No. 59,753; Nov. 22.
- Irving Drew Company, The. (See Lloyd, Thomas C., assignor.)
- Isaacs, Dorothy H., and L. B. Smith, Spirit Lake, Idaho. Doll. No. 59,847; Nov. 29.
- Israel, Sidney M., Richmond Hill, N. Y. Ceiling-plate for electric-light fixtures. Nos. 56,876-7; Jan. 4; v. 282; p. 163.
- Israel, Sidney M., Richmond Hill, N. Y. Combination lamp-stand and smoking set. Nos. 58,027-8; May 31; v. 286; p. 1013.
- Israel, Sidney M., Richmond Hill, N. Y. Sewer's electric-light stand. No. 58,757; Aug. 30; v. 289; p. 964.
- Ittig, George P. (See Bourgeois, R. J., and Ittig.)
- Juculano, Frank, New York, N. Y. Phonograph. No. 58,148; June 14; v. 287; p. 356.
- Jackson, Samuel S., Columbus, Ohio. Overcoat, ulster, or a sport sack-coat. No. 58,572; Aug. 2; v. 289; p. 132.
- Jackson, William A., Binghamton, N. Y. Temple-gage. No. 58,910; Sept. 6; v. 290; p. 150.
- Jacob, Emanuel, assignor to H. Jacob & Sons, Inc., New York, N. Y. Ticket for net goods or veillings. No. 57,838; May 10; v. 286; p. 373.
- Jacob, H., & Sons. (See Jacob, Emanuel, assignor.)
- Jacobs, David J., Chicago, Ill. Display-stand. No. 59,554; Nov. 1.
- Jacobs, Jacob A., assignor to Eisenstadt Manufacturing Company, St. Louis, Mo. Ring. No. 56,878; Jan. 4; v. 282; p. 163.
- Jacobs, Jacob A., assignor to Eisenstadt Manufacturing Company, St. Louis, Mo. Finger-ring. No. 57,657; Apr. 26; v. 285; p. 732.
- Jacobsen, Veder, Chicago, Ill. Flag, pennant, sign, emblem, badge, or article of similar nature. Nos. 57,345-7; Mar. 15; v. 284; p. 647.
- Jacobsen, Veder, Chicago, Ill. Emblem. No. 58,441; July 19; v. 288; p. 570.
- Jacobson, Max, New York, N. Y. Astral board. No. 59,657; Nov. 15.
- Jacoby, Charles N. (See Richardson, D., and Jacoby.)
- Jacovini, Pietro, Philadelphia, Pa. Newspaper and parcel holder. No. 59,492; Oct. 25.
- Jaße, Samuel, Richmond, Ind. Radiator-cap. No. 57,658; Apr. 26; v. 285; p. 732.
- James, Sidney, Niagara Falls, N. Y., assignor to Simeon L. and George H. Rogers Company. Handle of a spoon, a knife, or a fork. Nos. 59,353-4; Oct. 11.
- James, W. Benson, *et al.*, trustees. (See Laws, Arthur J., assignor.)
- Jamrowicz, Joseph F., Detroit, Mich. Tire-tread. No. 59,008; Sept. 13; v. 290; p. 382.
- Januchowsky, John, St. Louis, Mo. Handle-cover for boxes. No. 57,477; Apr. 5; v. 285; p. 157.
- Jaques, Fernando O., Jr., Providence, assignor to The Central Tool Company, Cranston, R. I. Handle for a micrometer-caliper. No. 58,489; July 26; v. 288; p. 774.
- Jasus, John, Catlin, Ill. Nail. No. 58,442; July 19; v. 288; p. 570.
- Jeffries, Anna S., Clearmont, Wyo. Cap. No. 58,384; July 12; v. 288; p. 378.
- Jenkins, Florence De G., Philadelphia, Pa. Game-board. No. 58,093; June 7; v. 287; p. 156.
- Jennings Brothers Manufacturing Company, The. (See Mosman, Charles S., assignor.)
- Jensen, Julian B., Alameda, Calif. Rotary-pump casing. No. 58,188; June 21; v. 287; p. 548.
- Jergens, Andrew Company, The. (See Resor, Stanley, assignor.)
- Jesse Dean, Incorporated. (See Martin, Adolf, assignor.)
- Jessi, Oswald. (See Frost, K., and Jessi.)
- Jewell, Edward J., Chicago, Ill. Statue. No. 58,911; Sept. 6; v. 290; p. 150.
- Joassart, Gustave, Liege, Belgium. Motorcycle-frame. No. 57,976; May 24; v. 286; p. 800.
- Joha, Elmer N., assignor to Reliable Knitting Works, Milwaukee, Wis. Knitted cap. No. 58,573; Aug. 2; v. 289; p. 132.
- Johanknecht, Frederick A., Birmingham, Ala. Vehicle. No. 58,490; July 26; v. 288; p. 775.
- Johanson, Emil G. (See Arndt, George A., assignor.)
- Johanson, Emil G., Chicago, Ill. Automobile-reflector. No. 57,055; Feb. 1; v. 283; p. 133.
- Johanson, Emil G., Chicago, Ill. Automobile-reflector. No. 57,912; May 17; v. 286; p. 584.
- Johnson, Alfred, assignor to Alfred Johnson Skate Co., Chicago, Ill. Cup, trophy, or article of similar nature. No. 57,130; Feb. 22; v. 283; p. 714.
- Johnson, Alfred, Skate Co. (See Johnson, Alfred, assignor.)
- Johnson, Arvid P. (See Kjellstrom, David E., assignor.)
- Johnson, August G., Monessen, Pa. Wire fence. No. 59,119; Sept. 20; v. 290; p. 592.
- Johnson, Bror, Glassport, assignor to United States Glass Company, Pittsburgh, Pa. Glass vase or similar article. No. 58,759; Aug. 30; v. 289; p. 964.
- Johnson, Charles E., assignor of one-third to W. A. Johnson and one-third to S. Bitterman, Denver, Colo. Carburetor body or casing. No. 57,659; Apr. 26; v. 285; p. 733.
- Johnson, Charles S., Toledo, Ohio. Tread-belt link. No. 59,422; Oct. 18.
- Johnson, Frances, Chicago, Ill. Doll. No. 58,385; July 12; v. 288; p. 378.
- Johnson, John T., Akron, assignor to The Portage Rubber Company, Barberton, Ohio. Tire. No. 57,131; Feb. 22; v. 283; p. 714.
- Johnson, Robert W., Chicago, Ill. Collar-link. No. 58,237; June 28; v. 287; p. 732.
- Johnson, William A., *et al.* (See Johnson, Charles E., assignor.)
- Johnson, Winnifred H., Los Angeles, Calif. House-dress. No. 57,231; Mar. 8; v. 284; p. 329.
- Johnston, Joseph B. (See Peat, S. H., and Johnston.)
- Johnston, Perry B., Duncan, Okla. Ring, brooch, or pin. No. 58,386; July 12; v. 288; p. 378.
- Johnston, William R., assignor to Wm. R. Johnston Mfg. Co., Chicago, Ill. Curtain-window for vehicles. Nos. 58,760-3; Aug. 30; v. 289; p. 965.
- Johnston, Wm. R., Mfg. Co. (See Johnston, William R., assignor.)
- Johnstone, Claude, St. Louis, Mo. Doll. No. 60,031; Dec. 20.
- Johnstone, Russell R., Wauwatosa, Wis. Advertising-sign. No. 57,348; Mar. 15; v. 284; p. 548.
- Jones, Earl W. (See Jones, Lee B. and E. W., and Battin.)
- Jones, Everett R., Detroit, Mich. Automobile-bumper. No. 57,777; May 3; v. 286; p. 154.
- Jones, George A., Palmetto, Fla. Tool-chest. No. 57,436; Mar. 29; v. 284; p. 913.
- Jones, Harry W., assignor to American Can Company, New York, N. Y. Sifter top. Nos. 57,132-4; Feb. 22; v. 283; p. 714.
- Jones, John J., assignor of one-half to R. J. Kideney, Buffalo, N. Y. Bath-tub. No. 56,879; Jan. 4; v. 282; p. 163.



- Jones, Joseph E., assignor to Lincoln Fiscal Agency, St. Louis, Mo. Trust certificate. Nos. 57,232-3; Mar. 8; v. 284; pp. 329-30.
- Jones, Leander C., Battle Creek, Mich. Toy gas-stove. No. 60,032; Dec. 20.
- Jones, Lee B. and E. W., and R. G. Battin, assignors to Sunbeam Electric Manufacturing Company, Evansville, Ind. Power plant. No. 59,228; Oct. 4.
- Joseph, Henry, Grayling, Mich., assignor to Joseph Sanitary Products Company, Milwaukee, Wis. Rubber mat and cover. No. 59,966; Dec. 13.
- Joseph Sanitary Products Company. (See Joseph, Henry, assignor.)
- Journeaux, James E., and W. E. Hebestreit, Detroit, Mich. Signal-exhibitor casing. Nos. 58,238-40; June 28; v. 287; p. 732.
- Joynes, Annie L., Savannah, Ga. Combined bed and settee. No. 58,387; July 12; v. 288; p. 378.
- Judd, H. L., Company. (See Dudley, Clifford C., assignor.)
- Juenemann, Henry J., Washington, D. C. Badge, watch-charm, or similar article of jewelry. No. 57,349; Mar. 15; v. 284; p. 548.
- Jurek, Martin, Dallas, Tex. Shaving-cabinet. No. 59,967; Dec. 13.
- Jurgens, William C., Oakland, Calif. Serving-tray warmer. No. 58,029; May 31; v. 286; p. 1014.
- Justrite Manufacturing Company. (See Frisbie, William J., assignor.)
- Juthe, John C., Allston, Mass. Child's wheel toy. No. 59,598; Nov. 8.
- Kaesela, Marguerite, Provincetown, Mass. Rag doll. No. 60,097; Dec. 27.
- Kahn, Bertrand B., assignor to The Estate Stove Company, Hamilton, Ohio. Stove. No. 59,895; Dec. 6.
- Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Bracket for lighting-fixtures. No. 56,881; Jan. 4; v. 282; p. 163.
- Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Socket-cover. Nos. 60,033-4; Dec. 20.
- Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Arm-husk for lighting-fixtures. Nos. 60,035-6; Dec. 20.
- Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Knob for an arm-husk for lighting-fixtures. No. 60,037; Dec. 20.
- Kahns, Walter R., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Socket cover. No. 60,038; Dec. 20.
- Kaitting, Herbert A., Galt, Ontario, Canada. Bracket for windshield-blinds. No. 57,977; May 24; v. 286; p. 800.
- Kaitting, Herbert A., Galt, Ontario, Canada. Blind-holding windshield-clip. No. 59,355; Oct. 11.
- Kalenborn, Arion, San Francisco, Calif. Cabinet. No. 59,357; Oct. 11.
- Kallander, Gustaf J., Seattle, Wash. Teetering toy. No. 59,356; Oct. 11.
- Kammer, August F., South Orange, N. J. Bottle. No. 60,098; Dec. 27.
- Kanev, Carl, Philadelphia, Pa. Gear-cover. No. 59,358; Oct. 11.
- Kapotkin, Herman, New York, N. Y. Soft-collar clasp. No. 59,009; Sept. 13; v. 290; p. 382.
- Karger, David, Milwaukee, Wis. Knitted cap. No. 58,758; Aug. 30; v. 289; p. 964.
- Karp, Henry J., Faribault, Minn. Clock-stand. No. 59,896; Dec. 6.
- Katz, Clara, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 57,234-6; Mar. 8; v. 284; p. 330.
- Katz, Clara, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 58,913; Sept. 6; v. 290; p. 150.
- Katzenstein, Leon L., Worcester, Mass. Panel for a lamp-shade. No. 59,599; Nov. 8.
- Kassel, Frank T., Kansas City, Kans. Jewelry—namely, a charm, pin, cuff-button, or article of similar nature. Nos. 60,039-40; Dec. 20.
- Kauder, Irving J., Brooklyn, N. Y. Vamp of a shoe. No. 59,658; Nov. 15.
- Kaufmann, Charles F. L. and W. L., Santa Ana, Calif. Spot-light handle-stem. No. 57,056; Feb. 1; v. 283; p. 134.
- Kaufmann, Waller. (See Kaufmann, Charles F. L. and W. L.)
- Kaupmann, Frederick, Jr., Brooklyn, N. Y., assignor to The Faultless Rubber Company, Ashland, Ohio. Doll. Nos. 58,574-5; Aug. 2; v. 289; p. 135.
- Kautzman, William, Newark, N. J. Flag or emblem. No. 56,882; Jan. 4; v. 282; p. 163.
- Kavan, Vladimir, New York, N. Y. Barber's pole. No. 57,978; May 24; v. 286; p. 800.
- Kavanaugh, Gardner C., Rochester, assignor to American Piano Company, New York, N. Y. Piano-case. No. 56,973; Jan. 25; v. 282; p. 686.
- Kawanami, James M., Stockton, Calif. Automobile. No. 59,359; Oct. 11.
- Kaye, George J., Detroit, Mich. Toy vacuum device. No. 60,041; Dec. 20.
- Keely, Harry V., Brooklyn, N. Y. Toy runabout. No. 59,898; Dec. 6.
- Keenan, Anna, Seattle, Wash. Doll. Nos. 59,968-9; Dec. 13.
- Kehm, August, Chicago, Ill. Radiator. No. 58,189; June 21; v. 287; p. 548.
- Kehm, August, Chicago, Ill. Refrigerating-radiator. No. 58,190; June 21; v. 287; p. 548.
- Kehm, August, Chicago, Ill. Refrigerating-radiator. No. 59,229; Oct. 4.
- Kehoe, Thomas J., Toledo, Ohio. Automobile-hood. No. 57,839; May 10; v. 286; p. 373.
- Kehr, Rudolf, Weehawken, N. J. Trimming for fabrics and like materials. No. 59,010; Sept. 13; v. 290; p. 382.
- Keil, Frank J., New York, N. Y. Trimming for wearing-apparel. Nos. 58,576-8; Aug. 2; v. 289; p. 133.
- Keith, Walter P., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. No. 58,764; Aug. 30; v. 289; p. 965.
- Kelch, Lloyd, assignor of one-half to Ford Meter Box Company, Wabash, Ind. Ash-tray. No. 57,013; May 17; v. 286; p. 584.
- Keller, Isaac B., Philadelphia, Pa. Apron. No. 58,579; Aug. 2; v. 289; p. 133.
- Keller, John J., Columbus, Ohio. Toy airplane. No. 57,437; Mar. 29; v. 284; p. 913.
- Keller, Joseph F., New York, and F. J. Badge, Woodhaven, assignors to Keller Mechanical Engraving Co., Brooklyn, N. Y. Circular slide-rule. No. 59,360; Oct. 11.
- Keller Mechanical Engraving Co. (See Keller, J. F., and Badge, assignors.)
- Keller, William F., Detroit, Mich. Toy monkey. No. 59,011; Sept. 13; v. 290; p. 382.
- Kelley, Hazel, San Jose, Calif. Doll. No. 58,388; July 12; v. 288; p. 378.
- Kellogg, Edmund P., assignor to Albert Pick & Company, Chicago, Ill. Cabinet. No. 59,600; Nov. 8.
- Kellogg, John H., Battle Creek, Mich. Dental implement. No. 59,230; Oct. 4.
- Kelly, Ida N., Long Beach, Calif. Night-shirt. No. 59,012; Sept. 13; v. 290; p. 383.
- Kelly, Isaac J., assignor to Fagel Motors Company, Oakland, Calif. Motor-bonnet. No. 59,897; Dec. 6.
- Kelly, Jerry H., Waupun, Wis., assignor to Paramount Hosiery Form Drying Co., Chicago, Ill. Hosiery drying and shaping structure. No. 59,231; Oct. 4.
- Kelly, Lloyd C. (See Scarborough, Lee R., assignor.)
- Kelly-Springfield Tire Company. (See Switzer, Maurice, assignor.)
- Kelly-Springfield Tire Company. (See Waters, Reginald H., assignor.)
- Kelly Tire and Rubber Company. (See Throsby, Edwin R., assignor.)
- Kelsey, Harold R. and R. J., Pound, Wis. Casing for an electric fan. No. 58,765; Aug. 30; v. 289; p. 965.
- Kelsey, Ralph J. (See Kelsey, Harold R. and R. J.)
- Kennedy, Lutie M., Fulton, Ill. Tire-tread. No. 57,350; Mar. 15; v. 284; p. 548.
- Kennedy, William A. (See Graff, G., and Kennedy.)
- Kennison, Willis E., Providence, R. I. Collar-holder. No. 57,660; Apr. 26; v. 285; p. 733.
- Kent, Arthur A., Ardmore, Pa. Ignition-contactor. No. 57,914; May 17; v. 286; p. 584.
- Kenyon, Harry L., Setauket, N. Y. Tire-tread. Nos. 56,974-6; Jan. 25; v. 282; p. 686.
- Kern, Charles J., Buffalo, assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y. Doll-wagon. No. 58,030; May 31; v. 286; p. 1014.
- Kern, Charles J., Buffalo, assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y. Teeter toy. No. 59,659; Nov. 15.
- Kern, Charles J., Buffalo, assignor to New Era Toy Manufacturing Company, Inc., Cherry Creek, N. Y. Toy table. No. 59,660; Nov. 15.
- Kern, Frederick E., St. Louis, Mo. Shaping and ironing tool. No. 58,007; May 24; v. 286; p. 805.
- Kepley, Harry H., Philadelphia, Pa. Novelty figure. No. 60,042; Dec. 20.
- Kerr, Harry E., and W. J. Barber, assignors to Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Gas-burner. No. 58,914; Sept. 6; v. 290; p. 151.
- Keystone Lantern Company. (See Casey, John T., assignor.)
- Keystone Tire and Rubber Company. (See Whipple, Dorris W., assignor.)
- Kiddie Garment Co. (See Solomon, Jacob, assignor.)
- Kideney, Robert J. (See Jones, John J., assignor.)
- Kieckhefer, Alfred J., assignor to National Enameling & Stamping Company, Milwaukee, Wis. Holder for oil-stove reservoirs. No. 56,928; Jan. 18; v. 282; p. 533.
- Kilborn, Karl B., and W. S. Wolfe, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. No. 59,755; Nov. 22.
- Kilgore, Alice G., St. Paul, Minn. Package containing candy. No. 59,601; Nov. 8.
- Kimball System, Inc., The. (See Haag, William C., assignor.)
- Kimpton, Haupt & Co. (See Haupt, Harry, assignor.)
- Kincaid, Floyd D., Long Creek, Oreg. Milk-strainer. No. 59,232; Oct. 4.
- King, Bert W., Detroit, Mich. Computing-scale. No. 57,840; May 10; v. 286; p. 374.



*Alphabetical list of patentees of designs—Continued.*

- King, Chandler, Montgomery, Ala. Bottle. No. 57,979; May 24; v. 286; p. 801.
- King, Clifford G., Providence, R. I. Advertising-sign. No. 59,423; Oct. 18.
- King, Edward F., Wakefield, R. I. Tire-shoe horn. No. 59,848; Nov. 29.
- King, John O. (See Pohl, Charles, assignor.)
- King, William A., Memphis, Tenn. Automobile-fender. No. 57,661; Apr. 26; v. 285; p. 733.
- King, William A., Memphis, Tenn. Automobile-body. No. 58,766; Aug. 30; v. 289; p. 966.
- Kingman Manufacturing Company. (See Metts, Wallace, assignor.)
- Kingston, Ralph E., and F. W. Woodard, Rouses Point, N. Y. Combination-tool. No. 57,662; Apr. 26; v. 285; p. 733.
- Kintz, Alfred G., Wallingford, Conn., assignor to International Silver Company, Meriden, Conn. Back for hand-mirrors, brushes, or similar articles. No. 57,778; May 3; v. 286; p. 154.
- Kintz, Alfred G., Wallingford, Conn., assignor to International Silver Company, Meriden, Conn. Handle for spoons, forks, or similar articles. No. 57,779; May 3; v. 286; p. 154.
- Kintz, Alfred G., assignor to International Silver Company, Wallingford, Conn. Handle for spoons, forks, or similar articles. No. 58,767; Aug. 30; v. 289; p. 966.
- Kirch, John P., Pittsburgh, Pa. Tire. Nos. 57,663-71; Apr. 26; v. 285; pp. 733-5.
- Kirstein, E., Sons Company. (See Leytham, Thomas, assignor.)
- Kit-Chin-Kit Corporation. (See Lickert, John H., assignor.)
- Klein, Charles J., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Attachment-plug cap. No. 57,841; May 10; v. 286; p. 374.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Support for a hall-light. No. 57,351; Mar. 15; v. 284; p. 548.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Chandelier. Nos. 57,352-3; Mar. 15; v. 284; p. 548.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Ceiling-light. No. 57,354; Mar. 15; v. 284; p. 549.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Bracket. Nos. 57,355-6; Mar. 15; v. 284; p. 549.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Chandelier. No. 57,357; Mar. 15; v. 284; p. 549.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Lighting unit. No. 57,358; Mar. 15; v. 284; p. 549.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Ceiling-light. No. 57,359; Mar. 15; v. 284; p. 550.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Wall-bracket lighting-fixture. No. 57,360; Mar. 15; v. 284; p. 550.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Candelier. No. 57,361; Mar. 15; v. 284; p. 550.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Lighting-fixture. Nos. 57,915-17; May 17; v. 286; pp. 584-5.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Bracket-back for lighting-fixtures. No. 57,918; May 17; v. 286; p. 585.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Canopy. No. 57,919; May 17; v. 286; p. 585.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Lighting-fixture. No. 58,149; June 14; v. 287; p. 356.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Body for lighting-fixtures. No. 58,241; June 28; v. 287; p. 732.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Arm for lighting-fixtures. No. 58,242; June 28; v. 287; p. 733.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Arm for lighting-fixtures. No. 58,580; Aug. 2; v. 289; p. 134.
- Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Candle-plate. No. 59,661; Nov. 15.
- Kleinman, Rudolph, assignor to Bozart Lighting Co., New York, N. Y. Arm for a lighting-fixture. No. 60,043; Dec. 20.
- Klein, William J., et al. (See Fox, Jacob, assignor.)
- Kleinert, I. B., Rubber Company. (See Guinzburg, George K., assignor.)
- Kleinert, I. B., Rubber Company. (See Guinzburg, Victor, assignor.)
- Klems, Albert A., Detroit, Mich. Grease-gun. No. 57,362; Mar. 15; v. 284; p. 550.
- Klems, Albert A., Detroit, Mich. Grease-gun. No. 59,361; Oct. 11.
- Klenke, August C., Berkeley, Calif. Child's vehicle. No. 59,754; Nov. 22.
- Klicpera, Frank, Racine, Wis. Sash-fastener. No. 57,135; Feb. 22; v. 283; p. 715.
- Kline, Clarence A., San Francisco, Calif. Tire-tread. No. 57,842; May 10; v. 286; p. 374.
- Kling, Ernest F., assignor to The Batavia Rubber Company, Batavia, N. Y. Tire-tread. No. 58,491; July 26; v. 288; p. 775.
- Klopfenstine, Clarence B., assignor to Iowa Cord Tire Company, Des Moines, Iowa. Non-skid tread for tires. Nos. 58,191-2; June 21; v. 287; p. 549.
- Knaub, Henry, Richmond, Va. Phonograph-cabinet. No. 58,031; May 31; v. 286; p. 1014.
- Knell, Benjamin F., Philadelphia, Pa. Combined implement for stringed musical instruments. No. 58,768; Aug. 30; v. 289; p. 966.
- Kniffin & Demarest Co. (See Stuart, Ralph E., assignor.)
- Knisely, Elwood E., assignor to G. R. Shanklin, Springfield, Ill. Pencil-cap. No. 59,013; Sept. 13; v. 290; p. 383.
- Knoblock, James W., assignor to American La France Fire Engine Co. Inc., Elmira, N. Y. Respirator-mask. No. 57,527; Apr. 12; v. 285; p. 343.
- Knoblock, James W., assignor to American La France Fire Engine Co. Inc., Elmira, N. Y. Respirator. No. 57,528; Apr. 12; v. 285; p. 343.
- Knowles, Arthur J., Chattanooga, Tenn. Surface of a bottle. No. 57,438; Mar. 29; v. 284; p. 913.
- Knowles, Arthur J., Chattanooga, Tenn. Surface of a bottle. No. 57,672; Apr. 26; v. 285; p. 735.
- Knowles, Edward L., Alliance, Ohio. Flower-holder. No. 57,843; May 10; v. 286; p. 374.
- Knox Tire and Rubber Company, The. (See Carnal, William, assignor.)
- Koetting, August, Brooklyn, N. Y. Hinge. No. 57,529; Apr. 12; v. 285; p. 343.
- Kohlberg, Morris J., Denver, Colo. Incense-burner or candlestick. No. 59,899; Dec. 6.
- Koket, Isidor, New York, N. Y. Crown and bow for watch-cases. No. 58,915; Sept. 6; v. 290; p. 151.
- Kokomo Brass Works. (See Gallagher, Harry J., assignor.)
- Koonz, Frederick W., assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass. Handle for a spoon, fork, or similar article. No. 58,492; July 26; v. 288; p. 775.
- Koonz, Frederick W., assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass. Handle for a spoon; fork, or similar article. No. 60,100; Dec. 27.
- Kopf, John C., Bellevue borough, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Lifting-jack. No. 57,673; Apr. 26; v. 285; p. 735.
- Kopf, John C., Bellevue borough, assignor to Duff Manufacturing Company, Pittsburgh, Pa. Lifting-jack. No. 60,044; Dec. 20.
- Korper, George W., Brooklyn, N. Y. Precious or imitation stone. No. 56,977; Jan. 25; v. 282; p. 687.
- Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Company, New York, N. Y. Arm for lighting-fixtures. No. 57,674; Apr. 26; v. 285; p. 735.
- Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Arm for lighting-fixtures. No. 59,424; Oct. 18.
- Kostszewski, Stephen, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Ring for lighting-fixtures. No. 59,425; Oct. 18.
- Kotato, Teiji, assignor to Morimura Bros., New York, N. Y. Plate or similar article. Nos. 58,581-600; Aug. 2; v. 289; pp. 134-7.
- Koztowski, Konstancy, Rockwood, Pa. Chain ornament. No. 59,493; Oct. 25.
- Krauter, Arthur A., Newark, N. J. Golf-putter head. No. 57,980; May 24; v. 286; p. 801.
- Krauter, Arthur A., South Orange, N. J. Ornamentation of a plier-handle. No. 59,602; Nov. 8.
- Kraft, Emil J., assignor to Racine Rubber Company, Racine, Wis. Tire. No. 59,494; Oct. 25.
- Kraus, John, Pittsburgh, Pa. Precious, semiprecious or synthetic stone, or an imitation thereof. Nos. 59,233-5; Oct. 4.
- Kreisler, Jacques & Co. (See Kreisler, Jacques, assignor.)
- Kreisler, Jacques, New York, N. Y. Pronged setting for a jewel-mounting. No. 58,601; Aug. 2; v. 289; p. 137.
- Kreisler, Jacques, assignor to Jacques Kreisler & Co., New York, N. Y. Jewelry—namely, a finger-ring or article of similar nature. No. 59,495; Oct. 25.
- Krekiewicz, Wasel, Hairy Hill, Alberta, Canada. Hoe. No. 57,057; Feb. 1; v. 283; p. 134.
- Kresteller, Morton T., San Francisco, Calif. Automobile service-car. No. 57,675; Apr. 26; v. 285; p. 736.
- Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Cup. No. 57,844; May 10; v. 286; p. 374.
- Kristofek, Frank J., and H. L. Fischer, assignors to Brown & Bigelow, St. Paul, Minn. Desk-tray. No. 56,920; Jan. 18; v. 282; p. 533.
- Kroehle, Oscar, Lakewood, Ohio. Front of a signal-lens. No. 58,916; Sept. 6; v. 290; p. 151.
- Kromenaker, Frank J., Chicago, Ill. Dice. No. 59,970; Dec. 13.
- Kropacz, John, Calgary, Alberta, Canada. Wrench. No. 57,676; Apr. 26; v. 285; p. 736.
- Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 57,237-8; Mar. 8; v. 284; p. 330.



- Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 57,530; Apr. 12; v. 285; p. 344.
- Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 58,769-71; Aug. 30; v. 289; p. 966.
- Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 59,014; Sept. 13; v. 290; p. 383.
- Kugler, Herbert W., Princeton, N. J., assignor to Globe Rubber Tire Manufacturing Company, New York, N. Y. Tire-tread. No. 58,602; Aug. 2; v. 289; p. 137.
- Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Portable cook-stove. No. 57,478; Apr. 5; v. 285; p. 157.
- Kumalehto, Thyra O., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 58,772; Aug. 30; v. 289; p. 967.
- Kumalehto, Thyra O., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 59,756; Nov. 22.
- Kunkle, George R., assignor to The General Phonograph Manufacturing Company, Elyria, Ohio. Phonograph-casing. No. 58,160; June 14; v. 287; p. 356.
- Kuno, Richard, assignor to Rothschild-Kuno Button Works, Inc., New York, N. Y. Button. Nos. 58,773-5; Aug. 30; v. 289; p. 967.
- Kupper, Herman C. (See Beyrand, André, assignor.)
- Kurose, Keamon, Seattle, Wash. Tire-tread. No. 59,120; Sept. 20; v. 290; p. 592.
- Kush, Josef, Franklin, Pa. Picture-frame. No. 60,045; Dec. 20.
- Kuznjak, Peter, New York, N. Y. Carpet. No. 56,978; Jan. 25; v. 282; p. 687.
- Kuznjak, Peter, New York, N. Y. Pair of tongs. No. 57,239; Mar. 8; v. 284; p. 331.
- Kwatnez, Harry H., assignor to Dallas Brass & Copper Co., Chicago, Ill. Lighting-fixture hanger. Nos. 57,240-2; Mar. 8; v. 284; p. 331.
- L. & M. Rubber Company, The. (See Richards, Homer J., assignor.)
- Labourdette, Jean H., Courbevois, France. Trailer for automobile vehicles. Nos. 58,917-18; Sept. 6; v. 290; p. 151.
- Lachs, Louis. (See Teasdale, George, assignor.)
- Ladd, Amber, Sunnyvale, Calif. Child's garment. No. 59,555; Nov. 1.
- La Fayette Motors Company. (See White, D'Orsay M., assignor.)
- Lake, Edgar B., et al. (See Light, Harry B., assignor.)
- Lake, John W., Dallas, and J. R. Chesnut, Fort Worth, Tex. Automobile-radiator cap. No. 57,677; Apr. 26; v. 285; p. 736.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Waffle-iron. No. 59,496; Oct. 25.
- Lambert, Henry M., Portland, Oreg. Automobile-tire. No. 57,136; Feb. 22; v. 283; p. 715.
- Lambert, Henry M., Portland, Oreg. Cushion-tire. No. 57,363; Mar. 15; v. 284; p. 550.
- Lambright, Grant, Fond du Lac, Wis. Tire-tread. No. 58,243; June 28; v. 287; p. 733.
- Lamkay & Seaman. (See Mueller, Charles O., assignor.)
- Lancaster, Richard, Gilford, N. H. Weather-forecasting device. No. 60,101; Dec. 27.
- Land, Frank S., assignor to Grand Council Order of De Molay for Boys, Kansas City, Mo. Pin, watch-fob, lapel-button, ring, belt-buckle, seal, pin-button, watch-case, or article of similar nature. No. 59,497; Oct. 25.
- Landers, Frary & Clark. (See Curtiss, George E., assignor.)
- Landers, Frary & Clark. (See Lamb, Joseph F., assignor.)
- Landingham, E. C. (See Beaulien, Peter F., assignor.)
- Lane, Helen P., Boston, Mass. Flag, banner, or article of a similar nature. No. 59,015; Sept. 13; v. 290; p. 383.
- Lane, Walter, Holland, Mich., assignor to Bush & Lane Piano Company. Cabinet-phonograph. No. 57,680; Apr. 26; v. 285; p. 736.
- Lang, Arthur C., assignor to The N. K. Fairbank Company, Chicago, Ill. Cake of soap. No. 58,032; May 31; v. 286; p. 1014.
- Langstaff, John E., Brooklyn, N. Y. Boat-hull. No. 58,033; May 31; v. 286; p. 1014.
- Langstom, James F. (See Woods, W. R., and Langstom.)
- Lapidus, Isidore H., assignor to Eles Jewelry Co., New York, N. Y. Jewelry—namely, a finger ring or article of similar nature. No. 58,603; Aug. 2; v. 289; p. 137.
- Lapidus, Isidore H., assignor to Eles Jewelry Co., New York, N. Y. Jewelry—namely, a finger-ring or article of similar nature. No. 59,236; Oct. 4.
- Lapidus, Leon, Brooklyn, N. Y. Automobile-lamp. No. 58,776; Aug. 30; v. 289; p. 967.
- Lapidus, Leon, Brooklyn, N. Y. Combined hinge and bracket socket-piece for lamp-casings. No. 59,498; Oct. 25.
- La Pierre, Arthur F., St. Louis, Mo. Phonograph-cabinet or similar article. Nos. 57,678-9; Apr. 26; v. 285; p. 736.
- La Pierre, Frank H., East Orange, N. J. Vase. No. 59,016; Sept. 13; v. 290; p. 383.
- La Pierre, Frank H., East Orange, N. J. Back of a mirror, brush, or similar article. No. 59,237; Oct. 4.
- La Pierre, Frank H., East Orange, N. J. Candlestick. No. 59,238; Oct. 4.
- Laraway, Fred A., Cleveland, N. Y. Display-package of packing-gaskets. No. 57,531; Apr. 12; v. 285; p. 344.
- Larkins, William B., San Rafael, Calif. Corner-piece for vehicle-tops. No. 59,362; Oct. 11.
- La Roche, Charles W., assignor of one-half to J. N. Meyers, Philadelphia, Pa. Lamp. No. 59,121; Sept. 20; v. 290; p. 592.
- Larocque, Eli E., Pawtucket, R. I. Time-indicator for use in laundries. No. 58,604; Aug. 2; v. 289; p. 138.
- Larsen, John M., assignor, by mesne assignments, to Continental Machinery Company, Chicago, Ill. Casing for a combined condenser and freezer. No. 57,137; Feb. 22; v. 283; p. 715.
- Larson, Nels, Duluth, Minn. Combination-tool. No. 56,979; Jan. 25; v. 282; p. 687.
- Lashar, Thomas B., Fairfield, assignor to International Silver Company, Meriden, Conn. Spoon, fork, or similar article. No. 58,493; July 26; v. 288; p. 775.
- Laskey, Bertha E., Skowhegan, Me. Pin. No. 58,443; July 19; v. 288; p. 570.
- La Tour, Lee, and A. F. Munnell, assignors to Progress Roller Company, Omaha, Nebr. Inking-roller. No. 59,017; Sept. 13; v. 290; p. 383.
- Lauterbur, Frank X., Sidney, Ohio. Dough-mixer. Nos. 58,034-5; May 31; v. 286; pp. 1014-15.
- Launzon, Hector, Cincinnati, Ohio. Bottle protecting and carrying device. No. 59,662; Nov. 15.
- Lavell, Lulu V., Minneapolis, Minn. Candle-holder. No. 57,920; May 17; v. 286; p. 585.
- Laver, John J., Chicago, Ill. Pack of playing-cards. No. 59,757; Nov. 22.
- Lawlor, Emery L., Youngstown, Ohio. Tire. Nos. 56,980-1; Jan. 25; v. 282; p. 687.
- Lawlor, Emery L., Youngstown, Ohio. Tire. No. 57,138; Feb. 22; v. 283; p. 715.
- Lawlor, Emery L., Youngstown, Ohio. Tire. No. 58,494; July 26; v. 288; p. 775.
- Laws, Arthur J., Cleveland, assignor to J. E. Townsend, S. P. Fetzler, and W. B. James, trustees, Lakewood, Ohio. Medallion. No. 59,663; Nov. 15.
- Lawton, Thomas F., assignor to Cone Company of America, New York, N. Y. Ice-cream cone. No. 59,603; Nov. 8.
- Lay, Gladys I., Los Angeles, Calif. Incense-burner. No. 59,556; Nov. 1.
- Layne, Leland, Whittier, Calif. Condiment-holder. No. 59,758; Nov. 22.
- Lazar, Anna, North Detroit, Mich. Scarf. No. 57,532; Apr. 12; v. 285; p. 344.
- Lebo, Daniel T., Kansas City, Mo. Shoe-sole. No. 59,971; Dec. 13.
- Lebolt & Company. (See Lebolt, Myer H., assignor.)
- Lebolt, Myer H., assignor to Lebolt & Company, Chicago, Ill. Wedding-ring. No. 57,681; Apr. 26; v. 285; p. 737.
- Lebzelter, William F., assignor to The Century Manufacturing Company, Inc., Elizabethtown, Pa. Toy-glider. No. 58,036; May 31; v. 286; p. 1015.
- Le Claire, Theodore N., St. Paul, Minn. Pugilist doll. No. 58,389; July 12; v. 288; p. 378.
- Lederer, Sigmund, Providence, R. I. Watch-bracelet. No. 59,972; Dec. 13.
- Lee, Hoard, Shreveport, La. Motor-vehicle steering-wheel. No. 58,244; June 28; v. 287; p. 733.
- Lee, Thomas L., assignor to North East Electric Company, Rochester, N. Y. Casing of an induction-coil. No. 58,495; July 26; v. 288; p. 776.
- Lee, Thomas L., assignor to North East Electric Company, Rochester, N. Y. Window of an instrument-dial. No. 59,557; Nov. 1.
- Leeper, Edward E., Council Bluffs, Iowa. Medicine-carton. No. 58,919; Sept. 6; v. 290; p. 152.
- Le Fevre, August, Detroit, Mich. Flag, pennant, sign, emblem, or article of similar nature. No. 57,533; Apr. 12; v. 285; p. 344.
- Leibold, Jacob G., San Francisco, Calif. Shirt-front. No. 56,982; Jan. 25; v. 282; p. 688.
- Leicher, Fenton A., Luverne, Minn. Body for road-gravelers. No. 58,777; Aug. 30; v. 289; p. 968.
- Leighton, Oscar E., Alston, assignor to R. M. Lovejoy, Boston, Mass. Shock-absorber. No. 57,682; Apr. 26; v. 285; p. 737.
- Lemieux, Onesime, and George Liboiron, Montreal, Quebec, Canada. Side car for motorcycles. No. 58,037; May 31; v. 286; p. 1015.
- Lentz, Frederick G., Langhorne, assignor to The Quaker Mills, Philadelphia, Pa. Quilt. No. 59,018; Sept. 13; v. 290; p. 384.
- Lerch, William G., Akron, assignor to India Tire and Rubber Company, Magadore, Ohio. Tire-tread. No. 58,674; Aug. 9; v. 289; p. 370.
- Lerner, Samuel A., Jersey City, N. J. Store-front. No. 56,930; Jan. 18; v. 282; p. 533.
- Lesmieski, Stanislaus, Rochester, N. Y. Smoking set. No. 58,193; June 21; v. 287; p. 549.
- Leuckert, William, Astoria, N. Y. Automobile parking-light. No. 59,239; Oct. 4.
- Levasseur, Paul, and A. P. Dumas, Fall River, Mass. Sole-trimming machine. No. 58,194; June 21; v. 287; p. 549.
- Levitt, Adolph, New York, N. Y. Baking-oven. No. 57,243; Mar. 8; v. 284; p. 331.



*Alphabetical list of patentees of designs—Continued.*

- Levy, Bertha, New York, N. Y. Pocket member. No. 59,759; Nov. 22.
- Levy, Sol. (See Zamsky, H., and Levy.)
- Lewis, William W., Seattle, Wash. Bottle. No. 56,983; Jan. 25; v. 282; p. 688.
- Leytham, Thomas, assignor to E. Kirstein Sons Company, Rochester, N. Y. Shell spectacle-frame. No. 58,920; Sept. 6; v. 290; p. 152.
- Liboiron, George. (See Lemieux, O., and Liboiron.)
- Lichtman, Abraham E., New York, N. Y. Tire-tread. No. 53,773; Aug. 30; v. 289; p. 968.
- Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Potato-knife. No. 57,534; Apr. 12; v. 285; p. 344.
- Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Combination knife and fork. No. 57,683; Apr. 26; v. 285; p. 737.
- Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Canning-knife. No. 57,684; Apr. 26; v. 285; p. 737.
- Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Spatula. No. 57,780; May 3; v. 286; p. 155.
- Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Stirring and turning tool. No. 57,845; May 10; v. 286; p. 375.
- Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Cutlery-cabinet. No. 58,293; July 5; v. 288; p. 165.
- Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Carver-fork. No. 58,779; Aug. 30; v. 289; p. 968.
- Lieberfreund Brothers. (See Lieberfreund, Nathan, assignor.)
- Lieberfreund, Nathan, Passaic, N. J., assignor to Lieberfreund Brothers, New York, N. Y. Charm. No. 59,240; Oct. 4.
- Light, Harry B., assignor of one-third to E. B. Lake and one-third to T. Christopher, Los Angeles, Calif. Spark-plug. No. 57,191; Mar. 1; v. 284; p. 145.
- Lightoller Company. (See Dahl, Thure, assignor.)
- Lillibridge, Harry D., assignor to American Encaustic Tiling Co., Ltd., Zanesville, Ohio. Wall-receptacle. Nos. 58,780-3; Aug. 30; v. 289; pp. 968-9.
- Lillibridge, Harry D., assignor to American Encaustic Tiling Co., Ltd., Zanesville, Ohio. Wall corner-receptacle. No. 58,784; Aug. 30; v. 289; p. 969.
- Lillibridge, Harry D., assignor to American Encaustic Tiling Co., Ltd., Zanesville, Ohio. Wall-receptacle. No. 58,785; Aug. 30; v. 289; p. 970.
- Lincoln Fiscal Agency. (See Jones, Joseph E., assignor.)
- Linden, John O., Albuquerque, N. Mex. Cosmetic-bottle and massage device. No. 57,364; Mar. 15; v. 284; p. 550.
- Linderman, Bert A., Chicago, Ill. Cabinet for an electrical power plant. No. 57,078; Feb. 8; v. 283; p. 323.
- Linn, John B. (See Van Orsdale, A. A., and Linn.)
- Linscott, Louis R., Woburn, Mass., assignor to White & Wyckoff Manufacturing Company, Holyoke, Mass. Writing-paper-tablet cover. No. 59,558; Nov. 1.
- Lion, Edwin E., assignor to The Blue Jacket Tailoring Company, New York, N. Y. Calendar-mount. No. 59,241; Oct. 4.
- Lion Electric Appliance Co. (See Ohm, Albert J. D., assignor.)
- Lisby, Arthur M., New York, N. Y. Button. No. 58,921; Sept. 6; v. 290; p. 152.
- Liskowacki, Adalbert, Detroit, Mich. Standard. No. 59,664; Nov. 15.
- Litchfield, Amos L., Toledo, Ohio. Radiator-cap. No. 59,363; Oct. 11.
- Livingston, Fremont P., Denver, Colo. Foot-scraper for automobiles. No. 58,605; Aug. 2; v. 289; p. 138.
- Livingston, Fremont P., Denver, Colo. Foot-mat frame for automobiles. No. 58,606; Aug. 2; v. 289; p. 138.
- Lloyd, Thomas C., assignor to The Irving Drew Company, Portsmouth, Ohio. Sole for boots, shoes, or similar articles. No. 59,849; Nov. 29.
- Lufrio, Henry C., Providence, R. I. Collar-holder. No. 58,786; Aug. 30; v. 289; p. 970.
- Lobl, Frederick, Middleboro, Mass. Puff for applying powder and liquid preparations. No. 57,685; Apr. 26; v. 285; p. 737.
- Lochrie, John. (See Whitaker, L. L., and Lochrie.)
- Lockhart, Mary B., Portsmouth, Va. Chest or similar article. No. 57,981; May 24; v. 286; p. 801.
- Loewenberg, Isador E., Converse, assignor to Wabash Basket Company, Marion, Ind. Basket. No. 57,535; Apr. 12; v. 285; p. 344.
- Loewenberg, Victor, New York, N. Y. Bedpan. No. 57,439; Mar. 29; v. 284; p. 913.
- Lojewski, Saturnin, Schenectady, N. Y. Curtain and shade hanger. No. 60,046; Dec. 20.
- Lombard, Nathaniel, assignor to Lombard, White Company, Worcester, Mass. Washing-machine casing. No. 58,922; Sept. 6; v. 290; p. 152.
- Lombard, White Company. (See Lombard, Nathaniel, assignor.)
- Lomer Armored Tire Company. (See Cartledge, Rowland E., assignor.)
- London General Omnibus Company. (See Gage, Samuel, assignor.)
- Loos, Edward. (See Elliott, C. H., and Supansick, assignors.)
- Lope, Edward L., Brooklyn, N. Y. Radiant gas-heater. No. 58,151; June 14; v. 287; p. 356.
- Lord, Samuel C., Milton, Mass., assignor to Standard Thermometer Company, Portland, Me. Desk-thermometer. No. 57,686; Apr. 26; v. 285; p. 737.
- Loring, Walter S., Plymouth, Mass. Game-board. No. 57,982; May 24; v. 286; p. 801.
- Los Angeles Brewing Company. (See Eckl, Edward, assignor.)
- Losey, North H., Akron, Ohio. Tire-tread. No. 57,781; May 3; v. 286; p. 155.
- Lotus Cut Glass Co., The. (See Groves, J. Willard, assignor.)
- Lougheed, Victor, Santa Barbara, assignor to Duodisk Steel Wheel Corporation, Los Angeles, Calif. Vehicle-wheel. No. 57,921; May 17; v. 286; p. 585.
- Lovejoy, Alfred A., South Bend, Ind. Towel-holder. No. 57,058; Feb. 1; v. 283; p. 134.
- Lovejoy, Ralph M. (See Leighton, Oscar E., assignor.)
- Low, Arthur B., Denver, Colo. Casing for tire-gages. No. 59,364; Oct. 11.
- Lowe, Leon P., San Francisco, Calif. Portable gas-heater. No. 57,687; Apr. 26; v. 285; p. 738.
- Lowery, James, Euclid, assignor to The General Top Company, Cleveland, Ohio. Vehicle-top. No. 57,782; May 3; v. 286; p. 155.
- Luca, Angelina U., Meriden, Conn. Window-shade. No. 57,846; May 10; v. 286; p. 375.
- Lucas-Miner Tool and Production Company, The. (See Black, Otto E., assignor.)
- Lucas, Philip G., Jr., St. Louis, Mo. Combined bread-box and flour-bin or similar article. No. 59,499; Oct. 25.
- Luchessa, James M., Cambria, Calif. Jar. No. 58,607; Aug. 2; v. 289; p. 138.
- Lucky Star Manufacturing Company, The. (See Page, Arden C., assignor.)
- Ludwig, Alice N., Markville, Minn. Doll. No. 58,787; Aug. 30; v. 289; p. 970.
- Lukaszewska, Antoinette E. K., Buffalo, N. Y. Combined oil-stove and lamp-frame. No. 57,688; Apr. 26; v. 285; p. 738.
- Lumber, Edwin F., Detroit, Mich., assignor to Morgan & Wright. Tire-tread. No. 58,788; Aug. 30; v. 289; p. 970.
- Lund, Clarence W. (See Worthy, J. H., and Lund.)
- Lundberg, Gustave E., Kewanee, Ill. Battery-connector. No. 58,675; Aug. 9; v. 289; p. 370.
- Lustig, Albert, San Francisco, Calif. Doll. No. 58,390; July 12; v. 288; p. 379.
- Lynch, Charles H., Seattle, Wash. Name-plate. No. 59,365; Oct. 11.
- Lyons, John F., Seattle, Wash. Game-board. No. 59,850; Nov. 29.
- Lyons, Robert W., Jefferson, Wis. Tire. No. 58,789; Aug. 30; v. 289; p. 970.
- Macdonald, Angus S., Great Neck, N. Y., assignor to Snead & Company, Jersey City, N. J. Umbrella-stand. No. 57,922; May 17; v. 286; p. 585.
- Macdonald, Margaret, Davenport, Iowa. Doll. No. 59,242; Oct. 4.
- Mackintosh, William M., Springfield township, Summit county, Ohio. Tire. No. 57,983; May 24; v. 286; p. 801.
- MacLagan, Hector P., Chicago, Ill. Razor-blade. No. 59,243; Oct. 4.
- MacMillan, John A., Dayton, Ohio. Non-skid tread for airless or pneumatic tires. No. 59,426; Oct. 18.
- Macneale, Neil, assignor to The Corcoran-Victor Company, Cincinnati, Ohio. Lamp-door. No. 58,676; Aug. 9; v. 289; p. 371.
- Macoy Publishing & Masonic Supply Co. (See Riegel, Emma B., assignor.)
- Macowsky, David. (See Miller, J., and Macowsky.)
- MacQuarrie, John, assignor to S. Serduke, San Francisco, Calif. Statuette. No. 59,559; Nov. 1.
- Maddock Pottery Company. (See Schnepf, Emil L., assignor.)
- Madison, George E., Flint, assignor to General Motors Corporation, Detroit, Mich. Top for motor-vehicles. No. 57,689; Apr. 26; v. 285; p. 738.
- Madison Tire & Rubber Company. (See Belden, Russell D., assignor.)
- Madison Tire & Rubber Co. (See Brewster, Frank H., assignor.)
- Maerz, Frederick K., assignor to The Morreau Company, Cleveland, Ohio. Arm for lighting-fixtures. Nos. 57,690-1; Apr. 26; v. 285; p. 738.
- Maerz, Frederick K., assignor to The Morreau Company, Cleveland, Ohio. Lighting-fixture. Nos. 57,692-3; Apr. 26; v. 285; p. 739.
- Maganuco, Carmelo, and F. Philadelphia, Pa. Washtub. No. 58,152; June 14; v. 287; p. 357.
- Maganuco, Francisco. (See Maganuco, Carmelo, and F.)
- Mahan, Edward W., Kansas City, Mo. Oil-burner. No. 60,102; Dec. 27.
- Maher, William F., New York, N. Y. Clock-face. No. 58,444; July 19; v. 288; p. 570.



- Maier, John, and T. Rice, Canton, Ohio. Toy. Nos. 58,792-3; Aug. 30; v. 289; p. 971.
- Maisel, Louis, Buffalo, N. Y. Telephone-support. No. 58,794; Aug. 30; v. 289; p. 971.
- Majestic Electric Development Co. (See Shoenberg, Milton H., assignor.)
- Major, Alfred S., assignor to American Bank Note Company, New York, N. Y. Bank-note. No. 59,019; Sept. 13; v. 290; p. 384.
- Maker, Fred S. (See Maker, Ralph K. and F. S.)
- Maker, Fred S., Seekonk, Mass., and R. K. Maker, Providence, R. I. Tie-clip. No. 58,153; June 14; v. 287; p. 357.
- Maker, Ralph K. (See Maker, Fred S. and R. K.)
- Maker, Ralph K. and F. S., Providence, R. I. Collar-holder. No. 57,694; Apr. 26; v. 285; p. 739.
- Malavarca, Eduardo, Newark, N. J. Doll. Nos. 58,391-2; July 12; v. 288; p. 379.
- Mallett, Joseph A., Worcester, Mass. Wrench. No. 57,847; May 10; v. 286; p. 375.
- Mallinson, H. R., & Co. Inc. (See Callahan, Lillian, assignor.)
- Mallory, George P., Yorklyn, Del., assignor to Sanitary Products Corporation of America, Philadelphia, Pa. Paper fork. No. 58,807; Aug. 30; v. 289; p. 974.
- Malone, Domenick, Chicago, Ill. Phonograph-cabinet. No. 57,365; Mar. 15; v. 284; p. 551.
- Maloney, Paul, New York, N. Y., assignor to International Devices Company. Combined cabinet and standard for X-ray machines. No. 56,931; Jan. 18; v. 282; p. 633.
- Mandalian, Sahatiel G., North Attleboro, Mass. Bag-top. No. 59,851; Nov. 29.
- Manfredy, Moise, Brooklyn, N. Y. Pin. No. 59,020; Sept. 13; v. 290; p. 384.
- Mannes, Benjamin F., Chippewa Falls, Wis. Font of type. No. 57,536; Apr. 12; v. 285; p. 345.
- Manning, Bowman & Co. (See Farr, Edward A., assignor.)
- Manning, J. E., et al., trustees. (See Mullvain, Earnest E., assignor.)
- Mannino, Giuseppe, Philadelphia, Pa. Illuminating device. No. 58,496; July 26; v. 288; p. 776.
- Mannweiler, Anthony C., Fort Wayne, Ind. Incandescent electric lamp. No. 59,500; Oct. 25.
- Manu, John, Detroit, Mich. Forged-steel vehicle-wheel. No. 57,246; Mar. 8; v. 284; p. 332.
- Manuel, William N., and E. Pascucci, assignors to Corning Glass Works, Corning, N. Y. Combined Fresnel and plain lantern-globe. No. 57,984; May 24; v. 286; p. 801.
- Manuel, William N., and E. Pascucci, assignors to Corning Glass Works, Corning, N. Y. Fresnel lantern-globe. No. 57,985; May 24; v. 286; p. 802.
- Manzel, Charles W., Buffalo, N. Y. Oil-gun. No. 57,986; May 24; v. 286; p. 802.
- Manzel, Charles W., Buffalo, N. Y. Grease-gun. No. 57,987; May 24; v. 286; p. 802.
- Manzel, Charles W., Buffalo, N. Y. Lubricating attachment. No. 58,154; June 14; v. 287; p. 357.
- Marcellus, Percy S., Orange, N. J. Toothbrush. No. 58,445; July 19; v. 288; p. 571.
- Marciniak, Luol. (See Baj, J., and Marciniak.)
- Marcy, Allie W., Putnam, Conn. Finger-grip portion of a pin-punch or similar tool. No. 57,139; Feb. 22; v. 283; p. 715.
- Mariner, Joseph A., Chicago, Ill. Cravat-holder. No. 58,094; June 7; v. 287; p. 156.
- Maris, Arthur Mcl., Philadelphia, Pa., assignor to du Pont Motors Inc., Wilmington, Del. Automobile-radiator. No. 57,140; Feb. 22; v. 283; p. 715.
- Marko, Paul M., Brooklyn, N. Y. Storage-battery terminal. No. 59,021; Sept. 13; v. 290; p. 384.
- Marko, Paul M., Brooklyn, N. Y. Handle. No. 59,122; Sept. 20; v. 290; p. 592.
- Marks, Charles W., Tracy, Minn. Pennant. No. 58,393; July 12; v. 288; p. 379.
- Marsh, Ernest E., Ypsilanti, Mich. Seat-cushion. No. 59,900; Dec. 6.
- Marsh, Samuel L., New York, N. Y. Directory-cabinet. No. 58,245; June 28; v. 287; p. 733.
- Marson, Clifford J. (See Doan, H. C., and Marson.)
- Marston, Mary, Omaha, Nebr. Statuette, watch-fob, emblem, badge, radiator-cap, or an article of similar nature. No. 58,608; Aug. 2; v. 289; p. 138.
- Martin, Adolf, assignor to Jesse Dean Incorporated, Trenton, N. J. Surface decoration for china, glass, or like articles. No. 56,984; Jan. 25; v. 282; p. 688.
- Martin, Friedrich. (See Hinz, Leo, assignor.)
- Martin, James, New York, N. Y. Pneumatic-tire shoe or tread. Nos. 58,795-6; Aug. 30; v. 289; p. 972.
- Martin, Milton G. (See Breitenstein, M. J., and Martin.)
- Martin, Patrick A., Birmingham, England. Golf-ball. No. 59,366; Oct. 11.
- Martinka, Elizi K. (See Martinka, John K. and E. K.)
- Martinka, John K. and E. K., assignors of one-third to M. Tomecek, New York, N. Y. Egg-tester. No. 57,988; May 24; v. 286; p. 802.
- Marx, Robert S., Cincinnati, Ohio. Badge or emblem. No. 59,560; Nov. 1.
- Maryland Toy Manufacturing Company, The. (See Valenzia, Leo, assignor.)
- Masconi, Celestina, assignor to E. Greenfield's Sons, Brooklyn, N. Y. Candy or similar article of manufacture. No. 59,760; Nov. 22.
- Masinter, Hyman J., Los Angeles, Calif. Statuette. No. 56,885; Jan. 4; v. 282; p. 164.
- Masline, Charles A., Sr., Port Chester, N. Y. Flag. No. 57,366; Mar. 15; v. 284; p. 551.
- Mason, Edwin. (See Benbow, J., and Mason.)
- Mason, Joseph W., assignor to The Hart & Company, Cleveland, Ohio. Hat-lining. No. 59,023; Sept. 13; v. 290; p. 385.
- Mason, Ralph K., Bantam, Conn. Safety switch-casing. No. 57,244; Mar. 8; v. 284; p. 331.
- Mason Tire & Rubber Company, The. (See Clough, Lee E., assignor.)
- Massey, James S., Toledo, Ohio. Reflector. No. 58,923; Sept. 6; v. 290; p. 152.
- Master Tire and Rubber Company, The. (See Black, Joseph J., assignor.)
- Mathews, Ralph H. G., Chicago, Ill. Spark-gap rotor. No. 58,095; June 7; v. 287; p. 156.
- Mathieu, Frederick W. (See Strahan, G. V., and Mathieu.)
- Mathieu, Frederick W., assignor to Mitchell Vance Co., Inc., New York, N. Y. Holder or lighting-fixtures. Nos. 59,901-2; Dec. 6.
- Matthews Engineering Company, The. (See Cosgray, Mark C., assignor.)
- Maul, Otto E., Mount Vernon, N. Y. Appliqué trimming for wearing-apparel or article of similar nature. No. 57,537; Apr. 12; v. 285; p. 345.
- Maurer, Ruth J., La Crosse, Wis. Bottle. No. 57,695; Apr. 26; v. 285; p. 739.
- Maurer, Ruth J., La Crosse, Wis. Jar. No. 57,696; Apr. 26; v. 285; p. 739.
- Maxim Manufacturing Company. (See Smith, Charles F., assignor.)
- Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 57,245; Mar. 8; v. 284; p. 332.
- Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 57,538; Apr. 12; v. 285; p. 345.
- Mayer, Joshua W., New York, N. Y. Gem-setting or similar article. No. 58,609; Aug. 2; v. 289; p. 138.
- Mayer, Joshua W., New York, N. Y. Ring or similar article. Nos. 59,249-52; Oct. 4.
- Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 59,665; Nov. 15.
- Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 60,047; Dec. 20.
- Mayer, Marcus I., and G. H. Phelps, St. Louis, Mo. Novelty figure. No. 58,446; July 19; v. 288; p. 571.
- Mayer, Walter W., New York, N. Y. Textile fabric. No. 59,501; Oct. 25.
- Mayhew, James N., Minneapolis, Minn. Shoe-horn. No. 58,797; Aug. 30; v. 289; p. 972.
- McAfee, Jesse B., E. D. Benton, and M. K. Davis, Dallas, Tex. Physician's traffic-signal. No. 57,697; Apr. 26; v. 285; p. 740.
- McAfee, Jesse B., Dallas, Tex. Physician's traffic-signal. No. 58,097; June 7; v. 287; p. 157.
- McAvoy, John J., Seattle, Wash. Watch-fob. No. 59,244; Oct. 4.
- McCarthy, Charles S., Jr., Sandusky, Ohio. Cultivator. No. 58,195; June 21; v. 287; p. 549.
- McCarthy, Ernest F., Worcester, Mass. Lamp-support. No. 59,604; Nov. 8.
- McCarthy, George L., Rye, N. Y. Pack of playing-cards. No. 59,761; Nov. 22.
- McCarthy, Marcelline, New Orleans, La. Condiment-shaker. No. 57,848; May 10; v. 286; p. 375.
- McCarthy, William B., assignor to The Rostand Manufacturing Company, Milford, Conn. Tubing for automobile-windshield frames. No. 59,367; Oct. 11.
- McCaul, George, Portsmouth, Va. Emblem, pin, badge, or similar article. No. 59,903; Dec. 6.
- McCauley, Herbert J., East Aurora, N. Y. Mud-guard for cycles. No. 58,246; June 28; v. 287; p. 733.
- McClaren Rubber Company. (See Downes, Elmer N., assignor.)
- McCullough, Charles D., Des Moines, Iowa. Tire-core. No. 59,024; Sept. 13; v. 290; p. 385.
- McCullough, W. A., & Sons. (See McCullough, William A., assignor.)
- McCullough, William A., assignor to W. A. McCullough & Sons, Inc., Webster City, Iowa. Drinking-pan for stock-fountains. No. 58,196; June 21; v. 287; p. 549.
- McComas, Jesse, et al. (See Hopkins, James H., assignor.)
- McCombs, Lawrence S., Huntington, Ind. Display-rack for shoes. No. 56,883; Jan. 4; v. 282; p. 164.
- McCormick, Charles E., assignor to Mercury Body Corporation, Lexington, Ky. Automobile-body. No. 56,884; Jan. 4; v. 282; p. 164.
- McCormick, Clarence E., Youngstown, Ohio. Tread for automobile-casings. No. 59,245; Oct. 4.
- McCormick, Raleigh, St. Louis, Mo. Tread-link for tires. No. 59,904; Dec. 6.
- McCormick, Ulysses S., assignor of one-fourth to C. L. Barber, Buffalo, N. Y. Headlight-dimmer. No. 57,698; Apr. 26; v. 285; p. 740.
- McCormish, William E., Akron, assignor to The American Tire Corporation, Cleveland, Ohio. Tire-tread. No. 57,079; Feb. 8; v. 283; p. 323.
- McCullough, David R., Oakland, Calif. Combined watch and key-ring strap. No. 59,025; Sept. 13; v. 290; p. 385.



## Alphabetical list of patentees of designs—Continued.

- McGhee, Norman L., Washington, D. C., assignor to Alpha Phi Alpha Fraternity. Badge. No. 59,905; Dec. 6.
- McCreary, Harry. (See Brubaker, William A., assignor.)
- McCreary, Harry, Indiana, Pa. Non-skid tire. No. 58,610; Aug. 2; v. 289; p. 139.
- McDonnell, Ralph R., Chicago, Ill. Automobile direction-indicator. No. 57,141; Feb. 22; v. 283; p. 716.
- McEnery, Charles T., San Francisco, Calif. Doll. No. 59,246; Oct. 4.
- McFadden, Glenn E., Lincoln, Nebr., assignor to Champion Brass Works, Coldwater, Mich. Loop for lighting-fixtures. No. 57,699; Apr. 26; v. 285; p. 740.
- McGee, Hugh J., Seattle, Wash. Street-lighting device. No. 58,790; Aug. 30; v. 289; p. 971.
- McGregor, Allan L., Chicago, Ill. Cap for automobile-radiators. No. 58,294; July 5; v. 288; p. 165.
- McGrevy, Jeremiah, assignor to Solidarity Watch Case Company, Brooklyn, N. Y. Watchcase-bow. No. 59,247; Oct. 4.
- McGrevy, Jeremiah, assignor to Solidarity Watch Case Company, Brooklyn, N. Y. Ribbon loop for watchcases. Nos. 59,762-3; Nov. 22.
- McHugh, Patrick J., Cincinnati, Ohio. Vehicle-tire. No. 58,791; Aug. 30; v. 289; p. 971.
- McInerney, Margaret, Los Angeles, Calif. Refreshment-plate. No. 58,038; May 31; v. 286; p. 1015.
- McKee Glass Company. (See Sailer, George D., assignor.)
- McKee Glass Company. (See Smith, Maurice A., assignor.)
- McKee, Louis H., Trenton, N. J. School-desk. No. 58,247; June 28; v. 287; p. 734.
- McKinley, Caroline B., Washington, D. C. Costume. No. 58,447; July 19; v. 288; p. 571.
- McKinney, D. B., and J. Dusch, Wheeling, W. Va. Burial-vault. No. 57,440; Mar. 29; v. 284; p. 914.
- McKinnie, Henry, Pittsburgh, Pa. Bent-wire cloth-fastener. No. 56,880; Jan. 4; v. 282; p. 163.
- McKone, Charles W., assignor to The Tuscan Tire & Rubber Company, Carrollton, Ohio. Automobile-tire. No. 57,849; May 10; v. 286; p. 375.
- McLarn Ernest S., Glenwood Landing, assignor to Western Electric Company, Incorporated, New York, N. Y. Desk-stand for hand-telephones. Nos. 57,700-1; Apr. 26; v. 285; p. 740.
- McMahan, William W., Trenton, N. J., assignor to Ajax Rubber Company, Inc., Millbrook, N. Y. Tire-tread. No. 59,973; Dec. 13.
- McMullen, Charles. (See Muller, A. G., and McMullen.)
- McNabb, H. J., West Carrollton, and R. T. Parrish, Dayton, Ohio. Spark-plug. No. 57,080; Feb. 8; v. 283; p. 324.
- McNaughton, John. (See McNaughton, Mabel P. and J.)
- McNaughton, John, New York, N. Y. Vegetable scraper and parer. No. 59,248; Oct. 4.
- McNaughton, Mabel P. and J., New York, N. Y. Mop-head. No. 60,103; Dec. 27.
- McPhibben Lighting Fixture Company. (See Westphal, Gottfried, assignor.)
- McUpson, Edgar C., Washington, D. C., assignor of one-half to E. B. Browning, Spartanburg, S. C. Badge. No. 58,611; Aug. 2; v. 289; p. 139.
- McWilliams, Curtis, Newport, R. I. Finger-ring. No. 57,247; Mar. 8; v. 284; p. 332.
- Meacham, Haskell K., Abilene, Tex. Military uniform. No. 59,502; Oct. 25.
- Meadoff Abraham S., Brooklyn, N. Y. Lamp-shade. No. 59,852; Nov. 29.
- Medén, Eloy H., Short Hills, assignor to American Gas-Accumulator Company, Elizabeth, N. J. Highway-signal. No. 58,096; June 7; v. 287; p. 156.
- Medén, Eloy H., Short Hills, assignor to American Gas-Accumulator Company, Elizabeth, N. J. Welding-blow-pipe or similar article. No. 59,368; Oct. 11.
- Meek, Bruce, and F. W. Miller, Des Moines, Iowa. Sign. No. 58,155; June 14; v. 287; p. 357.
- Meeker, Althia A., Eldon, Iowa. Plate. No. 58,248; June 28; v. 287; p. 734.
- Megar, Joseph, New York, N. Y. Bracelet. No. 59,764; Nov. 22.
- Megurowsky, Max, New York, N. Y. Watchcase. No. 59,853; Nov. 29.
- Meldinger, Henry L., Sioux City, Iowa. Phonograph-cabinet. No. 58,677; Aug. 9; v. 289; p. 371.
- Melser, Ethel A., Redlands, Calif. Doll, statuette, or minaret figure. No. 59,854; Nov. 29.
- Meissner, Emil J., West Hoboken, N. J. Dinner-plate. No. 58,039; May 31; v. 286; p. 1015.
- Mellen, Helen, Los Angeles, Calif. House-dress. No. 59,561; Nov. 1.
- Melling, Brainerd L., Kansas City, Mo. Automobile-tire. No. 58,612; Aug. 2; v. 289; p. 139.
- Mellnik, Roman, Young, Saskatchewan, Canada. Watch-chain. No. 57,248; Mar. 8; v. 284; p. 332.
- Mendelsohn, Herman T., assignor to Simon & Mendelsohn, New York, N. Y. Article of manufacture comprising a flouncing or edging for fabrics. No. 57,249; Mar. 8; v. 284; p. 332.
- Mendelsohn, Herman T., assignor to Simon & Mendelsohn, New York, N. Y. Netted fabric. No. 57,539; Apr. 12; v. 285; p. 345.
- Mendelsohn, Simon C., Johannesburg, Transvaal, South Africa. Mat-holder. No. 59,503; Oct. 25.
- Mengel Company, The. (See Bodenmiller, Joseph P., assignor.)
- Mengel Company, The. (See Green, Warren T., assignor.)
- Merchant, Samuel Y., Boston, Mass. Lady's garment. No. 59,562; Nov. 1.
- Mergott, J. E., Company, The. (See Fuller, Franz A., assignor.)
- Merriman, Frederic, Mill Valley, Calif. Advertising device. No. 59,253; Oct. 4.
- Merritt, Edwin A., New York, N. Y., assignor to The Diamond Match Company, Chicago, Ill. Holder for book-matches. No. 57,923; May 17; v. 286; p. 588.
- Mertznanoff, André M., New York, N. Y., assignor to American Radiator Company, Chicago, Ill. Heating apparatus. No. 56,932; Jan. 18; v. 282; p. 534.
- Messina, Samuel, Jamestown, N. Y. Rubber heel. No. 60,048; Dec. 20.
- Mestre, Harold, San Francisco, Calif. Seat. No. 57,142; Feb. 22; v. 283; p. 716.
- Metallic Industries. (See Tully, James K., assignor.)
- Metts, Wallace, assignor to Kingman Manufacturing Company, Stoughton, Mass. Gaiter. Nos. 58,798-800; Aug. 30; v. 289; p. 972.
- Meyer, Felix, assignor to Blanck & Company, Inc., New York, N. Y. Lace. Nos. 58,802-3; Aug. 30; v. 289; p. 973.
- Meyer, Fred G., Detroit, Mich. Siphon-tube holder. No. 59,974; Dec. 13.
- Meyer, Leroy E., Cuyahoga Falls, Ohio, assignor to The Firestone Tire and Rubber Company, Cleveland, Ohio. Tire-tread. No. 58,801; Aug. 30; v. 289; p. 973.
- Meyer, Leroy E., Cuyahoga Falls, assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Rubber heel. No. 56,933; Jan. 18; v. 282; p. 534.
- Meyers, George J., Council Bluffs, Iowa. Tobacco-pipe reamer. No. 60,049; Dec. 20.
- Meyers, J. Nicholas. (See Lo Roche, Charles W., assignor.)
- Meyers, Vernice, Three-Oaks, Mich. Electric-light stand. No. 58,394; July 12; v. 288; p. 379.
- Miami Cycle and Manufacturing Company, The. (See Heise, Roscoe S., assignor.)
- Michaels, Chauncey A., New York, N. Y. Holder for towels and other articles. No. 59,765; Nov. 22.
- Midwest Engine Company. (See Sargent, Charles E., assignor.)
- Mieding, William E., Sr., New Orleans, La. Phonograph-cabinet. No. 58,924; Sept. 6; v. 290; p. 153.
- Millard, Arthur M., assignor to Central Council, Order of the Builders for Boys, Chicago, Ill. Badge, pin, emblem, or similar article. No. 59,254; Oct. 4.
- Miller, Abraham, New York, N. Y. Lighting-fixture arm. No. 58,497; July 26; v. 288; p. 776.
- Miller-Chapman Company. (See Chapman, Earl E., assignor.)
- Miller, Charles H. (See Hollison, J. H., and Miller.)
- Miller, Edward, & Company. (See Wolter, Herman H., assignor.)
- Miller, Edward H., New York, N. Y. Bracelet. No. 57,702; Apr. 26; v. 285; p. 741.
- Miller, Frank L., Jr., Chattanooga, Tenn. Doll. Nos. 59,666-7; Nov. 15.
- Miller, Fred W. (See Meek, B., and Miller.)
- Miller, James, Waterbury, Conn. Duplex buckle. No. 59,766; Nov. 22.
- Miller, John A., Los Angeles, Calif. Windshield. No. 57,703; Apr. 26; v. 285; p. 741.
- Miller, John C., Cincinnati, Ohio. Class pin or emblem. No. 57,704; Apr. 26; v. 285; p. 741.
- Miller, Julius, and D. Macowsky, San Francisco, Calif. Child's rompers. No. 57,367; Mar. 15; v. 284; p. 551.
- Miller, Lee D., New York, N. Y. Bracelet. No. 57,180; Feb. 22; v. 283; p. 722.
- Miller, Pryor L., Plant City, Fla. Service-flag. No. 57,192; Mar. 1; v. 284; p. 145.
- Miller, Robert F., assignor to Parts Corporation, Indianapolis, Ind. Radiator-cap. No. 57,441; Mar. 29; v. 284; p. 914.
- Miller Rubber Company, The. (See Flemming, Charles F., assignor.)
- Miller Rubber Company, The. (See Ofensend, Chase F., assignor.)
- Miller, Thornton F., assignor to Imperial Counsel of the Universe, Princes of Mosera, Pittsburgh, Pa. Badge. No. 59,668; Nov. 15.
- Mills, Herbert S. (See Sandell, Henry K., assignor.)
- Mills, Morris M., San Antonio, Tex. Display-stand. No. 57,705; Apr. 26; v. 285; p. 741.
- Mitchell, Harold C. (See Amsden, Loriston F., assignor.)
- Mitchell, Harold D., Plainfield, N. J., assignor to D. W. Whipple, New York, N. Y. Tire-tread. No. 56,934; Jan. 18; v. 282; p. 534.
- Mitchell, James H., Danville, Ill. Facing-brick. No. 57,368; Mar. 15; v. 284; p. 551.
- Mitchell Vance Co. (See Mathieu, Frederick W., assignor.)
- Mitchell Vance Co. (See Strahan, G. V., and Mathieu, assignors.)
- Mitchell Vance Co. (See Strahan, George V., assignor.)
- Milwaukee Lace Paper Company. (See Holzer, Eugene, assignor.)



- Minnis, George F., Chicago, Ill., assignor to National Safety Window Device Company. Anchor for safety-harness. Nos. 59,026-7; Sept. 13; v. 290; pp. 385-6.
- Minton, Gustave M., New York, N. Y. Ash-tray. No. 58,925; Sept. 6; v. 290; p. 153.
- Minton, Gustave M., New York, N. Y. Smoker's tray. No. 58,926; Sept. 6; v. 290; p. 153.
- Minton, Gustave M., New York, N. Y. Cigarette-holder and ash-tray. No. 58,927; Sept. 6; v. 290; p. 153.
- Mirk, Paul, New York, N. Y. Casing for a radiator air-valve. No. 59,123; Sept. 20; v. 290; p. 592.
- Mitera, Joseph, Plainfield, N. J. Casing for gas-heaters. No. 59,255; Oct. 4.
- Mix, Melville W., Mishawaka, Ind. Phonograph-cabinet. No. 58,156; June 14; v. 287; p. 357.
- Modern, Samuel, and M. Moskowitz, New York, N. Y. Suitcase-handle. No. 57,143; Feb. 22; v. 283; p. 716.
- Moerser, Otto E., assignor to The Wisconsin Chair Company, Port Washington, Wis. Study-chair. No. 58,613; Aug. 2; v. 289; p. 139.
- Moffat, Frederick W., Weston, Ontario, Canada. Insulator-support for electrical heating elements. No. 58,804; Aug. 30; v. 289; p. 973.
- Moffat, Frederick W., Weston, Ontario, Canada. Insulator-porcelain for electric ovens. Nos. 58,805-6; Aug. 30; v. 289; p. 974.
- Moffat, Frederick W., Weston, Ontario, Canada. Refractory floor member for electric furnaces. No. 59,256; Oct. 4.
- Moffat, Frederick W., Weston, Ontario, Canada. Refractory roof member for electric furnaces. No. 59,257; Oct. 4.
- Moffat, Frederick W., Weston, Ontario, Canada. Sectional support for electric heating elements. Nos. 59,369-70; Oct. 11.
- Mohler, Vernie H., Indianapolis, Ind. Doll's head. No. 60,050; Dec. 20.
- Mohrmann, Paul, assignor to Friedley-Voshardt Co., Chicago, Ill. Frame for lanterns. No. 59,006; Dec. 6.
- Mojonner Bros. Co. (See Mojonner, Julius J., assignor.)
- Mojonner, Julius J., Oak Park, assignor to Mojonner Bros. Co., Chicago, Ill. Bottle. No. 57,479; Apr. 5; v. 285; p. 157.
- Monk, Thomas, Bridgeport, Conn., assignor to The American Fabrics Company, Lacey, Nos. 59,258-60; Oct. 4.
- Monkhouse, Frederick C., Rochester, N. Y. Rattle. No. 58,157; June 14; v. 287; p. 357.
- Montgomery, Herbert J. (See Durney, L. M., and Montgomery.)
- Montrose Glove Inc., The. (See Eisenstein, Harry, assignor.)
- Moody, Roy, Newton, N. H. Toy. Nos. 59,504-5; Oct. 25.
- Mooney, Charles S., Grand Rapids, Mich. Hearse-body. No. 58,249; June 28; v. 287; p. 734.
- Moore, Claudia, Seattle, Wash. Set of alphabet-cards. No. 56,985; Jan. 25; v. 282; p. 688.
- Moore, Jacob L., Muncie, Ind. Bed-spring. No. 58,158; June 14; v. 287; p. 358.
- Moore, Jesse C., assignor to Columbia School Supply Company, Indianapolis, Ind. Chair-desk. No. 57,369; Mar. 15; v. 284; p. 551.
- Moore, Jesse C., assignor to Columbia School Supply Company, Indianapolis, Ind. Chair-desk. No. 60,051; Dec. 20.
- Moore, William H., Jr., Little Rock, Ark. Emblem, badge, or similar article to be applied to ties, shirts, and similar articles of wearing-apparel. No. 58,928; Sept. 6; v. 290; p. 153.
- Moorhouse, Walter, West New York, N. J. Cushion-hammer. No. 57,706; Apr. 26; v. 285; p. 741.
- Moran & Macnair Inc. (See Hughes, Roland T., assignor.)
- Morar, Alex., Omaha, Nebr. Necktie or similar article. No. 59,563; Nov. 1.
- Morelle, Alvin, Doylestown, Pa. Talking-machine cabinet or casing. No. 59,689; Nov. 15.
- Morgan, Alfred P., Montclair, N. J. Instrument-mount for radioplan. No. 58,808; Aug. 30; v. 289; p. 974.
- Morgan, Delevan F., Chicago, Ill. Power-transmitting belt. No. 57,144; Feb. 22; v. 283; p. 716.
- Morgan, Louise, Los Angeles, Calif. Dress-apron. No. 57,250; Mar. 8; v. 284; p. 332.
- Morgan & Wright. (See Lumber, Edwin F., assignor.)
- Morimura Bros. (See Kotato, Teiji, assignor.)
- Morley, Samuel I., assignor to The Sebring Pottery Company, Sebring, Ohio. Plate or similar article. No. 58,040; May 31; v. 286; p. 1015.
- Morreau Company, The. (See Maerz, Frederick K., assignor.)
- Morrill, Gertrude M., San Francisco, Calif. Display-fixture. No. 58,098; June 7; v. 287; p. 157.
- Morris, Harry, Chicago, Ill. Display-cabinet. Nos. 60,052-3; Dec. 20.
- Morris, Harry, Chicago, Ill. Advertising device. No. 60,054; Dec. 20.
- Morrison, James C., Highland Park, assignor to Nyal Company, Detroit, Mich. Jar or similar container. No. 57,707; Apr. 26; v. 285; p. 741.
- Morrison, Ralph W., Omaha, Nebr. Cabinet for phonographs. No. 58,614; Aug. 2; v. 289; p. 139.
- Morse, Leo, New York, N. Y. Doll. No. 57,251; Mar. 8; v. 284; p. 333.
- Morse, Leo, New York, N. Y. Chain rattle. No. 58,159; June 14; v. 287; p. 358.
- Morse, Leo, New York, N. Y. Rattle. No. 58,160; June 14; v. 287; p. 358.
- Morse, Waldo G., Yonkers, N. Y. Sound-box casing. No. 58,615; Aug. 2; v. 289; p. 140.
- Mortensen, August, and M. L. Higley, San Francisco, Calif. Song-whistle. No. 56,986; Jan. 25; v. 282; p. 688.
- Morton, Albert L., Springfield, Ill. Toilet-chair. No. 59,126; Sept. 20; v. 290; p. 593.
- Mosauer, Harry D., assignor to Tuskeloid Company, Inc., New York, N. Y. Back for a brush, mirror, or the like. No. 58,678; Aug. 9; v. 289; p. 371.
- Mosauer, Harry D., assignor to Tuskeloid Company, Inc., New York, N. Y. Handle for toilet articles. No. 58,679; Aug. 9; v. 289; p. 371.
- Mosauer, Harry D., assignor to Tuskeloid Company, Inc., New York, N. Y. Comb. No. 58,680; Aug. 9; v. 289; p. 371.
- Mosauer, Harry D., assignor to Tuskeloid Company, Inc., New York, N. Y. Top, bottom, or the like for a toilet-receptacle. No. 59,022; Sept. 13; v. 290; p. 384.
- Moser, John D., Hamilton, Ontario, Canada. Clamp for holding partitions, &c., in showcases and the like. No. 59,670; Nov. 15.
- Moses, Lionel, assignor to Gorham Manufacturing Company, Providence, R. I. Handle for spoons, forks, or similar articles. No. 58,099; June 7; v. 287; p. 157.
- Mosgrove, Charles A., Watertown, Conn., assignor to The Autoyre Company. Tumbler-holder. No. 57,989; May 24; v. 286; p. 802.
- Moskowitz, Max. (See Modern, S., and Moskowitz.)
- Mosman, Charles S., Bridgeport, Conn., assignor to The Jennings Brothers Manufacturing Company. Base for a crucifix, candlestick, or similar article. Nos. 58,809-14; Aug. 30; v. 289; pp. 975-6.
- Mowitz Albert T., New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Phonograph-cabinet. No. 58,250; June 28; v. 287; p. 734.
- Mount Vernon Company, Silversmiths, The. (See Roth, August J., assignor.)
- Mueller, Adolph, trustee. (See Mueller, Philip, assignor.)
- Mueller, Charles O., assignor to Lamkay & Seaman, Inc., New York, N. Y. Cloth. No. 59,671; Nov. 15.
- Mueller, Philip, Decatur, Ill. Basin-fitting. No. 57,193; Mar. 1; v. 284; p. 145.
- Mueller, Philip, assignor to A. Mueller, trustee, Decatur, Ill. Water-fixture. Nos. 56,935-6; Jan. 18; v. 282; p. 534.
- Mueller, Rudolph, Chicago, Ill. Container for a liquid-dispenser. No. 59,672; Nov. 15.
- Muir, Robert, assignor to Hood Rubber Company, Watertown, Mass. Non-skid tread for automobile-tires. No. 57,059; Feb. 1; v. 283; p. 134.
- Muller, Alphons G., and C. McMullen, Flemington, N. J. Lens. No. 58,616; Aug. 2; v. 289; p. 140.
- Muller, Max, New York, N. Y. Hair fringe. No. 59,261; Oct. 4.
- Mullvain, E. E., et al., trustees. (See Mullvain, Earnest E., assignor.)
- Mullvain, Earnest E., Berkeley, Calif., assignor to E. C. Streich, M. C. Streich, J. E. Manning, E. E. Mullvain, and V. A. Shafer, trustees. Automobile-signal. No. 57,060; Feb. 1; v. 283; p. 134.
- Mullvain, Earnest E., Berkeley, Calif., assignor to E. C. Streich, M. C. Streich, J. E. Manning, E. E. Mullvain, and V. A. Shafer, trustees for National Auto Signal Company. Automobile-signal. No. 57,708; Apr. 26; v. 285; p. 742.
- Mullvain, Earnest E., Berkeley, Calif., assignor to E. C. Streich, M. C. Streich, J. E. Manning, E. E. Mullvain, and Van A. Shafer, trustees for the National Auto Signal Company. Automobile-signal. No. 57,850; May 10; v. 286; p. 375.
- Multrone, Robert, Camperdown, Sydney, New South Wales, Australia. Toy horse with jockey. No. 58,251; June 28; v. 287; p. 734.
- Multiplex Display Fixture Company. (See Crecelius, Theodore E., assignor.)
- Mumford, John W., Philadelphia, Pa. Rug and carpet holder. No. 57,370; Mar. 15; v. 284; p. 551.
- Munich, Stefan, Flushing, N. Y. Goblet or similar article. No. 58,197; June 21; v. 287; p. 550.
- Munnell, Alton F. (See La Tour, L., and Munnell.)
- Murcury Body Corporation. (See McCormick, Charles E., assignor.)
- Murphy, John. (See Pederson, A. M., and Murphy.)
- Murphy, William J., Cedar Falls, Iowa. Tire-tread. Nos. 59,124-5; Sept. 20; v. 290; p. 593.
- Murray, Francis T., Chicago, Ill. Clothesline-holder. No. 59,427; Oct. 18.
- Murray, Thomas E., Jr., Brooklyn, N. Y. Meter-box. No. 60,055; Dec. 20.
- Myers, Earl W., New York, N. Y. Handle for pliers or similar gripping-surfaces. No. 57,252; Mar. 8; v. 284; p. 333.
- Myers, Earl W., New York, N. Y. Ornamentation for plier-handles or similar tools. No. 59,506; Oct. 25.
- Myers, F. E., and Brother. (See Myers, Philip A., assignor.)



## Alphabetical list of patentees of designs—Continued.

- Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Pump-casing. No. 57,371; Mar. 15; v. 284; p. 551.
- Mynol Chemical Company, The. (See Hurtt, Spencer M., assignor.)
- Nahm, Emil H., assignor to The Ideal Tire and Rubber Company, Cleveland, Ohio. Vehicle-tire. No. 57,709; Apr. 26; v. 285; p. 742.
- Nakamura, Tokuji, San Leandro, Calif. Motor-fan. No. 59,975; Dec. 13.
- Nakian, Reuben, West Hoboken, N. J. Toy broom. No. 59,855; Nov. 29.
- Namiot, Charles B., New York, N. Y. Wedding-ring. No. 58,617; Aug. 2; v. 289; p. 140.
- Namiot, Charles B., New York, N. Y. Wedding-ring. No. 58,815; Aug. 30; v. 289; p. 976.
- National Carbon Company. (See Arnoll, Arthur G., assignor.)
- National Drug Stores Corporation. (See Seymour, Charles H., assignor.)
- National Enameling & Stamping Company. (See Kleckhefer, Alfred J., assignor.)
- National Lace & Embroidery Company. (See Schmid, Werner, assignor.)
- National Ring Traveler Co. (See Wentworth, Phillip C., assignor.)
- National Safety Window Device Company. (See Minnis, George F., assignor.)
- National Veneer Products Company. (See Dodge, William W., assignor.)
- National Wood Renovating Company. (See Haynes, William J., Jr., assignor.)
- National X-Ray Reflector Co. (See Snow, Wilmer S., assignor.)
- Naumann, Hermann C., assignor to Peninsular Stamping Company, Detroit, Mich. Securing-clip for springs. No. 57,851; May 10; v. 286; p. 376.
- Neilinger, Samuel, New York, N. Y. Trimming for ladies' wearing-apparel. Nos. 59,856-9; Nov. 29.
- Nelson, Charles, Hoffman, Minn. Wrecking-bar. No. 59,371; Oct. 11.
- Nelson, Mark B., Los Angeles, Calif. Child's coaster. No. 56,987; Jan. 25; v. 282; p. 689.
- Nelson, William J., assignor to J. P. Gordon, Rockford, Ill. Belt-buckle. No. 59,860; Nov. 29.
- Nesmith, Florence, Tewksbury, Mass. Garment. No. 58,929; Sept. 6; v. 290; p. 153.
- Nettleton, Clark, Seattle, Wash. Flag, pennant, emblem, or article of a similar nature. No. 58,395; July 12; v. 288; p. 379.
- Neuer, Leo R. (See Clark, E. R., and Neuer.)
- Neugebauer, Conrad, Columbus, Ohio. Bath-mitten. No. 58,930; Sept. 6; v. 290; p. 154.
- Neuswanger, William, Glenwood Springs, Colo. Pen and pencil clip blank. No. 58,618; Aug. 2; v. 289; p. 140.
- Nevius, George H., East Orange, N. J., assignor to Hugo Schneider, Tarrytown, N. Y. Surface ornamentation of an article of manufacture. No. 58,161; June 14; v. 287; p. 358.
- New Castle Rubber Company. (See Ramsthaler, William H., assignor.)
- New England Tire and Rubber Company. (See Culp, George K., assignor.)
- New Era Toy Manufacturing Company. (See Kern, Charles J., assignor.)
- New Jersey Patent Company. (See Aimone, Raimondo C., assignor.)
- New Jersey Patent Company. (See Durand, Nelson C., assignor.)
- Newell, Louis B., assignor to Carr-Lowrey Glass Company, Baltimore, Md. Bottle. No. 59,767; Nov. 22.
- Newell, Peter S. H., Leonia, N. J., assignor to The Diamond Toy Corporation, Wilmington, Del. Figure toy. Nos. 57,924-5; May 17; v. 286; p. 586.
- Newland, Barnet, New York, N. Y. Combined chandelier stem and distributor. No. 57,710; Apr. 26; v. 285; p. 742.
- Newland, Isidor, New York, N. Y., assignor to Eclipse Light Company. Chandelier. Nos. 58,931-6; Sept. 6; v. 290; pp. 154-5.
- Newman, Arthur S. (See Oster, John H., assignor.)
- Newton, Alfred J., Providence, R. I. Collar-holder. No. 57,711; Apr. 26; v. 285; p. 742.
- Newton, Alfred J., Providence, R. I. Collar-holder. No. 58,100; June 7; v. 287; p. 157.
- Newton, Richard T., New York, N. Y. Bumper-bar. No. 57,712; Apr. 26; v. 285; p. 742.
- Niagara Textile Company. (See Ransom, H. L., and Emerson, assignors.)
- Nichols, Orville L. (See Elliott, C. E., and Nichols.)
- Nichols, Orville O. (See Elliott, C. E., and Nichols, assignors.)
- Nissen, John P., Philadelphia, Pa. Hosiery. No. 57,540; Apr. 12; v. 285; p. 345.
- Nissley, Simon P., Chicago, Ill. Seat. No. 59,907; Dec. 6.
- Nissley, Simon P., Chicago, Ill. Toy. No. 59,908; Dec. 6.
- Nixon, Miles G., Chicago, Ill. Pistol-guide. No. 59,861; Nov. 29.
- Noble, Edward J., Port Chester, N. Y. Medicinal tablet, candy, chewing-gum, or article of similar nature. Nos. 59,909-11; Dec. 6.
- Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Article of hollow ware. Nos. 56,937-8; Jan. 18; v. 282; pp. 534-5.
- Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Dish or similar article. No. 56,939; Jan. 18; v. 282; p. 535.
- Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Article of hollow ware. No. 56,940; Jan. 18; v. 282; p. 535.
- Noe, William R., & Sons. (See Roettges, Frederick, assignor.)
- Norden, Mortimer, New York, N. Y. Electric sign. No. 57,852; May 10; v. 286; p. 376.
- Norden, Mortimer, New York, N. Y. Electric sign. No. 59,029; Sept. 13; v. 290; p. 386.
- Norman, Ernest, and R. R. Ames, New York, N. Y. Bag-frame. No. 59,030; Sept. 13; v. 290; p. 386.
- Norris, Paul E., Forest Hill borough, Pa. Hold-down-plate for batteries. No. 59,028; Sept. 13; v. 290; p. 386.
- Norskov, Thomas M., Loretto, Nebr. Picture-frame. No. 57,253; Mar. 8; v. 284; p. 333.
- North American Lace Company. (See Bromley, Henry S., assignor.)
- North American Lace Company. (See Daudy, Marc H., assignor.)
- North American Lace Company. (See Holt, George, assignor.)
- North East Electric Company. (See Lee, Thomas L., assignor.)
- Northern Specialty Company. (See Breitenstein, M. J., and Martin, assignors.)
- Norwood, Harry G., assignor to W. A. Fuld, Baltimore, Md. Seat-body for children's vehicles. No. 58,041; May 31; v. 286; p. 1016.
- Nourse, Walter E., Boston, Mass., assignor to The Bryant Electric Company, Bridgeport, Conn. Plug-contact device. No. 57,713; Apr. 26; v. 285; p. 742.
- Novelty Cup & Cone Company. (See Winder, Samuel E., assignor.)
- Nowack, Charles H., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Talcum-powder can. Nos. 57,853-5; May 10; v. 286; p. 376.
- Nu-Cord Rubber Company. (See Brubaker, William A., assignor.)
- Nu-Ex Fire Appliance Company, The. (See Bargar, Frederick C., assignor.)
- Nyal Company. (See Morrison, James C., assignor.)
- Ober, Katharine H., Baltimore, Md. Loving-cup. No. 59,507; Oct. 25.
- O'Blaza, Walter, Chicago, Ill. Palm-stand. No. 57,145; Feb. 22; v. 283; p. 716.
- O'Brien, James E., Hinton, W. Va. Combination ash-tray and cigar-holder. No. 57,541; Apr. 12; v. 285; p. 346.
- O'Brien, John C., St. Louis, Mo. Watch-chain. No. 57,146; Feb. 22; v. 283; p. 716.
- O'Brien, John C., St. Louis, Mo. Wedding-ring. No. 59,768; Nov. 22.
- Odell, George W., assignor to International India Rubber Corporation, South Bend, Ind. Tire-casing. No. 57,926; May 17; v. 286; p. 586.
- Odell, George W., assignor to International India Rubber Corporation, South Bend, Ind. Tire-casing. No. 59,673; Nov. 15.
- Odell, George W., assignor to International India Rubber Corporation, South Bend, Ind. Tire-tread. No. 59,674; Nov. 15.
- Oehmann, Andrew, Washington, D. C. Game-board. No. 58,937; Sept. 6; v. 290; p. 155.
- Ofensend, Chase F., assignor to The Miller Rubber Company, Akron, Ohio. Tire. No. 57,480; Apr. 5; v. 285; p. 157.
- Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
- Ohio Brass Company, The. (See Bovard, William P., assignor.)
- Ohio Brass Company, The. (See Brown, John R., assignor.)
- Ohki, Shinzo, Chicago, Ill. Bottle. No. 57,147; Feb. 22; v. 283; p. 717.
- Ohm, Albert J. D., Astoria, assignor to Lion Electric Appliance Co., Inc., New York, N. Y. Lighting-fixture hook. No. 57,194; Mar. 1; v. 284; p. 145.
- Ohm, Albert J. D., assignor to Lion Electrical Appliance Co., Inc., New York, N. Y. Lighting-fixture bracket back. No. 57,254; Mar. 8; v. 284; p. 333.
- Ohm, Albert J. D., assignor to Lion Electric Appliance Co., Inc., New York, N. Y. Lighting-fixture arm. No. 57,255; Mar. 8; v. 284; p. 333.
- Ohm, Albert J. D., assignor to Lion Electric Appliance Co., Inc., New York, N. Y. Chandelier-band. No. 57,256; Mar. 8; v. 284; p. 333.
- Ohm, Albert J. D., Astoria, assignor to Lion Electric Appliance Co., Inc., New York, N. Y. Lighting-fixture canopy. No. 58,252; June 28; v. 287; p. 734.
- Olagubel, Juan, Mexico, Mexico. Statuette. No. 58,396; July 12; v. 283; p. 380.
- Olbon, John A., Paterson, N. J. Steering-post lock. No. 59,564; Nov. 1.
- Old Colony Trust Company, et al., executors. (See Roberts, Fred H.)



- Oldfield Tire Company, The. (See Bollinger, Frederick A., assignor.)
- Oldfield Tire Company, The. (See Wiener, Martin L., assignor.)
- Olson, Laves. (See Graves, Clarence L., assignor.)
- Oliver, Huldah O., Portland, Oreg. Doll. No. 60,056; Dec. 20.
- Ollis, Harry F., East Lexington, Mass. Bracket for pillow-sham holders. No. 58,619; Aug. 2; v. 289; p. 140.
- Olson, John, Delavan, Ill. Tire. No. 57,856; May 10; v. 286; p. 376.
- Order of the Eastern Star, State of New York. (See Pond, Annie M., assignor.)
- O'Rourke, Clement D., Dayton, Ohio. Combined newspaper-vending box and trash-receptacle. No. 58,816; Aug. 30; v. 289; p. 976.
- Orsenigo, Henry, Mount Vernon, N. Y. Phonograph-cabinet. Nos. 57,081-94; Feb. 8; v. 283; pp. 324-6.
- Orsenigo, Henry, Mount Vernon, N. Y. Phonograph-cabinet. No. 57,857; May 10; v. 286; p. 377.
- Orwit, John P., Big Bay, Mich. Toy. No. 59,675; Nov. 15.
- Osborn-Crew Manufacturing Company, The. (See Rose Samuel L., assignor.)
- Osborne, William T., Salem, assignor to The George H. Bowman Company, Cleveland, Ohio. Ornamentation for an article of manufacture. Nos. 57,411-12; Mar. 22; v. 284; p. 723.
- Osgood, John L., Buffalo, N. Y. Hand-grip for a file or similar article. Nos. 58,620-3; Aug. 2; v. 289; pp. 140-1.
- Oster, John H., assignor to A. S. Newman, Cleveland, Ohio. Cuff-button. No. 59,372; Oct. 11.
- Otis, Robert W. (See Patten, C. H., and Otis.)
- Ouzoun-Boghossian, Sissak K., Washington, D. C. Grille for talking-machines. No. 57,372; Mar. 15; v. 284; p. 552.
- Ouzoun-Boghossian, Sissak K., Washington, D. C. Clock-case. No. 57,373; Mar. 15; v. 284; p. 552.
- Ouzoun-Boghossian, Sissak K., Washington, D. C. Grille for talking-machines. Nos. 57,374-5; Mar. 15; v. 284; p. 552.
- Ouzoun-Boghossian, Sissak K., Washington, D. C. Grille for talking-machines. Nos. 57,481-2; Apr. 5; v. 285; p. 157.
- Ouzoun-Boghossian, Sissak K., Washington, D. C. Grille for talking-machines. Nos. 57,714-17; Apr. 26; v. 285; p. 743.
- Ouzoun-Boghossian, Sissak K., Washington, D. C. Grille for talking-machines. No. 57,783; May 3; v. 286; p. 155.
- Ouzoun-Boghossian, Sissak K., Washington, D. C. Talking-machine cabinet. No. 57,990; May 24; v. 286; p. 802.
- Ouzoun-Boghossian, Sissak K., Washington, D. C. Watch-movement case. No. 58,498; July 26; v. 288; p. 776.
- Ouzoun-Boghossian, Sissak K., Washington, D. C. Phonograph-cabinet. No. 58,499; July 26; v. 288; p. 777.
- Ouzoun-Boghossian, Sissak K., Washington, D. C. Grille for phonograph-cabinets and organs. No. 58,624; Aug. 2; v. 289; p. 141.
- Owen, Richard B. (See Colvin, Walter M., assignor.)
- Owen, Richard B., Washington, D. C. Electric-storage-battery container. No. 58,938; Sept. 6; v. 290; p. 155.
- Packard Motor Car Company. (See Walker, Frederick W., assignor.)
- Packer, Mortimer L., Columbus, Ohio. Gas-heater. No. 60,057; Dec. 20.
- Page, Arden C., assignor to The Lucky Star Manufacturing Company, Cincinnati, Ohio. Incense-lozenge. No. 59,565; Nov. 1.
- Pace, Samuel H., Stratford, Conn. Lace. Nos. 59,266-7; Oct. 4.
- Pace, Samuel H., Stratford, Conn., assignor to The American Fabrics Company, Lace. Nos. 59,262-5; Oct. 4.
- Pace, Samuel H., Stratford, Conn., assignor to The American Fabrics Company, Lace. Nos. 59,912-19; Dec. 6.
- Page, Victor W., New York, N. Y. Motor-vehicle radiator. No. 57,784; May 3; v. 286; p. 155.
- Page, Victor W., Kew Gardens, N. Y. Automotive vehicle. No. 58,253; June 28; v. 287; p. 735.
- Paine, George H., Rockville Center, N. Y. Confectionery or chewing-gum unit. No. 58,042; May 31; v. 286; p. 1016.
- Paletou, Leon S., Orange, N. J., assignor to Westinghouse Lamp Company. Dispensing-cabinet. No. 59,862; Nov. 29.
- Palliser, Leonard, assignor to himself and F. Teltsch, New York, N. Y. Bracelet. No. 57,991; May 24; v. 286; p. 802.
- Palm Craft Company, The. (See Smith, James, assignor.)
- Palmberg, Stone G. (See Quandee, A. A., and Palmberg.)
- Palmberg, Stone G., Chicago, Ill. Combination cutlery article. No. 58,817; Aug. 30; v. 289; p. 976.
- Palmer, Charles R., Cincinnati, Ohio. Puzzle device. No. 58,625; Aug. 2; v. 289; p. 141.
- Pan Motor Company. (See De Smet, Edgard C., assignor.)
- Papale, Joseph L., and G. Campbell, San Francisco, Calif. Lamp. No. 59,061; Sept. 20; v. 290; p. 579.
- Pape, Herman G., New York, N. Y. Housing for phonetic instruments. No. 57,718; Apr. 26; v. 285; p. 743.
- Papoll, Walter, assignor to Simmons Company, Kenosha, Wis. Bedstead end. No. 57,927; May 17; v. 286; p. 586.
- Papp, Emery, assignor of one-half to N. Papp, Cleveland, Ohio. Lamp-stand. No. 56,886; Jan. 4; v. 282; p. 164.
- Papp, Nicholas. (See Papp, Emery, assignor.)
- Pappas, George H., Baltimore, Md. Candy. No. 59,863; Nov. 29.
- Paraffine Companies, The. (See Post, Cornelia M., assignor.)
- Paramount Hosiery Form Drying Co. (See Kelly, Jerry H., assignor.)
- Parella, Anthony, New York, N. Y. Automobile radiator-core. No. 59,976; Dec. 13.
- Paris Toilet Company. (See Reed, John W., assignor.)
- Park, Clarence S., assignor to Corona Cord Tire Company, East Butler, Pa. Rubber tire. No. 58,500; July 26; v. 288; p. 777.
- Parker, George F., assignor to Towle Manufacturing Company, Newburyport, Mass. Article of hollow ware. No. 56,941; Jan. 18; v. 282; p. 535.
- Parker, George F., assignor to Towle Manufacturing Company, Newburyport, Mass. Tray, dish, plate, platter, bowl, compote, or analogous article of hollow ware. No. 56,942; Jan. 18; v. 282; p. 536.
- Parker, J. H., & Son. (See Parker, William M., assignor.)
- Parker, Lyman B., Miami, Okla. Cabinet. No. 59,676; Nov. 15.
- Parker, Martin, assignor to Parker Safety Hitch Company, St. Paul, Minn. Lazy-horse clevis. No. 59,977; Dec. 13.
- Parker, Ralph D., assignor of one-fourth to F. M. Wright and one-fourth to C. J. Chunn, San Francisco, Calif. Windshield-wing. No. 59,428; Oct. 18.
- Parker Safety Hitch Company. (See Parker, Martin, assignor.)
- Parker, William M., assignor to J. H. Parker & Son, Incorporated, Parkersburg, W. Va. Plural socket. No. 59,769; Nov. 22.
- Parkford, Edwin A., *et al.* (See Williams, Ardie, assignor.)
- Perrault, Joseph E., Northampton, Mass. Toothbrush. No. 59,127; Sept. 20; v. 290; p. 593.
- Parrish, Rial T. (See McNabb, H. J., and Parrish.)
- Parsons, Irving R., Chicago, Ill. Receptacle. No. 58,254; June 28; v. 287; p. 735.
- Partenheimer, Harold P. (See Gourley, R. P., and Partenheimer.)
- Parts Corporation. (See Miller, Robert F., assignor.)
- Pascal, Annette S. (See Tyler, H., and Pascal.)
- Pascucci, Emilio. (See Manuel, W. N., and Pascucci.)
- Pastir, Frank B., Barberton, Ohio. Toy balloon. Nos. 59,864-5; Nov. 29.
- Paternostro, Luca, Dallas, Tex. Heel-brace for shoes. Nos. 59,866-7; Nov. 29.
- Patremio, Martin, Lodi, N. J. Baby's rattle. No. 56,887; Jan. 4; v. 282; p. 164.
- Patsy Frok & Romper Co. (See Zidell, Martha L., assignor.)
- Patten, Charles H., and R. W. Otis, Providence, R. I. Clip. No. 59,677; Nov. 15.
- Patten, John H., Seattle, Wash. Vehicle-tire. No. 57,376; Mar. 15; v. 284; p. 552.
- Patterson, John M., Rochester, N. Y. Automobile license-plate. No. 59,374; Oct. 11.
- Paul, Archibald W., assignor to Wheeling Stamping Company, Wheeling, W. Va. Percolator. No. 58,818; Aug. 30; v. 289; p. 977.
- Paul, Wallace H., Birmingham, assignor to The Dunlop Rubber Company, Limited, London, England. Tire-tread. No. 57,377; Mar. 15; v. 284; p. 552.
- Paul, Wallace H., Birmingham, assignor to The Dunlop Rubber Company, Limited, London, England. Tire-tread. No. 59,268; Oct. 4.
- Paulson, Arthur, New York, N. Y. Letter-file. No. 59,508; Oct. 25.
- Pawsat, Ewald F., Sheboygan, Wis. Mud-guard brace. No. 57,378; Mar. 15; v. 284; p. 553.
- Payne, Charles H., Cincinnati, Ohio. Key-ring. No. 57,928; May 17; v. 286; p. 587.
- Pease, Ephraim S., Buffalo, N. Y. Iceless refrigerant. No. 58,501; July 26; v. 288; p. 777.
- Pense, Ephraim S., Buffalo, N. Y. Lamp-stand. No. 59,979; Dec. 13.
- Peat, Sidney H., and J. B. Johnston, Kansas City, Mo. Statuette. No. 58,397; July 12; v. 288; p. 380.
- Peck, Charles H., Philadelphia, Pa. Ignition-tester and spark-gap. No. 59,509; Oct. 25.
- Peck, Mark A., Chicago, Ill. Stand. No. 57,061; Feb. 1; v. 283; p. 134.
- Peck, William A., assignor to The Simpson-Peck Manufacturing Company, New Haven, Conn. Nail-set. No. 58,502; July 26; v. 288; p. 778.
- Pederson, Alexander M., and J. Murphy, Duluth, Minn. Antiskid cross-chain. No. 59,510; Oct. 25.
- Pelgram & Meyer. (See Frank, David C., assignor.)
- Peloquin, Frank E., Providence, R. I. Finger-ring. No. 59,605; Nov. 8.
- Pelton, Clyde S., Cleveland Heights, Ohio. Vehicle-heater casing. No. 57,148; Feb. 22; v. 283; p. 717.
- Peninsular Stamping Company. (See Naumann, Hermann C., assignor.)



*Alphabetical list of patentees of designs—Continued.*

- Pennig, Bernard T., St. Paul, Minn. Mail-box. No. 59,269; Oct. 4.
- Pennock, Homer H., New York, N. Y. Advertising-disk. No. 58,101; June 7; v. 287; p. 157.
- Pennsylvania Sales and Export Co. (See Waggoner, Albertus B., assignor.)
- Penton, Carl T., Detroit, Mich. Transmission-case for a tractor. No. 58,626; Aug. 2; v. 289; p. 142.
- Percy, Richard, Chicago, Ill. Patriot emblem, emblazoned or illuminated placard, flag, pennant, banner, or article of similar nature. No. 58,448; July 19; v. 288; p. 571.
- Perfecite Manufacturing Company. (See Heide, Carl H., assignor.)
- Perfection Tire & Rubber Company. (See Dickinson, Fredrick S., assignor.)
- Perrone, Eduardo, Gloversville, N. Y. Glove. No. 58,627; Aug. 2; v. 289; p. 142.
- Peshkin, William, New York, N. Y. Case for pencils. No. 58,398; July 12; v. 288; p. 380.
- Peterke, Edward C., Fairchild, Iowa. Portable case having compartments for stationery supplies. No. 59,270; Oct. 4.
- Petersen, Arno H., Milwaukee, Wis. Electric drill. No. 59,678; Nov. 15.
- Petersen, Frederik, New York, N. Y. Coin-purse. No. 60,058; Dec. 20.
- Petersen, Ludvig T., assignor to The Republic Rubber Corporation, Youngstown, Ohio. Tire-casing. Nos. 57,257-61; Mar. 8; v. 284; pp. 334-35.
- Peterson, Johann G., Hartford, Conn. Cap for an electrical attachment-plug. No. 56,943; Jan. 18; v. 282; p. 536.
- Petry, Nicholas A., Philadelphia, Pa. Handle. No. 59,920; Dec. 6.
- Pevny, Emil, Oswego, N. Y. Glove. No. 59,679; Nov. 15.
- Pfeffer, Clarice, San Jose, Calif. Child's suit. No. 56,988; Jan. 25; v. 282; p. 689.
- Pfeffer, Genevieve, San Jose, Calif. Decoration of a cigarette. No. 57,262; Mar. 8; v. 284; p. 335.
- Pfeffer, Genevieve, San Jose, Calif. Apron. No. 57,992; May 24; v. 286; p. 803.
- Pfeiffer, Frederick, Sr., Brooklyn, N. Y. Dish or similar receptacle. No. 57,719; Apr. 26; v. 285; p. 743.
- Pfeiffer, William L., assignor to W. J. Woerner, Rochester, N. Y. Disk wheel. No. 59,375; Oct. 11.
- Pfuger, Charles T., assignor to The Enterprise Manufacturing Co., Akron, Ohio. Surface ornamentation for the body of an artificial-minnow bait. No. 57,858; May 10; v. 286; p. 377.
- Phelps, George H. (See Mayer, M. I., and Phelps.)
- Philadelphia Storage Battery Company. (See Davis, E., and Holland, assignors.)
- Phillips, Ernest, assignor to The Yale Tire & Rubber Co., New Haven, Conn. Tire. No. 59,511; Oct. 25.
- Phillips, Frank, Brooklyn, N. Y. Shoe. No. 59,031; Sept. 13; v. 29; p. 386.
- Phillips, Hans A., Stratford, Conn., assignor to The American Fabrics Company. Lace. Nos. 59,271-2; Oct. 4.
- Phillips, Hans A., Stratford, Conn., assignor to The American Fabrics Company. Lace. Nos. 59,921-3; Dec. 6.
- Phillips, Jack P., and A. C. Ahl, Philadelphia, Pa. Chalk-sharpener. No. 56,989; Jan. 25; v. 282; p. 689.
- Phillips, Ross M. G., New Haven, Conn., assignor to P. P. Fallon, New York, N. Y. Vehicle toy. No. 58,255; June 28; v. 287; p. 735.
- Phinney, Elisha A., Pawtucket, R. I. Watch-bow. No. 59,868; Nov. 29.
- Pick, Albert, & Company. (See Kellogg, Edmund P., assignor.)
- Pick, Albert & Company. (See Sehlbach, Albert E., assignor.)
- Pick, Albert, and Company. (See Pick, Hugo, assignor.)
- Pick, Hugo, assignor to Albert Pick and Company, Chicago, Ill. Sundae-cup holder. No. 57,720; Apr. 26; v. 285; p. 743.
- Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)
- Pieper, Oscar H. and A. F., Rochester, N. Y. Casing for electric switches. No. 58,681; Aug. 9; v. 289; p. 372.
- Pieper, Oscar H. and A. F., Rochester, N. Y. Dental-appliance panel. No. 58,819; Aug. 30; v. 289; p. 977.
- Pieper, Oscar H. and A. F., Rochester, N. Y. Panel for dental appliances. No. 58,939; Sept. 6; v. 290; p. 156.
- Pieper, Oscar H. and A. F., Rochester, N. Y. Standard for X-ray apparatus. No. 60,059; Dec. 20.
- Pieper, Oscar H. and A. F. Pieper, Rochester, N. Y. Combined cabinet and standard for X-ray apparatus. No. 60,104; Dec. 27.
- Pierson, Robert M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic-tire tread. No. 59,273; Oct. 4.
- Piggott, James N., Parkersburg, W. Va. Fish-bait. No. 59,770; Nov. 22.
- Pioneer Brand Manufacturing Co. (See Adlman, Louis, assignor.)
- Pioneer Suspender Company. (See Cahn, Tillman, assignor.)
- Pioneer Suspender Company. (See Heimerdinger, Leo H., assignor.)
- Piotrowski, Paul, Altoona, Pa. Wrench. No. 56,945; Jan. 18; v. 282; p. 536.
- Piqua Handle & Manufacturing Company, The. (See Upton, Clifford D., assignor.)
- Pittsburg Transformer Company. (See Bingay, Robert V., assignor.)
- Place, Charles R., Wilmington, Del. Hat. No. 56,990; Jan. 25; v. 282; p. 689.
- Plate, Ernst W., Philadelphia, Pa. Bridge for string musical instruments. No. 59,680; Nov. 15.
- Plate, Ernst W., Philadelphia, Pa. Bridge for string musical instruments. No. 59,771; Nov. 22.
- Plougmann, Niels P., Laurel, Nebr. Staple. No. 58,043; May 31; v. 286; p. 1016.
- Plummer, Solomon, Los Angeles, Calif. Soft-collar fastener. No. 57,721; Apr. 26; v. 285; p. 744.
- Plym, Francis J., Niles, Mich. Desk set. Nos. 59,274-9; Oct. 4.
- Podolsky, Benjamin, New York, N. Y. Cap. No. 59,512; Oct. 25.
- Poe, Ralph W., Canton, Ill. Lamp. No. 58,044; May 31; v. 286; p. 1016.
- Pohl, Charles, assignor to J. O. King, Los Angeles, Calif. Automobile-lock. No. 56,888; Jan. 4; v. 282; p. 165.
- Polacheck, Charles, & Brothers Company. (See Weller, Walter A., assignor.)
- Polanchych, Alexander P., Girardville, Pa. Comb and brush holder. No. 59,280; Oct. 4.
- Polhamus, Kathleen M., South Pasadena, Calif. Hat. No. 56,991; Jan. 25; v. 282; p. 689.
- Polhamus, Kathleen M., South Pasadena, Calif. Bonnet. No. 59,032; Sept. 13; v. 290; p. 387.
- Polhamus, Kathleen M., South Pasadena, Calif. Sunbonnet. No. 59,033; Sept. 13; v. 290; p. 387.
- Pollard, Willard L., Evanston, Ill. Automobile-top. Nos. 59,429-30; Oct. 18.
- Pollard, Willard L., Evanston, Ill. Automobile-panel. Nos. 59,431-2; Oct. 18.
- Polzer, Fridolin, New York, N. Y. Stapling-machine frame. No. 60,105; Dec. 27.
- Pomeroy, Laurence H., Cleveland, Ohio. Combined automobile hood and radiator. No. 57,722; Apr. 26; v. 285; p. 744.
- Pond, Annie M., assignor to Order of the Eastern Star, State of New York, New York, N. Y. Emblem or badge. No. 58,045; May 31; v. 286; p. 1016.
- Pool, Arnold A. (See Busch, Joseph A., assignor.)
- Popper, Isaac C., assignor to The Theroz Company, New York, N. Y. Coffee-urn. No. 57,859; May 10; v. 286; p. 377.
- Popper, Isaac C., assignor to The Theroz Company, New York, N. Y. Can. No. 58,628; Aug. 2; v. 289; p. 142.
- Porcupine Manufacturing Company. (See Steell, Edgar W., assignor.)
- Poritz, Frederick M., New York, N. Y., assignor to Star Chandelier Co., Inc. Chandelier. Nos. 57,785-6; May 3; v. 286; pp. 155-6.
- Poritz, Frederick M., New York, N. Y., assignor to Star Chandelier Co., Inc. Bracket for lighting means. Nos. 57,787-8; May 3; v. 286; p. 156.
- Poritz, Frederick M., New York, N. Y., assignor to Star Chandelier Co., Inc. Pendant for lighting means. No. 57,789; May 3; v. 286; p. 156.
- Poritz, Frederick M., assignor to Star Chandelier Company, New York, N. Y. Lamp-shade. Nos. 58,102-3; June 7; v. 287; pp. 157-8.
- Poritz, Frederick M., assignor to Star Chandelier Company, New York, N. Y. Chandelier. Nos. 58,104-7; June 7; v. 287; p. 158.
- Portage Rubber Co., The. (See Christy, James, assignor.)
- Portage Rubber Company, The. (See Johnson, John T., assignor.)
- Porter, Edwin S., New York, N. Y. Film-reel. No. 57,860; May 10; v. 286; p. 377.
- Porter, Robert W., Mobile, Ala. Chair. No. 57,263; Mar. 8; v. 284; p. 335.
- Porter, Samuel C. (See Cavanaugh, J. P., and Porter.)
- Post, Cornelia M., Philadelphia, Pa., assignor to The Paraffine Companies, Inc., San Francisco, Calif. Linoleum, oilcloth, or floor-covering. Nos. 59,515-22; Oct. 25.
- Post, Ronald W., Mountain Lakes, N. J. Telephone-earpiece. No. 58,682; Aug. 9; v. 289; p. 372.
- Poststada, George, Oakland, Calif. Electric heater. No. 57,542; Apr. 12; v. 285; p. 346.
- Potter & Buffinton Company. (See Weed, Edward L., assignor.)
- Pratt, Benjamin H., Milwaukee, assignor to The Federal Rubber Company, Cudahy, Wis. Vehicle-tire. No. 15,121; June 7; v. 287; p. 149.
- Pratt & Whitney Company. (See Blood, Bryant H., assignor.)
- Press, Jacob, New York, N. Y. Suspender-buckle. No. 56,944; Jan. 18; v. 282; p. 536.
- Press, Jacob, New York, N. Y. Man's garter. No. 59,566; Nov. 1.
- Prétat, Frederick E., Waterbury, assignor to International Silver Co., Meriden, Conn. Handle for a spoon, fork, or similar article. No. 59,376; Oct. 11.
- Price, Claude E., Spokane, Wash. Candy-box. No. 58,449; July 19; v. 28; p. 571.
- Price, John W., assignor to The Delion Tire and Rubber Company, Baltimore, Md. Tire-tread. No. 58,683; Aug. 9; v. 289; p. 372.
- Price, William I. (See Spaniak, Adam, assignor.)



- Priestley, Albert F., Philadelphia, Pa., assignor to Camden City Cut Glass Co., Camden, N. J. Ornamentation for a cut-glass article of manufacture. No. 59,681; Nov. 15.
- Prince, Morris, New York, N. Y. Hat-lining. No. 59,567; Nov. 1.
- Prizer, Charles S., assignor to Somerville Stove Works, Somerville, N. J. Hot-air furnace. No. 57,149; Feb. 22; v. 283; p. 717.
- Proctor, Frederick G., assignor to Proctor-Keefe Company, Detroit, Mich. Truck-cab. No. 59,980; Dec. 13.
- Proctor-Keefe Company. (See Proctor, Frederick G., assignor.)
- Progress Roller Company. (See La Tour L., and Munnell, assignors.)
- Pruzan, Walter E., New York, N. Y. Brassière. No. 59,772; Nov. 22.
- Pulsifer, George H., Haverhill, Mass. Shoe ornament. No. 57,929; May 17; v. 286; p. 587.
- Pult, Casper J., Detroit, Mich. Display-stand. (Reissue.) No. 15,021; Jan. 4; v. 282; p. 157.
- Pult, Casper J., Detroit, Mich. Display-stand. No. 57,442; Mar. 29; v. 284; p. 914.
- Purcell, George A., Baltimore, Md. Toy aeroplane. No. 58,108; June 7; v. 287; p. 158.
- Putnam, Alden L., Detroit, Mich., assignor to Detroit Pressed Steel Company, Wilmington, Del. Vehicle-wheel disk. No. 57,264; Mar. 8; v. 284; p. 335.
- Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Steel Company, Wilmington, Del. Wheel. No. 57,861; May 10; v. 286; p. 377.
- Pyper Animated Sign Company, The. (See Pyper, George R., assignor.)
- Pyper, George R., assignor to The Pyper Animated Sign Company, Salt Lake City, Utah. Alphabet of sign-letters. No. 58,256; June 28; v. 287; p. 735.
- Qua, Arthur M., Grand Rapids, Mich. Vest. No. 58,399; July 12; v. 288; p. 380.
- Quabaug Rubber Company. (See Richards, Thomas G., assignor.)
- Quagliano, Vito A., East Boston, Mass. Lens or similar article. No. 60,106; Dec. 27.
- Quaker Mills, The. (See Lentz, Frederick G., assignor.)
- Quality Silk Mills. (See Horn, William, assignor.)
- Quandee, Alvin A., and S. G. Palmberg, Chicago, Ill. Combination fork and spoon. No. 59,869; Nov. 29.
- Quimby, James F. and M. O., Pawtucket, R. I. Brush. No. 60,107; Dec. 27.
- Quimby, Marion O. (See Quimby, James F. and M. O.)
- Quint, Edgar M., Concord, N. H. Tourist guide-board. No. 59,924; Dec. 6.
- Rabazzana, Hector, Flint, Mich. Can-tester. No. 58,684; Aug. 9; v. 289; p. 372.
- Racine Accessories Manufacturing Co. (See De Tamble, Edward S., assignor.)
- Racine Rubber Company. (See Kraft, Emil J., assignor.)
- Radford, George, Phenix, assignor to Richmond Lace Works, Alton, R. I. Lace. No. 58,503; July 26; v. 288; p. 778.
- Radford, George, Oakland Beach, assignor to Richmond Lace Works, Alton, R. I. Lace. No. 59,281; Oct. 4.
- Raff, Bertram, New York, N. Y. Combination book-cover and book-mark or article of similar nature. No. 59,773; Nov. 22.
- Rafovich, Harry, Buffalo, N. Y. Tire. No. 58,198; June 21; v. 287; p. 550.
- Ramstein, William C., Los Angeles, Calif. Finger-ring. No. 58,820; Aug. 30; v. 289; p. 977.
- Ramsthaler, William H., assignor to New Castle Rubber Company, New Castle, Pa. Non-skid tire. No. 57,265; Mar. 8; v. 284; p. 336.
- Rancol, William T., Oakland, Calif. Tire-rack. No. 58,504; July 26; v. 288; p. 778.
- Ransom, Harry L., and J. E. Emerson, assignors to Niagara Textile Company, Lockport, N. Y. Textile fabric or similar article. No. 59,034; Sept. 13; v. 290; p. 387.
- Rapattoni, Ernest, Los Angeles, Calif. Automobile-body. Nos. 57,723-4; Apr. 26; v. 285; p. 744.
- Rapattoni, Ernest, Los Angeles, Calif. Automobile-body. No. 59,373; Oct. 11.
- Rast, Felix Q., New York, N. Y. Vending-machine casing. No. 60,120; Dec. 27.
- Ratto, Richard C., assignor to Champion Brass Works, Coldwater, Mich. Arm for lighting-fixtures. No. 57,443; Mar. 29; v. 284; p. 914.
- Ray, Loyd W., Wichita, Kans. Vehicle-body. No. 58,257; June 28; v. 287; p. 735.
- Rayburn, Kitty. (See Clyne, R. G., and Rayburn.)
- Rayder, Joseph A., Philadelphia, Pa. Ice-cream spoon. No. 58,685; Aug. 9; v. 289; p. 372.
- Read, Dorothy, Fort Smith, Ark. Doll. No. 59,282; Oct. 4.
- Ream, William A., Morgantown, W. Va. Rubber heel. No. 57,150; Feb. 22; v. 283; p. 717.
- Reckards, Robert P., Great Falls, Mont. Bank-check. No. 59,283; Oct. 4.
- Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Plural lamp-socket. No. 57,930; May 17; v. 286; p. 587.
- Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Handle-cap for whisk-brooms and kindred articles. No. 59,925; Dec. 6.
- Redeker, Robert E., Chicago, Ill. Ring. No. 58,400; July 12; v. 288; p. 380.
- Reed, Burton I., Concord, N. H. Badge or button. No. 59,284; Oct. 4.
- Reed, John W., Chicago, Ill., assignor to Paris Tollet Company, Paris, Tenn. Jar. No. 57,444; Mar. 29; v. 284; p. 914.
- Reeves, John B. (See Smith, Joseph O., assignor.)
- Rogan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Drop-wire for loom stop-motion. No. 58,821; Aug. 30; v. 289; p. 977.
- Regar, Harold D., Reading, Pa. Carbon-holder. No. 58,162; June 14; v. 287; p. 358.
- Rehark, Chauncey C., Cleveland, Ohio. Game apparatus. No. 57,062; Feb. 1; v. 283; p. 135.
- Reichart, James H., Muncie, Ind. Combined fireless-cooker casing and electrical hot-plate. No. 57,266; Mar. 8; v. 284; p. 336.
- Reichenbach, Bernard, New York, N. Y. Box for a set of building-blocks or similar articles. No. 58,940; Sept. 6; v. 290; p. 156.
- Reichert, John, Racine, Wis. Trace-carrier. No. 59,682; Nov. 15.
- Reid, Elmer A., Trenton, N. J., assignor to Ajax Rubber Company, Inc., Millbrook, N. Y. Tire-casing. No. 59,128; Sept. 20; v. 290; p. 593.
- Reinert, Otto, St. Louis, Mo. Vegetable-cutter. No. 58,822; Aug. 30; v. 289; p. 977.
- Reinhart, Ruby L., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 57,543; Apr. 12; v. 285; p. 346.
- Reinhart, Ruby L., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 58,823-5; Aug. 30; v. 289; p. 978.
- Reinsberg, Adolph. (See Wiley, W. F., and Reinsburg.)
- Reith, William G., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 57,267-9; Mar. 8; v. 284; p. 336.
- Reith, William G., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 57,544; Apr. 12; v. 285; p. 346.
- Reith, William G., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 58,505; July 26; v. 288; p. 778.
- Reliable Knitting Works. (See Joha, Elmer N., assignor.)
- Reliable Knitting Works. (See Rosenberg, Samuel, assignor.)
- Reliable Manufacturing Company, The. (See Dalitz, Harry, assignor.)
- Remington Arms Company. (See Fuller, Frederick L., assignor.)
- Republic Rubber Corporation, The. (See Petersen, Ludvig T., assignor.)
- Resor, Stanley, New York, N. Y., assignor, by mesne assignments, to The Andrew Jergens Company, Cincinnati, Ohio. Cake of soap. No. 60,060; Dec. 20.
- Reuhl, Henry, Cincinnati, Ohio. Toy bowling-alley. No. 58,686; Aug. 9; v. 289; p. 372.
- Reuther, John, Hamburg, N. Y. Baby-jumper. No. 58,163; June 14; v. 287; p. 358.
- Reznor, George F., Mercer, Pa. Front of a heating-stove. No. 57,445; Mar. 29; v. 284; p. 914.
- Reznor, George F., Mercer, Pa. Laundry-tub with a cover. No. 60,061; Dec. 20.
- Rice, Irving W., New York, N. Y. Display-case. Nos. 59,870-1; Nov. 29.
- Rice, Richard, assignor of one-half to H. Vivian, Virden, Ill. Fuse cutter and splitter. No. 59,774; Nov. 22.
- Rice, Thurman. (See Maier, J., and Rice.)
- Richard, Francois, Cleveland, Ohio. Wheel. No. 57,725; Apr. 26; v. 285; p. 744.
- Richard, Francois, Cleveland, Ohio. Automobile-radiator. No. 57,726; Apr. 26; v. 285; p. 745.
- Richards, Homer J., assignor to The L. & M. Rubber Company, Carrollton, Ohio. Tire-tread. No. 58,826; Aug. 30; v. 289; p. 978.
- Richards, Thomas G., assignor to Quabaug Rubber Company, Brookfield, Mass. Rubber mat. No. 58,941; Sept. 6; v. 290; p. 156.
- Richards, Thomas G., assignor to Quabaug Rubber Company, Brookfield, Mass. Rubber matting. No. 58,942; Sept. 6; v. 290; p. 156.
- Richardson, A. G., Rochester, and W. J. Atwood, New York, assignors to Richardson Corporation, Rochester, N. Y. Dispensing-cooler for beverages. No. 57,095; Feb. 8; v. 283; p. 326.
- Richardson, Andrew T., assignor to Verona Tool Works, Verona, Pa. Elevation-scale. No. 59,926; Dec. 6.
- Richardson, Andrew T., assignor to Verona Tool Works, Verona, Pa. Inspector's track level and gage. No. 59,927; Dec. 6.
- Richardson Corporation. (See Richardson, A. G., and Atwood, assignors.)
- Richardson Corporation. (See Richardson, D., and Jacoby, assignors.)
- Richardson, Durbin, and C. N. Jacoby, assignors to Richardson Corporation, Rochester, N. Y. Motor-vehicle. No. 58,827; Aug. 30; v. 289; p. 978.
- Richardson, Durbin, and C. N. Jacoby, assignors to Richardson Corporation, Rochester, N. Y. Beverage-dispensing vehicle. No. 58,828; Aug. 30; v. 289; p. 978.
- Richardson, George J., assignor to American Spotless Street System, Inc., Petersburg, Va. Combined trash-receptacle and advertising-carrier. No. 57,379; Mar. 15; v. 284; p. 553.



*Alphabetical list of patentees of designs—Continued.*

- Richardson, George J., and W. Sachs, assignors to American Spotless Street System, Inc., Petersburg, Va. Combined trash-receptacle and advertising-carrier. No. 57,880; Mar. 15; v. 284; p. 553.
- Richardson, Thomas D., Philadelphia, Pa. Candy tablet. No. 59,285; Oct. 4.
- Richert, Emmanuel T., Canton, Ohio. Toy balloon. No. 57,151; Feb. 22; v. 283; p. 717.
- Richert, Emmanuel T., Canton, Ohio. Toy balloon. No. 58,109; June 7; v. 287; p. 159.
- Richmond Lace Works. (See Draycott, Walter, assignor.)
- Richmond Lace Works. (See Radford, George, assignor.)
- Richter, Victor F., Providence, R. I. Set of playing-cards. No. 56,889; Jan. 4; v. 282; p. 165.
- Riddle, Edward N., Co., The. (See Crowell, Frank S., assignor.)
- Rieg, Bernard E., and E. B. Williams, Los Angeles, Calif. Statuette. No. 57,270; Mar. 8; v. 284; p. 336.
- Riegel, Emma B., Brooklyn, assignor to Macoy Publishing & Masonic Supply Co., New York, N. Y. Charm. No. 59,928; Dec. 6.
- Rietz, Carl A., San Francisco, Calif. Electric-motor casing. No. 57,483; Apr. 5; v. 285; p. 158.
- Rietz, Carl A., San Francisco, Calif. Liquid-agitating machine. No. 59,683; Nov. 15.
- Rigotty, Annie, Los Angeles, Calif. Statuette. No. 58,943; Sept. 6; v. 290; p. 156.
- Riley, James R., Dunbar, assignor to Dunbar Tire and Rubber Company, Charleston, W. Va. Automobile-tire tread. No. 58,629; Aug. 2; v. 289; p. 142.
- Rinker, S. T. (See Rust, Ervin J., assignor.)
- Rippin, Jane D., assignor to Girl Scouts, Incorporated, New York, N. Y. Scarfpin, breastpin, hatpin, button, ring, medallion, badge, or article of similar nature. No. 56,890; Jan. 4; v. 282; p. 166.
- Roach, Jesse E. (See Taussig, Amadee J., assignor.)
- Robb, Arthur A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cushion-tire. No. 59,684; Nov. 15.
- Robbins, Meyer L., assignor to Untermeyer, Robbins & Co., New York, N. Y. Ring or like article. No. 58,401; July 12; v. 288; p. 381.
- Roberts, Fred H., deceased, Wilmington; John E. R. Hayes, Melrose, Mass., and Old Colony Trust Company, executors. Candy-display box. No. 56,992; Jan. 25; v. 282; p. 689.
- Roberts, Henry P., Boston, assignor to J. I. Taylor, Dedham, Mass. Potato masher and ricer. No. 57,862; May 10; v. 286; p. 378.
- Roberts, Theodore C., New York, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Motor-board for phonograph-motors. No. 59,929; Dec. 6.
- Robertson, Sylvia S., Clear Lake, Iowa. Dress or frock. No. 57,727; Apr. 26; v. 285; p. 745.
- Robinson, James B., Chattanooga, Tenn. Buckle. No. 56,993; Jan. 25; v. 282; p. 690.
- Robinson, John L. R., Reno, Nev. Ampul. No. 58,687; Aug. 9; v. 289; p. 373.
- Robinson, Stanley D., Hamilton, Ontario, Canada. Heating-element section for electrical grates and the like. No. 59,685; Nov. 15.
- Rockford Milling Machine Company. (See Sunstrand, Oscar J., assignor.)
- Rode, Frank S., Jeannette, Pa. Game-board. No. 58,829; Aug. 30; v. 289; p. 979.
- Roehl, William, Manitowoc, Wis. Tackle-box. No. 59,775; Nov. 22.
- Rosen, Nathan M. (See Doman, Alexander, assignor.)
- Rosenfield, Joseph, Brooklyn, N. Y. Toilet-box. No. 57,152; Feb. 22; v. 283; p. 717.
- Roesler, Frank J. (See Roesler, Richard and F. J.)
- Roesler, Richard and F. J., Chicago, Ill. Christmas-tree support. No. 58,830; Aug. 30; v. 289; p. 979.
- Roettges, Frederick, Stamford, Conn., assignor to W. R. Roe & Sons, New York, N. Y. Lamp or other pedestal. Nos. 59,776-8; Nov. 22.
- Roettges, Frederick, Stamford, Conn., assignor to W. R. Roe & Sons, New York, N. Y. Lamp or other shade. Nos. 59,779-81; Nov. 22.
- Roffy, Joseph T., Pittsburgh, Pa. Blown-glass headlight-reflector. No. 59,930; Dec. 6.
- Roffy, Joseph T., Pittsburgh, Pa. Headlight-lens. No. 59,931; Dec. 6.
- Rogers, Cephas B., Danbury, Conn. Electric-light bracket. No. 58,688; Aug. 9; v. 289; p. 373.
- Rogers, E. Irving, Jr., Providence, R. I. Collar-holder. No. 57,863; May 10; v. 286; p. 378.
- Rogers, Lunt & Bowlen Company. (See Koonz, Frederick W., assignor.)
- Rogers, Simeon L. and George H., Company. (See James, Sidney, assignor.)
- Romadka, Francis J., Milwaukee, Wis. Motorcycle-trunk. No. 60,108; Dec. 27.
- Romanson, Lucas, Fisherton, Manitoba, Canada. Self-setting mousetrap. No. 59,129; Sept. 20; v. 290; p. 594.
- Romez-Cuileiz, Albert, and J. Célér, Bordeaux, France. Game-board. No. 59,433; Oct. 18.
- Rose, Oscar R., Chicago Heights, Ill. Breastpin or badge. No. 58,450; July 19; v. 288; p. 572.
- Rose, Samuel I., assignor to The Osborn-Crew Manufacturing Company, Cleveland, Ohio. Toy wagon. No. 59,872; Nov. 29.
- Rosen, Samuel, Utica, N. Y. Combination ladle and strainer. No. 60,109; Dec. 27.
- Rosenberg, Samuel, assignor to Reliable Knitting Works, Milwaukee, Wis. Knitted cap. No. 58,402; July 12; v. 288; p. 381.
- Rosenberg, Samuel, assignor to Reliable Knitting Works, Milwaukee, Wis. Combined head and neck covering. No. 58,944; Sept. 6; v. 290; p. 157.
- Rosenburg & Co. (See Hollins, W. C., and Arrousez, assignors.)
- Roskin, Israel, Brooklyn, N. Y. Setting for a finger-ring. No. 59,568; Nov. 1.
- Rosseln, Morris, Brooklyn, N. Y. Ring. No. 57,728; Apr. 26; v. 285; p. 745.
- Rostand Manufacturing Company, The. (See McCarthy, William B., assignor.)
- Roth, August J., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle or similar article of manufacture. No. 59,782; Nov. 22.
- Roth, August J., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Handle construction for an automobile-window regulator or similar article of manufacture. No. 59,783; Nov. 22.
- Roth, August J., assignor to The Mount Vernon Company, Silversmiths, Inc., Mount Vernon, N. Y. Trimming for an automobile-domelight or similar article of manufacture. No. 59,784; Nov. 22.
- Rothschild-Kuno Button Works. (See Kuno, Richard, assignor.)
- Royer, George F., Wilkes-Barre, Pa. Air-hose stand. No. 57,271; Mar. 8; v. 284; p. 337.
- Rozowsky, Alfred, New York, N. Y. Candy-package. No. 57,864; May 10; v. 286; p. 378.
- Rubber Products Company. (See Breitenstein, Arthur L., assignor.)
- Ruckman, Floyd A., Fort Wayne, Ind. Radiator-filling cap. No. 58,630; Aug. 2; v. 289; p. 142.
- Rudroff, George, Richmond Hill, N. Y. Match-box holder. No. 57,063; Feb. 1; v. 283; p. 135.
- Ruelland, Albertine, New York, N. Y. Electric iron. No. 52,285; Oct. 4.
- Rufelsen, Henry, Chicago, Ill. Finger-ring. No. 59,523; Oct. 25.
- Rundquist, Irene H., Chicago, Ill. Doll. No. 56,891; Jan. 4; v. 282; p. 166.
- Rupp, John, Canby, Oreg. Spoon-knife. No. 57,446; Mar. 29; v. 284; p. 915.
- Rush, Clara O., assignor to M. A. Rush, San Francisco, Calif. Automobile-steering-wheel lock. No. 59,377; Oct. 11.
- Rush, Milton A. (See Rush, Clara O., assignor.)
- Russel, George N., Lawrence, Kans., and O. W. Russel, Kansas City, Mo. Traffic-signal. No. 59,785; Nov. 22.
- Russel, Orson W. (See Russel, George N. and O. W.)
- Russell, Calvin, assignor to C. H. Russell, Penn Yan, N. Y. Roofing-shingle. No. 59,981; Dec. 13.
- Russell, Carrie H. (See Russell, Calvin, assignor.)
- Russell, Percy, Swarthmore, assignor to Electro Dental Manufacturing Company, Philadelphia, Pa. Dental bracket-arm. No. 59,934; Dec. 6.
- Russell, Percy, Swarthmore, Pa., A. W. Schramm, River-ton, N. J., and R. S. Woodward, Jr., Haverford, assignors to Electro Dental Manufacturing Company, Philadelphia, Pa. Pedestal for dental implements. No. 59,932; Dec. 6.
- Russell, Percy, Swarthmore, Pa., A. W. Schramm, River-ton, N. J., and R. S. Woodward, Jr., Haverford, Pa., assignors to Electro Dental Manufacturing Company, Philadelphia, Pa. Dental stand. No. 59,933; Dec. 6.
- Rust, Ervin J., assignor of one-half to S. T. Rinker, Cleveland, Ohio. Hair-clipper. No. 59,434; Oct. 18.
- Ryman, Lewis M. (See Barbault, Lucien J., assignor.)
- S. S. White Dental Manufacturing Company. (See Heck, George D., assignor.)
- Saegesser, Albert W., Granite City, Ill. Automobile-wheel lock. No. 57,729; Apr. 26; v. 285; p. 745.
- Safford, Lewis A., assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Handle for wrench or similar hand-tools. No. 57,153; Feb. 22; v. 283; p. 718.
- Safford, Lewis A., assignor to Barcalo Manufacturing Company, Buffalo, N. Y. Handle for wrenches or similar hand-tool. No. 59,786; Nov. 22.
- Sailer, George D., assignor to McKee Glass Company, Jeannette, Pa. Liquid-dispenser. Nos. 58,110-11; June 7; v. 287; p. 159.
- Sailer, George D., assignor to McKee Glass Company, Jeannette, Pa. Transparent glass dish. Nos. 58,200-1; June 21; v. 287; p. 550.
- Sailer, George D., assignor to McKee Glass Company, Jeannette, Pa. Transparent glass dish. No. 59,287; Oct. 4.
- Sailer, George D., assignor to McKee Glass Company, Jeannette, Pa. Transparent glass dish. No. 60,062; Dec. 20.
- Sala, Stanislaw and K. Dabrowski, Hamtramck, Mich. Polycycle. No. 57,993; May 24; v. 286; p. 803.
- Salazar, Eugene, San Francisco, Calif. Basket. No. 57,730; Apr. 26; v. 285; p. 745.
- Sampson, Samuel, New York, N. Y. Display-card. No. 58,631; Aug. 2; v. 289; p. 143.
- Samstag & Hilder Bros. (See Foster, Benjamin J., assignor.)
- Samstag, L. Albert, New York, N. Y. Hair-brush or similar article. No. 57,154; Feb. 22; v. 283; p. 718.



- Samstag, Louis A., New York, N. Y. Stand for displaying articles of merchandise. No. 59,130; Sept. 20; v. 290; p. 594.
- Samuel, Ralph E., New York, N. Y. Playing-card. No. 57,994; May 24; v. 286; p. 803.
- Samuels, Sidney S., Bayside, N. Y. Child's one-piece fur garment. No. 59,288; Oct. 4.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Phonograph tone-arm. No. 58,834; Aug. 30; v. 289; p. 979.
- Sanders, Walter E., assignor to Essex Rubber Company, Trenton, N. J. Heel-rest. No. 58,632; Aug. 2; v. 289; p. 143.
- Sandt, Arthur R., Minneapolis, Minn., assignor to S. L. Allen & Co., Inc. Tractor-wheel. No. 57,155; Feb. 22; v. 283; p. 718.
- Sanford, Andrew J., assignor to A. H. Heisey & Company, Newark, Ohio. Glass article. Nos. 57,272-5; Mar. 8; v. 284; p. 337.
- Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Bowl. Nos. 58,832-3; Aug. 30; v. 289; p. 979.
- Sanitary Products Corporation of America. (See Mallory, George P., assignor.)
- Sargent, Charles E., assignor to Midwest Engine Company, Indianapolis, Ind. Tractor. No. 57,381; Mar. 15; v. 284; p. 553.
- Sauer, Leo R., Waterloo, Iowa. Lamp-casing. No. 56,946; Jan. 18; v. 282; p. 536.
- Saul, Tom W., Seattle, Wash. Hairpin. No. 57,995; May 24; v. 286; p. 803.
- Saul, Tom W., Seattle, Wash. Milk-bottle-stopper remover. No. 59,373; Oct. 11.
- Scalise, Oreste, Chicago, Ill. Dustpan. No. 59,131; Sept. 20; v. 290; p. 594.
- Scarborough, Lee R., Seminary Hill, Tex., assignor to L. C. Kelly, Pineville, Ky. Badge, button, pin, brooch, or emblem. No. 58,945; Sept. 6; v. 290; p. 157.
- Scatterday, Evelyn R., Columbus, Ohio. Doll. No. 59,787; Nov. 22.
- Schaffer, Henry J., assignor to J. Schaffer, Brooklyn, N. Y. Ash-can, garbage-can, or like receptacle. No. 57,156; Feb. 22; v. 283; p. 718.
- Schaffer, Jacob. (See Schaffer, Henry J., assignor.)
- Schaller, Gus, St. Louis, Mo. Sessaw. No. 58,506; July 26; v. 288; p. 778.
- Schalow, Frank J., East New York, N. Y. Crease-retaining device for hats. No. 57,996; May 24; v. 286; p. 803.
- Schamburg, Charles, Park Ridge, Ill. Strainer-holder. No. 58,112; June 7; v. 287; p. 159.
- Scharwarth, John A., Elizabeth, assignor of one-half to C. R. Burkhardt, Teaneck, N. J. Roofing-shingle. Nos. 57,865-6; May 10; v. 286; p. 378.
- Schell, Fred B., Cleveland, Ohio. Combined cigar and cigarette receiver. No. 57,276; Mar. 8; v. 284; p. 337.
- Schirra, Julius, Pittsburgh, Pa. Music-roll-repair device. No. 58,507; July 26; v. 288; p. 778.
- Schmeidler, Daniel, Atlantic City, N. J. Clothes-tree. No. 57,382; Mar. 15; v. 284; p. 554.
- Schmeidler, Daniel, Atlantic City, N. J. Floor-lamp base. No. 57,383; Mar. 15; v. 284; p. 554.
- Schmick, Carrie R., Rocky River, Ohio. Work-garment. No. 58,403; July 12; v. 288; p. 381.
- Schmid, Werner, Brooklyn, assignor to National Lace & Embroidery Company, New York, N. Y. Lace and embroidery. Nos. 56,892-3; Jan. 4; v. 282; p. 166.
- Schmid, Werner, Brooklyn, assignor to National Lace & Embroidery Company, New York, N. Y. Lace and embroidery. Nos. 56,994-57,018; Jan. 25; v. 282; pp. 690-3.
- Schmidt, Joseph F., Walters, Minn. Sleigh-knee for heavy vehicles. No. 59,935; Dec. 6.
- Schneider, Hugo. (See Nevius, George H., assignor.)
- Schneider, Jules E., assignor to Beach-Wagstaff Rubber Corporation, Dallas, Tex. Rubber-tire tread. No. 58,113; June 7; v. 287; p. 159.
- Schnepf, Emil L., assignor to Maddock Pottery Company, Trenton, N. J. Plate or similar article. No. 58,633; Aug. 2; v. 289; p. 143.
- Schoen, Michael, New York, N. Y. Doll. No. 52,289; Oct. 4.
- Schoenfeldt, Louis B. F., Holyoke, Mass. Tire. No. 59,982; Dec. 13.
- Schoenthal, Fred C., Buffalo, N. Y. Wheel-disk. No. 58,634; Aug. 2; v. 289; p. 143.
- Schofield, George L., Frederick, Md. Traction-tread. No. 59,379; Oct. 11.
- Schott, Theodore P., Panama City, Fla. Footrest. No. 58,946; Sept. 6; v. 290; p. 157.
- Schram Glass Manufacturing Co. (See Drey, L. A., and Hiatt, assignors.)
- Schramm, Adolph W. (See Russell, P., Schramm, and Woodward.)
- Schuler, Albert W. J., East Concord, N. Y. Phonograph-cabinet. Nos. 57,195-6; Mar. 1; v. 284; pp. 145-6.
- Schuler, Albert W. J., East Concord, N. Y. Phonograph-cabinet. No. 57,931; May 17; v. 286; p. 537.
- Schuler, William A., New York, N. Y. Fastener. No. 57,384; Mar. 15; v. 284; p. 554.
- Schuler, William A., New York, N. Y. Chain-clasp. No. 57,385; Mar. 15; v. 284; p. 554.
- Schultz, Abraham J., Newark, N. J., assignor to Colonial Stamping Company, Inc. Cap for posts. Nos. 58,508-10; July 26; v. 288; pp. 778-9.
- Schulze, John W., assignor to Alfred Vester Sons, Inc., Providence, R. I. Rosette for lighting-fixtures. No. 58,947; Sept. 6; v. 290; p. 157.
- Schulze, John W., Providence, R. I., assignor to Alfred Vester Sons, Inc. Back for lighting-fixtures. No. 59,435; Oct. 18.
- Schumacher, Elmer L., and W. H. Boutelle, assignors to American Optical Company, Southbridge, Mass. Frame member of an ophthalmic mounting. No. 59,873; Nov. 29.
- Schwahl, William F. (See Eliason, F. H., and Schwahl.)
- Schwarber, Henry, Weehawken, assignor to The Inflexible Co., West New York, N. J. Embroidered lace collar. No. 57,019; Jan. 25; v. 282; p. 693.
- Schwarber, Henry, Weehawken, N. J., assignor to Inflexible Co., West New York, N. Y. Embroidered lace. No. 57,277; Mar. 8; v. 284; p. 338.
- Schwartz, Frederick, assignor to Robert Findlay Mfg. Company, New York, N. Y. Ring for lighting-fixtures. No. 57,278; Mar. 8; v. 284; p. 338.
- Schwartz, S. R., New York, N. Y. Portable lamp-base. No. 59,132; Sept. 20; v. 290; p. 594.
- Schwartz, Samuel R., and A. Bostroem, said Bostroem assignor to said Schwartz, New York, N. Y. Lamp-shade. No. 59,788; Nov. 22.
- Schweering, Ernest H., Kansas City, Mo. Spark-plug extension. No. 59,686; Nov. 15.
- Schweinefuss, John J. (See Collins, William F., assignor.)
- Schwenck, Frederick W., Cincinnati, Ohio, assignor to J. Grossman's Sons, New Orleans, La. Bottle. No. 57,867; May 10; v. 286; p. 379.
- Schwencher, John, Warren, Ohio. Combination - tool. No. 57,157; Feb. 22; v. 283; p. 718.
- Scotford, Baron H., Atlantic City, N. J. Lamp-shade. No. 59,983; Dec. 13.
- Scott, Creston W., assignor to Goodell-Pratt Company, Greenfield, Mass. Inside micrometer. No. 57,932; May 17; v. 286; p. 587.
- Scott, George B., assignor to Henry Tetlow Co., Philadelphia, Pa. Box or container. No. 59,290; Oct. 4.
- Scott-Ullman Company. (See Ullman, Albert, assignor.)
- Scranton, William F., Huntington, W. Va. Waste-basket. No. 58,258; June 28; v. 287; p. 736.
- Seaburg, Ernest J., Jamestown, N. Y. Combination library-table and phonograph-case. No. 57,158; Feb. 22; v. 283; p. 718.
- Seamless Rubber Company, The. (See Dodge, Frank W., assignor.)
- Sears, Roebuck and Co. (See Graham, Thornton G., assignor.)
- Sebring, Harry D., New York, N. Y. Medicinal container. No. 58,948; Sept. 6; v. 290; p. 157.
- Sebring Pottery Company, The. (See Morley, Samuel I., assignor.)
- Second National Bank of Baltimore, trustee. (See Black, S. D., and Decker, assignors.)
- Seeley, Hart I., Waverly, N. Y. Glove. No. 57,279; Mar. 8; v. 284; p. 338.
- Scher, George G., Philadelphia, Pa. Gripping device. No. 59,936; Dec. 6.
- Sehbach, Albert E., assignor to Albert Pick & Company, Chicago, Ill. Goblet or similar article of glassware. No. 57,933; May 17; v. 286; p. 587.
- Sehbach, Albert E., assignor to Albert Pick & Company, Chicago, Ill. Sundae-dish. No. 59,687; Nov. 15.
- Seiger, M., & Son. (See Seiger, Morris, assignor.)
- Seiger, Morris, assignor to M. Seiger & Son, New York, N. Y. Ring or similar article of manufacture. No. 59,874; Nov. 29.
- Selisnik, Christian, Cleveland, Ohio. Flag-holder. No. 59,875; Nov. 29.
- Sell, Augustus H., Newark, N. J. Article of manufacture. No. 56,894; Jan. 4; v. 282; p. 167.
- Senften, Herman, Los Angeles, Calif. Container. No. 58,689; Aug. 9; v. 289; p. 373.
- Serafin, Romano, Hartford, Conn. Power-stick clamp for looms. No. 59,380; Oct. 11.
- Serduke, Sophie. (See MacQuarrie, John, assignor.)
- Serlin, Nathan, Chicago, Ill. Vehicle-tire. No. 57,386; Mar. 15; v. 284; p. 554.
- Seymour, Charles H., Flushing, assignor to National Drug Stores Corporation, New York, N. Y. Store-front. No. 58,690; Aug. 9; v. 289; p. 373.
- Shafer, Van A., et al., trustees. (See Mullvain, Earnest E., assignor.)
- Shankland, Frank S., Des Moines, Iowa. Badge or emblem. No. 57,545; Apr. 12; v. 285; p. 346.
- Shanklin, George R. (See Knisely, Elwood E., assignor.)
- Shannon, Floyd E., Akron, Ohio. Elastic vehicle-tire. No. 57,732; Apr. 26; v. 285; p. 746.
- Shannon, John C., Walsall, England. Clothes-hanger. No. 59,688; Nov. 15.
- Shapiro & Aronson. (See Klein, Max, assignor.)
- Shapiro & Aronson. (See Westphal, Gottfried, assignor.)
- Sharp, Gay E., Oklahoma, Okla. Wrench. No. 56,895; Jan. 4; v. 282; p. 167.
- Sharpe, George E., Steubenville, Ohio. Heat-tube for fire-place-heaters. No. 60,063; Dec. 20.
- Shaw, Eulalia M., Los Angeles, Calif. Doll. No. 58,401; July 12; v. 288; p. 381.
- Shaw, Harry A., Chicago, Ill. Comb. No. 57,020; Jan. 25; v. 282; p. 693.
- Shaw, Myron R. (See Balthazar, A., and Shaw.)



*Alphabetical list of patentees of designs—Continued.*

- Sheaffer, Walter A., Fort Madison, Iowa. Pencil. No. 59,035; Sept. 13; v. 290; p. 387.
- Sheever, Johan, Mineville, N. Y. Anvil. No. 60,064; Dec. 20.
- Sheffer, Ira L., Detroit, Mich. Suction-cleaner case. No. 56,947; Jan. 18; v. 282; p. 536.
- Shepherd, Robert E., Oakland, Calif. Automobile delivery-body. No. 57,337; Mar. 15; v. 284; p. 554.
- Sherer, William T., Chicago, Ill. Display-counter. No. 57,096; Feb. 8; v. 283; p. 326.
- Sheriff, J. Ed., Mount Vernon, N. Y. Hub-cap or similar article. No. 57,733; Apr. 26; v. 285; p. 746.
- Sherman, Charles H., North Attleboro, Mass. Slide for ribbon waldemar, sautoir, or the like. No. 58,835; Aug. 30; v. 289; p. 980.
- Sherman, Max, Brooklyn, assignor to Blue Ribbon Silver Manufacturers, Inc., New York, N. Y. Vase. No. 59,036; Sept. 13; v. 290; p. 387.
- Shinn, Bess and L., White Sulphur Springs, W. Va. Hobbyhorse. No. 58,635; Aug. 2; v. 289; p. 143.
- Shinn, Lita. (See Shinn, Bess and L.)
- Shipperd, Nava A., Omaha, Nebr. Computing apparatus. No. 59,381; Oct. 11.
- Shipley, Robert M. (See Dennis, E. C., and Shipley.)
- Shire, Harry I., Detroit, Mich. Electrical measuring instrument. No. 57,934; May 17; v. 286; p. 587.
- Shirley, George E., Alba, Mo. Flue-cleaning blade. No. 59,382; Oct. 11.
- Shively, Frank J., Canton, Ohio. Knife-handle. No. 57,935; May 17; v. 286; p. 588.
- Shlamowitz, Hyman, Brooklyn, N. Y. Bracket for the head-ring of an electric-light fixture. No. 59,937; Dec. 6.
- Shoenberg, Milton H., San Francisco, Calif. Socket-interrupter. No. 57,159; Feb. 22; v. 283; p. 719.
- Shoenberg, Milton H., assignor to Majestic Electric Development Co., San Francisco, Calif. Radiant electric heating unit. No. 59,133; Sept. 20; v. 290; p. 594.
- Sholin, Charles, San Francisco, Calif. Washboard. No. 59,383; Oct. 11.
- Shropshire, Courtney W., assignor to International Association of Civitan Clubs, Birmingham, Ala. Emblem, badge, button, pin, fob, ring, or like article of manufacture. No. 58,511; July 26; v. 288; p. 779.
- Shrum, William H. V., Columbus, Ohio. Flying toy. Nos. 57,448-9; Mar. 29; v. 284; p. 915.
- Shuart, Charles A. (See Drager, Regina T., assignor.)
- Siewers, Walter L., assignor to The Indera Mills, Winston-Salem, N. C. Undergarment or article of similar nature. No. 58,405; July 12; v. 288; p. 381.
- Sigwalt, Harold P., Milwaukee, Wis. Rocking-duck nursery toy. No. 60,111; Dec. 27.
- Simmons, Ada S. (See Zimmerman, Marguerite M., assignor.)
- Simmons Company. (See Papoll, Walter, assignor.)
- Simmons Company. (See Stuart, Charles A., assignor.)
- Simmons, John W., Cleveland, Ohio. Bumper. No. 57,734; Apr. 26; v. 285; p. 746.
- Simms, Edward R., Scottsdale, Pa. Tire-tread. No. 59,689; Nov. 15.
- Simon, Franklin, New York, N. Y. Scarf. No. 58,406; July 12; v. 288; p. 382.
- Simon, Maurice, St. Louis, Mo. Automobile radiator-cap. No. 59,985; Dec. 13.
- Simon & Mendelsohn. (See Mendelsohn, Herman T., assignor.)
- Simplex Alarm Company. (See West, Merle J., assignor.)
- Simpson-Peck Manufacturing Company, The. (See Peck, William A., assignor.)
- Simson, Max, New York, N. Y. Ring. Nos. 57,280-1; Mar. 8; v. 284; p. 338.
- Sincole, George, Detroit, Mich. Fly-catcher. No. 57,735; Apr. 26; v. 285; p. 746.
- Silverman, Charles, Providence, R. I. Collar-holder. No. 58,295; July 5; v. 288; p. 165.
- Six, William L., Kansas City, Mo. Finned tubular boiler unit. No. 59,690; Nov. 15.
- Sizaire, Maurice H. L., Park Royal, London, England. Automobile-radiator. No. 57,736; Apr. 26; v. 285; p. 746.
- Skelly, Bernard H., Bridgeport, Conn. Oil-gun reservoir. No. 60,112; Dec. 27.
- Skiles, Frank C., Chicago, Ill. Loose-leaf book. No. 59,606; Nov. 8.
- Sleicher, William N., Troy, N. Y. Anchor-yoke for non-skid chains. No. 59,384; Oct. 11.
- Sloane, Max, Brooklyn, N. Y. Handbag-frame. No. 57,868; May 10; v. 286; p. 379.
- Smith, Albert D., Detroit, Mich. Sewing-machine head. No. 59,524; Oct. 25.
- Smith, Arthur J., Tappan, N. Y. Hairpin. No. 59,291; Oct. 4.
- Smith, Charles F., assignor to Maxim Manufacturing Company, Chicago, Ill. Vegetable-peeling disk. No. 58,046; May 31; v. 286; p. 1016.
- Smith, Curtis A., New Rochelle, assignor to Robert Findlay Manufacturing Co., New York, N. Y. Ring for lighting-fixtures. No. 59,525; Oct. 25.
- Smith, De Wane B., Utica, N. Y. Automobile-body. No. 57,936; May 17; v. 286; p. 588.
- Smith, Doris M., Oakland, Calif. Child's frock. No. 59,037; Sept. 13; v. 290; p. 388.
- Smith, F. Haskell, Bloomfield, N. J. Tire or similar article. No. 57,937; May 17; v. 286; p. 588.
- Smith, Fillmore M., Syracuse, N. Y., assignor, by mesne assignments, to James Heddon's Sons, Incorporated, Dowagiac, Mich. Artificial bait. No. 59,436; Oct. 18.
- Smith, Fred H., Bloomfield, N. J. Tire. No. 57,790; May 3; v. 286; p. 156.
- Smith, Ignatius, assignor to Bureau of the Holy Name Society, New York, N. Y. Button, badge, or article of similar nature. No. 58,949; Sept. 6; v. 290; p. 157.
- Smith, Irving V., assignor to The Williams Brothers Manufacturing Company, Glastonbury, Conn. Handle for a spoon, fork, and similar article. No. 59,385; Oct. 11.
- Smith, James, assignor to The Palm Craft Company, Tampa, Fla. Lamp. Nos. 57,938-40; May 17; v. 286; p. 588.
- Smith, Joseph O., assignor of one-half to J. B. Reeves, Los Angeles, Calif. Gas water-heater. No. 59,437; Oct. 18.
- Smith, Iowa B. (See Isaacs, D. H., and Smith.)
- Smith, Maurice A., assignor to McKee Glass Company, Jeannette, Pa. Glass vessel. No. 57,997; May 24; v. 286; p. 803.
- Smith, Maurice O., St. Louis, Mo. Vaporizer for gas-engines. No. 57,282; Mar. 8; v. 284; p. 338.
- Smith, Norman A., Los Angeles, Calif. Pin. No. 57,283; Mar. 8; v. 284; p. 339.
- Smith, Robert J., assignor to Continental Rubber Works, Erie, Pa. Tire. No. 59,526; Oct. 25.
- Smith, Theodore B., assignor to House Dress Apron Co., Amsterdam, N. Y. Apron. No. 57,284; Mar. 8; v. 284; p. 339.
- Smith, Theodore C., Philadelphia, Pa. Self-illuminating pendant. No. 58,047; May 31; v. 286; p. 1017.
- Smith, W. D., Silver Company. (See Burgeois, R. J., and Ittig, assignors.)
- Smith, William H. (See Gledhill, J. S., and Smith.)
- Smithy, Marvin, Lawrenceville, Va. Face-plate for meters or similar measuring instruments. No. 57,941; May 17; v. 286; p. 588.
- Smykowski, Charles, Youngstown, Ohio. Framed picture. No. 58,636; Aug. 2; v. 289; p. 144.
- Snead & Company. (See Macdonald, Angus S., assignor.)
- Snow, Wilmer S., assignor to National X-Ray Reflector Co., Chicago, Ill. Lighting-fixture. No. 58,114; June 7; v. 287; p. 160.
- Snyder, Plummer B. (See Clark, G. S., and Snyder, assignors.)
- Sobczak, Zygmund, Metz, Mich. Picture-frame. No. 59,938; Dec. 6.
- Soderlund, Carl, Akron, Ohio. Cushion-tire tread. No. 59,134; Sept. 20; v. 290; p. 594.
- Sokolsky, Selma, New York, N. Y., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. No. 58,836; Aug. 30; v. 289; p. 980.
- Solan, Patrick F., and H. S. Balliet, New York, N. Y. Non-slipping paving composition. (Reissue.) No. 15,097; Apr. 26; v. 285; p. 715.
- Solidarity Watch Case Company. (See McGrevy, Jeremiah, assignor.)
- Solomon, Jacob, assignor to Kiddie Garment Co., Inc., New York, N. Y. Child's outer garment. No. 60,065; Dec. 20.
- Somerville Stove Works. (See Prizer, Charles S., assignor.)
- Sommer, J. L., Manufacturing Co. (See Biehl, Bernard, Sr., assignor.)
- Sonntag, Eugene, Jr., Astoria, assignor to M. Binkovitz & Son, New York, N. Y. Mattress-ticking. Nos. 59,292-6; Oct. 4.
- Sonora, Inc. (See Wolff, Joseph, assignor.)
- Sortor, Lester J., Des Moines, Iowa. Drill-hole cleaner or similar article. No. 58,691; Aug. 9; v. 289; p. 373.
- Southard, Walter P., Rocky River, Ohio. Letter-head. No. 57,546; Apr. 12; v. 285; p. 347.
- Spak, Louis, Polar, Wis. Comb-cleaning device. No. 57,737; Apr. 26; v. 285; p. 747.
- Spaniak, Adam, assignor of one-half to W. I. Price, Baltimore, Md. Electric-bulb holder. No. 57,942; May 17; v. 286; p. 589.
- Sparks, William, Jackson, Mich. Radiator-shell. No. 57,738; Apr. 26; v. 285; p. 747.
- Spence, Arthur, Cleveland, Mich. Coal-bin. No. 57,869; May 10; v. 286; p. 379.
- Spencer, Lane H., executor. (See Spencer, Robert.)
- Spencer, Robert, South Orange, N. J.; L. H. Spencer, executor. Easel. No. 59,607; Nov. 8.
- Spierling, Louis. (See Van Osdel, William J., assignor.)
- Spitzer, Samuel, New York, N. Y. Pendant watch-bow. No. 59,986; Dec. 13.
- Sprader, Frank, West Allis, Wis. Butter-cutting gage. No. 59,691; Nov. 15.
- Springer, Edward H., Santa Monica, Calif. Doll-head. No. 57,547; Apr. 12; v. 285; p. 347.
- Squire, Clark, Puyallup, Wash. Name-plate for automobiles. No. 59,386; Oct. 11.
- Stadnick, Rudolph L., assignor of one-half to T. E. Vodicka, St. Louis, Mo. Game-board. No. 57,160; Feb. 22; v. 283; p. 719.
- Stahl, Rodolphe, Detroit, Mich. Radiator. No. 57,998; May 24; v. 286; p. 804.
- Stahl, Rodolphe, assignor to Benjamin Briscoe & Stahl Engineering Co., Inc., Detroit, Mich. Radiator for automobiles. No. 59,876; Nov. 29.



- Stahl, Fred W., Chicago, Ill. Wind-deflector clamp. No. 57,021; Jan. 25; v. 282; p. 693.
- Standard Brass Casting Co. (See Wuesthoff, Maximilian W., assignor.)
- Standard Chemical Company. (See Hartenhelm, Max, assignor.)
- Standard Thermometer Company. (See Lord, Samuel C., assignor.)
- Stanfield, William R. (See Benbow, J., and Mason, assignors.)
- Stanley, Arthur M., Lynn, assignor to Stanley Steel Welded Wheel Corporation, Boston, Mass. Vehicle-wheel. No. 58,164; June 14; v. 287; p. 359.
- Stanley Steel Welded Wheel Corporation (See Stanley, Arthur M., assignor.)
- Stanley Works, The. (See Bodmer, Christian, assignor.)
- Stanwood Equipment Company. (See Stanwood, Frank H., assignor.)
- Stanwood, Frank H., assignor to Stanwood Equipment Company, Chicago, Ill. Automobile step-plate. Nos. 57,791-2; May 3; v. 286; pp. 156-7.
- Stapienski, Stanislaw, Jersey City, N. J. Milk-boiler. No. 57,064; Feb. 1; v. 283; p. 135.
- Star Chandelier Co. (See Poritz, Frederick M., assignor.)
- Star Rubber Company, The. (See Weaver, Orlando L., assignor.)
- Starrett, Arthur H., assignor to The L. S. Starrett Company, Athol, Mass. Prick-punch, nail-set, or article of similar nature. No. 57,548; Apr. 12; v. 285; p. 347.
- Starrett, L. S., Company, The. (See Starrett, Arthur H., assignor.)
- State of Ohio. (See Gebhardt, Dixie C., assignor.)
- Stebe, Jacob, Chicago, Ill. Straw-weave as applied to a straw hat. No. 58,950; Sept. 6; v. 290; p. 158.
- Steck, Frank W., Buffalo, N. Y. Talking-machine case. Nos. 58,512-13; July 26; v. 288; p. 779.
- Steedman, Edwin H., St. Louis, assignor to Curtis & Co. Mfg. Co., Wellston, Mo. Air-compressor casing. No. 60,066; Dec. 20.
- Stegg, Frederick L., assignor to Thermo Clock Sign Co., Chicago, Ill. Advertising device. No. 58,837; Aug. 30; v. 289; p. 980.
- Steel, Herman D., Philadelphia, Pa., assignor to Swiss Jewel Co., S. A. Locarno, Switzerland. Precious, semiprecious, or synthetic jewel. Nos. 59,297-9; Oct. 4.
- Steel, Walter, Philadelphia, Pa. Paper-wrapped candy known as bunny bonnet pops. No. 59,692; Nov. 15.
- Steele, Lloyd R., Auburn, N. Y. Auto radiator-cap. No. 59,987; Dec. 13.
- Steell, Edgar M., assignor to Porcupine Manufacturing Company, Spokane, Wash. Tire-patch. No. 58,951; Sept. 6; v. 290; p. 158.
- Steen, Thomas C., Lake Charles, La. Toy telephone. No. 57,022; Jan. 25; v. 282; p. 693.
- Steere, Collis H., Palo Alto, Calif. Candy-container. No. 58,165; June 14; v. 287; p. 359.
- Stefanko, Steven, Glen Carbon, Pa. Sealed postal card. No. 58,637; Aug. 2; v. 289; p. 144.
- Steffen, Emil C., Los Angeles, Calif. Game apparatus. No. 58,259; June 28; v. 287; p. 736.
- Steffen, Walter L., Kenton, Ohio. Ring. No. 59,300; Oct. 4.
- Stein, Fred W., Atchison, Kans. Laundry-rubber. No. 59,939; Dec. 6.
- Stenberg, Sven A. A., Los Angeles, Calif. Hatpin. No. 57,388; Mar. 15; v. 284; p. 554.
- Stenger, Ezra G., *et al.*, trustees. (See Howard, John H., assignor.)
- Stephenson, Walter B., assignor to Delta Electric Company, Marion, Ind. Flashlight. No. 59,301; Oct. 4.
- Sterebuch, Harry and S., New York, N. Y. Paper bag. No. 57,023; Jan. 25; v. 282; p. 693.
- Sterebuch, Sam. (See Sterebuch, Harry and S.)
- Sterling Button Co. (See Turkeltaub, Abraham M., assignor.)
- Sterling Tire Corporation. (See Basten, Otto, assignor.)
- Stern, Milton C., assignor to The Egly Register Company, Dayton, Ohio. Autographic register. No. 56,948; Jan. 18; v. 282; p. 537.
- Sternau, S., & Company. (See Wheaton, Theodore C., Jr., assignor.)
- Stewart, John H. (See Bacheller, Edward F., assignor.)
- Stewart-Warner Speedometer Corporation. (See Van Guilder, Walter, assignor.)
- Stewart-Warner Speedometer Corporation. (See Whittington, Frederick G., assignor.)
- Stewart, William L., Worcester, Mass. Lamp. No. 60,067; Dec. 20.
- Stickney, Jennie G., San Francisco, Calif. Playing-cards. No. 59,527; Oct. 25.
- Stine, Homer R., New Lexington, Ohio. Pin. No. 56,896; Jan. 4; v. 282; p. 167.
- Stipes, Reuben B., J. D. Goodwin, and H. C. Welch, Flint, Mich. Wheel-holder. No. 58,260; June 28; v. 287; p. 736.
- Stirling, Robert, Jr., East Chicago, Ind. Nipple attachment for automobile-radiators. No. 58,952; Sept. 6; v. 290; p. 158.
- Stock, John J., Erdenheim, Pa. Amusement-car. No. 58,115; June 7; v. 287; p. 160.
- Stock, William S., Portland, Oreg. Container for sachet-powder or similar articles. No. 59,438; Oct. 18.
- Stokes, Robert J., assignor to Thermoid Rubber Company, Trenton, N. J. Vehicle-tire. No. 57,870; May 10; v. 286; p. 379.
- Stolley, William A., Dowagiac, Mich. Fish-bait body. No. 57,739; Apr. 26; v. 285; p. 747.
- Stolley, William A., Dowagiac, Mich. Fish-bait body. No. 58,116; June 7; v. 287; p. 160.
- Stolley, William A., assignor to James Heddon's Sons, Dowagiac, Mich. Artificial bait. No. 57,871; May 10; v. 286; p. 379.
- Stone, John H., Cranston, R. I. Clasp. No. 60,068; Dec. 20.
- Stone Manufacturing Company. (See Stone, Morris J., assignor.)
- Stone, Morris J., assignor to Stone Manufacturing Company, St. Louis, Mo. Phonograph-cabinet. Nos. 57,389-93; Mar. 15; v. 284; p. 555.
- Stothoff, William S., Easton, assignor to Tioga Steel and Iron Company, Philadelphia, Pa. Truck-wheel. No. 56,897; Jan. 4; v. 282; p. 167.
- Stothoff, William S., Easton, assignor to Tioga Steel and Iron Company, Philadelphia, Pa. Tractor-wheel. Nos. 56,898-9; Jan. 4; v. 282; pp. 167-8.
- Stover, Harry W., Oakland, and B. M. Coates, Piedmont, Calif. Automobile rear-sight device. No. 58,692; Aug. 9; v. 289; p. 373.
- Strahan, George V., Newark, N. J., assignor to Mitchell Vance Co., Inc., New York, N. Y. Wall-bracket for a lighting-fixture. Nos. 57,161-2; Feb. 22; v. 283; p. 719.
- Strahan, George V., Newark, N. J., assignor to Mitchell Vance Co., Inc., New York, N. Y. Standard for a lighting-fixture. Nos. 57,163-5; Feb. 22; v. 283; pp. 719-20.
- Strahan, George V., Newark, N. J., assignor to Mitchell Vance Co., Inc., New York, N. Y. Wall-bracket for a lighting-fixture. Nos. 57,166-9; Feb. 22; v. 283; p. 720.
- Strahan, George V., Newark, N. J., assignor to Mitchell Vance Company, Inc., New York, N. Y. Ceiling-plate for a lighting-fixture. Nos. 57,170-1; Feb. 22; v. 283; pp. 720-1.
- Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Ceiling-plate for a lighting-fixture. No. 57,943; May 17; v. 286; p. 589.
- Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Canopy for lighting-fixtures. No. 57,944; May 17; v. 286; p. 589.
- Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Socket-cover for lighting-fixtures. Nos. 57,945-6; May 17; v. 286; p. 589.
- Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Standard for a lighting-fixture. Nos. 58,407-8; July 12; v. 288; p. 382.
- Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Standard for a lighting-fixture. No. 59,940; Dec. 6.
- Strauss, Ernest H., Chicago, Ill. Lamp-shade. No. 57,793; May 3; v. 286; p. 157.
- Strauss, Ferdinand, New York, N. Y. Toy. No. 58,638; Aug. 2; v. 289; p. 144.
- Strauss, Ferdinand, New York, N. Y. Toy vehicle. No. 59,941; Dec. 6.
- Streich, Edward C. (See Copeland, Francis C., assignor.)
- Streich, Edward C., *et al.*, trustees. (See Mullvain, Earnest B., assignor.)
- Streich, M. C., *et al.*, trustees. (See Mullvain, Earnest B., assignor.)
- Streun, Louis J., assignor to Beaver Machine & Tool Company, Newark, N. J. Pendant switch. No. 58,838; Aug. 30; v. 289; p. 980.
- Strnad, Louis G., Chicago, Ill. Curtain-rod holder. No. 57,740; Apr. 26; v. 285; p. 747.
- Strohbaker, Gustave, Wallingford, assignor to International Silver Co., Meriden, Conn. Handle for a spoon, fork, or similar article. No. 59,387; Oct. 11.
- Stuart, Benjamin B., San Antonio, Tex. Bank-check. No. 58,639; Aug. 2; v. 289; p. 144.
- Stuart, Charles A., assignor to Simmons Company, Kenosha, Wis. Bedstead end. No. 56,900; Jan. 4; v. 282; p. 168.
- Stuart, Charles A., assignor to Simmons Company, Kenosha, Wis. Medallion. No. 59,302; Oct. 4.
- Stuart, Charles A., assignor to Simmons Company, Kenosha, Wis. Bedstead-frame. Nos. 59,609-10; Nov. 8.
- Stuart, Charles A., assignor to Simmons Company, Kenosha, Wis. Grille for bedstead-frames. No. 59,608; Nov. 8.
- Stuart, Charles A., assignor to Simmons Company, Kenosha, Wis. Grille for bedstead end frames. No. 59,789; Nov. 22.
- Stuart, Ralph E., Buffalo, N. Y., assignor to Kniffin & Demarest Co. Crockery and chinaware. Nos. 59,038-9; Sept. 13; v. 290; p. 388.
- Stuhr, Herman F., Cleveland, Ohio. Holder for smoking-pipes. No. 60,069; Dec. 20.
- Sturm, Rudolph, St. Paul, Minn. Bracelet, napkin-ring, or article of a similar nature. No. 58,409; July 12; v. 288; p. 382.



- Sturt, Alfred T., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Motor-driven farm-truck. No. 59,790; Nov. 22.
- Sturtevant, James B. (See Weber, J. H., and Sturtevant.)
- Stutz, Harry C., Indianapolis, Ind. Radiator-cap. No. 57,741; Apr. 26; v. 285; p. 747.
- Sucatre, Victoriano, San Francisco, Calif. Floral holder. Nos. 58,451-2; July 19; v. 288; p. 572.
- Sumner, Chester L., Tacoma, Wash. Handkerchief. No. 59,040; Sept. 13; v. 290; p. 388.
- Sunbeam Electric Manufacturing Company. (See Jones, Lee B. and E. W., and Battin, assignors.)
- Sundstrander, Oscar J., Rockford, Ill., assignor to Rockford Milling Machine Company. Cash-register. No. 57,742; Apr. 26; v. 285; p. 747.
- Supansick, Arthur. (See Elliott, C. H., and Supansick.)
- Susquehanna Silk Mills. (See Bunting, James H., assignor.)
- Susquehanna Silk Mills. (See Elsele, Adolphe, assignor.)
- Susquehanna Silk Mills. (See Katz, Clara, assignor.)
- Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
- Susquehanna Silk Mills. (See Reinhardt, Ruby L., assignor.)
- Susquehanna Silk Mills. (See Reith, William G., assignor.)
- Sutton, Claude W., assignor to American Vulcanized Fiber Company, Wilmington, Del. Waste-basket or similar article. No. 60,070; Dec. 20.
- Sutton, Elisabeth, Paterson, N. J. Game-board. No. 57,947; May 17; v. 286; p. 589.
- Sutton, Eugene S., Seattle, Wash. Kitchen-cabinet. No. 59,041; Sept. 13; v. 290; p. 389.
- Svarz, Louis, *et al.* (See Swihart, Elmer E., assignor.)
- Svensden, Ole M., assignor to Federal Tin Company, Incorporated, Baltimore, Md. Sifter-top can or similar receptacle. No. 58,048; May 31; v. 286; p. 1017.
- Swan, Herbert H., Grand Rapids, Mich. Tire-tread. No. 59,042; Sept. 13; v. 290; p. 389.
- Swanson, Carl W., assignor to Apex Appliance Company, Chicago, Ill. Washing-machine tub. No. 57,172; Feb. 22; v. 283; p. 721.
- Swanson, John A., Omaha, Nebr. Table. No. 58,953; Sept. 6; v. 290; p. 158.
- Swanson, Sam., assignor to Burson Knitting Company, Rockford, Ill. Stocking. No. 59,988; Dec. 13.
- Swarr, Howard G., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Boot or shoe heel. No. 57,743; Apr. 26; v. 285; p. 748.
- Sweetland, Arthur H., Long Beach, Calif. Electrically-operated hand-drill. No. 58,117; June 7; v. 287; p. 160.
- Swientek, Anton, Chicago, Ill. Picture, mirror, or like frame. No. 59,303; Oct. 4.
- Swihart, Cyrus E., Harpster, Ohio. Combination-tool. No. 57,394; Mar. 15; v. 284; p. 555.
- Swihart, Elmer E., assignor of one-third to L. Svarz, and one-third to C. H. Woods, Seattle, Wash. Combined kitchen-reminder and advertising-chart. No. 57,744; Apr. 26; v. 285; p. 748.
- Swing, Alfred J., Cincinnati, Ohio. Talking-machine casing. No. 67,024; Jan. 25; v. 282; p. 694.
- Swiss Jewel Co., S. A. (See Steel, Herman D., assignor.)
- Switzer, Maurice, assignor to Kelly-Springfield Tire Company, New York, N. Y. Vehicle-tire. No. 57,872; May 10; v. 286; p. 379.
- Switzer, Maurice, assignor to Kelly-Springfield Tire Company, New York, N. Y. Vehicle-tire. No. 57,948; May 17; v. 286; p. 590.
- Syracuse Rubber Company. (See Greer, William E., assignor.)
- Szepe, Joseph J., Pittsburgh, Pa. Coin and fare holder. No. 59,791; Nov. 22.
- Szymanski, Stanislaw, Newark, N. J. Lavallière. No. 58,410; July 12; v. 288; p. 383.
- Szunderowski, Mike, Three Rivers, Mass. Basket. No. 57,395; Mar. 15; v. 284; p. 556.
- Tait, Basil M., Denver, Colo. Candy-box. No. 58,954; Sept. 6; v. 290; p. 159.
- Talbott, Frank R., assignor to The Victor Rubber Company, Springfield, Ohio. Pneumatic-tire tread. No. 58,640; Aug. 2; v. 289; p. 144.
- Tate Electrolytic Textile Processes. (See Friedlander, William S., assignor.)
- Tatler, Edgar E., Trenton, N. J. Spinner. No. 56,949; Jan. 18; v. 282; p. 537.
- Tatum, Mary T., and E. W. Tyndale, Swarthmore, Pa. Doll. No. 57,396; Mar. 15; v. 284; p. 556.
- Tauscher, Harry J., assignor to Up to Date Machine Works, Chicago, Ill. Radiator-cap. No. 58,514; July 26; v. 288; p. 780.
- Taussig, Amadee J., assignor to J. E. Roach, Hollywood, Calif. Lead-pencil. Nos. 57,397-9; Mar. 15; v. 284; p. 556.
- Taylor, Ernest, Calgary, Alberta, Canada. Tile. No. 56,950; Jan. 18; v. 282; p. 537.
- Taylor, Harry A., New York, N. Y. Glove. No. 59,611; Nov. 8.
- Taylor Instrument Company. (See Brown, Henry B., assignor.)
- Taylor, John I. (See Roberts, Henry P., assignor.)
- Taylor, June R., Los Angeles, Calif. Dress. No. 58,641; Aug. 2; v. 289; p. 144.
- Taylor, Lucius L., Waupun, Wis. Air-injector for pumps. No. 59,877; Nov. 29.
- Taylor, Robert S., Seattle, Wash. Spring-hanger bracket. No. 59,792; Nov. 22.
- Teasdale, George, assignor to L. Lachs, Kansas City, Mo. Humidor for cigars. No. 58,955; Sept. 6; v. 290; p. 158.
- Teeple, Edgar B., Minneapolis, Minn. Frame for a boring-machine. No. 57,999; May 24; v. 286; p. 804.
- Telling, William E., Cleveland, Ohio. Miniature billboard. Nos. 57,484-5; Apr. 5; v. 285; p. 158.
- Teltsch, Frank, *et al.* (See Falliser, Leonard, assignor.)
- Tennefuss, Jans T., Minneapolis, Minn. Watch-charm. No. 59,612; Nov. 8.
- Tenney, John, Jr., Plainfield, N. J., assignor to Howe Rubber Corporation. Tire. Nos. 59,304-5; Oct. 4.
- Tenny, Roscoe, David City, Nebr. Highway advertising and directing sign. No. 59,693; Nov. 15.
- Terrell, Alva C., Kansas City, Mo. Tire-tread. No. 57,745; Apr. 26; v. 285; p. 748.
- Tetlow, Henry, Co. (See Scott, George B., assignor.)
- Tew, James D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pneumatic-tire tread. No. 57,873; May 10; v. 286; p. 380.
- Thalheimer Brothers. (See Fox, Jacob, assignor.)
- Tharaud, Justin, Weehawken, N. J. Dish or similar article. No. 58,515; July 26; v. 288; p. 780.
- Thayer, Herbert A., Providence, R. I. Frame for holding a number-plate and another designating device. No. 58,839; Aug. 30; v. 289; p. 980.
- Thermo Clock Sign Co. (See Steeg, Frederick L., assignor.)
- Thermoid Rubber Company. (See Stokes, Robert J., assignor.)
- Theroz Company, The. (See Popper, Isaac C., assignor.)
- Thibault, Gustave, Whitehall, N. Y. Rosary. No. 59,306; Oct. 4.
- Thill, Frank A., Cincinnati, Ohio. Button or badge. No. 58,642; Aug. 2; v. 289; p. 145.
- Thomas, Horace T., Lansing, Mich. Automobile-seat construction. No. 58,261; June 28; v. 287; p. 736.
- Thomas, Horace T., Lansing, Mich. Automobile-body. No. 58,262; June 28; v. 287; p. 736.
- Thomas, Horace T., Lansing, Mich. Automobile-top. No. 58,263; June 28; v. 287; p. 736.
- Thomlinson, John R., Patrick, Glasgow, Scotland. Leather football-cover. Nos. 58,166-7; June 14; v. 284; p. 359.
- Thommen, William H., Plymouth, Wis. Phonograph. No. 59,989; Dec. 13.
- Thompson, Charles H., assignor to Thornhill Wagon Company, Lynchburg, Va. Axle-lubricating sleeve. No. 58,049; May 31; v. 286; p. 1017.
- Thompson, Elmer B., Des Moines, assignor to Automotive Radiator Machine Company, Fort Dodge, Iowa. Automobile-radiator-repairing-machine frame. No. 57,794; May 3; v. 286; p. 157.
- Thompson, Elsie M., New York, N. Y. Furniture-cover. No. 58,168; June 14; v. 287; p. 359.
- Thompson, Henry L., Philadelphia, Pa. Carpet. No. 58,840; Aug. 30; v. 289; p. 981.
- Thompson, Mary W., executrix. (See Thompson, Robert R.)
- Thompson, Peter J., Belleville, N. J. Vanity-case, brooch, pin, or similar article of jewelry. No. 59,793; Nov. 22.
- Thompson, Robert R., deceased, by M. W. Thompson, executrix, Los Angeles, Calif. Signal. No. 58,841; Aug. 30; v. 289; p. 981.
- Thomson, Ralph K., Sioux Falls, S. D. Side curtain for automobiles. No. 57,285; Mar. 8; v. 284; p. 339.
- Thomson, Ralph K., Sioux Falls, S. D. Automobile side curtain. No. 57,746; Apr. 26; v. 285; p. 748.
- Thomson, Ralph K., Sioux Falls, S. D. Automobile side curtain. Nos. 57,795-7; May 3; v. 286; p. 157.
- Thornhill Wagon Company. (See Thompson, Charles H., assignor.)
- Thornton, Edgar R. (See Clouser, H. E., and Thornton.)
- Thornton, Noble T., and E. C. Dunn, Keokuk, Iowa; said Thornton assignor to said Dunn. Clothes-lifting stick. No. 59,613; Nov. 8.
- Throsby, Edwin R., assignor to Kelly Tire and Rubber Company, New Haven, Conn. Tire. No. 57,400; Mar. 15; v. 284; p. 556.
- Tichy, Conrad, Chicago, Ill. Typewriter-desk. No. 57,401; Mar. 15; v. 284; p. 557.
- Tiffany & Company. (See Barney, Arthur L., assignor.)
- Till, Henry, Pittsburgh, Calif. Can-opener. No. 57,798; May 3; v. 286; p. 157.
- Tillman, Carl E., Chicago, Ill. Container for cigars. No. 57,173; Feb. 22; v. 283; p. 721.
- Tin Decorating Company of Baltimore, The. (See Connor, Martha H., assignor.)
- Tin Decorating Company of Baltimore, The. (See Green, William H., assignor.)
- Tloga Steel and Iron Company. (See Stothoff, William S., assignor.)
- Titus Blatter & Company. (See Biva, Lucein, assignor.)
- Titus Blatter & Company. (See Frati, Alfred, assignor.)
- Tkachuk, Leon, Aldergrove, British Columbia, Canada. Sled. No. 59,388; Oct. 11.
- Tobias, John M., Pittsburgh, Pa. Gas-stove. No. 57,174; Feb. 22; v. 283; p. 721.
- Tobler & Hoenig. (See Hoenig, Franz, assignor.)
- Tockes, Frank, Chicago, Ill. Chest. No. 59,614; Nov. 8.
- Todd, Edward, Jr., New York, N. Y. Surface ornamentation for a pen, pencil, penknife, or similar article. No. 58,000; May 24; v. 286; p. 804.



- Todd, Edward, Jr., New York, N. Y. Surface ornamentation for a pen, pencil, penknife, or similar article. No. 58,001; May 24; v. 286; p. 804.
- Tomasulo, Epifanio V. N., Cincinnati, Ohio. Case for hair-cutting machines. No. 59,440; Oct. 18.
- Tomecek, Martin. (See Martinka, John K. and E. K., assignors.)
- Tomlinson, Edwin L., North Branch, Mich. Mud-guard. No. 57,799; May 3; v. 286; p. 158.
- Topper, Thomas J., San Francisco, Calif. Coffee-urn. No. 59,135; Sept. 20; v. 290; p. 595.
- Towle Manufacturing Company. (See Nock, Harold E., assignor.)
- Towle Manufacturing Company. (See Parker, George F., assignor.)
- Townsend, George F., Germantown, Pa., assignor to J. G. Chapman, New York, N. Y. Lace. No. 59,569; Nov. 1.
- Townsend, J. E., et al., trustees. (See Laws, Arthur J., assignor.)
- Townsend, Laura, Boston, Mass. Toy. No. 58,118; June 7; v. 287; p. 160.
- Tracey, Samuel L., Toronto, Ontario, Canada. Game-board. No. 58,264; June 28; v. 287; p. 737.
- Trautwein Corporation. (See Trautwein, Frederick, assignor.)
- Trautwein, Frederick, Freeport, assignor to Trautwein Corporation, Brooklyn, N. Y. Tire-tread. No. 57,065; Feb. 1; v. 283; p. 135.
- Travers, Anthony, Fairhaven, Mass. Radiator-cap ornament. No. 59,878; Nov. 29.
- Travis, John M., St. Louis, Mo. Beverage-dispensing apparatus. Nos. 57,949-52; May 17; v. 286; p. 590.
- Travis, John M., St. Louis, Mo. Beverage-dispensing apparatus. No. 59,043; Sept. 13; v. 290; p. 389.
- Travis, John M., St. Louis, Mo. Beverage-dispensing apparatus. Nos. 59,136-8; Sept. 20; v. 290; p. 595.
- Treese, Leo S., Detroit, Mich. Auto-lamp. No. 57,286; Mar. 8; v. 284; p. 339.
- Trilisch, Oscar W., Whitestone, N. Y. Display-box for bead necklaces. No. 57,747; Apr. 26; v. 285; p. 748.
- Trimboli, Tony, Uhrichsville, Ohio. Rubber heel. No. 57,874; May 10; v. 286; p. 380.
- Trimm, Leslie E., Brooklyn, N. Y. Automobile-wheel lock. No. 57,402; Mar. 15; v. 284; p. 557.
- Troast, William F., Lancaster, Pa. Vehicle-tire. No. 59,794; Nov. 22.
- Troger, Roland S., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Tire. No. 57,953; May 17; v. 286; p. 590.
- Troger, Roland S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. Nos. 59,441-3; Oct. 18.
- Troger, Roland S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. Nos. 59,139-67; Sept. 20; v. 290; pp. 595-602.
- Trout, Charles L., New York, N. Y. Wedding-ring. No. 58,956; Sept. 6; v. 290; p. 159.
- Tschantz, Elmer J., Canton, Ohio. Baking-iron. No. 58,050; May 31; v. 286; p. 1017.
- Tulloch, David M., Dunellen, N. J. Pipe-coupling. No. 59,942; Dec. 6.
- Tully, James K., assignor to Metallic Industries, Inc., St. Louis, Mo. Child's velocipede. No. 59,389; Oct. 11.
- Tully, James K., assignor to Metallic Industries, Inc., St. Louis, Mo. Child's velocipede. No. 60,071; Dec. 20.
- Tully, James K., assignor to Metallic Industries, Inc., St. Louis, Mo. Play-car. No. 60,072; Dec. 20.
- Tunison, Murray C., Oakland, Calif. Automobile-body. No. 57,800; May 3; v. 286; p. 158.
- Buttentaub, Abraham M., assignor to Sterling Button Co., New York, N. Y. Button. Nos. 57,450-5; Mar. 29; v. 284; pp. 915-16.
- Turnbull, Andrew, New Britain, Conn. Plane-block for chisels. No. 57,748; Apr. 26; v. 285; p. 748.
- Turtle, David, New York, N. Y. Printer's gage. No. 60,073; Dec. 20.
- Tuscan Tire & Rubber Company, The. (See McKone, Charles W., assignor.)
- Tuscora Rubber Company, The. (See Carnal, William D., assignor.)
- Tuskeloid Company. (See Mosauer, Harry D., assignor.)
- Tuttle & Bailey Mfg. Co. (See Bailey, James H., assignor.)
- Tweedie, Charles, Jefferson City, Mo. Anklet. Nos. 59,044-6; Sept. 13; v. 290; p. 389.
- Tweedie, Charles, Jefferson City, Mo. Boot-top. Nos. 59,047-8; Sept. 13; v. 290; p. 390.
- Tweedie, Charles, Jefferson City, Mo. Foot-band. Nos. 59,990-1; Dec. 13.
- Tweedie, Charles, Jefferson City, Mo. Foot-band. Nos. 60,074-5; Dec. 20.
- Tweedie Footwear Corporation. (See Tweedie, John, assignor.)
- Tweedie, John, St. Louis, assignor to Tweedie Footwear Corporation, Jefferson City, Mo. Infant's footwear. No. 58,051; May 31; v. 286; p. 1017.
- Tyler, Helen, and A. S. Pascal, New York, N. Y. Statuette. No. 59,978; Dec. 13.
- Tyndale, Elizabeth W. (See Tatum, M. T., and Tyndale.)
- Tyrrell, Wallace B., assignor to Bradley Knitting Company, Delavan, Wis. Knitted cap. No. 58,957; Sept. 6; v. 290; p. 159.
- Ubelmann, Mireille, Paris, France. Beauty-cream casket. No. 57,954; May 17; v. 286; p. 591.
- Ulbrich, Anthony H., Bloomington, Ill. Finger-ring. No. 59,694; Nov. 15.
- Ullman, Albert, assignor to Scott-Ullman Company, Cleveland, Ohio. Ring for lighting-fixtures. No. 59,992; Dec. 13.
- Ullman, Nathan, New York, N. Y. Toy painting outfit. No. 58,119; June 7; v. 287; p. 160.
- U. S. Industrial Alcohol Co. (See Whitaker Milton C., assignor.)
- Universal Boring Machine Company. (See Watson, Donald C., assignor.)
- Universal Shoe Plate Company, The. (See West, Mansfield M., assignor.)
- Unmack, Lucy G., Los Angeles, Calif. Lamp. No. 58,412; July 12; v. 288; p. 383.
- Untermeyer, Robbins & Co. (See Robbins, Meyer L., assignor.)
- Up to Date Machine Works. (See Tauscher, Harry J., assignor.)
- Upton, Clifford D., assignor to The Piqua Handle & Manufacturing Company, Piqua, Ohio. Color-mixer. No. 57,955; May 17; v. 286; p. 591.
- Usher, Ruth H., Brooklyn, N. Y. Doll. No. 57,025; Jan. 25; v. 282; p. 694.
- Vale, Baldwin. (See Atkinson, H. T., and Vale.)
- Valenzia, Leo, Baltimore, Md., assignor to The Maryland Toy Manufacturing Company, Incorporated. Ash-tray stand. No. 58,202; June 21; v. 287; p. 551.
- Van Bloem, Paul S., Hempstead, N. Y. Elevator-signal. Nos. 58,643-5; Aug. 2; v. 289; p. 145.
- Vance, Mitchell Co. (See Strahan, G. V., and Mathieu, assignors.)
- Van de Wall, Constant, New York, N. Y., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. No. 58,842; Aug. 30; v. 289; p. 981.
- Van Dohlan, Richard, Albuquerque, N. Mex., assignor of one-half to L. P. Hilderbrand, Cooley, Ariz. Watch-chain. No. 59,307; Oct. 4.
- Van Dommelen, Peter, Grand Rapids, Mich. Combination desk and table. No. 60,077; Dec. 20.
- Van Guilder, Walter, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Radiator-cap. Nos. 59,390-1; Oct. 11.
- Van Guilder, Walter, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Radiator-cap with temperature-indicator. No. 59,392; Oct. 11.
- Van Kuren, William J., Binghamton, assignor to Central Flatiron Mfg. Co., Johnson City, N. Y. Tire-chain tool. No. 57,549; Apr. 12; v. 285; p. 347.
- Van Orsdale, Allen A., and J. B. Linn, Philadelphia, Pa. Lubricator. No. 58,169; June 14; v. 287; p. 359.
- Van Osdal, William J., assignor of one-half to L. Sperling, Chicago, Ill. Handle for a hair-cutter. No. 58,843; Aug. 30; v. 289; p. 981.
- Van Shrum, William H., Columbus, Ohio. Flying toy. No. 57,447; Mar. 29; v. 284; p. 915.
- Van Veen, Arthur L., New York, N. Y. Bracket. No. 57,287; Mar. 8; v. 284; p. 339.
- Varnhagen, Siegfried J., San Francisco, Calif. Child's garment or romper. No. 59,570; Nov. 1.
- Vathé, Francois, New York, N. Y. Doll. No. 60,076; Dec. 20.
- Vedutis, Frank A., Millburn, N. J. Shovel. No. 60,115; Dec. 27.
- Verona Tool Works. (See Richardson, Andrew T., assignor.)
- Vesely, Rudolph, Chicago, Ill. Edible candy or cake confection. No. 59,993; Dec. 13.
- Vester, Alfred Sons. (See Howell, Hamilton T., assignor.)
- Vester, Alfred Sons, Inc. (See Schulze, John W., assignor.)
- Viall, Job, Schaghticoke, N. Y. Ice-creeping plate. No. 59,308; Oct. 4.
- Vick, Daniel P., Seattle, Wash. Combination lifting-jack and vise. No. 58,646; Aug. 2; v. 289; p. 145.
- Victor Rubber Company, The. (See Talbott, Frank R., assignor.)
- Victory Manufacturing Co. (See Banks, John D., assignor.)
- Vidulich, Matthew G., Jersey City, N. J., assignor to George Borgfeldt & Co., New York, N. Y. Bottle. No. 59,309; Oct. 4.
- Vilander, Anna L., New York, N. Y. Clasp or hook for a waist-belt. No. 59,795; Nov. 22.
- Viriden, John C., Cleveland, Ohio. Chain-loop. No. 58,002; May 24; v. 286; p. 804.
- Visible Measure Gasoline Dispenser Company of America. (See Brady, James H., assignor.)
- Vits, Albert J., Manitowoc, Wis. Syrup-jug. No. 57,486; Apr. 5; v. 285; p. 158.
- Vits, Albert J., Manitowoc, Wis. Pitcher. No. 57,487; Apr. 5; v. 285; p. 158.
- Vivaudou, Victor, New York, N. Y. Container. No. 57,488; Apr. 5; v. 285; p. 158.
- Vivaudou, Victor, New York, N. Y. Bottle. No. 59,994; Dec. 13.
- Vivian, Harry. (See Rice, Richard, assignor.)



- Vodicka, Thomas E. (See Stadnick, Rudolph L., assignor.)
- Voight, Henry G., New Haven, Conn. Tire-carrier. No. 57,801; May 3; v. 286; p. 158.
- Voorhees, Carl, Florida, Ind. Toy coaster. No. 58,170; June 14; v. 287; p. 360.
- Voye, Louis, McDonald, Pa. Automobile-signal. No. 59,444; Oct. 18.
- Wabash Basket Company. (See Loewenberg, Isador E., assignor.)
- Wack, Erik A., Sycamore, Ill. Tailor's shears. No. 57,749; Apr. 26; v. 285; p. 749.
- Waddell, John M., Greenfield, Ohio. Phonograph-case. Nos. 58,647-8; Aug. 2; v. 289; p. 146.
- Waddell, Sanford R., Toronto, Ontario, Canada. Form for bow-ties. No. 58,958; Sept. 6; v. 290; p. 159.
- Wade, William M., Topeka, Kans. Advertising-cabinet. No. 58,844; Aug. 30; v. 289; p. 981.
- Wadsworth, Arthur W., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watch-case-bow. No. 57,875; May 10; v. 286; p. 380.
- Wadsworth Watch Case Company, The. (See Wadsworth, Arthur W., assignor.)
- Waggoner, Albertus B., assignor to Pennsylvania Sales and Export Co., Philadelphia, Pa. Lighting-globe. No. 58,171; June 14; v. 287; p. 360.
- Wagner, Ernest A., Gardiner, Me. Baby-bootee. No. 57,288; Mar. 8; v. 284; p. 339.
- Wagner, Ernest A., Gardiner, Me. Bathing-shoe. No. 47,289; Mar. 8; v. 284; p. 340.
- Wagner, Ernest A., Gardiner, Me. Slipper. No. 57,456; Mar. 29; v. 284; p. 916.
- Wahl Company, The. (See Wahl, John C., assignor.)
- Wahl Company, The. (See Worthy, J. H., and Lund, assignors.)
- Wahl, Company, The. (See Worthy, John H., assignor.)
- Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Pen or pencil case. Nos. 57,403-5; Mar. 15; v. 284; p. 557.
- Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Pen or pencil case. No. 58,516; July 26; v. 288; p. 780.
- Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Pen or pencil case. No. 58,693; Aug. 9; v. 289; p. 374.
- Waite Grass Carpet Company. (See Clements, Albert F., assignor.)
- Waite Grass Carpet Company. (See Fauser, Gustave M., assignor.)
- Waite Grass Carpet Company. (See Sokolsky, Selma, assignor.)
- Waite Grass Carpet Company. (See Van de Wall, Constant, assignor.)
- Waite Grass Carpet Company. (See Wight, Blanche L., assignor.)
- Wakeham, Gertrude, Marshall, Wis. Sled. No. 59,797; Nov. 22.
- Waldbaum, Harry, Philadelphia, Pa. Cap. No. 59,528; Oct. 25.
- Waldo, Algernont H., St. Paul, Minn. Rug. No. 57,406; Mar. 15; v. 284; p. 558.
- Waldo, Algernont H., St. Paul, Minn., assignor to Crex Carpet Company, New York, N. Y. Rug. Nos. 57,550-7; Apr. 12; v. 285; pp. 347-9.
- Waldorf System Incorporated. (See Whorf, Harry C., assignor.)
- Walker, Ernest A., assignor to Artercraft Fixture Company, Newark, N. J. Plate for lighting-fixtures. No. 57,956; May 17; v. 286; p. 591.
- Walker, Ernest A., assignor to Artercraft Fixture Company, Newark, N. J. Plate for lighting-fixtures. No. 57,957; May 17; v. 286; p. 591.
- Walker, Ernest A., assignor to Artercraft Fixture Company, Newark, N. J. Plate for lighting-fixtures. No. 58,120; June 7; v. 287; p. 161.
- Walker, Ernest A., assignor to Artercraft Fixture Company, Newark, N. J. Plate for lighting-fixtures. No. 58,517; July 26; v. 288; p. 780.
- Walker, Frederick W., Royal Oak, assignor to Packard Motor Car Company, Detroit, Mich. Bezel or similar device. No. 57,876; May 10; v. 286; p. 380.
- Walker, Hervey S., Rydal, Pa. Conduit-bushing. No. 57,407; Mar. 15; v. 284; p. 558.
- Walsh, Owen Mfg Co. (See Giammarino, Joseph, assignor.)
- Walter, George, Baltimore, Md. Badge, button, or pin. No. 58,649; Aug. 2; v. 289; p. 146.
- Walter, Robert, St. Louis, Mo. Basket. Nos. 59,695-6; Nov. 15.
- Walter, Robert and R. P., Jr., St. Louis, Mo. Basket. No. 59,697; Nov. 15.
- Walter, Robert P., Jr. (See Walter, Robert and R. P., Jr.)
- Wanner, Albert, Jr., New York, N. Y. Chair. No. 57,877; May 10; v. 286; p. 380.
- Wanner, Albert, Jr., New York, N. Y. Chair. No. 56,951; Jan. 18; v. 282; p. 537.
- Ward, Artemas, Jr., Detroit, Mich. Instrument-board for automobiles. No. 57,026; Jan. 25; v. 282; p. 694.
- Ward, Neil C., Chicago, Ill. Dispensing apparatus or article of similar nature. Nos. 57,457-8; Mar. 29; v. 284; pp. 916-7.
- Ward, James A., Chicago, Ill. Bank. No. 57,958; May 17; v. 286; p. 591.
- Warner, Jesse J., Canton, Ohio. Phonograph-cabinet. No. 57,959; May 17; v. 286; p. 591.
- Warren, Arthur G., Worcester, Mass. Emblematic badge, pin, or button. No. 59,796; Nov. 22.
- Washerette Corporation. (See Finucane, John J., assignor.)
- Washington, William L., East Youngstown, Ohio. Emergency-tank for automobiles. No. 58,172; June 14; v. 287; p. 360.
- Waslow, Sergey, Baxter, W. Va. Amulet. No. 56,901; Jan. 4; v. 282; p. 168.
- Waterman, Mabel, New Rochelle, N. Y. Toy rabbit known as Peter Bunny. No. 58,413; July 12; v. 288; p. 883.
- Waters, Reginald H., Akron, Ohio, assignor to Kelly-Springfield Tire Company, New York, N. Y. Vehicle-tire. No. 57,878; May 10; v. 286; p. 380.
- Waters, Reginald H., Cumberland, Md., assignor to Kelly-Springfield Tire Company, New York, N. Y. Vehicle-tire. No. 59,310; Oct. 4.
- Watkins, J. R., Company, The. (See Campbell, Edward L., assignor.)
- Watrous, Earl G., Chicago, Ill. Liquid-soap pump. No. 57,175; Feb. 22; v. 283; p. 721.
- Watson, Charles G., Alma, Mich. Match-box holder. No. 57,750; Apr. 26; v. 285; p. 749.
- Watson Company, The. (See Woodward, F. Russell, assignor.)
- Watson, Donald C., Weston, assignor to Universal Boring Machine Company, Hudson, Mass. Level. No. 59,943; Dec. 6.
- Waugh, Coulton, New York, N. Y. Textile fabric for decorative purposes. No. 56,902; Jan. 4; v. 282; p. 168.
- Wayne Oil Tank and Pump Company. (See Baker, Linnaeus E., assignor.)
- Weaver, Orlando L., assignor to The Star Rubber Company, Akron, Ohio. Tire-casing. No. 57,408; Mar. 15; v. 284; p. 558.
- Webb, Charles B., Cleveland, Ohio. Oil-burner body. No. 59,995; Dec. 13.
- Webb, Jesse H., Rochester, N. Y. Rocking-horse. Nos. 57,558-9; Apr. 12; v. 285; p. 349.
- Webb, Jesse H., Rochester, N. Y. Rocking-horse. No. 57,751; Apr. 26; v. 285; p. 749.
- Webber, Gardner M., Stoneham, Mass. Name-plate. No. 57,752; Apr. 26; v. 285; p. 749.
- Weber, John H., and J. B. Sturtevant, Los Angeles, Calif. Signal-light for automobiles. No. 59,439; Oct. 18.
- Weed, Edward L., assignor to Potter & Buffinton Company, Providence, R. I. Charm. No. 59,529; Oct. 25.
- Weed, Edward L., assignor to Potter & Buffinton Company, Providence, R. I. Charm. No. 59,798; Nov. 22.
- Weed, Edward L., assignor to Potter & Buffinton Company, Providence, R. I. Charm. No. 59,996; Dec. 13.
- Weed, Edward L., Providence, R. I. Precious, semiprecious, or synthetic stone. No. 59,997; Dec. 13.
- Wegenaar, Louis A., Brooklyn, N. Y. Receptacle for toilet powder. Nos. 58,265-75; June 28; v. 287; pp. 737-8.
- Wegenaar, Louis A., Brooklyn, N. Y. Receptacle for toilet powder and other commodities. No. 59,311; Oct. 4.
- Wegman, Ulric, Ithaca, N. Y. Headlight-lens. No. 58,845; Aug. 30; v. 289; p. 982.
- Wehrheim, Louis. (See Clark, William C. and E. C., and Wehrheim.)
- Weidlich Bros. Mfg. Co., The. (See Flaender, Alfred J., assignor.)
- Weiler, Edward G., assignor to The Electric Vulcanizing Rubber Company, Cleveland, Ohio. Tire. No. 59,049; Sept. 13; v. 290; p. 390.
- Weinberger, Harry H. (See Foltz, Stewart P., assignor.)
- Weinberger, Harry H. (See Hollister, Dimock W., assignor.)
- Welch, Howard C. (See Stipes, R. B., Goodwin, and Welch.)
- Weldon, Green J., Anniston, Ala. Vehicle-body. No. 59,393; Oct. 11.
- Wells, Henry, New York, N. Y. Bow-clasp or similar article. No. 59,050; Sept. 13; v. 290; p. 390.
- Weller, Walter A., assignor to Charles Polacheck & Brothers Company, Milwaukee, Wis. Lighting-fixture. Nos. 58,276-8; June 28; v. 287; p. 739.
- Wellman, Lester R., assignor to Friedly Voshardt Co., Chicago, Ill. Lamp-base. No. 57,176; Feb. 22; v. 283; p. 721.
- Wellman, Lester R., assignor to Friedly Voshardt Co., Chicago, Ill. Two-light shower-plate. No. 57,802; May 3; v. 286; p. 153.
- Wellman, Lester R., assignor to Friedly Voshardt Co., Chicago, Ill. Plate for lighting-fixtures. No. 57,803; May 3; v. 286; p. 158.
- Wellman, Lester R., Chicago, Ill. Bowl-hook for lighting-fixtures. No. 58,003; May 24; v. 286; p. 804.
- Wellman, Lester R., assignor to Friedly Voshardt Co., Chicago, Ill. Ceiling-holder. No. 58,650; Aug. 2; v. 289; p. 146.
- Wendland, Louis C., Oakland, Calif. Radius-rod for vehicles. No. 58,959; Sept. 6; v. 290; p. 159.
- Wentworth, Philip C., assignor to National Ring Traveler Co., Providence, R. I. Paper-weight. No. 58,651; Aug. 2; v. 289; p. 146.
- Wentz, Jere L., Passaic, N. J. Dish or receptacle. No. 56,903; Jan. 4; v. 282; p. 168.
- Wentz, Jere L., Passaic, N. J. Soap-muff. No. 56,904; Jan. 4; v. 282; p. 168.



- West, Bina M., Port Huron, Mich. Brooch. No. 59,799; Nov. 22.
- West, Clare, assignor to C. B. de Mille, Los Angeles, Calif. Cloak. No. 59,571; Nov. 1.
- West, George R., Pittsburgh, Pa., assignor to The Diamond Match Company, Chicago, Ill. Combination-match and ash tray. No. 58,052; May 31; v. 286; p. 1017.
- West, Mansfield M., assignor to The Universal Shoe Plate Company, Cleveland, Ohio. Shoe-plate. No. 59,394; Oct. 11.
- West, Merle J., assignor to Simplex Alarm Company, Milwaukee, Wis. Gong-casing. No. 58,846; Aug. 30; v. 289; p. 982.
- West, Ralph H., assignor to The West Steel Castings Company, Cleveland, Ohio. Vehicle-wheel. No. 58,279; June 28; v. 287; p. 739.
- West Steel Castings Company, The. (See West, Ralph H., assignor.)
- Western Electric Company. (See McLarn, Ernest S., assignor.)
- Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)
- Westinghouse Lamp Company. (See Blackwell, William T., assignor.)
- Westinghouse Lamp Company. (See Paletou, Leon S., assignor.)
- Westinghouse Lamp Company. (See Van Voorhis, Cletus C., assignor.)
- Westmont, John C., assignor to The Wisconsin Farm Tractor Company, Sauk City, Wis. Tractor. No. 58,280; June 28; v. 287; p. 739.
- Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Plate for lighting-fixtures. No. 57,027; Jan. 25; v. 282; p. 694.
- Westphal, Gottfried, Guttenberg, N. J., assignor to Shapiro & Aronson, Inc., New York, N. Y. Plate for lighting-fixtures. No. 57,753; Apr. 26; v. 285; p. 749.
- Westphal, Gottfried, Lakewood, N. J., assignor to McPhilen Lighting Fixture Company, New York, N. Y. Arm for a lighting fixture. Nos. 60,116-18; Dec. 27.
- Wheaton, Theodore C., Jr., Washington, D. C., assignor to S. Sternau & Company, Brooklyn, N. Y. Bottle. No. 58,121; June 7; v. 287; p. 161.
- Wheeling Stamping Company. (See Paull, Archibald W., assignor.)
- Whipple, Dorris W. (See Mitchell, Harold D., assignor.)
- Whipple, Dorris W., assignor to Keystone Tire and Rubber Company, New York, N. Y. Rubber tire. No. 58,847; Aug. 30; v. 289; p. 982.
- Whitaker, Lawrence L., and J. Lochrie, Windber, Pa. Toy. No. 56,952; Jan. 18; v. 282; p. 537.
- Whitaker, Milton C., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Fuel-container. No. 58,281; June 28; v. 287; p. 739.
- White, D'Orsay M., assignor to La Fayette Motors Company, Indianapolis, Ind. Headlight. No. 58,122; June 7; v. 287; p. 161.
- White, Ernest C., assignor to Electric Outlet Company, Inc., New York, N. Y. Electrical-receptacle plate. Nos. 56,953-5; Jan. 18; v. 282; p. 538.
- White, Ernest C., assignor to Electric Outlet Company, Inc., New York, N. Y. Electrical receptacle. No. 58,518; July 26; v. 288; p. 780.
- White, Harry Z., Buffalo, N. Y. Glass spark-plug insulator. No. 57,028; Jan. 25; v. 282; p. 694.
- White, Henry, Milnor, N. D. Clothespin. No. 59,445; Oct. 18.
- White, J. H., Manufacturing Company. (See Kahns, Walter R., assignor.)
- White & Wyckoff Manufacturing Company. (See Linscott, Louis R., assignor.)
- Whitnell, Charles O., Des Moines, Iowa. Ventilator. No. 59,879; Nov. 29.
- Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Instrument-mount for an automobile instrument-board. No. 57,754; Apr. 26; v. 285; p. 749.
- Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 58,005; May 24; v. 286; p. 805.
- Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Radiator-cap. No. 58,848; Aug. 30; v. 289; p. 982.
- Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Radiator-cap. No. 59,395; Oct. 11.
- Whorf, Harry C., Winthrop, assignor to Waldorf System Incorporated, Boston, Mass. Plate or similar article of tableware. No. 59,446; Oct. 18.
- Wiberg, Peter E., Glen Ridge, N. J. Collar-clasp or similar article. No. 58,123; June 7; v. 287; p. 161.
- Widmer, Charles A., Paterson, N. J. Indicator, sign, or similar article. No. 58,282; June 28; v. 287; p. 740.
- Wichert, Frank T., Lakewood, Ohio. Soda-fountain. No. 58,652; Aug. 2; v. 289; p. 146.
- Wiener, Martin L., Akron, Ohio, assignor to The Oldfield Tire Company, Cleveland, Ohio. Pneumatic tire. No. 57,290; Mar. 8; v. 284; p. 340.
- Wiger, Bernard, Newark, N. J. Manicure implement. No. 58,519; July 26; v. 288; p. 780.
- Wight, Blanche L., Oak Park, Ill., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. Nos. 58,849-55; Aug. 30; v. 289; pp. 982-3.
- Wilcox, John L., Seattle, Wash. Attachment for chairs. No. 57,560; Apr. 12; v. 285; p. 350.
- Wilcox, Urquhart, Buffalo, N. Y. Chair. No. 58,960; Sept. 6; v. 290; p. 159.
- Wilcox, Urquhart, Buffalo, N. Y. Table. No. 58,961; Sept. 6; v. 290; p. 159.
- Wilcox, Urquhart, Buffalo, N. Y. Doll. No. 59,051; Sept. 13; v. 290; p. 391.
- Wiley, Wilson F., and Adolph Reinsberg, Salt Lake City, Utah. Tire-tread. No. 59,312; Oct. 4.
- Willenborg, Carl J., Jr., Hoboken, N. J. Talking-machine box. No. 58,004; May 24; v. 286; p. 805.
- Willer, Eric F., assignor to Charles Abresch Co., Milwaukee, Wis. Automobile-body. No. 58,173; June 14; v. 287; p. 360.
- Willman, Herman V., Maywood, Ill. Lighting-fixture-bowl support. No. 57,755; Apr. 26; v. 285; p. 750.
- Williams, A. C., Company, The. (See Bigalow, James H., assignor.)
- Williams, Ardie, assignor of one-half to E. A. Parkford and H. Boyer, Los Angeles, Calif. Wind-deflector. No. 57,804; May 3; v. 286; p. 158.
- Williams Brothers Manufacturing Company, The. (See Smith, Irving V., assignor.)
- Williams, Clara E., New York, N. Y. Lamp-shade. No. 58,124; June 7; v. 287; p. 161.
- Williams, Earl B. (See Rieg, B. E., and Williams.)
- Williams Foundry & Machine Company, The. (See Holcomb, Frank E., assignor.)
- Williams, John G., West Brownsville, Pa. Tool. No. 59,396; Oct. 11.
- Williams, Lisle C., Minneapolis, Minn. Steering-post and wheel for a coaster. No. 59,944; Dec. 6.
- Williams, Mary A., New York, N. Y. Petticoat. No. 58,414; July 12; v. 288; p. 383.
- Willmann, Max J., Milwaukee, Wis. Pincushion. No. 68,962; Sept. 6; v. 290; p. 160.
- Williams, Nim, Ashland, Ky. Combined hat and coat rack and umbrella-stand. No. 57,066; Feb. 1; v. 283; p. 135.
- Williams, Orr H., Columbus, Ohio. Automobile-tire. No. 57,879; May 10; v. 286; p. 381.
- Williams, Theodosius A., Battle Ground, Wash. Spoon-handle. No. 58,520; July 26; v. 288; p. 781.
- Williams, William E., Chicago, Ill. Disk for disk wheels. No. 58,856; Aug. 30; v. 289; p. 983.
- Willson, Frederick, assignor to Willson Goggles Inc., Reading, Pa. Respirator filter-ring. No. 60,078; Dec. 20.
- Willson Goggles Inc. (See Willson, Frederick, assignor.)
- Wilner, Max, assignor to Henry Glass & Co., New York, N. Y. Article of manufacture. Nos. 57,291-2; Mar. 8; v. 284; p. 340.
- Wilson & Bennett Mfg. Co. (See Wilson, James H., assignor.)
- Wilson, Charles R., Charleston, W. Va. Highway-sign. No. 59,698; Nov. 15.
- Wilson, Clio K., Aurora, Ill. Dress, apron, or like garment. No. 57,293; Mar. 8; v. 284; p. 340.
- Wilson, Ernest L., Ashton, Preston, England, assignor of one-half to H. G. Wilson, London, England. Curtain-fitting. No. 59,998; Dec. 13.
- Wilson, Frederick W., New York, N. Y. Sign. No. 57,756; Apr. 26; v. 285; p. 750.
- Wilson, Harold G. (See Wilson, Ernest L., assignor.)
- Wilson, James, Pueblo, Colo. Cleaning and alining device for gin and delinter saw teeth. No. 57,561; Apr. 12; v. 285; p. 350.
- Wilson, James H., assignor to Wilson & Bennett Mfg. Co., Chicago, Ill. Pail. No. 58,053; May 31; v. 286; p. 1018.
- Wilson, Mary F. F., New Rochelle, N. Y. Lamp-shade. No. 59,800; Nov. 22.
- Wilson, Miles, Canastota, assignor to G. E. Chambers, Oneida, N. Y. Toothpick-vender. No. 58,653; Aug. 2; v. 289; p. 147.
- Wilson, Thomas, & Co. (See Binch, Herbert, assignor.)
- Wilson, Thomas F., Providence, R. I. Crank-case arm. No. 59,397; Oct. 11.
- Wilson, William G., West Brighton, N. Y. Pastry-lifter. No. 59,313; Oct. 4.
- Winder, Samuel E., assignor to Novelty Cup & Cone Company, Chicago, Ill. Edible dessert-cup. No. 57,177; Feb. 22; v. 283; p. 722.
- Winemiller, Clarence M., Washington, D. C. Stand for flowers. No. 60,079; Dec. 20.
- Winsen, Jose, Detroit, Mich. Finger-ring. No. 59,314; Oct. 4.
- Winslow Bros., & Smith Co. (See Brandt, Carl, assignor.)
- Wire Wheel Corporation of America. (See House, Henry A., Jr., assignor.)
- Wisconsin Chair Company, The. (See Moeser, Otto E., assignor.)
- Wisconsin Farm Tractor Company, The. (See Westmont, John C., assignor.)
- Wise, Benjamin, New York, N. Y. Telephone-receiver holder. No. 59,801; Nov. 22.
- Wise, Benjamin, New York, N. Y. Telephone-receiver attachment. No. 60,080; Dec. 20.
- Wishnefsky, Nathan, Philadelphia, Pa. Scarf. No. 58,857; Aug. 30; v. 289; p. 984.
- Wisser, Rose, New York, N. Y. Picture-frame. No. 57,029; Jan. 25; v. 282; p. 695.



## Alphabetical list of patentees of designs—Continued.

- Wittstein, Charles T., Newark, N. J. Phonograph-cabinet. No. 57,459; Mar. 29; v. 284; p. 917.
- Wittstein, Charles T., Newark, N. J. Portable electric-light support. No. 58,006; May 24; v. 286; p. 805.
- Wittstein, Charles T., Newark, N. J. Phonograph-cabinet. No. 58,125; June 7; v. 287; p. 161.
- Wittstein, Charles T., Newark, N. J. Phonograph-cabinet. Nos. 58,963-78; Sept. 6; v. 290; pp. 160-3.
- Wittstein, Charles T., Newark, N. J. Phonograph-cabinet. No. 59,802; Nov. 22.
- Wittstein, Francis H., Newark, N. J. Flinger-ring. Nos. 58,979-80; Sept. 6; v. 290; p. 164.
- Wittstein, Francis H., Newark, N. J. Finger ring, bracelet, or the like. Nos. 58,981-2; Sept. 6; v. 290; p. 164.
- Woerner, William J. (See Pfeiffer, William L., assignor.)
- Wohlauer, Alfred A., New York, N. Y. Lighting-fixture. No. 56,956; Jan. 18; v. 282; p. 538.
- Wojcik, Stanley, Orenco, Oreg. Toy. No. 58,054; May 31; v. 286; p. 1018.
- Wolak, Mike, Rochester, N. Y. Phonograph. No. 57,409; Mar. 15; v. 284; p. 558.
- Wolf, Morris, New York, N. Y. Sifter-top receptacle. No. 58,654; Aug. 2; v. 289; p. 147.
- Wolf, Morris, New York, N. Y. Sifter-top receptacle. No. 58,858; Aug. 30; v. 289; p. 984.
- Wolfe, John G., Chicago, Ill. Automobile-tire. No. 57,880; May 10; v. 286; p. 381.
- Wolfe, William S. (See Kilborn, K. B., and Wolfe.)
- Wolfe, William S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. No. 59,803; Nov. 22.
- Wolff, Joseph, New York, N. Y., assignor to Sonora, Inc. Phonograph-cabinet. No. 57,178; Feb. 22; v. 283; p. 722.
- Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora, Inc. Phonograph-cabinet. Nos. 58,655-6; Aug. 2; v. 289; p. 147.
- Wolkow, I. Leo, Louisville, Ky. Radiator-cap. No. 57,805; May 3; v. 286; p. 158.
- Wolter, Herman H., assignor to Edward Miller & Company, Meriden, Conn. Support for a lamp or similar article. No. 59,168; Sept. 20; v. 290; p. 602.
- Wolter, Herman H., assignor to Edward Miller & Company, Meriden, Conn. Lamp. Nos. 59,169-70; Sept. 20; v. 290; p. 602.
- Wood, Annie, Winnipeg, Manitoba, Canada. Display-stand. No. 58,983; Sept. 6; v. 290; p. 164.
- Wood, Charles P., Syracuse, N. Y. Toy cart. No. 57,067; Feb. 1; v. 283; p. 135.
- Wood, Samuel J., Los Angeles, Calif. Bottle. No. 58,174; June 14; v. 287; p. 360.
- Woodard, Frank W. (See Kingston, R. E., and Woodard.)
- Woodard, Louis, K., Mt. Vernon, N. Y. Radiator-cap ornament. No. 58,283; June 28; v. 287; p. 740.
- Woodberry, Charles C., Cincinnati, Ohio. Automobile-radiator curtain-hood. No. 59,398; Oct. 11.
- Woodis, C. H., et al. (See Swihart, Elmer E., assignor.)
- Woods, William E., and L. A. Benson, St. Louis, Mo. Casing for a rotary spark-gap. No. 58,859; Aug. 30; v. 289; p. 984.
- Woods, Wilson R., Los Angeles, and J. F. Langston, Lancaster, Calif. Frame for a meat-cutting machine. No. 59,315; Oct. 4.
- Woodward, F. Russell, assignor to The Watson Company, Attleboro, Mass. Handle for spoon, fork, or similar article. No. 57,197; Mar. 1; v. 284; p. 146.
- Woodward, Robert S. (See Russell, P., Schramm, and Woodward.)
- Wooler, Ernest, assignor to Cleveland Automobile Company, Cleveland, Ohio. Window, name-plate, or article of similar nature. No. 56,905; Jan. 4; v. 282; p. 168.
- Wooten, Carrol R., assignor to Daylite Lens Company, Dallas, Tex. Lens for headlight. No. 57,757; Apr. 26; v. 285; p. 750.
- Worms, Sidney, New Rochelle, assignor to Franklin Knitting Mills, New York, N. Y. Knitted or netted fabric. Nos. 58,521-5; July 26; v. 288; p. 781.
- Worms, Sidney, New Rochelle, assignor to Franklin Knitting Mills, New York, N. Y. Knitted or netted fabric. No. 58,860; Aug. 30; v. 289; p. 984.
- Worsnop, Charles H., Halifax, England. Sheet-metal stock for making cells or containers for electrical accumulators. No. 59,804; Nov. 22.
- Worthy, John H., Elgin, Ill., assignor to The Wahl Company, Wilmington, Del. Pen or pencil case. No. 58,694; Aug. 9; v. 289; p. 374.
- Worthy, John H., Elgin, and C. W. Lund, Chicago, Ill., assignors to The Wahl Company, Wilmington, Del. Pen and pencil case. No. 59,052; Sept. 13; v. 290; p. 391.
- Wright, Bartholomew O., New Rochelle, N. Y. Umbrella and parasol tip. No. 58,861; Aug. 30; v. 289; p. 984.
- Wright, Francis M., et al. (See Parker, Ralph D., assignor.)
- Wright, Frank M., Albany, N. Y. Jewelry-box. Nos. 59,615-16; Nov. 8.
- Wröbel, Jan. (See Haladey, A., and Wröbel.)
- Wuesthoff, Maximilian W., San Francisco, assignor to Standard Brass Casting Co., Oakland, Calif. Bath cock. No. 59,399; Oct. 11.
- Wurm, Henry G., Yonkers, N. Y. Leather, wall-paper, or similar article of manufacture. Nos. 59,880-1; Nov. 29.
- Wurth, William, Cleveland, Ohio. Display device. No. 58,296; July 5; v. 288; p. 165.
- Wyeth, Nathaniel, Cleveland Heights, Ohio. Vehicle spring suspension. No. 59,400; Oct. 11.
- Yale Tire & Rubber Co. (See Phillips, Ernest, assignor.)
- Yen, Lew, San Francisco, Calif. Basket. No. 60,119; Dec. 27.
- Yockey, Edward, Milwaukee, Wis. Tire. No. 57,731; Apr. 26; v. 285; p. 746.
- Yockey, Edward, Milwaukee, Wis. Tire. No. 57,758; Apr. 26; v. 285; p. 750.
- Yokel, Frank, Hartford, Conn. Toy bank. No. 58,862; Aug. 30; v. 289; p. 984.
- Yost, Helen S., assignor to Batavia Rubber Company, Batavia, N. Y. Tire-tread. No. 58,984; Sept. 6; v. 290; p. 164.
- Zamsky, Harry, and S. Levy, New York, N. Y. Utility-stand for desks. No. 58,415; July 12; v. 288; p. 384.
- Zapffe, Carl E., Seattle, Wash. Cigar-cutter. No. 58,175; June 14; v. 287; p. 360.
- Zbkowski, Joseph, Cleveland, Ohio. Whirling toy. No. 58,526; July 26; v. 288; p. 781.
- Zdanowicz, Stanislaw, Aquebogue, N. Y. Combination fountain-pen and pencil. No. 59,945; Dec. 6.
- Zebra, Willy, New York, N. Y. Match-box. No. 59,447; Oct. 18.
- Zelick, Louis, Philadelphia, Pa. Combined eraser and pencil-sharpener. No. 59,530; Oct. 25.
- Zidell, Martha L., assignor to Patsy Frok & Romper Co., Los Angeles, Calif. Child's garment. No. 57,294; Mar. 8; v. 284; p. 340.
- Ziegler, Alfred M., Newton, Mass. Garment-supporter. No. 58,416; July 12; v. 288; p. 384.
- Zimmermann, Edward, Jr., Fairview, N. J. Reflector. No. 59,448; Oct. 18.
- Zimmerman, Marguerite M., assignor of one-half to A. S. Simmons, Kansas City, Mo. Doll. No. 59,999; Dec. 13.
- Zion Institutions and Industries. (See Cobb, William M., assignor.)
- Zoldo, Frank, New York, N. Y. Jewelry—namely, a finger-ring or article of similar nature. No. 59,316; Oct. 4.
- Zopf, Joseph, Elmira, N. Y. Game apparatus. No. 59,531; Oct. 25.
- Zwebell, Albert R., assignor to Bub Body Corporation, Milwaukee, Wis. Automobile-body. No. 58,912; Sept. 6; v. 290; p. 150.
- Zylka, Paul R., Kalispell, Mont. Combination-tool. No. 57,097; Feb. 8; v. 283; p. 326.

## ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

- A. P. W. Paper Co., Albany, N. Y. Toilet-paper and paper towels. No. 145,032; July 26; v. 288; p. 811.
- A. P. W. Paper Company, Albany, N. Y. Toilet-paper, paper napkins and towels. No. 145,882; Aug. 16; v. 289; p. 601.
- A. P. W. Paper Co., Albany, N. Y. Toilet-paper. No. 146,414; Sept. 6; v. 290; p. 205.
- A. P. W. Paper Company, Albany, N. Y. Toilet, tissue, and crape paper and paper towels. No. 148,201; Nov. 8.
- A/S Det Almindelige Handelskompagni, Copenhagen, Denmark. Dried fruits, canned fruits, and fish. No. 145,108; July 26; v. 288; p. 813.
- A/S Trondhjem Canning and Export Co., Buran, Trondhjem, Norway. Canned fish. No. 148,283; Nov. 8.
- Aachener Thermalwasser "Kaiserbrunnen" Aktiengesellschaft, Aachen, Germany. Natural thermal water. No. 148,775; Nov. 29.
- Aaron Newmark, Inc., New York, N. Y. Women's muslin and silk underwear. No. 141,065; Apr. 12; v. 285; p. 379.
- Abbé, Paul O., Inc., New York, N. Y. Crushing, cutting, grinding, mixing, pulverizing, and sifting machinery. Nos. 140,724-5; Mar. 29; v. 284; p. 941.
- Abbe, Paul O., Inc., New York, N. Y. Crushing, cutting, grinding, mixing, pulverizing, and sifting machinery. No. 141,305; Apr. 19; v. 285; p. 565.
- Abbott, A. Theo., & Co., Philadelphia, Pa. Fiber fabric imitating silk in the piece and draperies, table-covers, pillow-tops, &c. No. 146,023; Aug. 23; v. 289; p. 791.
- Abbott, A. Theo., & Co., Philadelphia, Pa. Fiber fabric imitating silk in the piece and draperies, table-covers, &c. No. 146,415; Sept. 6; v. 290; p. 205.
- Abbott, C. W., & Co., Inc., Baltimore, Md. Aromatic bitters. No. 141,822; May 3; v. 286; p. 181.
- Abbott Laboratories, The, Chicago, Ill. Anesthetics. No. 138,767; Jan. 11; v. 282; p. 375.
- Abbott Laboratories, The, Chicago, Ill. Chemical sterilizer, deodorizer, and cleanser. No. 145,589; Aug. 16; v. 289; p. 591.



- Abbott Laboratories, The, Chicago, Ill. Anesthetic compound. No. 147,893; Nov. 8.
- Abbott, Welcome A., Lamont, Iowa. Medicinal preparation for treatment of rheumatism and neuritis. No. 142,909; May 24; v. 286; p. 843.
- Abelardo Queralto, S. en C., Habana, Cuba. Corsets, garters, girdles, bust-confiners, &c. No. 149,809; Dec. 20.
- Abele, Joseph B., Philadelphia, Pa. Game consisting of a perforated game board with movable plugs therein. No. 142,400; May 17; v. 286; p. 623.
- Abell, Lewis P., Los Angeles, Calif. Prints, photographs, drawings. No. 140,309; Mar. 15; v. 284; p. 579.
- Abell, N. Douglas, Louisville, Ky. Pills used for auto-intoxication, bad breath, &c. No. 140,726; Mar. 29; v. 284; p. 941.
- Ablitzer, Alfred G., Brooklyn, N. Y. Cartoons. No. 142,226; May 10; v. 286; p. 403.
- Ablitzer, Alfred G., Brooklyn, N. Y. Cartoons. No. 142,910; May 24; v. 286; p. 843.
- Abraham, A. G., Company, Moline, Ill. Candy. No. 147,529; Oct. 25.
- Abraham Chocolate Co., Wapakoneta, Ohio. Candy covered with edible nuts. No. 143,528; June 7; v. 287; p. 181.
- Abramovitz, N., & Co. Inc., New York, N. Y. Canned fish. No. 147,894; Nov. 8.
- Abrams, Albert M., Boise, Idaho. Anesthetic for use in dentistry. No. 146,060; Aug. 30; v. 289; p. 1013.
- Abrams, Francis R., Inwood, N. Y. Mouth-wash. No. 141,066; Apr. 12; v. 285; p. 379.
- Abrams, Saul D., Boston, Mass. Tea, coffee, cocoa, spices. No. 144,677; July 19; v. 288; p. 615.
- Abrams, William, New York, N. Y. Outer and dress-shirts. No. 147,834; Nov. 1.
- Accotite Mfg. Co., Newark, N. J. Buttons of all kinds except those made from precious metal. No. 138,768; Jan. 11; v. 282; p. 375.
- Acetylene Service Company, The, Denver, Colo. Lighting and heating product of the acetylene variety. No. 141,823; May 3; v. 286; p. 181.
- Acheson Graphite Company, Niagara Falls, N. Y. Electrodes, anodes, and carbon-brushes. No. 144,982; July 19; v. 288; p. 625.
- Acheson Graphite Company, Niagara Falls, N. Y. Graphite and amorphous carbon. No. 147,835; Nov. 1.
- Achilles Rubber and Tire Company, Inc., The, Binghamton, N. Y. Tire casings and tubes of rubber. No. 141,824; May 3; v. 286; p. 181.
- Achilles Rubber and Tire Co. Inc., The, Binghamton, N. Y. Rubber tire-casings and tubes. No. 148,965; Dec. 6.
- Acieral Company of America, The, New York, N. Y. Ingots, castings, rods, and sheets of aluminum and aluminum alloys. No. 143,879; June 21; v. 287; p. 577.
- Acme Abrasive Company, Chicago, Ill. Grinding and polishing stones. No. 147,530; Oct. 25.
- Acme Beverage Extract Co., Chicago, Ill. Non-alcoholic, non-cereal, maltless beverages and syrups for making the same. No. 148,966; Dec. 6.
- Acme Beverage Extract Co., Chicago, Ill. Non-alcoholic, non-cereal, maltless beverages and syrups for making same. No. 149,810; Dec. 27.
- Acme Brick Company, Fort Worth, Tex. Bricks and drainage-tiles. No. 149,811; Dec. 27.
- Acme Cabinet Company, Kansas City, Mo. Phonographs. No. 146,416; Sept. 6; v. 290; p. 205.
- Acme Die Casting Corporation, Brooklyn and New York, N. Y. Non-ferrous castings, such as die-castings. No. 149,333; Dec. 13.
- Acme Merchandise Corporation, New York, N. Y. Umbrellas. No. 142,402; May 17; v. 286; p. 623.
- Acme Packing Co., Chicago, Ill. Canned fruits. No. 139,234; Feb. 1; v. 283; p. 169.
- Acme Packing Co., Chicago, Ill. Canned peaches, pears, apricots, &c. No. 139,748; Feb. 22; v. 283; p. 751.
- Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. No. 142,401; May 17; v. 286; p. 623.
- Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. No. 148,967; Dec. 6.
- Acme Supply Co., Los Angeles, Calif. Malted barley-syrup. No. 146,663; Sept. 20; v. 290; p. 631.
- Acron Polish Company, St. Paul, Minn. Polish and preservative for automobiles, furniture, and varnished surfaces. No. 142,403; May 17; v. 286; p. 623.
- Adam, Leonard, Chicago, Ill. Indelible writing-ink in powdered form. No. 144,983; July 19; v. 288; p. 625.
- Adams-Bach Hdkf. Mfg. Co., Inc., New York, N. Y. Handkerchiefs. No. 146,154; Sept. 6; v. 290; p. 197.
- Adams, Emory C., Columbus, Ga. Medicinal preparation for the treatment of diseases due to the improper functioning of the liver. No. 146,664; Sept. 20; v. 290; p. 631.
- Adams, Frank T., Connellsville, Pa. Rust-preventing and polishing preparation for automobile-bodies. No. 148,968; Dec. 8.
- Adams, George C., Garden City and Farmingdale, N. Y. Vehicles—namely, automobile camp-cars and trailers. No. 146,061; Aug. 30; v. 289; p. 1013.
- Adams, Geo. H., Co., Waltham, Mass., and Hill, N. H. Latch-needles for knitting-machines. No. 147,895; Nov. 8.
- Adams, Geo. H., Co., Waltham, Mass., and Hill, N. H. Latch-needles for knitting-machines. No. 148,969; Dec. 6.
- Adams, Glenn, Cincinnati, Ohio. Antiseptic powders. No. 142,911; May 24; v. 286; p. 843.
- Adams, Harry E., Haverhill, Mass. Leather shoes. No. 147,253; Oct. 11.
- Adams & Jewell, Rome, N. Y. Refractory cement and high-temperature cements. No. 146,417; Sept. 6; v. 290; p. 205.
- Adams & Kay, New York, N. Y. Men's and women's underwear of knitted fabrics. No. 142,404; May 17; v. 286; p. 623.
- Adams-Milroy, Incorporated, New York, N. Y. Woolen and cotton piece goods. No. 140,543; Mar. 22; v. 284; p. 743.
- Adams & Mitchell, Oakland, Calif. Preserves comprising rose-petals, sugar, and lemon. No. 141,825; May 3; v. 286; p. 181.
- Adams & Westlake Company, The, Chicago, Ill. Trimmings for railway-cars. No. 141,466; Apr. 26; v. 285; p. 777.
- Adams & Westlake Company, The, Chicago, Ill. Baggage-racks. No. 142,405; May 17; v. 286; p. 623.
- Adams & Westlake Company, The, Chicago, Ill. Hardware and bath-room accessories. No. 144,333; July 5; v. 288; p. 191.
- Adapti Company, Cleveland, Ohio. Certain named electrical appliances. No. 141,826; May 3; v. 286; p. 181.
- Adco Manufacturing Co., The, Columbus, Ohio. Internal-combustion engines. No. 143,880; June 21; v. 287; p. 577.
- Adco Manufacturing Co., The, Columbus, Ohio. Hay-presses. No. 143,881; June 21; v. 287; p. 577.
- Addressograph Company, Chicago, Ill. Machines for printing addresses and other matter. No. 147,447; Oct. 18.
- Adelman, Sam, & Co., Chicago, Ill. Men's clothing. No. 148,970; Dec. 6.
- Ades, David, Lexington, Ky. Articles of clothing. No. 146,665; Sept. 20; v. 290; p. 631.
- Ades Product Corporation. (See Leister, Max H., assignor.)
- Adfilm Company, The, Kansas City, Mo. Moving-picture films. No. 140,310; Mar. 15; v. 284; p. 579.
- Adhesive gum and cement and glue. E. E. Galle. No. 142,541; May 17; v. 286; p. 627.
- Adler, H., & Bro., New York, N. Y. Ribbons in lengths. No. 145,304; Aug. 2; v. 289; p. 177.
- Adlerika Company, The, St. Paul, Minn. Cathartic preparation. No. 139,749; Feb. 22; v. 283; p. 751.
- Ad-O-Gram Film Corporation, St. Louis, Mo. Motion-picture films. No. 140,066; Mar. 8; v. 284; p. 363.
- Adreon, Robert E., St. Louis, Mo. Automobile-lock. No. 142,406; May 17; v. 286; p. 623.
- Advance Automobile Accessories Corp., Chicago, Ill. Fabric linings for transmissions and brakes. Nos. 138,929-30; Jan. 18; v. 282; p. 553.
- Advanced Products Corporation, Philadelphia, Pa. Oil-cups. No. 142,227; May 10; v. 286; p. 403.
- Aerial Hat Company, New York, N. Y. Women's and misses' hats. No. 141,067; Apr. 12; v. 285; p. 379.
- Aero Pulverizer Company, The, Portland, Me., and New York, N. Y. Pulverizing machinery of the beater type and parts thereof. No. 141,467; Apr. 26; v. 285; p. 777.
- Aerograph Company, Limited, The, London, England. Air-brushes, spray painting apparatus operated by compressed air, and air-pumps therefor. No. 139,235; Feb. 1; v. 283; p. 167.
- Aeromarine Plane & Motor Company, New York, N. Y. Airplanes and flying boats. No. 139,733; Feb. 15; v. 283; p. 543.
- Agasote Millboard Co., The, Trenton, N. J. Fiber-boards sold in sheets. No. 143,272; May 31; v. 286; p. 1047.
- Agasote Millboard Co., The, Trenton, N. J. Fiber board sold in sheets. No. 147,531; Oct. 25.
- Ahern Co., San Francisco, Calif. Chocolate candy. No. 148,971; Dec. 6.
- Ahlens, Carl, New York, N. Y. Eggs. No. 145,926; Aug. 23; v. 289; p. 787.
- Ainbinder, Max, Chicago, Ill. Women's, children's, and infants' outer wearing-apparel. No. 143,529; June 7; v. 287; p. 181.
- Ainsa, F. S. Company, Inc., The, El Paso, Tex. Coffee. No. 145,305; Aug. 2; v. 289; p. 177.
- Ainsa, M., & Sons, Inc., El Paso, Tex. Wheat-flour. No. 146,155; Sept. 6; v. 290; p. 197.
- Ainsley, J. C., Packing Co., Campbell, Calif. Canned fruits. No. 141,468; Apr. 26; v. 285; p. 777.
- Ainsley, J. C., Packing Co., Campbell, Calif. Canned fruit—namely, fruit processed with syrup and gelatin to form a gelatinous molded mass. No. 146,666; Sept. 20; v. 290; p. 631.
- Air Reduction Company, Incorporated, New York, N. Y. Oxyacetylene welding and cutting apparatus. No. 141,469; Apr. 26; v. 285; p. 777.
- Air Reduction Company Inc., New York, N. Y. Oxygen, acetylene, and nitrogen. No. 146,156; Sept. 6; v. 290; p. 197.
- Air-Tight Steel Tank Company, Pittsburgh, Pa. Certain tanks. No. 146,667; Sept. 20; v. 290; p. 631.
- Ajax Electrothermic Corporation, Trenton, N. J. High-frequency electric furnaces and parts thereof and certain associated devices. No. 146,157; Sept. 6; v. 290; p. 197.



## Alphabetical list of registrants of trade-marks—Continued.

- Ajax Metal Company, The, Philadelphia, Pa. Ingots of red and yellow brass. No. 143,232; May 24; v. 286; p. 853.
- Åkaba, Inosuke, Stockton, Calif. Rice. No. 138,556; Jan. 4; v. 282; p. 185.
- Akron Trust Company, The, Akron, Ohio. Trusses, including pads. No. 148,565; Nov. 15.
- Aktiebolaget Förenade Svenska Tändsticksfabriker, Stockholm, Sweden, assignor to Jonkopings & Vulcans Tändsticksfabriks Aktiebolag, Jonkoping, Sweden. Matches. No. 142,407; May 17; v. 286; p. 623.
- Aktiebolaget Spritmotorer, Uppsala, Sweden. Internal-combustion engines, carbureters, and parts thereof. No. 139,213; Jan. 25; v. 282; p. 736.
- Aktiebolaget Tidan, Mariestad and Leksberg, Sweden. Vulcanized-fiber toothed wheels and pickers for looms. No. 145,233; July 26; v. 288; p. 817.
- Aktiengesellschaft Johannes-Jeserich, Charlottenburg, Germany. Asphalt, roof-felting, &c. No. 141,827; May 3; v. 286; p. 181.
- Alabama Annual White Sweet Clover Seed Growers Association, Inc., Newbern, Ala. Clover-seed. No. 146,553; Sept. 13; v. 290; p. 421.
- Aladdin Industries Incorporated. (See Mantle Lamp Company of America, assignor.)
- Alamoro Marble Company, The, Alamogordo, N. Mex., and Chicago, Ill. Marble blocks prepared for building purposes. No. 142,913; May 24; v. 268; p. 843.
- Alamoro Marble Company, The, Alamogordo, N. Mex., and Chicago, Ill. Marble not prepared for building purposes. No. 149,334; Dec. 13.
- Alaska Chemical Company, Jersey City, N. J. Certain skins. No. 147,532; Oct. 25.
- Alaska Refrigerator Company, The, Muskegon, Mich. Refrigerators. No. 142,408; May 17; v. 286; p. 623.
- Alaska Salmon & Herring Packers, The, Seattle, Wash. Canned salmon and herring. No. 145,590; Aug. 16; v. 289; p. 591.
- Albano & Gangemi, Brooklyn, N. Y. Tonic. No. 138,931; Jan. 18; v. 282; p. 553.
- Albany Belting and Supply Company, Albany, N. Y. Motor-oil. No. 140,544; Mar. 22; v. 284; p. 743.
- Albany Hardware Specialty Mfg. Co., Albany, Wis. Latches. No. 146,024; Aug. 23; v. 289; p. 791.
- Albany Perforated Wrapping Paper Co., Albany, N. Y. Toilet-paper. No. 142,409; May 17; v. 286; p. 623.
- Alberger Pump and Condenser Company, New York and Newburgh, N. Y. Air compressors and ejectors. No. 145,240; July 26; v. 288; p. 819.
- Albermarle Paper Mfg. Co., The, Richmond, Va. Writing, printing, blotting, tissue, and wrapping papers. No. 148,343; Nov. 15.
- Albers Olive Company, Riverside, Calif. Relish consisting of minced olives mixed with tomato sauce, spice, and condiments. No. 139,965; Mar. 1; v. 284; p. 173.
- Albert, Joseph, Brooklyn, N. Y. Washable textile-fabric linings cut, sewn, and ready. No. 141,068; Apr. 12; v. 285; p. 379.
- Alcohol Products Company, Newark, N. J. Diacetone alcohol. No. 141,828; May 3; v. 286; p. 181.
- Alcohol Products Company, Newark, N. J. Solutions. No. 146,062; Aug. 30; v. 289; p. 1013.
- Aldan Publishing Company, Inc., New York, N. Y. Magazines and trade publications published weekly. No. 145,306; Aug. 2; v. 289; p. 177.
- Alden Remedy Co., New York, N. Y. Salve. No. 139,109; Jan. 25; v. 282; p. 733.
- Alexander Boguslavsky, Ltd., London, England. Cigarettes. No. 144,174; June 28; v. 287; p. 773.
- Alexander Cabinet Company, Hanover, Pa. Talking-machines. No. 146,418; Sept. 6; v. 290; p. 205.
- Alexander, Charles O., Philadelphia, Pa. Beltings, packings, hose, and belt-lacings. No. 140,311; Mar. 15; v. 284; p. 549.
- Alexander, Charles O., Philadelphia, Pa. Tungsten, nitrogen, and carbon lamps. No. 141,069; Apr. 12; v. 285; p. 379.
- Alexander Gallerani Company, Pittsburgh, Pa. Macaroni. No. 145,364; Aug. 2; v. 289; p. 179.
- Alexander and Lavenson Electrical Supply Co., San Francisco, Calif. Electric cord connections for heating appliances. No. 144,334; July 5; v. 288; p. 191.
- Alexander Lumber Company, The, Aurora, Ill. Buildings. No. 140,067; Mar. 8; v. 284; p. 363.
- Alexandre Works Inc., The, Garden City, N. Y. Fur-skins. No. 149,813; Dec. 27.
- Alexis Witte Cutlery Co., New York and Brooklyn, N. Y. Razors, scissors, and hair-clippers. No. 144,089; June 21; v. 287; p. 583.
- Algemeene Norit Maatschappij, Amsterdam, Netherlands. Decolorizing means, and more especially pulverized decolorizing carbons. No. 140,896; Mar. 29; v. 284; p. 946.
- Alinall Mfg. Co., Worcester, Mass. Interior-wall glazing and coloring. No. 149,814; Dec. 27.
- Alinall Mfg. Co., Worcester, Mass. Interior warm-water or oil wall-finish. No. 149,815; Dec. 27.
- Alko Products Company, The, Oklahoma, Okla. Antiseptic mouth-wash. No. 142,914; May 24; v. 286; p. 843.
- Alcock, S., & Co. Limited, Redditch, England. Artificial bait. No. 147,896; Nov. 8.
- Alcock, S., & Co. Limited, Redditch, England. Linen and hemp fishing-lines. No. 148,972; Dec. 6.
- Allen Company, New Bedford, Mass. Textile-mill supplies. No. 141,723; Apr. 26; v. 285; p. 785.
- Allen Corporation, The, New York, N. Y. Hand fire-extinguishers. No. 142,851; May 17; v. 286; p. 637.
- Allen Cutlery Company, Newburgh, N. Y. Penknives, butcher table, and kitchen knives. No. 141,831; May 3; v. 286; p. 181.
- Allen Filter Company, The, Toledo, Ohio. Diatomaceous filters. No. 145,881; Aug. 16; v. 289; p. 601.
- Allen, J. H., & Co., St. Paul, Minn. Canned tomatoes. No. 139,476; Feb. 8; v. 283; p. 349.
- Allen, J., Smith & Co., Knoxville, Tenn. Self-rising flour. No. 141,228; Apr. 12; v. 285; p. 384.
- Allen, J., Smith & Co., Knoxville, Tenn. Self-rising wheat-flour. No. 146,002; Aug. 23; v. 289; p. 789.
- Allen, James G., Oakland, Calif. Powdered and flaked graphite. No. 145,494; Aug. 2; v. 289; p. 183.
- Allen, Mark W., & Co., Detroit, Mich. Perfume, toilet water, face and talcum powders, &c. No. 145,591; Aug. 16; v. 289; p. 591.
- Allen, McNeerney and Company, Attleboro, Mass. Combs. No. 144,093; June 21; v. 287; p. 585.
- Allen, S. L., & Co. Inc., Philadelphia, Pa. Tractors and motor drawn and driven tilling implements and parts thereof. No. 141,830; May 3; v. 286; p. 181.
- Allen, Simeon C., Rochester, N. Y. Tools for handling casks, &c. No. 145,024; July 26; v. 288; p. 811.
- Allen, W. D., Manufacturing Company, Chicago, Ill. Stitched canvas belting. No. 141,070; Apr. 12; v. 285; p. 379.
- Allen's, Mrs., Kitchens, New York, N. Y. Pies. No. 149,422; Dec. 13.
- Alley, E. E., New York, N. Y. Textile towels. No. 148,973; Dec. 6.
- Allied Labor Press Association, Boston, Mass. Books, magazines, circulars. No. 141,071; Apr. 12; v. 285; p. 379.
- Allied Packers, Incorporated, Chicago, Ill. Foods. No. 138,562; Jan. 4; v. 282; p. 185.
- Alligator Liniment Company, The, Charleston, S. C. Medicinal preparations. No. 145,241; July 26; v. 288; p. 819.
- Alligator Grip Company, Dallas, Tex. Tire-patches. No. 139,236; Feb. 1; v. 283; p. 167.
- Aling and Cory Co., The, Rochester, N. Y. Toilet-paper and tissue-paper used for wrapping purposes. No. 138,889; Jan. 11; v. 282; p. 379.
- Aling and Cory Company, The, Pittsburgh, Pa. Ledger-papers. No. 148,974; Dec. 6.
- Allis-Chalmers Company, Milwaukee, Wis. Communiting machinery. No. 149,629; Dec. 20.
- Allmann, Fred R., Brooklyn, N. Y. Woolen piece goods. No. 145,496; Aug. 2; v. 289; p. 183.
- Alloy Metal Stamping & Specialty Company, Philadelphia, Pa. Ground-clamp for electric conductors. No. 145,307; Aug. 2; v. 289; p. 177.
- Alloys Motor Parts Mfg. Co., Tacoma, Wash. Engine parts and accessories consisting of pistons for gas-engines and carbureters. No. 143,882; June 21; v. 287; p. 577.
- Alsteelequip Company, Aurora, Ill. Shelving, locker-cabinets, &c. No. 143,780; June 7; v. 287; p. 189.
- Allured, Earl R., Chicago, Ill. Monthly publication. No. 145,212; July 26; v. 288; p. 817.
- Allured, Earl R., Chicago, Ill. Monthly magazines. No. 148,975; Dec. 6.
- Allured, Earl R., Chicago, Ill. Magazines published monthly. No. 148,976; Dec. 6.
- Almquist, Amandus W., Orange, N. J. Liquid for intensifying and increasing the efficiency of petroleum fuels. No. 146,940; Sept. 27; v. 290; p. 803.
- Alperin, Strauss & Co., New York, N. Y. Dress, negligée, and work shirts, pajamas, collars, &c. No. 140,727; Mar. 29; v. 284; p. 941.
- Alperin, Strauss & Co., New York, N. Y. Dress, negligée, and work shirts, pajamas, collars, &c. No. 141,072; Apr. 12; v. 285; p. 379.
- Alpha Laboratories, Inc., New York, N. Y. Incandescent lamps. No. 144,678; July 19; v. 288; p. 615.
- Alpha-Lux Company, Inc., New York, N. Y. Artificial alkalinized hydrated ferric oxid. No. 143,273; May 31; v. 286; p. 1047.
- Alpha-Lux Company, Inc., New York, N. Y. Artificial-pumice bricks. No. 144,679; July 19; v. 288; p. 615.
- Alpine Chocolate Company, Boston, Mass. Candy. No. 147,897; Nov. 8.
- Alsace Lorraine Development & Trading Company, Limited, London, England. Rhine wine. No. 148,777; Nov. 29.
- Alseth, Stengrim, Osakis, Minn. Carousel. No. 142,485; May 17; v. 286; p. 625.
- Alston, Anna R., New York, N. Y. Elastic corsets, brassières, and leg-garments. Nos. 149,300-1; Dec. 6.
- Alt, Harry, New York, N. Y. Serge and woollens in the piece. No. 139,750; Feb. 22; v. 283; p. 751.
- Alt, Harry, New York, N. Y. Serges in the piece. No. 141,306; Apr. 19; v. 285; p. 565.
- Alter, Frank W., Chicago, Ill. Timepieces. No. 141,307; Apr. 19; v. 285; p. 565.
- Alter, Frank W., Chicago, Ill. Timepieces. No. 147,533; Oct. 25.
- Altieri, Joseph, Brooklyn, N. Y. Cod-liver oil. No. 140,312; Mar. 15; v. 284; p. 579.



- Altman, B., & Co., New York, N. Y. Toilet preparations. No. 138,932; Jan. 18; v. 282; p. 553.
- Altman, B., & Co., New York, N. Y. Toilet water, toilet powder, almond-meal, &c. No. 141,832; May 3; v. 286; p. 181.
- Altman, B., & Co., New York, N. Y. Silk piece goods. No. 146,063; Aug. 30; v. 289; p. 1013.
- Alton Mercantile Company, The, Enid, Okla. Chemical and medicinal preparations. No. 141,025; Mar. 29; v. 284; p. 951.
- Alton Mercantile Company, The, Enid, Okla. Foods and ingredients of foods. No. 144,505; July 5; v. 288; p. 197.
- Altoona Overall Factory, Altoona, Pa. Overalls and trousers. No. 141,470; Apr. 26; v. 285; p. 777.
- Aluminium-Walzwerke A.-G., Schaffhausen, Switzerland. Foil, plates, sheets, strips, and wire made of aluminum. No. 140,728; Mar. 29; v. 284; p. 941.
- Aluminium-Walzwerke A.-G., Schaffhausen, Switzerland. Lamp-shades made of aluminum. No. 141,833; May 3; v. 286; p. 181.
- Aluminium-Walzwerke A.-G., Schaffhausen, Switzerland. Lamp-sockets made of aluminium for electrical fixtures. No. 147,898; Nov. 8.
- Aluminium-Walzwerke A.-G., Schaffhausen, Switzerland. Rope made of aluminium. No. 149,335; Dec. 13.
- Alvey-Ferguson Company, The, Cincinnati, Ohio. Certain conveyers and conveying machinery and parts thereof. No. 149,336; Dec. 13.
- Alvo Manufacturing Co., The, Ashland, Ohio. Electric headlights and parts thereof. No. 141,308; Apr. 19; v. 285; p. 565.
- Amalgamated Leather Companies, Inc., Wilmington, Del., and New York, N. Y. Leather. No. 138,769; Jan. 11; v. 282; p. 375.
- Amalgamated Leather Companies, Inc., Wilmington, Del.; Philadelphia, Pa.; New York and Rochester, N. Y.; Boston, Mass.; Chicago, Ill., and St. Louis, Mo. Leather. No. 145,592; Aug. 16; v. 289; p. 591.
- Amalgamated Tire Stores Corporation, New York, N. Y. Rubber tires and tubes. No. 148,344; Nov. 15.
- Amboy Products Co., Chicago, Ill. Laundry and toilet soap, soap chips, &c. No. 143,274; May 31; v. 286; p. 1047.
- Amboy Products Co., Inc., Chicago, Ill. Jar-rings. No. 144,157; June 28; v. 287; p. 773.
- Amboy Products Co., Chicago, Ill. Chewing-gum. No. 146,668; Sept. 20; v. 290; p. 631.
- Amboy Products Co., Inc., Chicago, Ill. Machine-oil. No. 147,068; Oct. 4.
- Ambrosia Chocolate Cream Co., Chicago, Ill. Candy. Nos. 141,471-2; Apr. 26; v. 285; p. 777.
- Ambrosia Chocolate Cream Co., Chicago, Ill. Candy. No. 141,724; Apr. 26; v. 285; p. 785.
- Amendt Milling Co., Monroe, Mich. Self-riasing flour made from wheat. No. 140,729; Mar. 29; v. 284; p. 941.
- Amendt Milling Company, Monroe, Mich. Wheat-flour. No. 142,915; May 24; v. 288; p. 843.
- American Accessories Company. (See Beadle, Lynne C., assignor.)
- American Agricultural Chemical Company, The, New York, N. Y. Lime phosphate. No. 147,467; Oct. 18.
- American Agricultural Chemical Company, New York, N. Y. Fertilizers. No. 149,751; Dec. 20.
- American Agricultural Chemical Company, The, New York, N. Y. Fertilizers. No. 149,816; Dec. 27.
- American Agricultural Company, New York, N. Y. Fertilizers. No. 146,419; Sept. 6; v. 290; p. 205.
- American Art Needle Company, Dallas, Tex. Needles for hand-embroidery and similar work. No. 143,275; May 31; v. 286; p. 1047.
- American Art Student Publishing Co., New York, N. Y. Monthly art-magazine. No. 144,680; July 19; v. 288; p. 615.
- American Asphalt Roof Corporation, Kansas City, Mo. Ready-mixed paints. No. 147,069; Oct. 4.
- American Association of Nurserymen, Princeton, N. J. Quarterly magazine and a weekly paper. No. 141,073; Apr. 12; v. 285; p. 379.
- American Auto Top Company, The, Delphi, Ind. Automobile-tops. No. 146,627; Sept. 13; v. 290; p. 425.
- American Autoblood Company, Seattle, Wash. Composition used to keep water in automobile-radiators from freezing. No. 143,883; June 21; v. 287; p. 577.
- American Automobile Accessories Company, The. Tire reinforcements. No. 140,024; Mar. 1; v. 284; p. 175.
- American Automobile Accessories Company, The, Cincinnati, Ohio. Chemical preparation to increase the efficiency and power of gasoline. No. 147,070; Oct. 4.
- American Automobile Accessories Company, The, Cincinnati, Ohio. Portable repair kits. No. 148,778; Nov. 29.
- American Baby Shoe Co., Haverhill, Mass. Infants' shoes made in whole or in part of leather. No. 142,228; May 10; v. 286; p. 403.
- American Bakers Machinery Company, St. Louis, Mo. Machines and equipments for use by bakers, &c. No. 143,884; June 21; v. 287; p. 577.
- American Bearing & Die Casting Corporation, Indianapolis, Ind. Babbitt-lined bearings. No. 149,337; Dec. 13.
- American Beverages Co., Canandaigua, N. Y. Non-alcoholic beverage of malt and hops. No. 141,473; Apr. 26; v. 285; p. 777.
- American Biscuit Company, San Francisco, Calif. Sugar wafers and cakes. No. 147,899; Nov. 8.
- American Biscuit Company, assignor to American Marsh-mallow and Candy Company, Chicago, Ill. Marsh-mallow product used as an ingredient in confectionery, &c. No. 140,251; Mar. 8; v. 284; p. 369.
- American Bleached Goods Company, New York, N. Y.; Chicago, Ill., and St. Louis, Mo. Cotton piece goods. No. 147,900; Nov. 8.
- American Blind Stitch Machine Co., New York, N. Y. Certain sewing-machines. No. 147,193; Oct. 4.
- American Boron Products Company, Inc., Reading, Pa. Ferrous and non-ferrous alloys. Nos. 142,852-3; May 17; v. 286; p. 637.
- American-Brake Lining Company, Lansdale, Pa. Asbestos wire-woven brake lining, clutch-facings, &c. No. 144,336; July 5; v. 288; p. 191.
- American Bureau of Engineering, Inc., Chicago, Ill. Burning-lead molds. No. 144,335; July 5; v. 288; p. 191.
- American Bureau of Engineering Inc., Chicago, Ill. Battery turntables, plate presses, steamers, &c. No. 145,025; July 26; v. 288; p. 811.
- American Butter Co., Kansas City, Mo. Butter. No. 138,933; Jan. 18; v. 282; p. 553.
- American Cellulose & Chemical Manufacturing Company Limited, The, New York, N. Y. Certain cloths and fabrics in the piece of silk, artificial silk, and combinations. No. 146,669; Sept. 20; v. 290; p. 631.
- American Cellulose & Chemical Manufacturing Company, Limited, The, New York, N. Y. Wire cloth and netting. No. 147,746; Nov. 1.
- American Cellulose & Chemical Manufacturing Company, Limited, The, New York, N. Y. Wire cloth and netting. No. 147,901; Nov. 8.
- American Cellulose & Chemical Manufacturing Company Limited, The, New York, N. Y., and Cumberland, Md. Certain cloths and fabrics in the piece. No. 149,817; Dec. 27.
- American Chemical Paint Company, Philadelphia, Pa. Metal-treating fluid for preparing work for soldering. No. 146,158; Sept. 6; v. 290; p. 197.
- American Chemical Paint Company, Philadelphia, Pa. Paint that is used to advantage on surfaces exposed to heat. No. 146,554; Sept. 13; v. 290; p. 421.
- American Chicle Company, New York, N. Y. Chewing-gums. No. 139,440; Feb. 1; v. 283; p. 174.
- American Chicle Company, New York, N. Y. Chewing-gum. No. 141,309; Apr. 19; v. 285; p. 565.
- American Chicle Company, New York, N. Y. Chewing-gum. No. 141,474; Apr. 26; v. 285; p. 777.
- American Chicle Company, New York, N. Y. Chewing-gum. No. 149,818; Dec. 27.
- American Continuous Retort Company, The, Denver, Colo. Ore and oil-shale roasting furnace. No. 148,977; Dec. 6.
- American Cotton Oil Company, The. (See Industrial Cotton Oil Properties, assignors.)
- American Cotton Oil Company, The, Union township, Hudson county, N. J., and New York, N. Y. Edible vegetable oil. No. 141,834; May 3; v. 286; p. 181.
- American Desatype Co., New York, N. Y. Photographic typewriters. No. 145,308; Aug. 2; v. 289; p. 177.
- American Diamalt Company, The, Cincinnati, Ohio. Malt beverages, extracts, and liquors. No. 140,068; Mar. 8; v. 284; p. 363.
- American Display Company, The, Dayton, Ohio. Certain transmissions. No. 146,159; Sept. 6; v. 290; p. 197.
- American Distilling Co., The, Pekin and Chicago, Ill. Ethyl alcohol. No. 141,835; May 3; v. 286; p. 181.
- American Drug and Chemical Co., Gettysburg, Pa. Toy chemical sets. No. 149,338; Dec. 13.
- American Dry Goods Company, of New York, New York, N. Y. Silk stockings. No. 145,593; Aug. 16; v. 289; p. 591.
- American Dry Goods Company, of New York, New York, N. Y. Hosiery. No. 145,594; Aug. 16; v. 289; p. 591.
- American Dry Goods Company of New York, New York, N. Y. Men's, ladies', and children's underwear. No. 146,670; Sept. 20; v. 290; p. 631.
- American Electrical Supply Co., Chicago, Ill. Laundry-washing machines. No. 139,110; Jan. 25; v. 282; p. 733.
- American Enamel Company, Providence, R. I. Enameled handles, knobs, pulls. No. 139,751; Feb. 22; v. 283; p. 751.
- American Enameled Products Co., Chicago, Ill. Certain articles of porcelain-enamel ware. No. 147,194; Oct. 4.
- American Encaustic Tiling Co. Ltd., Zanesville, Ohio, and New York, N. Y. Wall, floor, and ceiling tiles. No. 144,506; July 5; v. 288; p. 197.
- American Factors Limited, Honolulu, Hawaii. Sugar-cane knives. No. 141,074; Apr. 12; v. 285; p. 379.
- American Factors, Limited, Honolulu, Hawaii, and San Francisco, Calif. Foods. No. 142,410; May 17; v. 286; p. 623.
- American Factors, Limited, Honolulu, Hawaii, and San Francisco, Calif. Coffee, canned fish, fruits, and vegetables, and butter. No. 144,158; June 28; v. 287; p. 773.
- American Fashion Clothes, New York, N. Y. Men's clothing. No. 146,671; Sept. 20; v. 290; p. 631.
- American Federation of Labor, Washington, D. C. Magazine published monthly. No. 142,229; May 10; v. 286; p. 403.



*Alphabetical list of registrants of trade-marks—Continued.*

- American Florist Soil Co., The, Akron, Ohio. Plant food. No. 149,561; Dec. 13.
- American Fork and Hoe Company, The, Cleveland, Ohio. Hand-cultivators. No. 146,160; Sept. 6; v. 290; p. 197.
- American Fork & Hoe Company, The, Cleveland, Ohio. Certain farm, garden, and other hand tools. No. 146,672; Sept. 20; v. 290; p. 631.
- American Fork & Hoe Company, The, Cleveland, Ohio, and Fort Madison, Iowa. Certain hand garden implements. No. 149,752; Dec. 20.
- American Gas Appliance Company, Brooklyn, N. Y. Gas radiators and heaters. No. 139,237; Feb. 1; v. 283; p. 167.
- American Glue Company, Boston, Mass. Flint, garnet, and emery papers and cloths. No. 144,159; June 28; v. 287; p. 773.
- American Grinder Manufacturing Company, Milwaukee, Wis. Socket-wrenches. No. 139,111; Jan. 25; v. 282; p. 733.
- American Hammered Piston Ring Company, The, Baltimore, Md. Piston-rings. No. 144,543; July 12; v. 288; p. 423.
- American Hard Rubber Company, New York, N. Y. Corset bones and stays. No. 145,595; Aug. 16; v. 289; p. 591.
- American Home Economics Association, Baltimore, Md. Women's undershirts and petticoats. No. 143,885; June 21; v. 287; p. 577.
- American Home Economics Association, Baltimore, Md. Woven silk fabric in the bolt or piece. No. 143,886; June 21; v. 287; p. 577.
- American Hominy Company, Indianapolis, Ind., and Decatur, Ill. Wheat-flour. No. 142,916; May 24; v. 286; p. 843.
- American Hominy Company, Indianapolis, Ind., and Decatur, Ill. Corn-syrup. No. 146,161; Sept. 6; v. 290; p. 197.
- American Hominy Company, Indianapolis, Ind., and Decatur, Ill. Corn-syrup for food purposes. Nos. 146,673-4; Sept. 20; v. 290; p. 631.
- American Hosiery Company, New Britain, Conn. Heath coats. No. 144,301; June 28; v. 287; p. 779.
- American Hosiery Company, New Britain, Conn. Heath jackets. No. 144,302; June 28; v. 287; p. 779.
- American Importing Co., New York, N. Y. Ticking. No. 141,475; Apr. 26; v. 285; p. 777.
- American Incubator Manufacturing Co., New Brunswick, N. J. Incubators and brooders. No. 147,256; Oct. 11.
- American Indian Film Co., The, Denver, Colo. Motion-picture films. No. 146,162; Sept. 6; v. 290; p. 197.
- American Institute of Mining and Metallurgical Engineers Inc., New York, N. Y. Monthly magazine. No. 139,752; Feb. 22; v. 283; p. 751.
- American Issue Publishing Company, The, Westerville, Ohio. Periodical, the national edition of which is published weekly, biweekly, and monthly. No. 140,069; Mar. 8; v. 284; p. 363.
- American Javanese Products Co., Chicago, Ill. Tea. No. 142,917; May 24; v. 286; p. 843.
- American Kardex Company, Tonawanda, N. Y. Card-index, record, and filing systems, &c. Nos. 147,257-60; Oct. 11.
- American Laboratories Inc., Richmond, Va. Chemicals, medicines, and toilet preparations. No. 144,337; July 5; v. 288; p. 191.
- American Laboratories Incorporated, Richmond, Va. Antiseptic, disinfectant, deodorant, &c. No. 141,836; May 3; v. 286; p. 181.
- American Lady Corset Co., Detroit, Mich. Corsets and brassières. No. 145,533; Aug. 9; v. 289; p. 407.
- American Lady Corset Company, Detroit, Mich. Corsets and brassières. No. 145,596; Aug. 16; v. 289; p. 591.
- American Lady Corset Co., Detroit, Mich. Corsets and brassières. No. 147,902; Nov. 8.
- American Lady Corset Company, Detroit, Mich. Corsets and brassières. No. 148,345; Nov. 15.
- American Lead Pencil Company, New York, N. Y. Lead-pencils. No. 138,890; Jan. 11; v. 282; p. 379.
- American Lead Pencil Company, New York, N. Y. Chemical ink-eradicator. No. 140,070; Mar. 8; v. 284; p. 363.
- American Lead Pencil Company, New York, N. Y. Lead-pencils. No. 141,837; May 3; v. 286; p. 181.
- American Lead Pencil Company, New York, N. Y. Lead-pencils. No. 143,233; May 24; v. 286; p. 855.
- American Lead Pencil Company, New York, N. Y. Lead-pencils. No. 143,530; June 7; v. 287; p. 181.
- American Lead Pencil Company, New York, N. Y. Rubber bands. No. 149,339; Dec. 13.
- American Levant Syndicate Inc., New York, N. Y. Wheat-flour. No. 147,903; Nov. 8.
- American Line Materials Company, Chicago, Ill. Cross-arms for telephone-poles and the like. No. 147,468; Oct. 18.
- American Lumberman, The, Chicago, Ill. Weekly periodicals and publications. No. 147,904; Nov. 8.
- American Magnesia Products Co., Chicago, Ill. Composition for making floors, walls, and partitions. No. 144,338; July 5; v. 288; p. 191.
- American Manganese Bronze Company, Inc., Philadelphia, Pa., and New York, N. Y. Bulk-bronze and castings made from bronze. No. 144,160; June 28; v. 287; p. 773.
- American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, and twine. Nos. 139,919-20; Feb. 22; v. 283; p. 757.
- American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, twine. No. 140,252; Mar. 8; v. 284; p. 369.
- American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Bagging. Nos. 141,026-7; Mar. 29; v. 284; p. 951.
- American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, and twine manufactured from vegetable fiber. Nos. 142,411-16; May 17; v. 286; p. 623.
- American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Bagging manufactured from jute fiber. No. 143,234; May 24; v. 286; p. 855.
- American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Bagging manufactured from jute fiber. Nos. 143,887-8; June 21; v. 287; p. 577.
- American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, and twine manufactured from vegetable fiber. No. 144,507; July 5; v. 288; p. 197.
- American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Bagging manufactured from jute fiber. No. 145,242; July 26; v. 288; p. 819.
- American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, twine. No. 146,420; Sept. 6; v. 290; p. 205.
- American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, and twine manufactured from vegetable fiber. Nos. 146,941-3; Sept. 27; v. 290; p. 803.
- American Manufacturing Company, Evansville, Ind. Spark-plugs. No. 141,476; Apr. 26; v. 285; p. 777.
- American Milk Products Corporation, New York, N. Y. Sweetened condensed milk. No. 147,262; Oct. 11.
- American Milk Products Corporation, New York, N. Y. Unsweetened evaporated milk. No. 147,263; Oct. 11.
- American Milk Products Corporation, New York, N. Y. Sweetened condensed milk. No. 147,264; Oct. 11.
- American Milk Products Corporation, New York, N. Y. Unsweetened evaporated milk. No. 147,267; Oct. 11.
- American Milk Products Corporation, New York, N. Y. Unsweetened evaporated milk. No. 148,978; Dec. 6.
- American Molasses Company of New York, The, New York, N. Y. Molasses and syrups made from sugar-cane and corn. Nos. 142,417-20; May 17; v. 286; p. 623.
- American Motor Truck Company, The, Newark, Ohio. Self-propelled vehicles—namely, motor-trucks. No. 138,934; Jan. 18; v. 282; p. 553.
- American Motor Truck Company, The, Newark, Ohio. Self-propelled vehicles—namely, motor-trucks. No. 141,838; May 3; v. 286; p. 181.
- American Multigraph Sales Company, The, Cleveland, Ohio. Printing-machines and parts thereof. No. 146,163; Sept. 6; v. 290; p. 197.
- American Narrow Fabric Co., Providence, R. I. Lacings, galloons, and braids. No. 138,557; Jan. 4; v. 282; p. 185.
- American Net & Twine Co., East Cambridge, Mass. Twine and fiber cord. No. 144,681; July 19; v. 288; p. 615.
- American Novelty Co., Lebanon, Pa. Coasters. No. 141,839; May 3; v. 286; p. 181.
- American Nut and Seed Oil Corporation, New York, N. Y. Vegetable and edible oils. No. 145,309; Aug. 2; v. 289; p. 177.
- American Oil Company, The, Providence, R. I. Oil used in the treatment of woolen fabrics. No. 144,161; June 28; v. 287; p. 773.
- American Oil Burner Company, New York, N. Y. Oil-heaters. No. 148,979; Dec. 6.
- American Oil Company, Providence, R. I. Lubricating-oils, dynamo, screw-cutting, loom, and spindle oil. No. 149,631; Dec. 20.
- American Oil Corporation, Jackson, Mich. Lubricating oils and greases. No. 149,819; Dec. 27.
- American Optical Company, Southbridge, Mass. Spectacles, eyeglasses, eye-protectors, and other optical appliances. Nos. 138,891-2; Jan. 11; v. 282; p. 379.
- American Optical Company, Southbridge, Mass. Eyeglasses and spectacles and parts thereof. No. 141,840; May 3; v. 286; p. 181.
- American Optical Company, Southbridge, Mass. Optical and ophthalmic appliances. No. 142,421; May 17; v. 286; p. 623.
- American Optical Company, Southbridge, Mass. Spectacles, eyeglasses, and other optical supplies and appliances. No. 144,094; June 21; v. 287; p. 585.
- American Optical Company, Southbridge, Mass. Ophthalmic lenses, semifinished lenses, and blanks therefor. Nos. 144,162-5; June 28; v. 287; p. 773.
- American Pacific Company, Inc., San Francisco, Calif. Gasolene, lubricating-oils, &c. No. 148,779; Nov. 29.
- American Paint Works, New Orleans, La. Dry, paste, and ready-mixed paints, house-paints, interior and exterior finishes, &c. No. 143,842; June 14; v. 287; p. 399.
- American Paper Goods Co., The, Kensington, Conn. Round and flat paper drinking-cups. No. 149,820; Dec. 27.
- American Piano Company, Jersey City, N. J., and New York, N. Y. Pianos and player-pianos. No. 144,984; July 19; v. 288; p. 625.
- American Piano Company, Jersey City, N. J., and New York, N. Y. Musical instruments, particularly pianos, player-pianos, and parts thereof. Nos. 148,980-1; Dec. 6.



- American Pin Company, The, Waterbury, Conn. Pins for bank and general office use. No. 144,508; July 5; v. 288; p. 197.
- American Pin Company, The, Waterbury, Conn. Pins, safety-pins, and hooks and eyes. No. 147,747; Nov. 1.
- American Pitch Pine Export Company, Wilmington, Del., and New Orleans, La. Finished lumber. No. 138,558; Jan. 4; v. 282; p. 185.
- American Pitch Pine Export Company, Wilmington, Del., and New Orleans, La. Raw timber. No. 140,545; Mar. 22; v. 284; p. 743.
- American Pop Corn Company, Sioux City, Iowa. Chewing-gum-dispensing machines. No. 141,841; May 3; v. 286; 181.
- American Pop Corn Company, Sioux City and Schaller, Iowa. Popcorn. Nos. 144,682-3; July 19; v. 288; p. 615.
- American Purchasing Corporation, Ltd., Toronto, Ontario, Canada, and New York, N. Y. Certain table and bed linen, towels, carpets, tapestries. No. 149,632; Dec. 20.
- American Radiator Company, East Orange, N. J., and Chicago, Ill. Steam and hot-water radiators. No. 140,546; Mar. 22; v. 284; p. 743.
- American Radiator Company, East Orange, N. J., and Chicago, Ill. Gas-valves for boilers, radiators, and furnaces, and air-valves for radiators. No. 147,534; Oct. 25.
- American Radiator Company, East Orange, N. J., and Chicago, Ill. Steel castings. No. 147,535; Oct. 25.
- American Radiator Company, East Orange, N. J., and Chicago, Ill. Thermometers and steam-pressure and altitude gages. No. 147,905; Nov. 8.
- American Radio and Research Corporation, Medford, Mass. Quenched-spark gaps, radio receiving sets, &c. No. 141,310; Apr. 19; v. 285; p. 565.
- American Reinforced Paper Company, Attleboro, Mass. Reinforced paper for wrapping and packaging. No. 140,313; Mar. 15; v. 284; p. 579.
- American Refining Company, Boston, Mass. Soluble cutting-oil. No. 141,842; May 3; v. 286; p. 181.
- American Refining Company, Boston, Mass. Oils and greases. No. 142,230; May 10; v. 286; p. 403.
- American Rolling Mill Company, The, Middletown, Ohio. Products of pure iron, steel, and alloys of iron. No. 139,474; Feb. 8; v. 283; p. 349.
- American Rolling Mill Company, The, Middletown, Ohio. Certain products of iron, of steel, and of alloys of iron. No. 147,265; Oct. 11.
- American Rolling Mill Company, The, Middletown, Ohio. Certain products of pure iron. No. 148,346; Nov. 15.
- American Safety Razor Corporation, Brooklyn, N. Y. Soap. No. 149,633; Dec. 20.
- American Safeteesoap Corporation, (now by change of name Safetee Soap Corporation,) Brooklyn, N. Y. Shaving-brushes. No. 142,422; May 17; v. 286; p. 623.
- American Safetee Soap Corporation, (now by change of name Safetee Soap Corporation,) Brooklyn, N. Y. Toilet powder, shaving-lotion, tooth-powder, &c. No. 143,889; June 21; v. 287; p. 577.
- American Saw and Manufacturing Company, Springfield, Mass. Saws. No. 144,095; June 21; v. 287; p. 585.
- American Scientific Laboratory, Los Angeles, Calif. Tasteless Epsom salt. No. 139,966; Mar. 1; v. 284; p. 173.
- American Scientific Laboratory, The, Los Angeles, Calif. Liquid purgative. No. 148,753; Nov. 22.
- American Sheet and Tin Plate Company, Pittsburgh, Pa. Iron and steel sheets and plates and tin andterne plates. Nos. 142,854-5; May 17; v. 286; p. 637.
- American Sheet and Tin Plate Company, Pittsburgh, Pa. Iron and steel sheets and plates and tin andterne plates. No. 145,026; July 26; v. 288; p. 811.
- American Sheet and Tin Plate Company, Pittsburgh, Pa. Rolled iron and steel sheets and plates, and tin andterne plates. Nos. 147,469-73; Oct. 18.
- American Sheet & Tin Plate Company, Pittsburgh, Pa. Black sheets of rolled soft steel. No. 147,536; Oct. 25.
- American Show Case and Mfg. Co., Detroit, Mich. Soda-fountains. No. 145,027; July 26; v. 288; p. 811.
- American Social Hygiene Association, Inc., New York, N. Y. No. 145,534; Aug. 9; v. 289; p. 407.
- American Society of Agricultural Engineers, Ames, Iowa. Monthly publication. No. 143,890; June 21; v. 287; p. 577.
- American Stamping Company, Elizabeth, N. J. Certain toys stamped from sheet metal. No. 148,780; Nov. 29.
- American Standard Ship Fitting Corporation, New York, N. Y. Anchors and steel and cast-iron parts of machinery. No. 140,730; Mar. 29; v. 284; p. 941.
- American Standard Tourniquet Company, Portland, Me. Tourniquets, bandages, &c. No. 149,302; Dec. 6.
- American Stationery Mfg. Co., New York, N. Y. Lubricating oils and greases. No. 146,421; Sept. 6; v. 290; p. 206.
- American Steel Foundries, Jersey City, N. J., and Chicago, Ill. Wheels, chassis, chassis forgings, and castings. No. 143,235; May 24; v. 286; p. 855.
- American Steel Foundries, Chicago, Ill. Certain named metal pipe-fittings. No. 148,347; Nov. 15.
- American Steel Foundries, Chicago, Ill. Anchors and certain castings. No. 148,982; Dec. 6.
- American Steel & Wire Company of New Jersey, Cleveland, Ohio. Poultry-wire fence. No. 139,059; Jan. 18; v. 282; p. 567.
- American Steel and Wire Company of New Jersey, The, Hoboken, N. J. Plain and galvanized woven-wire concrete-reinforcement. No. 141,843; May 3; v. 286; p. 181.
- American Steel & Wire Company of New Jersey, The, Cleveland, Ohio. Woven-wire fencing. No. 144,096; June 21; v. 287; p. 585.
- American Steel and Wire Company of New Jersey, The, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y., and Worcester, Mass. Plain and galvanized woven-wire concrete-reinforcement. No. 144,985; July 19; v. 288; p. 625.
- American Steel Wool Mfg. Co. Inc., New York, N. Y. Steel-wool for cleaning and polishing purposes. No. 148,348; Nov. 15.
- American Stores Company, Philadelphia, Pa. Foods. No. 141,477; Apr. 26; v. 285; p. 777.
- American Stove Company, St. Louis, Mo. Coal and wood ranges, gas-ranges, oil-stoves. No. 139,734; Feb. 15; v. 283; p. 543.
- American Stove Company, St. Louis, Mo. Coal and wood ranges, gas-ranges, oil-stoves. No. 140,025; Mar. 1; v. 284; p. 175.
- American Sub-Carburetor Co., Portland, Ind. Vaporizing attachments for internal-combustion engines. No. 141,311; Apr. 19; v. 285; p. 565.
- American Sugar Refining Company, The, Jersey City, N. J., and New York, N. Y. Sugar. No. 140,731; Mar. 29; v. 284; p. 941.
- American Sugar Refining Company, The, Jersey City, N. J., and New York, N. Y. Sugar. No. 146,064; Aug. 30; v. 289; p. 1013.
- American Tap and Die Co., Greenfield, Mass. Cleavers. No. 145,028; July 26; v. 288; p. 811.
- American Tansul Company, San Francisco, Calif. Material for chill-proofing and stabilizing beverages. No. 147,748; Nov. 1.
- American Thread Company, The, Jersey City, N. J. Spool-cotton, sewing-cotton, thread, and cotton yarn. Nos. 146,628-30; Sept. 13; v. 290; p. 425.
- American Thread Company, The, Jersey City, N. J. Spool-cotton, sewing-cotton, thread and cotton yarn. Nos. 149,821-2; Dec. 27.
- American Tissue Mills, Holyoke, Mass. Plain and crape tissue-papers, paper napkins, and waxed papers. No. 143,531; June 7; v. 287; p. 181.
- American Tissue Mills, Holyoke, Mass. Plain and crape tissue papers, paper napkins, &c. No. 144,684; July 19; v. 288; p. 615.
- American Tobacco Company, The, New York, N. Y. Cigarettes. No. 142,423; May 17; v. 286; p. 623.
- American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco. Nos. 142,424-8; May 17; v. 286; pp. 623-4.
- American Tobacco Company, New York, N. Y. Smoking-tobacco, little cigars, and cigarettes. No. 144,166; June 28; v. 287; p. 773.
- American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco. No. 145,310; Aug. 2; v. 289; p. 177.
- American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 146,164; Sept. 6; v. 290; p. 197.
- American Tool & Machine Co., Boston, Mass. Machinery and parts thereof. No. 142,429; May 17; v. 286; p. 624.
- American Tool Works, Co., The, Cincinnati, Ohio. Lathes, planers, shapers, radial drills. No. 140,253; Mar. 8; v. 284; p. 369.
- American Trading Company, New York, N. Y. Cotton piece goods. No. 139,238; Feb. 1; v. 283; p. 167.
- American Trading Company, New York, N. Y. Yarns. No. 143,276; May 31; v. 286; p. 1047.
- American Trading Company, New York, N. Y. Cotton piece goods. No. 143,532; June 7; v. 287; p. 181.
- American Trading Company, New York, N. Y. Yarns. No. 145,597; Aug. 16; v. 289; p. 591.
- American Transoceanic Traders, Inc., New York, N. Y. Matches. No. 146,675; Sept. 20; v. 290; p. 631.
- American Tripoli Company, Seneca, Mo. Tripoli flour. Nos. 144,509-10; July 5; v. 288; p. 197.
- American Tripoli Company, Seneca, Mo. Tripoli flour, (ground tripoli stone.) Nos. 145,243-5; July 26; v. 288; p. 819.
- American Tripoli Company, Seneca, Mo. Tripoli flour (ground tripoli stone.) No. 145,495; Aug. 2; v. 289; p. 183.
- American Tripoli Company, Seneca, Mo. Tripoli flour, (ground tripoli stone.) No. 146,422; Sept. 6; v. 290; p. 206.
- American Tripoli Company, Seneca, Mo. Tripoli flour used as a polishing material. No. 146,923; Sept. 20; v. 290; p. 641.
- American Tripoli Company, Seneca, Mo. Tripoli filter-stones, pressure, siphon, and disk filters. Nos. 146,676-7; Sept. 20; v. 290; p. 631.
- American Tripoli Company, Seneca, Mo. Tripoli flour. No. 147,537; Oct. 25.
- American Tripoli Company, Seneca, Mo. Tripoli flour. No. 147,749; Nov. 1.
- American Turpentine Company, The, Cleveland, Ohio. Plastic cement, asphalt roll and asphalt shingle roofings. No. 146,025; Aug. 23; v. 289; p. 791.



*Alphabetical list of registrants of trade-marks—Continued.*

- American Turpentine Company, The, Cleveland, Ohio. Paints, enamels, varnishes, and stains. No. 148,567; Nov. 15.
- American Valve Co., Cossackie, N. Y. Valves. No. 146,165; Sept. 6; v. 290; p. 197.
- American Wholesale Corporation, Baltimore and Cumberland, Md. Jerseys, coat-sweaters, sweater-vests. No. 139,060; Jan. 18; v. 282; p. 557.
- American Wholesale Corporation, (Baltimore Bargain House), Baltimore and Cumberland, Md. Publications issued monthly. No. 140,254; Mar. 8; v. 284; p. 369.
- American Wholesale Corporation, Baltimore and Cumberland, Md. Publications issued monthly. No. 140,255; Mar. 8; v. 284; p. 369.
- American Wholesale Corporation (Baltimore Bargain House), Baltimore and Cumberland, Md. Clothing. No. 142,186; May 3; v. 286; p. 193.
- American Wholesale Corporation (Baltimore Bargain House), Baltimore and Cumberland, Md. Jewelry, hollow and flat ware, &c. No. 142,187; May 3; v. 286; p. 193.
- American Wholesale Corporation, (Baltimore Bargain House), Baltimore and Cumberland, Md. Laundry soap. No. 144,167; June 28; v. 287; p. 773.
- American Wholesale Corporation, Baltimore and Cumberland, Md. Automobile-tire tubes. No. 145,311; Aug. 2; v. 289; p. 177.
- American Wire Fabrics Company, Mount Wolf, Pa., and Chicago, Ill. Screen wire-cloth. No. 147,195; Oct. 4.
- American Wiremold Company, The, Hartford, Conn. Non-metallic conduit. No. 143,843; June 14; v. 287; p. 399.
- American Writing Paper Company, Holyoke, Mass. Paper-papers. No. 139,061; Jan. 18; v. 282; p. 557.
- American Writing Paper Company, Holyoke, Mass. Paper-papers. No. 139,921; Feb. 22; v. 283; p. 757.
- American Writing Paper Company, Holyoke, Mass. Cover for books. No. 139,922; Feb. 22; v. 283; p. 757.
- American Writing Paper Company, Holyoke, Mass. Paper-papers. No. 140,314; Mar. 15; v. 284; p. 579.
- American Writing Paper Company, Holyoke, Mass. Box-board. No. 140,732; Mar. 29; v. 284; p. 941.
- American Writing Paper Company, Holyoke, Mass. Ledger-paper. No. 146,423; Sept. 6; v. 290; p. 206.
- American Zinc, Lead and Smelting Company, Boston, Mass. Zinc oxid and mixtures containing zinc oxid. No. 146,678; Sept. 20; v. 290; p. 631.
- Amick, Mary H., Chicago, Ill. Trimmings and garnitures. No. 138,563; Jan. 4; v. 282; p. 185.
- Amnidown, Fred D., Boston, Mass. Hair-nets. No. 147,266; Oct. 11.
- Amole Soap Company, The, Tippecanoe City, Ohio. Soap. No. 144,364; June 28; v. 287; p. 779.
- Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece goods. Nos. 142,211-13; May 3; v. 286; p. 195.
- Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece goods. No. 142,556; May 17; v. 286; p. 637.
- Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece goods. Nos. 143,781-2; June 7; v. 287; p. 189.
- Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece goods. Nos. 145,029-30; July 26; v. 288; p. 811.
- Amoskeag Manufacturing Company, Manchester, N. H., and Boston, Mass. Cotton piece goods. No. 146,424; Sept. 6; v. 290; p. 206.
- Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece goods. No. 146,944; Sept. 27; v. 290; p. 803.
- Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece goods. No. 148,985; Dec. 6.
- Anaheim Citrus Fruit Association, Anaheim, Calif. Fresh citrus fruits. No. 138,560; Jan. 4; v. 282; p. 185.
- Anaheim Citrus Fruit Association, Anaheim, Calif. Fresh citrus fruits. No. 146,679; Sept. 20; v. 290; p. 631.
- Anchor Stone & Range Co., New Albany, Ind. Wood, gas, and oil stoves and ranges. No. 145,312; Aug. 2; v. 289; p. 177.
- Ancient and Mystical Order Rosae Crucis, San Francisco, Calif. Monthly magazine and certain named publications. No. 145,313; Aug. 2; v. 289; p. 165.
- Anders, D. Webster, assignor to H. Freed, Boston, Mass. Preparation for the treatment of skin diseases. No. 146,680; Sept. 20; v. 290; p. 631.
- Anderson, A. O. & Co., San Francisco, Calif. Canned fruits. Nos. 141,478-80; Apr. 26; v. 285; p. 777.
- Anderson, A. O. & Co., San Francisco, Calif. Canned fruits. No. 141,844; May 3; v. 286 p. 181.
- Anderson, Meyer & Company, Ltd., New York, N. Y. Turpentine and turpentine substitutes. No. 138,564; Jan. 4; v. 282; p. 185.
- Anderson, Meyer & Co., Limited, New York, N. Y., and Shanghai, China. Synthetic-indigo paste. No. 141,482; Apr. 26; v. 285; p. 777.
- Andersen, Peter J., Portland, Oreg. Candy. No. 139,441; Feb. 1; v. 283; p. 174.
- Anderson, Albert J., La Crosse, Wis. Trailer coupling attachments. No. 138,561; Jan. 4; v. 282; p. 185.
- Anderson & Barry, Philadelphia, Pa. Women's corsets and girdles. No. 142,430; May 17; v. 286; p. 624.
- Anderson, Brooke, assignor to Red Top Steel Post Company, Chicago, Ill. Wire fencing. No. 141,481; Apr. 26; v. 285; p. 777.
- Anderson Electric & Equipment Company, Chicago, Ill. Electric lamps suitable for vehicles, spot and search lights, &c. No. 144,685; July 19; v. 288; p. 615.
- Anderson, George W., Enid, Okla. Non-alcoholic, non-cereal, maltless beverages and syrups for making the same. No. 148,630; Nov. 22.
- Anderson, James, Cleveland, Ohio. Portable and stationary buildings and assembled units thereof. No. 144,986; July 19; v. 288; p. 625.
- Anderson, Meyer & Co., Limited, New York, N. Y., and Shanghai, China. Dyes. No. 143,841; June 14; v. 287; p. 399.
- Anderson Motor Company, Rock Hill, S. C. Motor-cars. No. 141,312; Apr. 19; v. 285; p. 565.
- Anderson, V. D., Company, The, Cleveland, Ohio. Presses for removing oils and liquids. No. 144,097; June 21; v. 287; p. 585.
- Andrews, Marcus P., Richmond, Va. Brooms for applying stucco. No. 148,781; Nov. 29.
- Andrew's Mill Company, Frankford, Pa. Woolen goods in the piece. No. 145,031; July 26; v. 288; p. 811.
- Androscooggin Mills, Lewiston, Me. Grain-bags. No. 142,431; May 17; v. 286; p. 624.
- Andrus-Scofield Co., The, Columbus, Ohio. Coffee, tea, spices, salted peanuts, peanut-butter. No. 145,598; Aug. 16; v. 289; p. 591.
- Andy, Jay W., Toledo, Ohio. Medicinal preparation. No. 144,511; July 5; v. 288; p. 197.
- Angeles Candy Co., San Francisco, Calif. Candies, marshmallows, and chocolates. No. 139,953; Feb. 22; v. 283; p. 751.
- Angora Specialty Co. Inc., New York and Brooklyn, N. Y. Woolen piece goods. No. 144,686; July 19; v. 288; p. 615.
- Angora Specialty Co. Inc., Brooklyn, N. Y. Coats and suits for men and women. No. 147,906; Nov. 8.
- Anguera, Rafael G., Brownsville, Tex. Hair-salve. No. 140,071; Mar. 8; v. 284; p. 363.
- Angulo, Francisco, Madrid, Spain. Soap. Nos. 144,168-9; June 28; v. 287; p. 773.
- Anheuser-Busch Incorporated, St. Louis, Mo. Non-intoxicating malt beverage. No. 139,754; Feb. 22; v. 283; p. 751.
- Anheuser-Busch, Incorporated, St. Louis, Mo. Malt-sugar syrup for food purposes. Nos. 143,533-4; June 7; v. 287; p. 181.
- Anheuser-Busch, Incorporated, St. Louis, Mo., and New Orleans, La. Ice-cream. No. 143,535; June 7; v. 287; p. 181.
- Anheuser-Busch, Incorporated, St. Louis, Mo. Carbonated tea beverage. No. 143,544; June 7; v. 287; p. 181.
- Animated Advertising Corporation, Kansas City, Mo. Mechanical advertising-signs. No. 138,559; Jan. 4; v. 282; p. 185.
- Annin & Co., New York, N. Y. Flags. No. 143,536; June 7; v. 287; p. 181.
- Ansonia Dress & Costume Mfg. Co., Inc., New York, N. Y. Misses' and ladies' dresses. No. 140,733; Mar. 29; v. 284; p. 941.
- Ansted & Burk Co., Springfield, Ohio. Wheat-flour and cornmeal. No. 147,071; Oct. 4.
- Anthony Company, The, Long Island City, N. Y. Burners, furnaces, forges, ovens, and torches. No. 146,631; Sept. 13; v. 290; p. 425.
- Anthony Company, The, Long Island City, N. Y. Pumps, paint and water spraying devices, blowers, air-compressors. No. 149,562; Dec. 13.
- Anthony Company, The, Long Island City, N. Y. Check and fire valves, liquid strainers. No. 149,563; Dec. 13.
- Anthony Company, The, Long Island City, N. Y. Oil meters and gages, air-gages. No. 149,564; Dec. 13.
- Anthony, Frank, *et al.*, administrators. (See Gasser, Florence P.)
- Anti-Friction Lubricant Co., St. Joseph, Mich. Lubricating oils and greases. No. 140,734; Mar. 29; v. 284; p. 941.
- Anti-Uric Company, San Francisco, Calif. Rheumatism medicine. No. 147,538; Oct. 25.
- Antrim, C. W., & Sons, Richmond, Va. Coffee and tea. No. 142,921; May 24; v. 286; p. 843.
- Appel Battery Service Company, St. Louis, Mo. Storage batteries and parts, electric switches, bulbs, &c. No. 144,539; July 5; v. 288; p. 191.
- Apple Hat Company, St. Louis, Mo. Periodical published semiannually. No. 144,687; July 19; v. 288; p. 615.
- Apple-Lax Company, The, Winchester, Va. Pure apple-syrup laxative. No. 138,935; Jan. 18; v. 282; p. 553.
- Aquazone Laboratories, Inc., Los Angeles, Calif. Medicinal water. No. 146,632; Sept. 13; v. 290; p. 425.
- Araho Co., The. (See Leyendecker, Robert E., assignor.)
- Araho Co., Inc., The, New York, N. Y. Toilet-preparations, face-powder, rouge, grease paint, and lip-sticks. No. 147,907; Nov. 8.
- Arata, Rudolph J., Los Angeles, Calif. Hair-restorer. No. 145,927; Aug. 23; v. 289; p. 787.
- Arbuthnot-Stephenson Co., Pittsburgh, Pa. Suspenders. No. 138,565; Jan. 4; v. 282; p. 185.



- Arch Crown Mfg. Co., Newark, N. J. Jewelry-mountings with prepared bearings. No. 139,062; Jan. 18; v. 282; p. 557.
- Archer, Charles W., Gary, Ind. Preparation for treatment of pyorrhea. No. 141,845; May 3; v. 286; p. 181.
- Archibald, A. J., Co., Inc., New York, N. Y. Insect-powder. No. 147,908; Nov. 8.
- Archibald, Nevil A., Concord, N. C. Toy coaster-wagons. No. 143,320; May 31; v. 286; p. 1048.
- Architects' Small House Service Bureau of Minnesota, Inc., The, Minneapolis. St. Paul, and Duluth, Minn., and Grand Forks, N. D. Magazine periodical. No. 143,891; June 21; v. 287; p. 577.
- Architectural Review, Inc., The, New York, N. Y. Monthly publication. No. 140,315; Mar. 15; v. 284; p. 579.
- Arcuni & Schwald, New York, N. Y. Creepers, rompers, children's caps, bathing-suits, and dresses. No. 141,076; Apr. 12; v. 285; p. 379.
- Ardath Tobacco Company, Limited, London, England. Smoking-tobacco. No. 142,432; May 17; v. 286; p. 624.
- Ardath Tobacco Company, Limited, London, England. Cigarettes manufactured from Turkish tobacco. No. 142,433; May 17; v. 286; p. 624.
- Arden-Bennett Corporation, New York, N. Y. Foot-propelled land-vehicles for use by children. No. 142,434; May 17; v. 286; p. 624.
- Ardross Worsted Co., The, Frankford, Pa., and New York, N. Y. Worsteds in the piece. No. 147,539; Oct. 25.
- Area Manufacturing Co., assignor to Famous Sales Company, Chicago, Ill. Lubricating compound. No. 138,566; Jan. 4; v. 282; p. 185.
- Argonne Shirt Company, The, Philadelphia, Pa. Men's and boys' shirts and collars. No. 140,735; Mar. 29; v. 284; p. 941.
- Argos Steel Products Corporation, New York, N. Y. Steel castings and forgings. No. 147,909; Nov. 8.
- Argus Enterprises, Inc., The, Cleveland, Ohio. Screens for use with picture-projecting apparatus. No. 145,316; Aug. 2; v. 289; p. 177.
- Argus Manufacturing Company, Chicago, Ill. Eraser for typists' use. No. 148,566; Nov. 15.
- Argyle Chemical Works, Inc., The, Brooklyn, N. Y. Stove-polish. No. 143,537; June 7; v. 287; p. 181.
- Arkadia Medicine Company, New York, N. Y. Medicinal preparation for toothache. No. 141,725; Apr. 26; v. 285; p. 785.
- Arkansas Distributing Co., New York, N. Y. Fixing and developing acid. No. 147,474; Oct. 18.
- Arkansas Soft Pine Bureau, Little Rock, Ark. Lumber. Nos. 146,425-6; Sept. 6; v. 290; p. 206.
- Arlington Manufacturing Company, The, Canton, Ohio. Liquid paints, paste, and powdered paints for cement, &c. No. 141,075; Apr. 12; v. 285; p. 379.
- Arlington Manufacturing Company, The, Canton, Ohio. Paints for plastered walls and ceilings. No. 141,726; Apr. 26; v. 285; p. 785.
- Armc Co. Culvert & Flume Manufacturers' Association, Middletown, Ohio. Monthly periodical. No. 142,918; May 24; v. 286; p. 843.
- Armor Spark Plug Co., Newark, N. J. Spark-plugs. No. 139,755; Feb. 22; v. 282; p. 751.
- Armour Grain Company, Jersey City, N. J., and Chicago, Ill. Stock feed. No. 138,936; Jan. 18; v. 282; p. 553.
- Armstrong Company, The, Detroit, Mich. Cement. No. 142,919; May 24; v. 286; p. 843.
- Armstrong Cork Co., Pittsburgh and Lancaster, Pa. Publications issued monthly. No. 145,535; Aug. 9; v. 289; p. 407.
- Armstrong Packing Company, Dallas, Tex. Meat food product. No. 141,848; May 3; v. 286; p. 182.
- Armstrong, Sagar & Co., Manchester, England. Cotton piece goods. No. 141,849; May 3; v. 286; p. 182.
- Armstrong, Sagar & Co., Manchester, England. Cotton piece goods. No. 147,910; Nov. 8.
- Arneth and Minton Mfg. Co., Washington, D. C. Salve. No. 140,736; Mar. 29; v. 284; p. 941.
- Arnold, F. R., & Co., New York, N. Y. Rouge. No. 146,945; Sept. 27; v. 290; p. 803.
- Arnold, Harry, New York, N. Y. Cravats and neckties. No. 140,547; Mar. 22; v. 284; p. 745.
- Arnold, Henry J., Sterling, Kans. Ninety-five per cent. (95%) wheat-flour. No. 141,846; May 3; v. 286; p. 181.
- Aron, J., & Company Inc., New York, N. Y. Coffee, chocolate in bars, canned condensed milk and dried fish. No. 139,239; Feb. 1; v. 283; p. 187.
- Aron, J., & Company, Inc., New Orleans, La. Green coffee. No. 148,631; Nov. 22.
- Aron, J., & Company Inc., New York, N. Y. Coffee. No. 149,823; Dec. 27.
- Aronson, H., & Co., St. Paul, Minn. Feather dusters and dust-brushes. No. 139,240; Feb. 1; v. 283; p. 167.
- Arrow Chemical Company, St. Louis, Mo. Proprietary medicines for the relief of headaches, colds, &c. No. 149,824; Dec. 27.
- Arrowhead Springs Company, Los Angeles, Calif. Non-alcoholic beverages and syrups for making same. No. 143,783; June 7; v. 287; p. 189.
- Art Knit Hosiery Company, Philadelphia, Pa. Hosiery. No. 147,267; Oct. 11.
- Artercraft Clothes Inc., Baltimore, Md. Coats, pants, vests, and overcoats. No. 147,540; Oct. 25.
- Arthur Balfour Steel Co. Inc., The, Wilmington, Del., and Boston, Mass. Steel bars. No. 147,911; Nov. 8.
- Arthur, William L., Norwood, Ohio. Liquid or a paste for cleaning carpets, rugs, linoleums, &c. No. 140,737; Mar. 29; v. 284; p. 941.
- Arthur, William L., Norwood, Ohio. Soap paste or compound cleaner for home and factory use. No. 140,738; Mar. 29; v. 284; p. 941.
- Arto Co., The, Orange, N. J. Talking-machine records. No. 147,912; Nov. 8.
- Asahel Wheeler Company, Boston, Mass. Ready-mixed paints and varnishes. No. 149,547; Dec. 13.
- Asbestos Products Corporation, New York, N. Y. Liquid roofing. No. 143,784; June 7; v. 287; p. 189.
- Aseptico Laboratories, Inc., Rochester, N. Y. Antiseptic solution to be applied to the mucous membrane. No. 143,538; June 7; v. 287; p. 181.
- Asfour, Sayda, Brooklyn, N. Y. Medicated salve for the treatment of cuts or bruises. No. 148,782; Nov. 29.
- Ashby Printing Company, Erie, Pa. Paper suitable for use in printing and writing. No. 141,727; Apr. 26; v. 285; p. 785.
- Ashby Printing Company, Erie, Pa. Paper suitable for use in printing and writing. No. 144,688; July 19; v. 288; p. 615.
- Ashcraft-Wilkinson Company, Atlanta, Ga. Cotton-seed meal for use as an animal food. No. 143,539; June 7; v. 287; p. 181.
- Ashcraft-Wilkinson Company, Atlanta, Ga. Cotton-seed meal for animal food. No. 147,541; Oct. 25.
- Ashwell, Henry, & Company (1908), Limited, Nottingham, England. Dyes. No. 140,073; Mar. 8; v. 284; p. 363.
- Ashwell & Nesbit, Ltd. Barkby Lane, Leicester, England. Hydraulic pumps and parts thereof. No. 141,847; May 3; v. 286; p. 182.
- Asselin, Homer L., San Francisco, Calif. Liquid mouth-wash and antiseptic. No. 148,983; Dec. 6.
- Associated American Industries Inc., New York, N. Y. Blankets and piece goods. No. 139,756; Feb. 22; v. 283; p. 751.
- Associated Clothiers, The, Sparta, Ill. Collars, underwear, shirts, sweaters, neck wear, gloves, &c., for men and boys. No. 144,689; July 19; v. 288; p. 615.
- Associated Dental Supply Co., San Francisco, Calif. Dental pastes, mouth-washes, and pyorrhea remedies. No. 139,241; Feb. 1; v. 283; p. 167.
- Associated Equipment Company, Limited, The, Westminster, London, England. Motor-vehicles. No. 143,277; May 31; v. 286; p. 1047.
- Associated First National Pictures Inc., New York, N. Y. Motion-picture films. No. 141,028; Mar. 29; v. 284; p. 951.
- Associated First National Pictures Inc., New York, N. Y. Motion-picture films. No. 144,690; July 19; v. 288; p. 615.
- Associated Fruit Co., Chicago, Ill. Cantaloups. No. 141,813; Apr. 19; v. 285; p. 565.
- Associated Manufacturers' Company, Milwaukee, Wis. Toilet-paper fixtures. No. 144,170; June 28; v. 287; p. 773.
- Associated Merchandising Corporation, Newark, N. J., and New York, N. Y. Boys' knickerbocker suits. No. 143,279; May 31; v. 286; p. 1047.
- Associated Merchandising Corporation, Newark, N. J., and New York, N. Y. Toilet preparations—namely, perfume, toilet water, cold-cream, &c. No. 148,349; Nov. 15.
- Associated Oil Company, San Francisco, Calif. Lubricants, consisting of oils and greases. No. 143,278; May 31; v. 286; p. 1047.
- Associated Oil Company, San Francisco, Calif. Lubricating-oils and gasoline. No. 146,166; Sept. 6; v. 290; p. 197.
- Associated Oil Company, San Francisco, Calif. Petroleum products. No. 147,913; Nov. 8.
- Associated Welding Companies, New York, N. Y. Special steel-wire welding metal. No. 139,477; Feb. 8; v. 283; p. 349.
- Association of Army and Navy Stores, Inc., New York, N. Y. Monthly magazine or house organ. No. 145,536; Aug. 9; v. 289; p. 407.
- Asti Grape Products Company, San Francisco, Calif. Grape-syrup for making non-alcoholic beverages. Nos. 140,316-17; Mar. 15; v. 284; p. 579.
- Aterite Co. Inc., New York, N. Y. Non-ferrous alloys for the manufacture of valves, cocks, castings, &c. No. 144,691; July 19; v. 288; p. 615.
- Athletic Underwear Company, Inc., New York, N. Y. Children's underwear. No. 143,892; June 21; v. 287; p. 577.
- Athol Manufacturing Company, Athol, Mass. Pyroxylin-coated fabrics in the piece. No. 146,633; Sept. 13; v. 290; p. 425.
- Atkins, E. C., & Company, Indianapolis, Ind. Unmounted abrasive wheels formed of artificial abrasive material. No. 142,435; May 17; v. 286; p. 624.
- Atkinson Mill & Manufacturing Company, Oakland, Calif. Velocipedes. No. 141,850; May 3; v. 286; p. 182.



*Alphabetical list of registrants of trade-marks—Continued.*

- Atlanta Barbers' Supply Co., Atlanta, Ga. Hair-tonics and scalp-dressing. No. 144,987; July 19; v. 288; p. 625.
- Atlanta Barbers' Supply Co., Atlanta, Ga. Toilet water and perfumes. No. 150,208; Dec. 27.
- Atlanta Stove Works, Atlanta, Ga. Stoves. No. 143,896; June 21; v. 287; p. 577.
- Atlantic Chemical Co., Irvington, N. J. Lacquer. No. 144,512; July 5; v. 288; p. 197.
- Atlantic Dyestuff Company, Boston, Mass. Moth-exterminator and insecticide. No. 140,072; Mar. 8; v. 284; p. 363.
- Atlantic Grass Seed Co., Inc., New York, N. Y. Grass-seed lawn mixture. Nos. 143,893-4; June 21; v. 287; p. 577.
- Atlantic Macaroni Co. Inc., Long Island City, N. Y. Macaroni. No. 149,825; Dec. 27.
- Atlantic Monthly Company, The, Boston, Mass. Periodical published monthly. No. 143,895; June 21; v. 287; p. 577.
- Atlantic Paper Company, Philadelphia, Pa. Paper generally used for printing and writing and mailing envelopes. No. 145,033; July 26; v. 288; p. 811.
- Atlantic Refining Company, The, Philadelphia, Pa. Linseed-oil substitute. No. 146,167; Sept. 6; v. 290; p. 197.
- Atlantic Refining Company, The, Philadelphia, Pa. Certain oils and greases. No. 148,984; Dec. 6.
- Atlantic Refining Company, The, Philadelphia, Pa. Turpentine substitute. No. 149,340; Dec. 13.
- Atlantic Rubber Mfg. Corporation, New York, N. Y. Dental rubber and dam, bulbs for dental use, and plaster-bowls. No. 148,783; Nov. 29.
- Atlantic Stamping Company, Rochester, N. Y. Canners for preserving food. No. 139,478; Feb. 8; v. 283; p. 349.
- Atlas Body Works, Bridgeport, Conn. Automobile-truck bodies. No. 143,540; June 7; v. 287; p. 181.
- Atlas Bolt & Screw Co., The, Cleveland, Ohio. Bolts, screws, studs, rivets, nuts, and clevis-pins. No. 147,268; Oct. 11.
- Atlas Box Company, Chicago, Ill. Boxes made of fiber-board, pulp-board, &c. No. 139,475; Feb. 8; v. 283; p. 349.
- Atlas Cereal Company, Kansas City, Mo. Rolled and steelt oats, cream-meal, cornmeal, hominy-grits, pearl-hominy. No. 148,986; Dec. 6.
- Atlas Chain Co., Ltd., The, Birmingham, England. Drive-chains. No. 145,034; July 26; v. 288; p. 811.
- Atlas Chemical Company, Waltham, Mass. Sulfuret of antimony. No. 140,739; Mar. 29; v. 284; p. 941.
- Atlas Crucible Steel Co., Dunkirk, N. Y. Tool-steel. No. 143,897; June 21; v. 287; p. 577.
- Atlas Crucible Steel Co., Dunkirk, N. Y. Steel. No. 143,898; June 21; v. 287; p. 577.
- Atlas Truck Corporation, York, Pa. Motor-trucks. No. 148,350; Nov. 15.
- Attias Brothers, New York, N. Y. Infants' clothing. No. 148,784; Nov. 29.
- Attract-O-Scope Corporation, New York, N. Y. Stereopticons. No. 139,112; Jan. 25; v. 282; p. 733.
- Atwater Fruit Exchange, Atwater, Calif. Fresh deciduous and vinous fruits. No. 143,541; June 7; v. 287; p. 181.
- Atwater Kent Manufacturing Company, Philadelphia, Pa. Electrical automotive accessories. No. 141,282; Apr. 12; v. 285; p. 387.
- Aubert, L. & Cia., Buenos Aires, Argentina. Toilet articles. No. 142,355; May 10; v. 286; p. 407.
- Auburn Automobile Company, Auburn, Ind. Automobiles. Nos. 140,695-6; Mar. 22; v. 284; p. 749.
- Auburn Garment Company, The, Bryan, Ohio. Ladies undershirts and bloomers. No. 140,548; Mar. 22; v. 284; p. 743.
- Auburn Ignition Mfg. Co., Richmond, Ind. Spark-plugs. No. 141,728; Apr. 26; v. 285; p. 785.
- Auerbach, Charles H., and R. P. Auerbach, Chicago, Ill. Insecticides, germicides, and related products. No. 149,826; Dec. 27.
- Auerbach, D., & Sons, New York, N. Y. Chocolates. No. 138,770; Jan. 11; v. 282; p. 375.
- Auerbach, D., & Sons, New York, N. Y. Chocolates. No. 139,479; Feb. 8; v. 283; p. 349.
- Auerbach, D., & Sons, New York, N. Y. Candy. No. 141,851; May 3; v. 286; p. 182.
- Auerbach, D., Sons, New York, N. Y. Chocolates. No. 143,280; May 31; v. 286; p. 1047.
- Auerbach, D., & Sons, New York, N. Y. Chocolates. No. 144,692; July 19; v. 288; p. 615.
- Auerbach, D. & Sons, New York, N. Y. Chocolates. No. 145,317; Aug. 2; v. 289; p. 177.
- Auerbach, D., & Sons, New York, N. Y. Candy. No. 147,044; Sept. 27; v. 290; p. 807.
- Auerbach, D., & Sons, New York, N. Y. Chocolates. No. 148,987; Dec. 6.
- Auerbach, M., & Sons, New York, N. Y. Men's silk shirts. No. 143,900; June 21; v. 287; p. 577.
- Auerbach, M., & Sons, New York, N. Y. Men's silk shirts. No. 144,693; July 19; v. 288; p. 615.
- August Knitting Corporation, Utica, N. Y. Children's nightgowns, sleeping-garments, and pajamas. No. 143,543; June 7; v. 287; p. 181.
- Augusta Ice & Beverage Company, Augusta, Ga. Malt-syrup for food purposes. No. 141,483; Apr. 26; v. 285; p. 777.
- Augusta Ice & Beverage Company, Augusta, Ga. Malt-syrup and hop compound for making non-intoxicating cereal beverages. No. 143,542; June 7; v. 287; p. 181.
- Ault & Wiborg Company of N. Y., The, New York, N. Y. Steel-die printing-inks of various tints and colors. No. 145,035; July 26; v. 288; p. 811.
- Aunt Jemima Mills Company, St. Joseph, Mo. Cooking and salad oils. No. 146,681; Sept. 20; v. 290; p. 631.
- Aurora Medicine Company, Bullard, Tex. Medicinal compound for appendicitis and other ailments of the digestive organs. No. 142,920; May 24; v. 286; p. 843.
- Aurora Refining Company, Aurora, Ill. Aluminum, brass, copper, &c. No. 139,113; Jan. 25; v. 282; p. 733.
- Aurora Tool Works, Aurora, Ind. Metal-drilling machines. No. 147,914; Nov. 8.
- Austin Machinery Corporation, New York, N. Y. Certain machinery. No. 145,246; July 26; v. 288; p. 820.
- Austin, Nichols & Company Incorporated, Brooklyn and New York, N. Y. Canned vegetables and fruits. No. 139,243; Feb. 1; v. 283; p. 167.
- Austin, Nichols & Company, Incorporated, Brooklyn and New York, N. Y. Canned food products. No. 146,168; Sept. 6; v. 290; p. 197.
- Austin, W. E., Machinery Co., Atlanta, Ga. Machinery and tools. No. 141,077; Apr. 12; v. 285; p. 379.
- Auto Ordnance Corporation, New York, N. Y. Pistols, rifles, machine-guns, submachine-guns, &c. No. 140,318; Mar. 15; v. 284; p. 579.
- Auto Ordnance Corporation, New York, N. Y. Pistols. No. 140,319; Mar. 15; v. 284; p. 579.
- Auto Ordnance Corporation, New York, N. Y. Machine-guns. No. 140,320; Mar. 15; v. 284; p. 579.
- Auto Ordnance Corporation, New York, N. Y. Pistols. No. 146,682; Sept. 20; v. 290; p. 631.
- Auto-Ordnance Corporation, New York, N. Y. Shotguns, pistols, rifles, machine-guns, submachine-guns, &c. No. 149,828; Dec. 27.
- Auto Specialties Company, Inc., Baltimore, Md. Coating for electric insulation. No. 141,314; Apr. 19; v. 285; p. 565.
- Autohome Plate Company, Ellensburg, Wash. Name and license plates for motor-vehicles. No. 149,827; Dec. 27.
- Automatic Appliance Company, The, St. Louis, Mo. Gasolene-gages. No. 140,256; Mar. 8; v. 284; p. 369.
- Automatic Clerk Company, Newark, N. J. Chewing-gum. No. 138,771; Jan. 11; v. 282; p. 375.
- Automatic Fuel Saving Co., Wilmington, Del., and Philadelphia, Pa. Compressed-air systems of automatic combustion control for steam-boilers. No. 148,632; Nov. 22.
- Automatic Illuminated Advertising Corporation, New York, N. Y. Electrically-operated stereopticon-slide projectors and parts thereof. No. 142,922; May 24; v. 286; p. 843.
- Automatic Safety Tire Valve Corporation, New York, N. Y. Tire-valve fixtures. No. 139,480; Feb. 8; v. 283; p. 349.
- Automatic Safety Tire Valve Corporation, New York, N. Y. Tire-valves. No. 139,442; Feb. 1; v. 283; p. 174.
- Automobile Club of St. Louis, St. Louis, Mo. Magazines published monthly. No. 147,915; Nov. 8.
- Automobile Owners' Tire Corporation, St. Paul, Minn. Automobile tires and tubes of rubber. No. 148,785; Nov. 29.
- Automobiles, Rear-view mirrors for. Sargent Company. No. 149,729; Dec. 20.
- Automotive Exchange of America Company, The, Cleveland, Ohio. Oil-cans. No. 138,937; Jan. 18; v. 282; p. 553.
- Automotive Gear Works, Atlanta, Ga. Automobile gears and shafting, transmission-gears, &c. No. 148,988; Dec. 6.
- Automotive Lubricant Company, San Antonio, Tex. Lubricating-oil. No. 148,989; Dec. 6.
- Automotive Manufacturing Company, Dayton, Ohio. Auxiliary air-inlet devices for internal-combustion engines, grease cups and guns. No. 143,899; June 21; v. 287; p. 577.
- Automotive Parts Mfg. Co., New York, N. Y. Rear-view automobile-mirrors. No. 140,321; Mar. 15; v. 284; p. 579.
- Automotive Specialty Manufacturing Co., Sacramento, Calif. Chemical oils and greases used for expanding wood and arresting the shrinkage thereof. No. 143,901; June 21; v. 287; p. 577.
- Available Truck Company, Chicago, Ill. Automobile-trucks. No. 141,729; Apr. 26; v. 285; p. 785.
- Available Truck Company, Chicago, Ill. Automobile-trucks. No. 143,785; June 7; v. 287; p. 189.
- Avalon Farms Company, The, Chicago, Ill. Tonic in tablet form for hogs. No. 138,938; Jan. 18; v. 282; p. 553.
- Avalon Farms Company, The, Chicago, Ill. Bone-builder and conditioner for hogs. No. 142,923; May 24; v. 286; p. 843.
- Avoco Products Co., Chicago, Ill. Food-flavoring extract of vanilla compound. No. 140,074; Mar. 8; v. 284; p. 363.
- Avedon & Company, Inc., New York, N. Y. Clothing. No. 138,939; Jan. 18; v. 282; p. 553.



- Averell, A. J., Riverside, Calif. Variety of fertilizer. No. 142,437; May 17; v. 286; p. 624.
- Avery, B. F., & Sons, Louisville, Ky. Agricultural implements. No. 141,852; May 3; v. 286; p. 182.
- Avery, B. F., & Sons, Louisville, Ky. Non-metallic ropes, fiber cords, and twines. No. 142,438; May 17; v. 286; p. 624.
- Avery Company, Peoria, Ill. Tractors and motor-propelled agricultural implements. No. 146,683; Sept. 20; v. 290; p. 631.
- Avila, Antonio P., Lowell, Mass. Preparation used as a hair-tonic. No. 142,924; May 24; v. 286; p. 843.
- Avon Specialties Manufacturing Company, The, Baltimore, Md. Measures for pumps. No. 138,893; Jan. 11; v. 282; p. 379.
- Awl Specialty Co., The, Paterson, N. J. Hat-bands, skirt and dress beltings, &c. No. 138,846; Jan. 11; v. 282; p. 377.
- Ayer, Harriet Hubbard, New York, N. Y. Tonic and invigorant for the hair and scalp. No. 139,244; Feb. 1; v. 283; p. 167.
- Ayer, Harriet Hubbard, New York, N. Y. Vanishing cream. No. 149,829; Dec. 27.
- Ayotte, Joseph R., Chicago, Ill. Spark-plugs. No. 141,853; May 3; v. 286; p. 182.
- Ayres, Charles S., Riverton, N. J. Indicators for liquid-dispensing pumps. No. 142,925; May 24; v. 286; p. 843.
- Ayres, Charles S., Riverton, N. J. Indicators for liquid-dispensing pumps. No. 143,545; June 7; v. 287; p. 181.
- Ayres, John F., Salem, N. J. White potatoes. No. 138,772; Jan. 11; v. 282; p. 375.
- B. Stilling-Andersen, Inc., New York, N. Y. Oleomargarin. No. 145,464; Aug. 2; v. 289; p. 182.
- B. & B. Sign Co. Inc., New York, N. Y. Electric display-signs for windows and show-cases. No. 148,603; Nov. 15.
- B. & S. Manufacturing Co., Brooklyn, N. Y. Fire-pumps and grease-guns. No. 145,544; Aug. 9; v. 289; p. 407.
- B F K Manufacturing Company, The, Hartford, Conn. Hairpins. No. 147,547; Oct. 25.
- B. J. S. Specialty Company, New York, N. Y. Prepared cloths for use on windshields of vehicles and transparencies to prevent the accumulation of rain and moisture. No. 148,360; Nov. 15.
- Baach, J., Co., Chicago, Ill. Women's one-piece underwear. No. 143,281; May 31; v. 286; p. 1047.
- Babbitt, B. T., Inc., New York, N. Y. Caustic soda. No. 140,740; Mar. 29; v. 284; p. 941.
- Babbitt Steam Specialty Co., New Bedford, Mass. Sprocket-valve wheel-rims and chain-guides. No. 138,990; Dec. 6.
- Babbitt Steam Specialty Co., New Bedford, Mass. Sheet-packing. No. 149,341; Dec. 13.
- Babcock, A. P., Company, New York, N. Y. Talcum and face powders; toilet extract and water, rouge, &c. No. 146,169; Sept. 6; v. 290; p. 197.
- Baccarino, Umberto J., Fort Lee, N. J. Tomato spaghetti sauce. No. 143,761; June 7; v. 287; p. 188.
- Bach, Leseem, New York, N. Y. Piece goods. No. 148,633; Nov. 22.
- Bachan, L. G., Watsonville, Calif. Fresh fruits. No. 141,484; Apr. 26; v. 285; p. 777.
- Bachman Chocolate Manufacturing Co., Mount Joy, Pa. Peanut bars, milk-chocolate, chocolate coatings, &c. No. 139,063; Jan. 18; v. 282; p. 557.
- Bachman Chocolate Manufacturing Co., Mount Joy, Pa. Chocolate and chocolate candy. No. 139,672; Feb. 8; v. 283; p. 356.
- Bachmuth, Sarah, New York, N. Y. Women's outer dresses. No. 140,741; Mar. 29; v. 284; p. 941.
- Bachrach, Harry J., New York, N. Y. Organdie, English printed voiles, dotted swisses, and French novelties in the piece. No. 143,902; June 21; v. 287; p. 577.
- Bacon Bro's Co., The, Toledo, Ohio. Fabric and leather gloves and mittens. No. 140,549; Mar. 22; v. 284; p. 743.
- Badger Manufacturing Corporation, Milwaukee, Wis. Bumpers, creepers, steering-wheels, luggage-carriers, &c. No. 145,036; July 26; v. 288; p. 811.
- Badgley, Edna H., Springfield, Mo. Toy wagons. Nos. 139,480-1; Feb. 8; v. 283; p. 340.
- Baer Baking Co., Oakland and San Francisco, Calif. Food-stuffs—namely, cake. No. 145,318; Aug. 2; v. 289; p. 177.
- Baer Bros. Co., Cincinnati, Ohio. Neckties and scarfs. No. 138,752; Jan. 4; v. 282; p. 191.
- Baer & Wilde Company, The, Attleboro, Mass. Cuff-buttons. No. 141,730; Apr. 26; v. 285; p. 785.
- Baer & Wilde Co., The, Attleboro, Mass. Cuff-buttons. No. 149,753; Dec. 20.
- Baggot, Harry A., New York, N. Y. Adhesive cements. No. 142,439; May 17; v. 286; p. 624.
- Bagshaw, W. H., Co., Lowell, Mass. Phonographic needles. Nos. 140,742-3; Mar. 29; v. 284; p. 941.
- Bagshaw, W. H., Co., Lowell, Mass. Phonographic needles. No. 141,078; Apr. 12; v. 285; p. 379.
- Bagshaw, W. H., Co., Lowell, Mass. Phonographic needles. No. 146,684; Sept. 20; v. 290; p. 631.
- Bahr, Theodore F., Weehawken, N. J. Nail-polish. No. 140,075; Mar. 8; v. 284; p. 363.
- Bailey, B. F., & Co., New York, N. Y. Cotton table-damask, pattern-cloths, and napkins, Bleached, &c. No. 139,757; Feb. 22; v. 283; p. 751.
- Bailey, B. F., & Co., New York, N. Y. Lawns, cotton and woolen goods in the piece. No. 139,923; Feb. 22; v. 283; p. 757.
- Bailey, B. F., and Co., New York, N. Y. Bleached, unbleached, dyed, and printed linen piece goods, napkins, scarfs, &c. No. 144,694; July 19; v. 288; p. 615.
- Bailey Junius H., Macon, Ga. Coffee. No. 141,485; Apr. 26; v. 285; p. 777.
- Bailey, Junius H., Macon, Ga. Coffee. No. 148,568; Nov. 15.
- Baines Engineering Company, The, Canal Dover, Ohio. Tractors. No. 147,269; Oct. 11.
- Baird Brothers Co., Inc., Boston, Mass. Candy. No. 146,946; Sept. 27; v. 290; p. 803.
- Bakal, S., & Son, New York, N. Y. Hair-nets. No. 148,634; Nov. 22.
- Bake-Rite Oven Mfg. Company, Reno, Nev., and San Francisco, Calif. Baking plants. No. 145,037; July 26; v. 288; p. 811.
- Bake-Rite Oven Mfg. Company, Reno, Nev., and San Francisco, Calif. Ovens, stoves, ranges, &c. No. 145,038; July 26; v. 288; p. 811.
- Bake-Rite Oven Manufacturing Company, Reno, Nev., and San Francisco, Calif. Electrical devices. No. 146,170; Sept. 6; v. 290; p. 197.
- Baker, Charles H., Jr., Rochester, N. Y. Fresh citrus fruits. No. 143,546; June 7; v. 287; p. 181.
- Baker Chemical Company, Havelock, Nebr. Liquid preparations. No. 146,427; Sept. 6; v. 290; p. 207.
- Baker, Curtis A., Prescott, Wis. Preparation for treatment of heaves. No. 149,834; Dec. 27.
- Baker, Geo., & Sons, Brockton, Mass. Clenching-nails. No. 149,634; Dec. 20.
- Baker, George A., Philadelphia, Pa. Fuel-vaporizers for internal-combustion engines. No. 147,542; Oct. 25.
- Baker, George W., Dallas, Tex. Shoe and leather polish. No. 149,635; Dec. 20.
- Baker, H. A., Inc., Sumner, Wash. Canned fruits, berries, and vegetables. No. 141,315; Apr. 19; v. 285; p. 565.
- Baker, H. A., Inc., Sumner, Wash. Canned fruits and vegetables. No. 142,926; May 24; v. 286; p. 843.
- Baker, H. A., Inc., Sumner, Wash. Canned fruits and vegetables. No. 143,547; June 7; v. 287; p. 181.
- Baker, H. A., Inc., Sumner, Wash. Canned fruits and vegetables. No. 146,947; Sept. 27; v. 290; p. 803.
- Baker, J., & Sons, Evansville, Ind. Overalls, coats, trousers, &c. No. 143,903; June 21; v. 287; p. 577.
- Baker, Louis H., Evansville, Ind. Men's jackets, one-piece outer suits, overalls. No. 142,440; May 17; v. 286; p. 624.
- Baker, Mary E., Washington, D. C. Ladies' hats and bonnets. No. 138,567; Jan. 4; v. 282; p. 185.
- Baker, Nora T., Columbus, Ohio. Monthly magazine. No. 148,351; Nov. 15.
- Baker R & L Company, The, Cleveland, Ohio. Vehicle bodies. No. 138,568; Jan. 4; v. 282; p. 185.
- Baker R & L Company, The, Cleveland, Ohio. Axles for vehicles. No. 144,513; July 5; v. 288; p. 198.
- Baker R & L Company, The, Cleveland, Ohio. Bodies or frames for vehicles. No. 144,514; July 5; v. 288; p. 198.
- Baker R & L Company, The, Cleveland, Ohio. Electric controllers. No. 149,754; Dec. 20.
- Baker Shoe Co., Inc., Haverhill, Mass. Ladies' house-slippers of leather. No. 142,441; May 17; v. 286; p. 624.
- Baker, Walter, & Company, Ltd., Boston, Mass. Sweet chocolate. No. 144,544; July 12; v. 288; p. 423.
- Bakers' Products Company, The, Cleveland, Ohio. Oil compound used in the baking of food products. No. 148,786; Nov. 29.
- Balaszek, Paul A., Cleveland, Ohio. Palliative for rheumatism, colds, &c. No. 146,685; Sept. 20; v. 290; p. 631.
- Balda, Joseph O., Newark, Ohio, assignor to Central Glass Works, Wheeling, W. Va. Glass goblet or other similar article of manufacture. No. 58,534; Aug. 2; v. 289; p. 124.
- Baldwin Company, The, Cincinnati, Ohio. Pianos, player-pianos, and piano-players. No. 140,537; Mar. 15; v. 284; p. 586.
- Baldwin Company, The, Cincinnati, Ohio. Magazine published from time to time. No. 143,904; June 21; v. 287; p. 577.
- Baldwin, Estella, Huntington, N. Y. Liniment used in the treatment of sprains, bruises, &c. No. 142,927; May 24; v. 286; p. 843.
- Baldwin Locomotive Works, The, Philadelphia, Pa. Lubricating oils and greases. No. 140,323; Mar. 15; v. 284; p. 579.
- Baldwin, Thomas R., Chicago, Ill. Game apparatus. No. 142,442; May 17; v. 286; p. 624.
- Balfour, Arthur, & Company Limited, Sheffield, England. Cast, tool, magnet, &c., steel. No. 141,854; May 3; v. 286; p. 182.
- Ballard & Ballard Company, Louisville, Ky. Wheat-flour. No. 148,992; Dec. 6.
- Ballew, Elmer L., Chicago, Ill. Doughnuts, pastry goods, and sandwiches. No. 141,855; May 3; v. 286; p. 182.



## Alphabetical list of registrants of trade-marks—Continued.

- Ballou, B. A., & Co. Inc., Providence, R. I. Jewelry. No. 141,283; Apr. 12; v. 285; p. 387.
- Ballston Knitting Co., Inc. (See Shutts, F. J., & Co., assignor.)
- Bally Company, Inc., Wilmington, Del., and New York, N. Y. Boots, shoes, slippers, and shoe-findings. No. 142,231; May 10; v. 286; p. 403.
- Bally Company, Inc., Wilmington, Del., and New York, N. Y. Boots, shoes, slippers, gaiters, &c. No. 142,232; May 10; v. 286; p. 403.
- Bally Company, Inc., Wilmington, Del., and New York, N. Y. Certain articles of clothing. Nos. 148,993-4; Dec. 6.
- Balogh, Endre, Newark, N. J. Envelop. No. 58,535; Aug. 2; v. 289; p. 125.
- Baltimore Butterine Co., The, Baltimore, Md. Oleomargarin. No. 138,369; Jan. 4; v. 282; p. 185.
- Baltimore Butterine Co., The, Baltimore, Md. Oleomargarin. No. 141,079; Apr. 12; v. 285; p. 379.
- Baltimore Butterine Co., The, Baltimore, Md. Oleomargarin. Nos. 141,186-7; Apr. 26; v. 285; p. 777.
- Baltimore Butterine Co., The, Baltimore, Md. Oleomargarin. No. 142,857; May 17; v. 286; p. 637.
- Baltimore Butterine Co., The, Baltimore, Md. Oleomargarin. No. 143,282; May 31; v. 286; p. 1047.
- Baltimore Soap and Candles Co., Baltimore, Md. Medicine for the skin, such as hemorrhoids, &c. No. 144,340; July 5; v. 288; p. 31.
- Baltranas, Paul A., Chicago, Ill. Laxative medicine or bitters. No. 138,942; Jan. 18; v. 282; p. 553.
- Bamberger, L., & Co., Newark, N. J. Pearls. No. 139,758; Feb. 22; v. 283; p. 751.
- Bancroft, Edwin, Oklahoma, Okla. Construction materials. No. 141,856; May 3; v. 286; p. 182.
- Banister & Pollard Co., Newark, N. J. Ash, gasoline, garbage, and oil cans, tool boxes and bags, water-pails. No. 145,247; July 26; v. 288; p. 820.
- Banister & Pollard Co., Newark, N. J. Certain non-ferrous metals. No. 145,248; July 26; v. 288; p. 820.
- Banister & Pollard Co., Newark, N. J. Certain hardware. No. 146,428; Sept. 6; v. 290; p. 207.
- Banister & Pollard Co., Newark, N. J. Cutlery, machines, and tools. No. 147,377; Oct. 4.
- Bankers Protective Appliance Corporation, New York, N. Y. Reinforced glass. No. 142,928; May 24; v. 286; p. 843.
- Bankers Trust Company, St. Louis, Mo. Check and bank books, savings-bank books, checks, drafts, bills, and notes. No. 147,917; Nov. 8.
- Bankers Security Ink Company, Buffalo, N. Y. Writing-ink. No. 139,706; Feb. 15; v. 283; p. 571.
- Banks, John D., Colwyn, Pa., assignor to Victory Manufacturing Co., Audubon, N. J. Glare-shield for vehicles. No. 58,686; Aug. 30; v. 289; p. 952.
- Banner Silk Knitting Mills, Inc., New York, N. Y. Textile fabrics—namely, silk jersey-cloth. No. 143,905; June 21; v. 287; p. 577.
- Ranquetier Zola Co., Cleveland, Ohio. Service-rig for pyramiding plates, dishes, &c., for hotels, &c. No. 148,323; Nov. 8.
- Barbee Wire & Iron Works, La Fayette, Ind., and Chicago, Ill. Wire baskets. No. 147,918; Nov. 8.
- Barber Asphalt Paving Company, The, Philadelphia, Pa. Asphaltum. No. 144,545; July 12; v. 288; p. 423.
- Barber Asphalt Paving Company, The, Philadelphia, Pa. Waterproof roofing-sheets and shingles. No. 144,695; July 19; v. 288; p. 615.
- Barber-Greene Company, Aurora, Ill. Conveying and loading machinery. No. 139,483; Feb. 8; v. 283; p. 349.
- Barbieri, Peter, Perth Amboy, N. J. Bends of sole-leather. No. 143,006; June 21; v. 287; p. 578.
- Barbieri, Peter, Perth Amboy, N. J. Sole-leather. No. 145,039; July 26; v. 288; p. 811.
- Barbour, Ben F., Birmingham, Ala. Certain beverage and syrup for making same. No. 149,303; Dec. 6.
- Barbour Brothers Company, The, Paterson, N. J. Linen thread. No. 149,755; Dec. 20.
- Barbour Flax Spinning Company, Paterson, N. J. Nos. 141,080-2; Apr. 12; v. 285; p. 379.
- Barbour Flax Spinning Company, Paterson, N. J. Linen thread. No. 142,443; May 17; v. 286; p. 624.
- Barbour, J. E., Company, Paterson, N. J. Threads and yarns. Nos. 142,233-4; May 10; v. 286; p. 403.
- Barbour, J. E., Company, Paterson, N. J. Yarns. No. 145,602; Aug. 16; v. 289; p. 591.
- Barbour, J. E., Company, Paterson, N. J. Twines. No. 146,948; Sept. 27; v. 290; p. 803.
- Barbour, J. E., Company, Paterson, N. J. Twines. No. 149,342; Dec. 13.
- Barclay & Barclay, Live Oak, Fla. Disinfectants and deodorizers. No. 147,196; Oct. 4.
- Barclay & Co., Wilmington, Del., and New York, N. Y. Talcum powder. No. 141,317; Apr. 19; v. 285; p. 565.
- Barclay & Co., Wilmington, Del., and New York, N. Y. Toilet preparations. No. 141,316; Apr. 19; v. 285; p. 565.
- Barclay & Co., Wilmington, Del., and New York, N. Y. Soaps. No. 147,270; Oct. 11.
- Barco Manufacturing Company, Chicago, Ill. Cross-heads, crosshead-shoes for fluid-operated engines, and reversing-gear mechanism. No. 142,444; May 17; v. 286; p. 624.
- Barcolo Manufacturing Company, Buffalo, N. Y. Beds, cribs, bed-springs, mattresses. No. 146,429; Sept. 6; v. 290; p. 207.
- Bardos, Coleman, Jr., New York, N. Y. Medicinal preparation. No. 142,235; May 10; v. 286; p. 403.
- Baren, Lehrman & Berler, Inc., New York, N. Y. Men's clothing consisting of suits and overcoats. No. 147,271; Oct. 11.
- Bargman, Theodore, Detroit, Mich. Clock and watch dials. No. 141,083; Apr. 12; v. 285; p. 379.
- Barke Gibbon Company, Philadelphia, Pa. Women's and misses' shoes of leather and fabric. No. 147,836; Nov. 1.
- Barker, C. B., & Co. Ltd., New York, N. Y. Sewing-machine needles, machine knitting-needles. No. 146,171; Sept. 6; v. 290; p. 197.
- Barker, Edward T., Oakland, Calif. Sheet-rubber patches. No. 144,171; June 28; v. 287; p. 773.
- Barker, Moore & Mein Medicine Company, The, Philadelphia, Pa. Condition-powders and medicine for poultry. No. 139,114; Jan. 25; v. 282; p. 733.
- Barker, Moore & Mein Medicine Company, The, Philadelphia, Pa. Household disinfectant. No. 142,356; May 10; v. 286; p. 407.
- Barker, Moore & Mein Medicine Company, The, Philadelphia, Pa. Dip and disinfectant for animals and poultry and household use. No. 143,786; June 7; v. 287; p. 189.
- Barker, Moore & Mein Medicine Company, The, Philadelphia, Pa. Poultry-disinfectant. No. 143,787; June 7; v. 287; p. 189.
- Barlow-Kimmet Co., The, New York, N. Y. Store-fixtures. No. 141,857; May 3; v. 286; p. 182.
- Barnebey-Cheney Engineering Company, The, Columbus, Ohio. Absorbent material to absorb gases. No. 146,172; Sept. 6; v. 290; p. 197.
- Barnes, Charles A., Leominster, Mass. Pocket and fine combs, barbers' combs, and men's and women's dressing-combs. No. 144,717; July 19; v. 288; p. 616.
- Barnes, Douglass, Corporation, New York, N. Y. Coal and coke. No. 142,445; May 17; v. 286; p. 624.
- Barnes, Monroe J., Burlington, Vt. Liniment. No. 140,324; Mar. 15; v. 284; p. 579.
- Barnes-Ross Company, The, Indianapolis, Ind. Monthly publication. No. 147,543; Oct. 25.
- Barnes, Wallace Co., The, Bristol, Conn. Tire-jimmies. No. 140,744; Mar. 29; v. 284; p. 941.
- Barnett, Peter E., Chicago, Ill. Non-alcoholic, maltless, artificial grape beverage and syrup for making same. No. 149,835; Dec. 27.
- Barney, Capen & Denham Co., Brockton, Mass. Leather boots and shoes. No. 138,570; Jan. 4; v. 282; p. 185.
- Barnhart Brothers & Spindler, Chicago, Ill. Certain metals, types, slugs, type-castings, linotype, &c. No. 147,475; Oct. 18.
- Barnstead Still and Sterilizer Co., Boston, Mass. Water-stills. No. 144,098; June 21; v. 287; p. 585.
- Barr & Stroud, Limited, Anniesland, Glasgow, Scotland. Instruments of precision. No. 146,174; Sept. 6; v. 290; p. 197.
- Barrett Adding Machine Company, Philadelphia, Pa. Portable calculating and adding machines. No. 139,443; Feb. 1; v. 283; p. 174.
- Barrett Brothers Company, Virginia, Minn. Coffee. No. 140,745; Mar. 29; v. 284; p. 941.
- Barrett, Carl A., Chicago, Ill. Candies, particularly chocolates and bonbons. No. 146,949; Sept. 27; v. 290; p. 803.
- Barrett Company, The, New York, N. Y. Bituminous paint. No. 141,858; May 3; v. 286; p. 182.
- Barrett Company, The, New York, N. Y. Synthetic tanning extract. No. 143,548; June 7; v. 287; p. 181.
- Barrett, Denton & Lynn Co., Dalton, Ga. Stock feed. No. 141,859; May 3; v. 286; p. 182.
- Barrett, George D., Cleveland, Ohio. Cartoons, pictures, drawings. No. 142,929; May 24; v. 286; p. 843.
- Barrett Machine Tool Company, Meadville, Pa. Cylinder boring and facing machines. No. 145,249; July 26; v. 288; p. 820.
- Barrow Mfg. Co., New York, N. Y. Ladies' underwear in one-piece garments. No. 140,550; Mar. 22; v. 284; p. 743.
- Bartels Brewing Company, The, Edwardsville borough, Pa. Beers, near beers, porter, stout, and ales. Nos. 141,860-3; May 3; v. 286; p. 182.
- Barth, Charles F., Inc., Spokane, Wash. Cigars. No. 142,446; May 17; v. 286; p. 624.
- Bartholomew, Kate L., Portland, Ore. Caps for children and for carnival purposes. No. 142,930; May 24; v. 286; p. 843.
- Bartlett-Collins Glass Co., Sapulpa, Okla. Baking-glassware. No. 143,283; May 31; v. 286; p. 1047.
- Bartlett, J. E., Company, The, Jackson, Mich. Stock food. No. 139,245; Feb. 1; v. 283; p. 167.
- Baruxes, Christ, Newark, Ohio. Hard and soft candies, &c. No. 139,246; Feb. 1; v. 283; p. 167.
- Barvoets, John F., Everton, Liverpool, England. Toilet preparations and chemicals. No. 139,247; Feb. 1; v. 283; p. 167.
- Barzyk, Martin, Chicago, Ill. Stomach remedy. No. 144,546; July 12; v. 288; p. 423.



- Basket Stores Company, Omaha, Nebr. Foods. No. 139,707; Feb. 15; v. 283; p. 541.
- Basle Company, Boston, Mass. Leather-dressing. No. 141,864; May 3; v. 286; p. 182.
- Bass, H. R., Kansas City, Mo. Liquid dye preparation. No. 148,995; Dec. 6.
- Bass-Hueter Paint Co., San Francisco, Calif. Paste and ready-mixed paints, varnishes, and stains. No. 138,571; Jan. 4; v. 282; p. 185.
- Bass-Hueter Paint Co., San Francisco, Calif. Paste and ready-mixed paints, varnishes, and stains. No. 149,836; Dec. 27.
- Bass, Ratcliff & Gretton, Limited, Burton-upon-Trent, England. Pale ale and beer. No. 138,572; Jan. 4; v. 282; p. 185.
- Bassick Company, The, Bridgeport, Conn. Casters. Nos. 149,347-8; Dec. 13.
- Bassick Manufacturing Co., The, Chicago, Ill. Certain lubricating apparatus. No. 148,635; Nov. 22.
- Basso, Salvatore, Chicago, Ill. Salve for hemorrhoids. No. 144,311; July 5; v. 288; p. 191.
- Bassong, Joseph C., Brooklyn, N. Y. Hosiery. No. 147,934; Nov. 8.
- Bastian-Morley Co., Laporte, Ind. Gas water-heaters. Nos. 138,573-4; Jan. 4; v. 282; p. 185.
- Bastian-Morley Co., Laporte, Ind. Gas water-heaters. No. 140,026; Mar. 1; v. 284; p. 175.
- Bastian-Morley Co., Laporte, Ind. Gas water-heaters. No. 143,907; June 21; v. 287; p. 578.
- Bastian-Morley Co., Laporte, Ind. Gas water-heaters. No. 146,634; Sept. 13; v. 290; p. 425.
- Bastian-Morley Co., La Porte, Ind. Thermos-jackets, a felt cover for water-heaters and boilers to conserve heat. No. 147,544; Oct. 25.
- Bastian-Morley Co., Laporte, Ind. Gas water-heaters. No. 148,787; Nov. 29.
- Batavia Rubber Company, The, Batavia, N. Y. Automobile tire casings and tubes of rubber. No. 139,248; Feb. 1; v. 283; p. 167.
- Bates & Abbott, Boston, Mass. Evaporated fruits. No. 144,547; July 12; v. 288; p. 423.
- Bates & Abbott, Boston, Mass. Table-salt. No. 146,066; Aug. 30; v. 289; p. 1013.
- Bates, F. J., Asheville, N. C. Solder. No. 141,731; Apr. 26; v. 285; p. 786.
- Bates, Lindon W., Mount Lebanon, N. Y. Stable mobile fuel. No. 148,788; Nov. 29.
- Bateson, Mildred, Olympia, Wash. Cleaning fluid, which preparation is a stain-remover of a chemical nature. No. 142,236; May 10; v. 286; p. 403.
- Bath-room fixtures and supplies. Golco Sanitary System, Inc. No. 145,101; July 26; v. 288; p. 813.
- Batterton Coffee Co., Birmingham, Ala. Baking-powder. No. 146,173; Sept. 6; v. 290; p. 197.
- Batts, Mrs. Alberta, Detroit, Mich. Hair-tonic and a preparation to straighten and give life to obstinate hair. No. 146,950; Sept. 27; v. 290; p. 803.
- Bayer, Abraham L., Indianapolis, Ind. Shoe-dressing. No. 144,342; July 5; v. 288; p. 191.
- Bauer & Black, Chicago, Ill. Corn and bunion plasters, liquid remedy for corns, &c. No. 140,746; Mar. 29; v. 284; p. 941.
- Bauer & Black, Chicago, Ill. Liquid remedy for corns, callosities, and bunions, and foot-powder. Nos. 140,747-8; Mar. 29; v. 284; p. 941.
- Bauman, Hyman & Co., New York, N. Y. Cotton piece goods. Nos. 143,550-1; June 7; v. 287; p. 181.
- Baumann, Alfred, Cassel, Germany. Measuring and scientific appliances. No. 142,447; May 17; v. 286; p. 624.
- Bausch & Lomb Optical Co., Rochester, N. Y. Ophthalmic lenses. No. 142,448; May 17; v. 286; p. 624.
- Bausch & Lomb Optical Co., Rochester, N. Y. Certain optical products, engineering and other instruments of precision. No. 148,789; Nov. 29.
- Bausch Machine Tool Company, Springfield, Mass. Universal joints. No. 144,099; June 21; v. 287; p. 585.
- Bausinger, Charles J., Cincinnati, Ohio. Soda-ash. No. 146,430; Sept. 6; v. 290; p. 207.
- Bay City Milling Co., Bay City, Mich. Wheat-flour. No. 138,575; Jan. 4; v. 282; p. 185.
- Bay City Milling Company, Bay City, Mich. Wheat-flour and cornmeal. No. 143,284; May 31; v. 286; p. 1047.
- Bay City Spring & Mattress Co., The, Bay City, Mich. Mattresses, pillows, bed-springs, brass and iron beds. No. 147,837; Nov. 1.
- Bay State Corset Company, Springfield, Mass. Corsets. No. 141,732; Apr. 26; v. 285; p. 786.
- Bayer Company, Inc., The, New York, N. Y. Antirheumatic, analgesic, and antipyretic. No. 148,636; Nov. 22.
- Bayerdorfer, Max, Huguenot Park, N. Y. Leg-rings used as poultry-markers. No. 147,919; Nov. 8.
- Bayne Manufacturing Company, Bushnell, Ill. Certain vehicle parts and accessories. No. 149,636; Dec. 20.
- Bayside Canning Co., Alviso, Calif. Canned fruits and vegetables. Nos. 141,488-9; Apr. 26; v. 285; p. 777.
- Bayuk Bros. Incorporated, Baltimore, Md., and Philadelphia, Pa. Cigars, cigarettes, tobacco. No. 145,250; July 26; v. 288; p. 820.
- Bazille & Partridge, Inc., St. Paul, Minn. Wall-paper. No. 143,549; June 7; v. 287; p. 181.
- Beacon Falls Rubber Shoe Co., The, Beacon Falls, Conn. Canvas rubber-soled shoes. No. 141,733; Apr. 26; v. 285; p. 786.
- Beacon Falls Rubber Shoe Company, The, Beacon Falls, Conn. Hosiery. No. 145,604; Aug. 16; v. 289; p. 591.
- Beadle, Blanche E., Springfield, Mass. Hair-curlers. No. 147,920; Nov. 8.
- Beadle, Lynn C., Detroit, Mich., assignor to American Accessories Company. Combination lifter and stand for vehicle-wheels. No. 149,837; Dec. 27.
- Beadleston & Woerz, New York, N. Y. Non-intoxicating cereal, malt beverage. No. 140,325; Mar. 15; v. 284; p. 579.
- Beal-Burrow Dry Goods Co., Little Rock, Ark. Hosiery, neckties, garters, gloves, suspenders. No. 146,431; Sept. 6; v. 290; p. 207.
- Beall, Annie D., Birmingham, Ala. Preparation for the treatment of cancers and cancerous sores. No. 149,838; Dec. 27.
- Beam, O. A., & Son, Avon, N. Y. Wheat-flour, buckwheat and rye flour, and Graham cornmeal. No. 145,319; Aug. 2; v. 289; p. 177.
- Bean, E., & Son Co., Jacksonville, Fla. Growers' supplies—viz., fruit and vegetable packages. No. 140,697; Mar. 22; v. 284; p. 749.
- Bear Creek Orchards, Medford, Oreg. Fresh deciduous fruits. No. 144,343; July 5; v. 288; p. 191.
- Beard, Richard M., New York, N. Y. Electric-lighting fixtures. No. 140,749; Mar. 29; v. 284; p. 941.
- Bearskin Cotton Mills, Inc., Monroe, N. C. Thread and yarn. No. 147,922; Nov. 8.
- Beaton, J. R., Co., Inc., New York, N. Y. Hosiery. No. 138,773; Jan. 11; v. 282; p. 375.
- Beatrice Creamery Company, Chicago, Ill., and Topeka, Kans. Oleomargarin. No. 145,320; Aug. 2; v. 289; p. 177.
- Beatrice Creamery Company, Chicago, Ill. Ice-cream. No. 145,605; Aug. 16; v. 289; p. 591.
- Beaty, Fred M., Liberal, Kans. Tooth powder and paste. No. 141,865; May 3; v. 286; p. 182.
- Beauford, Martha E., Los Angeles, Calif. Salve. No. 147,750; Nov. 1.
- Beaumont Cotton Oil Mill Co., Dallas, Tex. Feed for horses, mules, cattle, hogs, and poultry. No. 149,637; Dec. 20.
- Beaute-Viva Co., Bandana, Ky. Cream powder, perfumes, face-powder, &c. No. 141,490; Apr. 26; v. 285; p. 777.
- Beautiford Mirror Company. (See Calvert, Alan, assignor.)
- Beaver Company, The, Buffalo, N. Y. Construction materials. No. 142,237; May 10; v. 286; p. 403.
- Beaver Company, The, Buffalo, N. Y. Wall-board and building-paper. No. 142,931; May 24; v. 286; p. 843.
- Beaver Falls Art Tile Co., Beaver Falls, Pa. Wall, floor, and ceiling tiles. No. 141,866; May 3; v. 286; p. 182.
- Beaver Machine & Tool Co., Inc., Newark, N. J. Electrical appliances. No. 145,040; July 26; v. 288; p. 811.
- Beaver Varnish Co., Inc., The, Buffalo, N. Y. Mixed paints in oil, enamels, varnishes, &c. No. 146,686; Sept. 20; v. 290; p. 631.
- Beaver Varnish Company, Inc., Buffalo, N. Y. Mixed paints in oil, paint enamels, varnishes, &c. No. 148,352; Nov. 15.
- Bech Van Siclen & Co. Inc., New York, N. Y. Canned fruits, fish, vegetables, milk. No. 138,576; Jan. 4; v. 282; p. 185.
- Bech Van Siclen & Co., Inc., San Francisco, Calif. Wheat-flour. No. 143,169; May 24; v. 286; p. 851.
- Bech, Van Siclen & Co. Inc., San Francisco, Calif. Canned fruits, vegetables, fish, and milk and wheat-flour. No. 145,321; Aug. 2; v. 289; p. 177.
- Bech Van Siclen & Co., Inc., San Francisco, Calif. Wheat-flour. No. 147,710; Oct. 25.
- Bechler, André, Montier, Switzerland. Lathes and automatic lathes, &c. No. 147,923; Nov. 8.
- Beck Duplicator Company, The, New York, N. Y. Duplicating-rolls comprising a cloth base or foundation and a layer of duplicating material, as gelatin. No. 146,176; Sept. 6; v. 290; p. 197.
- Beck, Jacques, New Orleans, La. Eyeglasses and spectacles. No. 138,943; Jan. 18; v. 282; p. 553.
- Becker, Abraham S., Baltimore, Md. Bandeau-brassières. No. 140,551; Mar. 22; v. 284; p. 743.
- Beckett, David C., Cleveland, Ohio. Salve for application to tired and aching feet. No. 140,076; Mar. 8; v. 284; p. 363.
- Beckett, Laycock & Watkinson Limited, London, England. Channel-shaped metal made in lengths and adapted to be cut to size. No. 148,353; Nov. 15.
- Beckman Company, The, Cleveland, Ohio. Wool robes and shawls. No. 140,077; Mar. 8; v. 284; p. 363.
- Beckwith, Estate of P. D., Inc., Dowagiac, Mich. Hot-air and combined hot-air and hot-water heaters and furnaces. No. 149,045; Dec. 6.
- Bee Bee Confection Company, The, Dayton, Ohio. Non-alcoholic, non-cereal, maltless beverages. No. 139,484; Feb. 8; v. 283; p. 349.
- Bee Bee Confection Company, The, Dayton, Ohio. Non-alcoholic non-cereal beverage. No. 141,318; Apr. 19; v. 285; p. 565.
- Bee Bee Confection Company, Dayton, Ohio. Non-alcoholic, non-cereal beverages and syrups therefor. No. 143,285; Feb. 15; v. 286; p. 1047.



*Alphabetical list of registrants of trade-marks—Continued.*

- Bee, Dora, Memphis, Tenn. Toilet face-powder. No. 144,344; July 5; v. 288; p. 191.
- Beech-Nut Packing Company, Canajoharie, N. Y. Candies. No. 139,485; Feb. 8; v. 283; p. 349.
- Beecher-Hollins Co., Boston, Mass. Embalming fluid. No. 138,944; Jan. 18; v. 282; p. 553.
- Beede, Frank A., Orange, Vt. Medicine for the treatment of cholera, blackhead, &c., in poultry. No. 145,606; Aug. 16; v. 289; p. 591.
- Beehler, William H., Baltimore, Md. Umbrellas, parasols, and canes. No. 143,552; June 7; v. 287; p. 181.
- Beer, Alfred, Co. Inc., New York, N. Y. Shirts and blouses. No. 144,304; June 28; v. 287; p. 779.
- Beerman-Fortgang-Doman, Inc., New York, N. Y. Trimmed and tailored hats. No. 148,354; Nov. 15.
- Beich, Paul F., Co., Bloomington, Ill. Candy. No. 138,774; Jan. 11; v. 282; p. 375.
- Beiser, Edward T., Co., New York, N. Y. Liquid flower-oils, suitable for the production of perfumes. No. 139,967; Mar. 1; v. 284; p. 173.
- Beiser, Edward T., Co., New York, N. Y. Liquid essential oils and aromatic compounds suitable for the production of perfumes. No. 139,968; Mar. 1; v. 284; p. 173.
- Beiser, Edward T., Co., New York, N. Y. Fluid resins suitable for the production of perfumes. No. 140,078; Mar. 8; v. 284; p. 363.
- Beiser, Edward T., Co., New York, N. Y. Flower-oils suitable for the production of perfumes. No. 144,345; July 5; v. 288; p. 191.
- Belco Candy Co., Inc., Newark, N. J. Candy—viz., fruit tablets. No. 139,759; Feb. 22; v. 283; p. 751.
- Beldam, George W., Ealing, England. Rubber sponges. No. 148,355; Nov. 15.
- Beldam, George W., London, England. Rubber sponges. No. 149,638; Dec. 20.
- Belden Manufacturing Company, Chicago, Ill. Magnet-wires. No. 146,555; Sept. 13; v. 290; p. 421.
- Belden Manufacturing Company, Chicago, Ill. Rubber-covered electrical conductors. No. 146,556; Sept. 13; v. 290; p. 421.
- Belden Manufacturing Company, Chicago, Ill. Magnet-wires. No. 147,924; Nov. 8.
- Belden Manufacturing Company, Chicago, Ill. Magnet-wires. No. 147,927; Nov. 8.
- Belding Bros. & Co., New York, N. Y. Silk thread. No. 145,041; July 26; v. 288; p. 811.
- Belk, Ancy M., Mount Pleasant, Tenn. Dandruff preparation. No. 142,932; May 24; v. 286; p. 843.
- Bell, Adrian, Baltimore, Md. Soaps. No. 141,819; Apr. 19; v. 285; p. 565.
- Bell, Henry, Atlanta, Ga. Preparation for the treatment of disorders of the stomach and liver. No. 138,775; Jan. 11; v. 282; p. 375.
- Bell Products Co., Brooklyn, N. Y. Metal-polish. No. 145,322; Aug. 2; v. 289; p. 177.
- Bell, Samuel & Sons, Philadelphia, Pa. Wheat-flour. No. 146,176; Sept. 6; v. 290; p. 197.
- Bell Syndicate, Inc., The, New York, N. Y. Series of cartoons. No. 140,552; Mar. 22; v. 284; p. 743.
- Belle Mead Sweetmakers, The, Trenton, N. J. Candy. No. 141,491; Apr. 26; v. 285; p. 777.
- Bellevue Specialty Company, Memphis, Tenn. Medicinal and pharmaceutical preparations. No. 144,346; July 5; v. 288; p. 191.
- Bellingham Chemical Co., Bellingham, Wash. Medicinal preparation. No. 145,928; Aug. 23; v. 289; p. 787.
- Belmont Motors Corporation, Lewistown and Harrisburg, Pa. Automobiles and automobile-trucks. No. 142,357; May 10; v. 286; p. 407.
- Beltrall Tractor Company, The, St. Paul, Minn. Farm-tractors. No. 142,858; May 17; v. 286; p. 637.
- Bemis Bro. Bag Co., St. Louis, Mo. Parcel-post mailing-envelops. No. 149,343; Dec. 13.
- Benard & Begin, Waterville, Me. Veterinary medicine. No. 146,432; Sept. 6; v. 290; p. 207.
- Bencoe Exporting and Importing Co. Inc., New York, N. Y. Sheetings. No. 149,639; Dec. 20.
- Benedetti, F. & A. Vannozzi & Co., Trenton, N. J. Washing fluids. No. 147,925; Nov. 8.
- Benike, William E., Milwaukee, Wis. Liquid medicinal preparation for the treatment of eczema. No. 146,687; Sept. 20; v. 290; p. 631.
- Benjamin Electric Manufacturing Co., Chicago, Ill. Electric plug-clusters having two outlets. No. 144,347; July 5; v. 288; p. 191.
- Bennett and Aspden Company, Philadelphia, Pa. Velvets in the piece. No. 145,251; July 26; v. 288; p. 820.
- Bennett and Aspden Company, Philadelphia, Pa. Velvets in the piece. No. 147,926; Nov. 8.
- Bennett and Aspden Company, Philadelphia, Pa. Velvets in the piece. Nos. 148,356-7; Nov. 15.
- Bennett, Fred S., Inc., New York, N. Y. Cotton, drills, twills in the piece. No. 146,067; Aug. 30; v. 289; p. 1013.
- Bennett, G. E., San Francisco, Calif. Metal-polish. No. 144,697; July 19; v. 288; p. 615.
- Bennett Milling Co., The, Grafton, Ohio. Wheat-flour. No. 142,238; May 10; v. 286; p. 403.
- Bennett Milling Company, Geneva, Ill. Wheat-flour. No. 140,751; Mar. 29; v. 284; p. 942.
- Bennett, R. L., & Sons, Paris, Tex. Cotton-seed. No. 147,723; Oct. 25.
- Bennett, Ray H., Lumber Co., Inc., North Tonawanda, N. Y. Knockdown houses. No. 144,515; July 5; v. 288; p. 198.
- Bennie, Alexander, & Co., Nashville, Tenn. Pneumatic rubber tires. No. 140,326; Mar. 15; v. 284; p. 579.
- Benson, Gamble & Slaten, Chicago, Ill. Posters, cards, &c. No. 139,115; Jan. 25; v. 282; p. 733.
- Bently & Twohey Silk Company, Newton, N. J., and New York, N. Y. Silk goods in the piece. No. 146,688; Sept. 20; v. 290; p. 632.
- Benton, James T., Spokane, Wash. Carbon-remover for engine-cylinders. No. 140,750; Mar. 29; v. 284; p. 941.
- Benze, Adolph, Jr., Peoria, Ill. Noodles. No. 148,569; Nov. 15.
- Benzolene Motor Fuel Co., Chicago, Ill. Motor fuel-oil. No. 144,348; July 5; v. 288; p. 191.
- Berendsen Silk Co., Bangor, Pa. Hosiery. No. 139,924; Feb. 22; v. 283; p. 757.
- Berendsen Silk Co., Bangor, Pa. Ladies' hosiery. No. 147,838; Nov. 1.
- Berfelden Mills Inc., Plainfield, N. J., and New York, N. Y. Silk piece goods. No. 143,908; June 21; v. 287; p. 578.
- Berg Brothers, Inc., New York, N. Y. Woolen and worsted yarns. No. 142,933; May 24; v. 286; p. 843.
- Berg, David, & Co., Chicago, Ill. Sausages and other meat products. No. 147,545; Oct. 25.
- Berg, F., & Co., Orange, N. J. Hats for men. No. 142,449; May 17; v. 286; p. 624.
- Berg, Hart O., New York, N. Y. Pharmaceutical preparation. No. 141,867; May 3; v. 286; p. 182.
- Berger, Harry, New York, N. Y. Men's and boys' shirts. No. 144,698; July 19; v. 288; p. 615.
- Berger, Joe R., Cincinnati, Ohio. Mayonnaise. No. 140,079; Mar. 8; v. 284; p. 363.
- Berger Manufacturing Company, The, Canton, Ohio. Metal filing-cases, lockers, and shelving. No. 140,327; Mar. 15; v. 284; p. 579.
- Berger Manufacturing Company, The, Canton, Ohio. Rust-resisting anticorrosive iron and iron, steel, and alloy-steel metal sheets. No. 141,868; May 3; v. 286; p. 182.
- Berger Manufacturing Company, The, Canton, Ohio. Metal filing-cases, lockers, and shelving. No. 142,450; May 17; v. 286; p. 624.
- Berghoff Brewing Ass'n, Fort Wayne, Ind. Non-alcoholic cereal beverage. No. 148,358; Nov. 15.
- Bergmann Mfg. Co., Philadelphia, Pa., assignor to Columbia Steel Equipment Co. Filing-cabinets. No. 145,252; July 26; v. 288; p. 820.
- Bergougnan Rubber Corporation, Wilmington, Del., and Trenton, N. J. Rubber tires. No. 141,029; Mar. 29; v. 284; p. 951.
- Berkefeld Filter Company, New York, N. Y. Filtering apparatus and filter-cylinders. No. 142,451; May 17; v. 286; p. 624.
- Berkeley Company, Providence, R. I. Cambrics in the piece. No. 149,839; Dec. 27.
- Berkowitz, Annie, Brooklyn, N. Y. Preparation for the treatment of pulmonary diseases. No. 146,689; Sept. 20; v. 290; p. 632.
- Berkowitz Envelope Co., Kansas City, Mo. Mailing-envelops. No. 139,116; Jan. 25; v. 282; p. 733.
- Berks Knitting Company, Reading, Pa. Hosiery. No. 148,996; Dec. 6.
- Berkshire Shirt Co., New York, N. Y. Negligée shirts and pajamas. No. 142,239; May 10; v. 286; p. 403.
- Berlin, Julius, New York, N. Y. Medicinal preparation for the treatment of dyspepsia and indigestion. No. 149,840; Dec. 27.
- Berliner, Emile, Washington, D. C. Prepared cereal breakfast food. No. 145,537; Aug. 9; v. 289; p. 407.
- Berman, John, New Judson, Ind. Sugar substitute. No. 146,690; Sept. 20; v. 290; p. 632.
- Bernard, Gustave, New York, N. Y. Tooth-paste. No. 138,577; Jan. 4; v. 282; p. 185.
- Bernard, Pierre J. H., Montreal, Quebec, Canada. Electrical hot-water and steam heaters and parts therefor. No. 144,699; July 19; v. 288; p. 615.
- Berner, Joseph, New York, N. Y. Hair-tonic. No. 139,117; Jan. 25; v. 282; p. 733.
- Bernet, Craft & Kauffman Milling Company, St. Louis, Mo. Wheat-flour. No. 143,553; June 7; v. 287; p. 181.
- Bernet, Craft & Kauffman Milling Co., St. Louis, Mo. Wheat-flour. No. 144,548; July 12; v. 288; p. 423.
- Bernhard Ulmann Co., Inc., New York, N. Y. Yarns and threads. No. 143,495; May 31; v. 286; p. 1054.
- Bernhard Ulmann Co., Inc., New York, N. Y. Embroideries and notions. No. 144,076; June 21; v. 287; p. 583.
- Bernhard Ulmann Co. Inc., New York, N. Y. Art-needlework products comprising a foundation fabric. No. 145,195; July 26; v. 288; p. 816.
- Bernhard Ulmann Co. Inc., New York, N. Y. Instruction-books, and similar publications. No. 145,196; July 26; v. 288; p. 816.
- Bernhard Ulmann Co., Inc., New York, N. Y. Certain articles of clothing. No. 147,421; Oct. 11.
- Bernhard Ulmann Co., Inc., New York, N. Y. Certain instruction books for art-needlework. No. 147,422; Oct. 11.
- Bernheimer, Jacob S., & Bro., New York, N. Y. Cotton voile in the piece. No. 149,841; Dec. 27.
- Bernson, Boris, Cambridge, Mass. Men's, women's, and children's coats. No. 145,607; Aug. 16; v. 289; p. 591.



- Bernstamm, Jacques, Atlanta, Ga. Peanut-butter. No. 144,700; July 19; v. 288; p. 615.
- Bernstein, Elias, New York, N. Y. Mixed canary-seeds. No. 147,546; Oct. 25.
- Bernstein, Samuel, New York, N. Y. Ironing-wax. No. 139,118; Jan. 25; v. 282; p. 733.
- Bernstein, Samuel, New York, N. Y. Wash-blue. No. 140,080; Mar. 8; v. 284; p. 363.
- Bernstein, Samuel B., New York, N. Y. Certain articles of steel cutlery. No. 143,909; June 21; v. 287; p. 578.
- Berry, Dr. C. H., Chemical Co., Chicago, Ill. Face cream or ointment. No. 145,929; Aug. 23; v. 289; p. 787.
- Berry Demoville & Company, Nashville, Tenn. Toilet preparations. No. 140,554; Mar. 22; v. 284; p. 743.
- Berry, Herbert H., London, England. Electric air-heating apparatus, &c. No. 140,553; Mar. 22; v. 284; p. 743.
- Berry, Thomas W., Galesburg, Ill. Hair-grower. No. 143,910; June 21; v. 287; p. 578.
- Berthiaume, J. & Co., Spencer, Mass. Ginger-ale and bercola, a non-alcoholic cola beverage. No. 144,701; July 19; v. 288; p. 615.
- Besosa, Adolfo, New York, N. Y. Tonic for anemia and for upbuilding the system, in tablet form. No. 140,328; Mar. 15; v. 284; p. 579.
- Bessemer Gas Engine Company, The, Grove City, Pa. Internal-combustion engines, oil-well-pumping powers, and fluid-compressors. No. 143,911; June 21; v. 287; p. 578.
- Bessemer Gas Engine Company, The, Grove City, Pa. Internal-combustion engines, oil-well-pumping-powers, and fluid-compressors. No. 145,042; July 26; v. 288; p. 811.
- Bessire & Company, Indianapolis, Ind., and Louisville, Ky. Tables, chairs, and stools. No. 149,344; Dec. 13.
- Best, C. L., Gas Traction Company, San Leandro, Calif. Tractors. No. 140,081; Mar. 8; v. 284; p. 363.
- Best, C. L., Tractor Co., San Leandro, Calif. Tractors. No. 147,199; Oct. 4.
- Best, C. L., Tractor Co., San Leandro, Calif. Tractors. No. 148,324; Nov. 8.
- Best, Edward H., & Co., Incorporated, Portland, Me., and Boston, Mass. Felts and piece goods of wool or of mixtures of wool and cotton. No. 139,249; Feb. 1; v. 283; p. 167.
- Best, Edward H., & Co., Incorporated, Portland, Me., and Boston, Mass. Woven felts of wool or mixtures of wool and cotton and piece goods. No. 141,869; May 3; v. 286; p. 182.
- Best, Edward H., & Co., Incorporated, Portland, Me., and Boston, Mass. Woven felts and piece goods of wool or mixtures of wool and cotton. No. 143,286; May 31; v. 286; p. 1047.
- Bestvet Razor Co., Inc., Tampa, Fla. Safety-razors. No. 141,320; Apr. 19; v. 285; p. 565.
- Bethlehem Steel Company, Bethlehem, Pa. Tool-steel and armor-plate. No. 147,200; Oct. 4.
- Bethlehem Steel Company, Bethlehem, Pa. Metal-working presses. No. 148,570; Nov. 15.
- Betts Machine Company, Rochester, N. Y. Machine-tools. No. 139,486; Feb. 8; v. 283; p. 349.
- Betts Machine Company, Rochester, N. Y. Metal-working machines and tools for use in said machines. No. 140,555; Mar. 22; v. 284; p. 743.
- Betts Sole Protector Company, St. Louis, Mo. Wear-plates for shoes. No. 147,476; Oct. 18.
- Beville, Alfred S., Jacksonville, Fla. Rye bread. No. 147,477; Oct. 18.
- Beyerle, J. J., Mfg. Co., New York, N. Y. Dress-shields. Nos. 138,578-9; Jan. 4; v. 282; p. 185.
- Beyerle, J. J., Mfg. Co., New York, N. Y. Dress-shields. No. 139,250; Feb. 1; v. 283; p. 167.
- Beyerle Mfg. Co., New York, N. Y. Rubber baby-pants. Nos. 146,433-4; Sept. 6; v. 290; pp. 207-8.
- Bial, Ernst, New York, N. Y. External remedy for rheumatic, muscular, neuralgia pains. No. 140,556; Mar. 22; v. 284; p. 743.
- Bianchini, Fériér, Lyon, France. Piece goods of silk, wool, linen, cotton, and china-grass. Nos. 139,251-2; Feb. 1; v. 283; p. 167.
- Bianchini, Fériér, Lyon, France. Piece goods of silk, wool, &c. No. 141,870; May 3; v. 286; p. 182.
- Bianchini, Fériér, Lyon, France. Piece goods of silk, wool, linen, cotton, and china-grass. No. 142,538; May 17; v. 286; p. 627.
- Bianchini, Fériér, Lyon, France. Piece goods of silk, wool, linen, cotton, and china-grass. No. 144,702; July 19; v. 288; p. 615.
- Bianchini, Fériér, Lyon, France. Piece goods of silk. No. 147,928; Nov. 8.
- Bianchini, Fériér, Lyon, France. Piece goods of silk, wool, linen, cotton, &c. No. 148,790; Nov. 29.
- Bianchini, Fériér, Lyon, France. Piece goods of silk, wool, linen, cotton, and china-grass. Nos. 148,997-8; Dec. 6.
- Bible Films, Inc., Los Angeles, Calif. Moving-picture films. No. 142,934; May 24; v. 286; p. 843.
- Bickmore Company, The, Old Town, Me. Medicinal preparations for family use and live stock. No. 148,571; Nov. 15.
- Bidex, John L., Marion, N. C. Medicinal preparation for the treatment of constipation, mild stomach, liver, &c. No. 139,119; Jan. 25; v. 282; p. 733.
- Bieger, Richard J., St. Louis, Mo. Serial cartoons. No. 147,272; Oct. 11.
- Bieger, Richard J., St. Louis, Mo. Serial and single cartoons. No. 149,842; Dec. 27.
- Biery Oil Company, Franklin, Pa., and New York, N. Y. Lubricating oils and greases, gasoline, and mineral waxes, &c. No. 138,945; Jan. 18; v. 282; p. 553.
- Bigg, Thomas, Limited, London, England. Preparation for destroying parasites and for treating diseases in animals and plants. No. 144,703; July 19; v. 288; p. 615.
- Biggio, Frank & Sons, Chicago, Ill. Fresh tomatoes. No. 149,843; Dec. 27.
- Biggs, Thomas, Limited, London, England. Chemical preparations. Nos. 146,951-2; Sept. 27; v. 290; p. 803.
- Bigheart Producing & Refining Company, New York, N. Y. Petroleum products—namely, crude oil, gasoline, &c. No. 138,776; Jan. 11; v. 282; p. 375.
- Bill, Edward Lyman, Inc., New York, N. Y. Journal published monthly. No. 146,924; Sept. 29; v. 290; p. 641.
- Billin, Arthur J., & Co., Inc., New York, N. Y. Jellyed rabbit. No. 143,287; May 31; v. 286; p. 1047.
- Bills, Enoch F., Bordentown, N. J. Cranberry jelly. No. 144,549; July 12; v. 288; p. 423.
- Bilt-Rite Manufacturing Company, Worcester, Mass. Boring-drills, valve-grinders, &c. No. 139,487; Feb. 8; v. 283; p. 349.
- Bing, Lester, Philadelphia, Pa. Knitted and woven bloomers, vests, and union-suits. No. 148,359; Nov. 15.
- Bingo Mustard Co., South Bend, Ind. Mustard. No. 138,580; Jan. 4; v. 282; p. 185.
- Binkley Company, The, Oklahoma, Okla. Automobile-radiators and structural radiator parts. No. 141,084; Apr. 12; v. 285; p. 379.
- Binney & Smith Company, New York, N. Y. Paint-pigments. No. 146,177; Sept. 6; v. 290; p. 197.
- Binney & Smith Company, New York, N. Y. Gas black and carbon-black in bags. No. 147,072; Oct. 4.
- Binns Patent Band Co., Inc., Camden, N. J., and Philadelphia, Pa. Braided tubular textile mats and rugs. No. 147,073; Oct. 4.
- Bioleck, Victoria A., Colorado Springs, Colo. Medicine for deafness. No. 145,930; Aug. 23; v. 289; p. 787.
- Bird & Son, Inc., East Walpole, Mass. Felt-base floor-coverings and rug-borders. No. 143,288; May 31; v. 286; p. 1047.
- Bird & Son, Inc., East Walpole, Mass. Construction materials. No. 143,289; May 31; v. 286; p. 1047.
- Bird & Son, Inc., East Walpole, Mass. Packing cases, cartons, paper and fiber board boxes, and paper flower pots. No. 144,172; June 28; v. 287; p. 773.
- Birkholz, Joseph A., Orange, N. J. Building wall and partition panels made of concrete, &c. No. 145,698; Aug. 16; v. 289; p. 591.
- Birmingham Iron Foundry, Derby, Conn. Drop-presses and automatic drop-lifters for lifting and operating the hammers of drop-presses. No. 149,844; Dec. 27.
- Bisceglia Brothers, San Jose, Calif. Canned fruits and vegetables. No. 138,946; Jan. 18; v. 282; p. 553.
- Bischoff, Henry B., Collinsville, Ill. Non-alcoholic, non-cereal, maltless beverages and syrups for making. No. 149,349; Dec. 15.
- Bishop & Babcock Company, The, Cleveland, Ohio. Thermostats. No. 141,871; May 3; v. 286; p. 182.
- Bishop & Company, Los Angeles, Calif. Candy. No. 138,581; Jan. 4; v. 282; p. 185.
- Bishop & Company, Los Angeles, Calif. Candy. No. 139,253; Feb. 1; v. 283; p. 167.
- Bishop & Company, Los Angeles, Calif. Crackers, biscuits, cakes, and candy, &c. No. 145,323; Aug. 2; v. 289; p. 177.
- Bishop & Company, Los Angeles, Calif. Chocolate in cake form for eating purposes. No. 149,845; Dec. 27.
- Bishop Company, The, North Attleboro, Mass. Eyeglasses and spectacles and parts thereof. No. 141,321; Apr. 19; v. 285; p. 565.
- Bishop Company, The, North Attleboro, Mass. Spectacles, eyeglasses, ophthalmic mountings, and parts of same. No. 147,273; Oct. 11.
- Bissell, Irving J., Grand Rapids, Mich. Stylographic pencils and fountain-pens. No. 144,319; July 5; v. 288; p. 191.
- Bissell Carpet Sweeper Co., Grand Rapids, Mich. Toy carpet-sweeper. Nos. 148,999-149,000; Dec. 6.
- Bitoslag Paving Company, New York, N. Y. Paving material. No. 138,582; Jan. 4; v. 282; p. 185.
- Bitters, Henry G., Chicago, Ill. Pharmaceutical and toilet preparations. No. 146,953; Sept. 27; v. 290; p. 803.
- Bjor Bros. Incorporated, New York, N. Y. Pianos and player-pianos. No. 148,351; Nov. 15.
- Black Brothers, Beatrice, Nebr. Wheat-flour and corn-meal. No. 139,488; Feb. 8; v. 283; p. 349.
- Black Brothers Flour Company, Beatrice, Nebr. Pancake-flour. No. 139,489; Feb. 8; v. 283; p. 349.
- Black Cat Textiles Company (now by change of name The Allen A. Company), Kenosha, Wis. Articles of clothing. No. 140,752; Mar. 29; v. 284; p. 942.
- Black Cat Textiles Company (now by change of name The Allen A. Company), Kenosha, Wis. Men's, women's, and children's underwear and hosiery. No. 140,753; Mar. 29; v. 284; p. 942.



*Alphabetical list of registrants of trade-marks—Continued.*

- Black Cat Textiles Company, (now by change of name The Allen A Company,) Kenosha, Wis. Knit hosiery. No. 145,609; Aug. 16; v. 289; p. 591.
- Black & Decker Manufacturing Co., The, Baltimore, Md. Electrical tools. No. 141,284; Apr. 12; v. 285; p. 387.
- Black & Decker Manufacturing Co., The, Baltimore, Md. Boring-drills, screwdrivers, valve-grinders. No. 140,257; Mar. 8; v. 284; p. 369.
- Black & Decker Manufacturing Co., The, Towson Heights, Baltimore, Md. Air pumps and compressors and other certain named machinery. No. 140,698; Mar. 22; v. 284; p. 749.
- Black & Decker Manufacturing Co., The, Baltimore, Md. Portable and other machinery. No. 143,554; June 7; v. 287; p. 181.
- Blackburn, Arthur D., Cuba, Ohio. Spraying compound. No. 142,240; May 10; v. 286; p. 403.
- Blackman, Samuel, Philadelphia, Pa. Non-alcoholic fruit punches, ginger-ale, and root-beer. No. 138,583; Jan. 4; v. 282; p. 185.
- Blackman, Samuel, Philadelphia, Pa. Non-alcoholic, maltless beverages. No. 143,290; May 31; v. 286; p. 1047.
- Blackman Stock Remedy Co., Chattanooga, Tenn. Medicated salt brick for live stock. No. 149,001; Dec. 6.
- Blackman Talking Machine Co., Inc., New York, N. Y. Talking-machine needles. No. 141,492; Apr. 26; v. 285; p. 777.
- Blackstaff Flax Spinning & Weaving Co. Ltd., The, Belfast, Ireland. Threads of flax, hemp, &c. No. 144,350; July 5; v. 288; p. 191.
- Blackstaff Flax Spinning & Weaving Company, Limited, The, Belfast, Ireland. Threads of flax, hemp, tow, and ramie or china-grass. No. 145,043; July 26; v. 288; p. 811.
- Blackstaff Flax Spg. & Wvg. Co. Ltd., The, Belfast, Ireland. Threads of flax, hemp, tow, and ramie. No. 147,930; Nov. 8.
- Blackstone, Alex., Newark, N. J. Chocolate laxative tablet. No. 147,548; Oct. 25.
- Blackstone Manufacturing Co., Newark, N. J. Cough syrup, witch-hazel, camphorated oil, pure glycerin. No. 146,178; Sept. 6; v. 290; p. 197.
- Blaetius Candy Co., Inc., Pittsburgh, Pa. Candy. No. 142,935; May 24; v. 286; p. 843.
- Blair, J. C., Company, Huntingdon, Pa. Paper pads, tablets, and blank books. No. 139,761; Feb. 22; v. 283; p. 751.
- Blair, J. C., Company, Huntingdon, Pa. Paper and paper tablets, envelopes, blank books. No. 141,085-7; Apr. 12; v. 285; p. 379.
- Blair, J. C., Company, Huntingdon, Pa. Paper for writing and printing purposes, envelopes, tablets, and blank books. No. 142,452; May 17; v. 286; p. 624.
- Blair Milling Co., The, Atchison, Kans. Wheat-flour. No. 139,064; Jan. 18; v. 282; p. 567.
- Blair Milling Co., The, Atchison, Kans. Wheat-flour. No. 145,497; Aug. 2; v. 289; p. 183.
- Blake & Amber, San Francisco, Calif. Printed publications. No. 147,929; Nov. 8.
- Blake, Mrs. Elizabeth V. W., Wilmington, Del. Hair tonic, grower, and gloss, scalp-balm, face-cream, talcum powder, skin-balm. No. 145,044; July 26; v. 288; p. 811.
- Blake, McFall Company, Portland, Oreg. Paper bags. No. 149,345; Dec. 13.
- Blakeslee, Talbert W., Erie, Pa. Antiseptic. No. 140,754; Mar. 29; v. 284; p. 942.
- Blakeslee, Talbert W., Erie, Pa. Liniment used externally for the relief of pain. No. 141,322; Apr. 19; v. 285; p. 565.
- Blamberg Brothers, Inc., Baltimore, Md. Poultry, pigeon, and stock feed. No. 144,654; July 12; v. 288; p. 427.
- Blanco, Jose M., New York, N. Y. Toilet preparations. No. 145,610; Aug. 16; v. 289; p. 591.
- Bland, Frank G., Clarksburg, W. Va. Mouth-wash. No. 141,872; May 3; v. 286; p. 182.
- Blanke, C. F., Tea & Coffee Co., St. Louis, Mo. Candy confection flavored with coffee. No. 139,490; Feb. 8; v. 283; p. 349.
- Blanke, C. F., Tea and Coffee Co., St. Louis, Mo. Candy. No. 140,329; Mar. 15; v. 284; p. 579.
- Blanke, C. F., Tea & Coffee Company, St. Louis, Mo. Confection flavored with tea. No. 140,557; Mar. 22; v. 284; p. 743.
- Blanke, C. F., Sales Company, St. Louis, Mo. Prepared biscuit, cake, &c., flours. No. 148,791; Nov. 29.
- Blatz, Val., Jr., Candy Co., Milwaukee, Wis. Candy. No. 142,489; May 17; v. 286; p. 625.
- Blatz, Val., Jr., Candy Co., Milwaukee, Wis. Candy. No. 143,555; June 7; v. 287; p. 181.
- Blatz, Val., Brewing Company, Milwaukee, Wis. Certain beverages, malt extracts. No. 145,611; Aug. 16; v. 289; p. 591.
- Blatz, Val., Brewing Company, Milwaukee, Wis. Certain beverages, malt extracts, near beer, &c. No. 145,846; Aug. 16; v. 289; p. 599.
- Blaw-Knox Company, Pittsburgh, Pa. Clam-shell buckets, holding-drums, &c., for conveying machinery. No. 140,027; Mar. 1; v. 284; p. 175.
- Blaw-Knox Company, Pittsburgh, Pa. Metallic transmission-towers, steel forms for concrete construction, &c. No. 140,258; Mar. 8; v. 284; p. 370.
- Blaw-Knox Company, Pittsburgh, Pa. Metallic transmission-towers, steel forms, &c. Nos. 142,241-2; May 10; v. 286; p. 403.
- Blaw-Knox Company, Pittsburgh, Pa. Machinery and water-cooled equipment for furnaces. No. 143,912; June 21; v. 287; p. 578.
- Bleadon-Dun Company, Chicago, Ill. Electromedical apparatus comprising high-frequency and violet-ray equipments, &c. No. 144,173; June 28; v. 287; p. 773.
- Blechman, S., & Sons, Inc., New York, N. Y. Hair-nets. No. 149,846; Dec. 27.
- Blendinol Co., The, Worcester, Mass. Certain toilet preparations, perfumes, tooth-paste, &c. No. 145,612; Aug. 16; v. 289; p. 591.
- Blickman, Sophia, New York, N. Y. Aluminum cooking utensils. No. 141,323; Apr. 19; v. 285; p. 565.
- Bliss, E. W., Company, Brooklyn, N. Y. Forming and shaping, cutting, trimming, and bending presses, &c. No. 149,847; Dec. 27.
- Bliss, Fabyan & Company, New York, N. Y. Cotton piece goods. No. 140,558; Mar. 22; v. 284; p. 743.
- Bliss, John W., Philadelphia, Pa. Cough-drops. No. 139,491; Feb. 8; v. 283; p. 349.
- Bliss Syrup Refining Co., Kansas City, Mo. Table-syrup composed of corn and cane-sugar. No. 142,453; May 17; v. 286; p. 624.
- Bliss, Wm. B., Jr., & Co., New York, N. Y. Elastics. No. 147,751; Nov. 1.
- Bloch Go-Cart Company, Philadelphia, Pa. Baby-carriages. No. 146,692; Sept. 20; v. 290; p. 632.
- Bloch, Isabelle M., Seattle, Wash. Piano-player rolls. No. 147,550; Oct. 25.
- Block, Alexander E., St. Louis, Mo. Flexible non-metallic supports of leather or like material. No. 146,691; Sept. 20; v. 290; p. 632.
- Block, Alexander E., St. Louis, Mo. Flexible supports of leather or like non-metallic material for the sole of the foot. No. 147,448; Oct. 18.
- Blodgett, G. S., Company, Inc., The, Burlington, Vt. Bake-ovens. Nos. 149,640-1; Dec. 20.
- Blogg & Littauer, New York, N. Y. Cloaks, suits, and evening-wraps for women. No. 142,859; May 17; v. 286; p. 638.
- Bloom, Charles, Inc., New York, N. Y. Dolls and doll-dress outfits. No. 144,550; July 12; v. 288; p. 423.
- Bloom and Horner, New York, N. Y. Men's summer clothing. No. 144,351; July 5; v. 288; p. 191.
- Bloom Textile Co. Inc., The, New York, N. Y. Piece goods. No. 140,082; Mar. 8; v. 284; p. 363.
- Bloomenfeld Trunk Co. Inc., The, New York, N. Y. Trunks. No. 142,454; May 17; v. 286; p. 624.
- Bloomstein, Max, Nashville, Tenn. Shoe-shining machines. No. 140,755; Mar. 29; v. 284; p. 942.
- Blue Bell Peanut Butter Company, Grand Rapids, Mich. Peanut-butter. No. 147,931; Nov. 8.
- Blue Bird Manufacturing Company, St. Louis, Mo., assignor to Davis Sewing Machine Company, Dayton, Ohio. Electric suction-cleaners, sadirons, fans, &c. No. 144,551; July 12; v. 288; p. 423.
- Blue Buckle Cotton Mills, Inc., Rock Hill, S. C. Bed-ticking. Nos. 139,762-6; Feb. 22; v. 283; p. 751.
- Blue Buckle Cotton Mills, Inc., Rock Hill, S. C. Bed-ticking. No. 141,329; Apr. 19; v. 285; p. 565.
- Blue Buckle Cotton Mills, Inc., Rock Hill, S. C. Bed-ticking. No. 145,498; Aug. 2; v. 289; p. 183.
- Blue John, Laurinburg, N. C. Fertilizer-distributor. No. 149,848; Dec. 27.
- Blue Ribbon Candy Co., Baltimore, Md. Candy. No. 142,936; May 24; v. 286; p. 843.
- Bluff City Shoe Company, The, Hannibal, Mo. Shoes of leather, rubber, &c. No. 142,937; May 24; v. 286; p. 844.
- Bluffton Slaw Cutter Co., Bluffton, Ohio. Slaw-cutters. No. 147,478; Oct. 18.
- Blum & Bergeron, Houma, La. Dried shrimp. No. 140,559; Mar. 22; v. 284; p. 743.
- Blumauer-Frank Drug Company, Portland, Oreg. Olive-oil. No. 141,493; Apr. 26; v. 285; p. 777.
- Blum's Incorporated, Baltimore, Md. Aluminum cooking utensils and household goods. No. 139,492; Feb. 8; v. 283; p. 349.
- Blunden-Lyon Company, The, Chicago, Ill. Printing-paper. No. 149,642; Dec. 20.
- Blyn, L., & Sons, Inc., New York, N. Y. Shoes. No. 138,777; Jan. 11; v. 282; p. 375.
- Blythe Tea Company, The, Cincinnati, Ohio. Teas and coffees. No. 141,873; May 3; v. 286; p. 182.
- Boal's Rolls Corporation, New York, N. Y. Medicated fruit usable as a laxative and purgative. No. 138,778; Jan. 11; v. 282; p. 375.
- Boal's Rolls Corporation, New York, N. Y. Medicated fruit usable as a laxative and purgative. No. 139,120; Jan. 25; v. 282; p. 783.
- Bob & Baskind, New York, N. Y. Men's flannel, work, and dress shirts. No. 146,179; Sept. 6; v. 290; p. 197.
- Bob-Betty Belongings, Carlsbad, Calif. Toys. No. 146,068; Aug. 30; v. 289; p. 1013.
- Bohe, Inc., New York, N. Y. Gowns, ladies' suits, wraps, blouses, hats, scarfs, &c. No. 147,549; Oct. 25.



- Bock Bearing Company, The, Toledo, Ohio. Roller-bearings. No. 144,100; June 21; v. 287; p. 585.
- Bodek & Entlich, New York, N. Y. Hosiery and underwear for men, women, and children. No. 140,560; Mar. 22; v. 284; p. 743.
- Bodendick, Melvina, Kansas City, Mo. Medicine for hog-cholera. No. 148,362; Nov. 15.
- Boericke & Runyon Co., San Francisco and Oakland, Calif. Home medicines for diseases of the kidneys and bladder. No. 145,931; Aug. 23; v. 289; p. 787.
- Boericke & Tafel, Philadelphia, Pa. Certain medicinal preparations. No. 147,932; Nov. 8.
- Boesch, Theodore K., Philadelphia, Pa. Mosquito-repelling toilet powder. No. 138,779; Jan. 11; v. 282; p. 375.
- Boetger, Max R., Davenport, Iowa. Whole-wheat and Graham flours, ryemeal, &c. No. 141,494; Apr. 26; v. 285; p. 777.
- Bogeke, Tony F., East Millinocket, Me. Medicine for the relief of sufferers from cold and consumption. No. 147,752; Nov. 1.
- Bogen, Louis, New York, N. Y. Children's, misses', and women's dresses, suits, and coats. No. 143,556; June 7; v. 287; p. 182.
- Bohme, Henry, & Sons, Inc., New York, N. Y. Leaf-tobacco. No. 142,563; May 17; v. 286; p. 628.
- Boker, H., & Co. Inc., New York, N. Y. Saws. No. 141,874; May 3; v. 286; p. 182.
- Boker, H., & Co. Inc., New York, N. Y. Nickel and nickel-alloy clad steel sheets. No. 147,274; Oct. 11.
- Bolgiano, J., and Son, Baltimore, Md. Field and garden seeds. No. 138,753; Jan. 4; v. 282; p. 191.
- Bon I. Look Stores Company, The, Denver, Colo. Ready-mixed paints. No. 140,005; Mar. 1; v. 284; p. 174.
- Bon I. Look Stores Company, The, Denver, Colo. Ready-mixed paints. No. 140,165; Mar. 8; v. 284; p. 366.
- Bon I. Look Stores Company, The, Denver, Colo. Foods. No. 141,495; Apr. 26; v. 285; p. 778.
- Bon I. Look Stores Company, The, Denver, Colo. Canned fruits, vegetables, fish, &c. No. 144,429; July 5; v. 288; p. 194.
- Bonaz, Auguste, Paris, France. Combs, hairpins, clasps, and hair ornaments made of tortoise-shell, bone, or ivory. No. 147,753; Nov. 1.
- Bond, W. B., & Co., Newark, N. J. General tonic. No. 146,954; Sept. 27; v. 290; p. 803.
- Bonkowski, Vincent V., Detroit, Mich. Laxative wafers. No. 139,254; Feb. 1; v. 283; p. 167.
- Bonn, M., Company, Pittsburgh, Pa. Finger-rings, brooches, bar-pins, &c. No. 139,121; Jan. 25; v. 282; p. 733.
- Bonnie-B Company, Inc., The, New York, N. Y. Hair-nets. No. 147,754; Nov. 1.
- Bonnie-B Company, Inc., The, New York, N. Y. Powder-puffs. No. 149,002; Dec. 6.
- Bono Products Corporation, New York, N. Y. Insecticide, disinfectant, and deodorizer. No. 145,932; Aug. 23; v. 289; p. 787.
- Bonovin, Limited, Liverpool, England. Extract of meat. No. 144,177; June 28; v. 287; p. 773.
- Boon, J. A., Gary, Ind. Liniment for use in the treatment of rheumatism. No. 146,180; Sept. 6; v. 290; p. 198.
- Boorman, Kitchell M., New York, N. Y. Perfumes and face-powders. No. 146,955; Sept. 27; v. 290; p. 803.
- Boorne, William H., London, England. Welding-rods of ordinary metal for welding purposes. No. 140,756; Mar. 29; v. 284; p. 942.
- Booth Brothers (Dial Foundry) Limited, Stourbridge, England. Heel and toe plates for boots and shoes. No. 147,551; Oct. 25.
- Booth Fisheries Sardine Co., Eastport, Me. Canned sardines. No. 138,947; Jan. 18; v. 282; p. 553.
- Booth Fisheries Sardine Company, Chicago, Ill. Canned sardines. No. 142,938; May 24; v. 286; p. 844.
- Booth Fisheries Sardine Company, Chicago, Ill. Canned sardines. No. 145,324; Aug. 2; v. 289; p. 177.
- Boothe, Joseph W., Portsmouth, Ohio. Liniments. No. 143,913; June 21; v. 287; p. 578.
- Boott Mills, Lowell, Mass. Blue drillings in the piece. No. 139,767; Feb. 22; v. 283; p. 751.
- Boott Mills, Lowell, Mass. Toweling. No. 141,496; Apr. 26; v. 285; p. 778.
- Booty, Stanley S., London, England. Boxes for toilet preparations. No. 138,584; Jan. 4; v. 282; p. 185.
- Borden Company, The, New York, N. Y. Condensed milk. No. 140,330; Mar. 15; v. 284; p. 579.
- Borden Company, The, New York, N. Y. Confectionery—namely, chocolate coatings. No. 144,352; July 5; v. 288; p. 191.
- Borden Company, The, Warren, Ohio. Diestocks, hand pipe-cutters, and parts thereof, &c. No. 148,363; Nov. 15.
- Borgenicht, Louis, New York, N. Y. Children's dresses. No. 140,757; Mar. 29; v. 284; p. 942.
- Borger, Samuel, New York, N. Y. Ladies', children's, and infants' dresses and skirts. No. 143,557; June 7; v. 287; p. 182.
- Borget, Leo A., San Francisco, Calif. Medicine for treatment of nervous system. No. 148,637; Nov. 22.
- Borgfeldt, George, & Co., New York, N. Y. Canned solid alcohol. No. 139,768; Feb. 22; v. 283; p. 751.
- Borgfeldt, George, & Co., New York, N. Y. Glassware—namely, plates, mugs, bottles. No. 140,083; Mar. 8; v. 284; p. 363.
- Borgfeldt, George, & Co., New York, N. Y. Glossing compound for eyebrows, eyelashes, mustache, and beard. No. 143,358; May 31; v. 286; p. 1049.
- Borgfeldt, Geo. & Co., New York, N. Y. Toilet preparations. No. 143,558; June 7; v. 287; p. 182.
- Borgfeldt, George, & Co., New York, N. Y. Felt bootees and slippers. No. 144,704; July 19; v. 288; p. 615.
- Borgfeldt, George, & Co., New York, N. Y. Hosiery. No. 145,045; July 26; v. 288; p. 811.
- Borgfeldt, George, & Co., New York, N. Y. Articles of clothing. No. 145,538; Aug. 9; v. 289; p. 407.
- Borgfeldt, George, & Co., New York, N. Y. Dolls. No. 148,792; Nov. 29.
- Borgfeldt, George, & Co., New York, N. Y. Bisque-headed dolls. No. 149,849; Dec. 27.
- Borgfeldt, George, & Co., New York, N. Y. Textile rugs. No. 149,003; Dec. 6.
- Bornstein, Esther L., Cambridge, Mass. Three-piece playsuits, blouses, bloomers, and skirts. No. 147,933; Nov. 8.
- Bornstein, M., & Sons, Paterson, N. J. Silk shirtings in the piece. No. 146,181; Sept. 6; v. 290; p. 198.
- Bornstein, M., & Sons, Paterson, N. J. Silk shirtings in the piece. Nos. 146,557-8; Sept. 13; v. 290; p. 421.
- Borsum Bros., New York, N. Y., and Jersey City, N. J. Metal-polish. No. 140,561; Mar. 22; v. 284; p. 743.
- Bosak Manufacturing Co., Scranton, Pa. Reconstructive tonic. No. 146,182; Sept. 6; v. 290; p. 198.
- Bosisto, J., & Co. Proprietary Limited, Melbourne, Victoria, Australia. Eucalyptus-oil. No. 145,613; Aug. 16; v. 289; p. 591.
- Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Gloves and mittens. Nos. 140,562-7; Mar. 22; v. 284; p. 743.
- Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Fabric gloves and mittens. Nos. 141,875-6; May 3; v. 286; p. 182.
- Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Gloves and mittens. Nos. 142,939-44; May 24; v. 286; p. 844.
- Boston Belting Corporation, Boston, Mass. Mechanical rubber goods. No. 149,643; Dec. 20.
- Boston Blacking Company, Portland, Me., and East Cambridge, Mass. Straw-hat dye. Nos. 146,693-4; Sept. 20; v. 290; p. 632.
- Boston Confectionery Company, Cambridge, Mass. Confectionery—namely, chocolates. No. 140,084; Mar. 8; v. 284; p. 363.
- Boston Confectionery Company, Cambridge, Mass. Confectionery—namely, chocolates. Nos. 140,331-2; Mar. 15; v. 284; p. 579.
- Boston Confectionery Company, Cambridge, Mass. Chocolates. No. 145,933; Aug. 23; v. 289; p. 787.
- Boston Knitting Mills, The, Boston, Mass. Infants' underwear of knitted material. No. 143,914; June 21; v. 287; p. 578.
- Boston Manufacturing Company 1901, The, Waltham, Mass. Gingham. No. 140,568; Mar. 22; v. 284; p. 743.
- Boston Manufacturing Company 1901, The, Waltham, Mass. Gingham in the piece. No. 140,569; Mar. 22; v. 284; p. 743.
- Boston Manufacturing Company, 1901, The, Waltham, Mass. Gingham piece goods. No. 146,695; Sept. 20; v. 290; p. 632.
- Boston Music Co., The, Boston, Mass. Sheet-music. No. 143,291; May 31; v. 286; p. 1047.
- Boston Varnish Company, Everett, Mass. Enamel for coating wood or metal. No. 141,324; Apr. 19; v. 285; p. 565.
- Botanical Manufacturing Co., Philadelphia, Pa. Metal-polish. No. 139,769; Feb. 22; v. 283; p. 751.
- Bourn Rubber Co., Providence, R. I. Rubber boots and shoes. No. 144,989; July 19; v. 288; p. 626.
- Boutselis, James, Collinsville, Mass. Preparations. No. 147,935; Nov. 8.
- Bowden, J. B., & Company, New York, N. Y. Finger-rings of all kinds. No. 147,552; Oct. 25.
- Bowell, Russell J., Elyria, Ohio. Hot and cold water bags and bags for ice-packs. No. 142,455; May 17; v. 286; p. 624.
- Bowen Products Corporation, Auburn, N. Y. Oil and grease-cups. No. 145,325; Aug. 2; v. 289; p. 177.
- Bowman, Walter M., Cincinnati, Ohio. Medicinal salve for the treatment of piles. No. 144,552; July 12; v. 288; p. 423.
- Bowne, Emma R., San Francisco, Calif. Laundry and cleaning powder. No. 144,358; July 5; v. 288; p. 191.
- Bownes, Frank, Company Inc., Lynn, Mass. Dry, ready-mixed, and paste paints. No. 149,850; Dec. 27.
- Bows Moccasin Company, Avon, Mass. Moccasins. No. 143,292; May 31; v. 286; p. 1047.
- Boyce, Sidney S., Saginaw, Mich. Textile fibers. No. 143,321; May 31; v. 286; p. 1048.
- Boyd-Haynes Corporation, Detroit, Mich. Toilet preparations. No. 141,088; Apr. 12; v. 285; p. 379.
- Boyd, John S., Company, Inc., Williamstown, Mass. Cotton pile cloth in the piece. No. 144,705; July 19; v. 288; p. 616.



*Alphabetical list of registrants of trade-marks—Continued.*

- Boyd, L. R., Los Angeles, Calif. Moth-preventive compound. No. 139,969; Mar. 1; v. 284; p. 175.
- Boyd-MacDonald Company, The, New York, N. Y. Watch-crystals. No. 147,755; Nov. 1.
- Boyd Manufacturing Company, Inc., The, Birmingham, Ala. Face-creams, talcum powders, &c. No. 138,948; Jan. 18; v. 282; p. 553.
- Boyd Manufacturing Company, Inc., The, Birmingham, Ala. Pomade for the hair. No. 140,758; Mar. 29; v. 284; p. 942.
- Boyle, A. S., Cincinnati, Ohio. Floor-polish. No. 144,101; June 21; v. 287; p. 585.
- Boyle Manufacturing Company. Receptacles and mountings for same. No. 145,499; Aug. 2; v. 289; p. 183.
- Boyshform Brassiere Co., New York, N. Y. Brassières. No. 138,754; Jan. 4; v. 282; p. 191.
- Boyshform Brassiere Co., The, New York, N. Y. Brassières. No. 147,553; Oct. 25.
- Boyst, Charles H., Greensboro, N. C. Candy. No. 147,201; Oct. 4.
- Brach, E. J., and Sons, Chicago, Ill. Candy. No. 146,956; Sept. 27; v. 290; p. 803.
- Brach, Jacques, Paris, France. Perfumes, toilet waters and lotions, pomades, &c. No. 142,945; May 24; v. 286; p. 844.
- Bradas & Gheens, Louisville, Ky. Chocolates. No. 145,614; Aug. 16; v. 289; p. 591.
- Bradley, E. L. Co., New York, N. Y. Crape, chiffon, waist-lining, cotton, silk, &c., in the piece. No. 140,570; Mar. 22; v. 284; p. 744.
- Bradley Pulverizer Co., Boston, Mass. Grinding and pulverizing mills. No. 149,756; Dec. 20.
- Bradshaw, Edward D., New York, N. Y. Popping corn. No. 149,346; Dec. 13.
- Bradshaw, Reginald D., Payette, Idaho. Comb and extracted honey. No. 146,696; Sept. 20; v. 290; p. 632.
- Bradt & Beebe, San Francisco, Calif. Canned fruit and vegetables. No. 143,559; June 7; v. 287; p. 182.
- Braender Rubber & Tire Co., Rutherford, N. J. Tires, tubes, outer casings. No. 145,046; July 26; v. 288; p. 811.
- Bragdon, Lord & Nagle Co., The, New York, N. Y., and Boston, Mass. Weekly publication. No. 140,333; Mar. 15; v. 284; p. 579.
- Brager Bros., New York, N. Y. Garment-hangers. No. 149,851; Dec. 27.
- Braid, William, & Company, Vancouver, British Columbia, Canada. Tea. No. 144,353; July 5; v. 288; p. 191.
- Brainerd & Armstrong Company, The, New London, Conn. Fabrics in the piece. No. 145,047; July 26; v. 288; p. 811.
- Brame Drug Company, Inc., Northwilkeshoro, N. C. Medicinal preparations. No. 141,734; Apr. 26; v. 285; p. 786.
- Bramlette, Ruth M., Indianapolis, Ind. Pharmaceutical preparations. No. 144,988; July 19; v. 288; p. 625.
- Branch, Judson B., Coldwater, Mich. Boys' wash-suits, rompers, and middy-blouses for boys and girls. No. 139,708; Feb. 15; v. 283; p. 541.
- Brandenstein, M. J., & Co., San Francisco, Calif., and New York, N. Y. Tea. Nos. 138,949-51; Jan. 18; v. 282; p. 553.
- Brandmeir-Rounds Lumber Co., Seattle, Wash. Lumber, shingles, laths. Nos. 149,350-1; Dec. 13.
- Brandt, Jos., & Bro., New York, N. Y. Mit made of fabric or strands of flexible material and metal used for cleaning and scraping. No. 144,706; July 19; v. 288; p. 616.
- Brandt, Joseph, New York, N. Y. Hatpins. No. 147,936; Nov. 8.
- Brandt Manufacturing Company, Watertown, Wis. Coin-paying machine. No. 141,877; May 3; v. 286; p. 182.
- Brangesta Company, The, Sacramento, Calif. Wheat-bran cereal. No. 141,497; Apr. 26; v. 285; p. 778.
- Branigan, Green & Co., Baltimore, Md. Articles of clothing. No. 148,364; Nov. 15.
- Brauer Bros. Shoe Company, St. Louis, Mo. Shoes of leather, cloth, or canvas. No. 144,707; July 19; v. 288; p. 616.
- Brauer & Kreidt, Norlina, N. C. Liquid-fuel intensifier. No. 138,985; Jan. 18; v. 282; p. 554.
- Braun, Geo. P., Company, Chicago, Ill. Oleomargarin. No. 148,325; Nov. 8.
- Braun, John, & Sons, assignor to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Lawn-mowers. No. 140,334; Mar. 15; v. 284; p. 579.
- Braun, Philip N. (See Prosperity Company, Inc., The, assignor.)
- Brave, Louis, New York, N. Y. Dentifrice. No. 149,304; Dec. 6.
- Bray, R. A., Big Timber, Mont. Honey. No. 141,325; Apr. 19; v. 285; p. 565.
- Bray & Stanley, Beverly, Mass. Boots and shoes of leather, canvas, and felt. No. 147,554; Oct. 25.
- Bre Manufacturing Company, Boston, Mass. Bath-room fittings. No. 144,354; July 5; v. 288; p. 191.
- Bre Manufacturing Company, Boston, Mass. Bath-room fittings. No. 146,183; Sept. 6; v. 290; p. 198.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. Breakfast food. No. 139,493; Feb. 8; v. 283; p. 349.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. Cereal breakfast food. Nos. 142,456-7; May 17; v. 286; p. 624.
- Brecht Candy Co., The, Denver, Colo. Candies. No. 145,539; Aug. 9; v. 289; p. 407.
- Brecht Candy Company, The, Denver, Colo. Chocolate candies. No. 143,293; May 31; v. 286; p. 1047.
- Brelstord, Edward C., Wilkes-Barre, Pa. Certain pharmaceutical preparations. No. 145,615; Aug. 16; v. 289; p. 591.
- Brendel, William J., Catonsville, Md. Non-alcoholic beverages, syrups for making same, and spring-water. No. 147,756; Nov. 1.
- Brendlinger Company, Pittsburgh, Pa. Extracts and flavorings for food purposes. No. 148,365; Nov. 15.
- Breninger, Dayton C., Massillon, Ohio. Printed volumes of poetry. No. 140,571; Mar. 22; v. 284; p. 744.
- Brenner, J. E., & Co., New York, N. Y. Cotton piece goods. No. 143,788; June 7; v. 287; p. 189.
- Brentano's, New York, N. Y. Mail-order sheets. No. 146,184; Sept. 6; v. 290; p. 198.
- Bresee, Bert E., Herkimer, N. Y. Felt shoes and slippers. No. 149,004; Dec. 6.
- Breslauer Brothers & Bernstein, Inc., New York, N. Y. Hair-nets. No. 149,352; Dec. 13.
- Bretch, Sam, Wholesale Specialties, Oklahoma, Okla. Automobile-tires of rubber and cloth fabric composition, &c. No. 149,495; Dec. 13.
- Bretch, Sam, Wholesale Specialties, Oklahoma, Okla. Rubber inner tubes for automobile-tires. No. 149,496; Dec. 13.
- Bretz, Alfred A., Columbia, S. C. Salve or ointment for treatment of bruises, sore lips, chapping, &c. No. 144,178; June 28; v. 287; p. 773.
- Breuchaud, Jules, Olive Bridge, N. Y. Live cattle, calves, swine, goats, sheep, butter, and milk. No. 147,937; Nov. 8.
- Brevard Tannin Company, Pisgah Forest, N. C. Tannin extracts of various kinds. No. 140,086; Mar. 8; v. 284; p. 363.
- Brewer, Robert W. A., Dayton, Ohio. Manifolds for internal-combustion engines. No. 140,335; Mar. 15; v. 284; p. 579.
- Brewer, Walter R., Chicago, Ill. Mechanical spark-plug cleaners. No. 147,555; Oct. 25.
- Breyer Ice Cream Company, Philadelphia, Pa. Ice-cream. No. 144,355; July 5; v. 288; p. 191.
- Breyer Ice Cream Company, Philadelphia, Pa. Ice-cream. No. 144,708; July 19; v. 288; p. 616.
- Breyer Ice Cream Company, Philadelphia, Pa. Ice-cream. No. 145,616; Aug. 16; v. 289; p. 591.
- Brezal, Inc., New York, N. Y. Preparation to drive away mosquitos and other insects. No. 140,085; Mar. 8; v. 284; p. 363.
- Briacea Drug Co., Kansas City, Mo. General tonic. No. 141,326; Apr. 19; v. 285; p. 565.
- Bridgeport Brass Company, Bridgeport, Conn. Tire-pumps. No. 147,757; Nov. 1.
- Bridgeport Coach Lace Co., Bridgeport, Conn. Textile fabrics. No. 140,028; Mar. 1; v. 284; p. 175.
- Bridgeport Coach Lace Co., The, Bridgeport, Conn. Coach and furniture fabric piece goods. No. 145,048; July 26; v. 288; p. 811.
- Bridgeport Coach Lace Co., The, Bridgeport, Conn. Manufactured leather for vehicle-tops. No. 146,559; Sept. 13; v. 290; p. 421.
- Bridgeport Coach Lace Co., The, Bridgeport, Conn. Imitation leather. No. 147,839; Nov. 1.
- Briggs, J., & Sons Co., Providence, R. I. Certain non-ferrous metals. No. 146,185; Sept. 6; v. 290; p. 198.
- Briggs & Stratton Company, Milwaukee, Wis. Detachable hydrocarbon-motor wheels for bicycles, &c. No. 140,259; Mar. 8; v. 284; p. 370.
- Briggs, William A., Philadelphia, Pa. Paint enamel. No. 142,946; May 24; v. 286; p. 844.
- Brightlight Mantle Corporation, New York, N. Y. Incandescent mantles. No. 140,336; Mar. 15; v. 284; p. 579.
- Brill, J. G., Company, The, Philadelphia, Pa. Street-cars. No. 142,358; May 10; v. 286; p. 407.
- Brill, J. G., Company, The, Philadelphia, Pa. House organ published monthly. No. 147,938; Nov. 8.
- Brilliant Search Light Mfg. Co., Chicago, Ill. Detachable vehicle searchlights or spotlights. No. 142,188; May 3; v. 286; p. 193.
- Brillo Manufacturing Company, New York, N. Y. Soaps, Cleaning, scouring, and polishing wads, pads, rolls, &c. No. 141,498; Apr. 26; v. 285; p. 778.
- Brillo Manufacturing Company, New York, N. Y. Cleaning, scouring, and polishing wads, pads, rolls, and cloths. No. 141,499; Apr. 26; v. 285; p. 778.
- Brillo Manufacturing Company, New York, N. Y. Cleaning, scouring, and polishing wads, pads, rolls, and cloth of abradant nature. No. 142,947; May 24; v. 286; p. 844.
- Briscoe Devices Company, assignor to Briscoe Devices Corporation, Pontiac, Mich. Carbureters. No. 141,878; May 3; v. 286; p. 182.
- Briscoe Devices Corporation. (See Briscoe Devices Company, assignor.)
- Bristol-Myers Company, Brooklyn, N. Y. Remedy for coughs and colds and a general tonic. No. 142,948; May 24; v. 286; p. 844.



- Bristol-Myers Company, Brooklyn, N. Y. Tooth-paste. No. 143,560; June 7; v. 287; p. 182.
- Bristow, W. Herndon, Ripley, Ohio. Headache-powders, cough remedy, &c. No. 140,759; Mar. 29; v. 284; p. 942.
- Brittain, John Hart, Inc., New York, N. Y. Hair-tonic for treatment of diseases of the hair and scalp. No. 147,074; Oct. 4.
- Brizman, Herman W., Cleveland, Ohio. Hair-tonic, perfume, toilet water, talcum, rouge, &c. No. 146,186; Sept. 6; v. 290; p. 198.
- Broadway Cycle Co. Inc., Philadelphia, Pa. Bicycles, tricycles, &c., and parts thereof, not including tires. No. 141,327; Apr. 19; v. 285; p. 565.
- Broadway Cycle Co., Inc., Philadelphia, Pa. Bicycles, tricycles, velocipedes, &c. No. 145,617; Aug. 16; v. 289; p. 592.
- Brock, George R., Oklahoma, Okla. Paint enamel for automobiles. No. 140,572; Mar. 22; v. 284; p. 744.
- Brock, Martin, and August B. Praetsch, Jamaica Plain, Mass. Non-alcoholic, non-cereal, maltless beverage. No. 149,852; Dec. 27.
- Brockton Moccasin Co. Inc., Brockton, Mass. Moccasins. No. 145,618; Aug. 16; v. 289; p. 592.
- Broder, Harry, New York, N. Y. Ribbon novelties. No. 138,585; Jan. 4; v. 282; p. 186.
- Broder, Harry, New York, N. Y. Cotton textile fabrics. No. 139,255; Feb. 1; v. 283; p. 167.
- Brodhead, Jane H., Akron, Ohio. Salve for the treatment of boils and carbuncles. No. 149,853; Dec. 27.
- Brody, Maurice, Roxbury, Mass. Pills for liver ailments. No. 140,760; Mar. 29; v. 284; p. 942.
- Brody, Maurice, Roxbury and Boston, Mass. Medicinal tablets for stomach ails. No. 141,879; May 3; v. 286; p. 183.
- Bromm, L., Baking Co., The, Richmond, Va. Bakery products. No. 139,256; Feb. 1; v. 283; p. 167.
- Bromo Products Company, Berwick, N. D. Pharmaceutical compound recommended for colds, headache, la grippe, &c. No. 140,087; Mar. 8; v. 284; p. 363.
- Bronston Bros. & Co. Inc., New York, N. Y. Skins and hides. No. 145,049; July 26; v. 288; p. 812.
- Brooklyn Overall Company, Brooklyn, N. Y. Overalls. No. 145,619; Aug. 16; v. 289; p. 592.
- Brooklyn Shield & Rubber Company, Brooklyn, N. Y. Dress-shields. No. 138,586; Jan. 4; v. 282; p. 186.
- Brooks, Claude H., Helena, Ark. Alternative. No. 142,949; May 24; v. 286; p. 844.
- Brooks, Clyde, Columbus, Ohio. Protein substance. No. 138,780; Jan. 11; v. 282; p. 375.
- Brooks Co., The, Fort Scott, Kans. Poultry food. No. 139,673; Feb. 8; v. 283; p. 356.
- Brooks, J. B., & Company, Limited, Birmingham, England. Cycle-saddles, (leather.) No. 141,500; Apr. 26; v. 285; p. 778.
- Brooks, Wayne A., Detroit, Mich. Diarrhea remedy for domestic fowl. No. 147,939; Nov. 8.
- Broom & Newman, New York, N. Y. Men's and boys' dress, negligée, work, and night shirts, and pajamas. No. 142,458; May 17; v. 286; p. 625.
- Brotherton, Richard G., Manchester, England. Cotton piece goods. No. 143,561; June 7; v. 287; p. 182.
- Brown, Anderson D., Chicago, Ill. Concentrated coffee essence. No. 146,957; Sept. 27; v. 290; p. 803.
- Brown, Arthur S., Mfg. Co., Tilton, N. H. Transmission-belts made of fabric. No. 146,026; Aug. 23; v. 289; p. 791.
- Brown & Bigelow, St. Paul, Minn. Magazine-pencils. No. 144,356; July 5; v. 288; p. 191.
- Brown & Bigelow, St. Paul, Minn. Art-calendars, greeting-cards, and mottoes. No. 147,758; Nov. 1.
- Brown, C. D., & Co., Inc., Rochester, N. Y. Skin-leathers. No. 140,573; Mar. 22; v. 284; p. 744.
- Brown, Cecelia J., Stapleton, N. Y. Medicinal preparation for certain purposes. No. 147,840; Nov. 1.
- Brown, Clarence W., Philadelphia, Pa. Candies. No. 148,572; Nov. 15.
- Brown Company Inc., The, Philadelphia, Pa. Poultry food made from meat and bone scraps. No. 145,326; Aug. 2; v. 289; p. 177.
- Brown-Durrell Co., Boston, Mass. Women's and children's hose. No. 140,761; Mar. 29; v. 284; p. 942.
- Brown Durrell Co., Boston, Mass. Blouses and overalls. No. 141,328; Apr. 19; v. 285; p. 565.
- Brown & Haley, Tacoma, Wash. Candies. No. 139,258; Feb. 1; v. 283; p. 167.
- Brown & Haley, Tacoma, Wash. Candies. No. 147,556; Oct. 25.
- Brown Instrument Company, The, Philadelphia, Pa. Pyrometers. No. 143,236; May 24; v. 286; p. 855.
- Brown, Jack E., Colton, assignor, by mesne assignments, to Gertrude Johnson, Rialto, Calif. Washing-powder. No. 149,353; Dec. 13.
- Brown, Kenneth W., Yonkers, N. Y. Golf score-pads and cards and covers therefor. No. 147,759; Nov. 1.
- Brown, L. L., Paper Company, Adams, Mass. Writing-paper. No. 144,357; July 5; v. 288; p. 191.
- Brown, Nicholas H., La Fargeville, N. Y. Insecticide. No. 146,958; Sept. 27; v. 290; p. 803.
- Brown, Ralph D., Dubuque, Iowa. Candied popcorn crispettes. No. 139,257; Feb. 1; v. 283; p. 167.
- Brown Shoe Company Inc., St. Louis, Mo. Women's shoes made of leather, canvas, and cloth. No. 140,337; Mar. 15; v. 284; p. 580.
- Brown Shoe Company, Inc., St. Louis, Mo. Shoes for women, made of leather, rubber, fabric, and combinations thereof. No. 143,562; June 7; v. 287; p. 182.
- Brown Shoe Company, Inc., St. Louis, Mo. Shoes for men, made of leather, rubber, fabric, and combinations of the same. No. 145,050; July 26; v. 288; p. 812.
- Brown Shoe Company, Inc., St. Louis, Mo. Shoes for boys and girls, made of leather and canvas. No. 145,327; Aug. 2; v. 289; p. 177.
- Brown, W. H., Son & Co., New York, N. Y. Chintz. No. 139,770; Feb. 22; v. 283; p. 751.
- Brown, William H., Cleveland, Ohio. Flexible knitting-needles. No. 147,940; Nov. 8.
- Brownall, Philip C., *et al.*, executors. (See Williams, Frank B.)
- Browne, Nat B., Los Angeles, Calif. Letter-duplicating machine. No. 142,459; May 17; v. 286; p. 625.
- Browne, Stewart R., Mfg. Co., Inc., New York, N. Y. Pump-valves. No. 142,148; May 3; v. 286; p. 191.
- Browne, Stewart R., Mfg. Co., Inc., New York, N. Y. Braided asbestos lubricated yarn packing. No. 149,854; Dec. 27.
- Brownstein-Louis Company, Los Angeles, Calif. Certain articles of clothing. No. 145,540; Aug. 9; v. 289; p. 407.
- Brownstein-Louis Company, Los Angeles, Calif. Overalls, jumpers, overall-coats, &c. No. 145,541; Aug. 9; v. 289; p. 407.
- Brownsville Canning Co., Corvallis, Oreg. Canned fruits, berries, and vegetables, dried fruit, and fresh deciduous fruit. No. 145,542; Aug. 9; v. 289; p. 407.
- Brubaker, W. L., & Bros., Millersburg, Pa. Machines for boring automobile and locomotive cylinders. No. 145,253; July 26; v. 288; p. 821.
- Bruder, Edmund, Chicago, Ill. Game-board, game-indicator, game-counter, &c. No. 149,644; Dec. 20.
- Bruder, Edmund, Chicago, Ill. Game-board, game-indicator, game-counter, &c. Nos. 149,855-6; Dec. 27.
- Bruder, Otto E., Chicago, Ill. Almanac. No. 140,088; Mar. 8; v. 284; p. 363.
- Brueck, Rose, New York, N. Y. Nail-polish and paste for coloring the nails. No. 140,762; Mar. 29; v. 284; p. 942.
- Brummel & Mendelsohn, New York, N. Y. Certain articles of clothing. No. 145,543; Aug. 9; v. 289; p. 407.
- Brummel & Mendelsohn, New York, N. Y. Hosiery, underwear, and knitted sweaters. Nos. 147,275-7; Oct. 11.
- Brummel & Mendelsohn, New York, N. Y. Hosiery, underwear, and knitted sweaters. Nos. 147,557-8; Oct. 25.
- Brune, Pottberg & Co., New York, N. Y. Cotton piece goods. No. 149,354; Dec. 13.
- Bruner Woolen Company, Inc., The, New York, N. Y. Woolen piece goods and woolen cloths. No. 144,709; July 19; v. 288; p. 616.
- Bruning, J. F., Evansville, Ind. Coffee, tea, spices, and food-flavoring extracts. No. 138,894; Jan. 11; v. 282; p. 379.
- Brunner, Henry, San Francisco, Calif. Leaves and berries used for making a beverage resembling tea. No. 139,494; Feb. 8; v. 283; p. 349.
- Bruns, Benjamin J., Cincinnati, Ohio. Certain medicinal tonic. No. 147,075; Oct. 4.
- Brunson, James I., Philadelphia, Pa. Indigestion medicine. No. 149,005; Dec. 6.
- Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Toilet-seats. No. 139,495; Feb. 8; v. 283; p. 349.
- Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Phonograph-records. No. 139,771; Feb. 22; v. 283; p. 757.
- Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Billiard-cloth for billiard and other game-tables. No. 142,486; May 17; v. 286; p. 625.
- Brunswick-Balke-Collender Company, Wilmington, Del., and Chicago, Ill. Phonograph-records. No. 147,941; Nov. 8.
- Brunswick Knitting Co., New York, N. Y. Sweaters, sweater-coats, bathing suits, knitted caps and boots. No. 143,237; May 24; v. 286; p. 855.
- Brunswick Refrigerating Company, New Brunswick, N. J. Refrigerating and ice-making machines. No. 146,435; Sept. 6; v. 290; p. 208.
- Bryant Chucking Grinder Company, Springfield, Vt. Metal-working grinding-machines. No. 140,250; Mar. 8; v. 284; p. 369.
- Bryant & Company, Portland, Oreg. Canned fish and berries. No. 146,959; Sept. 27; v. 290; p. 803.
- Bryant, Cullen, Portland, Oreg. Canned fruits. No. 144,553; July 12; v. 288; p. 423.
- Bryant Electric Company, The, Bridgeport, Conn. Electric-lamp sockets and receptacles. No. 149,857; Dec. 27.
- Bryce Manufacturing Company, The, Forestville, Conn. Steel balls for bearings. No. 145,254; July 26; v. 288; p. 821.
- Bryden Horse Shoe Co., Catsaqua, Pa. Horseshoes and horseshoe-calks. No. 149,645; Dec. 20.
- Bu Bono, Inc., New York, N. Y., and Toronto, Ontario, Canada. Vermin-exterminator—namely, rat and mouse poison. No. 149,006; Dec. 6.



*Alphabetical list of registrants of trade-marks—Continued.*

- Buchanan, Robert B., Memphis, Tenn. Garden and field seeds. No. 140,574; Mar. 22; v. 284; p. 744.
- Buchholz, Edwin A., Peoria, Ill. Medicinal and toilet preparations. No. 142,950; May 24; v. 286; p. 844.
- Buchsbaum, Samuel, Chicago, Ill. Belt-buckles. No. 141,880; May 3; v. 286; p. 183.
- Buck, A., & Co. Calora, Zurich, Switzerland. Electric heating appliances. No. 146,187; Sept. 6; v. 290; p. 198.
- Buck, Lynn H., Larchmont, N. Y. Intestinal antiseptic and lubricant. No. 139,772; Feb. 22; v. 283; p. 751.
- Buckeye Cotton Oil Company, The, Cincinnati, Ohio. Horse and mule feed. No. 145,051; July 26; v. 288; p. 812.
- Buckeye Traction Ditcher Company, The, Findlay, Ohio. Pipe-screwing apparatus and oil-well pulling and cleaning apparatus. No. 147,942; Nov. 8.
- Buckingham & Hecht, San Francisco, Calif. Shoes, boots, and slippers of leather, rubber, and canvas. No. 143,563; June 7; v. 287; p. 182.
- Buckingham & Hecht, San Francisco, Calif. Shoes made of leather or fabric and combinations thereof. No. 143,915; June 21; v. 287; p. 578.
- Buckner Process Company, Worcester, Mass. Textile machinery-belt. No. 140,089; Mar. 8; v. 284; p. 363.
- Buda Company, The, Harvey, Ill. Bonding-drills. No. 140,029; Mar. 1; v. 284; p. 175.
- Budd, Edward G., Manufacturing Company, Philadelphia, Pa. Vehicle parts. No. 140,260; Mar. 8; v. 284; p. 370.
- Buell, Rex L., Elkhart, Ind. Phonograph-cabinets and parts thereof, case material. No. 142,460; May 17; v. 286; p. 625.
- Buffalo Forge Company, Buffalo, N. Y. Metal-working machinery. No. 141,285; Apr. 12; v. 285; p. 387.
- Buffalo Forge Company, Buffalo, N. Y. Metal-working, sugar-making, &c. machinery. No. 147,943; Nov. 8.
- Buffalo Gasolene Motor Company, Buffalo, N. Y. Internal-combustion engines and parts thereof. No. 144,102; June 21; v. 287; p. 586.
- Buffalo Lens Mfg. Co. Inc., Buffalo, N. Y. Ophthalmic lenses. No. 146,188; Sept. 6; v. 290; p. 198.
- Buffalo Society of Natural Sciences, Buffalo, N. Y. Monthly magazine publication. No. 149,858; Dec. 27.
- Buffington's Incorporated, Worcester, Mass. Complexion-cream. No. 141,881; May 3; v. 286; p. 183.
- Buffington's Incorporated, Worcester, Mass. Medicinal preparations. No. 144,359; July 5; v. 288; p. 191.
- Bufford, Chas., Pontiac, Mich. Preparation to promote the growth of hair. No. 140,763; Mar. 29; v. 284; p. 942.
- Bugenhausen, George H., Minot, N. D. Lawn-swings. No. 146,697; Sept. 20; v. 290; p. 632.
- Buhr, Pfaff & Co., Cincinnati, Ohio. Candy. No. 142,243; May 10; v. 286; p. 403.
- Bullard Machine Tool Co., The, Bridgeport, Conn. Upright lathes having vertical rotary work-carrying tables. No. 138,895; Jan. 11; v. 282; p. 379.
- Bulova, Adolph, New York, N. Y. Watchcases. No. 141,286; Apr. 12; v. 285; p. 387.
- Bulubasis, Chriss, Toledo, Ohio. Medicine for stomach troubles and for stones in the kidney. No. 144,360; July 5; v. 288; p. 191.
- Bunte Brothers, Chicago, Ill. Candies and burnt peanuts. No. 140,030; Mar. 1; v. 284; p. 175.
- Buonaiuto, Giuseppe, New York, N. Y. Hair-tonic. No. 146,698; Sept. 20; v. 290; p. 632.
- Buraimo Company, The, Belmont, Mass. Salves used in the treatment of burns, scalds, bruises. No. 147,076; Oct. 4.
- Buran, Alois, Ridgewood, N. Y. Healing-plasters for wounds, cuts, and bruises. No. 146,699; Sept. 20; v. 290; p. 632.
- Burd High Compression Ring Company, Rockford, Ill. Piston-rings. No. 139,065; Jan. 18; v. 282; p. 557.
- Burdwise, Aaron, Baltimore, Md. Certain musical instruments. Nos. 147,944-5; Nov. 8.
- Buresch, Louis A., Chicago, Ill. Croup-salve, laxative pills, cough medicine, &c. No. 144,554; July 12; v. 288; p. 423.
- Burgener, Frederick, Olney, Ill. Furniture-polish. No. 147,449; Oct. 18.
- Burger Bros. Company, The, Cincinnati, Ohio. Hops. No. 142,957; May 24; v. 286; p. 844.
- Burger Bros. Company, The, Cincinnati, Ohio. Extract of barley-malt for breadstuffs and malted milk. No. 143,564; June 7; v. 287; p. 182.
- Burke, Frank G., New York, N. Y. Toilet soaps. No. 141,882; May 3; v. 286; p. 183.
- Burkey, Jos., Lancaster, Pa. Furniture-polish. No. 147,946; Nov. 8.
- Burkhart, William S., Cincinnati, Ohio. Vegetable blood-purifier. No. 146,700; Sept. 20; v. 290; p. 632.
- Burkman, George, Omaha, Nebr. Leather shoes. No. 145,620; Aug. 16; v. 289; p. 592.
- Burlingame, Ira L., St. Louis, Mo. Water-bag-journal coolers. No. 149,859; Dec. 27.
- Burlington Watch Co., Chicago, Ill. Watches. No. 149,305; Dec. 6.
- Burnett-Larsh Manufacturing Company, The, Dayton, Ohio. Electric motors, switches, cut-outs, &c. No. 144,710; July 19; v. 288; p. 616.
- Burnham, Alfred A., Boston, Mass. Saline aperient for the treatment of diseases. No. 143,844; June 14; v. 287; p. 399.
- Burnham, Alfred A., Boston, Mass. Externally-applied compound for the remedy of headaches. No. 145,934; Aug. 23; v. 289; p. 787.
- Burnham-Munger-Root Dry Goods Company, Kansas City, Mo. Draperies in the piece or bolt. No. 145,328; Aug. 2; v. 289; p. 177.
- Burns, Dawson B., Macon, Ga. Preparation for polishing and silver-plating metallic surfaces. No. 139,122; Jan. 25; v. 282; p. 733.
- Burns, Jabez & Sons, New York, N. Y. Roasters and parts and supplies for same for roasting coffee, &c. No. 138,781; Jan. 11; v. 282; p. 375.
- Burns, Louis G., Seattle, Wash. Candy. No. 146,960; Sept. 27; v. 290; p. 803.
- Burns Mfg. Co., New York, N. Y. Leather-dressings. No. 147,278; Oct. 11.
- Burnstine and Nachman, New York, N. Y. Safety-pins. No. 143,916; June 21; v. 287; p. 578.
- Burnstine and Nachman, New York, N. Y. Hair-nets. No. 143,917; June 21; v. 287; p. 578.
- Burt, Alfred H., Buffalo, N. Y. Candy, peanuts, and popcorn. No. 146,701; Sept. 20; v. 290; p. 632.
- Burtex Company Inc., New York, N. Y. Nightgowns, envelop-chemise, petticoats, bloomers, &c. No. 141,330; Apr. 19; v. 285; p. 565.
- Burton Bros. & Co., New York, N. Y. Cotton piece goods. No. 147,077; Oct. 4.
- Burton Bros. & Co., New York, N. Y. Cotton piece goods. No. 149,007; Dec. 6.
- Buser and Company, Niederdorf, Switzerland. Clocks, parts of clocks, clockworks, watches, parts of watches, and watchworks. No. 146,189; Sept. 6; v. 290; p. 198.
- Bush Electric Company, The, Cleveland, Ohio. Certain machines and tools for electrical workers. No. 147,559; Oct. 25.
- Bushnell, Alvah, Company, Philadelphia, Pa. Mailing-envelops, letter-files, and letter-sheets. No. 139,918; Feb. 22; v. 283; p. 757.
- Bushnell, Alvah, Company, Philadelphia, Pa. Paper and paper-composition, filling-containers, mailing-envelops, &c. No. 146,190; Sept. 6; v. 290; p. 198.
- Bussmann Manufacturing Company, St. Louis, Mo. Electric fuses and cut-outs. No. 141,501; Apr. 26; v. 285; p. 778.
- Butcher, Martha F., Washington, D. C. Insecticides. No. 138,952; Jan. 18; v. 282; p. 553.
- Butler, Ben I., Fort Worth, Tex. Weekly publication. No. 142,244; May 10; v. 286; p. 403.
- Butler Brothers, Chicago, Ill. Gloves of fabric and leather. No. 149,646; Dec. 20.
- Butler, J. W., Paper Company, Chicago, Ill. Bristol-board. No. 142,189; May 3; v. 286; p. 193.
- Butler, J. W., Paper Company, Chicago, Ill. Ledger-paper. Nos. 142,190-1; May 3; v. 286; p. 193.
- Butler, J. W., Paper Company, Chicago, Ill. Bristol-board. Nos. 142,192-3; May 3; v. 286; p. 193.
- Butler, J. W., Paper Company, Chicago, Ill. Lithograph-paper. No. 142,194; May 3; v. 286; p. 193.
- Butler, J. W., Paper Company, Chicago, Ill. Bristol-board. No. 142,195; May 3; v. 286; p. 193.
- Butler, J. W., Paper Company, Chicago, Ill. Bristol-board. No. 142,860; May 17; v. 286; p. 638.
- Butler, J. W., Paper Company, Chicago, Ill. Book-paper. No. 144,103; June 21; v. 287; p. 586.
- Butler, J. W., Paper Company, Chicago, Ill. Paper and stationery. No. 144,104; June 21; v. 287; p. 586.
- Butler, J. W., Paper Company, Chicago, Ill. Writing and printing papers, ruled papers, and papers intended for envelops. No. 144,305; June 28; v. 287; p. 779.
- Butler, J. W., Paper Company, Chicago, Ill. Papers. No. 144,306; June 28; v. 287; p. 779.
- Butler, J. W., Paper Company, Chicago, Ill. Paper for poster and label work. No. 145,052; July 26; v. 288; p. 812.
- Butler, J. W., Paper Company, Chicago, Ill. Writing-paper. No. 145,053; July 26; v. 288; p. 812.
- Butler, J. W., Paper Company, Chicago, Ill. Mailing or correspondence envelops. No. 145,054; July 26; v. 288; p. 812.
- Butler, J. W., Paper Company, Chicago, Ill. Bristol-board. No. 145,055; July 26; v. 288; p. 812.
- Butler, J. W., Paper Company, Chicago, Ill. Colored writing-paper. No. 146,191; Sept. 6; v. 290; p. 198.
- Butterick Publishing Company, New York, N. Y. Instruction sheets or charts for dressmakers' patterns. No. 142,952; May 24; v. 286; p. 844.
- Butterick Publishing Company, The, New York, N. Y. Quarterly periodical or magazine. No. 147,947; Nov. 8.
- Buxton & Skinner Printing and Stationery Company, St. Louis, Mo. Paper and stationery. No. 144,361; July 5; v. 288; p. 192.
- Buxton & Skinner Printing and Stationery Company, St. Louis, Mo. Mucilage. No. 147,560; Oct. 25.
- Buxton & Skinner Printing and Stationery Company, St. Louis, Mo. Writing-inks, typewriter-ribbons, and ink-ing-pads. No. 149,647; Dec. 20.



*Alphabetical list of registrants of trade-marks—Continued.*

- Buyers Export Agency, Inc., New York, N. Y. Flavors of various kinds for making non-alcoholic beverages. No. 145,056; July 26; v. 288; p. 812.
- Byers, A. M., Company, Pittsburgh, Pa. Wrought-iron pipe. No. 140,577; Mar. 22; v. 284; p. 744.
- Byrne, Joseph F., Omaha, Nebr. Underwear. No. 142,861; May 17; v. 286; p. 638.
- Byrnes, Eugene, New York, N. Y. Series of cartoons. Nos. 139,970-1; Mar. 1; v. 284; p. 173.
- Byrnes, Eugene, New York, N. Y. Series of cartoons. No. 142,461; May 17; v. 286; p. 625.
- Byrnes, Eugene, New York, N. Y. Hosiery. No. 148,367; Nov. 15.
- Byrnes, Eugene, New York, N. Y. Cloth, straw, felt, and washable-fabric hats and cloth and washable-fabric caps. No. 148,368; Nov. 15.
- Byrnes, Eugene, New York, N. Y. Blouses, pajamas, and overalls. No. 148,369; Nov. 15.
- Byrnes, Eugene, New York, N. Y. Cloth and washable-fabric suits, overcoats, and trousers. No. 148,370; Nov. 15.
- C. & E. Chapal Freres & Cie., Inc., Brooklyn, N. Y. Skins of animals used in the fur industry. Nos. 142,466-7; May 17; v. 286; p. 625.
- C and E Shoe Company, The, Columbus, Ohio. Leather shoes for women, misses, and children. No. 140,344; Mar. 15; v. 284; p. 580.
- C. W. Shoe Manufacturing Company, Portland, Oreg. Boots, shoes, loggers' boots, pacs, calk-locks, &c. No. 144,054; June 21; v. 287; p. 582.
- C. B. C. Film Sales Corporation, New York, N. Y. Motion-picture films. No. 147,203; Oct. 4.
- C. C. C. Fire Hose Co., Canton, Mass. Rubber tires, tubes, inner liners, and blow-out patches. No. 141,511; Apr. 26; v. 285; p. 778.
- Cabañas Font, Pio, Barcelona, Spain. Natural mineral water. No. 146,738; Sept. 20; v. 290; p. 633.
- Cabitt, Harry, Boston, Mass. Medicinal oil. No. 141,502; Apr. 26; v. 285; p. 778.
- Cable Company, The, Chicago, Ill. Pianos and player-pianos. Nos. 140,764-5; Mar. 29; v. 284; p. 942.
- Cable Company, The, Chicago, Ill. Pianos and player-pianos. No. 143,294; May 31; v. 286; p. 1047.
- Cable-Draper Baking Company, Detroit, Mich. Bread. No. 145,329; Aug. 2; v. 289; p. 177.
- Cable-Nelson Piano Company, Chicago, Ill. Talking-machines and mechanical or player pianos. No. 143,295; May 31; v. 286; p. 1047.
- Cabot, Samuel, Incorporated, Boston, Mass. Ready-mixed paints and tinting paints and stains. No. 143,789; June 7; v. 287; p. 189.
- Cackle Dust Laboratories, Greenville, S. C. Medicated tonic for poultry. No. 143,565; June 7; v. 287; p. 182.
- Cadillac Lumber Company, Cadillac, Mich. Screen-doors. No. 140,031; Mar. 1; v. 284; p. 175.
- Cadmus Products Company, Bayonne, N. J. Oleomargarin, nut-butters, lard, edible oils, and fats, &c. No. 145,935; Aug. 23; v. 289; p. 787.
- Cady & Olmstead Jewelry Co., Kansas City, Mo. Catalogues published from time to time. No. 143,918; June 21; v. 287; p. 578.
- Cahill, W. J., Company, Meriden, Conn. Wheat-flour. No. 148,638; Nov. 22.
- Cailler, Peter, Kohler Swiss Chocolates Co., Inc., Fulton and New York, N. Y. Cocoa and chocolate. No. 143,260; May 24; v. 286; p. 858.
- Cairo Food Products Company, Cairo, Ill. Non-alcoholic beverages. No. 141,503; Apr. 26; v. 285; p. 778.
- Calco Chemical Company, The, Boundbrook, N. J. Chemical, mineral, and vegetable substances. No. 146,069; Aug. 30; v. 289; p. 1013.
- Calco Chemical Company, The, Boundbrook, N. J. Medicinal preparations. No. 146,961; Sept. 27; v. 290; p. 803.
- Caldwell Importing Co., The, Minneapolis, Minn. Coffee. No. 144,991; July 19; v. 288; p. 626.
- Calef Bros., New York, N. Y. Cotton piece goods. No. 140,576; Mar. 22; v. 284; p. 744.
- Calico Printers Association Limited, The, Manchester, England. Cotton piece goods. No. 149,860; Dec. 27.
- California Alkali Company, Los Angeles, Calif. Certain chemicals. No. 146,702; Sept. 20; v. 290; p. 632.
- California Almond Growers Exchange, San Francisco, Calif. Almonds. No. 141,883; May 3; v. 286; p. 183.
- California Central Creameries, San Francisco, Calif. Eggs. No. 144,655; July 12; v. 288; p. 427.
- California Chocolate Shops, Inc., Los Angeles, Calif. Candy. No. 144,711; July 19; v. 288; p. 616.
- California Co-Operative Canneries, San Jose, Calif. Canned fruits and vegetables. No. 141,089; Apr. 12; v. 285; p. 379.
- California Co-Operative Canneries, San Jose, Calif. Canned fruits and vegetables. No. 145,545; Aug. 9; v. 289; p. 407.
- California Cotton Mills Company, Oakland, Calif. Monthly publication. No. 149,008; Dec. 6.
- California Fibre Company, San Francisco, Calif. Vegetable fiber to be used in the manufacture of certain goods. No. 149,861; Dec. 27.
- California Fig-Nut Company, Orange, Calif. Breakfast cereals. No. 139,066; Jan. 18; v. 282; p. 557.
- California Food Specialties Co., Emeryville, Calif. Canned fruits and pork and beans and fruit preserves. No. 146,436; Sept. 6; v. 290; p. 208.
- California Fruit Growers Association, Inc., Los Angeles, Calif. Canned fruits and vegetables. No. 139,067; Jan. 18; v. 282; p. 557.
- California Fruit Products Co., Los Angeles, Calif. Orange marmalade and jelly. No. 145,546; Aug. 9; v. 289; p. 407.
- California Growers Association, Inc., Los Angeles, Calif. Canned fruits and vegetables. Nos. 140,261-2; Mar. 8; v. 284; p. 370.
- California Growers Association, Inc., Los Angeles, Calif. Canned fruits and vegetables. Nos. 141,504-6; Apr. 26; v. 285; p. 778.
- California Growers Association, Inc., Los Angeles, Calif. Canned fruits and vegetables. No. 142,245; May 10; v. 286; p. 403.
- California Growers Association, Inc., Los Angeles, Calif. Canned fruits and vegetables. No. 143,790; June 7; v. 287; p. 190.
- California Growers Association, Inc., Los Angeles, Calif. Canned fruits and vegetables. No. 144,555; July 12; v. 288; p. 423.
- California Growers' Association, Inc., Los Angeles, Calif. Canned fruits, vegetables, and olives. No. 148,793; Nov. 29.
- California Honey Producers Cooperative Exchange, Los Angeles, Calif. Honey. No. 140,090; Mar. 8; v. 284; p. 363.
- California Honey Producers Cooperative Exchange, Los Angeles, Calif. Honey. No. 142,462; May 17; v. 286; p. 625.
- California-Oregon Power Co., San Francisco, Calif. Monthly publication. No. 142,246; May 10; v. 286; p. 403.
- California Packing Corporation, San Francisco, Calif. Candies. No. 138,953; Jan. 18; v. 282; p. 553.
- California Packing Corporation, San Francisco, Calif. Canned goods. No. 139,259; Feb. 1; v. 283; p. 167.
- California Packing Corporation, San Francisco, Calif. Foods. No. 139,773; Feb. 22; v. 283; p. 751.
- California Packing Corporation, San Francisco, Calif. Foods. No. 141,507; Apr. 26; v. 285; p. 778.
- California Packing Corporation, San Francisco, Calif. Canned fruits, berries, and vegetables. No. 146,192; Sept. 6; v. 290; p. 198.
- California Paint Company, Oakland, Calif. Mixed and dry paint, stains, varnishes, paint enamels, &c. Nos. 149,862-3; Dec. 27.
- California Products and Importing Co., Inc., Milwaukee, Wis. Sparkling non-alcoholic grape-juice. No. 139,774; Feb. 22; v. 283; p. 757.
- California Sanitary Canning Co., Los Angeles, Calif. Canned fruits. No. 139,260; Feb. 1; v. 283; p. 167.
- California Sanitary Canning Co., Los Angeles, Calif. Canned fruits. No. 139,496; Feb. 8; v. 283; p. 349.
- Cambridge Scientific Instrument Company, Limited, The, Cambridge, England. Thermometers, pyrometers, draft and pressure gages, &c. No. 143,296; May 31; v. 286; p. 1047.
- California Sprayer Company, Los Angeles, Calif. Dust-sprayers for spraying insecticide and fungicide on all kinds of vegetation. No. 149,864; Dec. 27.
- California State Automobile Association, San Francisco, Calif. Publication published monthly. No. 147,561; Oct. 25.
- California Vegetable Union, Inc., Los Angeles, Calif. Canned pears and tomatoes, certain fresh vegetables and fruits, oranges. No. 149,865; Dec. 27.
- California Wine Association, San Francisco, Calif. Wine. No. 139,261; Feb. 1; v. 283; p. 168.
- Calina Cannery Company, Los Angeles, Calif. Canned tomatoes and apricots. No. 146,437; Sept. 6; v. 290; p. 208.
- Calvert, Alan, assignor to Beautifold Mirror Company, Philadelphia, Pa. Adjustable hand, stand, and wall mirrors. No. 139,497; Feb. 8; v. 283; p. 349.
- Camden Manufacturing Company, Inc., Columbia, Pa. Certain dies and chasers and taps, reamers, &c. No. 147,450; Oct. 18.
- Cameron, A. S., Steam Pump Works, Jersey City, N. J., and New York, N. Y. Pumps. No. 140,766; Mar. 29; v. 284; p. 942.
- Cameron, A. S., Steam Pump Works, Jersey City, N. J., and New York, N. Y. Steam-pumps. No. 141,331; Apr. 19; v. 285; p. 565.
- Cameron Appliance Company, Everett, Mass. Hangers for electric cables. No. 140,091; Mar. 8; v. 284; p. 363.
- Cameron, Francis W., Rochester, N. Y. Preserving preparation for surface-coating typewriter-platens. No. 140,338; Mar. 15; v. 284; p. 580.
- Cameron, Will J., Chicago, Ill. Electric lamps for dentists and surgeons for making examinations. No. 139,444; Feb. 1; v. 283; p. 174.
- Camp, Beauford R., San Francisco, Calif. Candy. No. 145,330; Aug. 2; v. 289; p. 177.
- Camp, Beauford R., San Francisco, Calif. Candy. No. 147,202; Oct. 4.
- Camp Fire Girls, Inc., New York, N. Y. Monthly magazine. No. 143,566; June 7; v. 287; p. 182.



*Alphabetical list of registrants of trade-marks—Continued.*

- Campbell Baking Company, Wilmington, Del., and Kansas City, Mo. Bread and rolls. No. 145,500; Aug. 2; v. 289; p. 184.
- Campbell Baking Powder, Kansas City, Mo., and Wilmington, Del. Patented food ingredient adapted to be mixed with flour to make bread. No. 146,962; Sept. 27; v. 290; p. 803.
- Campbell, Donald S., Salt Lake City, Utah. Certain medicinal mineral water. No. 148,794; Nov. 29.
- Campbell Electric Co., Lynn, Mass. X-Ray tables and parts thereof. No. 141,735; Apr. 26; v. 285; p. 786.
- Campbell, Florence J., Los Angeles, Calif. Periodical publication published weekly. No. 141,884; May 3; v. 286; p. 183.
- Campbell, Holton & Company, Bloomington, Ill. Coffee. No. 139,262; Feb. 1; v. 283; p. 168.
- Campbell, John, & Co., New York, N. Y. Fast acid easily-leveling dyestuffs. No. 140,359; Mar. 15; v. 284; p. 580.
- Campbell, John, & Co., New York, N. Y. Coal-tar dyes. No. 145,621; Aug. 16; v. 289; p. 592.
- Campbell, Orville D., Warren, Ark. Colic and distemper remedies. No. 141,090; Apr. 12; v. 285; p. 379.
- Campe Corporation, New York, N. Y. Knit underwear. No. 140,340; Mar. 15; v. 284; p. 580.
- Campodonico, Angelo, San Francisco, Calif. Non-alcoholic, maltless beverages. No. 140,341; Mar. 15; v. 284; p. 580.
- Canadian Club of New York, New York, N. Y. Monthly magazine. No. 141,091; Apr. 12; v. 285; p. 379.
- Canadian Fish & Cold Storage Co. Limited, Prince Rupert, British Columbia, Canada, and Chicago, Ill. All varieties of frozen fish, salt fish, and smoked fish. No. 143,567; June 7; v. 287; p. 182.
- Candies, Sears, Roebuck and Company. No. 147,033; Sept. 27; v. 290; p. 806.
- Candi-Lax Mfg. Co., The, Cincinnati, Ohio. Fruit laxative. No. 146,703; Sept. 20; v. 290; p. 632.
- Candy Company of America, Washington, D. C. Candies. No. 141,508; Apr. 26; v. 285; p. 778.
- Candy Products Corporation, Chicago, Ill. Candies. No. 138,587; Jan. 4; v. 282; p. 186.
- Candy Products Corporation, Chicago, Ill. Candy. No. 149,866; Dec. 27.
- Cannon Mfg. Co., Kannapolis, N. C. Fabric towels. No. 147,948; Nov. 8.
- Cannon Valley Milling Company, Minneapolis, Minn. Wheat-flour. No. 140,699; Mar. 22; v. 284; p. 749.
- Cantan, Manuel, Key West, Fla. Varnish and paint remover. No. 142,463; May 17; v. 286; p. 625.
- Cantol Wax Company, San Antonio, Tex. Beeswax substitute. No. 147,949; Nov. 8.
- Cantrell-Miller Manufacturing Company Incorporated, San Francisco, Calif. Automobile tools and accessories. No. 141,332; Apr. 19; v. 285; p. 565.
- Cape County Milling Company, Jackson, Mo. Wheat-flour. Nos. 138,782-3; Jan. 11; v. 282; p. 375.
- Cape County Milling Company, Jackson, Mo. Wheat-flour. No. 141,509; Apr. 26; v. 285; p. 778.
- Cape County Milling Company, Jackson, Mo. Self-rising flour. No. 145,331; Aug. 2; v. 289; p. 178.
- Capehart, James, Point Pleasant, W. Va., and Banyan, Merritts Island, Fla. Citrus fruits. No. 143,568; June 7; v. 287; p. 182.
- Capen, Mary B., Detroit, Mich. Market-baskets on wheels. No. 144,712; July 19; v. 288; p. 616.
- Capitol Bedding Company, Washington, D. C. Mattresses. No. 149,867; Dec. 27.
- Capitol Brewery Co., Jefferson City, Mo. Non-alcoholic, non-cereal beverage in the nature of root-beer. No. 142,464; May 17; v. 286; p. 625.
- Capitol Products Company, Des Moines, Iowa. Prepared stock foods. No. 147,950; Nov. 8.
- Capitol Refining Co., South Washington, Va. Cooking-oils. No. 143,569; June 7; v. 287; p. 182.
- Capitol Refining Co., South Washington, Va. Butter-oil. No. 144,307; June 28; v. 287; p. 779.
- Capitol Refining Co., South Washington, Va. Cotton-seed cooking-oil. No. 144,308; June 28; v. 287; p. 779.
- Capitol Refining Co., South Washington, Va. Cooking-oils produced from cotton-seed. No. 146,963; Sept. 27; v. 290; p. 803.
- Capitol Refining Co., South Washington, Va. Salad-oils produced from cotton-seed. No. 146,964; Sept. 27; v. 290; p. 803.
- Caplan, D., & Sons., Baltimore, Md. Middy blouses and dresses and middy-suits. No. 143,845; June 14; v. 287; p. 399.
- Caradine, James T., St. Louis, Mo. Waterproof coats and slickers. No. 140,092; Mar. 8; v. 284; p. 363.
- Carafiol-Silverman Garment Co., St. Louis, Mo. Ladies' misses', and children's middies, dresses, and suits, &c. No. 141,343; Apr. 19; v. 285; p. 566.
- Caravel Company, Inc., New York, N. Y. Hand sewing-needles, toilet-pins, shoe-buckles, &c. No. 145,057; July 26; v. 288; p. 812.
- Carbon Products Company, The, Lancaster, Ohio. Dry batteries. No. 141,510; Apr. 26; v. 285; p. 778.
- Carbon Products Co., The, Lancaster, Ohio. Dry batteries. No. 142,247; May 10; v. 286; p. 403.
- Cardona, Morey and Craig, New York, N. Y. Coffee. No. 145,332; Aug. 2; v. 289; p. 178.
- Cardinal Mills, Chattanooga, Tenn. Hosiery. No. 149,009; Dec. 6.
- Cardinet Candy Co., Oakland, Calif. Candy. No. 138,588; Jan. 4; v. 282; p. 186.
- Cardwell & Waggoner, Yakima, Wash. Fresh fruits. No. 141,885; May 3; v. 286; p. 183.
- Carew Manufacturing Company, South Hadley Falls, Mass. Paper for general printing and writing purposes and mailing-envelops. Nos. 145,058-9; July 26; v. 288; p. 812.
- Carey, Philip, Manufacturing Company, The, Lockwood, Ohio. Waterproof and fireproof fabrics, table-mats, asbestos cloth, and carpet-linings. No. 143,429; May 31; v. 286; p. 1051.
- Carey, Philip, Manufacturing Company, The, Lockland, Ohio. Grease stock. No. 149,200; Dec. 6.
- Carey, William J., Pendleton, Oreg. Soap. No. 141,333; Apr. 19; v. 285; p. 566.
- Cargill, J. Ralston, Americus, Ga. Table-syrup made of sugar. No. 139,498; Feb. 8; v. 283; p. 349.
- Carlisle, Bert, Santa Ana, Calif. Soil-mulching machines. No. 140,577; Mar. 22; v. 284; p. 744.
- Carlisle, Bert, Santa Ana, Calif. Safety-razor-blade holders for honing and stropping the blades by hand. No. 142,953; May 24; v. 286; p. 844.
- Carlisle, Bert, Santa Ana, Calif. Devices for mechanically sharpening scissors. No. 143,297; May 31; v. 286; p. 1047.
- Carlisle Shoe Co., Carlisle, Pa. Leather boots and shoes for men's, women's, and children's use. No. 148,371; Nov. 15.
- Carolene Co., Inc., The, Chicago, Ill. Compound of refined nut-oils and evaporated skimmed milk. No. 138,589; Jan. 4; v. 282; p. 186.
- Carlsbergh, J. B., Seattle, Wash. Liniment for eczema. No. 144,556; July 12; v. 288; p. 423.
- Carlton Trading Company, New York, N. Y. Hosiery. No. 144,713; July 19; v. 288; p. 616.
- Carney, Thomas A., Butte, Mont. Deodorant compound. No. 148,795; Nov. 29.
- Carolina Crushed Shell Co., Charleston, S. C. Crushed oyster-shell used as poultry feed. No. 149,868; Dec. 27.
- Carolina Remedies Company, Union, S. C. Veterinary preparations. No. 149,648; Dec. 20.
- Caron, William J., Uxbridge, Mass. Medicinal preparation. No. 143,298; May 31; v. 286; p. 1047.
- Carpenter, Elmer, Harvard, Ill. Face-lotion. No. 146,704; Sept. 20; v. 290; p. 632.
- Carpenter, Harry, New York, N. Y. Dyestuffs. No. 140,767; Mar. 29; v. 284; p. 942.
- Carpenter-Morton Company, Boston, Mass. Dyes and dyeing compositions. No. 144,155; June 21; v. 287; p. 583.
- Carpenter Steel Company, The, Reading, Pa. Tool-steels in bars, billets, and shapes. No. 138,784; Jan. 11; v. 282; p. 375.
- Carpenter Steel Company, The, Reading, Pa. Alloy steels in bars, billets, and shapes. No. 138,785; Jan. 11; v. 282; p. 375.
- Carpenter Steel Company, The, Reading, Pa. Tool-steel in bars, billets, and shapes. Nos. 138,786-8; Jan. 11; v. 282; p. 375.
- Carpenter Steel Company, The, Reading, Pa. Alloy steels in bars, billets, and shapes. Nos. 138,789-91; Jan. 11; v. 282; p. 375.
- Carpenter Steel Company, The, Reading, Pa. Tool-steel in bars, billets, and shapes. No. 138,792; Jan. 11; v. 282; p. 375.
- Carpenter Steel Company, The, Reading, Pa. Alloy steels in bars, billets, and shapes. No. 138,793; Jan. 11; v. 282; p. 375.
- Carpenter Steel Company, The, Reading, Pa. Tool-steel in bars, billets, and shapes. No. 138,794; Jan. 11; v. 282; p. 375.
- Carpenter Steel Company, The, Reading, Pa. Alloy steels in bars, billets, and shapes. No. 141,092; Apr. 12; v. 285; p. 380.
- Carpp, Ruby T., Bangor, Mich. Canned berries and canned fruit. No. 148,243; Nov. 8.
- Carr Fastener Company, Cambridge, Mass. Snap-fasteners. No. 138,590; Jan. 4; v. 282; p. 186.
- Carr, J. B., Biscuit Co., Wilkes-Barre, Pa. Soda biscuits and crackers. No. 144,517; July 5; v. 288; p. 198.
- Carr, J. B., Biscuit Co., Wilkes-Barre, Pa. Soda biscuit and crackers. No. 146,705; Sept. 20; v. 290; p. 632.
- Carr, Ryder & Adams Co., Dubuque, Iowa. Building and roofing papers and fabricated woodwork consisting of sash, doors, &c. No. 141,030; Mar. 29; v. 284; p. 951.
- Carriello, Achille, Chelsea, Mass. Medicine for venereal diseases. No. 138,795; Jan. 11; v. 282; p. 376.
- Carroll Dunham Smith Homoeopathic Pharmacal Co., New York, N. Y. Preparation for eczema, pruritus, acne, &c. No. 140,214; Mar. 8; v. 284; p. 367.
- Carroll, Effie M., San Diego, Calif. Liquid preparation for the hair and scalp. No. 141,886; May 3; v. 286; p. 183.
- Carroll, Frank S., Asheville, N. C. Antiseptic mouth-washes. No. 148,639; Nov. 22.
- Carson, Chas. H., Roanoke, Va. Newspaper-column. No. 140,093; Mar. 8; v. 284; p. 363.
- Carson, Pirie, Scott & Co., Chicago, Ill. One-piece work-garments. No. 143,288; May 24; v. 286; p. 855.



- Carson, Pirie, Scott & Co., assignor to Carson, Pirie, Scott & Company, Chicago, Ill. Bleached and unbleached cotton flannels. No. 143,299; May 31; v. 286; p. 1047.
- Carson Pirie Scott & Co., Chicago, Ill. Ladies' knitted underwear. No. 144,362; July 5; v. 288; p. 192.
- Carson Pirie Scott & Co., Chicago, Ill. Coats, capes, sets, scarfs, muffis, hats, and caps of fur. No. 145,580; Aug. 9; v. 289; p. 408.
- Carson Pirie Scott & Company, Chicago, Ill. Silk piece goods. No. 147,078; Oct. 4.
- Carson, Pirie, Scott & Co., assignor to Carson Pirie Scott & Company, Chicago, Ill. Percale dress goods in the piece. No. 149,869; Dec. 27.
- Carter Bloxonend Flooring Co., Kansas City, Mo. Wooden flooring. No. 149,565; Dec. 13.
- Carter Carburetor Company, St. Louis, Mo. Carbureters. No. 138,896; Jan. 11; v. 282; p. 379.
- Carter Carburetor Company, St. Louis, Mo. Gaskets of fibrous material. No. 145,622; Aug. 16; v. 289; p. 592.
- Carter, Macy & Co., Inc., New York, N. Y. Teas. No. 139,775; Feb. 22; v. 283; p. 751.
- Carter Medicine Company, New York, N. Y. Plasters for the relief of aches and pains. No. 148,640; Nov. 22.
- Cartier, Inc., New York, N. Y. Jewelry, tableware, &c. No. 144,363; July 5; v. 288; p. 192.
- Cartier, Inc., New York, N. Y. Lead-pencils and magazine lead-pencils. No. 147,951; Nov. 8.
- Cartier, Inc., New York, N. Y. Purses and pocket books. No. 149,870; Dec. 27.
- Cary Maple Sugar Company, St. Johnsbury, Vt. Cakes of maple-sugar, cans of soft-grain maple-sugar, and pure sap syrup. No. 146,027; Aug. 23; v. 289; p. 791.
- Case-Fischer Manufacturing Company, Parkersburg, W. Va. Articles of clothing. No. 142,248; May 10; v. 286; p. 403.
- Case, Francis L., Rapid City, S. D. Liniment for rheumatism, neuralgia, &c. No. 144,557; July 12; v. 288; p. 423.
- Case, J. I., Threshing Machine Company, Racine, Wis. Automobiles. No. 139,063; Jan. 18; v. 282; p. 558.
- Case Provision and Supply Co., Trenton, N. J. Pork, particularly bacon or strips of pork in bags. No. 144,714; July 19; v. 288; p. 616.
- Casein Manufacturing Company, The, New York, N. Y. Casein glues or adhesives. No. 139,925; Feb. 22; v. 283; p. 757.
- Casein Manufacturing Co., The, New York, N. Y. Casein glue. No. 141,334; Apr. 19; v. 285; p. 566.
- Casein Manufacturing Company, The, New York, N. Y. Core-binding compound. No. 147,760; Nov. 1.
- Caskey-Dupree Mfg. Co., The, Marietta, Ohio. Ventilators for windows, transoms, and doors. No. 139,264; Feb. 1; v. 283; p. 168.
- Caskey-Dupree Mfg. Co., The, Marietta, Ohio. Sashes and frames for certain named purposes. No. 149,757; Dec. 20.
- Casper Gripper Co., Cleveland, Ohio. Grippers for use on printing-presses. No. 143,300; May 31; v. 286; p. 1048.
- Cassatt, E. B., Company, The, Cleveland, Ohio. Tractors. No. 149,355; Dec. 13.
- Cassatt, Edward B., Cleveland, Ohio. Manufactured leather. No. 148,796; Nov. 29.
- Cassebeer, H. A., Inc., New York, N. Y. Hair-tonic. No. 144,558; July 12; v. 288; p. 423.
- Cassidy, Robinson A., New York, N. Y. Disinfectants. No. 144,179; June 28; v. 287; p. 773.
- Castle Braid Company, New York, N. Y. Braid for crocheting and knitting. No. 147,952; Nov. 8.
- Catalfano, Nicola, Coney Island, N. Y. Shaving-cream. No. 142,490; May 17; v. 286; p. 625.
- Catawba Candy Company, The, Sandusky, Ohio. Candy. No. 147,562; Oct. 25.
- Cattaraugus Cutlery Co., Little Valley, N. Y. Cutlery and table flat-ware made of base metal. No. 139,499; Feb. 8; v. 283; p. 349.
- Cattaraugus Cutlery Co., Little Valley, N. Y. Razor strops and hones. No. 139,500; Feb. 8; v. 283; p. 349.
- Cattell, J. McKeen, Garrison, N. Y. Periodicals published weekly and at other intervals. No. 145,275; July 26; v. 288; p. 823.
- Caughy, Joseph D., New York, N. Y. Plasters and cement. No. 142,197; May 3; v. 286; p. 194.
- Caughy, Joseph D., New York, N. Y. Dental plaster. No. 149,566; Dec. 13.
- Caulk, L. D., Company, The, Milford, Del. Preparation for treatment of pyorrhea. No. 147,079; Oct. 4.
- Caulk, L. D., Company, Milford, Del. Porcelain for filling teeth and making dental facings, &c. No. 149,306; Dec. 6.
- Caulk, L. D., Company, Milford, Del. Certain dental supplies and appliances. No. 149,307; Dec. 6.
- Caulk, L. D., Company, The, Milford, Del. Porcelain used for filling teeth and for making dental facings, crowns, and window inlays. No. 149,758; Dec. 20.
- Caulk, L. D., Company, The, Milford, Del. Certain chemicals and chemical preparations. No. 149,759; Dec. 20.
- Causey, Mrs. Georgia M., Macon, Ga. Medicinal preparations. No. 148,372; Nov. 15.
- Cavalier, Roy J., Oswego, N. Y. Hose-supporters. No. 139,265; Feb. 1; v. 283; p. 168.
- Cawley, Chester A., Somerville, N. J. Non-alcoholic fruit beverage. No. 145,623; Aug. 16; v. 289; p. 592.
- Cawthorne Tubercular Treatment, Inc., Nashville, Tenn. Medicinal compound for the treatment of tuberculosis. No. 141,887; May 3; v. 286; p. 183.
- Cayuga Linen & Cotton Mills, Inc., Auburn, N. Y. Twine. Nos. 139,266-8; Feb. 1; v. 283; p. 168.
- Ceda-Oda Company, The, Franklin Park, Mass. Polish for furniture, floors, pianos, &c. No. 147,080; Oct. 4.
- Cedar Hill Formulae Company, The, New Britain, Conn. Preparation for cleaning and polishing varnished surfaces. No. 147,953; Nov. 8.
- Cee Bee Dress Co., New York, N. Y. Dresses. No. 147,563; Oct. 25.
- Cee & Vee Products Co., New York, N. Y. Lubricating oils and greases. No. 147,479; Oct. 18.
- Cellokay Manufacturing Company, New York, N. Y. Indicators for showing state of charge of storage batteries. No. 144,715; July 19; v. 288; p. 616.
- Cellugraph Engineering Corporation, Boston, Mass. Bearing materials made of treated wood. No. 140,768; Mar. 29; v. 284; p. 942.
- Celluloid Company, The, New York, N. Y. Certain toilet and paint brushes, whisk-brooms. Nos. 148,373-4; Nov. 15.
- Centennial Mill Company of Tennessee, Memphis, Tenn. Wheat-flour. No. 140,769; Mar. 29; v. 284; p. 942.
- Centennial Mill Company, Seattle, Wash. Wheat-flour. No. 141,512; Apr. 26; v. 285; p. 778.
- Central Adhesive Company, Chicago, Ill. Vegetable glue and paste for paper-box manufacturing, &c. No. 149,871; Dec. 27.
- Central Beverage Company, Lexington, Mo. Cereal malt beverage. No. 140,094; Mar. 8; v. 284; p. 363.
- Central Consumers Company, Incorporated, Louisville, Ky. Non-alcoholic, maltless beverage and syrup for making same. No. 146,635; Sept. 13; v. 290; p. 426.
- Central Dyestuffs & Chemical Co., Newark, N. J. Dye-stuffs and chemicals. No. 141,889; May 3; v. 286; p. 183.
- Central Furniture Packing Company, The, Chicago, Ill. Crates, wood boxes, and cartons. No. 149,872; Dec. 27.
- Central Manufacturing Company, St. Louis, Mo. Laundry-washing machines and wringers. No. 146,707; Sept. 20; v. 290; p. 632.
- Central Ohio Paper Company, The, Columbus, Ohio. Paper. No. 144,864; July 5; v. 288; p. 192.
- Central Ohio Paper Co., The, Columbus, Ohio. Printing and writing papers. No. 146,435; Sept. 6; v. 290; p. 208.
- Central Ohio Paper Company, The, Columbus, Ohio. Correspondence-envelopes. No. 150,191; Dec. 27.
- Central Talking Machine Shop, (Inc.) New York, N. Y. Toys for use with automatic pianos. No. 146,193; Sept. 6; v. 290; p. 193.
- Central Tent & Awning Company, St. Louis, Mo. Tents and awnings. No. 138,591; Jan. 4; v. 282; p. 186.
- Cereal Products Refining Company, San Francisco, Calif. Syrup for food purposes and a dough-developer. No. 138,592; Jan. 4; v. 282; p. 186.
- Cereal Products Refining Company, San Francisco, Calif. Syrup for food purposes. Nos. 138,593-4; Jan. 4; v. 282; p. 186.
- Certain-Teed Products Corporation, St. Louis, Mo. Linoleum, oil-cloth, and floor-coverings. No. 142,954; May 24; v. 286; p. 844.
- Cessna, Charles E., Chicago, Ill. Laxative pills. No. 146,965; Sept. 27; v. 290; p. 803.
- Cessna, Charles E., Chicago, Ill. Eye-waters or eye-lotions and antiseptic and healing ointments. No. 148,375; Nov. 15.
- Chain Shirt Shops, Inc., New York, N. Y. Articles of clothing. No. 142,487; May 17; v. 286; p. 625.
- Chalet Chocolate Corporation, New York, N. Y. Candy, chocolate, and cocoa. No. 138,595; Jan. 4; v. 282; p. 186.
- Challenge High Vacuum Company, Chicago, Ill. Thermally-insulated containers for foods and liquids. No. 145,624; Aug. 16; v. 289; p. 592.
- Challenger, Edgar O., New York, N. Y. Soft-winter-wheat low-grade flour. No. 139,505; Feb. 8; v. 283; p. 350.
- Challenger, Edgar O., New York, N. Y. Spring-wheat flour. No. 139,506; Feb. 8; v. 283; p. 350.
- Challenger, Edgar O., New York, N. Y. Kansas hard-wheat patent-flour. No. 148,797; Nov. 29.
- Chalmers Motor Corporation, New York, N. Y. Automobiles. No. 140,770; Mar. 29; v. 284; p. 942.
- Chalmette Laundry Co. Ltd., The, New Orleans, La. Laundry-receptacles, such as boxes, bags, and the like. No. 146,560; Sept. 13; v. 290; p. 421.
- Chamberlain, Charles P., Los Angeles, Calif. Electric-arc lamps. No. 141,513; Apr. 26; v. 285; p. 778.
- Chamberlain, F. B., Company, East St. Louis, Ill., and St. Louis, Mo. Baking-soda. No. 147,954; Nov. 8.
- Chamberlain-Haber Chemical Company, Cleveland, Ohio. Insect-destroying composition. No. 141,736; Apr. 26; v. 285; p. 786.
- Chamberlayne, Inc., New York, N. Y. Household furniture. No. 149,873; Dec. 27.
- Champion Amusement Company, The, Cincinnati, Ohio. Card game. No. 142,465; May 17; v. 286; p. 625.



*Alphabetical list of registrants of trade-marks—Continued.*

- Champion Auto Spring Company, St. Louis, Mo. Automobile-springs. No. 140,343; Mar. 15; v. 284; p. 580.
- Champion Blower & Forge Co., Lancaster, Pa. Blowers. No. 146,439; Sept. 6; v. 290; p. 208.
- Champion Coated Paper Company, The, Hamilton, Ohio. Book and post-card paper. No. 140,771; Mar. 29; v. 284; p. 942.
- Champion Ignition Company, Flint, Mich. Spark-plugs and parts thereof. No. 141,093; Aug. 12; v. 285; p. 380.
- Champion Milling & Grain Co., Clinton, Iowa. Dairy, stock, and poultry mixed feeds. No. 147,761; Nov. 1.
- Champion Motors Corporation, Philadelphia, Pa. Automobiles. No. 144,716; July 19; v. 288; p. 616.
- Champion Spark Plug Company, Toledo, Ohio. Described spark-plug cleaner. No. 141,031; Mar. 29; v. 284; p. 951.
- Chandless & Co. Inc., New York and Millbrook, N. Y. Raw or partly prepared materials. No. 145,625; Aug. 16; v. 289; p. 592.
- Channell Chemical Company, Chicago, Ill.; Toronto, Canada; London, England, and Paris, France. Polish for cleaning and polishing furniture, floors, linoleums, &c. Nos. 149,874-5; Dec. 27.
- Chapal, C. & E., Freres & Cie., Inc., Brooklyn, N. Y. Skins of animals used in the fur industry. No. 139,735; Feb. 15; v. 283; p. 543.
- Chapin-Sacks Corporation, Washington, D. C. Ice-cream. No. 142,862; May 17; v. 286; p. 638.
- Chaplin, W. H., & Company, Limited, London, England. Wines. No. 139,926; Feb. 22; v. 283; p. 757.
- Chapman, Frank, Providence, R. I. Soldering-flux. No. 139,269; Feb. 1; v. 283; p. 168.
- Chapman, Luther D., Wellesley, Mass. Fly and snelled-fishhook books. No. 142,675; May 17; v. 286; p. 631.
- Chapman & Smith Company, Chicago, Ill. Shortening compound. No. 147,081; Oct. 4.
- Chapman, William M., New Orleans, La. Non-alcoholic maltless beverage. No. 147,724; Oct. 25.
- Chappell, Alexander W., Red Bank, N. J. Medicinal preparation for indigestion, dyspepsia, flatulence, &c. No. 144,183; June 28; v. 287; p. 773.
- Chappins, John A., La Chaux-de-Fonds, Switzerland. Mechanical toys. No. 141,890; May 3; v. 286; p. 183.
- Chardard, Jean B. D. L., Paris, France. Automobiles, automobile radiators, reservoirs, and hoods. No. 143,930; June 21; v. 287; p. 578.
- Charles William Stores, The, Inc., Brooklyn, N. Y. Grass rugs. No. 140,469; Mar. 15; v. 284; p. 584.
- Charles William Stores, Inc., The, Brooklyn, N. Y. Cream-separators. No. 148,798; Nov. 29.
- Charleston Milling Company, Charleston, Mo. Self-rising wheat-flour. No. 142,488; May 17; v. 286; p. 625.
- Charter Chocolate Company, Boston, Mass. Candy. No. 144,718; July 19; v. 288; p. 616.
- Chase, A. B., Piano Co., Inc., New York, N. Y. Pianos and player-pianos. Nos. 139,501-2; Feb. 8; v. 283; p. 349-50.
- Chase & Co., Jacksonville, Fla. Fresh citrus fruits. Nos. 146,440-1; Sept. 6; v. 290; p. 208.
- Chase, G. W., & Son Mer. Co., St. Joseph, Mo. Candy. No. 147,564; Oct. 25.
- Chase & Sanborn, Boston, Mass. Coffee. No. 147,463; Oct. 18.
- Chase & Sanborn, Boston, Mass. Tea and coffee. No. 149,876; Dec. 27.
- Chastains' Incorporated, Lewiston, Idaho. Photographic films. No. 143,919; June 21; v. 287; p. 578.
- Chatfield Manufacturing Company, The, Cincinnati, Ohio. Prepared roofing in roll, sheet, or shingle form. No. 148,376; Nov. 15.
- Chatfield and Woods Co., The, Cincinnati, Ohio. Wrapping-paper for general purposes. No. 139,776; Feb. 22; v. 283; p. 751.
- Chatham Bottling Company, Savannah, Ga. Non-alcoholic, maltless beverages. No. 146,708; Sept. 20; v. 290; p. 632.
- Chatham Manufacturing Company, Winston-Salem, N. C. Blankets made of wool and of cotton or combination of wool and cotton. No. 146,637; Sept. 13; v. 290; p. 426.
- Chatham Manufacturing Company, Winston-Salem, N. C. Blankets made of wool and cotton or a combination of wool and cotton. Nos. 149,010-12; Dec. 6.
- Chattanooga Plow Company, Chattanooga, Tenn., and Chicago, Ill. Furnaces, evaporators, and parts thereof. No. 143,301; May 31; v. 286; p. 1048.
- Chauncey, Albert B., Boston, Mass. Neckties or bows. No. 147,565; Oct. 25.
- Cheek, Franklin W., Tracy City, Tenn. Cold, massage, and toilet cream. No. 140,578; Mar. 22; v. 284; p. 744.
- Cheek, Simmons L., Birmingham, Ala. Toilet preparations. No. 148,377; Nov. 15.
- Chemical Paper Company, Washington, D. C. Completely-printed transparent meat labels. No. 145,333; Aug. 2; v. 289; p. 178.
- Chemical Products Co., The, Memphis, Tenn. Preparation for the treatment of the gums. No. 146,442; Sept. 6; v. 290; p. 208.
- Chemical Research Company of America, (now by change of name Korite Products, Inc.), Boston, Mass. Leather-preservative. Nos. 142,468-9; May 17; v. 286; p. 625.
- Chemical Utilities Company, The, Cincinnati, Ohio. Detergent. No. 145,936; Aug. 23; v. 289; p. 787.
- Chemical Utilities Company, The, Cincinnati, Ohio. Detergent. No. 147,762; Nov. 1.
- Chemical Utilities Company, The, Cincinnati, Ohio. Detergent and polishing materials. No. 147,955; Nov. 8.
- Chemical Works Flora, Dubendorf, Switzerland. Concentrated artificial fruit-oils. No. 144,365; July 5; v. 288; p. 192.
- Chemical Works Flora, Dubendorf, Switzerland. Natural and synthetic oils and essences suitable for the production of perfumes. No. 145,883; Aug. 16; v. 289; p. 601.
- Chemical Works Flora, Dubendorf, Switzerland. Essences, fruit oils, syrup for beverages. No. 146,194; Sept. 6; v. 290; p. 198.
- Chemical Works Flora, Dubendorf, Switzerland. Essences, fruit oils, and syrup for food-flavoring. No. 147,566; Oct. 25.
- Chemische Fabrik vormals Sandoz, Basel, Switzerland. Pharmaceutical product comprising a remedy for gallstones. Nos. 142,955-6; May 21; v. 286; p. 844.
- Chemische Fabrik vormals Sandoz, Basel, Switzerland. Medicinal preparation. No. 144,233; June 28; v. 287; p. 775.
- Chemische Fabrik vormals Sandoz, Basel, Switzerland. Certain medicinal preparations. No. 149,877; Dec. 27.
- Cheney Brothers, South Manchester, Conn. Fabrics. No. 139,270; Feb. 1; v. 283; p. 168.
- Cheney Brothers, South Manchester, Conn. High-grade decorative silks only in the piece. No. 140,700; Mar. 22; v. 284; p. 749.
- Cheney Brothers, South Manchester, Conn. Silk or part silk woven, knitted, netted, textile, and pile fabrics in the piece. No. 141,514; Apr. 26; v. 285; p. 778.
- Cheney Brothers, South Manchester, Conn. Fabrics of silk and silk mixtures in the piece. No. 143,920; June 21; v. 287; p. 578.
- Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece, in whole or part silk. No. 144,366; July 5; v. 288; p. 192.
- Cheney Brothers, South Manchester, Conn. Woven, knitted, &c., fabrics in the piece. No. 145,334; Aug. 2; v. 289; p. 178.
- Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. No. 146,709; Sept. 20; v. 290; p. 632.
- Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. No. 147,279; Oct. 11.
- Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. No. 147,567; Oct. 25.
- Cheney & Co., New York, N. Y. Stucco and stucco materials. No. 145,626; Aug. 16; v. 289; p. 592.
- Cheney & Co., New York, N. Y. Composition floorings and the mineral compositions for use in making same. No. 146,561; Sept. 13; v. 290; p. 421.
- Cheney, Henry, Hammer Corporation, Little Falls, N. Y. Hammers and wrenches. No. 149,649; Dec. 20.
- Cheney, S., & Son, Manlius, N. Y. Mower-knife and tool sharpener. No. 144,105; June 21; v. 287; p. 586.
- Cheney, S., & Son, Manlius, N. Y. Gray-iron chaplets. No. 146,443; Sept. 6; v. 290; p. 208.
- Cheney, S., & Son, Manlius, N. Y. Knife and tool sharpeners. No. 147,568; Oct. 25.
- Cheramy, Incorporated, New York, N. Y. Brilliantine, face powder and cream, toilet water, &c. No. 146,966; Sept. 27; v. 290; p. 803.
- Cherokee Spinning Co., Knoxville, Tenn. Yarns and threads. No. 142,957; May 24; v. 286; p. 844.
- Cherokee Spinning Company, Knoxville, Tenn. Yarns and threads. No. 149,356; Dec. 13.
- Chesapeake Belting Company, The, Baltimore, Md. Canvas belting. No. 146,710; Sept. 20; v. 290; p. 632.
- Chesebrough Manufacturing Company, Consolidated, New York, N. Y. Toilet soap. No. 138,954; Jan. 18; v. 282; p. 553.
- Chesebrough Manufacturing Company, Consolidated, New York, N. Y. Medicinal toilet and pharmaceutical preparations. Nos. 140,345-6; Mar. 15; v. 284; p. 580.
- Cheshire Kitchens, Inc., Dover, Del., and New York, N. Y. Dehydrated Welsh rabbit. No. 144,823; July 19; v. 288; p. 619.
- Chesler, Henry, Cleveland, Ohio. Burlap, jute, and cotton bags. No. 146,711; Sept. 20; v. 290; p. 632.
- Chesnutt, Cooper & Co., London, England. Bristles. No. 149,650; Dec. 20.
- Chesnutt, James M., Clinton, N. C. Medicine for headache. No. 141,335; Apr. 19; v. 285; p. 566.
- Chester Crystal Ice Company, Chester, Pa. Ice. No. 139,271; Feb. 1; v. 283; p. 168.
- Chester Kent & Co., Inc., Boston, Mass. General tonic. No. 144,591; July 12; v. 288; p. 424.
- Chestnut Ridge Corporation, New York, N. Y. Coatings for crucibles and linings for furnaces. No. 142,470; May 17; v. 286; p. 625.
- Chicago Athletic Association, Chicago, Ill. Monthly publications—The Cherry Circle. No. 144,719; July 19; v. 288; p. 616.



- Chicago Belting Company, Chicago, Ill. Leather belting. No. 140,772; Mar. 29; v. 284; p. 942.
- Chicago Belting Company, Chicago, Ill. Leather belting. Nos. 141,891-4; May 3; v. 286; p. 183.
- Chicago Belting Company, Chicago, Ill. Leather belting. No. 145,627; Aug. 16; v. 289; p. 592.
- Chicago Belting Company, Chicago, Ill. Leather belting. Paint oils. No. 145,888; Aug. 16; v. 289; p. 602.
- Chicago Fire Brick Co., Chicago, Ill. Bricks. No. 138,900; Jan. 11; v. 282; p. 380.
- Chicago Fire Brick Co., Chicago, Ill. Certain construction materials. No. 148,641; Nov. 22.
- Chicago Flexible Shaft Company, Chicago, Ill. Electric batirons. No. 145,335; Aug. 2; v. 289; p. 178.
- Chicago Insulated Wire & Mfg. Co., Sycamore, Ill. Electrical wires and cables. No. 141,515; Apr. 26; v. 285; p. 778.
- Chicago Label and Box Co., Chicago, Ill. Prescription-file cases. No. 147,841; Nov. 1.
- Chicago Metallic Manufacturing Co., Chicago, Ill. Muffin-pans. No. 138,796; Jan. 11; v. 282; p. 376.
- Chicago Mercantile Company, Chicago, Ill. Hats. No. 149,013; Dec. 6.
- Chicago Mica Co., Valparaiso, Ind. Electrical appliances. No. 145,060; July 26; v. 288; p. 812.
- Chicago Orthopedic Appliance Company, Chicago, Ill. Deformity-braces, extension-shoes, artificial limbs, &c. No. 149,359; Dec. 13.
- Chicago Pneumatic Tool Company, Chicago, Ill. Lubricating-oil. No. 141,094; Apr. 12; v. 285; p. 380.
- Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic tools and compressed-air machinery. No. 141,737; Apr. 26; v. 285; p. 786.
- Chicago Pneumatic Tool Company, Chicago, Ill. Electric tools, hoists, and circuit-breakers. No. 148,378; Nov. 15.
- Chicago Pneumatic Tool Company, Chicago, Ill. Pneumatic tools and machinery. No. 149,357; Dec. 13.
- Chicago Pneumatic Tool Company, Chicago, Ill. Certain machinery and tools. No. 149,358; Dec. 13.
- Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic tools—namely, riveting-hammers. Nos. 149,878-9; Dec. 27.
- Chicago Steel Post Company, Chicago, Ill. Metallic fence-posts. Nos. 138,955-6; Jan. 18; v. 282; p. 553.
- Chicago Tanning Co., Chicago, Ill. Leathers. No. 148,799; Nov. 29.
- Chicago White Lead and Oil Co., Chicago, Ill. Paints and painting materials. No. 143,302; May 31; v. 286; p. 1048.
- Chicopee Mfg. Corporation, Chicopee Falls, Mass. Cotton piece goods. Nos. 147,280-1; Oct. 11.
- Children's Vehicle Corporation, East Templeton, Mass. Baby-carriages and similar vehicles. No. 141,336; Apr. 19; v. 285; p. 566.
- Childs, W. H. & Son., New York, N. Y. Muslin and cotton piece goods. No. 139,507; Feb. 8; v. 283; p. 350.
- Chin-Chin Chemical Company, Chicago, Ill. Liquid furniture and automobile polish. No. 147,082; Oct. 4.
- China Palace Company, Inc., El Paso, Tex. Notions. No. 141,895; May 3; v. 286; p. 183.
- Ching, Young, Astoria, Oreg. Medicine for an itch treatment. No. 143,791; June 7; v. 287; p. 190.
- Chinook Lumber & Shingle Co., Seattle, Wash. Shingles. No. 139,069; Jan. 18; v. 282; p. 558.
- Chinook Packing Co., Chinook, Wash. Canned fish. No. 142,471; May 17; v. 286; p. 625.
- Chipley, John D., Moorefield, W. Va. Laxative pills. No. 141,516; Apr. 26; v. 285; p. 778.
- Chipman, Benjamin, Baltimore, Md. Men's silk and cotton dresses or work shirts. No. 138,596; Jan. 4; v. 282; p. 186.
- Chipman Chemical Engineering Co. Inc., New York, N. Y. Protective paint for iron, steel, and other metals. Nos. 146,562-3; Sept. 13; v. 290; p. 421.
- Chipman Knitting Mills, Easton, Pa. Hosiery for men, women, and children. No. 142,958; May 24; v. 286; p. 844.
- Chipman Knitting Mills, Easton, Pa. Hosiery. No. 144,720; July 19; v. 288; p. 616.
- Chipman Knitting Mills, Easton, Pa. Hosiery for men, women, and children. No. 145,628; Aug. 16; v. 289; p. 592.
- Chipman Knitting Mills, Easton and Spring Grove, Pa. Hosiery. No. 143,792; June 7; v. 287; p. 190.
- Chipman Knitting Mills, Easton, Pa. Hosiery for men, women, and children. No. 147,842; Nov. 1.
- Chipman Knitting Mills, Easton, Pa. Ladies' hosiery. No. 147,956; Nov. 8.
- Chippewa Springs Corporation, Minneapolis, Minn. Natural spring-water and its products. No. 144,721; July 19; v. 288; p. 616.
- Chippewa Springs Corporation, Minneapolis, Minn. Beverage. No. 141,722; July 19; v. 288; p. 616.
- Chism, George E., Columbus, Ohio. Mechanical traffic-signals for vehicles. No. 148,642; Nov. 22.
- Chism, John S., Wichita, Kans. Salve for relief of inflammations, headache, catarrh, &c. No. 145,629; Aug. 16; v. 289; p. 592.
- Chocolate Products Company, Baltimore, Md. Candy. No. 149,567; Dec. 13.
- Chocolate Truffles Co. Inc., Portland, Oreg. Candy. No. 149,360; Dec. 13.
- Chocolate Yeast Co., Inc., New York, N. Y. Chocolate candy containing yeast. No. 146,967; Sept. 27; v. 290; p. 803.
- Chong, Leong E., Ryde, Calif. Fresh deciduous fruits. No. 139,972; Mar. 1; v. 284; p. 173.
- Chowdhury, Kneelas D., Chicago, Ill. Face and talcum powders, toilet waters, perfumes, rouges, sachets. No. 147,436; Oct. 11.
- Chrome Steel Works, Chrome, N. J. Iron and steel forgings and castings. No. 147,282; Oct. 11.
- Christensen, John E., Chicago, Ill. Phonograph. No. 144,367; July 5; v. 288; p. 192.
- Christian Peper Tobacco Co., St. Louis, Mo. Smoking and chewing tobacco. No. 141,032; Mar. 29; v. 284; p. 951.
- Christian Peper Tobacco Co., St. Louis, Mo. Smoking and chewing tobacco. Nos. 142,472-3; May 17; v. 286; p. 625.
- Christmas Club (a corporation), New York, N. Y. Printed books, pamphlets, posters, car and advertising cards, circulars. No. 146,028; Aug. 23; v. 289; p. 791.
- Christopher, L. J., Co. Los Angeles, Calif. Marshmallows. No. 140,095; Mar. 8; v. 284; p. 364.
- Christopher, L. J., Co., Los Angeles, Calif. Rough chocolates with centers. No. 142,959; May 24; v. 286; p. 844.
- Chubbuck, William, Rockaway Beach, N. Y. Medicinal preparations. No. 141,517; Apr. 26; v. 285; p. 778.
- Chupka, Miklos, Johnstown, Pa. Soil food. No. 141,896; May 3; v. 286; p. 183.
- Church, Douglas J., New York, N. Y. Woolen and partly-woolen goods in the piece. No. 140,579; Mar. 22; v. 284; p. 744.
- Church & Dwight Company, New York, N. Y. Bicarbonate of soda, saleratus, and baking-powder. No. 142,960; May 24; v. 286; p. 844.
- Cincinnati Art Publishing Company, The, Cincinnati, Ohio. Art picture-cards. No. 140,347; Mar. 15; v. 284; p. 580.
- Cincinnati Ball Crank Co., The, Cincinnati, Ohio. Stabilizers, drag-links for vehicle steering-gears, and bumpers. No. 146,636; Sept. 13; v. 290; p. 426.
- Cincinnati Chemical Works, Inc., Cincinnati, Ohio. Dye-stuffs. No. 147,957; Nov. 8.
- Cincinnati Soap Company, The, Cincinnati, Ohio. Soap. No. 139,508; Feb. 8; v. 283; p. 350.
- Cincinnati Storage Battery Company, Cincinnati, Ohio. Electric batteries. No. 146,444; Sept. 6; v. 290; p. 209.
- Cincinnati Tool Co., The, Norwood, Ohio. Hand-clamps. No. 140,773; Mar. 29; v. 284; p. 942.
- Cincinnati Wall Paper Company, Cincinnati, Ohio. Wallpaper. No. 143,570; June 7; v. 287; p. 182.
- Cinderella Heel Corporation, St. Louis, Mo. Liquid shoe-enamel. No. 147,958; Nov. 8.
- Cinderella Heel Corporation, St. Louis, Mo. Metal heels and tread-lifts therefor. No. 149,880; Dec. 27.
- Ciro Pearls Ltd., London, England. Imitation pearls and reconstructed gems. No. 147,959; Nov. 8.
- Cirola Phonograph Corporation, Philadelphia, Pa. Phonographs. No. 146,195; Sept. 6; v. 290; p. 198.
- Cisneros & Co., Inc., New York, N. Y., and Rahway, N. J. Wheat-flour. No. 142,249; May 10; v. 286; p. 403.
- Cisneros & Co., Inc., New York, N. Y., and Rahway, N. J. Wheat-flour. Nos. 142,961-4; May 24; v. 286; p. 844.
- Cisneros & Co. Inc., New York, N. Y., and Rahway, N. J. Wheat-flour. No. 147,963; Nov. 8.
- Citizens' Wholesale Supply Company, The, Columbus, Ohio. Shaving-cream in the form of soap paste. No. 143,303; May 31; v. 286; p. 1048.
- Citizens' Wholesale Supply Co., The, Columbus, Ohio. Marshmallow crème and egg-powder compound. No. 143,571; June 7; v. 287; p. 182.
- Citizens Wholesale Supply Company, The, Columbus, Ohio. Black and red inks. No. 145,061; July 26; v. 288; p. 812.
- Citizens' Wholesale Supply Company, The, Columbus, Ohio. Filter, paraffin-wax, and toilet papers. No. 146,196; Sept. 6; v. 290; p. 198.
- Citizens Wholesale Supply Co., Columbus, Ohio. Cleanser, sanitary dish-washing compound, soap flakes, &c. No. 147,961; Nov. 8.
- City Ice Delivery Company, Cleveland, Ohio. Ginger-ale. No. 141,096; Apr. 12; v. 285; p. 380.
- City Mills Company, Columbus, Ga. Cornmeal. No. 139,070; Jan. 18; v. 282; p. 558.
- City Mills Company, Columbus, Ga. Wheat-flour, and particularly self-rising wheat-flour. No. 147,962; Nov. 8.
- City Mills Company, Columbus, Ga. Self-rising wheat-flour. No. 149,631; Dec. 20.
- Claassen, Arthur, Jr., Philadelphia, Pa., assignor to Claassen, Murfit & Co., Inc., Philadelphia, Pa. Anhydrous soap. No. 139,272; Feb. 1; v. 283; p. 168.
- Clack, H. Earl, Company, Havre, Mont. Motor-oils. No. 141,897; May 3; v. 286; p. 183.
- Clapp Products Company, Boston, Mass. Sulfur-terpene compounds and solutions. No. 146,071; Aug. 30; v. 289; p. 1013.
- Claremont Marl Products Company Inc., Claremont, Va. Marl lime for acid-soil treatment. No. 141,518; Apr. 26; v. 285; p. 778.
- Clarendon Refining Company, Clarendon borough, Pa. Petroleum and petroleum jelly. No. 139,273; Feb. 1; v. 283; p. 168.



*Alphabetical list of registrants of trade-marks—Continued.*

- Clarinda Lawn Mower Company, Clarinda, Iowa. Laundry-washing machines and wringers. No. 140,293; Mar. 8; v. 284; p. 370.
- Clark, A. L., & Co., Inc., New York, N. Y. Hand-needles. No. 141,899; May 3; v. 286; p. 183.
- Clark, Abner C., Worcester, Mass. Ointment or massage cream. No. 144,368; July 5; v. 288; p. 192.
- Clark, D. L., Company, The, Pittsburgh, Pa. Confection. No. 141,888; May 3; v. 286; p. 183.
- Clark's, Dr., Chemical Laboratories Inc., Chicago, Ill. Belt-dressing. No. 139,274; Feb. 1; v. 283; p. 168.
- Clark Fiber Products Corporation, Hartsdale, N. Y. Molded fiber in sheet form. No. 141,337; Apr. 19; v. 285; p. 566.
- Clark, Frank W., Los Angeles, Calif. Foot powder and deodorant. No. 146,197; Sept. 6; v. 290; p. 198.
- Clark, Geo. B., Co., Inc., The, Bridgeport, Conn. Phonographs. No. 143,304; May 31; v. 286; p. 1048.
- Clark, W. N., Co., Rochester, N. Y. Canned fruits and vegetables. No. 144,736; July 19; v. 288; p. 616.
- Clarke, Charles F., Madison, Wis. Feeding attachment for use with ordinary pens. No. 141,898; May 3; v. 286; p. 183.
- Clarke, Frederick, Chicago, Ill. Cigars and cigarettes. No. 141,180; June 28; v. 287; p. 773.
- Clarke, J. Q., Tank Company, Crawfordsville, Ind. Stock and poultry water-fonts and stock and poultry feed-hoppers. No. 140,348; Mar. 15; v. 284; p. 580.
- Clarke, Madam M. G., Cleveland, Ohio. Certain preparations for the hair. No. 149,568; Dec. 13.
- Clayton Company, Inc., The, New York, N. Y. Automobile-bodies, carriages and wagons, &c. No. 143,305; May 31; v. 286; p. 1048.
- Clayton Mfg. Co., Bristol, Conn. Shears and scissors. No. 146,198; Sept. 6; v. 290; p. 198.
- Clayton-Wright Ltd., Birmingham, England. View-mirrors and windshields for use with cycles and motor-vehicles. No. 145,209; July 26; v. 288; p. 816.
- Cleage & Company, Tulsa, Okla., and St. Louis, Mo. Lubricating-oils and gasoline. No. 140,349; Mar. 15; v. 284; p. 580.
- Clearwater, H. P., Hallowell, Me. Pharmaceutical preparation. No. 145,501; Aug. 2; v. 289; p. 184.
- Clearwater, H. P., Hallowell, Me. Pharmaceutical preparation for certain purposes. No. 147,963; Nov. 8.
- Clearwater, H. P., Hallowell, Me. Treatment for piles and hemorrhoids. No. 148,379; Nov. 15.
- Cleaver Manufacturing Company, Pendleton, Oreg. Coal-tar paint for roofs, &c. No. 144,369; July 5; v. 288; p. 192.
- Clements, Fred W., Rochester, N. Y. Palliative for pyorrhea alveolaris or Riggs' disease. No. 145,630; Aug. 16; v. 289; p. 592.
- Clements, Fred W., Rochester, N. Y. Antiseptic, germicidal, and anodyne oil. No. 147,083; Oct. 4.
- Clements, Fred W., Rochester, N. Y. Tooth-powder. No. 147,084; Oct. 4.
- Clements, Judson A., Jacksonville, Fla. Medicinal preparation. No. 140,096; Mar. 8; v. 284; p. 364.
- Cleveland, Alfred E., Cambridge, Mass. Toilet soap. No. 144,181; June 28; v. 287; p. 773.
- Cleveland Dental Manufacturing Company, The, Cleveland, Ohio. Dental instruments. No. 148,380; Nov. 15.
- Cleveland Electric Machine & Mfg. Co., The, Cleveland, Ohio. Machines for operating on food products. No. 140,264; Mar. 8; v. 284; p. 370.
- Cleveland Flux Company, The, Cleveland, Ohio. Mineral fluxes. No. 146,072; Aug. 30; v. 289; p. 1013.
- Cleveland Metal Products Company, The, Cleveland, Ohio. Fluid-fuel cook-stoves. No. 141,033; Mar. 29; v. 284; p. 952.
- Cleveland Metal Products Company, The, Cleveland, Ohio. Fluid-fuel heating-stoves. No. 141,034; Mar. 29; v. 284; p. 952.
- Cleveland Metal Products Company, Cleveland, Ohio. Oven for stoves. No. 141,035; Mar. 29; v. 284; p. 952.
- Cleveland Motorcycle Manufacturing Co., Cleveland, Ohio. Motorcycles. No. 140,032; Mar. 1; v. 284; p. 176.
- Cleveland Pneumatic Tool Company, The, Cleveland, Ohio. Pneumatic tools and compressed-air machinery. No. 141,738; Apr. 26; v. 285; p. 786.
- Cleveland & Sandusky Brewing Company, The, Cleveland, Ohio. Maltless beverage. No. 147,964; Nov. 8.
- Cleveland Tractor Company, The, Euclid, Ohio. Periodical publications which are now published monthly. No. 141,095; Apr. 12; v. 285; p. 380.
- Cleveland Tractor Company, The, Euclid, Ohio. Internal-combustion engines. No. 147,965; Nov. 8.
- Cleveland Twist Drill Co., The, Cleveland, Ohio. Reamers of all kinds. No. 144,106; June 21; v. 287; p. 586.
- Cleveland Twist Drill Co., Cleveland, Ohio. Screw-tractors. No. 144,107; June 21; v. 287; p. 586.
- Cleveland Waterproof Paper Company, The, Cleveland, Ohio. Moisture-proof, paraffin, and wax papers. No. 142,965; May 24; v. 286; p. 844.
- Cleves, William B., Washington, D. C. Laxative medicine. No. 141,098; Apr. 12; v. 285; p. 380.
- Clifton Mfg. Company, Waco, Tex. Tents, awnings, paulins, tarpaulins, wagon-covers. Nos. 147,045-51; Sept. 27; v. 290; p. 807.
- Climax Molybdenum Company, Wilmington, Del., and New York, N. Y. Ferromolybdenum. No. 144,370; July 5; v. 288; p. 192.
- Cling-Surface Company, Buffalo, N. Y. Dressings for power-transmission belts. No. 147,283; Oct. 11.
- Clinton, A. B., Company, The, New Haven, Conn. Needles for sound-reproducing machines. No. 149,361; Dec. 13.
- Clip Bar Manufacturing Co., Philadelphia, Pa. Ratchet-wrenches. No. 144,108; June 21; v. 287; p. 586.
- Clipper Lawn Mower Company, Dixon, Ill. Mowers, lawnmowers, and repair parts therefor. No. 149,569; Dec. 13.
- Clode, Edward J., New York, N. Y. Printed books published in series. No. 143,306; May 31; v. 286; p. 1048.
- Clover Creamery Company Inc., Roanoke, Va. Ice-cream. No. 144,182; June 28; v. 287; p. 773.
- Clover Products Corporation, Los Angeles, Calif. Perfumes and incense in solid form. No. 147,085; Oct. 4.
- Cloverland Apiaries Co., Wausau, Wis. Honey. No. 141,519; Apr. 26; v. 285; p. 778.
- Clover, Joseph B., Woodstock, Va. Remedy for corns. No. 142,966; May 24; v. 286; p. 844.
- Cluett, Peabody & Co., Inc., Troy, N. Y. Collars. No. 138,755; Jan. 4; v. 282; p. 191.
- Cluett, Peabody & Co. Inc., Troy, N. Y. Dress, negligée, and work shirts. Nos. 140,774-5; Mar. 29; v. 284; p. 942.
- Cluett, Peabody & Co., Inc., Troy, N. Y. Handkerchiefs. No. 146,199; Sept. 6; v. 290; p. 198.
- Cluett, Peabody & Co. Inc., Troy, N. Y. Handkerchiefs. No. 147,966; Nov. 8.
- Clyde Milling & Elevator Co., The, Clyde, Kans. Wheat-flour. No. 145,336; Aug. 2; v. 289; p. 178.
- Coal Tar Products, Inc., Chicago, Ill. Disinfectant, and particularly a solidified soluble coal-tar-derivative disinfectant. No. 145,631; Aug. 16; v. 289; p. 592.
- Coast Tire and Rubber Company, Oakland, Calif. Rubber tires. No. 149,652; Dec. 20.
- Cochran, John M., near Graysville, Ohio. Pharmaceutical preparation. No. 140,776; Mar. 29; v. 284; p. 942.
- Cochrane, W. C., Co., Inc., Buffalo, N. Y. Ready-mixed paints, putty, paint-oils, &c. No. 139,123; Jan. 25; v. 282; p. 733.
- Cockill, Henry F., & Sons Limited, Whitcliffe, Cleckheaton, England. Leather and balata beltings. No. 145,337; Aug. 2; v. 289; p. 178.
- Coco Soap Company, The, Denver, Colo. Soap. No. 143,307; May 31; v. 286; p. 1048.
- Cocoa Products Co., The, Holland, Mich. Prepared cocoa powder. No. 141,900; May 3; v. 286; p. 183.
- Coe & Hill, Oklahoma, Okla. Water. No. 146,969; Sept. 27; v. 290; p. 804.
- Coe Mortimer Co., New York, N. Y. Fertilizers. No. 143,098; May 24; v. 286; p. 849.
- Coe-Mortimer Company, The, New York, N. Y. Fertilizers. No. 149,881; Dec. 27.
- Coffee Dan's, Inc., Detroit, Mich. Coffee. No. 146,200; Sept. 6; v. 290; p. 198.
- Coger, Tucker and Cheney, Inc., Corning, N. Y. Self-rising pancake-flour. No. 146,073; Aug. 30; v. 289; p. 1013.
- Cohan, Abner, Brooklyn, N. Y. Men's, women's, and children's hats. No. 149,308; Dec. 6.
- Cohan, Emmanuel M., New York, N. Y. Waists and dresses. No. 141,338; Apr. 19; v. 285; p. 566.
- Cohan, Emmanuel M., New York, N. Y. Waists and dresses. No. 141,351; Apr. 19; v. 285; p. 566.
- Cohen, Abraham, Baltimore, Md. Cooking and shortening compound. No. 146,201; Sept. 6; v. 290; p. 198.
- Cohen & Ehrenberg, New York, N. Y. Woolen piece goods. No. 147,204; Oct. 4.
- Cohen, Endel & Co., New York, N. Y. Boys' suits. No. 144,725; July 19; v. 288; p. 616.
- Cohen, Goldman & Co., Inc., New York, N. Y. Articles of clothing. No. 145,632; Aug. 16; v. 289; p. 592.
- Cohen, Goldstein & Co., New York, N. Y. Children's rain-proof coats. No. 138,756; Jan. 4; v. 282; p. 191.
- Cohen-Gross Manufacturing Co., Denver, Colo. Women's house-dresses, aprons, overalls, &c. No. 139,275; Feb. 1; v. 283; p. 168.
- Cohen & Lang, Inc., New York, N. Y. Men's suits and overcoats. No. 140,350; Mar. 15; v. 284; p. 580.
- Cohen, Nathan B., Scranton, Pa. Hair-nets. No. 149,014; Dec. 6.
- Cohen, Philip, Atlanta, Ga. Medicinal preparations for the treatment of indigestion. No. 145,634; Aug. 16; v. 289; p. 592.
- Cohen, Syma, Chicago, Ill. Face powders and creams and rouge. No. 143,921; June 21; v. 287; p. 578.
- Cohn, Goldwater Co., Los Angeles, Calif. Combination one-piece working-garment. No. 142,270; May 10; v. 286; p. 404.
- Cohn Hall Marx Co., New York, N. Y. Cotton and cotton and silk mixture piece goods. No. 139,709; Feb. 15; v. 283; p. 541.
- Cohn Hall Marx Co., New York, N. Y. Cotton voile in the piece. No. 145,633; Aug. 16; v. 289; p. 592.
- Cohn, Irving M., New York, N. Y. Wireless spark-gaps and instruments. No. 140,777; Mar. 29; v. 284; p. 942.



- Cohn, Israel M., La Grange, Ill. Mouth-washes. No. 142,967; May 24; v. 286; p. 844.
- Cohn, L. A., & Bro., Chicago, Ill. Non-ferrous metals. No. 140,351; Mar. 15; v. 284; p. 580.
- Cohn & Rosenberger, Inc., New York, N. Y. Articles of jewelry. No. 141,099; Apr. 12; v. 285; p. 380.
- Coibum Manufacturing Company, Philadelphia, Pa. Vending-machines. No. 149,015; Dec. 6.
- Coibum Manufacturing Company, Philadelphia, Pa. Vending-machines. No. 149,882; Dec. 27.
- Colby Confectionery Company, Inc., The, Los Angeles, Calif. Marshmallow crème. No. 149,883; Dec. 27.
- Cole & Dumas Music Co., Chicago, Ill. Phonographs. No. 141,320; Apr. 26; v. 285; p. 778.
- Cole, H. C., Milling Co., Chester, Ill. Wheat-flour. No. 149,362; Dec. 13.
- Cole, James H., Knoxville, Tenn. Salve for congestion and inflammation, &c. No. 144,559; July 12; v. 288; p. 423.
- Cole, John N., San Francisco, Calif. Liquid antiseptic for internal and external use. No. 143,572; June 7; v. 287; p. 182.
- Cole, John N., San Francisco, Calif. Venereal prophylactic ointment. No. 144,184; June 28; v. 287; p. 773.
- Cole, John N., San Francisco, Calif. Dentifrice. No. 145,939; Aug. 23; v. 289; p. 787.
- Cole Manufacturing Company, Memphis, Tenn. Sash, door, and window frames, newel-posts, &c. No. 141,901; May 3; v. 286; p. 183.
- Cole, Oron P., Dover, N. J. Peppermint candies. No. 143,573; June 7; v. 287; p. 182.
- Cole Publishing Company, The, Cleveland, Ohio. Weekly publication. No. 149,016; Dec. 6.
- Cole, Walter B., New York, N. Y. Taxicabs and pleasure-automobiles. No. 148,366; Nov. 15.
- Cole, William A., Paper Company, Putney, Vt. Toilet-paper. No. 144,723; July 19; v. 288; p. 616.
- Coleman and Company, Limited, Norwich, England. Medicinal tonics. No. 141,521; Apr. 26; v. 285; p. 778.
- Coleman and Company, Limited, Norwich, England. Non-alcoholic maltless beverage. No. 146,970; Sept. 27; v. 290; p. 804.
- Coleman Lamp Company, The, Wichita, Kans. Vapor-lamps, lanterns, and parts thereof. No. 140,701; Mar. 22; v. 284; p. 749.
- Coleman Lamp Company, The, Wichita, Kans. Lamps and lanterns, lighting plants and systems, urn-burners, and gas-generators. No. 142,359; May 10; v. 286; p. 407.
- Coleman Lamp Company, The, Wichita, Kans. House magazine published monthly. No. 149,017; Dec. 6.
- Colgate & Co., Jersey City, N. J., and New York, N. Y. Hair-tonics. No. 144,990; July 19; v. 288; p. 626.
- Colgate & Company, Jersey City, N. J. Soaps. No. 139,710; Feb. 15; v. 283; p. 541.
- Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. No. 141,339; Apr. 19; v. 285; p. 566.
- Colgate & Company, Jersey City, N. J. Soap powder for shaving. No. 142,360; May 10; v. 286; p. 407.
- Colgate & Company, Jersey City, N. J. Preparation for cleaning, brightening, and polishing silver and other metals. No. 142,361; May 10; v. 286; p. 407.
- Colgate & Company, Jersey City, N. J. Soaps. Nos. 143,793-4; June 7; v. 287; p. 190.
- Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. No. 144,724; July 19; v. 288; p. 616.
- Colgate & Company, Jersey City, N. J. Soaps. No. 145,635; Aug. 16; v. 289; p. 592.
- Colgate & Company, Jersey City, N. J. Soaps. No. 147,284; Oct. 11.
- Colgate & Company, Jersey City, N. J. Soaps. Nos. 148,800-3; Nov. 29.
- Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. Nos. 149,884-7; Dec. 27.
- Colgate & Company, Jersey City, N. J. Soaps. Nos. 149,888; Dec. 27.
- Colgate & Company, Jersey City, N. J. Soaps. No. 150,192; Dec. 27.
- Collene Laboratories, Inc., The. (See Govett, E., assignor.)
- Collier, P. F., & Son Company, New York, N. Y. Series of books. Nos. 146,029-30; Aug. 23; v. 289; p. 791.
- Collier, Virginia W., Pontiac, Mich. Portable dressing-tents. No. 139,071; Jan. 18; v. 282; p. 558.
- Collings, Estella, Mrs., El Reno, Okla. Toilet preparations and a laundry bluing. No. 140,778; Mar. 29; v. 284; p. 942.
- Collins, A. M., Manufacturing Company, Philadelphia, Pa. Publications issued monthly. No. 144,726; July 19; v. 288; p. 616.
- Collins, A. M., Manufacturing Company, Philadelphia, Pa. Publications issued monthly. No. 149,653; Dec. 20.
- Collins, B. A., & Co. Inc., Springfield, Mass. Infants' and children's dresses and rompers. No. 140,580; Mar. 22; v. 284; p. 744.
- Collins, Clarence E., St. Louis, Mo. Chemical compound introduced into boiler-water to prevent scales, &c. No. 141,904; May 3; v. 286; p. 183.
- Collins, Clyde Company, The, Memphis, Tenn. Certain tonics. No. 146,968; Sept. 27; v. 290; p. 803.
- Collins Company, The, Collinsville, Conn. Hand-tools. No. 145,062; July 26; v. 288; p. 812.
- Collins Flour Mills, Pendleton, Oreg. Wheat-flour. No. 141,522; Apr. 26; v. 285; p. 778.
- Collins, George W., Wilmington, Del. Tire-repair composition. No. 144,727; July 19; v. 288; p. 616.
- Collins-Hencke Candy Co., San Francisco, Calif. Candy. No. 139,276; Feb. 1; v. 283; p. 168.
- Collins, Horace M., Los Angeles, Calif. Liquid compound for rheumatism and muscular pain. No. 143,923; June 21; v. 287; p. 578.
- Collins, Lawrence A., Los Angeles, Calif. Laxative. No. 149,018; Dec. 6.
- Collis Products Company, Clinton, Iowa. Powdered buttermilk. No. 149,363; Dec. 13.
- Colonial Biscuit Company, The, Philadelphia, Pa. Cakes. No. 146,971; Sept. 27; v. 290; p. 804.
- Colonial Ice Cream Co., Philadelphia, Pa. Ice-cream. No. 142,474; May 17; v. 286; p. 625.
- Colonial Salt Company, Akron, Ohio. Salt. No. 141,036; Mar. 29; v. 284; p. 952.
- Colonial Salt Company, The, Akron, Ohio. Salt. No. 146,202; Sept. 6; v. 290; p. 198.
- Colonial Works, Brooklyn, N. Y. Paints, varnishes, floor-wax, &c. No. 141,902; May 3; v. 886; p. 183.
- Colonial Works, Brooklyn, N. Y. Paste paints. No. 141,903; May 3; v. 286; p. 183.
- Colorado Milling & Elevator Company, The, Denver, Colo., and Burley, Idaho. Self-rising wheat-flour. No. 145,063; July 26; v. 288; p. 812.
- Colorado Milling & Elevator Company, The, Denver and Eaton, Colo. Wheat-flour. No. 145,636; Aug. 16; v. 289; p. 592.
- Colorado Milling & Elevator Company, The, Denver, Colo., and Weiser, Idaho. Wheat-flour. No. 146,203; Sept. 6; v. 290; p. 198.
- Colorado Packing Corporation, Canon City, Colo. Canned fruits and tomatoes. No. 141,340; Apr. 19; v. 285; p. 566.
- Colton Brothers Company, The, Bellefontaine, Ohio. Self-rising flour. No. 140,779; Mar. 29; v. 284; p. 942.
- Columbia Carbon Company, The, Dayton, Ohio. Carbon-sheets. No. 141,739; Apr. 26; v. 285; p. 786.
- Columbia Dairy Products Company, Inc., Vancouver, Wash. Ice-cream and butter. No. 147,569; Oct. 25.
- Columbia Graphophone Company, New York, N. Y. Furniture-polish. No. 144,729; July 19; v. 288; p. 616.
- Columbia Graphophone Manufacturing Co., Bridgeport, Conn. Phonographic sound recording and reproducing mechanism, &c. No. 144,560; July 12; v. 288; p. 423.
- Columbia Motors Company, The, Detroit, Mich. Motor-vehicles. No. 145,637; Aug. 16; v. 289; p. 592.
- Columbia Perfume Company, Pittsburgh, Pa. Hair-cream. No. 140,780; Mar. 29; v. 284; p. 942.
- Columbia Powder Puff Co., New York, N. Y. Powder-puffs. No. 148,643; Nov. 22.
- Columbia Ribbon Co., The, Paterson, N. J. Ribbon in the piece. No. 144,309; June 28; v. 287; p. 779.
- Columbia Ribbon Co., The, Paterson, N. J. Hatbands, skirt and dress beltings, pump-bows, &c. No. 147,570; Oct. 25.
- Columbia Ribbon & Carbon Mfg. Co., New York, N. Y. Cotton and silk fabrics in the piece and strip form. No. 145,338; Aug. 2; v. 289; p. 178.
- Columbia Ribbon & Carbon Mfg. Co., New York, N. Y. Typewriter-ribbons. No. 145,884; Aug. 16; v. 289; p. 601.
- Columbia Ribbon & Carbon Mfg. Co., New York, N. Y. Typewriter-ribbons and carbon-paper. No. 149,570; Dec. 13.
- Columbian Rope Co., Auburn, N. Y. Rope, twine, and cordage of vegetable fiber. No. 144,518; July 5; v. 288; p. 198.
- Columbian Rope Company, Auburn, N. Y. Plain-laid three or four strand rope made from Manila, sisal, &c. No. 142,475; May 17; v. 286; p. 625.
- Columbian Rope Company, Auburn, N. Y. Rope, twine, and cordage of vegetable fiber. No. 148,573; Nov. 15.
- Columbus McKinnon Chain Company, The, Columbus, Ohio. Tire-chains. No. 141,523; Apr. 26; v. 285; p. 778.
- Columbus McKinnon Chain Company, The, Columbus, Ohio. Chains. No. 148,804; Nov. 29.
- Columbus Polish Mfg. Co., Inc., New York, N. Y. Shoe-polishes. No. 144,728; July 19; v. 288; p. 616.
- Com-Bah Fibroid Company, Boston, Mass. Toilet-seats. No. 147,571; Oct. 25.
- Combination Rubber Mfg. Co., The, Bloomfield, N. J. Rubber belting. No. 138,757; Jan. 4; v. 282; p. 191.
- Comet Automobile Company, Decatur, Ill. Automobiles and motor-trucks. No. 140,100; Mar. 8; v. 284; p. 364.
- Comfort Garment Company, Pittsburgh, Pa. Infants' underwaists. No. 140,781; Mar. 29; v. 284; p. 942.
- Comfort Powder Co., Inc., The. (See Comfort Powder Company, The, assignor.)
- Comfort Powder Company, The, Hartford, Conn. Powder for the toilet, nursery, and similar purposes. No. 19,977. Renewed Aug. 4, 1921, to The Comfort Powder Co., Inc.
- Commercial Aeroplane Wine Syndicate Limited, The, London, England. Aeroplanes and certain named parts thereof. No. 143,574; June 7; v. 287; p. 182.
- Commercial Creamery Company, Spokane, Wash. Condensed buttermilk. No. 149,889; Dec. 23.



*Alphabetical list of registrants of trade-marks—Continued.*

- Commercial Excelite Co., Inc., Baltimore, Md. Electric-lighting fixtures. No. 145,339; Aug. 2; v. 289; p. 178.
- Commercial Importing Company, Inc., Seattle, Wash. Baking-powder. No. 138,597; Jan. 4; v. 282; p. 186.
- Commercial Newspaper Company, New York, N. Y. Manual or publication issued at intervals. No. 147,285; Oct. 11.
- Commercial Radio Co. of America, Providence, R. I. Electric coils. No. 145,340; Aug. 2; v. 289; p. 178.
- Commercial Trading Company, Boston, Mass. Certain articles of clothing. Nos. 146,712-15; Sept. 20; v. 290; p. 632.
- Commercial Union of America, Incorporated, New York, N. Y. Wheat-flour. No. 144,732; July 19; v. 288; p. 616.
- Commercial Union of America, Incorporated, New York, N. Y. Wheat-flour. Nos. 147,572-3; Oct. 25.
- Commercial Union of America, Incorporated, New York, N. Y. Wheat-flour. No. 148,644; Nov. 22.
- Commodore Shirt Co. Inc., New York, N. Y. Dress, negligee, and work shirts for men. No. 140,581; Mar. 22; v. 284; p. 744.
- Common Sense Gum Company, New York, N. Y. Chewing-gum. No. 146,638; Sept. 13; v. 290; p. 426.
- Commonwealth Chemical Corporation, Jersey City, N. J., and New York, N. Y. Camphor substitute for use in making celluloid. No. 138,797; Jan. 11; v. 282; p. 376.
- Commonwealth Chemical Corporation, Jersey City, N. J., and New York, N. Y. Antiseptic and cooling powders. No. 138,957; Jan. 18; v. 282; p. 553.
- Commonwealth Cigar Co., St. Louis, Mo. Cigars. No. 146,716; Sept. 20; v. 290; p. 632.
- Commonwealth Coffee Company, New York, N. Y. Coffee. No. 139,509; Feb. 8; v. 283; p. 350.
- Commonwealth Coffee Company, New York, N. Y. Coffee. No. 144,733; July 19; v. 288; p. 616.
- Community Service (Incorporated), New York, N. Y. Printed pamphlets, circulars, and books. No. 145,548; Aug. 9; v. 289; p. 407.
- Como Chemical Co., Kokomo, Ind. Sulfate of alumina. No. 148,645; Nov. 22.
- Comparative X-Ray Company, New York, N. Y. Photographic mounts for holding X-ray films and photographic reproductions thereof. No. 147,967; Nov. 8.
- Compton, J. A., Coshocton, Ohio. Phonographs. No. 144,310; June 28; v. 287; p. 780.
- Computing Cheese Cutter Co., Anderson, Ind. Computing cheese-cutters. No. 138,897; Jan. 11; v. 282; p. 379.
- Conard, Frederick D., Philadelphia, Pa. Boiler and radiator preparation. No. 139,277; Feb. 1; v. 283; p. 168.
- Conard, G. W., & Company, Philadelphia, Pa. Preparation to prevent deposit of moisture on glass. No. 147,286; Oct. 11.
- Condé, Harry L., Syracuse, N. Y. Long rope swings and sand-beach carts. No. 139,124; Jan. 25; v. 282; p. 733.
- Coudurier, Fructus et Descher, Lyon, France. Piece goods of silk, wool, linen, cotton, and china-grass. Nos. 143,575-7; June 7; v. 287; p. 182.
- Cone Company of America, New York, N. Y. Ice-cream cones. No. 145,341; Aug. 2; v. 289; p. 178.
- Confectionery Ingredients, Limited, London, England. Antipyretic remedy for human use. No. 142,968; May 24; v. 286; p. 845.
- Congress Cigar Company, Philadelphia, Pa. Cigars. No. 149,573; Dec. 13.
- Conklin, Horace E., Binghamton, N. Y. Timothy-seed. No. 145,064; July 26; v. 288; p. 812.
- Conklin Pen Manufacturing Co. Inc., Toledo, Ohio. Fountain-pens. No. 147,763; Nov. 1.
- Conley Foil Company, The, New York, N. Y. Metallic sheets for making molds or matrices. No. 139,778; Feb. 22; v. 283; p. 752.
- Conley Foil Company, The, New York, N. Y. Metallic sheets for making molds or matrices. No. 144,734; July 19; v. 288; p. 616.
- Connecticut Electric Steel Co., The, Hartford, Conn. Tool-steel and steel castings. No. 139,510; Feb. 8; v. 283; p. 350.
- Connecticut Pop Corn Co., Norwich, Conn. Popcorn confection. No. 138,598; Jan. 4; v. 282; p. 186.
- Conner & Co., Portland, Oreg. Table-syrup, molasses, and honey. No. 138,599; Jan. 4; v. 282; p. 186.
- Connelly, John, Barberton, Ohio. Liniment for rheumatism, &c. No. 140,782; Mar. 29; v. 284; p. 942.
- Connolly, Fred W., Boston, Mass. Non-alcoholic, non-cereal, maltless beverage and syrup for making same. No. 140,098; Mar. 8; v. 284; p. 364.
- Conrad Chemical Co., Chicago, Ill. Dye in soap form. No. 144,519; July 5; v. 288; p. 198.
- Conrad Wilkey & Co., Casper, Wyo. Tire-patches. No. 147,433; Oct. 11.
- Consolidated Belting Company, Philadelphia, Pa. Leather belting. No. 138,798; Jan. 11; v. 282; p. 376.
- Consolidated Packing & Supply Co., New York, N. Y. Sheet-packing and gaskets made of vegetable fiber. No. 142,251; May 10; v. 286; p. 403.
- Consolidated Rendering Co., Boston, Mass. Grease for soap-making. No. 147,725; Oct. 25.
- Consolidated Tool Works, Inc., New York, N. Y. Calipers and dividers, combination-squares and rules for measuring purposes, measuring-tapes. No. 141,341; Apr. 19; v. 285; p. 566.
- Consolidated Tool Works, Inc., New York, N. Y. Hammers, hatchets, files, hand saws, ice-picks, &c. No. 148,805; Nov. 29.
- Consumers Biscuit Co., New Orleans, La. Mixed biscuits. No. 146,445; Sept. 6; v. 290; p. 209.
- Consumers Brewing Company, Philadelphia, Pa. Cereal beverages. No. 141,345; Apr. 19; v. 285; p. 566.
- Continental Auto Parts Company, Knightstown, Ind.; San Francisco, Calif., and New York, N. Y. Machinery and tools. No. 138,898; Jan. 11; v. 282; p. 380.
- Continental Auto Parts Company, Knightstown, Ind.; San Francisco, Calif., and New York, N. Y. Shock-absorbers, foot-rests, running-board supports, &c. No. 139,927; Feb. 22; v. 283; p. 758.
- Continental Candy Corporation, Chicago, Ill. Candy. No. 149,890; Dec. 27.
- Continental Candy Mfg. Co., Brooklyn, N. Y. Chocolates, hard candies, and glacé fruits. No. 147,968; Nov. 8.
- Continental Chemical Corporation. (See Longshore, Jas. H., assignor.)
- Continental Chemical Corporation, Watseka, Ill. Germicide, bactericide, &c. No. 139,125; Jan. 25; v. 282; p. 733.
- Continental Coffee Company, The, Wichita, Kans. Coffee. No. 139,279; Feb. 1; v. 283; p. 168.
- Continental Distributing Company, New York, N. Y. Wines. No. 139,511; Feb. 8; v. 283; p. 350.
- Continental Gin Co., Birmingham, Ala. Cotton gins, cotton presses, and distributors, lint-flues, &c. No. 146,204; Sept. 6; v. 290; p. 198.
- Continental Gin Co., Birmingham, Ala. Cotton-gins and accessories therefor and cotton-presses. No. 147,287; Oct. 11.
- Continental Mfg. Co., Indianapolis, Ind. Floor-oils. No. 147,435; Oct. 11.
- Continental Mills, Inc., Philadelphia, Pa. Jersey cloth. No. 147,843; Nov. 1.
- Continental Paper Bag Co., New York, N. Y. Sacks or bags made of paper. No. 141,905; May 3; v. 286; p. 183.
- Continental Paper & Bag Mills, New York, N. Y. Paperbags, egg-cartons, and merchandise-envelops. No. 149,891; Dec. 27.
- Continental Rubber Co., Philadelphia, Pa. Rubber tire and tube repairs. No. 147,480; Oct. 18.
- Continental Serum Laboratories Co., Muscatine, Iowa. Worm medicine for swine. No. 142,970; May 24; v. 286; p. 845.
- Continental Varnish Company, Inc., Brooklyn, N. Y. Paint enamel. No. 142,476; May 17; v. 286; p. 625.
- Continental Varnish Company, Inc., Brooklyn, N. Y. Paint enamels and finishes. No. 142,477; May 17; v. 286; p. 625.
- Continental Varnish Company, Inc., Brooklyn, N. Y. Varnishes and paint enamels. No. 142,478; May 17; v. 286; p. 625.
- Continental Varnish Company, Inc., Brooklyn, N. Y. Varnish. No. 142,479; May 17; v. 286; p. 625.
- Continental Varnish Company, Inc., Brooklyn, N. Y. Paint enamels and varnishes. No. 142,480; May 17; v. 286; p. 625.
- Converse, Morton E., and Son Co., Winchendon, Mass. Toys. No. 144,185; June 28; v. 287; p. 773.
- Converse Rubber Shoe Company, The, Malden, Mass. Rubber vehicle-tires and tubes therefor. No. 140,582; Mar. 22; v. 284; p. 744.
- Converse Treatment Co., The, Columbus, Ohio. Medicine intended for use in epilepsy and other nervous disorders. No. 147,086; Oct. 4.
- Convortex Corporation, The, New York, N. Y. Cotton suitings and cotton suitings with linen finish. No. 139,779; Feb. 22; v. 283; p. 752.
- Convortex Corporation, The, New York, N. Y. Printed and woven cotton piece fabrics and cotton piece textiles. No. 147,969; Nov. 8.
- Cook, Charles L., Menominee, Mich. Canned goods, cat-soup, pickles, &c. No. 146,446; Sept. 6; v. 290; p. 209.
- Cook, Charles K., Incorporated, Camden, N. J. Pocket-books, card and ticket cases, handbags, portfolios, &c. No. 145,638; Aug. 16; v. 289; p. 592.
- Cook, Geo. C., & Co., Inc., New York, N. Y. Remedy for certain ailments. No. 145,639; Aug. 16; v. 289; p. 592.
- Cook, H. C., Co., Ansonia, Conn. Nail-clippers. No. 149,571; Dec. 13.
- Cook, Harry A., Yakima, Wash. Adhesive cement. No. 149,892; Dec. 27.
- Cook, Ida R., St. Louis, Mo. Cold and vanishing cream, rouge, and foot-relief in form of a massage-cream. No. 146,972; Sept. 27; v. 290; p. 804.
- Cook, J. J., Chemical Co., Milwaukee, Wis. Preparation for preventing misting of windows and windshields. No. 145,255; July 26; v. 288; p. 821.
- Cook Paint & Varnish Company, Kansas City, Mo. Varnish. Nos. 147,574-6; Oct. 25.
- Cook-Welker-Hire Co., Fort Wayne, Ind. Assorted hard and cream candies, chocolates, and candy-bar goods. No. 146,074; Aug. 30; v. 289; p. 1013.
- Cooke, Thomas G., Chicago, Ill. Printed booklets and pamphlets. Nos. 149,760-1; Dec. 20.
- Cooley Mfg. Co. Inc., New York, N. Y. Cartridge-fuses, fuse-plugs, and dynamo and motor brushes. No. 148,381; Nov. 15.



- Coon, Edward W., Philadelphia, Pa. Cheese. No. 147,970; Nov. 8.
- Coon, Neva C., Washington, D. C. Wrinkle-eradicator and muscle-builder and a hair-tonic and dandruff cure. No. 143,922; June 21; v. 287; p. 578.
- Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Drills, chevots, shirtings, and cottonades in the piece. Nos. 139,445-6; Feb. 1; v. 283; p. 174.
- Cooper Coate & Casey Dry Goods Co., Los Angeles, Calif. Boys' wash-suits, children's dresses, &c. No. 141,100; Apr. 12; v. 285; p. 380.
- Cooper Coate & Casey Dry Goods Co., Los Angeles, Calif. Children's wash, silk, and wool dresses. No. 141,524; Apr. 26; v. 285; p. 778.
- Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Misses' and children's dresses. No. 145,640; Aug. 16; v. 289; p. 592.
- Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Bleached muslin in the piece. Nos. 149,019-20; Dec. 6.
- Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Bleached muslin in the piece, sheets, pillow-cases. No. 149,654; Dec. 20.
- Cooper & Cooper, Inc., New York, N. Y. Certain pigments and colors, putty, &c. No. 149,364; Dec. 13.
- Cooper & Cooper, Inc., New York, N. Y. Chemical, medicinal, and pharmaceutical preparations. No. 149,893; Dec. 27.
- Cooper, Daniel P., Groveton, Tex. Hair-tonic. No. 141,907; May 3; v. 286; p. 183.
- Cooper, Frank J., San Francisco, Calif. Filing-folder for retaining miscellaneous articles. No. 140,783; Mar. 29; v. 284; p. 942.
- Cooper Manufacturing Company, Marshalltown, Iowa. Wheel-pullers, metal braces for machinery, and muffler-cut-out outfits and parts thereof. No. 140,265; Mar. 8; v. 284; p. 370.
- Cooper Underwear Company, Kenosha, Wis. Men's, women's, and children's underwear. No. 139,447; Feb. 1; v. 283; p. 174.
- Cooper, William R., Dayton, Ohio. Pharmaceutical preparations. No. 140,784; Mar. 29; v. 284; p. 943.
- Co-Operative Producenten Handelsvereinig. Gouda and The Hague, Netherlands. Cheese. No. 139,126; Jan. 25; v. 282; p. 733.
- Co-Operative Drug Company, Inc., Philadelphia, Pa. Shaving-cream and hard-water soap. No. 141,101; Apr. 12; v. 285; p. 380.
- Copeland, Merrell S., Oelwein, Iowa. Chewing-gum. No. 146,205; Sept. 6; v. 290; p. 198.
- Coppock, Thomas A., Los Angeles, Calif. Cleansing fluid for woodwork, furniture, brick, &c. No. 139,127; Jan. 25; v. 282; p. 733.
- Copymakers Corporation, The, Springfield, Mass. Photographic, mimeographic, mechanical, and typographic reproductions. No. 140,352; Mar. 15; v. 284; p. 580.
- Copymakers Corporation, The, Springfield, Mass. Photographic and stenciled signs. No. 142,969; May 24; v. 286; p. 845.
- Corbin, B. A., & Son Co., Boston, Mass. Boots and shoes. No. 141,908; May 3; v. 286; p. 183.
- Corby Company, The, Langdon, D. C., assignor to The Fleischmann Company. Cereal extracts for use in the manufacture of bread. No. 141,525; Apr. 26; v. 285; p. 778.
- Corcoran, Thos. J., Lamp Company, The, Cincinnati, Ohio. Electric lamps. No. 140,099; Mar. 8; v. 284; p. 364.
- Corcoran-Victor Company, The, Cincinnati, Ohio. Vehicle-lamp bodies for use with electric lighting. No. 140,785; Mar. 29; v. 284; p. 943.
- Co-Rhu-Cu Medicine Company, Owensboro, Ky. Medical preparation for the treatment of rheumatism. No. 148,382; Nov. 15.
- Corkran, Hill and Company, Inc., Baltimore, Md. Oleomargarin and lard. No. 141,102; Apr. 12; v. 285; p. 380.
- Corlies, Macy & Co., Inc., New York, N. Y. Writing-papers. No. 147,971; Nov. 8.
- Cormond, François, San Francisco, Calif. Washing fluid. No. 140,702; Mar. 22; v. 284; p. 749.
- Corn Belt Farm Dailies, The, Chicago, Ill. Newspapers. No. 147,288; Oct. 11.
- Corn Belt Packing Company, Dubuque, Iowa. Lard. No. 142,481; May 17; v. 286; p. 625.
- Corn Products Refining Co., New York, N. Y. Corn-sugar. No. 146,973; Sept. 27; v. 290; p. 804.
- Corn Products Refining Co., New York, N. Y. Sugar. No. 147,577; Oct. 25.
- Corn Products Refining Co., New York, N. Y. Starch for manufacturing and laundry purposes. No. 147,972; Nov. 8.
- Corn Products Refining Co., New York, N. Y. Corn-starch. No. 149,365; Dec. 13.
- Corning Glass Works, Corning, N. Y. Glass. No. 141,342; Apr. 19; v. 285; p. 566.
- Corning Glass Works, Corning, N. Y. Glass. No. 147,052; Sept. 27; v. 290; p. 803.
- Corning International Corporation, New York, N. Y. Lubricating oils and greases. No. 148,806; Nov. 29.
- Corning International Corporation, New York, N. Y. Hoes, machetes, and axes, cold-rolled shafting. No. 149,021; Dec. 6.
- Corning International Corporation, New York, N. Y. Cotton, worsted, woolen and linen piece goods. No. 149,022; Dec. 6.
- Corning International Corporation, New York, N. Y. Tool-steels and steel bars, wire, &c. No. 149,023; Dec. 6.
- Cornwell, G. G., & Son, Inc., Washington, D. C. Coffee. No. 142,482; May 17; v. 286; p. 625.
- Cornwell, G. G., & Son, Inc., Washington, D. C. Coffee. No. 144,371; July 5; v. 288; p. 192.
- Cornwell, G. G., & Son, Washington, D. C. Candies. No. 145,940; Aug. 23; v. 289; p. 787.
- Cornwell, G. G., & Son, Inc., Washington, D. C. Spaghetti. No. 147,289; Oct. 11.
- Corona Braid Works, Corona, N. Y. Mercerized cotton, &c., soutache and shell-braids. No. 149,894; Dec. 27.
- Corona Chemical Company, Milwaukee, Wis. Insecticides. No. 138,958; Jan. 18; v. 282; p. 554.
- Corona Chemical Company, Milwaukee, Wis. General disinfectant. No. 141,909; May 3; v. 286; p. 183.
- Corona Cord Tire Company, East Butler, Pa. Automobile-tire casing and tubes composed of rubber. No. 148,807; Nov. 29.
- Corona Typewriter Co., Inc., Groton, N. Y. Typewriting-machines. No. 144,109; June 21; v. 287; p. 586.
- Cort, Henry Company, Brockton, Mass. Boots and shoes of leather or cloth and leather. No. 142,250; May 10; v. 286; p. 403.
- Cosby, W. M., Flour & Grain Co., Birmingham, Ala. Chicken and dairy feeds, laying and growing mash, horse and hog feeds. No. 146,075; Aug. 30; v. 289; p. 1013.
- Cosby, W. M., Flour & Grain Co., Birmingham, Ala. Chicken feed. No. 148,326; Nov. 8.
- Cosgrove, William B., Springfield, Mass. Chemical carbon-remover. No. 139,280; Feb. 1; v. 283; p. 168.
- Cosin, Joseph J., New York, N. Y. Powder-puffs. No. 146,447; Sept. 6; v. 290; p. 209.
- Cosin, Joseph J., New York, N. Y. Powder-puffs. No. 146,639; Sept. 13; v. 290; p. 426.
- Cosma & Figli, Milan, Lucca, and Novoli, Italy. Olive-oils. No. 139,504; Feb. 8; v. 283; p. 350.
- Cosmic Metal Company, The, Philadelphia, Pa. Bearing metal. No. 140,033; Mar. 1; v. 284; p. 176.
- Cosmos Engineering Company Limited, Bristol, England. Internal-combustion engines for aeroplanes, motor-cars, and motorcycles. Nos. 144,372-3; July 5; v. 288; p. 192.
- Costarella, Domenico, New York, N. Y. Hair-tonic. No. 143,924; June 21; v. 287; p. 578.
- Cotta Transmission Company, Rockford, Ill. Change-speed transmissions. Nos. 139,448-9; Feb. 1; v. 283; pp. 174-5.
- Cotta Transmission Company, Rockford, Ill. Change-speed transmissions. No. 142,971; May 24; v. 286; p. 845.
- Cotter, R. E., Company, San Francisco, Calif. Canned fruits, vegetables, and fish. No. 141,103; Apr. 12; v. 285; p. 380.
- Cotter Shoe Co., The, Lynn, Mass. Shoes made wholly or in part of leather. No. 149,024; Dec. 6.
- Cotto Waxo Co., St. Louis, Mo. Poultry-tonics. No. 146,718; Sept. 20; v. 290; p. 632.
- Cotton Industrial Corporation, New York, N. Y., and Albany, Ga. Boll-weevil spray. No. 141,910; May 3; v. 286; p. 183.
- Coty, François J. de S., Suresnes, France. Perfumes, toilet waters, &c. No. 146,717; Sept. 20; v. 290; p. 632.
- Coty, François J. de S., Suresnes, France. Perfumes and toilet waters. No. 146,719; Sept. 20; v. 290; p. 632.
- Coty, François J. de S., Suresnes, France. Perfumes, toilet waters, face-powders, &c. No. 146,974; Sept. 27; v. 290; p. 804.
- Coty, François J. de S., Suresnes, France. Perfumes, toilet waters, and brillantane. Nos. 146,975-9; Sept. 27; v. 290; p. 804.
- Coty, François J. de S., Suresnes, France. Perfumes, toilet waters, face-powders, &c. Nos. 146,980-1; Sept. 27; v. 290; p. 804.
- Coty, François J. de S., Suresnes, France. Certain toilet preparations. No. 147,206; Oct. 4.
- Coudurier, Fructus & Descher, Lyon, France, and New York, N. Y. Silk piece goods. No. 139,278; Feb. 1; v. 283; p. 168.
- Coudurier, Fructus & Descher, Lyon, France, and New York, N. Y. Silk piece goods. No. 139,777; Feb. 22; v. 283; p. 752.
- Coulter Dry Goods Company, Los Angeles, Calif. Leather gloves for men and women. No. 144,992; July 19; v. 288; p. 626.
- Council, James R., Norfolk, Va. Root-beer and ginger-ale. No. 144,735; July 19; v. 288; p. 616.
- Council, James R., Norfolk, Va. Cough-drops. No. 149,025; Dec. 6.
- Council, James R., Norfolk, Va. Peanut-brittle. No. 149,895; Dec. 27.
- Courmalis & Co., New York, N. Y. Olive-oil. No. 139,780; Feb. 22; v. 283; p. 752.
- Cousins, J. & T., Co., Brooklyn, N. Y. Shoes of leather or combination of leather and fabric. No. 143,925; June 21; v. 287; p. 578.
- Covert Gear Company, Lockport, N. Y. Transmission-gearings and parts thereof. No. 147,973; Nov. 8.
- Coward, Albert T. H., Sheffield, England. Table knives, forks, spoons, &c. No. 139,512; Feb. 8; v. 283; p. 350.



*Alphabetical list of registrants of trade-marks—Continued.*

- Coward, John, D., Boston, Mass. Traffic-signals for motor-vehicles. No. 149,896; Dec. 27.
- Cowpens Mills, Cowpens, S. C. Sheetings. No. 139,513; Feb. 8; v. 283; p. 350.
- Cox, Albert J., Company, Chicago, Ill. Electric insulating supplies. No. 144,374; July 5; v. 288; p. 192.
- Cox, J. Elwood, Mfg. Co., High Point, N. C. Certain named hardwood dimension-stock. No. 145,342; Aug. 2; v. 289; p. 178.
- Cox Medicine Company, Omega, Ga. Liver and stomach medicine. No. 144,375; July 5; v. 288; p. 192.
- Craddock Terry Company, Lynchburg, Va. Misses' and children's shoes. No. 138,600; Jan. 4; v. 282; p. 186.
- Craddock-Terry Company, Lynchburg, Va. Leather shoes. No. 148,383; Nov. 15.
- Craig, W. D., Austin, Tex. Laxative. No. 143,926; June 21; v. 287; p. 578.
- Craig, Dr. William E., Joplin, Mo. Medicinal preparation for treatment of syphilis and kindred diseases. No. 147,290; Oct. 11.
- Cramer, G., Dry Plate Company, St. Louis, Mo. Photographic dry plates, including X-ray dry plates. No. 147,291; Oct. 11.
- Cramer, G., Dry Plate Company, St. Louis, Mo. X-ray dry plates. No. 147,292; Oct. 11.
- Cramer, Joseph, Company, The, Cincinnati, Ohio. Soap and soap paste. No. 147,764; Nov. 1.
- Crandall Pettee Co., The, New York, N. Y. Prepared cocoa. No. 145,885; Aug. 16; v. 289; p. 601.
- Crane & Breed Manufacturing Company, The, Cincinnati, Ohio. Monthly and periodical publication. No. 143,579; June 7; v. 287; p. 182.
- Crane Company, Chicago, Ill. Valves, pipe-fittings, regulators, &c. No. 140,034; Mar. 1; v. 284; p. 176.
- Crane Company, Chicago, Ill. Steam-blower valves. No. 141,740; Apr. 26; v. 285; p. 786.
- Crane Company, Chicago, Ill. Certain pipe fittings and valves. No. 143,927; June 21; v. 287; p. 578.
- Crane, George W., Fort Wayne, Ind. Preparation for prevention and relief of colds, croup, sore throat, &c. No. 138,799; Jan. 11; v. 282; p. 376.
- Crane Medicine Co., Chicago, Ill. Mentho-pine salve. No. 140,101; Mar. 8; v. 284; p. 364.
- Crawford Manufacturing Co., Inc., Richmond, Va. Tire-covers. No. 145,343; Aug. 2; v. 289; p. 178.
- Cream City Products Company, Milwaukee, Wis. Non-alcoholic fruit beverages. No. 139,503; Feb. 8; v. 283; p. 350.
- Credit Clearing House, The, Jersey City, N. J., and New York, N. Y. Publications issued at regular intervals. No. 140,786; Mar. 29; v. 284; p. 943.
- Creese & Cook Co., Danvers, Mass. Calf-leather. No. 145,065; July 26; v. 288; p. 812.
- Crest Chemical Co., Monroe, N. C. Salve used in treatment of bronchitis, pneumonia, &c. No. 143,928; June 21; v. 287; p. 578.
- Crème Coco Company, The, Brooklyn, N. Y. Cosmetic cream. No. 141,344; Apr. 19; v. 285; p. 566.
- Crème-O-Toast Company. (See Porter Baking Co., The, assignor.)
- Creomulsion Company, Griffin, Ga. Medicine. No. 144,186; June 28; v. 287; p. 774.
- Cresca Company, Inc., New York, N. Y. Sardines, olives, canned cherries. No. 142,196; May 3; v. 286; p. 194.
- Crescent Bottling Co., Inc., Newark, N. J. Soft drinks. No. 147,578; Oct. 25.
- Crescent Company, Meriden, Conn. Glass-cutters, screw-drivers, screwdriver and expansion bits, &c. No. 141,911; May 3; v. 286; p. 183.
- Crescent Feather Company, San Francisco, Calif. Mattresses. No. 140,353; Mar. 15; v. 284; p. 580.
- Crescent Garter Co., New York, N. Y. Garters. No. 143,308; May 31; v. 286; p. 1048.
- Crescent Refractories Company, Curwensville, Pa. Fire-bricks and tile manufactured from fire-clay for metallurgical furnaces. Nos. 142,362-5; May 10; v. 286; pp. 407-8.
- Crescent Talking Machine Co., New York, N. Y. Phonographs and records. No. 141,104; Apr. 12; v. 285; p. 380.
- Crest Net Company, The. (See Norton, Walter F., assignor.)
- Crest Net Company Inc., The, New York, N. Y. Hair-nets. No. 147,974; Nov. 8.
- Crew Levick Company, Philadelphia, Pa. Illuminating, lubricating, burning oils, and greases other than launching-greases. No. 139,281; Feb. 1; v. 283; p. 168.
- Crew Levick Company, Philadelphia, Pa. Lubricating oils and greases. No. 140,354; Mar. 15; v. 284; p. 580.
- Crew Levick Company, Philadelphia, Pa. Lubricants for fibers preparatory to spinning. Nos. 140,355-7; Mar. 15; v. 284; p. 580.
- Crew Levick Company, Philadelphia, Pa. Lubricating oils and greases. No. 143,309; May 31; v. 286; p. 1048.
- Crew Levick Company, Philadelphia, Pa. Lubricating oils and greases. No. 144,520; July 5; v. 288; p. 198.
- Crippen Record File Corporation, Rochester, N. Y. Cabinets for records for sound-reproducing machines. No. 142,483; May 17; v. 286; p. 625.
- Crippen & Reid, Baltimore, Md. Middy-blouses. No. 147,293; Oct. 11.
- Criss, Tereasa, Shaw, Miss. Hair-growers and hair-shampooing mixture. No. 138,959; Jan. 18; v. 282; p. 554.
- Crocker, Josiah H., Cambridge, Mass. Stove-polishes. No. 141,798; Apr. 26; v. 285; p. 792.
- Crocker-McElwain Company, Holyoke, Mass. Certain printers' blankets. No. 145,642; Aug. 16; v. 289; p. 592.
- Crocker-Wheeler Company, Ampere, N. J. Motors and generators and starters. Nos. 141,526-7; Apr. 26; v. 285; pp. 778-9.
- Crocker-Wheeler Company, Ampere, N. J. Electric motors and generators, starters for motors. No. 144,656; July 12; v. 288; p. 427.
- Crocker-Wheeler Company, Ampere, N. J. Starters, motors, dynamos, and rail-bases therefor. No. 148,444; Nov. 15.
- Crockett, Duke B., Jersey City, N. J. Waterproof enamel paint for wood and metal. No. 142,484; May 17; v. 286; p. 625.
- Croft-Stanard Company, Inc., Huntington, W. Va. Certain articles of clothing. No. 145,643; Apr. 16; v. 289; p. 592.
- Croker Packing Co., San Francisco, Calif. Canned fruits and vegetables, fruit preserves. No. 148,808; Nov. 29.
- Cronkhite Co., Inc., The, (now by change of name Cronkhite Chemical Corporation,) Boston, Mass. Receptacles. No. 141,912; May 3; v. 286; p. 184.
- Cronkhite Company, The, Boston, Mass. Fiber-ware receptacles—namely, cans, barrels, boxes, &c. No. 144,312; June 28; v. 287; p. 780.
- Crooks-Dittman Co., Williamsport, Pa. Wood flooring. Nos. 138,601-2; Jan. 4; v. 282; p. 186.
- Cross, Andrew J., New York, N. Y. Ophthalmic lenses. No. 147,294; Oct. 11.
- Cross & Beardsley, New Haven, Conn. Wall-papers. No. 147,921; Nov. 8.
- Cross, Harry E., Rockton, Ill. Pleasure motor-cars. Nos. 145,644-5; Aug. 16; v. 289; p. 592.
- Crouse, Lothaire E., Columbus, Ohio. Powdered preparation for certain named purposes. Nos. 146,640-1; Sept. 13; v. 290; p. 426.
- Crowe, Robert L., Memphis, Tenn. Medicinal preparation for headache. No. 138,800; Jan. 11; v. 282; p. 376.
- Crowe, Robert L., Memphis, Tenn. Germicide. No. 141,913; May 3; v. 286; p. 184.
- Crowley Co., The, Spokane, Wash. Window and door frames. No. 143,322; May 31; v. 286; p. 1048.
- Crowley, Timothy F., New York, N. Y. Women's collars, stocks, vestees, &c. No. 143,929; June 21; v. 287; p. 578.
- Crown Chemical Company, The, Indianapolis, Ind. Certain toilet preparations. No. 144,561; July 12; v. 288; p. 423.
- Crown Confectionery Company, Jacksonville, Fla. Candy. No. 141,914; May 3; v. 286; p. 184.
- Crown Corset Company, The, New York, N. Y. Corset-boning. No. 147,975; Nov. 8.
- Crown, Inc., New York, N. Y. Dresses. No. 141,528; Apr. 26; v. 285; p. 779.
- Crown Margarin Company, St. Louis, Mo. Oleomargarin. No. 145,066; July 26; v. 288; p. 812.
- Crown Margarin Company, St. Louis, Mo. Oleomargarin. Nos. 145,549-50; Aug. 9; v. 289; p. 407.
- Crown Products Co., New York, N. Y. General tonic. No. 146,720; Sept. 20; v. 290; p. 632.
- Crown Willamette Paper Company, San Francisco, Calif. Paper bags. Nos. 149,366-7; Dec. 13.
- Croxton, Joseph H., Fort Worth, Tex. Cleanser for fabrics, gloves, shoes, &c. No. 147,976; Nov. 8.
- Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, rods, billets, blooms, sheets, &c. No. 145,067; July 26; v. 288; p. 812.
- Cruse Company, Inc., The, New York, N. Y. Gum cream and dentifrice. No. 148,754; Nov. 22.
- Crush Brick Company, Sulphur Springs, Tex. Fire-brick, hollow building tile, face-brick, &c. No. 149,655; Dec. 2.
- Crystal-Lac Products Company, Los Angeles, Calif. Liquid cleaning and polishing materials for automobile-bodies. No. 144,234; June 28; v. 287; p. 775.
- Crystal-On Chemical Co., The, Charleston, S. C. Composition for preventing deposition of moisture on windshields, windows, &c. No. 139,473; Feb. 1; v. 283; p. 173.
- Crystal Tissue Co., The, Excello, Ohio. White, colored, Manila, and waxed tissue-papers. No. 147,765; Nov. 1.
- Cudaby Packing Company, The, Chicago, Ill. Soap powder combined with mineral ingredients. No. 139,514; Feb. 8; v. 283; p. 350.
- Cuetara Brothers, New York, N. Y. Shoes of various materials and combination of materials. No. 139,282; Feb. 1; v. 283; p. 168.
- Cullen Man'g Co., Salt Lake City, Utah. Candy. No. 146,642; Sept. 13; v. 290; p. 426.
- Culmer, Thomas W., and Sons, London, England. Shaving-brushes. No. 142,972; May 24; v. 286; p. 845.
- Culver, Edgar L., Washington, D. C. Manufactured fuel. No. 141,915; May 3; v. 286; p. 184.
- Cummings Brothers, Flint, Mich. Automobile-brake lining. No. 141,105; Apr. 12; v. 285; p. 380.
- Cummings Brothers, Flint, Mich. Antileak compound. No. 141,106; Apr. 12; v. 285; p. 380.
- Cummings, Arthur B., Attleboro, Mass. Toy moving-picture machines. No. 139,283; Feb. 1; v. 283; p. 168.



- Cummings, Louis W., Winston-Salem, N. C. Medical preparation for external use. No. 140,583; Mar. 22; v. 284; p. 744.
- Cunning, Geo. A., Las Animas, Colo. Veterinarian and poultry preparation in the nature of a tonic and healing-powder for the treatment of roup in poultry and spavin in horses. No. 146,206; Sept. 6; v. 290; p. 198.
- Cunningham, Christopher, Company, The, Brooklyn, N. Y. Steam-boilers and appurtenances thereto. No. 145,547; Aug. 9; v. 289; p. 407.
- Cunningham Piano Company, Philadelphia, Pa. Talking-machines. No. 148,809; Nov. 29.
- Cupples Company Manufacturers, St. Louis, Mo. Golf-balls. No. 139,515; Feb. 8; v. 283; p. 350.
- Cupples Company, Manufacturers, St. Louis, Mo. Rubber tires and tubes. No. 144,521; July 5; v. 288; p. 198.
- Cupples Company Manufacturers, St. Louis, Mo. Rubber tires and tubes. No. 148,810; Nov. 29.
- Curdolac Food Co., Waukesha, Wis. Diabetic flour. No. 145,646; Aug. 16; v. 289; p. 592.
- Cureton, Edward, Stockton, Calif. Paste for massaging the gums. No. 141,916; May 3; v. 286; p. 184.
- Curran-Detroit Radiator Co., Detroit, Mich. Automobile-radiators. No. 143,795; June 7; v. 287; p. 190.
- Curtiss Candy Co., Chicago, Ill. Candy. Nos. 145,937-8; Aug. 23; v. 289; p. 787.
- Curtiss Candy Co., Chicago, Ill. Candy. No. 146,564; Sept. 13; v. 290; p. 421.
- Curtiss Candy Co., Chicago, Ill. Candy. Nos. 147,579-80; Oct. 25.
- Curtiss Candy Co., Chicago, Ill. Candy. Nos. 148,384-5; Nov. 15.
- Curtiss Candy Company, Chicago, Ill. Candy. No. 143,578; June 7; v. 287; p. 182.
- Curtiss Grain Corporation, Buffalo, N. Y. Manufactured horse, hog, dairy, calf, poultry, and stock feeds. No. 147,581; Oct. 25.
- Curwin's Accountancy Co., South Bend, Ind. Accounting-forms. No. 146,207; Sept. 6; v. 290; p. 198.
- Cur-Zon Company, The, Los Angeles, Calif. Medicinal preparation. No. 145,942; Aug. 23; v. 289; p. 787.
- Cutex Corporation, assignor to Northam Warren Corporation, New York, N. Y. Toilet preparations. No. 142,973; May 24; v. 286; p. 845.
- Cutino, Edmund D., Kansas City, Mo. Face-powder, lip-rouge, eyebrow-pencil, &c. No. 139,782; Feb. 22; v. 283; p. 752.
- Cutler-Magner Co., Duluth, Minn. Table-salt. No. 139,781; Feb. 22; v. 283; p. 752.
- Cutting, Hunter H., Rockford, Ill. Clock-cases. No. 147,582; Oct. 25.
- Cuttner Chemical Company, Eau Claire, Wis. Skint-lotion. No. 140,358; Mar. 15; v. 284; p. 580.
- Cyclometer Corporation, Rochester, N. Y. Power-driven bicycles. No. 147,583; Oct. 25.
- Cyco Medicine Company, Chicago, Ill. Non-alcoholic ginger cordial. No. 145,344; Aug. 2; v. 289; p. 178.
- Cyco Medicine Co., The, Chicago, Ill. General medicinal tonic. No. 145,941; Aug. 23; v. 289; p. 787.
- Czechoslovak Bead Company, Inc., New York, N. Y. Pearls, precious, semiprecious, and synthetic stones used as jewelry. No. 143,310; May 31; v. 286; p. 1048.
- D. D. D. Company, Chicago, Ill. Ointment for eczema. No. 139,130; Jan. 25; v. 282; p. 733.
- D. & D. Remedy Company, Chattanooga, Tenn. General medicinal tonic. No. 149,897; Dec. 27.
- D and I Laboratories, Brooklyn, N. Y. Detergents, astringents, and medicinal preparations for the gums, teeth, &c. No. 139,976; Mar. 1; v. 284; p. 173.
- Dade City Packing Co., Dade City, Fla. Fresh citrus fruits. No. 146,724; Sept. 20; v. 290; p. 632.
- Dafen, Chris, New York, N. Y. Milk products and derivatives thereof in solid or semisolid form in the nature of cheese. No. 142,491; May 17; v. 286; p. 626.
- Dages, August, Philadelphia, Pa. Mayonnaise. No. 144,110; June 21; v. 287; p. 586.
- Dahlheimer, Angelus J., St. Louis, Mo. Complexion-powder, (face-powder.) No. 139,783; Feb. 22; v. 283; p. 752.
- Dahlin, Erik, Clearbrook, Minn. Medicine for coughs, catarrh, &c. No. 146,208; Sept. 6; v. 290; p. 198.
- Dahnke-Walker Milling Co., Union City, Tenn. Wheat and corn products. No. 143,580; June 7; v. 287; p. 182.
- Daisy Manufacturing Co., Plymouth, Mich. Toy pop-guns and water-pistols. No. 142,492; May 17; v. 286; p. 626.
- Daisy Whitehead Knitting Co., New York, N. Y. Hosiery. No. 142,974; May 24; v. 286; p. 845.
- Dakota Chemical Company, Sioux Falls, S. D. Medicinal preparations in soft capsules for the treatment of bot and worm ailments in horses, &c. No. 138,801; Jan. 11; v. 282; p. 376.
- Daley, Eugene J., Jr., San Francisco, Calif. War game. No. 144,376; July 5; v. 288; p. 192.
- Dallam, F. B., San Francisco, Calif. Old newspapers. No. 149,656; Dec. 20.
- Dallas Phonograph Manufacturing Company, Dallas, Tex. Phonograph. No. 141,024; Mar. 29; v. 284; p. 950.
- Dally, Charles T., West Orange, N. J. Chemical carbon-removing compound for the cylinders of internal-combustion engines. No. 144,377; July 5; v. 288; p. 192.
- Dalton, Harry, Sr., Philadelphia, Pa. Combined tank and carbureter for use with internal-combustion engines. No. 146,565; Sept. 13; v. 290; p. 421.
- Dalton Hosiery Mills, Dalton, Ga. Hosiery. No. 142,198; May 3; v. 286; p. 194.
- Dalton Manufacturing Corporation, New York, N. Y. Lathes and lathe parts. No. 147,205; Oct. 4.
- Damon, William H., Chicago, Ill. Liquid polish for furniture and automobile-bodies. No. 141,529; Apr. 26; v. 285; p. 779.
- Damschinsky, Carl, New York, N. Y. Hair-restoratives. No. 148,811; Nov. 29.
- Damsey, Bessie, New York, N. Y. Clothing. No. 138,603; Jan. 4; v. 282; p. 186.
- Damsey, Bessie, Inc., New York, N. Y. Publication issued about semi-annually. No. 147,295; Oct. 11.
- Dan Valley Mills, Danville, Va. Wheat-flour. Nos. 138,604-5; Jan. 4; v. 282; p. 186.
- Danbury Electric Manufacturing Co., The, Danbury, Conn. Electrical switches and devices of various types. No. 143,312; May 31; v. 286; p. 1048.
- Dancig, Edward, New York, N. Y. Fireproof fabrics for lamp-shades. No. 145,650; Aug. 16; v. 289; p. 593.
- Danciger Brothers, Kansas City, Mo. Non-intoxicating, non-cereal, maltless beverage. No. 144,737; July 19; v. 288; p. 616.
- Danforth, Josiah H., & Company, Gloversville, N. Y. Gloves of leather and fabric. No. 147,296; Oct. 11.
- Danielson, Charles, Minneapolis, Minn. Ironing-boards. No. 147,198; Oct. 4.
- Danielson Tool Company, Wausau, Wis. Burning-in machines. No. 140,359; Mar. 15; v. 284; p. 580.
- Danielson Tool Company, Wausau, Wis. Axle-stands, babbitting outfits, burning-in machines, &c. No. 141,530; Apr. 26; v. 285; p. 779.
- Danielson Tool Company, Wausau, Wis. Tools and machinery for garage use. No. 142,252; May 10; v. 286; p. 403.
- Dantzig, Eli, New York, N. Y. Hair-nets. No. 140,360; Mar. 15; v. 284; p. 580.
- Danville, Albert, Sacramento, Calif. Preparation for improving gasoline. No. 142,975; May 24; v. 286; p. 845.
- Danville, Alexander, Chicago, Ill. Gas-engine-fuel improver. No. 144,378; July 5; v. 288; p. 192.
- Danz, Alfred C., Los Angeles, Calif. Non-intoxicating grape-juice. No. 139,516; Feb. 8; v. 283; p. 350.
- D'Arcy, James, Rome, Ga. Preparation for the treatment of skin diseases. No. 142,976; May 24; v. 286; p. 845.
- Darbonnier & Saperstein, Atlanta, Ga. Phenol glycerin for burns. No. 147,584; Oct. 25.
- Darbonnier & Saperstein, Atlanta, Ga. Antiseptic powder of copper, alum, and zinc for women's personal hygiene. No. 147,585; Oct. 25.
- Darling, Miller & Co., New York, N. Y. Patches and inner tubes. No. 138,606; Jan. 4; v. 282; p. 186.
- Dart, E. M., Mfg. Co., Providence, R. I. Metal pipe-fittings. No. 145,068; July 26; v. 288; p. 812.
- Dash, Allan J., Company, Inc., Rochester, N. Y. Medicine for certain purposes. No. 148,755; Nov. 22.
- Daubenspeck Chain Company, Butler, Pa. Traction and antiskid chains. No. 141,917; May 3; v. 286; p. 184.
- Davenport Cabinet Works, Davenport, Iowa. Phonographs. No. 144,379; July 5; v. 288; p. 192.
- Davenport Candy Co., Davenport, Iowa. Candy. No. 148,756; Nov. 22.
- Davenport Hosiery Mills, Chattanooga, Tenn. Hosiery. No. 139,284; Feb. 1; v. 283; p. 168.
- Davidson, Meyer J., Paris, France. Grinding-machines, such as cement, ore, or stone mills, and parts thereof. No. 147,451; Oct. 18.
- Davidson Brothers Co., Des Moines, Iowa. Chocolate-coated candies. No. 145,345; Aug. 2; v. 289; p. 178.
- Davidson, David, Providence, R. I. Pictures. No. 146,448; Sept. 6; v. 290; p. 209.
- Davidson-Lake Tea and Coffee Co., Salt Lake City, Utah. Coffee. No. 146,722; Sept. 20; v. 290; p. 633.
- Davies, Rose & Company. (See McNulty, John J., M. D., assignor.)
- Davies, Usher L., San Francisco, Calif. Non-alcoholic non-cereal maltless beverage. No. 149,026; Dec. 6.
- Davies, William J., Los Angeles, Calif. Laxative tonic and nerve. No. 141,346; Apr. 19; v. 285; p. 566.
- Davis and Ford, Chicago, Ill. Cardboard and pictorial toys for teaching children simple words. No. 149,657; Dec. 20.
- Davis and Voetsch, New York, N. Y. Stuffed toy dogs. Nos. 149,029-30; Dec. 6.
- Davis-Bournonville Company, New York, N. Y., and Jersey City, N. J. Welding and cutting machines and accessories and acetylene-generators. No. 139,128; Jan. 25; v. 282; p. 733.
- Davis-Bournonville Company, New York, N. Y., and Jersey City, N. J. Flux for welding sheet-aluminum. No. 141,741; Apr. 26; v. 285; p. 787.
- Davis-Bournonville Company, New York, N. Y., and Jersey City, N. J. Flux for welding sheet-aluminum. No. 142,977; May 24; v. 286; p. 845.
- Davis Can-Server Corporation, New York, N. Y. Receptacles. No. 140,102; Mar. 8; v. 284; p. 364.
- Davis Car Company, Seattle, Wash. Automobiles. No. 142,253; May 10; v. 286; p. 403.



*Alphabetical list of registrants of trade-marks—Continued.*

- Davis, Charles, Paris, France. Face-powder, rouge, massage-cream. No. 147,977; Nov. 8.
- Davis, Emerson, assignor, by mesne assignments, to White Mountain Candies, Inc., Concord, N. H. Candies. No. 140,361; Mar. 15; v. 284; p. 580.
- Davis, Ethel D., Pittsburgh, Pa. Washing and cleaning powder. No. 139,711; Feb. 15; v. 283; p. 541.
- Davis & Geck, Inc., Brooklyn, N. Y. Packaged antiseptics. No. 140,103; Mar. 8; v. 284; p. 364.
- Davis, H. E., Co., Freeport, Me. Leather shoes. No. 141,531; Apr. 26; v. 285; p. 779.
- Davis, H. E., Co., Freeport, Me. Leather shoes. No. 145,069; July 26; v. 288; p. 812.
- Davis, Herbert H., Kennewick, Wash. Fresh apples. No. 139,784; Feb. 22; v. 283; p. 752.
- Davis, J., & Co., New York, N. Y. Ladies' frocks and costumes. No. 142,493; May 17; v. 286; p. 626.
- Davis, Jacob, Arlington, N. J. Paint coating or enamel for iron surfaces. No. 149,027; Dec. 6.
- Davis & Lawrence Company, New York, N. Y. General tonic for bronchitis, asthma, &c. No. 139,973; Mar. 1; v. 284; p. 173.
- Davis & Lawrence Company, New York, N. Y. Menthol salve. Nos. 140,104-5; Mar. 8; v. 284; p. 364.
- Davis & Lawrence Company, New York, N. Y. Compound syrup of hypophosphites. No. 140,362; Mar. 15; v. 284; p. 580.
- Davis Machine Tool Company, Inc., Rochester, N. Y. Lathes. No. 148,574; Nov. 15.
- Davis Mfg. Co., Minneapolis, Minn. Davenport. No. 142,978; May 24; v. 286; p. 845.
- Davis, Michael J., Brooklyn, N. Y. Malt-syrup used in making malt beverages. No. 145,647; Aug. 16; v. 289; p. 592.
- Davis, Miriam R., San Francisco, Calif. Brassières. No. 147,297; Oct. 11.
- Davis, Pearl, Birmingham, Ala. Tonics and dressings for the hair and scalp. No. 149,028; Dec. 6.
- Davis-Pope Company Incorporated, South Norwalk, Conn. Men's and women's hats. No. 149,309; Dec. 6.
- Davis, Samuel P., Little Rock, Ark. Cattle and stock feed. No. 148,757; Nov. 22.
- Davis System Bakery, Kansas City, Mo. Cream-filled pastries. No. 147,586; Oct. 25.
- Davis, W. A. W., Corp., New York, N. Y. Fiber carpets and rugs. No. 139,785; Feb. 22; v. 283; p. 752.
- Davis, W. A. W., Corp., New York, N. Y. Wool and fiber carpets and rugs. No. 145,070; July 26; v. 288; p. 812.
- Davis, W. A. W., Corp., New York, N. Y. Fiber and wool carpets and rugs. No. 147,452; Oct. 18.
- Davis, W. R., & Company, Atlanta, Ga. Stock food. No. 143,796; June 7; v. 287; p. 190.
- Davis Welding & Manufacturing Company, The, Cincinnati, Ohio. Tanks, mounting-frames for the tanks, &c. No. 142,254; May 10; v. 286; p. 403.
- Dawson, Joseph C., Lynn, Mass. Rubber vehicle-tires. No. 138,607; Jan. 4; v. 282; p. 186.
- Dawson Pharmacal Company, The, Dawson Springs, Ky. Medicinal preparation for certain named purposes. No. 139,674; Feb. 8; v. 283; p. 356.
- Dawson Pharmacal Company, The, Dawson Springs, Ky. Iodized emulsion. No. 139,675; Feb. 8; v. 283; p. 356.
- Day, Adra L., Danvers, Mass. Sheepskin, kid, calf, and fabric shoes, slippers, and booties. No. 144,313; June 28; v. 287; p. 780.
- Day Company, The, Minneapolis, Minn. Ventilators and chimney-caps. No. 146,723; Sept. 20; v. 290; p. 633.
- Day, James B., & Co., Chicago, Ill. Paint-brushes. No. 146,724; Sept. 20; v. 290; p. 633.
- Day-Nite Corporation, Carson City, Nev., and San Francisco, Calif. Lenses for automobile-headlights. No. 141,918; May 3; v. 286; p. 184.
- Dayton Automotive Wheel Company, Dayton, Ohio. Wheels. No. 145,502; Aug. 2; v. 289; p. 184.
- Dayton Dress Company, The, Dayton, Ohio. House-dresses and aprons. No. 142,494; May 17; v. 286; p. 626.
- Dayton Milling Company, Dayton, Tenn. Pastry-flour made from wheat. No. 148,812; Nov. 29.
- Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Tires. No. 145,648; Aug. 16; v. 289; p. 592.
- Dayton Rubber Manufacturing Co., The, Dayton, Ohio. Rubber tires and tubes. No. 147,726; Oct. 25.
- Dayton, Walter E., Chattanooga, Tenn. Preparation for colds and la grippe. No. 139,129; Jan. 25; v. 282; p. 733.
- Dayton, Walter E., Chattanooga, Tenn. Medicinal preparation. No. 148,387; Nov. 15.
- Dayton Wire Wheel Company, The, Dayton, Ohio. Road-wheels for motor-vehicles. No. 139,285; Feb. 1; v. 283; p. 168.
- Dayton Wire Wheel Company, The, Dayton, Ohio. Road-wheels for motor-vehicles. No. 140,266; Mar. 8; v. 284; p. 370.
- Dazey Churn & Manufacturing Company, St. Louis, Mo. Churns. Nos. 147,298-9; Oct. 11.
- Deagan, J. C., Inc., Chicago, Ill. Xylophones. Nos. 146,449-51; Sept. 6; v. 290; p. 209.
- Dean & Williams Co., Chicago, Ill., and Harbor Springs, Mich. Toy auto dump-truck. No. 148,813; Nov. 29.
- Dearborn Chemical Company, Chicago, Ill. Boiler compound for prevention of deleterious action of waters when used in steam-boilers. No. 145,649; Aug. 16; v. 289; p. 592.
- Dearborn Equipment Company, Kalamazoo, Mich. Certain automotive tools and equipment. No. 145,346; Aug. 2; v. 289; p. 178.
- De Back, John A., San Francisco, Calif. Fresh pears. No. 145,943; Aug. 23; v. 289; p. 787.
- De Bevoise Co., Charles R., Newark, N. J. Broad silks, satins, cotton, and linen piece goods. No. 144,738; July 19; v. 288; p. 616.
- De Bevoise Co., Charles R., Newark, N. J. Corsets, corset-covers, brassières, and waists. No. 144,739; July 19; v. 288; p. 617.
- Debow & Co., Newark, N. J. Butter. No. 140,787; Mar. 29; v. 284; p. 943.
- Decker, Jacob E., & Sons, Mason City, Iowa. Nut-margarin. No. 140,788; Mar. 29; v. 284; p. 943.
- Decker, Jacob E., & Sons, Mason City, Iowa. Jowl-bacon squares. No. 141,919; May 3; v. 286; p. 184.
- Decker, Jacob E., & Sons, Mason City, Iowa. Bacon, sausages, &c. No. 141,920; May 3; v. 286; p. 184.
- Decker, Jacob E., & Sons, Mason City, Iowa. Chilli-con-carné. No. 142,495; May 17; v. 283; p. 626.
- Decker, Jacob E., & Sons, Mason City, Iowa. Full-cream cheese. No. 147,979; Nov. 8.
- Decker, Jacob E., & Sons, Mason City, Iowa. Oleomargarin. No. 147,978; Nov. 8.
- Dedrick, William A., Indianapolis, Ind. Hair-tonic and medicinal scalp treatment. No. 148,646; Nov. 22.
- Dee, John, Rock Island, Ill. Connecting-rod liners. No. 146,209; Sept. 6; v. 290; p. 198.
- Deere & Company, Moline, Ill. Agricultural implements and parts thereof. No. 139,517; Feb. 8; v. 283; p. 350.
- De-Fi Manufacturing Company, New York, N. Y. Carbon-paper, typewriter-ribbons. No. 138,802; Jan. 11; v. 282; p. 376.
- De-Fi Manufacturing Company, New York, N. Y. Carbon-paper and typewriter-ribbons. No. 138,960; Jan. 18; v. 282; p. 554.
- De Florence, Madame, Hair Specialty Co., Cincinnati, Ohio. Toilet preparations. No. 140,789; Mar. 29; v. 284; p. 943.
- De Forest, Sara V., New York, N. Y. Varnishes—namely, bronzing liquid, asphaltum varnish, and japan driers. No. 149,658; Dec. 20.
- De Forest, Clark E., Unadilla, N. Y. Medicine for blind foul and foot-halt in cattle. No. 142,980; May 24; v. 286; p. 845.
- De France, Maurice, Brussels, Belgium. Insoles made of cardboard. No. 143,314; May 31; v. 286; p. 1048.
- Defcie Company Inc., Brooklyn, N. Y. Perfumes, toilet waters, face and body powders. No. 139,974; Mar. 1; v. 284; p. 173.
- De Groote, Melvin, Pittsburgh, Pa. Soluble compound-vanilla concentrate for food purposes. No. 145,071; July 26; v. 288; p. 812.
- De Jesus, José, New York, N. Y. Preparation for the treatment of affections of the throat and pulmonary disorders. No. 141,037; Mar. 29; v. 284; p. 952.
- De Jesús, José, New York, N. Y. Medicinal preparation. No. 143,056; May 24; v. 286; p. 847.
- De Klyn Candy Co., The, Cleveland, Ohio. Candy. No. 143,581; June 7; v. 287; p. 182.
- Delano, Potter & Co., Inc., Boston, Mass. Tea. No. 142,496; May 17; v. 286; p. 626.
- Delano, Potter and Co. Inc., Boston, Mass. Tea. No. 149,763; Dec. 20.
- Delavan, Sophia E., Chicago, Ill. Dolls. Nos. 142,497-8; May 17; v. 286; p. 626.
- Delaware Electric Supply Co., Wilmington, Del. Belting, hose, packing, and tires. No. 140,363; Mar. 15; v. 284; p. 580.
- Del Castillo, Rafael, & Co., New York, N. Y. Cotton piece goods. Nos. 139,286-7; Feb. 1; v. 283; p. 168.
- Del Castillo, Rafael & Co., New York, N. Y. Cotton piece goods. No. 140,106; Mar. 8; v. 284; p. 364.
- Del Castillo, Rafael & Co., New York, N. Y. Cotton piece goods. No. 143,311; May 31; v. 286; p. 1048.
- Del Castillo, Angel G., Seville, Spain. Olive-oil and canned olives. No. 146,706; Sept. 20; v. 290; p. 632.
- Del Castillo, Rafael, & Co., New York, N. Y. Cotton piece goods. No. 148,386; Nov. 15.
- Delco-Light Company, Dayton, Ohio. Electric lighting and power systems, or parts thereof. No. 140,107; Mar. 8; v. 284; p. 364.
- Delgado Mills, Wilmington, N. C. Cotton piece goods—namely, gingham. No. 149,031; Dec. 6.
- Dé Leon Bandeau Co., The, St. Louis, Mo. Hat-bandeaux. No. 148,758; Nov. 22.
- Delisco Corporation, Limited, Boston, Mass. Coffee substitute. No. 146,925; Sept. 20; v. 290; p. 641.
- De-Lite Manufacturing Company, Boston, Mass. Auto-polish. No. 145,944; Aug. 23; v. 289; p. 787.
- Delmore Manufacturing Company, Inc., New York, N. Y. Light motor road-vehicles. No. 138,803; Jan. 11; v. 282; p. 376.
- De Long Hook and Eye Company, The, Philadelphia, Pa. Snap-fasteners. No. 148,388; Nov. 15.
- De Long & Provost, Worcester, Mass. Dental specialties. No. 142,499; May 17; v. 286; p. 626.
- Delson Chemical Co., Inc., The, Brooklyn, N. Y. Medicinal preparation for the treatment for general and chronic constipation. No. 146,079; Aug. 30; v. 289; p. 1013.



- DeLson Chemical Co. Inc., The, Brooklyn, N. Y. Pharmaceutical preparation for treatment of throat, lung, &c. No. 146,080; Aug. 30; v. 289; p. 1013.
- De Laxe Cap Co., St. Louis, Mo. Hats. No. 147,776; Nov. 1.
- De Martino, Adelina, New York, N. Y. Salad-dressing. No. 143,582; June 7; v. 287; p. 182.
- Deming Company, The, Salem, Ohio. Grease-guns. No. 145,302; July 26; v. 288; p. 817.
- De Met and Company, Chicago, Ill. Candy. No. 146,210; Sept. 6; v. 290; p. 198.
- Denman-Myers Cord Tire Company, Cleveland, Ohio. Rubber tires. No. 144,740; July 19; v. 288; p. 617.
- Denney & Denney, Philadelphia, Pa. Perspiration-deodorizing cream for use upon the person. No. 140,790; Mar. 29; v. 284; p. 943.
- Dennos Food Company, Seattle, Wash., and Chicago, Ill. Malted non-alcoholic beverages. No. 141,107; Apr. 12; v. 285; p. 380.
- Dental Ceramic Corporation, Greenport, N. Y. Compound for use in filling teeth. No. 143,313; May 31; v. 286; p. 1048.
- Dental Ceramic Corporation, Greenport, N. Y. Compound for use in filling teeth. No. 143,315; May 31; v. 286; p. 1048.
- Dental Manufacturing Co. Ltd., The, London, England. Dental and surgical appliances. No. 142,500; May 17; v. 286; p. 626.
- Dental Pharmaceutical Co., The, Holton, Kans. Medicine for the control of post-operative pain. No. 139,975; Mar. 1; v. 284; p. 173.
- Denver Hog Serum Company, The, Denver, Colo. Serum for the prevention of hog-cholera. No. 142,979; May 24; v. 286; p. 845.
- Denver Rock Drill Manufacturing Company, The, Denver, Colo. Hoists. No. 138,804; Jan. 11; v. 282; p. 376.
- Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drills, drill-sharpeners, drill-bits, and parts thereof. No. 149,898; Dec. 27.
- Denville Silk Co. Inc., New York, N. Y. Silks and silk fabrics in the piece. No. 147,300; Oct. 11.
- Denzel, William, *et al.* (See Raymond, Le Roy, assignor.) Denzer & Nathan Inc., New York, N. Y. Cotton piece goods. No. 139,928; Feb. 22; v. 283; p. 758.
- Denzer & Nathan Inc., New York, N. Y. Cotton piece goods. No. 145,256; July 26; v. 288; p. 821.
- De Pree Chemical Company, The, Holland, Mich. Complexion-powder. No. 140,791; Mar. 29; v. 284; p. 943.
- De Pass, Addison R., Columbia, S. C. Shooting device called sling-shot. No. 142,912; May 24; v. 286; p. 843.
- Dependable Truck and Tractor Company, Galesburg, Ill. Motor-trucks. No. 146,452; Sept. 6; v. 290; p. 209.
- Deputy, E. R., Company Inc., Lincoln, Nebr. Overalls. No. 141,108; Apr. 12; v. 285; p. 380.
- Dermatological Research Laboratories, Philadelphia, Pa. Pharmaceutical compound. No. 141,109; Apr. 12; v. 285; p. 380.
- Dermatological Research Laboratories, Philadelphia, Pa. Medicine compound derived from an extract of araroba. No. 143,931; June 21; v. 287; p. 578.
- Derryvale Linen Company, New York, N. Y. Writing-paper. No. 142,981; May 24; v. 286; p. 845.
- Desert Wonder Soap Company, Long Beach, Calif. Soap. No. 147,980; Nov. 8.
- De Servais, Antoinette M., Montreal, Quebec, Canada. Cereal foods for infants and adults. No. 145,315; Aug. 2; v. 289; p. 177.
- Desmarest, Godard, Paris, France. Pills for treatment of anemia. No. 140,792; Mar. 29; v. 284; p. 943.
- Des Moines Tent & Awning Company, Des Moines, Iowa. Tents and tent-sheds. No. 149,659; Dec. 20.
- Detroit Automatic Scale Company, Detroit, Mich., assignor to The Computing Scale Company, Dayton, Ohio. Weighing-scales. No. 145,257; July 26; v. 288; p. 821.
- Detroit Beef Company, Detroit, Mich. Butter and eggs. No. 149,660; Dec. 20.
- Detroit Bevel Gear Company, Detroit, Mich. Certain gears and differential cases for vehicle rear axles. No. 149,032; Dec. 6.
- Detroit Beverage Company, Detroit, Mich. Malt beverages. No. 142,863; May 17; v. 286; p. 638.
- Detroit Dental Manufacturing Company, Detroit, Mich. Dental specialties. No. 143,846; June 14; v. 287; p. 399.
- Detroit Free Press, The, Detroit, Mich. Newspapers. No. 140,793; Mar. 22; v. 284; p. 750.
- Detroit Steering Wheel Corp., Detroit, Mich. Automobile steering-wheels. No. 143,797; June 7; v. 287; p. 190.
- Detroit White Lead Works, Detroit, Mich. Paints and painters' materials. No. 140,584; Mar. 22; v. 284; p. 744.
- Deutsche Conservierungsgesellschaft mit beschränkter Haftung, Marienfelde, near Berlin, Germany. Varnishes and lacquers. No. 142,255; May 10; v. 286; p. 404.
- Devenny, James L., Orbisonia, Pa. Time-glasses. No. 140,793; Mar. 29; v. 284; p. 943.
- Devlin, Joseph L., Lovell, Wyo. Board or table games. No. 142,501; May 17; v. 286; p. 626.
- Devoo & Reynolds Co. Inc., New York, N. Y. Oil-paint for flat wall-finish. No. 146,211; Sept. 6; v. 290; p. 198.
- Devoo & Reynolds Co., Inc., New York, N. Y. Paints, enamels, wood-stains, varnishes. No. 146,566; Sept. 13; v. 290; p. 421.
- Devoo & Reynolds Co. Inc., New York, N. Y. Paste and ready-mixed paints and wall finishes—namely, cold-water paints. No. 147,053; Sept. 27; v. 290; p. 808.
- De Vol, I. C., Hardware Co., Council Bluffs, Iowa. Warm-air furnace burning coal, wood, oil, or other fuel. No. 138,608; Jan. 4; v. 282; p. 186.
- Devonde Laboratories, Houston, Tex. Shoe-dressing. No. 147,981; Nov. 8.
- Dewes, A., Company, The, New York, N. Y. Electrical appliances. No. 144,380; July 5; v. 288; p. 192.
- Dewey, Edward B., Washington, D. C., and Winsted, Conn. Hairpins not of precious metals. No. 149,033; Dec. 6.
- Dewhurst, Thomas B., Lexington, Ky. Automobile-head-light lenses. No. 138,805; Jan. 11; v. 282; p. 376.
- Dewitt, E. C., Co. Inc., Chicago, Ill. Preparation for treatment of bruises, scalds, &c. No. 145,945; Aug. 23; v. 289; p. 787.
- De Witt-La France Co., Cambridge, Mass. Fountain-pens and magazine-pencils. No. 140,364; Mar. 15; v. 284; p. 580.
- Dexter Yarn Company, Pawtucket, R. I. Yarns and threads. Nos. 141,100-12; Apr. 12; v. 285; p. 380.
- Dexter Yarn Company, Pawtucket, R. I. Yarns and threads. No. 145,072; July 26; v. 288; p. 812.
- De Zeng, Henry L., Camden, N. J. Medical and surgical appliances. No. 148,575; Nov. 15.
- Diamant, Bernahd, New York, N. Y. Liniment for external use for rheumatism, &c. No. 143,961; June 21; v. 287; p. 579.
- Diamantbewerders Koperen Stelenfonds "Nieuwe Levenskracht, Amsterdam, Holland. Tools for diamond-cutters. No. 147,982; Nov. 8.
- Diamond Chemical Co., San Francisco, Calif. Artificial mineral water. No. 146,725; Sept. 20; v. 290; p. 633.
- Diamond Felt Initial Co. Inc., New York, N. Y. Felt initial-fillers for embroidery. No. 141,921; May 3; v. 286; p. 184.
- Diamond Food Products Corporation, Pittsburgh, Pa. Malt extract. No. 140,108; Mar. 8; v. 284; p. 364.
- Diamond Iron Works, Minneapolis, Minn. Sawmill-hogs. No. 141,922; May 3; v. 286; p. 184.
- Diamond Metal Weather Strip Co., Columbus, Ohio. Metal weather-stripping. No. 147,983; Nov. 8.
- Diamond Mills. (See West Side Hay & Grain Co., assignor.)
- Diamond Potash Company, Chicago, Ill. Potash, phosphates, and chemical fertilizers. No. 142,982; May 24; v. 286; p. 845.
- Diamond Pure Food Company, Jeffersonville, Ind. Cake, wafers, and pancake-flour. No. 146,726; Sept. 20; v. 290; p. 633.
- Diamond, Samuel, New York, N. Y. Neckbands. No. 142,502; May 17; v. 286; p. 626.
- Diamond State Fibre Company, Elmsere, Del., and Bridgeport, Pa. Electrical insulating material. No. 141,532; Apr. 26; v. 285; p. 779.
- Diamond Whip Company, Chicago, Ill. Whips. No. 149,899; Dec. 27.
- Diana Waist Co., Inc., New York, N. Y. Ladies' shirt-waists. No. 142,256; May 10; v. 286; p. 404.
- Diaz, Juan, Vaquero, Seville, Spain. Olive-oil. No. 139,150; Jan. 25; v. 282; p. 734.
- Di Brenle Mfg. Co., Cleveland, Ohio. Face-powder. No. 139,288; Feb. 1; v. 283; p. 168.
- Dick, Simon, Paris, France. Hand-operated rotary fans. No. 141,533; Apr. 26; v. 285; p. 779.
- Dickhudt, John H., St. Paul, Minn. Ice-cream cones or cornets. No. 138,609; Jan. 4; v. 282; p. 186.
- Dick's Asbestos Company, London, England. Packing and hose of all kinds made of asbestos. No. 148,389; Nov. 15.
- Dicks, David Co., Inc., New York, N. Y. Anilin and other dyestuffs, &c. No. 147,984; Nov. 8.
- Dickinson, Don M., Jr., Detroit, Mich. Chewing-gum. No. 141,347; Apr. 19; v. 285; p. 566.
- Dickinson, Don M., Jr., Detroit, Mich. Chewing-gum. No. 141,534; Apr. 26; v. 285; p. 779.
- Dickson Raincoat Co., Dickson, Tenn. Raincoats, waterproof overalls and jumpers, and leggings. No. 147,453; Oct. 18.
- Diffenbacher, Mark M., San Francisco, Calif., assignor to Ellamoor Candy Company, Reno, Nev. Candies. No. 140,794; Mar. 29; v. 284; p. 943.
- Diffenbacher, Mark M., San Francisco, Calif. Spearmint candy. No. 142,983; May 24; v. 286; p. 845.
- Dilas, George S., & Company, Bay City, Mich. Bonbons and chocolates. No. 148,814; Nov. 29.
- Dill Company, The, Norristown, Pa. Certain named medicinal preparation. No. 146,727; Sept. 20; v. 290; p. 633.
- Dill, Herbert E., Hingham, Mass. Toys in the nature of planchettes. No. 145,347; Aug. 2; v. 289; p. 178.
- Dill Manufacturing Company, The, Cleveland, Ohio. Pneumatic-tire fittings of metal. No. 140,267; Mar. 8; v. 284; p. 370.
- Dille & McGuire Mfg. Co., Richmond, Ind. Lawn-mowers. Nos. 145,258-63; July 26; v. 288; p. 821-2.
- Dille & McGuire Mfg. Co., Richmond, Ind. Lawn-mowers. Nos. 147,985-91; Nov. 8.



*Alphabetical list of registrants of trade-marks—Continued.*

- Diller, Howard E., Salina, Kans. Pile remedy. No. 143,932; June 21; v. 287; p. 578.
- Dilling & Company, Indianapolis, Ind. Chocolate candy. No. 143,583; June 7; v. 287; p. 182.
- Dilling & Company, Indianapolis, Ind. Candy—namely, chocolate bars. No. 143,584; June 7; v. 287; p. 182.
- Dilling & Company, Indianapolis, Ind. Chocolate-bar candy. No. 143,585; June 7; v. 287; p. 182.
- Dilling & Company, Indianapolis, Ind. Candy—namely, chocolate bars. No. 144,741; July 19; v. 288; p. 617.
- Dilling & Company, Indianapolis, Ind. Chocolate candy. No. 144,742; July 19; v. 288; p. 617.
- Dilling & Company, Indianapolis, Ind. Chocolate bars. No. 144,743; July 19; v. 288; p. 617.
- Dilling & Company, Indianapolis, Ind. Candy. No. 144,744; July 19; v. 288; p. 617.
- Dilling & Company, Indianapolis, Ind. Chocolate bars. No. 144,745; July 19; v. 288; p. 617.
- Dilling & Company, Indianapolis, Ind. Old-fashioned raffy candy. No. 145,348; Aug. 2; v. 289; p. 178.
- Dilling & Company, Indianapolis, Ind. Candy kisses. No. 146,982; Sept. 27; v. 290; p. 804.
- Dillon, Earl P., Fort Wayne, Ind. Medicine for itching, sore, swollen, tired, &c., feet. No. 139,977; Mar. 1; v. 284; p. 173.
- Dillon Pulley Company, Wilmette, Ill. Pulleys for window-sash cord. No. 140,035; Mar. 1; v. 284; p. 176.
- Dino Electric Appliance Corporation, New York, N. Y. Electric flash-lamps. No. 144,750; July 19; v. 288; p. 617.
- Dinou Brothers, Chicago, Ill. Chocolate candies. No. 145,551; Aug. 9; v. 289; p. 407.
- Dionol Company, The, Detroit, Mich. Preparation for the relief of local inflammation in various parts of the body. No. 140,365; Mar. 15; v. 284; p. 580.
- Diozine Chemical Co., Ludlow, Vt. Cleaning composition for fabrics. No. 144,187; June 28; v. 287; p. 774.
- Direct News Service, San Francisco, Calif. Publication published daily. No. 145,073; July 26; v. 288; p. 812.
- Di Salvo, Joseph, Brooklyn, N. Y. Medicinal preparations. No. 143,457; May 31; v. 286; p. 1052.
- Dispatch Publishing Company, The, Pittsburgh, Pa. Newspaper-section. Nos. 149,661-2; Dec. 20.
- Disette, John W., Washington, D. C., and Indianapolis, Ind. Devices for producing spark-gaps in ignition-circuits of internal-combustion engines. No. 139,518; Feb. 8; v. 283; p. 350.
- Disston, Henry & Sons, Incorporated, Philadelphia, Pa. Saws. Nos. 142,864-5; May 17; v. 286; p. 638.
- District of Columbia Paper Manufacturing Company, Alexandria, Va., and Washington, D. C. Blotting, box, and cover papers. Nos. 139,929-30; Feb. 22; v. 283; p. 758.
- District of Columbia Paper Manufacturing Company, Alexandria, Va., and Washington, D. C. Box and cover papers. No. 140,036; Mar. 1; v. 284; p. 176.
- District of Columbia Paper Manufacturing Company, Alexandria, Va., and Washington, D. C. Cover and box papers. Nos. 142,984-5; May 24; v. 286; p. 845.
- District of Columbia Paper Manufacturing Company, Alexandria, Va., and Washington, D. C. Blotting, box, cover, and text-book papers. No. 143,586; June 7; v. 287; p. 182.
- Dittsheim, Paul S. A., La Chaux-de-Fonds, Switzerland. Timepieces. Nos. 139,786-9; Feb. 22; v. 283; p. 752.
- Ditzler Color Company, Detroit, Mich. Paste and dry paints, varnishes, primers, &c. No. 148,390; Nov. 15.
- Dixie Fruit Products Corporation, New York, N. Y. Vinegar and canned fruits and vegetables. No. 138,961; Jan. 18; v. 282; p. 554.
- Dixie Ice Cream Company, Lexington, Ky. Ice-cream. No. 144,746; July 19; v. 288; p. 617.
- Dixie Mercerizing Company, Chattanooga, Tenn. Yarns. No. 149,368; Dec. 13.
- Dixie Mills, Adams, Tenn. Feeder for hogs. No. 141,535; Apr. 26; v. 285; p. 779.
- Dixon, Joseph, Crucible Company, Jersey City, N. J. Graphite. No. 139,131; Jan. 25; v. 282; p. 733.
- Dixon, Joseph, Crucible Company, Jersey City, N. J. Certain coating. No. 140,109; Mar. 8; v. 284; p. 364.
- Dixon, Joseph, Crucible Company, Jersey City, N. J. Composition consisting of mineral oil, graphite, and carbon for application to metal surfaces. No. 140,366; Mar. 15; v. 284; p. 580.
- Dixon, Joseph, Crucible Company, Jersey City, N. J. Rubber erasers. No. 142,257; May 10; v. 286; p. 404.
- Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. No. 143,316; May 31; v. 286; p. 1048.
- Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. No. 147,992; Nov. 8.
- Doane, Glendon B., Boston, Mass. Tool and machine handles and ferrules. No. 149,663; Dec. 20.
- Dobbs, John F., Salem, Oreg. Soap in paste form. No. 148,815; Nov. 29.
- Dobson, John, & James, Inc., New York, N. Y. Plush coats for ladies and misses. No. 147,844; Nov. 1.
- Dockendorff, J. E., & Co., Inc., New York, N. Y. Wire for electrical purposes. No. 139,712; Feb. 15; v. 283; p. 541.
- Dr. O. W. Green and Dr. L. O. Green, Chicago, Ill. Anti-septic ointment. No. 141,753; Apr. 26; v. 285; p. 788.
- Doctor's Essential Foods Co., Orange, N. J. Bread. No. 147,993; Nov. 8.
- Dodd, Dorothy, Shoe Company, Boston, Mass. Shoe-laces, shoe-horns, and button-hooks. No. 142,503; May 17; v. 286; p. 626.
- Dodd, William E., New York, N. Y. Silk, velvet, and cotton ribbons. No. 138,806; Jan. 11; v. 282; p. 376.
- Dodge Brothers, Detroit, Mich. Motor-vehicles and parts thereof. No. 144,522; July 5; v. 288; p. 198.
- Dodge City Oil & Refining Co., The, Dodge City, Kans. Lubricating-oil. No. 139,519; Feb. 8; v. 283; p. 350.
- Dodge-Hooker Mills, Wausau, Wis. Mixed-grain ration for dairy-cattle. No. 143,239; May 24; v. 286; p. 855.
- Dodge Sales & Engineering Co., Mishawaka, Ind. Steel pulleys. No. 145,074; July 26; v. 288; p. 812.
- Dodson, J. G., Atlanta, Ga. Medicinal tablet for certain purposes. No. 149,764; Dec. 20.
- Dogen, Willis M., Atlanta, N. Y. Preparation used in treatment of excessive perspiration of the feet. No. 141,113; Apr. 12; v. 285; p. 380.
- Doherty, Aloysius J., Chicago, Ill. Medicinal preparation. No. 145,946; Aug. 23; v. 289; p. 787.
- Doherty Phonograph Company, Inc., Chicago, Ill. Phonographs and parts thereof and records and needles. No. 145,886; Aug. 16; v. 289; p. 601.
- Dollfus Mieg & Cie. Societe Anonyme, Mulhouse, France. Embroideries and notions. No. 143,933; June 21; v. 287; p. 578.
- Dollfus Mieg & Cie. Societe Anonyme, Mulhouse, France. Threads, twists, yarns. No. 143,934; June 21; v. 287; p. 578.
- Dollfus Mieg & Cie. Societe Anonyme, Mulhouse, France. Certain named embroideries and notions. No. 143,935; June 21; v. 287; p. 578.
- Dollfus Mieg & Cie. Societe Anonyme, Mulhouse, France. Threads, twist, yarns. No. 143,936; June 21; v. 287; p. 578.
- Dollfus Mieg & Cie. Societe Anonyme, Mulhouse, France. Ribbons, laces, tulles, and woven fabrics in the piece. Nos. 145,947-8; Aug. 23; v. 289; p. 787.
- Dollfus Mieg & Cie. Societe Anonyme, Mulhouse, France. Instruction-books and printed matter issued from time to time. Nos. 147,302-3; Oct. 11.
- Dollfus Mieg & Cie. Societe Anonyme, Mulhouse, France. Hosiery. Nos. 147,587-8; Oct. 25.
- Dolman, Caroline, Oakland, Calif. Candy. No. 139,263; Feb. 1; v. 283; p. 168.
- Dolph, John C., Company, Newark, N. J. Electrical insulating-lacquer comprised of semifossil gum dissolved in alcohol. No. 140,367; Mar. 15; v. 284; p. 580.
- Domestic Mills Company, Inc., Lowell, Mass. Silk, wool, cotton, &c., yarns and floss. No. 149,034; Dec. 6.
- Domestic Sewing Machine Co., Inc., Buffalo, N. Y. Sewing-machines. No. 147,207; Oct. 4.
- Donahay, William, Chicago, Ill. Newspaper-sections. No. 145,651; Aug. 16; v. 289; p. 593.
- Donahay, William, Chicago, Ill. Cut-out dolls. No. 148,816; Nov. 29.
- Donahue Manufacturing Corporation, New Rochelle, N. Y. Children's toys and playthings. No. 147,994; Nov. 8.
- Donahoe's, Inc., Pittsburgh, Pa. Bread, candies, coffees, teas, oleomargarin, &c. No. 143,240; May 24; v. 286; p. 855.
- Donald, William G., Oakland, Calif. Sink-flushers. No. 149,900; Dec. 27.
- Donald Shoe Company, The, Philadelphia, Pa. Leather shoes. No. 147,766; Nov. 1.
- Donnelley, Reuben H., Corporation, The, Chicago, Ill. Telephone-directories published semiyearly. No. 148,232; Nov. 8.
- Donner, Joseph, Chicago, Ill. Depilatories. No. 147,208; Oct. 4.
- Donnet, Louis, Nice, France. Substitute for coffee. No. 148,391; Nov. 15.
- Donoho, Robert D., Los Angeles, Calif. Syrup for table and food flavoring. No. 141,923; May 3; v. 286; p. 184.
- Dorety, W. P., Los Angeles, Calif. Motion-picture films. No. 141,924; May 3; v. 286; p. 184.
- Dorf, Jacob, New York, N. Y. Ladies' coats and suits. No. 140,585; Mar. 22; v. 284; p. 744.
- Dorfman & Korman, New York, N. Y. Ladies' petticoats, bloomers, corset-covers, &c. No. 146,212; Sept. 6; v. 290; p. 199.
- Dorfman, Meyer, New York, N. Y. Jersey-cloth in the piece. No. 146,081; Aug. 30; v. 289; p. 1013.
- Dorfmann, Irving A., New York, N. Y. Malt extract. No. 145,503; Aug. 2; v. 289; p. 184.
- D'Orlando & Co., Ltd., Boston, Mass. Chocolate candy. No. 142,504; May 17; v. 286; p. 626.
- Dorothy Dodd Shoe Company, Boston, Mass. Boots, shoes, and slippers. No. 140,586; Mar. 22; v. 284; p. 744.
- Dorrance & Company, Inc., Philadelphia, Pa. Printed books. No. 148,392; Nov. 15.
- Dorris Motor Car Company, St. Louis, Mo. Automobiles. No. 148,327; Nov. 8.
- Dorsey, Charles J., Baltimore, Md. Card games. No. 142,05; May 17; v. 286; p. 626.
- Doss Rubber & Tube Co., The, Inc., Atlanta, Ga. Rubber tires. Nos. 144,993-5; July 19; v. 288; p. 626.
- Doss Rubber & Tube Co., Inc., The, Atlanta, Ga. Rubber tires. No. 146,454; Sept. 6; v. 290; p. 210.
- Dottenheim, Mark, New York, N. Y. Pearls. Nos. 142,506-9; May 17; v. 286; p. 626.



- Doty, Clarence A., Lakewood, Ohio. Soap. No. 148,759; Nov. 22.
- Double Fabric Tire Company, The, Auburn, Ind. Rubber pneumatic tires and tubes and tire accessories. No. 147,995; Nov. 8.
- Doublene Oil Co., Chicago, Ill. Lubricating-oils. No. 149,901; Dec. 27.
- Douchetts Product Company, Cleveland, Ohio. Douche in tablet form. No. 141,925; May 3; v. 286; p. 184.
- Doughboy Tractors, The, Dallas, Tex. Tractors. No. 141,254; Apr. 12; v. 285; p. 385.
- Douglas Fir Exploitation Co., San Francisco, Calif. Lumber. No. 142,986; May 24; v. 286; p. 845.
- Douglas Nu-Wa Co., Crete, Nebr. Bathroom and kitchen cleanser. No. 140,110; Mar. 8; v. 284; p. 364.
- Douglass Barnes Corporation, New York, N. Y. Coal and coke. No. 143,317; May 31; v. 286; p. 1048.
- Douthitt, Jas. W., Bedford, Ind. Medicinal preparations. No. 141,926; May 3; v. 286; p. 184.
- Dover Manufacturing Company, Dover, Ohio. Electric sadirons. No. 144,111; June 21; v. 287; p. 586.
- Dover Manufacturing Company, The, Dover, Ohio. Electric sadirons. No. 145,887; Aug. 16; v. 287; p. 601.
- Dover Manufacturing Company, The, Dover, Ohio. Automatic electric sadirons. No. 147,996; Nov. 8.
- Dover Manufacturing Company, The, Dover, Ohio. Electric sadirons. No. 147,997; Nov. 8.
- Dover Textile Company, New York, N. Y. Silk and textile fabrics in the piece. No. 140,587; Mar. 22; v. 284; p. 744.
- Dow Chemical Company, The, Midland, Mich. Chemicals. No. 140,588; Mar. 22; v. 284; p. 744.
- Dow Chemical Company, The, Midland, Mich. Light metal alloys and castings and forgings. No. 144,747; July 19; v. 288; p. 617.
- Dowling, G. P., Hardware Co., Ozark, Ala. Plow shares or scrapes. No. 141,927; May 3; v. 286; p. 184.
- Doxie, Walter B., San Francisco, Calif. Oils for use in paints. No. 142,987; May 24; v. 286; p. 845.
- Doyle, James A., New York, N. Y. Woolen goods in the piece. No. 149,902; Dec. 27.
- Drain, M. D., Shepherd, Baltimore, Md. Medicinal preparations. No. 142,126; May 3; v. 286; p. 190.
- Drain, Shepherd, M. D., Baltimore, Md. Remedy for constipation. No. 146,983; Sept. 27; v. 290; p. 804.
- Drake, Geo. W., San Antonio, Tex. Chemical compound. No. 139,132; Jan. 25; v. 282; p. 733.
- Drake, J. A., and Sons, Reedley, Calif. Valves for internal-combustion engines. No. 143,318; May 31; v. 286; p. 1048.
- Drake, Murray C., Binghamton, N. Y. Dental cream. No. 147,087; Oct. 4.
- Drake, Orange M., Salt Lake City, Utah. Polishing materials. No. 147,304; Oct. 11.
- Draper Manufacturing Company, The, Cleveland, Ohio. Sheet-metal drums and barrels. No. 140,111; Mar. 8; v. 284; p. 364.
- Draper, Thomas B., Detroit, Mich. Quilts, sheets, and pillow-cases. No. 144,748; July 19; v. 288; p. 617.
- Draughton, John F., Nashville, Tenn. Printed books. No. 147,998; Nov. 8.
- Dresso Polish Co., The, Norwich, Conn. Polish for pianos and automobiles. No. 147,305; Oct. 11.
- Drevet Mfg. Co., The, New York, N. Y. Peroxid of hydrogen. No. 141,348; Apr. 19; v. 285; p. 566.
- Dreyfus, L. A., Co., New York, N. Y. Gum used in the manufacture of chewing-gum. No. 144,749; July 19; v. 288; p. 617.
- Dreyfus, L. A., Co., New York, N. Y. Gum used in the manufacture of chewing-gum. No. 145,075; July 26; v. 288; p. 812.
- Dreyfus, Leo, New York, N. Y. Aromatic alkaline powder for mouth and tooth washes. No. 148,817; Nov. 29.
- Driver-Harris Company, Harrison, N. J. Boxes, retorts, baskets, and pots. No. 140,795; Mar. 29; v. 284; p. 943.
- Drucker & Lindy, Irvington, N. J. Fresh eggs. No. 145,076; July 26; v. 288; p. 812.
- Drug Products Co., Inc., New York, N. Y. Certain chemical and medicinal preparations. No. 148,818; Nov. 29.
- Druiggist Sundries Company Limited, Vancouver, British Columbia, Canada, assignor to Lash's Bitters Company, San Francisco, Calif. Beverages. No. 141,114; Apr. 12; v. 285; p. 380.
- Druiggist Wholesale Supply Corporation, San Francisco, Calif. Preparations for medicinal purposes. No. 145,652; Aug. 16; v. 289; p. 593.
- Druid Oak Belting Company, Inc., The, Baltimore, Md. Waterproof machine-belted made of leather. No. 143,319; May 31; v. 286; p. 1048.
- Dry Goods Alliance, Inc., The, New York, N. Y. Snap-fasteners, hooks and eyes, &c. No. 138,610; Jan. 4; v. 282; p. 186.
- Dry Milk Company, The, New York, N. Y. Casein food product. No. 145,077; July 26; v. 288; p. 812.
- Dry Oil Products, Ltd., London, England, and New York and Trout Creek, N. Y. Dry pulverulent mixtures employed as a shortening agent in cooking. No. 146,082; Aug. 30; v. 289; p. 1013.
- Dry Oil Products Ltd., London, England, and New York and Trout Creek, N. Y. Medicinal preparation. No. 147,999; Nov. 8.
- Dryden Rubber Company, Chicago, Ill. Automobile-tires composed of rubber and combinations thereof. No. 138,758; Jan. 4; v. 282; p. 191.
- Dryfoos-Tiedmann Co., Inc., New York, N. Y. Cotton piece goods. No. 142,258; May 10; v. 286; p. 404.
- Dryzol Chemical Co., The, Buffalo, N. Y. Skin-lotion. No. 140,368; Mar. 15; v. 284; p. 380.
- Dubinski, Benjamin, San Antonio, Tex. Storage batteries. No. 146,455; Sept. 6; v. 290; p. 210.
- Du Bois, H. W., & Co., New York, N. Y., and Boston, Mass. Typewriter-ribbons and carbon-paper. No. 145,078; July 26; v. 288; p. 812.
- Du Bois Laboratories, New York, N. Y. Urinalysis-cabinets. No. 149,903; Dec. 27.
- Du Bois Rubber & Tube Company, Chattanooga, Tenn. Rubber tires and tubes. Nos. 149,904-5; Dec. 27.
- Dubuque Spiral Harrow Co., Dubuque, Iowa. Spiral harrow. No. 138,807; Jan. 11; v. 282; p. 376.
- Duden, Alice G. H., Indianapolis, Ind. Antiseptic mouth-washes. No. 145,049; Aug. 23; v. 289; p. 787.
- Dudley Lumber Company, Inc., Memphis, Tenn. Logs and rough lumber. No. 142,988; May 24; v. 286; p. 845.
- Dudman Drug & Chemical Co., Charleston, S. C. Cough-syrup. No. 138,611; Jan. 4; v. 282; p. 186.
- Duffee, J. W., Mfg. Co., Washington Court-House, Ohio. Preparation for coughs, colds, croup, &c. No. 141,928; May 3; v. 286; p. 184.
- Dulle-Meyer Milling Company, Chamois, Mo. Wheat-flour. No. 143,798; June 7; v. 287; p. 190.
- Dultmeier Manufacturing Company, Manning, Iowa. Wagon-bounds. No. 145,654; Aug. 16; v. 289; p. 593.
- Dunbar, Guy S., New York, N. Y. Indigestion remedy. No. 143,937; June 21; v. 287; p. 579.
- Duncan, Cecil T., Quincy, Mass. Toilet, medicinal, and pharmaceutical preparations. No. 146,213; Sept. 6; v. 290; p. 199.
- Duncan, J. Company, Everett, Mass. Overhead tramway-switches. No. 144,112; June 21; v. 287; p. 586.
- Duncan, J., Company, Everett, Mass. Overhead tramway-switches. No. 145,552; Aug. 9; v. 289; p. 407.
- Dunklau, William J., Chicago, Ill. Foods. No. 139,520; Feb. 8; v. 283; p. 350.
- Dunlap Shoe Co., The, Columbus, Ohio. Children's shoes made of leather, canvas, and other fabric material. No. 138,899; Jan. 11; v. 282; p. 380.
- Dunlop America Limited, Buffalo, N. Y. Golf-balls. No. 142,989; May 24; v. 286; p. 845.
- Dunlop Rubber Company Limited, The, London, England. Repair outfits for tires. No. 149,369; Dec. 13.
- Dunlop Rubber Company Limited, The, London, England. Tires. No. 143,587; June 7; v. 287; p. 182.
- Dunlop Tire and Rubber Corporation of America, Tonawanda, N. Y. Rubber tires and parts thereof. No. 146,728; Sept. 20; v. 290; p. 633.
- Dunn Edge Tool Co., Oakland, Me. Scythes and axes. No. 145,553; Aug. 9; v. 289; p. 407.
- Dunn, John, Son & Co., New York, N. Y. High-strain galvanized wire. Nos. 141,536-7; Apr. 26; v. 285; p. 779.
- Dunn, John, Son & Co., New York, N. Y. Wire and steel or iron hoops. No. 146,214; Sept. 6; v. 290; p. 199.
- Dunn, John, Son & Co., New York, N. Y. Painters' materials. No. 149,370; Dec. 13.
- Dunn, John, Son & Co., New York, N. Y. Lubricating oils and greases. No. 149,906; Dec. 27.
- Dunn & McCarthy, Auburn, N. Y. Shoes. No. 142,510; May 17; v. 286; p. 626.
- Dunn Pen Company, Inc., New York, N. Y. Fountain-pens. Nos. 149,035-7; Dec. 6.
- Dunne-McCord Company Inc., Syracuse, N. Y., and Evansville, Ind. Compound of malt, hops, and sugar for making a beverage. No. 147,088; Oct. 4.
- Dunsmore, Grace M., New York, N. Y. Paper facial cloth and paper toweling. No. 141,115; Apr. 12; v. 285; p. 380.
- Dunwody, Richard G., Atlanta, Ga. Compound for treating coughs, colds, bronchitis, &c. No. 142,990; May 24; v. 286; p. 845.
- Duodisk Steel Wheel Corporation, Los Angeles, Calif. Vehicle-wheels. No. 145,349; Aug. 2; v. 289; p. 178.
- Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. No. 140,369; Mar. 15; v. 284; p. 581.
- Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 145,079-80; July 26; v. 288; p. 812.
- Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. No. 146,215; Sept. 6; v. 290; p. 199.
- Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. No. 147,089; Oct. 4.
- Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 148,393-4; Nov. 15.
- Duplex Printing Press Co., Battle Creek, Mich. Rotary printing-presses, stereotype-casting boxes, &c. No. 142,866; May 17; v. 286; p. 638.
- Duplex Shock Absorber Corp., Chicago, Ill. Vehicle shock-absorbers. No. 149,038; Dec. 6.
- Du Pont, E. I., de Nemours & Co., Wilmington, Del., and New York, N. Y. Lithopone. No. 138,808; Jan. 11; v. 282; p. 376.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Ready-mixed paints. No. 139,521; Feb. 8; v. 283; p. 350.



*Alphabetical list of registrants of trade-marks—Continued.*

- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Polishes acting as grease-removers and cleaning materials. No. 140,112; Mar. 8; v. 284; p. 364.
- Du Pont, E. I., de Nemours & Co., Wilmington, Del. Ready-mixed paints. No. 141,929; May 3; v. 286; p. 184.
- Du Pont, E. I., de Nemours Company, Wilmington, Del. Dyestuffs. No. 142,366; May 10; v. 286; p. 408.
- Du Pont, E. I., de Nemours Company, Wilmington, Del. Dyestuffs. No. 142,368; May 10; v. 286; p. 408.
- Du Pont, E. I., de Nemours & Company. (See Du Pont Fabrikoid Company, assignor.)
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Dyestuffs. Nos. 143,588-93; June 7; v. 287; p. 183.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Dyestuffs. No. 145,655; Aug. 16; v. 289; p. 593.
- Du Pont, E. I., de Nemours & Company, Wilmington, Del. Dyestuffs. No. 148,819; Nov. 29.
- Du Pont Fabrikoid Company, assignor to E. I. Du Pont de Nemours & Company, Wilmington, Del. Imitation or artificial leather. No. 142,991; May 24; v. 286; p. 845.
- Du Pont Motors, Inc., Wilmington, Del. Automobiles. No. 140,370; Mar. 15; v. 284; p. 581.
- Du Pont Young Corporation, Boston, Mass. Dental, medical, and surgical supplies. No. 139,522; Feb. 8; v. 283; p. 350.
- Duquesne Steel Foundry Company, Pittsburgh, Pa. Steel castings. No. 139,289; Feb. 1; v. 283; p. 168.
- Duquesne Steel Foundry Company, Pittsburgh, Pa. Ferrous metals. Nos. 147,589-91; Oct. 25.
- Dura Mechanical Hardware Co., Inc., Toledo, Ohio. Window-regulators. No. 149,907; Dec. 27.
- Dural Rubber Corp., Flemington, N. J. Automobile inner tubes. No. 139,736; Feb. 15; v. 283; p. 543.
- Dural-elec Corporation, The, Jamestown, N. Y. Electric heating devices, particularly cigar-lighters and water-heaters. No. 144,562; July 12; v. 288; p. 423.
- Duralex Company, The, Newark, N. J. Coated textile fabrics. No. 143,594; June 7; v. 287; p. 183.
- Durham Cotton Mfg. Co., East Durham, N. C. Denims in the piece. No. 146,456; Sept. 6; v. 290; p. 210.
- Durham Hosiery Mills, Durham, N. C. and New York, N. Y. Hosiery. No. 147,845; Nov. 1.
- Durham Manufacturing Company, The, Muncie, Ind. Fireless stoves. No. 142,511; May 17; v. 286; p. 626.
- Du-Rite Products Co., New York, N. Y. Liquid preparation for polishing finished surfaces. No. 149,664; Dec. 20.
- Durkee-Davis Manufacturing Company, Rockford, Ill. Electric-light fixtures for sewing-machines. No. 148,000; Nov. 8.
- Duro Paper Products Co., Chicago, Ill. Boxes and cartons made wholly or in part of paper. No. 148,001; Nov. 8.
- Durwyllan Co., Paterson, N. J. Clutch-facings and brake-linings. No. 145,653; Aug. 16; v. 289; p. 593.
- Duryea Manufacturing Co., Bayonne, N. J. Turpentine. No. 145,350; Aug. 2; v. 289; p. 178.
- Dusco Co., The, Buffalo, N. Y. Medicine for constipation, fever, restlessness, &c. No. 146,984; Sept. 27; v. 290; p. 804.
- Dussek, Albert E. H., London, England. Certain construction materials. No. 149,908; Dec. 27.
- Dust Recovering & Conveying Company, The, Cleveland, Ohio. Dust-collecting machinery and apparatus and systems and pneumatic conveying machinery, apparatus, and systems. No. 143,938; June 21; v. 287; p. 579.
- Dutton's Mex-O Candy Co., Indianapolis, Ind. Candies. No. 142,512; May 17; v. 286; p. 626.
- Duwell Manufacturing Company, Worcester, Mass. Bench grinding-machines. No. 145,554; Aug. 9; v. 289; p. 407.
- Dux Chemical Solutions Company Limited, London, England. Prepared paper and cloth for book-covers. No. 148,002; Nov. 8.
- Dwyer, Joseph F., Seattle, Wash. Sales-boards. No. 140,371; Mar. 15; v. 284; p. 581.
- Dyer Company, The, Cambridge, Mass. Pistons. No. 144,113; June 21; v. 287; p. 587.
- Dyer, W. H., Company, Evansville, Ind. Foods. No. 141,930; May 3; v. 286; p. 184.
- Dykeman, George A., Catskill, N. Y. Ointment for eczema, salt rheum, tetter, &c. No. 139,790; Feb. 22; v. 283; p. 752.
- "Dynamo" Tulle Importing Company, The, New York, N. Y. Tulle, muslins, crapes, veilings, &c. No. 139,290; Feb. 1; v. 283; p. 168.
- E. C. Manufacturing Company, The, Elkhart, Ind. Spark-plugs for ignition systems for internal-combustion engines. No. 146,729; Sept. 20; v. 290; p. 633.
- E-Z Waist Company, The, New York, N. Y. Children's waist union-suits. No. 143,766; June 7; v. 287; p. 188.
- E-Z Waist Company, The, New York, N. Y. Underwaists, union-suits, and sleeping-garments. No. 147,308; Oct. 11.
- E-Z Waist Company, The, New York, N. Y. Underwear—namely, sleeping-garments. No. 148,401; Nov. 15.
- Eagle Brass Foundry Company, Seattle, Wash. Plumbing and steam-fitting supplies. No. 145,081; July 26; v. 288; p. 812.
- Eagle Brass Foundry Company, Seattle, Wash. Ingots, bars, and cylinders, and castings for machinery. No. 145,082; July 26; v. 288; p. 813.
- Eagle Ointment Company, Kansas City, Mo. Pile-ointment. No. 141,931; May 3; v. 286; p. 184.
- Eagle Pencil Company, New York, N. Y. Lead-pencils. Nos. 141,538-9; Apr. 26; v. 285; p. 779.
- Eagle Pencil Company, New York, N. Y. Lead-pencils. No. 148,820; Nov. 29.
- Eagle-Picker Lead Co., The, Cincinnati, Ohio. Sulfuric acid. No. 138,809; Jan. 11; v. 282; p. 376.
- Eagle Roller Mill Co., New Ulm, Minn. Wheat-flour. No. 139,523; Feb. 8; v. 283; p. 350.
- Eagle Roller Mill Co., New Ulm, Minn. Wheat-flour. No. 140,113; Mar. 8; v. 284; p. 361.
- Eagle Roller Mill Co., New Ulm, Minn. Wheat-flour. No. 145,969; Aug. 23; v. 289; p. 788.
- Eagle Rubber Co., The, Ashland, Ohio. Toy balloons. No. 144,235; June 28; v. 287; p. 775.
- Eagle Tire Patch Co., Moberly, Mo. Rubber patches. No. 149,371; Dec. 13.
- Earl & Wilson, Troy, N. Y. Collars, dress, negligée, and under shirts, and cuffs. No. 143,847; June 14; v. 287; p. 399.
- Earle Hardware Manufacturing Co., Los Angeles, Calif. Hardware for builders. No. 142,992; May 24; v. 286; p. 845.
- Earle-McGavock Milling Co., Asheville, N. C. Wheat-flour. No. 139,524; Feb. 8; v. 283; p. 350.
- Earle-McGavock Milling Company, Asheville, N. C. Wheat-flour. No. 142,599; May 17; v. 286; p. 629.
- Earle-McGavock Milling Company, Asheville, N. C. Wheat-flour. No. 142,993; May 24; v. 286; p. 845.
- Earle-McGavock Milling Company, Asheville, N. C. Wheat-flour and cornmeal. No. 143,324; May 31; v. 286; p. 1048.
- Earley, Alice W., Los Angeles, Calif. Face-cream. No. 141,287; Apr. 12; v. 285; p. 387.
- Early Foundry Co., Dickson City, Pa. Coal and coal and gas combination ranges, heating-stoves. No. 141,742; Apr. 26; v. 285; p. 787.
- Early-Stratton Co., Memphis, Tenn. Coffee. No. 138,612; Jan. 4; v. 282; p. 186.
- Early-Stratton Co., Memphis, Tenn. Coffee. No. 145,083; July 26; v. 288; p. 813.
- Earnshaw, George F., Chicago, Ill. Magazine published monthly. No. 142,259; May 10; v. 286; p. 404.
- Easiest Way Manufacturing Company, The, Sandusky, Ohio. Laundry washing and ironing machines. No. 142,199; May 3; v. 286; p. 194.
- East Brothers Coal Co., Chicago, Ill. Anthracite and bituminous coals. No. 143,939; June 21; v. 287; p. 599.
- East Coast Fisheries Products Company, Rockland, Me. Fresh fish. No. 149,372; Dec. 13.
- East, Frank A., Boston, Mass. General tonic. No. 144,381; July 5; v. 288; p. 192.
- East and West Trading Corporation, New York, N. Y. Hair-nets. No. 143,595; June 7; v. 287; p. 183.
- Eastbay Chemical Company, Emeryville, Calif. Compound for cooling the tools of metal-cutting machinery. No. 143,323; May 31; v. 286; p. 1048.
- Easterbrook Allcard & Co., Limited, Sheffield, England. Steel in rod, bar, wire-nail, sheet, and hook forms, shear-steel, &c. No. 141,829; May 3; v. 286; p. 181.
- Easterbrook Allcard & Co. Limited, Sheffield, England. Tools for hand and machine use. No. 144,382; July 5; v. 288; p. 192.
- Easterbrook Allcard & Co. Limited, Sheffield, England. Certain metal-working tools, vises, saws, spanners, and wrenches, &c. No. 148,821; Nov. 29.
- Eastern Art Shop, New York, N. Y. Shades of glazed fabric. No. 149,039; Dec. 6.
- Eastern District Piece Dye Works, Inc., Brooklyn, N. Y. Silk piece goods. No. 148,822; Nov. 29.
- Eastern Felt Company, Winchester, Mass. Felt polishing-wheels and felts therefor. No. 148,823; Nov. 29.
- Eastern Finishing Works Inc., Kenyon, R. I. Waterproofed tents, tent-flies, tarpaulins, &c. No. 140,589; Mar. 22; v. 284; p. 744.
- Eastern Finishing Works, Inc., Kenyon, R. I. Plain and waterproofed tents, tent-flies, tarpaulins, and protective covers. No. 140,796; Mar. 29; v. 284; p. 943.
- Eastern Nail Company, Inc., Providence, R. I. Nails. No. 147,481; Oct. 18.
- Eastern Tube & Tool Company, Inc., Brooklyn, N. Y. Armored conductors and flexible steel conduits. No. 148,824; Nov. 29.
- Eastlite Electric Company, Louisville, Ky. Unitary electric-light plants. No. 149,665; Dec. 20.
- Eastman Chemical Co., Cincinnati, Ohio. Medical compound in salve form. No. 147,090; Oct. 4.
- Eastman Kodak Company, Rochester, N. Y. Photographic film. No. 141,932; May 3; v. 286; p. 184.
- Eastman Salt Products Company, The, Saginaw, Mich. Salt. No. 140,114; Mar. 8; v. 284; p. 364.
- Easy Wash Laundry Tablet Co., Tyrone, Pa. Laundry tablets. No. 142,513; May 17; v. 286; p. 626.
- Eaton, Crane & Pike Company, Pittsfield, Mass. Paper and stationery. No. 144,114; June 21; v. 287; p. 587.
- Eaton, Marshall B., Canandaigua, N. Y. Combination gas-intake deflectors and gaskets. No. 149,909; Dec. 27.
- Eberhard Faber Pencil Co., Brooklyn, N. Y. Ordinary lead-pencils, magazine and automatic lead-pencils, &c. No. 139,525; Feb. 8; v. 283; p. 350.
- Eberhart, Jessica C., Chicago, Ill. Children's dresses. No. 139,291; Feb. 1; v. 283; p. 168.



- Eberly, Isaac C., Reading, Pa. Hosiery of cotton and silk for men and ladies. No. 144,751; July 19; v. 288; p. 617.
- Ecks Limited, South Yarra, Victoria, Australia. Non-alcoholic beverage. No. 139,133; Jan. 25; v. 282; p. 733.
- Eckstein, Joseph, Inc., New York, N. Y. Woolen and woolen and silk piece goods. No. 145,555; Aug. 9; v. 289; p. 407.
- Eckstein, Joseph, Inc., New York, N. Y. Woolen and woolen and silk piece goods. No. 146,083; Aug. 30; v. 289; p. 1013.
- Eclipse Machine Company, Elmira Heights, N. Y. Drives or transmission mechanism for starters for internal-combustion engines. No. 141,349; Apr. 19; v. 285; p. 566.
- Eclipse Manufacturing Company, The, Indianapolis, Ind. Polishing composition for metal and glass. No. 147,840; Nov. 1.
- Econo Shoe Manufacturing Co., The, Houghton, Mich. Boots and shoes. No. 143,940; June 21; v. 287; p. 579.
- Economic Manufacturing Co., Paterson, N. J. Imitation linoleum. No. 140,372; Mar. 15; v. 284; p. 581.
- Economic Manufacturing Co., Paterson, N. J. Ribbons, dress goods, and shirtings all in the piece. No. 148,003; Nov. 8.
- Economic Manufacturing Company, Paterson, N. J. Hatbands, beltings, bowls &c. No. 138,613; Jan. 4; v. 282; p. 186.
- Economic Materials Co., Chicago, Ill. Yeast. No. 144,752; July 19; v. 288; p. 617.
- Economy Bag Closing Co., Knoxville, Tenn. Machines to close filled bags. No. 140,590; Mar. 22; v. 284; p. 744.
- Economy Engineering Company, Chicago, Ill. Machines for transporting, raising, and lowering boxes, barrels, &c. No. 141,116; Apr. 12; v. 285; p. 380.
- Economy Hoist and Body Company, New York, N. Y. Automobile-bodies. No. 145,351; Aug. 2; v. 289; p. 178.
- Edelen, James H., Oakland, Calif. Liquid ant-exterminator. No. 146,084; Aug. 30; v. 289; p. 1013.
- Edelstone, William W., Cambridge, Mass. Tire fabric, canvas, duck, &c. No. 145,084; July 26; v. 288; p. 813.
- Edenfield, William N., Atlanta, Ga. Mineral oil for treatment of the intestines. No. 146,216; Sept. 6; v. 290; p. 199.
- Edgertyn Aniline Corporation, assignor to The Skat Company, Hartford, Conn. Chemicals. No. 140,797; Mar. 29; v. 284; p. 943.
- Edgewater Tapestry Looms, Inc., Edgewater, N. J., and New York, N. Y. Hand-woven tapestry and needlepoint. No. 148,395; Nov. 15.
- Edington, Jacob E., Los Angeles, Calif. Soft soap. No. 141,117; Apr. 12; v. 285; p. 380.
- Edison-Cromer Pen Co., Birmingham, Ala. Fountain-pens. No. 141,118; Apr. 12; v. 285; p. 380.
- Edison Portland Cement Company, The, West Orange and New Village, N. J., and New York, N. Y. Portland cement. No. 144,584; July 5; v. 288; p. 192.
- Edison, Thomas A., West Orange, N. J. Phonograph-records. No. 144,383; July 5; v. 288; p. 192.
- Edlis Barbers' Supply Co., The, Pittsburgh, Pa. Liquid cream for the hair. No. 146,643; Sept. 13; v. 290; p. 427.
- Edmonds Shoe Company, Milwaukee, Wis. Leather shoes. Nos. 149,040-2; Dec. 6.
- Edoscope Mfg. Co., Plainfield, N. J. Stereopticons. No. 144,563; July 12; v. 288; p. 423.
- Edson, Clarence E., Cleveland, Ohio. Artificial pearls. No. 147,592; Oct. 25.
- Edson, Clarence E., Cleveland, Ohio. Candy. No. 147,593; Oct. 25.
- Edson Manufacturing Co., Boston, Mass. Liquid-pumps and liquid-pumping apparatus. No. 144,115; June 21; v. 287; p. 587.
- Edson Moore & Company, Detroit, Mich. Clothing. No. 140,651; Mar. 22; v. 284; p. 746.
- Edson Moore & Company, Detroit, Mich. Manufactured blankets. No. 146,085; Aug. 30; v. 289; p. 1013.
- Edson Moore & Company, Detroit, Mich. Cotton piece goods, silk and cotton fabric, lawns, dimities, &c. No. 148,396; Nov. 15.
- Educational Films Corporation of America, New York, N. Y. Motion-pictures. No. 147,594; Oct. 25.
- Educational Supply Company, The, Painesville, Ohio. Certain papers. No. 149,043; Dec. 6.
- Edward Katzinger Company, Chicago, Ill. Trade publication. No. 143,986; June 21; v. 287; p. 580.
- Edwards & Crist Company, Chicago, Ill. Motorcycles and bicycles. No. 145,656; Aug. 16; v. 289; p. 593.
- Edwards Food Products Company, Chicago, Ill. Baked beans. No. 141,350; Apr. 19; v. 285; p. 566.
- Edwards, J., & Co., Inc., Philadelphia, Pa. Children's, misses', and growing girls' leather shoes. No. 146,730; Sept. 20; v. 290; p. 633.
- Edwin Harrax, Inc., New York, N. Y. Notions and smallwares. No. 144,231; June 28; v. 287; p. 775.
- Edwin M. Knowles China Co., The, East Liverpool, Ohio. China and porcelain ware. No. 144,595; July 12; v. 288; p. 424.
- Egan and Hausman Company Inc., Brooklyn, N. Y. Varnishes. No. 149,666; Dec. 20.
- Egerton, Clifford W., Brooklyn, N. Y. Hose-supporters. No. 138,614; Jan. 4; v. 282; p. 186.
- Eggert Chemical Company, The, Canton, Ohio. Inoculating-bacteria. No. 142,260; May 10; v. 286; p. 404.
- Ehlick, Eugene, Vestal, N. Y., assignor to Universal Instruments and Metal Company, Inc., Union, N. Y. Safety-pins. No. 148,004; Nov. 8.
- Ehrenreich, A., & Cie., Düsseldorf-Oberkassel, Germany. Time-stamps. No. 147,595; Oct. 25.
- Ehret Magnesia Manufacturing Company, Valley Forge, Pa. Insulating material. No. 143,325; May 31; v. 286; p. 1048.
- Eliert Products Company, Fresno, Calif. Carbonated flavoring-waters, distilled water, and soda-waters. No. 139,526; Feb. 8; v. 283; p. 350.
- Elmer & Amend, New York, N. Y. Thermometers. No. 147,482; Oct. 18.
- Einstein, J., Inc., New York, N. Y. Cotton, duck, and canvas piece goods. No. 147,091; Oct. 4.
- Einstein, Samuel M., Attleboro, Mass. Jewelry and precious-metal ware. No. 148,005; Nov. 8.
- Eisendrath, Joseph N., Company, The, Chicago, Ill. Leather. No. 146,567; Sept. 13; v. 290; p. 421.
- El Comercio Publishing Corporation, New York, N. Y. Monthly publication. No. 145,657; Aug. 16; v. 289; p. 593.
- El Comercio Publishing Corporation, New York, N. Y. Monthly publication. No. 148,006; Nov. 8.
- Eldridge Chemical Company, The, Canton, Ohio. Cleaning and scouring powder. No. 145,085; July 26; v. 288; p. 813.
- Eldridge, Geo. R., Co., Detroit, Mich. Eggs and butter. No. 147,209; Oct. 4.
- Electric Arc Cutting and Welding Company, Newark, N. J. Metal-welding electrodes. No. 145,086; July 26; v. 288; p. 813.
- Electric Arc Cutting and Welding Company, Newark, N. J. Electric welding-machines. No. 148,007; Nov. 8.
- Electric Controller Co., Indianapolis, Ind. Electric incubators. No. 141,540; Apr. 26; v. 285; p. 779.
- Electric Heat Unit Co., St. Louis, Mo. Electric heating apparatus for heating fluids. No. 144,755; July 19; v. 288; p. 617.
- Electric Machine Company, The, Indianapolis, Ind. Stands for testing starting-motors and electric generators and growlers for testing armatures. No. 148,647; Nov. 22.
- Electric Tachometer Corporation, The, Philadelphia, Pa. Electric tachometers and meters. No. 144,565; July 12; v. 288; p. 423.
- Electric Tachometer Corporation, The, Philadelphia, Pa. Magneto-generators, electric switches, and electric contact devices. No. 146,568; Sept. 13; v. 290; p. 421.
- Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Vacuum cleaners. No. 140,373; Mar. 15; v. 284; p. 581.
- Electrical Alloy Company, The, Morristown, N. J. Resistance wires and ribbons. No. 144,564; July 12; v. 288; p. 423.
- Electrical Trade Publishing Company, Chicago, Ill. Monthly publication. No. 140,115; Mar. 8; v. 284; p. 364.
- Elektrik Maid Bake Shops, St. Paul, Minn. Bread. No. 147,596; Oct. 25.
- Electrolyte Storage Battery Co., Philadelphia, Pa. Storage, lighting, and starting batteries. No. 141,288; Apr. 12; v. 285; p. 387.
- Electropure Company, The, Chicago, Ill. Milk and butter. No. 148,008; Nov. 8.
- Elfman, Louis A., Philadelphia, Pa. Horse-racing amusement game apparatus. No. 143,648; Nov. 22.
- Elfman, Louis A., Philadelphia, Pa. Horse-racing amusement game apparatus. No. 149,044; Dec. 6.
- Elgin Margarine Co., Elgin, Ill. Oleomargarin and nut margarin. No. 147,873; Nov. 1.
- Elgin Rubber Ace Company, Elgin, Ill. Tire-fillers made of spongy rubber. No. 140,374; Mar. 15; v. 284; p. 581.
- Elgin Rubber Ace Company, Elgin, Ill. Fillers for tires made of spongy rubber. Nos. 140,375-6; Mar. 15; v. 284; p. 581.
- Elgin Waist Company, Philadelphia, Pa. Waists, dresses, &c. No. 146,457; Sept. 6; v. 290; p. 210.
- Eli Lilly and Company, The, Indianapolis, Ind. Medicinal preparations. No. 144,210; June 28; v. 287; p. 774.
- Elijah, Hedwig R., Philadelphia, Pa. Lard substitutes. No. 149,373; Dec. 13.
- Elias, Percy I., New York, N. Y. Electric-lighting fixtures. No. 144,566; July 12; v. 288; p. 423.
- Eliowitz, Wolf, New York, N. Y. Hair-acts. No. 139,292; Feb. 1; v. 283; p. 168.
- Elish, M. M., & Co., New York, N. Y. Bond and onion-skin paper for writing and printing purposes. No. 139,932; Feb. 22; v. 283; p. 758.
- Elish, M. M., & Co., Inc., New York, N. Y. Bond-paper for writing and printing purposes. No. 142,994; May 24; v. 286; p. 845.
- Elk Manufacturing Company, Jellico, Tenn. Medicinal preparations. No. 140,591; Mar. 22; v. 284; p. 744.
- Elk Manufacturing Company, Jellico, Tenn. Food-flavoring extracts. No. 148,825; Nov. 29.
- Elkins, Port B., Winchester, Mass. Self-measuring machines for measuring and dispensing liquids. No. 139,527; Feb. 8; v. 283; p. 350.
- Elkonite Soap Co., Inc., The, Oakland, Calif. Soap. No. 147,306; Oct. 11.



*Alphabetical list of registrants of trade-marks—Continued.*

- Ellamoor Candy Company. (See Diffenbacher, Mark M., assignor.)
- Ellenwood & Doyle, Inc., New York, N. Y. Solder, copper and tin, &c. No. 149,911; Dec. 27.
- Elliot Shoe Co., Brockton, Mass. Leather shoes. No. 143,941; June 21; v. 287; p. 579.
- Elliott Commission Company, Decatur, Ill. Fresh fruits and vegetables packed in crates. No. 145,087; July 26; v. 288; p. 813.
- Elliott-Fisher Company, Harrisburg, Pa. Typewriting-machines, combined writing-adding machines, and platens. No. 145,088; July 26; v. 288; p. 813.
- Ellis, B. L., Manufacturing Company, Des Moines, Iowa. Knockdown hog houses and feeders. No. 140,377; Mar. 15; v. 284; p. 581.
- Ellis, Mrs. K. G., Beaumont, Tex. Medicine for the treatment of the kidneys and bladder. No. 146,985; Sept. 27; v. 290; p. 804.
- Ellis, Lexey B., Jr., Memphis, Tenn. Tooth-paste. No. 146,217; Sept. 6; v. 290; p. 199.
- Ellmauer, Josef, Milwaukee, Wis. Automatic refrigerating-machines. No. 142,514; May 17; v. 286; p. 626.
- Elmberg, E. F., Company, Parkersburg, Iowa. Concrete-mixers, feed-grinders, saw-frames, &c. No. 145,089; July 26; v. 288; p. 813.
- Elmo Inc., Philadelphia, Pa. Face and talcum powders, perfume, and toilet waters. Nos. 143,326-8; May 31; v. 286; p. 1048.
- Elmore, Walter D., Pittsburgh, Pa. Antifriction metals. No. 144,996; July 19; v. 288; p. 627.
- Elovitz, Nathan, Chicago, Ill. Salve for massaging paralyzed limbs. No. 141,541; Apr. 26; v. 285; p. 779.
- El Reno Mill & Elevator Co., El Reno, Okla. Wheat-flour. No. 139,072; Jan. 18; v. 282; p. 558.
- El Reno Mill & Elevator Co., El Reno, Okla. Wheat-flour. No. 143,687; June 7; v. 287; p. 185.
- El Reno Wholesale Grocery Company, El Reno, Okla. Coffee. No. 139,528; Feb. 8; v. 283; p. 350.
- Elswick-Hopper Cycle & Motor Company Limited, The, Barton-upon-Humber, England. Cycles and motorcycles. No. 141,933; May 3; v. 286; p. 184.
- Elsworth, J., and J. W. Co., New York, N. Y. Oysters. No. 138,901; Jan. 11; v. 282; p. 380.
- Elsworth, J. & J. W. Co., New York, N. Y. Oysters, canned and in their natural state. No. 140,704; Mar. 22; v. 284; p. 750.
- Elsworth, J. & J. W. Co., New York, N. Y. Fresh oysters and clams. No. 143,799; June 7; v. 287; p. 190.
- Ely & Walker Dry Goods Company, St. Louis, Mo. Manufactured blankets of all cotton, cotton and wool, and all wool. No. 139,293; Feb. 1; v. 283; p. 168.
- Ely & Walker Dry Goods Company, St. Louis, Mo. Articles of clothing. No. 143,329; May 31; v. 286; p. 1048.
- Ely & Walker Dry Goods Company, St. Louis, Mo. India linon, gingham, poplin, &c. No. 146,731; Sept. 20; v. 290; p. 633.
- Ely & Walker Dry Goods Company, St. Louis, Mo. House-dresses and aprons. No. 148,826; Nov. 29.
- Ely, William, Providence, R. I. Machines for washing, pickling, and drying metal parts, dust-collecting and tubing machines. No. 149,765; Dec. 20.
- Emanuel Slag Company, Allentown and Glendale, Pa. Dense hard slag. No. 146,458; Sept. 6; v. 290; p. 210.
- Embee Company, The, New York, N. Y. Toilet preparations. No. 145,950; Aug. 23; v. 289; p. 787.
- Emden, Victor C., Los Angeles, Calif. Candies. No. 139,791; Feb. 22; v. 283; p. 752.
- Emerson Carey Fibre Products Company, The, Hutchinson, Kans. Wall-board and building-paper. No. 145,090; July 26; v. 288; p. 813.
- Emerson, Edwin L., Boston, Mass. Electric beaters adapted for heating hand-tools. No. 141,542; Apr. 26; v. 285; p. 779.
- Emerson, George W., Washington, D. C. Mouth wash and lotion. No. 140,116; Mar. 8; v. 284; p. 364.
- Emerson, James G., Erie, Pa. Hair-tonic. No. 146,036; Aug. 30; v. 289; p. 1014.
- Emerson-Lindsley Paint Company, St. Louis, Mo. Dressing for leather, imitation leather, upholstery, &c. No. 139,931; Feb. 22; v. 283; p. 758.
- Emerson Manufacturing Company, San Francisco, Calif. Flags. No. 140,378; Mar. 15; v. 284; p. 581.
- Emerson Phonograph Company, Inc., New York, N. Y. Phonograph-records. No. 148,397; Nov. 15.
- Emerson Shoe Company, The, Rockland, Mass. Boots and shoes of leather, rubber, or fabric. No. 143,596; June 7; v. 287; p. 183.
- Emery Food Co., Chicago, Ill. Food products. No. 139,529; Feb. 8; v. 283; p. 350.
- Emery-Scott Seed Company, New Albany, Ind. Grass and garden seeds. No. 143,942; June 21; v. 287; p. 579.
- Emmerich, Chas., & Co., Chicago, Ill. Pillows. No. 144,211; June 28; v. 287; p. 774.
- Emmons, Mary E., New York, N. Y. Eggs. No. 144,567; July 12; v. 288; p. 423.
- Emo Co., The, Portland, Me. Cream for use for sunburn, tan, burns, &c. No. 147,210; Oct. 4.
- Empire Carpet Co., New York, N. Y. Rugs made of wool and cotton. Nos. 141,289-90; Apr. 12; v. 285; p. 388.
- Empire Cream Separator Company, Bloomfield, N. J. Centrifugal separators. No. 149,374; Dec. 13.
- Empire Cream Separator Company, Bloomfield, N. J. Milking-machines and milking-machine systems and parts thereof. No. 149,375; Dec. 13.
- Empire Mattress Company, Chicago, Ill. Mattresses. Nos. 150,193-4; Dec. 27.
- Empire Notion Co., New York, N. Y. Hair-nets. No. 149,912; Dec. 27.
- Empire Silk Company, Wilmington, Del., and New York, N. Y. Silk piece goods. No. 139,792; Feb. 22; v. 283; p. 752.
- Empire Varnish Company, The, Cleveland, Ohio. Paints and painters' materials. No. 143,597; June 7; v. 287; p. 183.
- Empire Varnish Company, The, Cleveland, Ohio. Varnish. No. 149,376; Dec. 13.
- Emporium-World Millinery Co., Chicago, Ill. Hats for female wear. Nos. 145,658-9; Aug. 16; v. 289; p. 593.
- Enders Human Hair Co., New York, N. Y. Hair-nets. No. 143,962; June 21; v. 287; p. 579.
- Enders Sales Company, New York, N. Y. Safety-razors. No. 148,009; Nov. 8.
- Endless Belt Corporation, Inc., New York, N. Y. Linen, cotton, &c., endless belts. No. 144,385; July 5; v. 288; p. 192.
- Endless Belt Corporation, Inc., New York, N. Y. Linen, cotton, and other fabric belts. No. 144,386; July 5; v. 288; p. 192.
- Endless Belt Corporation, Inc., New York, N. Y. Linen, cotton, and other fabric belts. No. 145,352; Aug. 2; v. 289; p. 178.
- Endurance Battery Corporation, New York, N. Y. Storage batteries. No. 139,713; Feb. 15; v. 283; p. 571.
- Endway Company, Limited, London, England. Tea. No. 141,934; May 3; v. 286; p. 184.
- Energine Company, Woodhaven, N. Y. Chemical compound for removing carbon from gasoline. No. 140,117; Mar. 8; v. 284; p. 364.
- Energio Company, The, Fairmont, W. Va. Non-alcoholic, maltless beverage. No. 139,978; Mar. 1; v. 284; p. 173.
- Eney Shortening Co., Chicago, Ill. Shortening. No. 142,515; May 17; v. 286; p. 626.
- Eney Shortening Co., Chicago, Ill. Shortening. No. 142,995; May 24; v. 286; p. 845.
- Engel, Albert W., Chicago, Ill. Picture or sheet mounting devices. No. 139,134; Jan. 25; v. 282; p. 733.
- Engel, H., & Sons, New York, N. Y. Handkerchiefs. No. 149,668; Dec. 20.
- Engelberg Huller Company, The, Syracuse, N. Y. Attrition-mills. No. 147,211; Oct. 4.
- Engelberg Huller Company, The, Syracuse, N. Y. Attrition-mills and coffee-shellers. No. 149,913; Dec. 27.
- Engelhard, A., & Sons Company, Louisville, Ky. Food and food ingredients. No. 146,732; Sept. 20; v. 290; p. 633.
- Englander Spring Bed Co., Brooklyn, N. Y. Beds, couches, springs, cribs, &c. No. 146,459; Sept. 6; v. 290; p. 210.
- English China Clay Sales Corporation, New York, N. Y. Clay for pottery and for paper-makers. No. 143,943; June 21; v. 287; p. 579.
- Eng-Skell Company, Inc., San Francisco, Calif. Flavoring compound for use in syrups, candies, &c. No. 145,353; Aug. 2; v. 289; p. 178.
- Eng-Skell Company, Inc., San Francisco, Calif. Stabilizing or smoothing powder for ice-creams, &c. No. 145,354; Aug. 2; v. 289; p. 178.
- Eng-Skell Company, Inc., San Francisco, Calif. Non-alcoholic maltless beverage and flavoring for same. No. 148,576; Nov. 15.
- Engstrom, John, Jr., Co., Little Valley, N. Y. Razors. No. 149,914; Dec. 27.
- Ennisson, W. Jay, New York, N. Y. Parlor baseball games. No. 148,827; Nov. 29.
- Eno, George W., Rubber Company, Los Angeles, Calif. Rubber-coated fabric inner tires for relining pneumatic-tire casings. No. 145,355; Aug. 2; v. 289; p. 178.
- Eno, George W., Rubber Company, Los Angeles, Calif. Retreads for attachment to the outer surface of worn pneumatic-tire casings. No. 145,356; Aug. 2; v. 289; p. 178.
- Eno, J. C., Limited, London, England. Saline aperient. No. 148,010; Nov. 8.
- Ensign, Jeanette M., Chicago, Ill. Liquid polish or dressing for furniture, floors, and automobiles. No. 145,951; Aug. 23; v. 289; p. 787.
- Enterprise Coal Company, Garrett, Pa. Coal. No. 143,944; June 21; v. 287; p. 579.
- Enterprise Dry Yeast Corporation, New York, N. Y. Medicinal yeast. No. 146,087; Aug. 30; v. 289; p. 1014.
- En-Tout-Cas Company, Limited, The, Leicester, England. Tennis and playing courts, pavements, and promenades. No. 147,597; Oct. 25.
- Ephraimson, J., Bradford, England. Animal hair or wool for making wigs and other similar articles. No. 149,667; Dec. 20.
- Eppelsheimer & Co., New York, N. Y. Metal molds. No. 149,915; Dec. 27.
- Eppinger, Lou J., Detroit, Mich. Artificial fishing-baits. No. 148,828; Nov. 29.
- Equinox Mountain Spring, Inc., New York, N. Y. Gingenale and sparkling, still, and lithia waters. No. 140,118; Mar. 8; v. 284; p. 364.



- Equipment Corporation of America, Wilmington, Del., and Chicago, Ill. Construction machinery and equipment. No. 148,011; Nov. 8.
- Equipment Manufacturing Company, The, Cleveland, Ohio. Motor or hand floor-trucks. No. 148,398; Nov. 15.
- Erb Drug Co., Inc., The, Lynchburg, Va. General tonic. No. 147,092; Oct. 4.
- Erb, Hannah, Greensburg, Pa. Cough remedy. No. 144,224; June 28; v. 287; p. 775.
- Erbes, Phillip A., San Francisco, Calif. Dust-caps for tire-valves. No. 142,516; May 17; v. 286; p. 626.
- Erbograph Company, New York, N. Y. Photographic machines, cameras, and motion-picture films. No. 145,357; Aug. 2; v. 289; p. 178.
- Erickson, C. B., Co. Inc., Des Moines, Iowa. Thermometers. No. 143,915; June 21; v. 287; p. 579.
- Eriesson Manufacturing Company, Tonawanda, N. Y. Magnetos. No. 141,743; Apr. 26; v. 285; p. 787.
- Eric Calculator Co., Erie, Pa. Adding-machines. No. 141,543; Apr. 26; v. 285; p. 779.
- Erlanger, N., Blumgart & Co., Inc., New York, N. Y. Cotton piece goods. No. 140,798; Mar. 29; v. 284; p. 943.
- Erlanger N. Blumgart & Co., Inc., New York, N. Y. Cotton voiles in piece goods. No. 140,377; Dec. 13.
- Ermold, George, New York, N. Y. Surgical instruments. No. 139,531; Feb. 8; v. 283; p. 350.
- Ernst, J. M. & Son, Arcola and East St. Louis, Ill. Scratch feed. No. 145,091; July 26; v. 288; p. 813.
- Ernst Wine of Tana Manufacturing Co., Otay, Calif. Medicinal preparation. No. 142,996; May 24; v. 286; p. 845.
- Erskine, James Lowe, Co., The, New York, N. Y. Shaving-brushes. No. 148,577; Nov. 15.
- Ertley, Harvey A., Northumberland, Pa. Polishes for automobiles, furniture, &c. No. 148,399; Nov. 15.
- Erwin Cotton Mills Co., The, West Durham, N. C. Cotton piece goods. No. 142,201; May 3; v. 286; p. 194.
- Erwin Cotton Mills Co., West Durham, N. C. Sheets, pillow-cases, and cotton piece goods. No. 142,202; May 3; v. 286; p. 194.
- Erwin Cotton Mills Co., The, Durham, N. C. Cotton goods in the piece. No. 143,241; May 24; v. 286; p. 856.
- Erwin Cotton Mills Co., The, West Durham, N. C. Cotton goods in the piece. No. 143,330; May 31; v. 286; p. 1048.
- Erwin Cotton Mills Co., The, West Durham, N. C. Sheets and pillow-cases and cotton goods in the piece. No. 143,331; May 31; v. 286; p. 1048.
- Erwin Cotton Mills Co., The, West Durham, N. C. Denims in the piece. No. 148,829; Nov. 29.
- Erwin Manufacturing Company, The, Milwaukee, Wis. Hand-operated portable and stationary fire-extinguishers. No. 139,979; Mar. 1; v. 284; p. 173.
- Escanaba Manufacturing Company, Escanaba, Mich. Wooden clothespins. No. 139,135; Jan. 25; v. 282; p. 734.
- Escanaba Manufacturing Company, Escanaba, Mich. Wooden toothpicks. No. 144,212; June 28; v. 287; p. 774.
- Escoffier Limited, London, England. Mayonnaise, catsup, food-oils, pickles, &c. No. 146,733; Sept. 20; v. 290; p. 633.
- Escudero, A., & Co., Inc., San Juan, Porto Rico. Laundry soap. No. 140,379; Mar. 15; v. 284; p. 581.
- Eskind, J., & Sons, Nashville, Tenn. Certain articles of clothing. No. 147,307; Oct. 11.
- Esko Products Company, Phillipsburg, N. J. Ointment. No. 143,332; May 31; v. 286; p. 1048.
- Esko Products Company, Phillipsburg, N. J. Medicinal preparation. No. 144,387; July 5; v. 288; p. 192.
- Esleech Mfg. Co., Turners Falls, Mass. Onion-skin paper. No. 143,598; June 7; v. 287; p. 183.
- Esmeralda, Madam, New York, N. Y. Hair-tonic. No. 142,997; May 24; v. 286; p. 845.
- Esmond Mills, The, Esmond, R. I. Cotton bed-blankets. No. 148,012; Nov. 8.
- Espinosa-Rendon, Felix M., Laredo, Tex. Preparation for restoring the natural color of the hair. No. 143,728; June 7; v. 287; p. 187.
- Essantee Company, St. Louis, Mo. Non-alcoholic maltless beverage and maltless syrups, &c. No. 144,756; July 19; v. 288; p. 617.
- Essayan Jewelry Company, Boston, Mass. Jewelry and flat and hollow silverware. No. 142,261; May 10; v. 286; p. 404.
- Esser, T. C., Company, Milwaukee, Wis. Varnishes, japans, oil-paints, and paint-oils. No. 143,800; June 7; v. 287; p. 190.
- Essex Gelatine Company, Jersey City, N. J., and Boston, Mass. Gelatin. No. 139,676; Feb. 8; v. 283; p. 356.
- Essex Rubber Company, Trenton, N. J. Rubber and composition soles and heels. No. 148,830; Nov. 29.
- Estasi Perfumery Co., Inc., New York, N. Y. Toilet preparation. No. 142,998; May 24; v. 286; p. 845.
- Estasi Perfumery Co., Inc., New York, N. Y. Certain toilet preparations. No. 147,093; Oct. 4.
- Estate Stove Co., The, Hamilton, Ohio. Electric heating appliances for reflecting-heaters. No. 139,714; Feb. 15; v. 283; p. 541.
- Estate Stove Company, The, Hamilton, Ohio. Gas heating apparatus. No. 145,092; July 26; v. 288; p. 813.
- Estate Stove Company, The, Hamilton, Ohio. Thermostatically-operated valves. No. 147,598; Oct. 25.
- Estate Stove Company, The, Hamilton, Ohio. Coal and wood stoves. No. 149,378; Dec. 13.
- Estelle-Idler, Atlantic City, N. J. Cream for the scalp. No. 143,518; May 31; v. 286; p. 1055.
- Estlow, Leon W., Burlington, N. J. Foot-powders. No. 143,946; June 21; v. 287; p. 579.
- Etablissements Poulence Frères, Paris, France, by G. Roché, administrator. Curative vaccins. No. 144,315; June 28; v. 287; p. 780.
- Etablissements Poulence Frères, Paris, France, by G. Roché, administrator. Dihydrochlorid of dioxydiaminoarsenobenzol. No. 144,316; June 28; v. 287; p. 780.
- Etchison Hat Company, Inc., Richmond, Va. Hats and caps for men, women, and children. No. 148,400; Nov. 15.
- Ettenson, Benjamin, Leavenworth, Kans. White-shoe and straw-hat cleaner. No. 141,352; Apr. 19; v. 285; p. 566.
- Euclid Candy Company, The, Cleveland, Ohio. Candy. No. 145,358; Aug. 2; v. 289; p. 178.
- Eustis, J. P., Manufacturing Company, Cambridge, Mass. Fastenings comprising screws and bolts. No. 142,867; May 17; v. 286; p. 638.
- Evans Chemical Works, Portland, Oreg. Polish for jewelry, precious stones, cut glass, and chinaware. No. 139,532; Feb. 8; v. 283; p. 350.
- Evans, Clarence E., St. Louis, Mo. Carbon-paper and typewriter-ribbons. No. 139,715; Feb. 15; v. 283; p. 541.
- Evans, John R., & Company, Philadelphia, Pa. Leather. No. 140,799; Mar. 29; v. 284; p. 943.
- Evans, L. B., Sons Company, Wakefield, Mass. Men's, women's, and children's shoes, slippers, and oxfords. No. 149,766; Dec. 20.
- Evans, William L., Jr., Washington, Ind. Hinges for doors, sashes, &c. No. 144,116; June 21; v. 287; p. 587.
- Ever Sharp File Co., Taunton, Mass. Files. No. 149,046; Dec. 6.
- Everett, Aughenbaugh & Co., Waseca, Minn. Bread. No. 138,963; Jan. 18; v. 282; p. 554.
- Everett, Heaney & Company, Inc., New York, N. Y. Men's suits. No. 143,599; June 7; v. 287; p. 183.
- Everett, Heaney & Company, Inc., New York, N. Y. Bleached, colored, and dyed cotton and cotton and silk mixtures in the piece. No. 146,218; Sept. 6; v. 290; p. 199.
- Everett, Heaney & Company, Inc., New York, N. Y. Cotton, woolen, linen, and combination piece goods. No. 149,379; Dec. 13.
- Everitt, C. M., & J. P. Todd, Inc., Seattle, Wash. Canned fish. No. 141,544; Apr. 26; v. 285; p. 779.
- Everlastik, Incorporated, Boston, Mass. Elastic and non-elastic webs. No. 139,980; Mar. 1; v. 284; p. 173.
- Everlasting Valve Company, Jersey City, N. J. Valves. No. 145,264; July 26; v. 288; p. 822.
- Everready Mfg. Co., McKeesport, Pa. Cleaning material for gloves, shoes, &c. No. 140,119; Mar. 8; v. 284; p. 364.
- Evers-Rehm Co., New York, N. Y. Non-alcoholic beverages and sirups for making same. No. 149,916; Dec. 27.
- Ezerskis, Charles, Chicago, Ill. Medicine used in the treatment of rheumatism. No. 146,219; Sept. 6; v. 290; p. 199.
- Everwear Manufacturing Co., San Francisco, Calif. Overalls, auto-suits, and work coats. No. 144,317; June 28; v. 287; p. 780.
- Evinrude Motor Company, Milwaukee, Wis. Oil-engines. No. 144,388; July 5; v. 288; p. 192.
- Excell Laboratories, The, Chicago, Ill. Liquid fertilizer. No. 144,657; July 12; v. 288; p. 427.
- Excello Manufacturing Company, The, Cleveland, Ohio. Boiler-setting cement and glass-setting cement or cement putty. No. 145,093; July 26; v. 288; p. 813.
- Excelsior Baking Company, Minneapolis, Minn. Toast. No. 145,359; Aug. 2; v. 289; p. 178.
- Excelsior Shoe Company, The, Portsmouth, Ohio. Shoes and boots. No. 140,592; Mar. 22; v. 284; p. 744.
- Excelsior Shoe Company, The, Portsmouth, Ohio. Shoes and boots. No. 141,545; Apr. 26; v. 285; p. 779.
- Experimenter Publishing Co., New York, N. Y. Publication issued monthly. No. 140,120; Mar. 8; v. 284; p. 364.
- Experimenter Publishing Co., New York, N. Y. Publication issued monthly. No. 143,947; June 21; v. 287; p. 579.
- Eye Brand Confectionery Inc., Brooklyn, N. Y. Candies. No. 142,999; May 24; v. 286; p. 845.
- Eye Brand Confectionery, Inc., Brooklyn, N. Y. Candies. No. 145,660; Aug. 16; v. 289; p. 593.
- Eye Brand Confectionery, Inc., Brooklyn, N. Y. Candies—viz., square suckers. No. 146,031; Aug. 23; v. 289; p. 791.
- F. & F. Poultry Remedy Co., Humeston, Iowa. Certain poultry remedies. No. 147,094; Oct. 4.
- Faber, Eberhard, Brooklyn, N. Y. Ordinary lead-pencils, magazine and automatic lead-pencils. No. 139,136; Jan. 25; v. 282; p. 734.
- Fabric Belt & Lace Co., La Crosse, Wis. Canvas belting and belt-lacing. No. 138,810; Jan. 11; v. 282; p. 376.
- Fabric Belt & Lace Co., La Crosse, Wis. Automobile fan-belts of canvas. No. 140,380; Mar. 15; v. 284; p. 581.



*Alphabetical list of registrants of trade-marks—Continued.*

- Fabrique d'Horlogerie Electa Gallet & Co. S. A., La Chaux-de-Fonds, Switzerland. Watches and their parts. Nos. 147,599-600; Oct. 25.
- Factory Supply Company, Chicago, Ill. Hammers, sledges, picks, &c., and handles therefor. No. 144,213; June 28; v. 287; p. 774.
- Fahrney, Dr. Peter, & Sons Co., Chicago, Ill. Medicinal tonic. No. 144,568; July 12; v. 288; p. 423.
- Fahrney, Dr. Peter, & Sons Co., Chicago, Ill. Certain medicinal tonic. No. 149,047; Dec. 6.
- Fair, The, Chicago, Ill. Golf-balls. No. 142,517; May 17; v. 286; p. 626.
- Fair, The, Chicago, Ill. Leather shoes. Nos. 149,767-8; Dec. 20.
- Fairbanks Co., The, New York, N. Y. Electric drills, grinders, magnet-chucks, &c. No. 144,569; July 12; v. 288; p. 423.
- Fairbanks Co., The, New York, N. Y. Certain construction materials. No. 148,013; Nov. 8.
- Fairbanks Co., The, New York, N. Y. Mill-baskets, oil-cabinets, tool-chests, hose-reels, &c. No. 149,380; Dec. 13.
- Fairbanks Co., New York, N. Y. Unloading and commercial trucks and car-bodies. No. 149,269; Dec. 20.
- Fairbanks, Morse & Co., Chicago, Ill. Gas, gasoline, kerosene, and oil engines, steam and power pumps, &c. No. 139,294; Feb. 1; v. 283; p. 169.
- Fairbanks, Morse & Co., Chicago, Ill. Electric dynamos and motors. No. 140,593; Mar. 22; v. 284; p. 744.
- Fairbury Mill & Elevator Co., The, Fairbury, Nebr. Wheat-flour, wheat Graham, pancake-flour, and cornmeal. No. 143,600; June 7; v. 287; p. 183.
- Fairchild Bros. & Foster, New York, N. Y. Preparation for certain purposes. No. 147,767; Nov. 1.
- Fairfield Canning Company, The, Chillicothe, Ohio. Canned vegetables. No. 138,811; Jan. 11; v. 282; p. 376.
- Falcon Manufacturing Co., Brooklyn, N. Y. Shoe-dressing, cream, and polishing-paste. No. 144,757; July 19; v. 288; p. 617.
- Falcon, Morris, New York, N. Y. Hair-tonic. No. 140,800; Mar. 29; v. 284; p. 943.
- Falls City Buggy Top Company, Louisville, Ky. Automobile tops, radiator-covers, curtains, and cushions. No. 149,670; Dec. 20.
- Falls Rubber Company, The, Cuyahoga Falls, Ohio. Tires, tubes, casings, shoes, and repair parts. No. 142,262; May 10; v. 286; p. 404.
- Falulah Paper Company, Fitchburg, Mass. Coated cardboard. No. 143,601; June 7; v. 287; p. 183.
- Famo Nut Co., Los Angeles, Calif. Nuts. No. 140,121; Mar. 8; v. 284; p. 364.
- Famous Biscuit Company, Pittsburgh, Pa. Soda crackers and biscuits. No. 148,328; Nov. 8.
- Famous Coat Front Pad Co., The, New York, N. Y. Coat-front pads made of cut-out canvas, burlap, &c. No. 143,602; June 7; v. 287; p. 183.
- Famous Sales Co. (See Area Manufacturing Co., assignor.)
- Fan Flame Spark Plug Co., Inc., Yonkers, N. Y. Spark-plugs. No. 146,220; Sept. 6; v. 290; p. 199.
- Fappiano, Jerry, Waterbury, Conn. Composition for dressing, polishing, and cleaning footwear, &c. No. 147,309; Oct. 11.
- Farber, Simon W., Brooklyn, N. Y. Portable electric lamps. No. 144,758; July 19; v. 288; p. 617.
- Fargo Bakery Co., Fargo, N. D. Bread. No. 140,705; Mar. 22; v. 284; p. 750.
- Faria, Costa & Co., Incorporated, New York, N. Y. Coffee. No. 142,518; May 17; v. 286; p. 626.
- Farkas, Louis L., New York, N. Y. Chemical preparation used as a preventive of offsetting and smudging of printing. No. 148,402; Nov. 15.
- Farm Equipment Company, The, Baltimore, Md. Belting. No. 138,812; Jan. 11; v. 282; p. 376.
- Farm Publishing Company, Des Moines, Iowa. Monthly periodical publication. No. 149,048; Dec. 6.
- Farmer, Thomas M., Watertown, N. Y. Preparation for cleaning, deodorizing, and disinfecting. No. 148,014; Nov. 8.
- Farmers Union State Exchange, Omaha, Nebr. Motor-trucks. No. 140,381; Mar. 15; v. 284; p. 581.
- Farmers Veterinary Medical Company, Warren, Pa. Veterinary medicines. No. 141,353; Apr. 19; v. 285; p. 566.
- Farnsworth, Hoyt Co., Boston, Mass. Shoe-cloth in the piece. No. 139,295; Feb. 1; v. 283; p. 169.
- Farwell, John V., Company, Chicago, Ill. Piece goods, blankets, and bedding. No. 148,015; Nov. 8.
- Fashion Parfume Co., Chicago, Ill. Lip-stick, rouge, compact face-powder, &c. No. 139,137; Jan. 25; v. 282; p. 734.
- Fauda, Carlo O., San Francisco, Calif. Certain medicinal preparations. No. 148,831; Nov. 29.
- Faulkner, Homer W., Mount Vernon, Ill. Candy—namely, suckers. No. 148,016; Nov. 8.
- Faultless Caster Co., Evansville, Ind. Casters for furniture. No. 144,117; June 21; v. 287; p. 587.
- Faultless Caster Co., Evansville, Ind. Casters for furniture and the like. No. 148,018; Nov. 8.
- Faultless Rubber Company, The, Ashland, Ohio. Toy balloons. No. 144,214; June 28; v. 287; p. 774.
- Faultless Rubber Company, The, Ashland, Ohio. Rubber toys. No. 148,017; Nov. 8.
- Faure, Alexandre, New York, N. Y. Rubber and fabric pneumatic tires for automobiles. No. 146,569; Sept. 13; v. 290; p. 421.
- Faust, Henry C., St. Louis, Mo. Chewing-gum. No. 148,403; Nov. 15.
- Faust Mfg. Company, Chicago, Ill. Trousers-supporting belts. No. 142,263; May 10; v. 286; p. 404.
- Favorite Knitting Company, Milwaukee, Wis. Clothing. No. 141,119; Apr. 12; v. 285; p. 380.
- Fayetteville Ice and Mfg. Co., Fayetteville, N. C. Ice-cream. No. 149,769; Dec. 20.
- Fayette R. Plumb, Inc., Philadelphia, Pa. Hammers, hatchets, axes, and sledges. No. 140,460; Mar. 15; v. 284; p. 583.
- Feasel, Harry L., New York, N. Y. Automobile and furniture polish. No. 147,483; Oct. 18.
- Featheredge Rubber Company, Inc., Chicago, Ill. Rubber sponges and sponge-rubber goods. No. 142,519; May 17; v. 286; p. 626.
- Federal Adding Machine Corporation, New York, N. Y. Typewriters. No. 145,265; July 26; v. 288; p. 822.
- Federal Adding Machine Corporation, New York, N. Y. Adding-machine. No. 145,504; Aug. 2; v. 289; p. 184.
- Federal Chemical Co., Woodstock, Ill. Cleaner and polish. No. 139,933; Feb. 22; v. 283; p. 758.
- Federal Electric Company, Chicago, Ill. Phonographs. No. 146,460; Sept. 6; v. 290; p. 210.
- Federal Electric Company, Chicago, Ill. Phonographs. No. 147,484; Oct. 18.
- Federal Malleable Company, West Allis, Wis. Metal-molding machinery. No. 138,902; Jan. 11; v. 282; p. 380.
- Federal Porcelain Company, The, Carey, Ohio. Electrical porcelain articles. No. 141,935; May 3; v. 286; p. 184.
- Federal Products Corporation, Providence, R. I. Sphygmomanometers. No. 142,520; May 17; v. 286; p. 626.
- Federal Rubber Company, The, Cudahy, Wis. Retainers, beltings, packings, patches, hose, tires, &c. No. 140,382; Mar. 15; v. 284; p. 581.
- Federal Rubber Company, The, Cudahy, Wis. Hoof-pads. No. 142,521; May 17; v. 286; p. 626.
- Federal Rubber Company, The, Cudahy, Wis. Retainers, inside and outside tire-sleeves made wholly or partly of rubber. Nos. 146,570-1; Sept. 13; v. 290; p. 421.
- Federal Rubber Company, The, Cudahy, Wis. Automobile-bumpers, pedal-rubbers. Nos. 147,768-9; Nov. 1.
- Federal Rubber Company, The, Cudahy, Wis. Mats and mattings made wholly or partly of rubber. No. 147,770; Nov. 1.
- Federal Rubber Company, The, Cudahy, Wis. Automobile-bumpers, pedal-rubbers. No. 147,771; Nov. 1.
- Federal Rubber Company, The, Cudahy, Wis. Packing made wholly or partly of rubber or of composition material. No. 148,405; Nov. 15.
- Federal Rubber Company, The, Cudahy, Wis. Mats and matting made wholly or partly of rubber. Nos. 149,049-50; Dec. 6.
- Federal Rubber Company, The, Cudahy, Wis. Repair gums, rubber cement made wholly or partly of rubber. Nos. 149,671-3; Dec. 20.
- Federal Rubber Company, The, Cudahy, Wis. Vehicle-tires made wholly or partly of rubber. Nos. 149,917-8; Dec. 27.
- Federal Snap Fastener Corporation, New York, N. Y. Snap and placket fasteners. No. 138,615; Jan. 4; v. 282; p. 186.
- Federal Storage Battery Co., Washington, D. C. Electric batteries. No. 143,242; May 24; v. 286; p. 856.
- Federal Tool & Alloy Steel Corporation, New York, N. Y. Iron and steel. Nos. 142,522-3; May 17; v. 286; p. 626.
- Federal Underwear Co., New York, N. Y. Infants' bath-robes. No. 141,354; Apr. 19; v. 285; p. 566.
- Feldenheimer, William, London, England. Purified colloidal clay. No. 141,120; Apr. 12; v. 285; p. 380.
- Feldman, Manuel, New York, N. Y. Rag and grass rugs. No. 143,243; May 24; v. 286; p. 856.
- Felles, George, Cleveland, Ohio. Certain medicinal preparation. No. 149,051; Dec. 6.
- Fenner, Harvey A., Philadelphia, Pa., assignor, by mesne assignments, to Fenner Drug Company, New York, N. Y. Remedy for congested liver, constipation, and corpulency. No. 145,662; Aug. 16; v. 289; p. 593.
- Fentress-Newton Mfg. Co., Detroit, Mich. Motorcycle accessories. No. 144,570; July 12; v. 288; p. 423.
- Feore, K. A., & Co., Brooklyn, N. Y. Dressing-sacks, negligees, and undergarments. No. 148,404; Nov. 15.
- Ferguson & Timpson Limited, Glasgow, Scotland, and London, England. Sheet composite machinery packing for steam, water, &c. No. 143,333; May 31; v. 286; p. 1049.
- Ferko, Joseph A., Philadelphia, Pa. Foot-powder. No. 143,603; June 7; v. 287; p. 183.
- Fernandez, Jimenez Y., San Juan and Santurce, Porto Rico. Raw, toasted, and ground coffee. No. 140,801; Mar. 29; v. 284; p. 943.
- Ferraline Medicine Company, Demopolis, Ala. Iron tonic, salve, and cough-syrup. No. 142,264; May 10; v. 286; p. 404.



- Ferris, Walter, Milwaukee, Wis. Hydraulic transmissions. Nos. 143,019-20; Nov. 8.
- Ferris, William L., New York, N. Y. Puzzles. No. 149,381; Dec. 13.
- Fertile Chemical Co., The, Cleveland, Ohio. Fertilizers. No. 144,389; July 5; v. 288; p. 192.
- Fialla & Eppler Inc., New York, N. Y. Crushed fruits. No. 148,760; Nov. 22.
- Fiberloid Corporation, The, Indian Orchard, Mass. Pyroxylin in sheet, tubular, and rod form. No. 140,802; Mar. 29; v. 284; p. 943.
- Fiberloid Corporation, The, Indian Orchard, Mass. Receptacles. No. 142,525; May 17; v. 286; p. 626.
- Fiberloid Corporation, The, Indian Orchard, Mass. Nail-files, clippers, and polishers, cuticle-knives, &c. No. 143,334; May 31; v. 286; p. 1049.
- Fiberloid Corporation, The, Indian Orchard, Mass. Shoe-horns, button-hooks, glove-stretchers, and combs. No. 143,948; June 21; v. 287; p. 579.
- Fiberloid Corporation, The, Indian Orchard, Mass. Hair, clothes, tooth, and nail brushes. No. 146,734; Sept. 20; v. 290; p. 633.
- Fiberloid Corporation, The, Indian Orchard, Mass. Hand-mirrors. No. 149,919; Dec. 27.
- Fibroc Insulation Company, Valparaiso, Ind. Certain electric insulating compounds. No. 148,649; Nov. 22.
- Fidelity Electric Company, The, Lancaster, Pa. Electric motors, generators, converters, &c. No. 141,936; May 3; v. 286; p. 184.
- Fidelity National Bank & Trust Co., Kansas City, Mo. Magazine published monthly. No. 144,760; July 19; v. 288; p. 617.
- Fieker, C. & Co., Carlinville, Ill. Flour made from wheat. No. 142,526; May 17; v. 286; p. 626.
- Field Body Corporation, Owosso, Mich. Vehicle-bodies and parts thereof. No. 143,000; May 24; v. 286; p. 846.
- Field-Parker Company, El Paso, Tex. Furniture. No. 142,527; May 17; v. 286; p. 626.
- Fielder, Charles K., Pasadena, Calif. Liquid preparation for catarrh and colds. No. 141,937; May 3; v. 286; p. 184.
- Fields, Beatrice S., New York, N. Y. Hair-tonics. No. 138,616; Jan. 4; v. 282; p. 186.
- Fields, Sallie B., Hampton, Va. Hair-grower, vegetable shampoo, and tetter-balm. No. 147,095; Oct. 4.
- Fieldstad Leather Company, The, Worcester, Mass. Leather and rawhide belt-laces and leather and rawhide for general uses and making belt-laces. No. 142,665; May 10; v. 286; p. 404.
- Fi-er-Kil Company, San Francisco, Calif. Fire-extinguishing compound. No. 144,390; July 5; v. 288; p. 192.
- Fierman, Herman, Wilkes-Barre, Pa. Liquid tonic having stomachic stimulant and laxative characteristics. No. 147,772; Nov. 1.
- Fifty-Fifty Corporation, Wilmington, Del., and New York, N. Y. Foods. No. 139,533; Feb. 8; v. 283; p. 350.
- Fifty-Fifty Corporation, Wilmington, Del., and New York, N. Y. Tea. No. 140,803; Mar. 29; v. 284; p. 943.
- Figuerola, L. Y., & P. S. Waldorf Co., Milwaukee, Wis. Skin-cream. No. 149,052; Dec. 6.
- File, Mosella, Winston-Salem, N. C. Hair-grower. No. 146,088; Aug. 30; v. 289; p. 1014.
- Filene's, Wm., Sons Company, Boston, Mass. Boots and shoes of leather, fabric, &c. No. 139,934; Feb. 22; v. 283; p. 758.
- Filene's, Wm., Sons, Company, Boston, Mass. Articles of clothing. No. 146,223; Sept. 6; v. 290; p. 199.
- Filice & Perrelli Canning Co., Gilroy, Calif. Canned fruits and vegetables. No. 140,122; Mar. 8; v. 284; p. 364.
- Filice & Perrelli Canning Co., Gilroy, Calif. Canned fruits and vegetables. No. 147,485; Oct. 18.
- Filmusic Company, Los Angeles, Calif. Perforated music rolls or sheets for use with mechanical player instruments. No. 146,735; Sept. 20; v. 290; p. 633.
- Filteau, Wilfred E., Boston, Mass. Mouth-wash, tooth powder and paste. No. 146,224; Sept. 6; v. 290; p. 199.
- Filtrine Manufacturing Company, The, Brooklyn, N. Y. Coolers, filters, and filtering material. No. 142,528; May 17; v. 286; p. 627.
- Finch, David A., Grand Junction, Colo. Medicinal preparation for the treatment of influenza. No. 143,002; May 24; v. 286; p. 846.
- Fine & Co., I., Inc., New York, N. Y. Substitute for cream. No. 144,318; June 28; v. 287; p. 780.
- Fine Cotton Spinners and Doublers' Association, Limited, The, Manchester, England. Cotton yarns. No. 141,546; Apr. 26; v. 285; p. 779.
- Fine & Levy, New York, N. Y. Men's and boys' hats and caps. No. 147,847; Nov. 1.
- Fineburg, Emanuel, New York, N. Y. Hair-nets. No. 141,547; Apr. 26; v. 285; p. 779.
- Finkenstein, Abraham, Omaha, Nebr. Flavoring-matter used in the preparation of pastries, jellies, &c. No. 146,986; Sept. 27; v. 290; p. 804.
- Finkensieper, Adolf, Clifton, N. J. Reliners for rubber or leather tires. No. 149,574; Dec. 13.
- Finlayson, Bousfield & Co., Ltd., Johnstone, Scotland. Yarn and threads. No. 142,266; May 10; v. 286; p. 404.
- Finlayson, Estelle B., Ossining, N. Y. Liquid face-powder. No. 146,090; Aug. 30; v. 289; p. 1014.
- Finsh, Nelson W., Chicago, Ill. Tire-fillers. No. 149,920; Dec. 27.
- Fire-Proof Furniture and Construction Company, New York, N. Y., and Miamisburg, Ohio. Tool and deposit boxes, merchandise-bins. No. 148,021; Nov. 8.
- Firsching, Joseph A., Utica, N. Y. Certain underwear of knitted, netted, and textile fabrics. No. 146,461; Sept. 6; v. 290; p. 210.
- Firsching, Joseph A., Utica, N. Y. Underwear for men, women, and children. No. 147,310; Oct. 11.
- Firestone Tire and Rubber Company, The, Akron, Ohio. Tires, tubes, and tire accessories. No. 140,804; Mar. 29; v. 284; p. 943.
- Firestone Tire and Rubber Company, The, Akron, Ohio. Resilient tires and inner tubes. No. 144,391; July 5; v. 288; p. 192.
- Firstade Laboratories, Inc., Tulsa, Okla. Antiseptic mentholated cream. No. 143,801; June 7; v. 287; p. 191.
- Firth-Sterling Steel Company, McKeesport, Pa. Steel, including tool and die steel. No. 149,424; Dec. 13.
- Fischel Paper Company, Albany, N. Y. Certain papers. No. 148,022; Nov. 8.
- Fischer, Albert C., Chicago, Ill. Hairpins, lacings, hooks and eyes, &c. No. 138,617; Jan. 4; v. 282; p. 186.
- Fischer, Albert C., Chicago, Ill. Construction material. No. 138,618; Jan. 4; v. 282; p. 186.
- Fischer, Albert C., Chicago, Ill. Hair-nets, ribbons, handkerchiefs, veils. No. 148,023; Nov. 8.
- Fischer, B., & Co., Inc., New York, N. Y. Rice. No. 148,329; Nov. 8.
- Fischer, J., & Bro., New York, N. Y. Sheet-music and music-books. No. 149,572; Dec. 13.
- Fischer, Milton A., New York, N. Y. Scarf-pin protectors. No. 142,529; May 17; v. 286; p. 627.
- Fischman, Wm., Inc., New York, N. Y. Periodically-issued booklets. No. 144,761; July 19; v. 288; p. 617.
- Fishback Co., The, Indianapolis, Ind. Pancake-flour and maple-syrup used for food purposes. No. 147,486; Oct. 18.
- Fishel, Henry W., & Sons, Inc., New York, N. Y. Certain jewelry. Nos. 149,053-4; Dec. 6.
- Fishel, Samuel J., Brooklyn, N. Y. Children's underwaists. No. 143,335; May 31; v. 286; p. 1049.
- Fisher Brothers, New Castle, Pa. Shirts, pants, and overalls. No. 142,530; May 17; v. 286; p. 627.
- Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. No. 144,765; July 19; v. 288; p. 617.
- Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. No. 145,665; Aug. 16; v. 289; p. 593.
- Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. No. 146,225; Sept. 6; v. 290; p. 199.
- Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. No. 148,406; Nov. 15.
- Fisher, George, New York, N. Y. Polish for furniture. No. 149,382; Dec. 13.
- Fisher, Louis M., Clarksdale, Mo. Automatic automobile-jacks. No. 144,392; July 5; v. 288; p. 192.
- Fisher, Louis M., Clarksdale, Mo. Belt-dressing compositions. No. 148,024; Nov. 8.
- Fisheries Products Co., Inc., The, New York, N. Y. Fertilizers. No. 149,921; Dec. 27.
- Fisk, D. B., & Co., Chicago, Ill. Trimmed and untrimmed hats for women and children. No. 142,369; May 10; v. 286; p. 408.
- Fiske Brothers Refining Co., New York, N. Y. Launching-greases. No. 138,813; Jan. 11; v. 282; p. 376.
- Fiske Brothers Refining Co., New York, N. Y. Lubricating oils and greases. No. 141,548; Apr. 26; v. 285; p. 779.
- Fita, Josef, Niagara Falls, N. Y. Salves for healing cuts and bruises. No. 140,383; Mar. 15; v. 284; p. 581.
- Fitch, F. W., Company, The, Des Moines, Iowa. Perfumes. No. 149,055; Dec. 6.
- Fitchburg Machine Works, Fitchburg, Mass. Lathes. No. 149,575; Dec. 13.
- Fites, William E., San Francisco, Calif. Writing-inks. No. 142,531; May 17; v. 286; p. 627.
- Fitterman, Leon, Atlanta, Ga. Hair-tonic. No. 143,003; May 24; v. 286; p. 846.
- Fitz Water, Marshall V., Hot Springs, Ark. Hair and scalp tonic. No. 139,296; Feb. 1; v. 283; p. 169.
- Fitzgerald, Asa L., El Centro, Calif. Pile remedy. No. 138,814; Jan. 11; v. 282; p. 376.
- Fitzgerald Manufacturing Company, The, Torrington, Conn. Massage shower-bath sprays. No. 138,619; Jan. 4; v. 282; p. 187.
- Fitzpatrick Bros., Chicago, Ill. Preparation for cleaning, scouring, and polishing metal, glass, woodwork, &c. Nos. 139,534-5; Feb. 8; v. 283; p. 351.
- Fitzpatrick Bros., Chicago, Ill. Soap. No. 141,121; Apr. 12; v. 285; p. 380.
- Fitzpatrick Bros., Chicago, Ill. Cleaning and scouring preparation for household use, machinery, &c. No. 144,215; June 28; v. 287; p. 774.
- Fitzpatrick Bros., Chicago, Ill. Soap and soap flakes. No. 144,571; July 12; v. 288; p. 424.
- Fitzpatrick Bros., Chicago, Ill. Soap flakes, soap chips, and soap. No. 144,762; July 19; v. 288; p. 617.
- Fitzpatrick Bros., Chicago, Ill. Cleaning and scouring preparation for glass and metal, &c. No. 145,360; Aug. 2; v. 289; p. 178.
- Fitzpatrick Bros., Chicago, Ill. Cleaning and scouring preparation. No. 147,311; Oct. 11.



*Alphabetical list of registrants of trade-marks—Continued.*

- Fitzpatrick Bros., Chicago, Ill. Soap. No. 147,312; Oct. 11.
- Fitzpatrick Bros., Chicago, Ill. Soap. Nos. 150,195-9; Dec. 27.
- Five Point Company, Incorporated, Richmond, Va. Medicinal preparations. No. 139,793; Feb. 22; v. 283; p. 752.
- Flanders, A. H., Company, Chicago, Ill. Ladies' wearing-apparel. No. 144,763; July 19; v. 288; p. 617.
- Flannery Bolt Company, Pittsburgh, Pa. Lock-nuts. No. 146,226; Sept. 6; v. 290; p. 199.
- Flannery, J. Rogers, Pittsburgh, Pa. Preparation for cleaning and renovating oil and gas wells. No. 138,964; Jan. 18; v. 282; p. 554.
- Flash Hot Water Heater Co., Philadelphia, Pa. Hot-water heaters. No. 146,736; Sept. 20; v. 290; p. 633.
- Fleischmann Company, The. (See Corby Company, The, assignor.)
- Fleisher, W. L., & Co., Inc., New York, N. Y. Driers and spray-nozzles. No. 148,832; Nov. 29.
- Fleet Photo Service, Washington, D. C. Photographic prints. No. 145,666; Aug. 16; v. 289; p. 593.
- Fletcher-Wickes Co., Chicago, Ill. Reproducers and tone-arms for phonographs. No. 149,770; Dec. 20.
- Fletcher & Wilson Coffee Company, Nashville, Tenn. Candy. No. 143,004; May 24; v. 286; p. 846.
- Flexible Steel Lacing Company, Chicago, Ill. Hinged belt-fasteners. No. 141,744; Apr. 26; v. 285; p. 787.
- Flexume Sign Company, Buffalo, N. Y. Electrically-illuminated signs. No. 148,025; Nov. 8.
- Flexo Lens Protector Company, Camden, N. J. Glass lens for headlights. No. 145,361; Aug. 2; v. 289; p. 178.
- Flex-Or-Crete Corporation, Boston, Mass. Autosolidifying structural compositions composed of cement, &c. No. 145,607; Aug. 16; v. 289; p. 593.
- Flexotile Floor Company, Rockford, Ill. Magnesite composition for making plastic building materials. No. 141,649; Apr. 26; v. 285; p. 779.
- Flinn, F. A., Inc., New York, N. Y. Writing and printing paper. No. 138,965; Jan. 18; v. 282; p. 554.
- Fli-No-Mo Manufacturing Company, Newport News, Va. Insecticide used against flies, roaches, fleas, &c. No. 143,963; June 21; v. 287; p. 579.
- Flint, Thomas E., Minoa, N. Y. Foot-powder. No. 148,026; Nov. 8.
- Flint and Walling Mfg. Co., Kendallville, Ind. Windmills complete with towers and parts of such windmills. No. 140,805; Mar. 29; v. 284; p. 943.
- Flom, Carl J., Baltimore, Md. Nerve and blood tonic. No. 147,097; Oct. 4.
- Florasynth Laboratories, Incorporated, Unionport, N. Y. Reducing compound for lithographic and printing inks. No. 143,336; May 31; v. 286; p. 1049.
- Florence Manufacturing Company, Northampton, Mass. Lather-brushes. No. 141,745; Apr. 26; v. 285; p. 787.
- Florence Manufacturing Company, Northampton, Mass. Dentifrice. No. 143,337; May 31; v. 286; p. 1049.
- Flores, Anania, Marianna, Pa. Hair-restorer. No. 138,815; Jan. 11; v. 282; p. 376.
- Flores, Anania, Marianna, Pa. Perfume. No. 138,966; Jan. 18; v. 282; p. 554.
- Flores, Rodolfo, Sedalia, Mo. Ointment for affections of the skin. No. 140,384; Mar. 15; v. 284; p. 581.
- Florsheim Shoe Company, The, Chicago, Ill. Boots and shoes made of leather. No. 144,764; July 19; v. 288; p. 617.
- Florsheim Shoe Company, The, Chicago, Ill. Boots and shoes made of leather. No. 146,737; Sept. 20; v. 290; p. 633.
- Floto, Gustav T., Washington, D. C. Salve for piles. No. 149,056; Dec. 6.
- Floyd Wells Co., The, Royersford, Pa. Certain named coating. No. 140,243; Mar. 8; v. 284; p. 368.
- Fluegelman, N., & Co., Inc., New York, N. Y. Cotton and cotton and silk mixture piece goods. No. 146,089; Aug. 30; v. 289; p. 1014.
- Foamite Firefoam Company, New York, N. Y. Hand-operated, portable, or stationary fire-extinguishers. No. 148,027; Nov. 8.
- Foamite Firefoam Company, New York, N. Y. Fire-extinguishing compounds. No. 148,650; Nov. 22.
- Foco Oil Company, Franklin, Pa. Lubricating-oil. No. 140,123; Mar. 8; v. 284; p. 364.
- Folberth Auto Specialty Co., The, Cleveland, Ohio. Windshield-cleaners, squeegee type. No. 148,578; Nov. 15.
- Folding Partition Company, The, New York, N. Y., assignors to The J. G. Wilson Corporation. Partitions and doors. No. 146,926; Sept. 20; v. 290; p. 641.
- Foley, John W., Amador City, Calif. Chemicals and medicines. No. 140,385; Mar. 15; v. 284; p. 581.
- Folgman, Emanuel, Brooklyn, N. Y. Self-blowing torch. No. 149,057; Dec. 6.
- Folke, Howard, Los Angeles, Calif. Hair-grower. No. 147,098; Oct. 4.
- Folsom-Miller Company, The, Milwaukee, Wis. Laundry-washing machines. No. 142,532; May 17; v. 286; p. 627.
- Foltmer, C. H., Wray, Colo. Auxiliary power-transmitting shafts for automobiles. No. 141,938; May 3; v. 286; p. 184.
- Fond du Lac Bedding Co., Fond du Lac, Wis. Mattresses and pillows. No. 142,868; May 17; v. 286; p. 638.
- Fontaine, Louis H., Worcester, Mass. Insecticides. No. 146,091; Aug. 30; v. 289; p. 1014.
- Food Trade Publishing Company, The, New York, N. Y. Periodical publication published weekly. No. 139,981; Mar. 1; v. 284; p. 173.
- Foot, Schulze & Co., Dover, Del., and St. Paul, Minn. Women's leather boots and shoes. No. 139,677; Feb. 8; v. 283; p. 356.
- Foot, Schulze & Co., Dover, Del., and St. Paul, Minn. Leather boots and shoes. No. 147,848; Nov. 1.
- Foot & Jenks, Jackson, Mich. Extracts for food-flavoring purposes. No. 141,550; Apr. 26; v. 285; p. 779.
- Ford Auto Supply Company, St. Louis, Mo. Lubricating-oils. No. 148,407; Nov. 15.
- Ford Dealers Supply Company, Indianapolis, Ind. Governors for governing the speed of internal-combustion motors. No. 149,058; Dec. 6.
- Ford Flour Company, Nashville, Tenn. Wheat-flour. No. 143,005; May 24; v. 286; p. 846.
- Ford, Henry C., Lima, Ohio. Medicine for cholera and roup. No. 149,922; Dec. 27.
- Ford Motor Company, Highland Park, Mich. Periodical house organ published semimonthly. No. 144,766; July 19; v. 288; p. 617.
- Ford Roofing Products Co., Inc., Wilmington, Del., and Chicago, Ill. Prepared roofing—that is, felt roofing. No. 143,604; June 7; v. 287; p. 183.
- Foreign Patents Corporation, The, New York, N. Y. Motion-picture-projecting machines and parts thereof. No. 142,533; May 17; v. 286; p. 627.
- Forest Electric Co., Newark, N. J. Rheostats. No. 146,572; Sept. 13; v. 290; p. 421.
- Forest Electric Co., Newark, N. J. Electric-battery testers. No. 147,601; Oct. 25.
- Forest Electric Co., Newark, N. J. Electric-current rectifiers. No. 148,028; Nov. 8.
- Forest Electric Co., Newark, N. J. Electric-battery testers. No. 148,408; Nov. 15.
- Forged Steel Products Co. of N. J., Newark, N. J. Pliers. Nos. 141,355-6; Apr. 19; v. 285; p. 566.
- Forman Bassett Company, The, Cleveland, Ohio. Safety-paper. Nos. 149,059-60; Dec. 6.
- Forrest-Lydiard Co., The, Boston, Mass. Extracts, flavors, syrups, &c., and pastels used in the manufacture of non-alcoholic beverages. No. 139,536; Feb. 8; v. 283; p. 351.
- Forrest, T. W. W., Oakland, Calif. Vaporized grapes. No. 146,739; Sept. 20; v. 290; p. 633.
- Forstmann & Huffman Co., Passaic, N. J. Woolen piece goods. No. 143,338; May 31; v. 286; p. 1049.
- Forstmann & Huffman Co., Passaic, N. J. Woolen piece goods. Nos. 143,605-11; June 7; v. 287; p. 183.
- Forstmann & Huffman Co., Passaic, N. J. Woolen piece goods. Nos. 143,949-51; June 21; v. 287; p. 579.
- Forstmann & Huffman Company, Passaic, N. J. Woolen piece goods. No. 144,767; July 19; v. 288; p. 617.
- Forstmann & Huffman Company, Passaic, N. J. Woolen piece goods. Nos. 144,769-70; July 19; v. 288; pp. 617-8.
- Forstmann & Huffman Company, Passaic, N. J. Woolen piece goods. Nos. 146,092-7; Aug. 30; v. 289; p. 1014.
- Forstmann & Huffman Company, Passaic, N. J. Woolen piece goods. Nos. 146,227-8; Sept. 6; v. 290; p. 109.
- Forstmann & Huffman Company, Passaic, N. J. Woolen piece goods. No. 146,740; Sept. 20; v. 290; p. 633.
- Forstmann & Huffman Company, Passaic, N. J. Woolen piece goods. No. 147,096; Oct. 4.
- Forstmann & Huffman Co., Passaic, N. J. Woolen piece goods. No. 148,330; Nov. 8.
- Forstmann & Huffman Company, Passaic, N. J. Woolen piece goods. No. 149,923; Dec. 27.
- Forstner Chain Corporation, Irvington, N. J. Chains for personal adornment. Nos. 144,393-4; July 5; v. 288; p. 193.
- Forstner Chain Corporation, Irvington, N. J. Chains for personal adornment. No. 144,768; July 19; v. 288; p. 617.
- Forsyth Dental Infirmary for Children, The, Boston, Mass. Dental filling materials—namely, cements and alloys, &c. No. 142,534; May 17; v. 286; p. 627.
- Fort Pitt Bedding Company, Pittsburgh, Pa. Automobile seats and chairs. No. 142,539; May 17; v. 286; p. 627.
- Fort Pitt Brewing Company, Sharpsburg borough, Pa. A cereal maltless beverage. No. 139,794; Feb. 22; v. 283; p. 752.
- Fort Smith Coffee Company, Fort Smith, Ark. Coffee. No. 148,029; Nov. 8.
- Forzy, E. S., Germantown, Pa. Ladies' underwear, negligees, dresses, &c. No. 138,759; Jan. 4; v. 282; p. 191.
- Fosgate, Chester C., Co., Orlando, Fla. Fresh citrus fruits. No. 147,602; Oct. 25.
- Fosgate, Chester C., Co., Orlando, Fla. Fresh citrus fruits. No. 148,030; Nov. 8.
- Foss Launch & Tug Company, Tacoma, Wash. Tugs and barges. No. 147,849; Nov. 1.
- Foss, Lewis T., Southern Pines, N. C. Fresh peaches. No. 149,061; Dec. 6.
- Foster, Arthur F., Los Angeles, Calif. Hair-tonic. No. 140,124; Mar. 8; v. 284; p. 364.
- Foster Honey & Mercantile Co., The, Boulder, Colo. Honey. No. 140,594; Mar. 22; v. 284; p. 744.
- Foster-McClellan Co., Buffalo, N. Y., and London, England. Preparations for use in connection with digestive disorders. No. 146,741; Sept. 20; v. 290; p. 633.



- Foster, Norvil T., Columbus, Ohio. Antichattering fluid used in the treatment of speed-band linings and the like. No. 147,313; Oct. 11.
- Foster Rubber Company, Kennebunk, Me., and Boston, Mass. Rubber soles and heels. No. 138,760; Jan. 4; v. 282; p. 191.
- 4-One-Box Machine Makers, Portland, Me., and Rockaway, N. J. Boxes and packing-cases. No. 144,256; June 28; v. 287; p. 776.
- Fowler Grape Growers Association, Fowler, Calif. Fresh fruits. No. 141,551; Apr. 26; v. 285; p. 779.
- Fowler, John E., Rosslyn, Va. Non-alcoholic beverages and syrups for making same. No. 139,450; Feb. 1; v. 283; p. 175.
- Fowler Nail Co., The, Seymour, Conn., assignor to The Fowler & Union Horse Nail Company, New Haven, Conn. Cold-rolled horseshoe-nails. Nos. 149,062-3; Dec. 6.
- Fowler & Union Horse Nail Company. (See Fowler Nail Co., assignor.)
- Fox Bros. Mfg. Co., The, Peru, Ind., and New York, N. Y. Undershirts, drawers, chemises, nightgowns, and petticoats. No. 143,802; June 7; v. 287; p. 191.
- Fox Candy Company, Oakland, Calif. Candies. No. 140,125; Mar. 8; v. 284; p. 364.
- Fox Film Corporation, New York, N. Y. Moving-picture and photo-play films. No. 143,001; May 24; v. 286; p. 846.
- Fox, Helen M., Peekskill, N. Y. Canned and bottled honey and boxes of honeycomb. No. 149,383; Dec. 13.
- Fox, Matthew L., New York, N. Y. Belts for supporting garments. No. 139,073; Jan. 18; v. 282; p. 558.
- Fox Paint Co., The, Cincinnati, Ohio. Paint enamels. No. 143,006; May 24; v. 286; p. 846.
- Fox River Butter Company, Inc., New York, N. Y. Oleomargarin. No. 143,206; May 24; v. 286; p. 852.
- Fox River Paper Company, Appleton, Wis. Writing-paper. No. 148,651; Nov. 22.
- Foxley Stave & Lumber Co., Ltd., New Orleans, La. Rough lumber. Nos. 138,620-1; Jan. 4; v. 282; p. 187.
- Foyer, Chas. A., & Company, Cleveland, Ohio. Type-writer-ribbons and carbon-paper. No. 146,229; Sept. 6; v. 290; p. 199.
- Fractman, Joseph B., Wichita, Kans. Men's and boys' clothing. No. 141,939; May 3; v. 286; p. 184.
- Fraiberger, Max, San Francisco, Calif. Medicine for the treatment of anidrosis. No. 138,967; Jan. 18; v. 282; p. 554.
- Fram-Slamaker Hardware Company. (See Slaymaker, Samuel R., assignor.)
- Frame, Abraham L., Reading, Pa. Concrete-mixers. No. 149,924; Dec. 27.
- Francis, C. A., Norfolk, Va. Purgative medicine. No. 139,982; Mar. 1; v. 284; p. 173.
- Francis, George P., Pawtucket, R. I. Cigarettes. No. 142,535; May 17; v. 286; p. 627.
- Francisco Auto Heater Co., Columbus, Ohio. Certain vehicle-heaters. No. 147,212; Oct. 4.
- Franco, Agnes M., Philadelphia, Pa. Facial masks or packs. No. 146,098; Aug. 30; v. 289; p. 1014.
- Franco-American Food Company, The, Jersey City, N. J. Pork and beans, beans and spaghetti in hermetically-closed containers. No. 139,297; Feb. 1; v. 283; p. 169.
- Frank, B., & Sons, New York, N. Y. Sole-leather. Nos. 141,357-8; Apr. 19; v. 285; p. 566.
- Frank & Goldsmith, Chicago, Ill. Non-alcoholic, maltless beverage and syrup for making same. No. 148,652; Nov. 22.
- Frank & Hyman, Incorporated, San Francisco, Calif. Leather shoes. No. 139,298; Feb. 1; v. 283; p. 169.
- Frank, Isador, New York, N. Y. Children's overcoats, mackinaws, and reefers. No. 143,339; May 31; v. 286; p. 1049.
- Frank Jackson Co., Chicago, Ill. Polish for leather shoes. No. 150,202; Dec. 27.
- Frank, Leopold, London, England. Lap-ropes made of textile fabrics. No. 142,267; May 10; v. 286; p. 404.
- Frank, Richard, New York, N. Y. Non-alcoholic fruit syrup used in the making of soft drinks. No. 139,537; Feb. 8; v. 283; p. 351.
- Frank, Richard, New York, N. Y. Vanilla extract. No. 146,742; Sept. 20; v. 290; p. 633.
- Frank Tea & Spice Co., The, Cincinnati, Ohio. Insect-powder. No. 141,553; Apr. 26; v. 285; p. 779.
- Frankel, Albert H., New York, N. Y. Malt-syrup for making malt beverages. No. 145,668; Aug. 16; v. 289; p. 593.
- Frankenstein, Arthur, New York, N. Y. Military game-board. No. 146,743; Sept. 20; v. 290; p. 633.
- Franklin, Aleathia D., Daytona, Fla. Pharmaceutical preparations. No. 144,395; July 5; v. 288; p. 193.
- Franklin MacVeagh & Company, Chicago, Ill. Wheat breakfast food and food ingredient. No. 145,137; July 26; v. 288; p. 814.
- Franklin, N. A., Mrs., Houston, Tex. Hair tonic and grower, shampoo, pressing-oil, and temple-grower. No. 145,670; Aug. 16; v. 289; p. 593.
- Franklin Optical Company, Indianapolis, Ind. Reading-glasses. No. 146,573; Sept. 13; v. 290; p. 421.
- Franklin Peanut Co., Franklin, Va. Peanuts in the shell. No. 147,603; Oct. 25.
- Franklin Peanut Company, Franklin, Va. Peanuts in the shell. No. 148,031; Nov. 8.
- Franklin Peanut Company, Franklin, Va. Peanuts in the shell. No. 148,833; Nov. 29.
- Franklin, Samuel F., Minneapolis, Minn. Compound for preventing fogging of automobile windshields and windows. No. 139,538; Feb. 8; v. 283; p. 351.
- Franklin Tractor Company, The, Middletown, Ohio. Tractors. No. 141,552; Apr. 26; v. 285; p. 779.
- Fraser, Carleton M., Bridgeport, Conn. Motion-picture films. No. 143,612; June 7; v. 287; p. 183.
- Frazier, Fannie, Chicago, Ill. Medicine used as a uterine sedative. No. 145,952; Aug. 23; v. 289; p. 787.
- Frazier, Russell R., Eldora, Iowa. Soaps for laundry and toilet purposes, for removing grease and stains from fabrics, &c. No. 148,410; Nov. 15.
- Freadrich, Joseph J., St. Louis, Mo. Leather belting. No. 138,622; Jan. 4; v. 282; p. 187.
- Freadrich, Joseph J., St. Louis, Mo. Leather belting. No. 141,746; Apr. 26; v. 285; p. 787.
- Freck, Harry M., Columbus, Ohio. Laxative and liver pills. No. 145,669; Aug. 16; v. 289; p. 593.
- Frederick Stearns & Co., Detroit, Mich. Medicines. No. 146,144; Aug. 30; v. 289; p. 1015.
- Frederick Stearns & Co., Detroit, Mich. Perfumes, toilet waters, and face-powders. No. 146,145; Aug. 30; v. 289; p. 1015.
- Fred'k H. Sprague Co., Fitchburg, Mass. Boys' blouses. No. 140,219; Mar. 8; v. 284; p. 367.
- Freedy, J. W., Conroe, Tex. Sheet-rubber tire-patches and tube-patches, brake-lining, &c. No. 149,064; Dec. 6.
- Freedman, Arthur O., Boston, Mass. Skin-lotion. No. 141,940; May 3; v. 286; p. 184.
- Freedman & Co., Harrisburg, Pa. Articles of clothing. No. 140,268; Mar. 8; v. 284; p. 371.
- Freefloating Poppet Valve Company, The, Salt Lake City, Utah. Internal-combustion engines and parts thereof. No. 147,314; Oct. 11.
- Freeland Overall Manufacturing Co., Freeland and Dubois, Pa. Work coats, shirts, pants, and trousers and overalls. No. 149,065; Dec. 6.
- Freeman-Daughaday Co., Chartley, Mass. Jewelry. No. 143,007; May 24; v. 286; p. 846.
- Freeman, Lottie E., Boston, Mass. Child's garment. No. 141,359; Apr. 19; v. 285; p. 566.
- Freeman, Sidney J., & Sons, New York, N. Y. Cigars, cigarettes, smoking, chewing, and scrap tobacco. No. 144,396; July 5; v. 288; p. 193.
- Frees, H. E., Company, The, Chicago, Ill. Malt and hop syrup used for food purposes. No. 145,362; Aug. 2; v. 289; p. 178.
- Fregin, Lawrence E., Chicago, Ill. Furniture-polish. No. 140,595; Mar. 22; v. 284; p. 744.
- Freireich, Louis, Chicago, Ill. Underwear for women, made of textile fabric. No. 139,795; Feb. 22; v. 283; p. 752.
- Freixas, Antoine, Buenos Aires, Argentina. Alcoholic beverage tinctured with anise. No. 146,744; Sept. 20; v. 290; p. 633.
- French American Import Co., Boston, Mass. Hand-made lace pieces. No. 145,094; July 26; v. 288; p. 813.
- French American Import Co., Boston, Mass. Hand-embroidered underwear. No. 145,556; Aug. 9; v. 289; p. 407.
- French American Import Co., Boston, Mass. Shoes of leather and of leather and fabric. No. 148,834; Nov. 29.
- French Battery & Carbon Co., Madison, Wis. Portable electric hand-lamps. No. 138,816; Jan. 11; v. 282; p. 376.
- French Battery & Carbon Co., Madison, Wis. Dry batteries and flashlight cases. No. 139,074; Jan. 18; v. 282; p. 558.
- French Battery & Carbon Co., Madison, Wis. Dry-cell and flashlight batteries, portable electric hand-lamps, &c. No. 139,539; Feb. 8; v. 283; p. 351.
- French Battery & Carbon Co., Madison, Wis. Dry-cell batteries and flashlight batteries. Nos. 140,596-7; Mar. 22; v. 284; p. 744.
- French Battery & Carbon Co., Madison, Wis. Dry-cell batteries. No. 149,925; Dec. 27.
- Frères, Rueff, La Chaux-de-Fonds, Switzerland. Watches. No. 141,123; Apr. 12; v. 285; p. 380.
- Frick, Adolf F., San Francisco, Calif. Preparation for dandruff, itching scalp and eczema. No. 148,032; Nov. 8.
- Frick Company, Waynesboro, Pa. Threshing machinery, sawmills, portable and stationary steam-engines, &c. No. 143,952; June 21; v. 287; p. 579.
- Frick Company, Waynesboro, Pa. Machinery—namely, ice-making and refrigerating machinery. No. 144,236; June 28; v. 287; p. 775.
- Frick Company, Waynesboro, Pa. Threshing machinery, sawmills, steam-engines, &c. No. 149,674; Dec. 20.
- Friedlander Leather Co., Inc., New York, N. Y. Leather. No. 146,745; Sept. 20; v. 290; p. 633.
- Friedman, Ike K., Fort Worth, Tex. Ice-cream and frozen custard. No. 142,536; May 17; v. 286; p. 627.
- Friedman & Krieger, New York, N. Y. Cotton and silk piece goods and combinations of same. No. 145,557; Aug. 9; v. 289; p. 407.
- Friedrich-Friedrich Chemical Company, Philadelphia, Pa. Medicinal preparations. No. 144,572; July 12; v. 288; p. 424.
- Friedstein, Hyman, Chicago, Ill. Remedy for dysmenorrhea. No. 140,806; Mar. 29; v. 284; p. 943.



*Alphabetical list of registrants of trade-marks—Continued.*

- Frier, John, St. Louis, Mo. Shoe-laces. No. 143,953; June 21; v. 287; p. 579.
- Frlndel, Max, New York, N. Y. Obesity-tabules. No. 139,138; Jan. 25; v. 282; p. 734.
- Fritz, Geo. H., & Son, Newark, N. J. Caramels. No. 140,598; Mar. 22; v. 284; p. 744.
- Fritz, George H., & Sons, Newark, N. J. Candy. No. 141,554; Apr. 26; v. 285; p. 779.
- Frontier Chemical Co., Buffalo, N. Y. Cleaner for cleaning metal before electroplating the same. No. 148,835; Nov. 29.
- Froznure Milk Products Co., Birmingham, Ala. Milk products, ice-creams, sherbets, and frozen ices. No. 148,409; Nov. 15.
- Fruit Distributors Service Co., Inc., Chicago, Ill. Cantaloupes and lettuce. No. 146,746; Sept. 20; v. 290; p. 633.
- Fruit Supply Company, St. Louis, Mo. Fresh apples. No. 138,968; Jan. 18; v. 282; p. 554.
- Fruited Cereal Company, Dover, Del., and Quincy, Ill. Breakfast food comprising a combination of cereals and fruits. No. 141,941; May 3; v. 286; p. 184.
- Fryer, Charles H., New York, N. Y. General medicinal tonic. No. 139,299; Feb. 1; v. 283; p. 169.
- Fuchs, Arnold, New York, N. Y. Certain articles of clothing. No. 145,671; Aug. 16; v. 289; p. 593.
- Fuld, Traube & Co., Inc., New York, N. Y. Silk hair-nets. No. 141,555; Apr. 26; v. 285; p. 779.
- Fuld, Traube & Co., Inc., New York, N. Y. Silk hair-nets. No. 142,537; May 17; v. 286; p. 627.
- Fuld, William, Baltimore, Md. Jewelry. No. 140,126; Mar. 8; v. 284; p. 364.
- Fuld, William, Baltimore, Md. Talking-boards. No. 142,200; May 3; v. 286; p. 194.
- Fuld, William, Baltimore, Md. Liniment for rheumatism. No. 143,008; May 24; v. 286; p. 846.
- Fuld, William, Baltimore, Md. Talking-boards. No. 148,331; Nov. 8.
- Fuller Brush Company, The, Hartford, Conn. Racks and trays. No. 143,340; May 31; v. 286; p. 1049.
- Fuller Brush Company, The, Hartford, Conn. Crumb-trays, crumb and sink scrapers. No. 144,216; June 28; v. 287; p. 774.
- Fundler, Louis, New York, N. Y. Soaps. No. 141,122; Apr. 12; v. 285; p. 380.
- Funk & Wagnalls Company, New York, N. Y. Publications relating to the study of languages. No. 143,009; May 24; v. 286; p. 846.
- Funk & Wagnalls Company, New York, N. Y. Phonograph-records. No. 144,397; July 5; v. 288; p. 193.
- Furniture-polish, Columbia Graphophone Company. No. 144,730; July 19; v. 288; p. 616.
- Futurist Company, The, assignor to The Marathon Underwear Company, Chicago, Ill. Underwear. No. 139,983; Mar. 1; v. 284; p. 173.
- Fybusch, Moses F., Los Angeles, Calif. Phonographs. No. 141,906; May 3; v. 286; p. 183.
- G & J Tire Company, Indianapolis, Ind. Vehicle-tires made of rubber. No. 142,394; May 10; v. 286; p. 411.
- G. & J. Tire Company, Indianapolis, Ind. Vehicle-tires made of rubber. No. 143,874; June 14; v. 287; p. 402.
- Gabilla, Henriette, Paris, France. Soaps. Nos. 145,095-6; July 26; v. 288; p. 813.
- Gabilla, Henriette, Paris, France. Toilet preparations. No. 148,033; Nov. 8.
- Gaebler, Adolph N., St. Louis, Mo. Toilet and medicinal preparations and chemical preparations. No. 145,953; Aug. 23; v. 289; p. 787.
- Gaelic League of the State of New York, New York, N. Y. Quarterly magazine. No. 139,796; Feb. 22; v. 283; p. 752.
- Gayney, Aloysius R., Brooklyn, N. Y. Mouth-wash. No. 139,805; Feb. 22; v. 283; p. 752.
- Gage, Joseph A., Dallas, Tex. Canned chilli-con-carne, red beans, and beans and pork. No. 139,716; Feb. 15; v. 283; p. 541.
- Gahan Baking Company, Worcester, Mass. Doughnuts. No. 149,675; Dec. 20.
- Gairing Tool Company, The, Detroit, Mich. Metal-working tools. No. 143,341; May 31; v. 286; p. 1049.
- Galassi, P., Corporation, Boston, Mass. Sockets and metallic strips used in laying composition and plastic floors and walls. No. 145,097; July 26; v. 288; p. 813.
- Galbraith & Co., Seattle, Wash. Compressed hay. No. 146,462; Sept. 6; v. 290; p. 210.
- Galdo Dulzaides y Compania, Cardenas, Matanzas, Cuba. Watches, clocks, alarm-clocks. No. 149,310; Dec. 6.
- Gale, Beresford, Philadelphia, Pa. Electrically-heated combs. No. 149,773; Dec. 20.
- Galland-Henning Mfg. Co., Milwaukee, Wis. Machinery consisting of hydraulic and screw presses, pumps, &c. No. 148,653; Nov. 22.
- Gallatin Valley Milling Company, Seattle, Wash., and Belgrade, Mont. Wheat-flour. Nos. 148,034-42; Nov. 8.
- Gallatin Valley Milling Company, Seattle, Wash., and Belgrade, Mont. Wheat-flour. No. 148,654; Nov. 22.
- Galloway, George W., New York, N. Y. Chemical solution for the removal of obstructions in drain-pipes. No. 148,836; Nov. 29.
- Galle, Edward E., Los Angeles, Calif. Adhesive gum and cement, glue. No. 142,541; May 17; v. 286; p. 627.
- Gallerani, Alexander, Company, Pittsburgh, Pa. Macaroni. No. 145,363; Aug. 2; v. 289; p. 178.
- Galli, Emile, New York, N. Y. Preparation for dressing and cleaning the hair and scalp. No. 139,984; Mar. 1; v. 284; p. 173.
- Gammeter, W. F., Company, The, Cadiz, Ohio. Calender stock-shells. No. 147,604; Oct. 25.
- Gammon, A. S. J., Norfolk, Va. Booklets published monthly used in connection with saving systems. No. 145,365; Aug. 2; v. 289; p. 179.
- Gandara y Haz, Vigo, Spain. Preserved fish. No. 141,136; Apr. 12; v. 285; p. 381.
- Gandolfo-Ghio Mfg. Co., St. Louis, Mo. Spaghetti, macaroni, vermicelli, and noodles. No. 149,384; Dec. 13.
- Gandolfo, Giuseppe, New York, N. Y. Bread. No. 147,099; Oct. 4.
- Gannon Grocery Company, Marquette, Mich. Certain foods. No. 147,487; Oct. 18.
- Gano-Downs Clothing Company, The, Denver, Colo. Men's suits and overcoats. No. 149,774; Dec. 20.
- Gans, John, New York, N. Y. Thoroughbred dogs. No. 149,576; Dec. 13.
- Garcia & Maggini Co., San Francisco, Fresno, Watsonville, Sebastopol, Santa Rosa, Forestville, and Healdsburg, Calif. Canned fresh and dried fruits. No. 142,542; May 17; v. 286; p. 627.
- Garcia & Maginni Co., San Francisco, Fresno, Watsonville, Sebastopol, Santa Rosa, Forestville, and Healdsburg, Calif. Fresh and dried fruits. No. 146,747; Sept. 20; v. 290; p. 633.
- Gard, Thomas D., Co., Inc., Worcester, Mass. Certain jewelry, badges, emblems, medals, and trophies. No. 147,605; Oct. 25.
- Garden Chemical Company, New York, N. Y. Insecticides. No. 138,969; Jan. 18; v. 282; p. 554.
- Gardineer, Marian F., Seattle, Wash. Dolls, dolls' dresses, and dress-patterns therefor. No. 143,342; May 31; v. 286; p. 1049.
- Gardiner-McInnes Co., Inc., New York, N. Y. Outside paints for houses, barns, and other structures. No. 144,523; July 5; v. 288; p. 199.
- Gardiner-McInnes Co., Inc., New York, N. Y. Paints, varnishes, paint enamels. No. 146,463; Sept. 6; v. 290; p. 211.
- Gardiner, Terry & Gray, New York, N. Y. Periodical publications, booklets, pamphlets, &c. No. 140,127; Mar. 8; v. 284; p. 364.
- Gardner, Henry A., Washington, D. C. Dechlorinated oils with or without resin additions. No. 146,987; Sept. 27; v. 290; p. 804.
- Gardner, Moffat Co., Inc., New York, N. Y. Monthly periodicals. No. 143,010; May 24; v. 286; p. 846.
- Gardner Seed Company, Rochester, N. Y. Field, vegetable, and flower seeds. No. 143,343; May 31; v. 286; p. 1049.
- Gardos, Armand A., assignor to The United Drug and Candy Mfg. Co., Cleveland, Ohio. Laxative compound. No. 148,411; Nov. 15.
- Garin, George P., Chicago, Ill. Bank deposit-books. No. 148,837; Nov. 29.
- Garnsey, M. V., Spring Lake and Grand Haven, Mich. Glass holders, vases, and statuettes. No. 140,386; Mar. 15; v. 284; p. 581.
- Garrett and Company, Incorporated, Penn Yan, N. Y. Flavoring for foods. No. 140,807; Mar. 29; v. 284; p. 943.
- Garrett, Edwin T., Co., Lansdowne, Pa. Toilet-paper. No. 140,387; Mar. 15; v. 286; p. 587.
- Garrett, Howard L., Allentown, Pa. Plate-dentifrice. No. 143,344; May 31; v. 286; p. 1049.
- Garrison-Cook Candy Co., Macon, Ga. Stick-candy. No. 146,099; Aug. 30; v. 289; p. 1014.
- Garrity, L. M., & Co., Inc., Boston, Mass. Hair-waving fluids. No. 145,672; Aug. 16; v. 289; p. 593.
- Gartner Importing Corporation, New York, N. Y. Swiss cotton fabrics in the piece. No. 142,543; May 17; v. 286; p. 627.
- Garwood, William C., Seattle, Wash. Candy. No. 147,054; Sept. 27; v. 290; p. 808.
- Gasau-Thompson Company, Inc., Brooklyn, N. Y. Bed-springs or spring-mattresses for beds. No. 139,678; Feb. 8; v. 283; p. 356.
- Gasser, Charles B., et al., administrators. (See Gasser, Florence P.)
- Gasser, Florence P., deceased, Charles B. Gasser and Frank Anthony, administrators, assignors to Jersey Potato Chip Co., Reading, Pa. Potato chips. No. 149,926; Dec. 27.
- Gasser, M. M., Co., Duluth, Minn. Butter. No. 148,579; Nov. 15.
- Gast, Margaret, New York, N. Y. Liniments for rheumatic affections and other body-pains. No. 147,100; Oct. 4.
- Gaston, Williams & Wigmore, Far Eastern Division, Inc., New York, N. Y. Indigo dyes and paste, and Midland quick indigo. Nos. 143,345-6; May 31; v. 286; p. 1049.
- Gastun, A., & Company, Inc., New York, N. Y. Cotton goods in the piece—namely, sheetings. No. 140,388; Mar. 15; v. 284; p. 581.
- Gastun, A., & Company, Inc., New York, N. Y. Salad-oil pressed from corn. No. 145,366; Aug. 2; v. 289; p. 179.
- Gastun, A., & Company, Inc., New York, N. Y. Wheat-flour. No. 149,385; Dec. 13.



- Gates Rubber Company, The, Denver, Colo. Belting, hose, machinery packing, tires. No. 140,128; Mar. 8; v. 284; p. 365.
- Gates, Wm. Henry, Norfolk, Va. Home-made candies and chocolates. Nos. 140,808-9; Mar. 29; v. 284; p. 943.
- Gatkowski, Stanley, Chicago, Ill. Medical teas. No. 140,706; Mar. 22; v. 284; p. 750.
- Gaudynski, Joseph S., Milwaukee, Wis. Antiseptic cones for female debility. No. 143,964; June 21; v. 287; p. 579.
- Gaunt, Alfred C., Methuen, Mass. Woolen and worsted cloth in piece goods. No. 149,066; Dec. 6.
- Gauss, Henry C., Washington, D. C. Index-cards. No. 141,124; Apr. 12; v. 285; p. 380.
- Geary, Henry H., Fostoria, Ohio. Portfolios. No. 148,043; Nov. 8.
- Gebhardt, Emma M., Los Angeles, Calif. Ointment for the treatment of piles. No. 146,231; Sept. 6; v. 290; p. 199.
- Gebrüder Junghans, A.-G., Schramberg, Germany. Luminous paints containing radioactive substances. Nos. 144,398-9; July 5; v. 288; p. 193.
- Geck, Frederick A., New York, N. Y. Culture of *Bacillus Bulgaricus*. No. 139,679; Feb. 8; v. 283; p. 356.
- Gedro Mfg. Co., Quincy, Ill. Lubricating-greases. No. 148,412; Nov. 15.
- Gee-Go Wonder Soap Co., Atlanta, Ga. Soap. No. 139,300; Feb. 1; v. 283; p. 169.
- Geier, P. A., Company, The, Cleveland, Ohio. Electrical apparatus. No. 141,556; Apr. 26; v. 285; p. 779.
- Geigy Company, Inc., New York, N. Y. Dyestuffs. Nos. 143,011-12; May 24; v. 286; p. 846.
- Geigy Company, Inc., New York, N. Y. Dyestuffs. No. 146,644; Sept. 13; v. 290; p. 427.
- Geigy Company, Inc., New York, N. Y. Dyestuffs. No. 148,580; Nov. 15.
- Geigy Company, Inc., New York, N. Y. Dyestuffs. No. 149,067; Dec. 6.
- Gelatoid Corporation, New York, N. Y. Translucent gelatinous sheets. No. 145,098; July 26; v. 288; p. 813.
- Gem Hammock & Fly Net Company, The, Milwaukee, Wis. Polish for furniture, automobile-bodies, floors, &c. No. 141,942; May 3; v. 286; p. 184.
- Gem Hammock & Fly Net Company, The, Milwaukee, Wis. Maps. No. 143,013; May 24; v. 286; p. 846.
- General Candy Co., Milwaukee, Wis. Candy. Nos. 139,301-2; Feb. 1; v. 283; p. 169.
- General Chemical Company, New York, N. Y. Concrete and cement hardeners. No. 141,125; Apr. 12; v. 285; p. 381.
- General Chemical Company, New York, N. Y. Concrete and cement hardener. No. 141,360; Apr. 19; v. 285; p. 566.
- General Chemical Company, New York, N. Y. Baking-powder. No. 143,014; May 24; v. 286; p. 846.
- General Eclipse Co., The, Danielson, Conn. Writing-ink and writing-ink in tablet form. No. 143,347; May 31; v. 286; p. 1049.
- General Electric Company, Schenectady, N. Y. Glassware. No. 143,348; May 31; v. 286; p. 1049.
- General Electric Company, Schenectady, N. Y. Stationary induction apparatus. No. 148,044; Nov. 8.
- General Electric Company, Schenectady, N. Y. Certain glassware. Nos. 148,838-9; Nov. 29.
- General Electric Company, Schenectady, N. Y. Refractory composition for use in furnaces. No. 149,386; Dec. 13.
- General Embroidery & Military Supply Co., Inc., New York and Brooklyn, N. Y. Embroideries for military and civilian purposes. No. 143,349; May 31; v. 286; p. 1049.
- General Export Trading Co., Boston, Mass. Leathers. No. 140,810; Mar. 29; v. 284; p. 943.
- General Phonograph Corporation, New York, N. Y. Talking-machines, phonographs, and certain named phonographs and accessories. No. 149,577; Dec. 13.
- General Fireproofing Co., The, Youngstown, Ohio. Safes, keys, locks, safe fittings and interiors and parts thereof. No. 143,613; June 7; v. 287; p. 183.
- General Fireproofing Co., The, Youngstown, Ohio. Certain articles of furniture. No. 147,606; Oct. 25.
- General Fruit & Syrup Co., Baltimore, Md. Non-alcoholic, maltless, fruit beverage and syrups for making same. No. 140,389; Mar. 15; v. 284; p. 581.
- General Lamp & Motor Company, Inc., New York, N. Y. Arc and incandescent electric lamps. No. 148,045; Nov. 8.
- General Lead Batteries Company, Newark, N. J. Batteries and certain parts thereof. No. 147,773; Nov. 1.
- General Manufacturing Corporation, Milwaukee, Wis. Phonographs. No. 139,985; Mar. 1; v. 284; p. 173.
- General Manufacturing Corporation, Milwaukee, Wis. Phonographs. No. 146,232; Sept. 6; v. 290; p. 199.
- General Motors Corporation, Detroit, Mich. Motor-driven vehicles. No. 141,126; Apr. 12; v. 285; p. 381.
- General Naval Stores Co., New York, N. Y. Pine-oil. No. 141,747; Apr. 26; v. 285; p. 787.
- General Naval Stores Co., New York, N. Y. Steam-distilled pine-oil. No. 141,748; Apr. 26; v. 285; p. 787.
- General Naval Stores Co., New York, N. Y. Pine-tar oil. No. 141,749; Apr. 26; v. 285; p. 787.
- General Naval Stores Co., New York, N. Y. Hard-wood oil. No. 141,750; Apr. 26; v. 285; p. 787.
- General Naval Stores Co., New York, N. Y. Flotation-oil used in the flotation process of mineral separation. No. 141,751; Apr. 26; v. 285; p. 787.
- General Oil Company, Houston, Tex. Crude petroleum and its refined products. No. 141,557; Apr. 26; v. 285; p. 779.
- General Process Corporation, Boundbrook, N. J. Graphite oils and greases. No. 139,075; Jan. 18; v. 282; p. 558.
- General Process Corporation, Boundbrook, N. J. Refined graphites. No. 139,451; Feb. 1; v. 283; p. 175.
- General Utility Company, Philadelphia, Pa. Piston-rings. No. 149,069; Dec. 6.
- Geneva Watch Company, New York, N. Y. Ladies' and gentlemen's watches and clocks. No. 143,032; May 24; v. 286; p. 846.
- Gennert, Gustave C., New York, N. Y. Photographic developers. No. 146,748; Sept. 20; v. 290; p. 633.
- Gentee, Joseph, Brooklyn, N. Y. Throat-gargle. No. 146,464; Sept. 6; v. 290; p. 211.
- Genuine Haarlem Oil Mfg. Co., New York, N. Y. Haarlem oil for kidney, &c., troubles. No. 141,054; Apr. 5; v. 285; p. 187.
- Genuine Haarlem Oil Mfg. Co., New York, N. Y. Medicinal preparation. No. 146,465; Sept. 6; v. 290; p. 211.
- Genung, Chas. W., Madison, Ohio. Certain agricultural implements. No. 144,217; June 28; v. 287; p. 774.
- George, Maude S., St. Louis, Mo. Ladies' sanitary aprons, belts, napkins, &c. No. 138,623; Jan. 4; v. 282; p. 187.
- George, Maude S., St. Louis, Mo. Armpit dress-shields and diaper-supporters. No. 148,046; Nov. 8.
- George Urban Milling Company, Buffalo, N. Y. Rye-flour. No. 140,045; Mar. 1; v. 284; p. 177.
- Georgia Marble Company, The, Tate, Ga. Finished marble and cut stone. Nos. 143,848-9; June 14; v. 287; p. 399.
- Georgia Marble Company, The, Tate, Ga. Finished marble and cut stone. Nos. 144,771-2; July 19; v. 288; p. 618.
- Georgia Marble Company, The, Tate, Ga. Finished marble, marble cut to size, and cut stone. No. 145,673; Aug. 16; v. 289; p. 593.
- Georgia Marble Company, The, Tate, Ga. Marble cut to size, finished marble, and cut stone. No. 145,674; Aug. 16; v. 289; p. 593.
- Georgia Marble Company, The, Tate, Ga. Marble cut to size, finished marble, and cut stone. No. 147,607; Oct. 25.
- Georgia Vita Ligno Co., Brunswick, Ga. Wood-preserving compound. No. 143,205; May 24; v. 286; p. 852.
- Georgopulo, G. A., & Co., New York, N. Y. Finished calf-skin, kid, &c. No. 139,986; Mar. 1; v. 284; p. 173.
- Gerbasi, Francis C., assignor to Gerbasi Manufacturing Company, Inc., Brooklyn, N. Y. Ladies' belts of ornamental design in celluloid. No. 138,624; Jan. 4; v. 282; p. 187.
- Gerbasi Manufacturing Company, Inc. (See Gerbasi, F. C., assignor.)
- Gerber Company, The, Baltimore, Md. Candy. No. 149,927; Dec. 27.
- Gerber Undergarment Company, The, New York, N. Y. Negligées, dressing-sacks, pajamas, nightgowns, &c. No. 143,015; May 24; v. 286; p. 846.
- Germain Seed and Plant Company, Los Angeles, Calif. Vegetables, &c., seeds, bulbs, and nursery-stock. No. 143,803; June 7; v. 287; p. 191.
- Germ-A-Lene Manufacturing Company, Los Angeles, Calif. Germicides, insecticides, and disinfectants. No. 144,573; July 12; v. 288; p. 424.
- Gerson & Goodman, Philadelphia, Pa. Men's dress and negligée shirts. No. 138,625; Jan. 4; v. 282; p. 187.
- Gertner, Herman, New York, N. Y. Bread, rolls, pies, cakes, pastry. No. 139,076; Jan. 18; v. 282; p. 558.
- Ghiglino, Cesar, New York, N. Y. Concentrated fruit-syrup base, soft drinks, non-alcoholic, and wintergreen flavoring extract. No. 146,749; Sept. 20; v. 290; p. 633.
- Ghrist, John E., Des Moines, Iowa. Medicinal preparations. No. 143,016; May 24; v. 286; p. 846.
- Giachini Candy Co., Chicago, Ill. Candies. No. 145,889; Aug. 16; v. 289; p. 602.
- Giaconi, J. V., & Co., Long Beach, Calif. Canned fish. No. 149,928; Dec. 27.
- Gibbs, John, Terre Haute, Ind. Preparation for treatment of kidneys, liver, bladder, and sexual debility. No. 143,024; May 24; v. 286; p. 846.
- Gibbs Manufacturing Company, The, Canton, Ohio. Embroidery-hoops. No. 147,850; Nov. 1.
- Gibbs Preserving Company, Baltimore, Md. Canned fruits and vegetables. No. 140,390; Mar. 15; v. 284; p. 581.
- Gibbs, William M., Duluth, Minn. Shoe-polish. No. 149,929; Dec. 27.
- Gibson, A. C., Dayton, Tenn. Non-alcoholic beverage. No. 149,311; Dec. 6.
- Gibson Commercial Co., Salt Lake City, Utah. Flavoring-vanilla, a fluid extract. No. 146,750; Sept. 20; v. 290; p. 633.
- Gibson, Frank H., Omaha, Nebr. Coffee. No. 142,268; May 10; v. 286; p. 404.
- Gibson, Geo. R., Co., New York, N. Y. Brushes. No. 138,903; Jan. 11; v. 282; p. 380.
- Gibson, Geo. R., Co., New York, N. Y. Toothbrushes. Nos. 144,773-4; July 19; v. 288; p. 618.
- Gibson, Geo. R., Co., New York, N. Y. Shaving-brushes. No. 148,413; Nov. 15.



*Alphabetical list of registrants of trade-marks—Continued.*

- Gibson Mfg. Co., Concord, N. C. Cotton piece goods. No. 146,032; Aug. 23; v. 289; p. 792.
- Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Metal working, boring, drilling, and milling machines. No. 146,233; Sept. 6; v. 290; p. 199.
- Gigliardi, Felice, Turin, Italy. Leather belts. No. 138,626; Jan. 4; v. 282; p. 187.
- Gilberg, M. H., & Co., New York, N. Y. Cotton piece goods. No. 148,047; Nov. 8.
- Gilbert, A. C., Company, The, New Haven, Conn. Certain toys. No. 145,675; Aug. 16; v. 289; p. 593.
- Gilbert, Godfrey M., Chicago, Ill. Talking-machines and pianos. No. 148,414; Nov. 15.
- Gilbert, John O., Jackson, Mich. Candy. No. 142,203; May 3; v. 286; p. 194.
- Gilbert Paper Co., Menasha, Wis. Bond-paper. No. 140,037; Mar. 1; v. 284; p. 176.
- Gilbert Paper Co., Menasha, Wis. Bond-paper. No. 141,943; May 3; v. 286; p. 184.
- Gilbert Paper Company, Menasha, Wis. Ledger and writing paper. No. 145,099; July 26; v. 288; p. 813.
- Gillespie, Gordon F., Los Angeles, Calif. Dolls and dolls' hats and dresses. No. 142,546; May 17; v. 286; p. 627.
- Gillespie, John W., Birmingham, Ala. Scalp and hair preparations. No. 139,987; Mar. 1; v. 284; p. 173.
- Gillette Safety Razor Company, Boston, Mass. Safety-razors. No. 139,303; Feb. 1; v. 283; p. 169.
- Gillis & Geoghegan, New York, N. Y. Telescopic and non-telescopic stationary hoists and heads, jibs, &c. No. 143,954; June 21; v. 287; p. 579.
- Gilman, A. S., Printing Company, The, Cleveland, Ohio. Blank forms. No. 141,127; Apr. 12; v. 285; p. 381.
- Gilman Bros. Inc., Boston, Mass. Hair-nets and handkerchiefs. No. 149,676; Dec. 20.
- Gilmers Incorporated, Winston-Salem, N. C. Canned goods. No. 143,614; June 7; v. 287; p. 183.
- Gilmers Incorporated, Winston-Salem, N. C. Coffee. No. 143,615; June 7; v. 287; p. 183.
- Gilmore Petroleum Company, Los Angeles, Calif. Gasoline. No. 140,599; Mar. 22; v. 284; p. 744.
- Gilpin, Henry B., Co., The, Baltimore, Md. Certain medicinal and chemical preparations. No. 148,655; Nov. 22.
- Gilson, John E., Port Washington, Wis. Combination wheeled hoes, cultivators, and plows. No. 147,608; Oct. 25.
- Ginsberg, R. & Bro., New York, N. Y. Ladies' hair goods, such as ear-muffs, bobs, side waves, &c. No. 139,139; Jan. 25; v. 282; p. 734.
- Ginsburg, Nat. & Bro., New York, N. Y. Woolens, worsteds, chevots, &c. sold in the piece. No. 141,560; Apr. 26; v. 285; p. 780.
- Girard, David, Detroit, Mich. Medicinal preparation for piles, hemorrhages of the bowels, boils, &c. No. 146,235; Sept. 6; v. 290; p. 199.
- Gisiger, Emil, Selzach, Switzerland, and New York, N. Y. Watches, &c. No. 149,068; Dec. 6.
- Gisiger, Emil, Selzach, Switzerland, and New York, N. Y. Watches, watchcases, watch dials and movements, and alarm-clocks. Nos. 149,070-5; Dec. 6.
- Givan, G. E., Constantine, Ky. Poultry food. No. 149,930; Dec. 27.
- Given, John M., Co., The, Pittsburgh, Pa.; Chicago, Ill., and New York, N. Y. Hosiery. No. 143,616; June 7; v. 287; p. 183.
- Given, John M., Inc., Pittsburgh, Pa., New York, N. Y., and Chicago, Ill. Hosiery. No. 141,944; May 3; v. 286; p. 184.
- Gladding, B. F. & Co., Inc., South Otselic, N. Y. Irish reel fishing lines. Nos. 150,200-1; Dec. 27.
- Gladney Milling Company, Sherman, Tex. Wheat-flour. Nos. 143,017-20; May 24; v. 286; p. 846.
- Glandex Co., Inc., The, New York, N. Y. Ointment for inflammatory swellings of muscles or joints. No. 147,437; Oct. 11.
- Glandex Company, Inc., The, New York, N. Y. Laxative tablet. No. 145,954; Aug. 23; v. 289; p. 788.
- Glaser, Crandell Co., Chicago, Ill. Fruit preserves, pickled vegetables, relishes, oils, &c. No. 149,775; Dec. 20.
- Glasgow Meat Pie Company, Salt Lake City, Utah. Meat pies. No. 148,048; Nov. 8.
- Glass Industry Publishing Co., Inc., New York, N. Y. Publication issued monthly. No. 142,269; May 10; v. 286; p. 404.
- Glass Novelty Company, The, Chicago, Ill. Medicine-cabinets, baby-bassinets, cribs, children's dresses, &c. No. 144,237; June 28; v. 287; p. 775.
- Glazer, Joseph, Fort Worth, Tex. Non-alcoholic, non-cereal, maltless beverages and syrups therefor. No. 143,617; June 7; v. 287; p. 183.
- Glemby, S., Inc., New York, N. Y. Hair-nets. No. 139,797; Feb. 22; v. 283; p. 752.
- Glemby, S., Inc., New York, N. Y. Hair-nets. No. 141,558; Apr. 26; v. 285; p. 779.
- Glemby, S., Inc., New York, N. Y. Hair-nets. No. 143,244; May 24; v. 286; p. 856.
- Glemby, S., Inc., New York, N. Y. Hair-nets. Nos. 143,618-20; June 7; v. 287; p. 183.
- Glemby, S., Inc., New York, N. Y. Hair-nets. No. 143,804; June 7; v. 287; p. 191.
- Glemby's S. Sons Co. Inc., New York, N. Y. Hair-nets. No. 146,467; Sept. 6; v. 290; p. 211.
- Glemby's, S., Sons Co., Inc., New York, N. Y. Hair-nets. No. 149,076; Dec. 6.
- Glencairn Mfg. Co., Pawtucket, R. I. Shoe, corset, underwear, and blouse lacings, galloons, &c. No. 148,049; Nov. 8.
- Glenn, John W., Buffalo, N. Y. Certain paraffin toys. No. 148,761; Nov. 22.
- Glick Max Co., The, Cleveland, Ohio. Candy. No. 140,010; Mar. 1; v. 284; p. 174.
- Glick, Max, Company, The, Cleveland, Ohio. Candies. No. 140,707; Mar. 22; v. 284; p. 750.
- Glick, Max Co., The, Cleveland, Ohio. Candy. No. 147,609; Oct. 25.
- Glick, Max, Co., The, Cleveland, Ohio. Candy. No. 148,415; Nov. 15.
- Glidden Company, The, Cleveland, Ohio. Chemicals, pharmaceutical preparations, and dye colors. No. 139,798; Feb. 22; v. 283; p. 752.
- Glidden Company, The, Cleveland, Ohio. Paints and painters' materials. No. 140,129; Mar. 8; v. 284; p. 365.
- Glidden Company, The, Cleveland, Ohio. Chemicals, pharmaceutical preparations, and dye colors. No. 140,130; Mar. 8; v. 284; p. 365.
- Glidden Company, The, Cleveland, Ohio. Lithophone, (a manufactured product which is used as a base in the manufacture of paints.) No. 148,416; Nov. 15.
- Glidden-Hyde Co., Boston, Mass. Hosiery. No. 142,204; May 3; v. 286; p. 194.
- Glifograph Corporation, The, New York, N. Y. Motion-picture screens and projectors and parts thereof. No. 139,540; Feb. 8; v. 283; p. 351.
- Globe Automatic Sprinkler Company, Philadelphia, Pa. Automatic fire-sprinkler systems. No. 147,315; Oct. 11.
- Globe Canning Co., Eastport and North Lubec, Me. Sardines. No. 138,817; Jan. 11; v. 282; p. 376.
- Globe Cleansing Products Corporation, Paterson, N. J. Powder compound soluble in water, in itself non-saponaceous, used as a general cleanser. No. 144,775; July 19; v. 288; p. 618.
- Globe Cotton Oil Mills, Los Angeles, Calif. Vegetable compound for shortening and cooking purposes. No. 144,776; July 19; v. 288; p. 618.
- Globe Cotton Oil Mills, Los Angeles, Calif. Cotton-seed oils for cooking purposes and solidified fats for food purposes. No. 145,368; Aug. 2; v. 289; p. 179.
- Globe Electric Company, Milwaukee, Wis. Electrical apparatus. No. 148,050; Nov. 8.
- Globe Grain & Milling Co., Los Angeles, Calif. Certain foods. No. 145,100; July 26; v. 288; p. 813.
- Globe Grain & Milling Co., Los Angeles, Calif. Foods and ingredients of foods. No. 146,100; Aug. 30; v. 289; p. 1014.
- Globe Grocery Stores, Inc., Brooklyn, N. Y. Toilet-paper. No. 140,391; Mar. 15; v. 284; p. 581.
- Globe Grocery Stores, Inc., Brooklyn, N. Y. Furniture-polish. No. 143,350; May 31; v. 286; p. 1049.
- Globe Grocery Stores, Inc., Brooklyn, N. Y. Certain chemical and pharmaceutical preparations. No. 145,681; Aug. 16; v. 289; p. 593.
- Globe Grocery Stores, Inc., Brooklyn, N. Y. Soap powder, laundry and toilet soap, silver-polish, &c. No. 148,051; Nov. 8.
- Globe Grocery Stores, Incorporated, New York and Brooklyn, N. Y. Baking-powder. No. 147,101; Oct. 4.
- Globe Shirt & Overall Company, Abingdon, Ill. Clothing. No. 143,021; May 24; v. 286; p. 846.
- Gloria Ice Cream Company, Stockton, Calif. Ice-cream, water-ices, and sherbets. No. 145,369; Aug. 2; v. 289; p. 179.
- Glory Beverage Company, St. Louis, Mo. Non-alcoholic, non-cereal, maltless beverage and syrup for making same. No. 139,799; Feb. 22; v. 283; p. 752.
- Glosstein, Louis, Wilkes-Barre, Pa. Storage batteries. No. 146,574; Sept. 13; v. 290; p. 421.
- Glover Company, The, Los Angeles, Calif. Preparation for the scalp. No. 144,574; July 12; v. 288; p. 424.
- Glynn Canning Company, Brunswick, Ga. Canned prawns and oysters. No. 139,452; Feb. 1; v. 283; p. 175.
- Glysson, Willard L., Bristol, Vt. Photographs. No. 148,052; Nov. 8.
- Godchaux, Aline M., New Orleans, La. Brassières. No. 140,600; Mar. 22; v. 284; p. 744.
- Goddard Tool Company, Chicago, Ill. Metal-working milling-tools and hobs. No. 149,578; Dec. 13.
- Godshalk, Elmer G., Blackwell, Okla. Locks and lock-casings. No. 144,218; June 28; v. 287; p. 774.
- Goetz, M. K., Brewing Co., St. Joseph, Mo. Malt cereal beverage. No. 139,800; Feb. 22; v. 283; p. 752.
- Goguen, Joseph, New Bedford, Mass. Liniment for rheumatism, sprains, pains, and swellings. No. 139,988; Mar. 1; v. 284; p. 173.
- Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. House-paint. No. 139,304; Feb. 1; v. 283; p. 169.
- Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Waterproofing liquid for treating fabrics. No. 143,955; June 21; v. 287; p. 579.
- Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Hardening liquid for treating concrete floors. No. 144,400; July 5; v. 288; p. 193.
- Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Dry, paste, and ready-mixed paints for general use. No. 144,777; July 19; v. 288; p. 618.



*Alphabetical list of registrants of trade-marks—Continued.*

- Goheen Corporation, The, Wilmington, Del., and New York, N. Y. Ready-mixed paint for hot surfaces. No. 148,053; Nov. 8.
- Golco Sanitary System, Inc., Philadelphia, Pa. Bathroom fixtures and supplies. No. 139,396; July 26; v. 288; p. 813.
- Golco Sanitary System, Inc., Philadelphia, Pa. Paper towels, napkins, wrappers for lunches, and toilet-paper. No. 143,022; May 24; v. 286; p. 846.
- Gold Cross Coffee Company, Cleveland, Ohio. Coffee. No. 144,778; July 19; v. 288; p. 618.
- Gold, Louis, New York, N. Y. Wraps, suits, dresses, coats, skirts, &c. No. 143,519; May 31; v. 286; p. 1055.
- Goldberg, David N., Chicago, Ill. Non-alcoholic, non-cereal, maltless fruit beverage. No. 145,370; Aug. 2; v. 289; p. 179.
- Goldberg & Rosenblatt, New York, N. Y. Waists. No. 146,469; Sept. 6; v. 290; p. 211.
- Goldberg, Solomon H., Chicago, Ill. Rubber tires of all kinds. No. 148,417; Nov. 15.
- Goldbert, Max L., New York, N. Y. Phonographs and parts thereof. No. 146,751; Sept. 20; v. 290; p. 633.
- Goldsee Mfg. Company, New York, N. Y. Lunch kit. No. 139,541; Feb. 8; v. 283; p. 351.
- Goldelle Ginger Ale Co. Inc., Chicago, Ill. Non-alcoholic, non-cereal maltless beverages and syrup for making same. No. 148,418; Nov. 15.
- Golden and Company, Washington, D. C. Butter. No. 139,542; Feb. 8; v. 283; p. 351.
- Golden Grain Juice Co., Minneapolis, Minn. Non-alcoholic beverage containing malt. No. 143,621; June 7; v. 287; p. 184.
- Golden Grain Juice Co., Minneapolis, Minn. Root-beer. No. 144,779; July 19; v. 288; p. 618.
- Golden Seal Laboratories, Inc., Parkersburg, W. Va. Preparation for treatment of indigestion and dyspepsia. No. 138,818; Jan. 11; v. 282; p. 376.
- Golden Seal Laboratories, Inc., Parkersburg, W. Va. Medicinal preparations. No. 139,801; Feb. 22; v. 283; p. 752.
- Golden State Canneries, Los Angeles, Calif. Canned fruits, vegetables, berries, and olives. No. 143,245; May 24; v. 286; p. 856.
- Golden State Products Company, San Francisco, Calif. Table-syrup. No. 140,131; Mar. 8; v. 284; p. 365.
- Goldenberg's, Washington, D. C. Lining-satin in the piece. No. 139,453; Feb. 1; v. 283; p. 175.
- Golding Fabrics Corporation, New York, N. Y. Silk piece goods. No. 149,077; Dec. 6.
- Golding, John, Atlanta, Ga. Liquid wax polish. No. 147,102; Oct. 4.
- Goldman, Herman B., Baltimore, Md. Certain medicinal preparations. No. 146,752; Sept. 20; v. 290; p. 633.
- Goldman-Kolber Co. Inc., The, New York, N. Y. Bracelets, brooches, and finger-rings. No. 141,561; Apr. 26; v. 285; p. 780.
- Goldman, Sigmund L., Chicago, Ill. Ginger-ale. No. 141,559; Apr. 26; v. 285; p. 779.
- Goldmeyer, Thiel & Arnold, New York, N. Y. Fruit fillings, mince-meat, apple and corn syrup, jelly, &c. No. 143,622; June 7; v. 287; p. 184.
- Goldsborough, John B., *et al.* (See Stim-U-Plant Tablet Co.)
- Goldsmith Clothing Company, St. Louis, Mo. Men's and boys' suits. No. 147,213; Oct. 4.
- Goldsmith, George P., San Francisco, Calif. Cement for filling fissures in metals. No. 144,524; July 5; v. 288; p. 199.
- Goldson, Elihu, Los Angeles, Calif. Dresses for women. No. 143,956; June 21; v. 287; p. 579.
- Goldstein, B. & Co., New York, N. Y. Clothiers' linings in the piece. No. 140,132; Mar. 8; v. 284; p. 365.
- Goldstein, John, New York, N. Y. Adhesive cement. No. 149,931; Dec. 27.
- Goldstein, Joseph A., New York, N. Y. Ladies' wearing apparel. No. 149,776; Dec. 20.
- Goldstein-Kirshner Co., New York, N. Y. Pajamas and nightgowns. No. 143,023; May 24; v. 286; p. 846.
- Goldstein, Max, Los Angeles, Calif. Pomades for the hair. No. 145,955; Aug. 23; v. 289; p. 788.
- Goldstein, Milton M., Minneapolis, Minn. Liquid cleaning compound for enameled woodwork, furniture, &c. No. 144,780; July 19; v. 288; p. 618.
- Goldstein, Neumann & Co., (now by change of name The Neumann Company, Inc.), Chicago, Ill. Men's and young men's suits and overcoats. No. 148,840; Nov. 29.
- Goldstone, Leo W., Oakland, Calif. Overalls, aprons, work-shirts, &c. No. 141,945; May 3; v. 286; p. 185.
- Goldwater, H. & Co. Inc., New York, N. Y. Girls' coats. No. 142,370; May 10; v. 286; p. 408.
- Gomez, Diego, Seville, Spain. Olives. No. 143,025; May 24; v. 286; p. 846.
- Gomi, Evelina F., New York, N. Y. Incense. No. 143,026; May 24; v. 286; p. 846.
- Gomi, Evelina F., New York, N. Y. Incense. No. 143,965; June 21; v. 287; p. 579.
- Gooch, E. E., Manufacturing Co., Martin, Tenn. Chemical preparation for the protection of cured meat from skip-pers and other insects. No. 149,078; Dec. 6.
- Good, Geo. S., Fire Brick Co., Patton, Pa. Fire-bricks and paving-blocks. No. 142,870; May 17; v. 286; p. 639.
- Good, Geo. S., Fire Brick Co., Patton, Pa. Fire-bricks and paving-blocks. No. 145,676; Aug. 16; v. 289; p. 593.
- Good Housekeeping Electric Shoppe, Minneapolis, Minn. Electric clothes washers and ironers. No. 142,545; May 17; v. 286; p. 627.
- Goodall Worsted Co., Sanford, Me., and New York, N. Y. Woolen, mohair, &c., piece goods. No. 139,305; Feb. 1; v. 283; p. 169.
- Goode, G. C., Company, The, Cleveland, Ohio. Milling-cutters, lathe-bits, drills, &c. No. 149,079; Dec. 6.
- Goodenuf Milling & Feed Co., Minneapolis, Minn. Stock and poultry food. No. 145,677; Aug. 16; v. 289; p. 593.
- Goodenuf Milling & Feed Co., Minneapolis, Minn. Stock and poultry food. No. 146,101; Aug. 30; v. 289; p. 1014.
- Goodfriend, Samuel H., Chicago, Ill. Mouth-wash. No. 148,841; Nov. 29.
- Goodman, Benjamin B., Philadelphia, Pa. Outer clothing for men and boys. No. 143,351; May 31; v. 286; p. 1049.
- Goodman Hosiery Mills, Indianapolis, Ind. Hosiery. No. 147,851; Nov. 1.
- Goodman Hosiery Mills, Indianapolis, Ind. Hosiery. No. 149,080; Dec. 6.
- Goodman Manufacturing Company, Chicago, Ill. Trucks for coal-cutting machines. No. 141,038; Mar. 29; v. 284; p. 952.
- Goodman Manufacturing Company, Chicago, Ill. Coal-cutting machines and coal and ore conveying machinery. No. 141,752; Apr. 26; v. 285; p. 788.
- Goodrich, B. F., Company, The, New York, N. Y. Belts made of rubber reinforced with fabric. No. 138,627; Jan. 4; v. 282; p. 187.
- Goodrich, B. F., Company, The, New York, N. Y. Hose made of rubber reinforced with fabric. No. 139,306; Feb. 1; v. 283; p. 169.
- Goodrich, B. F., Company, The, New York, N. Y. Hose and belting made of rubber reinforced with fabric. No. 139,307; Feb. 1; v. 283; p. 169.
- Goodrich, B. F., Company, The, New York, N. Y. Hose and pump valves. No. 139,308; Feb. 1; v. 283; p. 169.
- Goodrich, B. F., Company, The, New York, N. Y. Belts made of fabric combined with rubber. No. 139,309; Feb. 1; v. 283; p. 169.
- Goodrich, B. F., Company, The, New York, N. Y. Elevator-belts made of fabric combined with rubber. No. 140,811; Mar. 29; v. 284; p. 943.
- Goodrich, B. F., Company, The, New York, N. Y. Belts made of fabric combined with rubber. No. 140,812; Mar. 29; v. 284; p. 943.
- Goodrich, B. F., Company, The, New York, N. Y. Waterproof boots having leather tops and knit wool gaiters. No. 141,562; Apr. 26; v. 285; p. 780.
- Goodrich, B. F., Company, The, New York, N. Y. Belting and hose made of fabric combined with rubber and machinery packing made wholly or partly of rubber. No. 143,352; May 31; v. 286; p. 1049.
- Goodrich, B. F., Company, The, New York, N. Y. Waterproof coats, jackets, and boots, &c. No. 143,623; June 7; v. 287; p. 184.
- Goodrich, B. F., Company, The, New York, N. Y. Thread made of rubber. No. 143,957; June 21; v. 287; p. 579.
- Goodrich, B. F., Company, The, New York, N. Y. Dental, medical, and surgical apparatus of rubber. No. 144,219; June 28; v. 287; p. 774.
- Goodrich, B. F., Company, The, New York, N. Y. Valves, belting, hose, packings, &c. No. 144,401; July 5; v. 288; p. 193.
- Goodrich, B. F., Company, The, New York, N. Y. Pump-valves made wholly or partly of rubber. No. 144,402; July 5; v. 288; p. 193.
- Goodrich, B. F., Company, The, New York, N. Y. Boots and shoes made wholly or partly of rubber. No. 144,525; July 5; v. 288; p. 199.
- Goodrich, B. F., Company, The, New York, N. Y. Battery-jars made of hard or semihard rubber. No. 144,575; July 12; v. 288; p. 424.
- Goodrich, B. F., Company, The, New York, N. Y. Hose made of rubber reinforced with fabric. Nos. 144,781-2; July 19; v. 288; p. 618.
- Goodrich, B. F., Company, The, New York, N. Y. Stationers' rubber bands. No. 145,102; July 26; v. 288; p. 813.
- Goodrich, B. F., Company, The, New York, N. Y. Belts and belting made of rubber combined with fabric. No. 145,505; Aug. 2; v. 289; p. 184.
- Goodrich, B. F., Company, The, New York, N. Y. Gun recoil-pads. No. 146,645; Sept. 13; v. 290; p. 427.
- Goodrich, B. F., Company, The, New York, N. Y. Inner tubes made of rubber. No. 146,927; Sept. 20; v. 290; p. 641.
- Goodrich, B. F., Company, The, New York, N. Y. Hose made of rubber reinforced with fabric. No. 147,610; Oct. 25.
- Goodrich, B. F., Company, The, New York, N. Y. Conveyor-belts made of fabric combined with rubber. No. 147,774; Nov. 1.
- Goodrich, B. F., Company, The, New York, N. Y. Hose made of rubber reinforced with fabric and a helix of metal. No. 148,419; Nov. 15.
- Goodrich, B. F., Company, The, New York, N. Y. Gun-recoil pads for hand-arms. Nos. 149,387-8; Dec. 13.
- Goodrich, B. F., Company, The, New York, N. Y. Belting made of fabric combined with rubber. No. 149,389; Dec. 13.



*Alphabetical list of registrants of trade-marks—Continued.*

- Goodrich, B. F., Company, The, New York, N. Y. Hose, dredging-sleeves, and machinery packing. No. 149,425; Dec. 13.
- Goodrich, B. F., Company, The, New York, N. Y. Certain tires and non-adhesive rubber sheets for repairing tires. No. 149,777; Dec. 20.
- Goodyear Tire & Rubber Company, The, Akron, Ohio. Packings and hose. No. 138,904; Jan. 11; v. 282; p. 380.
- Goodyear Tire & Rubber Company, The, Akron, Ohio. Elastic vehicle-tires composed of rubber or rubber and fabric. No. 140,538. Mar. 15; v. 284; p. 586.
- Goodyear Tire & Rubber Company, The, Akron, Ohio. Pneumatic tires and tubes. No. 141,946; May 3; v. 286; p. 185.
- Goodyear Tire & Rubber Co., The, Akron, Ohio. Automobiles and motor-trucks. No. 143,353; May 31; v. 286; p. 1049.
- Goodyear Tire & Rubber Company, The, Akron, Ohio. Periodical issued monthly by the applicant. No. 143,624; June 7; v. 287; p. 184.
- Goodyear Tire & Rubber Company, Akron, Ohio. Vehicle-tires and treads therefor. No. 146,053; Aug. 23; v. 289; p. 792.
- Gooslin, M., Eubank, Ky. Ointment for the treatment of piles. No. 147,214; Oct. 4.
- Gordon & Dilworth, Inc., New York, N. Y. Orange marmalade. No. 138,628; Jan. 4; v. 282; p. 187.
- Gordon & Dilworth, Inc., New York, N. Y. Orange marmalade. No. 143,354; May 31; v. 286; p. 1049.
- Gordon Hollow Blast Grate Company, The, Greenville, Mich. Two-saw trimmer. No. 147,215; Oct. 4.
- Gordon Hollow Blast Grate Company, The, Greenville, Mich. Edgers. No. 147,216; Oct. 4.
- Gordon, Lucius I., Mobile, Ala. Furniture-polish. No. 149,390; Dec. 13.
- Gordon, Martin, New York, N. Y. Men's and young men's outer clothes—viz., trousers, vests, &c. No. 144,783; July 19; v. 288; p. 618.
- Gordon, M. Martin, Chicago, Ill. Toilet and pharmaceutical preparations. No. 146,236; Sept. 6; v. 290; p. 199.
- Gordon, Robert, Incorporated, Chicago, Ill. Hot-air furnaces. No. 147,611; Oct. 25.
- Gordonville Milling Company, Gordonville, Mo. Wheat-flour. No. 141,361; Apr. 19; v. 285; p. 566.
- Gordonville Milling Company, Gordonville, Mo. Wheat-flour. No. 141,755; Apr. 26; v. 285; p. 788.
- Gotham Brothers Company, The, Mount Pleasant, Mich. Built-up wood, ply-wood. No. 148,054; Nov. 8.
- Gorham Chocolate Co., Inc., Brooklyn, N. Y. Candies. No. 147,217; Oct. 4.
- Gorton Chocolate Company, Inc., Corning, N. Y. Candies. No. 144,119; June 21; v. 287; p. 587.
- Gorton-Pew Fisheries Company, Gloucester, Mass. Fresh and cured fish. No. 144,784; July 19; v. 288; p. 618.
- Goshen Sash and Door Company, Goshen, Ind. Title of a trade pamphlet published monthly. No. 148,055; Nov. 8.
- Goss, Emma, St. Louis, Mo. Hair grower or tonic. No. 143,625; June 7; v. 287; p. 184.
- Gosselin Trading Corporation, (now by change of name E. L. Quarles Corporation), New York, N. Y. Lubricating greases and oils and animal fats used as lubricants. No. 140,813; Mar. 29; v. 284; p. 943.
- Gosselin Trading Corporation, (now by change of name E. L. Quarles Corporation), New York, N. Y. Dental powders, massage and dental creams, perfumes. No. 141,137; Apr. 12; v. 285; p. 381.
- Goswado Manufacturing Company, Alameda, Calif. Hats and caps. No. 141,362; Apr. 19; v. 285; p. 566.
- Gotham Merchandise Company, New York, N. Y. Ladies' furnishings. No. 141,947; May 3; v. 286; p. 185.
- Gottfried, Dale M., Falls City, Oreg. Card game. No. 146,468; Sept. 6; v. 290; p. 211.
- Gottlieb Bauernschmidt Straus Brewing Company, The, Baltimore, Md. Beer and other cereal malt beverages. No. 139,802; Feb. 22; v. 283; p. 752.
- Gottlieb Bauernschmidt Straus Brewing Company, The, Baltimore, Md. Beer and other cereal malt beverages known and sold as near beer. Nos. 140,814-16; Mar. 29; v. 284; p. 943-4.
- Gottlieb Bauernschmidt Straus Brewing Company, Baltimore, Md. Cereal malt beverages. No. 141,128; Apr. 12; v. 285; p. 381.
- Gottmann, Theodore, & Sons, Chicago, Ill. Chocolate candy. No. 143,850; June 14; v. 287; p. 400.
- Gottschalk Steinberg & Co., Inc., New York, N. Y. Veilings, nettings, chiffons, ruffings, meshes, &c. No. 140,442; Mar. 15; v. 284; p. 583.
- Gottschalk Steinberg & Co., Inc., New York, N. Y. Veils, veilings, and nettings in the piece. No. 149,391; Dec. 13.
- Gotzian, C. & Company, St. Paul, Minn. Women's leather boots and shoes. No. 139,935; Feb. 22; v. 283; p. 758.
- Gouaux, Cecile C., Houma, La. Preparation for use in the treatment of asthma. No. 144,403; July 5; v. 288; p. 193.
- Goudey Gum Co., The, Boston, Mass. Chewing-gum. No. 148,056; Nov. 8.
- Gould & Eberdardt, Newark, N. J. Metal-working-machine tools. No. 138,962; Jan. 18; v. 282; p. 554.
- Goulds Manufacturing Company, The, Seneca Falls, N. Y. Power-driven water-supply pumps. No. 145,371; Aug. 2; v. 289; p. 179.
- Govett, Ernest, assignor to The Collene Laboratories, Inc., New York, N. Y. Medicinal preparation. No. 138,629; Jan. 4; v. 282; p. 187.
- Gowan-Lenning-Brown Co., Duluth, Minn. Canned, pickled, or dried fish. No. 146,989; Sept. 27; v. 290; p. 804.
- Gozdal, Joseph, Yardley, Wash. Medicine for disease of the eye. No. 143,027; May 24; v. 286; p. 846.
- Grab, O. F., & Co., New York, N. Y. Ladies' shirtwaists and blouses. No. 145,678; Aug. 16; v. 289; p. 593.
- Grady, John F., Chicago, Ill. Antiseptic cream for use after shaving. No. 145,679; Aug. 16; v. 289; p. 593.
- Grady, M. J., Company, Incorporated, The, New York, N. Y. Twine and cordage. No. 147,103; Oct. 4.
- Graf Bros., New York, N. Y. Hair-nets. No. 146,646; Sept. 13; v. 290; p. 427.
- Graf Bros. Inc., New York, N. Y. Hair-nets. No. 149,426; Dec. 13.
- Graff Furnace Co., The, New York, N. Y. Warm-air, coal, wood, gas, and oil furnaces and cooking-ranges. Nos. 144,997-8; July 19; v. 288; p. 627.
- Graff Furnace Co., The, New York, N. Y. Warm-air coal, wood, gas, and oil furnaces and cooking-ranges. No. 148,057; Nov. 8.
- Graff, George B., Company, Somerville, Mass. Pencil-sharpeners. No. 146,575; Sept. 13; v. 290; p. 421.
- Grafton & Knight Manufacturing Company, The, Worcester, Mass. Lace-leather and cut laces of leather. No. 147,613; Oct. 25.
- Graham, Benjamin F., Chicago, Ill. Collapsible doors. No. 143,355; May 31; v. 286; p. 1049.
- Graham Bros. Soap Co., Chicago, Ill. Toilet and laundry soap. No. 144,220; June 28; v. 287; p. 775.
- Graham Bros. Soap Company, Chicago, Ill. Shampoo, toilet powder and cream. No. 146,753; Sept. 20; v. 290; p. 633.
- Graham Bros. Soap Co., Chicago, Ill. Toilet soap. No. 149,778; Dec. 20.
- Graham Brothers, Evansville, Ill. Wheeled trucks adapted to be attached to motor-cars. No. 149,579; Dec. 13.
- Graham-Bumgarner Company, Parkersburg, W. Va. Shoes made wholly or in part of leather. Nos. 141,363-4; Apr. 19; v. 285; p. 566.
- Graham, Glenn A., Lapeer, Mich. Blank forms composing an efficiency-service system for dentists. No. 148,420; Nov. 15.
- Graham-Henshaw, Lancaster, Calif. Fresh deciduous fruit. No. 145,558; Aug. 9; v. 289; p. 407.
- Graham Paper Company, St. Louis, Mo. Fruit-wrapping tissue-paper. No. 148,058; Nov. 8.
- Graham, Walter C., Cohoes, N. Y. Soap flakes. No. 142,548; May 17; v. 286; p. 627.
- Grain Growers Grain Company, Minneapolis, Minn. Binder-twine. No. 147,612; Oct. 25.
- Grain Soaps Corporation, Dover, Del., and Jersey City, N. J. Soaps and soap powders. No. 145,103; July 26; v. 288; p. 813.
- Gramercy Chocolate Company, Inc., New York, N. Y. Candy. No. 141,563; Apr. 26; v. 285; p. 780.
- Gramm-Bernstein Motor Truck Company, The, Lima, Ohio. Automobiles and motor-trucks, chassis, &c. No. 139,803; Feb. 22; v. 283; p. 752.
- Gramm-Bernstein Motor Truck Co., The, Lima, Ohio. Automobiles. No. 141,129; Apr. 12; v. 285; p. 381.
- Gramm-Bernstein Motor Truck Company, The, Lima, Ohio. Automobiles, motor-trucks, chassis, &c. No. 149,392; Dec. 13.
- Grammes, L. F., & Sons, Allentown, Pa. Wrenches. No. 138,819; Jan. 11; v. 282; p. 376.
- Grand Lake Company, Inc., The, New York, N. Y. Fiber cord, reed, and stakes. Nos. 147,104-5; Oct. 4.
- Grand Union Tea Co., Brooklyn, N. Y. Root-beer extract, orange-phosphate, &c. No. 140,392; Mar. 15; v. 284; p. 581.
- Grand Union Tea Co., Brooklyn, N. Y. Machine-oil. No. 148,033; May 24; v. 286; p. 846.
- Grand Union Tea Co., Brooklyn, N. Y. Furniture-polish. No. 144,404; July 5; v. 288; p. 193.
- Grangers Lime Company, Boston, Mass. Ground limestone. No. 143,966; June 21; v. 287; p. 579.
- Graniteville Manufacturing Company, Graniteville, S. C., and New York, N. Y. Cotton piece goods including sheeting. No. 143,626; June 7; v. 287; p. 184.
- Grant Leather Corporation, Kingsport, Tenn. Leather belting. No. 143,356; May 31; v. 286; p. 1049.
- Grant, W. T., Company, New York, N. Y. Natural and artificial pearls. No. 148,656; Nov. 22.
- Grant, W. T., Co., New York, N. Y. Hair-nets. No. 149,081; Dec. 6.
- Grantier, Bert, Esperance, N. Y. Buckwheat-flour. No. 143,805; June 7; v. 287; p. 191.
- Grape Ola Products Corporation, New York, N. Y. Flavoring material for foods. No. 139,310; Feb. 1; v. 283; p. 169.
- Grape Ola Products Corporation, New York, N. Y. Grape-juice. No. 144,785; July 19; v. 288; p. 618.
- Graphite Mines Corporation, New York, N. Y. Coal. No. 149,082; Dec. 6.
- Graphoscope Company, The, Washington, D. C. Motion-picture machines and parts thereof. No. 145,372; Aug. 2; v. 289; p. 179.



- Graphoscope Company, The, Washington, D. C. Motion-picture-projecting machines and parts thereof. No. 147,488; Oct. 18.
- Grasselli Chemical Company, The, Cleveland, Ohio. Certain chemical substances. No. 147,316; Oct. 11.
- Grasselli Chemical Company, The, Cleveland, Ohio. Dyes and dyestuffs. No. 147,317; Oct. 11.
- Grasser Chemical Company, Inc., New Orleans, La. Mor-dants and dyes. No. 139,140; Jan. 25; v. 282; p. 734.
- Graves, Douglas N., Waltham, Mass. Sponge-cloth. No. 143,958; June 21; v. 287; p. 579.
- Grawcock, Oscar D., Churubusco, Ind. Hog-tonic. No. 145,680; Aug. 16; v. 289; p. 593.
- Gray & Davis Inc., Cambridge, Mass. Electrical appa-ratus. No. 144,526; July 5; v. 288; p. 199.
- Gray & Davis Inc., Cambridge, Mass. Electric engine-starting systems, ignition and generating systems, switches, and electric lamps. No. 148,842; Nov. 29.
- Gray, George E., Compton, Calif. Liquid fuel. No. 139,311; Feb. 1; v. 283; p. 169.
- Gray-Juergens Co., Cincinnati, Ohio. Non-alcoholic cordials. No. 144,786; July 19; v. 288; p. 618.
- Gray-Juergens Co., Cincinnati, Ohio. Syrups. No. 145,373; Aug. 2; v. 289; p. 179.
- Gray-Juergens Co., Cincinnati, Ohio. Non-alcoholic, malt-less, non-cereal beverage, and syrup for making same. No. 146,754; Sept. 20; v. 290; p. 634.
- Gray, Marion R., Los Angeles, Calif. Certain articles of clothing. No. 149,083; Dec. 6.
- Gray & Prior Machine Company, Hartford, Conn. Inter-nal-combustion engines. No. 146,470; Sept. 6; v. 290; p. 211.
- Graziadei, Leonard, Toronto, Ontario, Canada. Shoe-polishes. No. 141,365; Apr. 19; v. 285; p. 566.
- Greaney, Thomas E., Boston, Mass. Neckties and mufflers. No. 146,471; Sept. 6; v. 290; p. 211.
- Great American Knitting Mills, Inc., Bechtelsville and Bally, Pa. Hosiery. No. 142,549; May 17; v. 286; p. 627.
- Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Foods. Nos. 140,393-4; Mar. 15; v. 284; p. 581.
- Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Bread. No. 142,436; May 17; v. 286; p. 624.
- Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Foods. No. 146,237; Sept. 6; v. 290; p. 199.
- Great Atlantic and Pacific Tea Company, Jersey City, N. J. Tea. No. 147,218; Oct. 4.
- Great Atlantic and Pacific Tea Company, Jersey City, N. J. Sweeping compound. No. 149,580; Dec. 13.
- Great Falls Dairy Products Company, Great Falls, Mont. Dairy products. No. 145,956; Aug. 23; v. 289; p. 788.
- Great Grimby Coal, Salt and Tanning Company Limited, Great Grimby, England. Oilskin clothing. No. 138,630; Jan. 4; v. 282; p. 187.
- Great Lakes Forge Company, Chicago, Ill. Drop-forgings. No. 144,221; June 28; v. 287; p. 775.
- Great Northern Supply Company, The, Cleveland, Ohio. Certain medicinal salve. No. 148,657; Nov. 22.
- Great West Mill & Elevator Co., Amarillo, Tex. Wheat-flour. Nos. 148,421-2; Nov. 15.
- Great West Mill & Elevator Co., Amarillo, Tex. Wheat-flour. Nos. 149,393-5; Dec. 13.
- Great Western Milling Company, Los Angeles, Calif. Food for stock, particularly for rabbits. No. 143,627; June 7; v. 287; p. 184.
- Great Western Milling Company, Los Angeles, Calif. Flours, meal, health-bran, feeds. No. 145,266; July 29; v. 288; p. 822.
- Great Western Milling Company, Los Angeles, Calif. Wheat, &c., flour, cornmeal, health-bran. No. 145,957; Aug. 23; v. 289; p. 788.
- Great Western Packing Co., San Francisco, Calif. Canned fish. No. 141,564; Apr. 26; v. 285; p. 780.
- Great Western Smelting & Refining Company, Chicago, Ill. Solder. No. 149,896; Dec. 13.
- Grecian Importing Trading Co., Inc., New York, N. Y. Olive-oil. No. 141,565; Apr. 26; v. 285; p. 780.
- Green County Canneries, Inc., Milwaukee, Wis. Canned vegetables. No. 139,312; Feb. 1; v. 283; p. 169.
- Green, Edward, Brooklyn, N. Y. Soap dyes. No. 141,366; Apr. 19; v. 285; p. 566.
- Green, Frances H., New York, N. Y. Toilet preparations. No. 146,238; Sept. 6; v. 290; p. 199.
- Green Fuel Economizer Company, Beacon, N. Y. Fans and blowers. No. 149,312; Dec. 6.
- Green and Green Company, The, Dayton, Ohio. Crackers. No. 146,928; Sept. 20; v. 290; p. 641.
- Green, Dr. L. O., Chicago, Ill. Flexible hypodermic needles. No. 146,472; Sept. 6; v. 290; p. 211.
- Green, Mary E., Newton, Mass. Toilet preparations consist-ing of skin and scalp lotions, creams, powders, &c. No. 139,804; Feb. 22; v. 283; p. 752.
- Green Mountain Packing Company, Portland, Me. Canned vegetables and fruits. No. 141,367; Apr. 19; v. 285; p. 567.
- Green Mountain Violin Corporation, Stowe, Vt. Violins. No. 146,239; Sept. 6; v. 290; p. 199.
- Green, Dr. O. W., & Dr. L. O. Green, Chicago, Ill. Local anesthetic for use in painless extraction of teeth and in general surgery. No. 149,932; Dec. 27.
- Green, William T., Summit, N. J. Dentifrice. No. 141,949; May 3; v. 286; p. 185.
- Green, William T., Summit, N. J. Soap. No. 148,059; Nov. 8.
- Greene, Julia E., Philadelphia, Pa. Rag dolls. No. 148,060; Nov. 8.
- Greene, William E., New York, N. Y. Paints. No. 146,240; Sept. 6; v. 290; p. 199.
- Greenebaum Bros. & Co., Philadelphia, Pa. Boys' blouses made of cotton, silk, flannel, and the like. No. 143,857; May 31; v. 286; p. 1049.
- Greenbaum, Ephraim, New York, N. Y. Salve for drawing and healing boils, felonies, &c. No. 141,950; May 3; v. 286; p. 185.
- Greenbaum, Harry L., New York, N. Y. Paint enamel. No. 142,271; May 10; v. 286; p. 404.
- Greenblatt & Gold, New York, N. Y. Boys' clothing. No. 143,967; June 21; v. 287; p. 579.
- Greenfield, Ella M., Erie, Pa. Liquid medicinal prepara-tion for use in inhalers. No. 147,106; Oct. 4.
- Greenfield Tap and Die Corporation, Greenfield, Mass. Certain gages and micrometers. No. 147,318; Oct. 11.
- Greenfield Tap and Die Corporation, Greenfield, Mass. Certain tools and parts of machinery. Nos. 147,319-22; Oct. 11.
- Greenfield Tap and Die Corporation, Greenfield, Mass. Certain tools and parts of machinery. No. 149,933; Dec. 27.
- Greenfield Tap and Die Corporation, Greenfield, Mass. Thread-cutting taps. No. 149,084; Dec. 6.
- Greenfield's, E., Sons, New York and Brooklyn, N. Y. Chocolates and candies. No. 139,936; Feb. 22; v. 283; p. 758.
- Greenfield's, E., Sons, New York and Brooklyn, N. Y. Candies. No. 144,658; July 12; v. 288; p. 427.
- Greenfield's, E., Sons, New York and Brooklyn, N. Y. Chocolate candy. No. 148,061; Nov. 8.
- Greenhut, Herman J., Pensacola, Fla. Candies and canned soups. No. 147,489; Oct. 18.
- Greenpoint Metallic Bed Company, Brooklyn, N. Y. Beds and cribs. No. 147,323; Oct. 11.
- Greenpoint-Southern Company, Inc., Long Island City, N. Y. Mattresses. No. 140,269; Mar. 8; v. 284; p. 371.
- Greenwich Cheese Co., New York, N. Y. Cheese. No. 142,550; May 17; v. 286; p. 627.
- Greenwich Cheese Company, New York, N. Y. Cheese. No. 139,313; Feb. 1; v. 283; p. 169.
- Greenwood Beverage Co., St. Louis, Mo. Non-intoxicating, maltless, non-cereal beverage. No. 140,133; Mar. 8; v. 284; p. 365.
- Gregg, J. D., Liberty, N. C. Medicine for treatment of the liver. No. 148,658; Nov. 22.
- Gregory-Craun Motor Co., Kansas City, Mo. Automobiles and motor-trucks. No. 144,405; July 5; v. 288; p. 193.
- Gregory, Mayer & Thom Co., Detroit, Mich. Certain sta-tionery. No. 148,901; Nov. 29.
- Greig & Glover, Inc., Chicago, Ill. Confectionery—namely, chocolate-almond bars. No. 143,628; June 7; v. 287; p. 184.
- Greilich, William, and Sons, Inc., Brooklyn, N. Y. Gaiters of fabric construction. No. 138,905; Jan. 11; v. 282; p. 380.
- Greilich, William, & Sons, Inc., Brooklyn, N. Y. Bathing-shoes. No. 143,028; May 24; v. 286; p. 846.
- Greilich, William, & Sons, Inc., Brooklyn, N. Y. Leather, canvas, and cloth shoes and slippers. No. 148,423; Nov. 15.
- Greiner, Samuel, New York, N. Y. Certain perfumery products. No. 147,107; Oct. 4.
- Grennan Cake Corporation, Chicago, Ill.; Cleveland, Ohio; Detroit, Mich., and St. Paul and Minneapolis, Minn. Cakes. No. 141,130; Apr. 12; v. 285; p. 381.
- Grennan Cake Corporation, Cleveland Ohio; Detroit, Mich.; St. Paul and Minneapolis, Minn., and Chicago, Ill. Cakes, cookies, and fried cakes. No. 141,566; Apr. 26; v. 285; p. 780.
- Grenoville, Marie M. R. Vve, Asnières, France. Perfumes, toilet waters, face-powder, &c. Nos. 148,843-5; Nov. 29.
- Grenoville, Marie M. R. Vve, Asnières, France. Shaving-soaps. No. 148,846; Nov. 29.
- Grenoville, Marie M. R. Vve, Asnières, France. Perfumes, toilet waters, face-powder, &c. No. 148,847; Nov. 29.
- Grenoville, Marie M. R. Vve, Asnières, France. Eau-de-cologne. No. 148,848; Nov. 29.
- Grenoville, Marie M. R. Vve, Asnières, France. Perfumes, toilet waters, face-powder, &c. No. 148,849; Nov. 29.
- Grenoville, Marie M. R. Vve, Asnières, France. Brilliantine, face powder and lotion. No. 149,085; Dec. 6.
- Grenoville, Marie M. R. Vve, Asnières, France. Perfumes, toilet waters, face-powder, &c. No. 149,086; Dec. 6.
- Grey, C. M., Mfg. Co., East Orange, N. J. Automobile radiator caps. No. 149,087; Dec. 6.
- Greyhound Motors Corporation, New York, N. Y. Auto-mobile bodies and frames. No. 145,104; July 26; v. 288; p. 813.
- Grid-Iron-Grip Company, Rock Island, Ill. Traction-shoes for wheels. No. 140,601; Mar. 22; v. 284; p. 744.
- Griesedieck Brothers Brewery Company, St. Louis, Mo. Beverage made of malt and cereals. No. 139,543; Feb. 8; v. 283; p. 351.
- Griffin Broom Company, The, Chanute, Kans. Brooms. No. 148,332; Nov. 8.
- Griffin, Carman J., St. Louis, Mo. Concentrated maltless syrup. No. 146,102; Aug. 30; v. 289; p. 1014.



*Alphabetical list of registrants of trade-marks—Continued.*

- Griffin, Harry M., Peekskill, N. Y. Headache and neuralgia remedy. No. 149,934; Dec. 27.
- Griffin, James W., Waterloo, Iowa. Certain medicinal preparation. No. 148,659; Nov. 22.
- Griffin Mfg. Co., The, Boston, Mass. Air-valve for automobile-tires, pneumatic cushions, &c. No. 143,959; June 21; v. 287; p. 579.
- Griffin Mfg. Co., The, Boston, Mass. Spark-plugs. No. 144,787; July 19; v. 288; p. 618.
- Griffin, W. H., Company, Manchester, N. H. Men's, boys', and youths' leather shoes. No. 144,319; June 28; v. 287; p. 780.
- Griffith Alverson Co., Mason City, Iowa. Medicinal preparation. No. 141,064; Apr. 5; v. 285; p. 187.
- Griffith, J. S., Chattanooga, Tenn. Poultry compound for cholera, roup, and sore head. No. 145,958; Aug. 23; v. 289; p. 788.
- Griffith, John H., Marietta, Ga. Liniment hair-tonic, and pile-ointment. No. 144,406; July 5; v. 288; p. 193.
- Griffith, Margaret J., Wallasey, England. Antiseptics. No. 146,990; Sept. 27; v. 290; p. 804.
- Griggs Bros. Co., The, Toledo, Ohio. Honey. No. 147,852; Nov. 1.
- Grimes Canning & Preserving Company, Grimes, Iowa. Canned pork and beans. No. 143,029; May 24; v. 286; p. 846.
- Grip Bow Tie Co., Omaha, Nebr. Neckties. No. 146,473; Sept. 6; v. 290; p. 211.
- Griswold Mfg. Co., Erie, Pa. Roasting-pots. No. 145,267; July 26; v. 288; p. 822.
- Griswold Seed & Nursery Co., Lincoln, Nebr. Flower, vegetable, and field seeds. No. 141,567; Apr. 26; v. 285; p. 780.
- Grocers Baking Company, Incorporated, Louisville, Ky. Loaf-cake. No. 149,935; Dec. 27.
- Grocers Biscuit Company, Louisville, Ky. Biscuits and crackers. No. 142,272; May 10; v. 286; p. 404.
- Groff Paper Company, Minneapolis, Minn. Paper napkins. No. 145,890; Aug. 16; v. 289; p. 602.
- Grosser, Clarence W., Washington, D. C. Articles of clothing. No. 143,030; May 24; v. 286; p. 846.
- Gross, Angus R., Baltimore, Md. Electrical lights for automobiles. No. 141,368; Apr. 19; v. 285; p. 567.
- Gross, August, Chicago, Ill. Ointment for treatment of tired and sore feet. No. 141,951; May 3; v. 286; p. 185.
- Gross, George V., & Company, New York, N. Y. Perfume-oil compounded and blended. No. 147,108; Oct. 4.
- Gross, George V., & Company, New York, N. Y., assignor to W. A. Sherry, Los Angeles, Calif. Coloring materials for foods. No. 149,088; Dec. 6.
- Gross, Joseph S., Los Angeles, Calif. Honey. No. 142,551; May 17; v. 286; p. 627.
- Gross & Weiss, Inc., New York, N. Y. Waists and blouses. No. 145,559; Aug. 9; v. 289; p. 407.
- Grossman, Elenore, New York, N. Y. Ladies' wearing-apparel. No. 141,754; Apr. 26; v. 285; p. 788.
- Grossman, Harry, New York, N. Y. Belt-buckles. No. 143,960; June 21; v. 287; p. 579.
- Grossman, I., & Son, New York, N. Y. Ladies', misses', and juniors' suits and outer coats, dresses, &c. No. 144,788; July 19; v. 288; p. 618.
- Groves, Dr. M. F., Son & Co., Philadelphia, Pa. Medicinal treatment for drunkenness. No. 144,407; July 5; v. 288; p. 193.
- Groves, Dr. M. F., Son & Co., Philadelphia, Pa. Medicinal treatment for infantile troubles—viz., teething and colic. No. 144,408; July 5; v. 288; p. 193.
- Groves, Dr. M. F., Son & Co., Philadelphia, Pa. Medicinal preparation for infantile troubles. No. 146,991; Sept. 27; v. 290; p. 804.
- Groveton Paper Company, Inc., Groveton, N. H. Paper for writing, typewriting, printing, and lithographing. No. 146,241; Sept. 6; v. 290; p. 199.
- Grulich, D. R., Inc., New York, N. Y. Broad silks in the piece. No. 139,989; Mar. 1; v. 284; p. 173.
- Grulich, D. R., Inc., New York, N. Y. Silk goods in the piece. No. 139,990; Mar. 1; v. 284; p. 173.
- Grundy, Alfred S. W., San Francisco, Calif. Clothing. No. 141,131; Apr. 12; v. 285; p. 381.
- Grushlaw & Sichel, Philadelphia, Pa. Knitted jackets. No. 143,031; May 24; v. 286; p. 846.
- Gsell, Roland A., New York, N. Y. Watches and watch-movements. No. 144,409; July 5; v. 288; p. 193.
- Gsell, Roland A., New York, N. Y. Watchcases and parts thereof, watches, watch-movements. No. 146,242; Sept. 6; v. 290; p. 199.
- Guarantee Specialty Manufacturing Company, Cleveland, Ohio. Snap-fasteners. No. 140,602; Mar. 22; v. 284; p. 745.
- Guardsman Publishing and Printing Company, The, Austin, Tex. Monthly magazine. No. 143,968; June 21; v. 287; p. 579.
- Gudebrod Bros. Silk Co., New York, N. Y., and Philadelphia, Pa. Spool-silk. No. 146,647; Sept. 13; v. 290; p. 427.
- Gudeman, Leo, New York, N. Y. Metal dishes for disseminating vapors for purifying the air in rooms. No. 144,789; July 19; v. 288; p. 618.
- Guerin, Anna B., New York, N. Y. Boutonnière, badge, insignia, &c. No. 148,424; Nov. 15.
- Guest, George A., New York, N. Y. Silk fabric and leather gloves for men, women, and children. No. 147,775; Nov. 1.
- Guest Neckwear Company, Inc., Rochester, N. Y. Neckties. No. 143,629; June 7; v. 287; p. 184.
- Guggenheim & Company, San Francisco, Calif. Dried fruits. No. 141,132; Apr. 12; v. 285; p. 381.
- Guggenheim, Eli, Hamilton, Ohio. Certain articles of household furniture. No. 147,853; Nov. 1.
- Guggenheim, M., Inc., New York, N. Y. Imitation pearls. No. 144,790; July 19; v. 288; p. 618.
- Guideometer Company, The, Spokane, Wash. Combination route guides and mileage-registers to be used on automobiles and kindred vehicles. No. 140,817; Mar. 29; v. 284; p. 944.
- Guillaume Limited, Redditch and Alcester, England. Needles for hand-sewing and toilet-pins. No. 138,631; Jan. 4; v. 282; p. 187.
- Guiterman, Rosenfeld & Company, New York, N. Y. Mechanically-operated automobile-horns. No. 138,632; Jan. 4; v. 282; p. 187.
- Gulbrandsen-Dickinson Company, Chicago, Ill. Player-pianos. No. 140,038; Mar. 1; v. 284; p. 176.
- Gulbrandsen-Dickinson Company, Chicago, Ill. Player-pianos. Nos. 144,576-7; July 12; v. 288; p. 424.
- Gulick and Snyder Rubber Co., Columbus, Ohio. Rubber heels. No. 146,474; Sept. 6; v. 290; p. 212.
- Gunn & Barrick Tobacco Co., Springfield, Tenn. Smoking-tobacco. No. 142,552; May 17; v. 286; p. 627.
- Gunn Furniture Company, The, Grand Rapids, Mich. Desks. No. 149,936; Dec. 27.
- Gurley Candy Company, Minneapolis, Minn. Candy. Nos. 138,633-4; Jan. 4; v. 282; p. 187.
- Gurley Candy Company, Minneapolis, Minn. Candy. No. 142,553; May 17; v. 286; p. 627.
- Gust, & H. Probst A. G., Langnau, Switzerland. Cheese. No. 149,397; Dec. 13.
- Guthrie & Company, Limited, Singapore, Straits Settlements, and London, England. Articles of clothing. No. 145,375; Aug. 2; v. 289; p. 179.
- Guthrie, John R., Richmond, Va. Fertilizers. No. 142,547; May 17; v. 286; p. 627.
- Gutman, Eugene, & Co., New York, N. Y. Cotton piece goods. No. 140,134; Mar. 8; v. 284; p. 365.
- Gutmann and Company, Chicago, Ill. Oil preparation for treating leather. No. 141,369; Apr. 19; v. 285; p. 567.
- Gutmann, Henri, Silks Corporation, New York, N. Y. Silk goods in the piece. No. 147,778; Nov. 1.
- Guttradt, Joseph, Company, San Francisco, Calif. Soap. No. 149,937; Dec. 27.
- Gutta Percha & Rubber Manufacturing Company, The, New York, N. Y. Belting of rubber and fabric. No. 138,906; Jan. 11; v. 282; p. 381.
- Gutta Percha & Rubber Manufacturing Company, The, New York, N. Y. Belting composed of rubber and fabric. No. 140,191; Mar. 8; v. 284; p. 366.
- Gutta Percha & Rubber Manufacturing Company, The, New York, N. Y. Rubber-lined fabric hose. No. 140,818; Mar. 29; v. 284; p. 944.
- Gutter, B., & Sons, New York, N. Y. Watches, watchcases, and watch-movements. No. 144,791; July 19; v. 288; p. 618.
- Gutter, B., & Sons, New York, N. Y. Watches, watchcases and movements. No. 146,756; Sept. 20; v. 290; p. 634.
- Gutter, B., & Sons, New York, N. Y. Watches, watchcases, and watch-movements. No. 147,614; Oct. 25.
- Gutter, Sigisbie, New York, N. Y. Pearls. No. 144,792; July 19; v. 288; p. 618.
- Gutter, Sigisbie, New York, N. Y. White-sapphire finger-rings. No. 147,615; Oct. 25.
- Guttmann, Henry, New York, N. Y. Collar and cuff buttons made of or plated with precious metal. No. 139,141; Jan. 25; v. 282; p. 734.
- Guy Motors, Ltd., Wolverhampton and Fallings Park, England. Automobiles, motor-boats, aeroplanes, motorcycles. No. 149,089; Dec. 6.
- Guyer & Calkins Co., Freeport, Ill. Canned fruits, vegetables, and fish, coffee, and spices. No. 141,568; Apr. 26; v. 285; p. 780.
- Guyer & Calkins Co., Freeport, Ill. Foods. No. 143,630; June 7; v. 287; p. 184.
- Guzzardo, Albert C., Kansas City, Mo. Preparation for relief of venereal disease. No. 149,090; Dec. 6.
- Gypos Corporation, Indianapolis, Ind. Building materials. No. 141,952; May 3; v. 286; p. 185.
- H & W Company, Inc., The, Newark, N. J. Articles of clothing. No. 142,371; May 10; v. 286; p. 408.
- H & W Company, Inc., Newark, N. J. Brassières and bandeaux. No. 145,507; Aug. 2; v. 289; p. 184.
- Haas, Allen L., Racine, Wis. Certain liniment and medicinal preparation. No. 147,109; Oct. 4.
- Haas, B., & Sons, Cincinnati, Ohio. Men's and young men's trousers. No. 142,205; May 3; v. 286; p. 194.
- Haas Brothers Fabrics Corporation, New York, N. Y. Silk, linen, woolen, and cotton piece goods and combinations thereof. No. 139,315; Feb. 1; v. 283; p. 169.
- Haas Brothers Fabrics Corporation, New York, N. Y. Silk, cotton, &c., piece goods. Nos. 139,806-7; Feb. 22; v. 283; p. 752.



- Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods composed of silk. No. 139,808; Feb. 22; v. 283; p. 758.
- Haas Brothers Fabrics Corporation, New York, N. Y. Silk, satin, woolen, and cotton voile piece goods. No. 139,937; Feb. 22; v. 283; p. 758.
- Haas Brothers Fabric Corporation, New York, N. Y. Silk, linen, woolen, &c., piece goods. Nos. 139,991-2; Mar. 1; v. 284; pp. 173-4.
- Haas Brothers Fabrics Corporation, New York, N. Y. Silk, linen, woolen, &c., piece goods. No. 140,270; Mar. 8; v. 284; p. 371.
- Haas Brothers Fabrics Corporation, New York, N. Y. Silk, artificial silk, woolen, cotton, and linen fabrics. No. 142,554; May 17; v. 286; p. 627.
- Haas Brothers Fabrics Corporation, New York, N. Y. Silk, linen, &c., piece goods, and combinations thereof. No. 142,555; May 17; v. 286; p. 627.
- Haas Brothers Fabrics Corporation, New York, N. Y. Silk, woolen, cotton, and linen piece goods and combinations thereof. No. 143,034; May 24; v. 286; p. 847.
- Haas Brothers Fabrics Corporation, New York, N. Y. Silk, linen, woolen, and cotton piece goods and combinations thereof. No. 143,631; June 7; v. 287; p. 184.
- Haas Brothers Fabrics Corporation, New York, N. Y. Silk, linen, and cotton and cotton piece goods and combinations thereof. No. 143,969; June 21; v. 287; p. 580.
- Haas Brothers Fabrics Corporation, New York, N. Y. Printed books issued semi-annually. No. 144,222; June 28; v. 287; p. 775.
- Haas Brothers Fabrics Corporation, New York, N. Y. Silk, woolen, linen, &c., piece goods. No. 145,105; July 26; v. 288; p. 813.
- Haas Brothers Fabrics Corporation, New York, N. Y. Woolen, cotton, and linen fabrics in the piece, and combinations thereof. No. 146,109; Aug. 30; v. 289; p. 1014.
- Haas Brothers Fabrics Corporation, New York, N. Y. Silk, woolen, linen, and cotton piece goods and combinations thereof. No. 146,243; Sept. 6; v. 290; p. 199.
- Haas Brothers Fabrics Corporation, New York, N. Y. Silk, woolen, linen, and cotton piece goods. Nos. 146,757-8; Sept. 20; v. 290; p. 634.
- Haas, Geo., & Sons, San Francisco, Calif. Candies. Nos. 142,871-3; May 17; v. 286; p. 639.
- Haas, Dr. Joseph, New York, N. Y. Face-lotions and hair-tonics. No. 146,759; Sept. 30; v. 290; p. 634.
- Haas & Kirkland, Winter Haven, Fla. Trees. No. 148,062; Nov. 8.
- Habicht and Company, New York, N. Y. Shelled or unshelled nuts in their natural state and dried fruits. No. 141,370; Apr. 19; v. 285; p. 567.
- Habicht and Company, New York, N. Y. Shelled and unshelled nuts. No. 141,569; Apr. 26; v. 285; p. 780.
- Habirshaw Electric Cable Company, Inc., New York, N. Y. Electric cable. No. 139,717; Feb. 15; v. 283; p. 541.
- Habirshaw Electric Cable Company, Inc., New York, N. Y. Electric cable and insulated wire. No. 149,313; Dec. 6.
- Hadfield's Limited, Sheffield, England. Steel castings and forgings of standard and special shape. No. 139,544; Feb. 8; v. 283; p. 351.
- Hadfields Limited, Sheffield, England. Certain unwrought and partly-wrought steel products. No. 149,398; Dec. 13.
- Hadjief, Koj G., Warren, Ohio. Salve for burns, wounds, sunburn, &c. No. 139,993; Mar. 1; v. 284; p. 174.
- Hadley Bros.-Uhl Company, St. Louis, Mo. Rubber patches for automobile-tube punctures, &c. No. 147,616; Oct. 25.
- Hadley Bros.-Uhl Company, St. Louis, Mo. Rubber cement. No. 148,850; Nov. 29.
- Hadley, William T., Ontario, Calif. Poultry medicine. No. 148,425; Nov. 15.
- Hagedorn, Edward G., New York, N. Y. Silks, artificial silk, and certain mixtures in the piece. No. 147,617; Oct. 25.
- Hagedorn, Edward G., New York, N. Y. Neckties. No. 149,091; Dec. 6.
- Haggerty Refining Company, New York, N. Y. Lubricating oils and greases. No. 139,142; Jan. 25; v. 282; p. 734.
- Haggvist, Frederick E., Boston, Mass. Photographs. No. 148,063; Nov. 8.
- Hahn, John H., Philadelphia, Pa. Medicinal preparation for asthma, whooping-cough, bronchitis, &c. No. 140,135; Mar. 8; v. 284; p. 365.
- Haile, Dr. T. J., & Co., Fitzgerald, Ga. Medicinal preparation. No. 141,953; May 3; v. 286; p. 185.
- Hailey, William E., Huntingdon, Tenn. Medicinal preparations. No. 140,136; Mar. 8; v. 284; p. 365.
- Haines, Ernest L., Lynn, Mass. Ice-cream, candy, chocolates, and bonbons. No. 140,603; Mar. 22; v. 284; p. 745.
- Haines, John F., Warren, Ohio. Lumber. No. 139,077; Jan. 18; v. 282; p. 558.
- Haines Manufacturing Corporation, Rochester, N. Y. Automobile accessories—namely, metal frames for holding glass in curtains. No. 148,064; Nov. 8.
- Haines & Parsons, Camden, N. J. Board game. No. 144,223; June 28; v. 287; p. 775.
- Hair Net Importing Co., Inc., New York, N. Y. Combination hair-net and veil. No. 139,454; Feb. 1; v. 283; p. 175.
- Hair Net Importing Company, Inc., New York, N. Y. Hair-nets. No. 149,092; Dec. 6.
- Halcumb & Davidson, Inc., New York, N. Y. Hollow and solid steel bars for drills. No. 145,106; July 26; v. 288; p. 813.
- Halcumb Steel Company, Syracuse, N. Y. Ferrous-alloy steels. Nos. 148,851-4; Nov. 29.
- Half Moon Fruit & Produce Co., San Francisco, Calif. Cantaloups. No. 141,570; Apr. 26; v. 285; p. 780.
- Half, S., & Co., Los Angeles, Calif. Men's, women's, children's, and infants' hosiery. No. 149,093; Dec. 6.
- Hall Auto Company, Collinsville, Ala. Sawmills. No. 142,556; May 17; v. 286; p. 627.
- Hall, Frank L., Co., Buffalo, N. Y. Wheat bread and rolls, cakes, and pastry. No. 149,094; Dec. 6.
- Hall, H. S., Inc., Jersey City, N. J. Laces, veils, nets, tricot cloth, and Milanese cloth in the piece. No. 148,426; Nov. 15.
- Hall Hardware Company, Minneapolis, Minn. Machines and tools. No. 143,970; June 21; v. 287; p. 580.
- Hall, Hartwell & Co., Troy, N. Y. Dress, negligée, and work shirts and collars. Nos. 141,371-2; Apr. 19; v. 285; p. 567.
- Hall, Hartwell & Co., Troy, N. Y. Articles of clothing. Nos. 144,410-11; July 5; v. 288; p. 193.
- Hall, Hartwell & Co., Troy, N. Y. Men's and boys' union-suits, undershirts, and underdrawers. No. 145,682; Aug. 16; v. 289; p. 593.
- Hall, Hartwell & Co., Troy, N. Y. Men's and boys' union-suits, undershirts, and underdrawers. No. 148,065; Nov. 8.
- Hall, James L., Buffalo, N. Y. Hair-tonic. No. 140,819; Mar. 29; v. 284; p. 944.
- Hall, John, Springfield, Ill. Mineral waters. No. 149,399; Dec. 13.
- Hall Lithographing Co., The, Topeka, Kans. Stationery. No. 144,999; July 19; v. 288; p. 627.
- Hall, Nathaniel C., Old Lyme, Conn. Candy. No. 141,571; Apr. 26; v. 285; p. 780.
- Hall & Ruckel, New York, N. Y. Medicinal preparation. No. 146,992; Sept. 27; v. 290; p. 804.
- Hall & Ruckel, New York, N. Y. Preparation for use in the treatment of stomach troubles. No. 146,993; Sept. 27; v. 290; p. 804.
- Hall & Ruckel, New York, N. Y. Ointment. No. 147,110; Oct. 4.
- Hall-Thompson Company, The, Hartford, Conn. Polishes for automobile-bodies, pianos, &c. No. 139,809; Feb. 22; v. 283; p. 753.
- Hall-Thompson Company, The, Hartford, Conn. Cream polish and cleaner for automobile enameled fenders, body, &c. No. 140,271; Mar. 8; v. 284; p. 371.
- Hall-Thompson Company, The, Hartford, Conn. Valve-grinding compounds. No. 140,820; Mar. 29; v. 284; p. 944.
- Hall-Thompson Company, The, Hartford, Conn. Engine-starting fluids. No. 149,095; Dec. 6.
- Hall, Walter T., & Co., Ottumwa, Iowa. Candies. No. 146,994; Sept. 27; v. 290; p. 804.
- Hall, Walter T., & Company, Ottumwa, Iowa. Candy. No. 147,618; Oct. 25.
- Hall, William, & Co. Limited, Studley, England. Needles, toilet-pins, bodkins, knitting-pins, and crochet-hooks. No. 148,427; Nov. 15.
- Halligan Candy Company, Davenport, Iowa. Chocolate candy. No. 148,066; Nov. 8.
- Halper, Victor, New York, N. Y. Medicinal preparation to be taken internally for the treatment of gonorrhea. No. 149,938; Dec. 27.
- Halstead Specialties Company, San Francisco, Calif. Rust-solvent and lubricant. No. 144,793; July 19; v. 288; p. 618.
- Halstead Specialties Co., San Francisco, Calif. Lubricant and squeak cure with incidental properties as a rust preventive. No. 149,781; Dec. 20.
- Haltenhof, Berthold L., New York, N. Y. Electric control cabinets, switch-boxes, panel-boards, and cut-out boxes. No. 142,557; May 17; v. 286; p. 627.
- Hamacher, Edna W., Hannibal, Mo. Drying-machines for drying grains, seeds, ores, crushed rock, &c. No. 147,619; Oct. 25.
- Hamblet, Marcia C., Salem, Mass. Ink-eradicator. No. 144,412; July 5; v. 288; p. 193.
- Hamilton-Brown Shoe Company, St. Louis, Mo. Men's and boys' leather shoes. No. 147,324; Oct. 11.
- Hamilton, Robert D., Savannah, Ga. Non-alcoholic fruit drink and syrup for making same. No. 142,874; May 17; v. 286; p. 639.
- Hammel, Riglander & Co., New York, N. Y. Gravers, chisels, gougers, burnishers, tracers, and files. No. 143,971; June 21; v. 287; p. 580.
- Hammer & Co., San Francisco, Calif. Canned sardines, salad and olive oils, canned and dried fruits. No. 145,959; Aug. 23; v. 289; p. 788.
- Hammer & Co., San Francisco, Calif. Gasolene and kerosene. No. 146,760; Sept. 20; v. 290; p. 634.
- Hammond, Frank W. (See Stoll, Irene H., assignor.)
- Hammond, Standish & Co., Detroit, Mich. Oleomargarin. No. 143,750; June 7; v. 287; p. 187.
- Hammond Standish & Co., Detroit, Mich. Oleomargarin. No. 146,475; Sept. 6; v. 290; p. 212.



*Alphabetical list of registrants of trade-marks—Continued.*

- Hammond Standish & Co., Detroit, Mich. Breakfast-sausages. No. 146,761; Sept. 20; v. 290; p. 634.
- Hampden Glazed Paper & Card Co., Holyoke, Mass. Cover-paper. No. 149,677; Dec. 20.
- Hampden Paint & Chemical Co., Springfield, Mass. Dry, paste, and ready-mixed paints, colors in oil, &c. No. 140,821; Mar. 29; v. 284; p. 944.
- Hampden Watch Company, The, Canton, Ohio. Watches and watch-movements. No. 144,120; June 21; v. 287; p. 587.
- Hampshire Paper Company, South Hadley Falls, Mass. Paper for general printing and writing purposes and mailing-envelops. No. 145,107; July 26; v. 288; p. 813.
- Hampton Cracker Co., The, Madison, Ind. Crackers. No. 143,632; June 7; v. 287; p. 184.
- Hand, J. A., Son Co., Moosic, Pa. Preparation for killing flies and lice. No. 148,855; Nov. 29.
- Hand Knit Hosiery Co., Sheboygan, Wis. Worsted khaki hose and sweaters for boys. No. 145,683; Aug. 16; v. 289; p. 594.
- Hand, Peter, Company, Chicago, Ill. Beverages. No. 141,055; Apr. 5; v. 285; p. 187.
- Handel Co., The, Meriden, Conn. Portable, stand, and stationary electric lamps and standards, &c. No. 143,359; May 31; v. 286; p. 1049.
- Handley, G. H., Ogdensburg, N. Y. Bread. No. 148,007; Nov. 8.
- Hanger, J. E., Inc., Washington, D. C. Artificial limbs. No. 139,545; Feb. 8; v. 283; p. 351.
- Hannibal Milling Co., Hannibal, Mo. Wheat-flour. No. 145,376; Aug. 2; v. 289; p. 179.
- Hanns, William J., Cincinnati, Ohio. Skin-lotion. No. 140,137; Mar. 8; v. 284; p. 365.
- Hanover Mfg. Co., The, Baltimore, Md. Children's, misses', and juniors' dresses, coats, rompers, bloomers, &c. No. 149,096; Dec. 6.
- Hanovia Chemical and Manufacturing Company, Newark, N. J. Camera-lenses. No. 145,377; Aug. 2; v. 289; p. 179.
- Hansen, A. L., Mfg. Co., Chicago, Ill. Acetylene-lamps. No. 145,684; Aug. 16; v. 289; p. 594.
- Hansen, Oswald H., Port Washington, Wis. Canning machinery. No. 146,476; Sept. 6; v. 290; p. 212.
- Hansen Packing Company, Butte, Mont. Hams, bacon, rolled shoulders, and lard. No. 139,316; Feb. 1; v. 283; p. 169.
- Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Butter-color. No. 146,762; Sept. 20; v. 290; p. 634.
- Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Food-colors. No. 146,763; Sept. 20; v. 290; p. 634.
- Hanson, Stacy L., *et al.*, executors. (See Williams, Frank B.)
- Hanson, E. J. Frederick, Camden, N. J. Bread. No. 146,230; Sept. 6; v. 290; p. 199.
- Hanson & Van Winkle Company, The, Newark, N. J. Preparation for cleaning metals. No. 149,097; Dec. 6.
- Haralson, William L., Fort Payne, Ala. Medicinal preparation for indigestion. No. 143,972; June 21; v. 287; p. 580.
- Haralson, William L., Fort Payne, Ala. Medicinal preparation for diarrhea, cholera morbus, &c. No. 143,973; June 21; v. 287; p. 580.
- Haralson, William D., Fort Payne, Ala. Medicinal preparation for the treatment of the liver and kidneys. No. 144,413; July 5; v. 288; p. 193.
- Hardie Bros. Co. Inc., Pittsburgh, Pa. Hard candles. No. 141,134; Apr. 12; v. 285; p. 381.
- Harding Cream Company, Omaha, Nebr. Butter. No. 140,039; Mar. 1; v. 284; p. 176.
- Harding, Robert, New York, N. Y. Dynamo and electric-motor brushes and brush-holders therefor. No. 148,581; Nov. 15.
- Hardright Company, The, Belleville, N. J. Lather-brushes. Nos. 149,400-3; Dec. 13.
- Hardwick & Magee Company, Philadelphia, Pa. Wilton carpets and rugs. Nos. 146,477-8; Sept. 6; v. 290; p. 212.
- Hardwick & Magee Company, Philadelphia, Pa. Wilton carpets and rugs. No. 148,333; Nov. 8.
- Hardy, F. A., & Company, Chicago, Ill. Ophthalmic lenses. No. 141,133; Apr. 12; v. 285; p. 381.
- Harem Candy Co., New York, N. Y. Candy in boxes. No. 149,678; Dec. 20.
- Hares Motors Inc., New York, N. Y. Gasolene-motors. No. 147,490; Oct. 18.
- Haritopol, John, Tampa, Fla. Grapefruit paste. No. 146,995; Sept. 27; v. 290; p. 804.
- Harlan, O. A., & Co., San Jose, Calif. Dried and canned fruits. No. 148,068; Nov. 8.
- Harley-Davidson Motor Co., Milwaukee, Wis. Monthly magazines. No. 140,395; Mar. 15; v. 284; p. 581.
- Harley-Davidson Motor Co., Milwaukee, Wis. Electric generators. No. 141,291; Apr. 12; v. 285; p. 388.
- Harley-Davidson Motor Co., Milwaukee, Wis. Lubricating-oil, chain and non-fluid lubricant. No. 141,465; Apr. 19; v. 285; p. 570.
- Harley-Davidson Motor Co., Milwaukee, Wis. Air-drying and stripping enamels, liquid shellac, &c. No. 141,756; Apr. 26; v. 285; p. 788.
- Harley-Davidson Motor Co., Milwaukee, Wis. Clothing. No. 141,757; Apr. 26; v. 285; p. 788.
- Harley, E. C., Company, The, Dayton, Ohio. Coffee. No. 141,954; May 3; v. 286; p. 185.
- Harper & McIntire Company, Incorporated, Ottumwa, Iowa. Articles of hardware, household, and culinary utensils. No. 139,810; Feb. 22; v. 283; p. 753.
- Harper and McIntire Company, Incorporated, Ottumwa, Iowa. Receptacles. No. 140,396; Mar. 15; v. 284; p. 581.
- Harper, A., Son, & Bean Limited, Dudley, England. Internal-combustion engines for use in propelling motor-cars, motorcycles, &c. No. 141,373; Apr. 19; v. 285; p. 567.
- Harper, A., Sons and Bean Limited, Dudley, England. Motor-cars, motorcycles, cycle-cars, and parts thereof. No. 143,035; May 24; v. 286; p. 847.
- Harper, Albert A., St. Louis, Mo. Compound solution for the removal of carbon in automobiles using gasolene and in gasolene-engines, also for the consumption of monoxid gas. No. 145,960; Aug. 23; v. 289; p. 788.
- Harper, Edward F., Philadelphia, Pa. Liniment for rheumatism, sprains, bruises, &c. No. 138,970; Jan. 18; v. 282; p. 554.
- Harps, James A., Greenfield, Ohio. Suspenders. No. 138,637; Jan. 4; v. 282; p. 187.
- Harral Soap Co., Inc., Brooklyn, N. Y. Shampoo. No. 149,098; Dec. 6.
- Harriet Hubbard Ayer, New York, N. Y. Antiseptic liquid-soap shampoo and bath-foam. No. 138,940; Jan. 18; v. 282; p. 553.
- Harriet Hubbard Ayer, New York, N. Y. Rouge, paste, liquid, or powder. No. 138,941; Jan. 18; v. 282; p. 553.
- Harriet Hubbard Ayer, New York, N. Y. Toilet soap. No. 147,916; Nov. 8.
- Harriet Hubbard Ayer, New York, N. Y. Preparation for increasing the brilliancy and removing the yellowness from white or gray hair. No. 149,830; Dec. 27.
- Harriet Hubbard Ayer, New York, N. Y. Powder and rouge compacts. Nos. 149,831-3; Dec. 27.
- Harris, D. F., Hardware & Manufacturing Co., Inc., New York, N. Y. Bicycles. No. 149,581; Dec. 13.
- Harrington Brothers, Marianna, Ark. Liver-pills. No. 141,956; May 3; v. 286; p. 185.
- Harrington, George W., New York, N. Y. Molasses and malt. No. 145,685; Aug. 16; v. 289; p. 594.
- Harris Broom Company, The, Chicago, Ill. Brooms. No. 142,558; May 17; v. 286; p. 627.
- Harris, Albert, New York, N. Y. Ladies' and misses' dresses. No. 147,623; Oct. 25.
- Harris, D. P., Hardware & Manufacturing Co., Inc., New York, N. Y. Bicycles. Nos. 145,686-7; Aug. 16; v. 289; p. 594.
- Harris, David, & Eisner, Scranton, Pa. Knit goods. No. 147,854; Nov. 1.
- Harris, Fay B., Elizabeth, N. J. Shoes of all leather and sport-shoes of leather and fiber construction for men, women, and children. No. 147,219; Oct. 4.
- Harris, Emerson P., Montclair, N. J. Books and pamphlets published from time to time. No. 141,135; Apr. 12; v. 285; p. 381.
- Harris, Friedman & Company, Scranton, Pa. Articles of clothing. No. 141,955; May 3; v. 286; p. 185.
- Harris, George, Calgary, Alberta, Canada. Medicinal preparations made from herbs. No. 145,961; Aug. 23; v. 289; p. 788.
- Harris, Moses H., New York, N. Y. Ophthalmic lenses and blanks. No. 141,374; Apr. 19; v. 285; p. 567.
- Harris-Folk Hat Company, St. Louis, Mo. Straw hats. No. 143,806; June 7; v. 287; p. 191.
- Harris, Richman & Goldstein, New York, N. Y. Men's suits and overcoats. No. 147,325; Oct. 11.
- Harris, Samuel A., New York, N. Y. Fountain-pens. No. 146,576; Sept. 13; v. 290; p. 421.
- Harris Soap Company, Buffalo, N. Y. Laundry soap and oil soaps and soap powder. No. 143,246; May 24; v. 286; p. 856.
- Harris Suspender Company, New York, N. Y. Garters. No. 138,638; Jan. 4; v. 282; p. 187.
- Harris, Wm. F., Cleburne, Tex. Medicinal tonic. No. 140,138; Mar. 8; v. 284; p. 365.
- Harrods (North America) Ltd., New York, N. Y. Ladies' suits, waists, hosiery, and underclothes. No. 143,633; June 7; v. 287; p. 184.
- Harrods (North America) Ltd., New York, N. Y. Men's overcoats. Nos. 143,634-5; June 7; v. 287; p. 184.
- Harrods (North America) Ltd., New York, N. Y. Men's overcoats. No. 145,560; Aug. 9; v. 289; p. 408.
- Harrods (North America) Ltd., New York, N. Y. Hair-tonic. No. 146,244; Sept. 6; v. 290; p. 199.
- Harrold Tool & Forge Co., The, Columbiana, Ohio. Mechanics' tools. No. 141,957; May 3; v. 286; p. 185.
- Harrow-Taylor Butter Co., Kansas City, Mo. Oleomargarin. No. 140,272; Mar. 8; v. 284; p. 371.
- Harrow-Taylor Butter Co., Kansas City, Mo. Oleomargarin. No. 146,245; Sept. 6; v. 290; p. 200.
- Harrower, Henry R., Glendale, Calif. Pluriglandular formulas for the treatment of various endocrine insufficiencies. No. 148,662; Nov. 22.
- Harrower, Henry R., Glendale, Calif. Pluriglandular formulas for the treatment of amenorrhea, &c. No. 149,099; Dec. 6.
- Harrower, Henry R., Glendale, Calif. Pluriglandular formulas for the treatment of asthenia, sub-oxidation, and hypotension. No. 149,100; Dec. 6.



- Hart, Charles, Jamaica, N. Y. Metal composition used in electrotyping. No. 143,036; May 24; v. 286; p. 847.
- Hart, Schallner & Marx, Chicago, Ill. Coats, vests, trousers, overcoats, raincoats. No. 139,097; Jan. 18; v. 282; p. 360.
- Harter Candy Company, The, Toledo, Ohio. Candy. No. 139,811; Feb. 22; v. 283; p. 753.
- Hartford Rubber Works Company, The, Hartford, Conn. Vehicle-tires made of rubber. No. 145,109; July 26; v. 288; p. 813.
- Hartmann-Schneider Company, Johnstown, Pa. Overalls, work-shirts and work-trousers. No. 139,317; Feb. 1; v. 283; p. 169.
- Hartmann, Thomas W. C., Philadelphia, Pa. Spring shock-absorbing devices. No. 146,577; Sept. 13; v. 290; p. 421.
- Hartung, Henry C., Clarkston, Wash. Soap compound. No. 139,812; Feb. 22; v. 283; p. 753.
- Harvey Oil Company, The, Cleveland, Ohio. Roof and surface coatings of a paint nature. No. 139,546; Feb. 8; v. 283; p. 351.
- Harvey Rim and Wheel Company, Buffalo, N. Y. Wheels and demountable rims. No. 148,069; Nov. 8.
- Hartz Manufacturing Company, The, Cleveland, Ohio. Polishes for furniture, automobiles, &c., and for reeling mops. No. 142,559; May 17; v. 286; p. 627.
- Hartz Manufacturing Company, The, Cleveland, Ohio. Mops and a species of mops known as dusters. No. 144,225; June 28; v. 287; p. 775.
- Haskins Brothers & Company, Omaha, Neb., and Sioux City, Iowa. Laundry soap. No. 144,226; June 28; v. 287; p. 775.
- Haskins, R. G., Company, Chicago, Ill. Electrically-operated portable machinery comprising buffers, grinders, &c. No. 142,560; May 17; v. 286; p. 627.
- Hass, Abraham, New York, N. Y. Shoes. No. 149,779; Dec. 20.
- Hassam Paving Company, Worcester, Mass. Street-pavements and bituminous paving materials. No. 148,070; Nov. 8.
- Hassinger, Egon, Barcelona, Spain. Certain paper and stationery. No. 148,071; Nov. 8.
- Hasson Manufacturing Company, Philadelphia, Pa. Safety hair-cutters. No. 139,078; Jan. 18; v. 282; p. 559.
- Hatcher, Chas. M., Mfg. Co., Philadelphia, Pa. Shoe-ink. No. 147,326; Oct. 11.
- Hatheway & Reynolds, Oriskany Falls, N. Y. Sweaters, sweater-coats, and men's and ladies' knit underwear. Nos. 147,855-6; Nov. 1.
- Hathaway Wellington C., Hattiesburg, Miss. Non-alcohol beverages and syrup for making same. No. 148,428; Nov. 15.
- Hatter's Clearing House, Inc., The, New York, N. Y. Men's and boys' hats and caps. No. 143,636; June 7; v. 287; p. 184.
- Hatsoulis, Anton, Brooklyn, N. Y. Chocolates. No. 139,547; Feb. 8; v. 283; p. 351.
- Haug & Co., Inc., New York, N. Y. Flavoring extracts, pie-fillings, spices, egg-whip. No. 143,247; May 24; v. 286; p. 856.
- Haughton, Richard, Paoli, Pa. Seeds (flower, vegetable, and field) and horses. Nos. 138,635-6; Jan. 4; v. 282; p. 187.
- Haughton, Richard, Paoli, Pa. Cattle, sheep, pigs, and chickens, the goods being alive. No. 139,548; Feb. 8; v. 283; p. 351.
- Hausdorf, Erich, Charlottenburg, Germany. Telephonic apparatus. No. 148,856; Nov. 29.
- Hausen, Charles J., New York, N. Y. Garters. No. 143,360; May 31; v. 286; p. 1049.
- Hausman, H., & Company, New York, N. Y. Tickings, cotton suitings, muslins, serges, &c. No. 146,764; Sept. 20; v. 290; p. 634.
- Hawaiian Fruit Products Company Limited, Honolulu, Hawaii. Fruit jams, jellies, and preserves, dried bananas, &c. No. 146,105; Aug. 30; v. 289; p. 1014.
- Hawkins, Edwin C., Paducah, Ky. Wheat-flour. No. 149,101; Dec. 6.
- Hawkins, Frank J., Dallas, Tex. Bleach and toilet cream particularly for use by colored persons. No. 140,397; Mar. 15; v. 284; p. 581.
- Hawkins Lumber Company, Boston, Mass. Lumber. No. 148,072; Nov. 8.
- Hawley & Hoops, New York, N. Y. Chocolate candy. No. 139,318; Feb. 1; v. 283; p. 169.
- Hawley & Hoops, New York, N. Y. Candy. Nos. 143,037-8; May 24; v. 286; p. 847.
- Hawley & Hoops, New York, N. Y. Candy. No. 146,765; Sept. 20; v. 290; p. 634.
- Haworth, Richard and Company, Limited, Manchester, England. Articles of clothing. No. 145,797; Aug. 16; v. 289; p. 597.
- Haya, Fannie, Tampa, Fla. Cigars. No. 139,938; Feb. 22; v. 283; p. 759.
- Hayden, Henry F., Washington, D. C. Vegetable liquid boiler compound and also antifreezing compound. No. 149,404; Dec. 13.
- Hayes, Pearly A., Greensboro, N. C. Salve for relief of inflammation, croup, &c. No. 140,822; Mar. 29; v. 284; p. 944.
- Hayes Shock Absorber Sales Co., Minneapolis, Minn. Shock absorbers. No. 140,398; Mar. 15; v. 284; p. 581.
- Hayfay Laboratories, Union Hill, N. J. Dentifrice. No. 148,663; Nov. 22.
- Hayhurst, John R., Evansville, Ind. Pile-salve. No. 147,327; Oct. 11.
- Haymore, J. Baxter, Macon, N. C. Antiseptic solution. No. 145,688; Aug. 16; v. 289; p. 594.
- Haynes, Henry A., Winterville, Ga. Worm medicine and tonic for stock. No. 143,361; May 31; v. 286; p. 1049.
- Hays, S. G., Tulsa, Okla. Hair-tonic, dandruff-remover, toilet water. No. 141,375; Apr. 19; v. 285; p. 567.
- Haywood, T. Holt, New York, N. Y. Cotton goods in the piece. No. 141,574; Apr. 26; v. 285; p. 780.
- Haywood Tire & Equipment Company, Marion, Ind. Tire-repair equipment. No. 148,429; Nov. 15.
- Hazard Lead Works, Inc., The, Hazardville, Conn. Paints and painters' materials. No. 141,039; Mar. 29; v. 284; p. 952.
- Hazard Manufacturing Company, Wilkes-Barre, Pa., and New York, N. Y. Insulated wire and cables, &c. No. 144,578; July 12; v. 288; p. 424.
- Hazelrigg, Frank C., Indianapolis, Ind. Tonic alternative. No. 149,102; Dec. 6.
- Head-Lipscomb-McCormick Co., Bristol, Va. Overalls, work and dress shirts. No. 139,319; Feb. 1; v. 283; p. 169.
- Headley Chocolate Co., Baltimore, Md. Candy. No. 145,378; Aug. 2; v. 289; p. 179.
- Health Laboratories, Scranton, Pa. Specific for blood diseases. No. 149,939; Dec. 27.
- Health Laboratories, Scranton, Pa. Specific for rheumatism. No. 149,940; Dec. 27.
- Heatons (Leeds.) Ltd., Leeds, England. Ladies' raincoats. No. 149,103; Dec. 6.
- Healy, A. Edward, Brooklyn, N. Y. Local anesthetic. No. 145,689; Aug. 16; v. 289; p. 594.
- Healy, Bernard P., Sea Park, Skerries, Ireland. Perfumery, hair-tonics, lotions, &c. No. 141,138; Apr. 12; v. 285; p. 381.
- Hearn, James A., & Son, Inc., New York, N. Y. Corsets. No. 143,637; June 7; v. 287; p. 184.
- Hearn, James A., & Son, Inc., New York, N. Y. Articles of clothing. No. 143,638; June 7; v. 287; p. 184.
- Heart of Maine Packing Co., Lewiston, Me. Canned vegetables—namely, corn—and canned apple sauce. No. 143,039; May 24; v. 286; p. 847.
- Heaton-Peninsular Button Fastener Co., Boston, Mass. Three-pronged-button fasteners. No. 138,639; Jan. 4; v. 282; p. 187.
- Heaton Peninsular Button Fastener Company, Portland, Me., and Boston, Mass. Metallic button-fasteners. No. 143,974; June 21; v. 287; p. 580.
- Heberlein, Heinrich T., Jr., Markneukirchen, Germany. Certain stringed musical instruments and strings and bows therefor. No. 146,480; Sept. 6; v. 290; p. 212.
- Hecht and Mendes Incorporated, New York, N. Y. Serges in the piece. No. 149,104; Dec. 6.
- Hecht & Mendes Incorporated, New York, N. Y. Napped cotton, wool, or silk piece goods. No. 149,105; Dec. 6.
- Hecht, Mendes & Mandel, New York, N. Y. Cotton piece goods and cotton mixtures in the piece. No. 141,958; May 3; v. 286; p. 185.
- Hecht, Meyer, New York, N. Y. Raw skins and hides. No. 140,823; Mar. 29; v. 284; p. 944.
- Hecker Cereal Company, New York, N. Y. Prepared cake-flour. No. 143,639; June 7; v. 287; p. 184.
- Heckman-Hunt Corporation, The, Boston, Mass. Underwear and hosiery. No. 140,604; Mar. 22; v. 284; p. 745.
- Heddon's, James, Sons, Dowagiac, Mich. Bamboo casting-rods, artificial wooden minnows, casting-reels. No. 142,875; May 17; v. 286; p. 639.
- Heddon's, James, Sons, Dowagiac, Mich. Artificial minnows. No. 146,246; Sept. 6; v. 290; p. 200.
- Hedeman, William A., New York, N. Y. Piece goods, consisting of velvet and velveteen cloth. No. 141,959; May 3; v. 286; p. 185.
- Hedeman, William A., New York, N. Y. Piece goods, consisting of velvet and velveteen cloths. No. 142,562; May 17; v. 286; p. 628.
- Hedges & Gray, New York, N. Y. Hat-covers and ladies' and children's hats. No. 140,605; Mar. 22; v. 284; p. 745.
- Hedges, Harry K., Los Angeles, Calif. Interior and exterior building plaster and cement. No. 141,960; May 3; v. 286; p. 185.
- Hedge's Orange Ale Co., Detroit, Mich. Non-cereal maltless beverage. No. 146,479; Sept. 6; v. 290; p. 212.
- Heekin Spice Company, The, Cincinnati, Ohio. Spices, tea, table sauces, flavoring extracts, barley, &c. No. 140,824; Mar. 29; v. 284; p. 944.
- Heekin Spice Company, The, Cincinnati, Ohio. Baking-powder. No. 140,825; Mar. 29; v. 284; p. 944.
- Hegewisch Chemical Works, Chicago, Ill. Preparation for coughs, colds, and first stages of consumption. No. 138,821; Jan. 11; v. 282; p. 376.
- Hegewisch Chemical Works, Chicago, Ill. Baking-powder. No. 140,139; Mar. 8; v. 284; p. 365.
- Heid Bros. Inc., El Paso, Tex. Wheat-flour. No. 143,640; June 7; v. 287; p. 184.
- Heimbruch, C. Ludwig, New York, N. Y. Buttons. No. 144,794; July 19; v. 288; p. 618.
- Heimerdinger, William G., Louisville, Ky. Sheep, mule, grass, hedge, and pruning shears. No. 147,620; Oct. 25.



*Alphabetical list of registrants of trade-marks—Continued.*

- Heinick, Frederick R., San Francisco, Calif. Pearls and pearl necklaces. No. 142,273; May 10; v. 286; p. 404.
- Heinick, Frederick R., San Francisco, Calif. Pongee silk in the piece. No. 145,110; July 26; v. 288; p. 813.
- Heinrich Chemical Company, Minneapolis, Minn. Perfumes, toilet waters, and creams, tissue-tonics, &c. No. 146,104; Aug. 30; v. 289; p. 1014.
- Heintz, Merkle & Company, Philadelphia, Pa. Mayonnaise, mince-meat, salted peanuts. No. 147,621; Oct. 25.
- Heiser Company, The, Cleveland, Ohio. Photographs, photographic prints, and commercial photographs. No. 147,328; Oct. 11.
- Heitz & Williams, Santa Cruz, Calif. Skin-lotion. No. 140,142; Mar. 8; v. 284; p. 365.
- Hejda, John F., Baltimore, Md. Toilet cream. No. 149,106; Dec. 6.
- Helbig, Harold, Washington, D. C. Polish which acts as a cleanser for pianos, phonographs, and furniture. No. 142,876; May 17; v. 286; p. 639.
- Helies, Frank B., Elizabeth, N. J. Leather floor-mats. No. 149,107; Dec. 6.
- Heller, B. & Co., Chicago, Ill. Ant-destroyer. No. 141,292; Apr. 12; v. 285; p. 388.
- Heller, B., and Company, Chicago, Ill. Preparation for the poisoning of vermin and rodents. No. 144,659; July 12; v. 288; p. 427.
- Heller, B. and Company, Chicago, Ill. Baking-powder. No. 147,220; Oct. 4.
- Heller, Eli, New York, N. Y. Piece goods of cotton and of muslin. No. 148,430; Nov. 15.
- Heller, I., & Co., Inc., New York, N. Y. Ladies' dresses and costumes. No. 142,877; May 17; v. 286; p. 639.
- Heller, L., & Son, Inc., New York, N. Y. Precious stones—viz., rubies, emeralds, and pearls. No. 148,431; Nov. 15.
- Heller Leather Company, The, Milwaukee, Wis. Leather gloves. No. 149,780; Dec. 20.
- Hellmann, Louis H., New York, N. Y. Fresh potatoes. No. 143,641; June 7; v. 287; p. 184.
- Helm Candy Co., Lancaster, Pa. Candy. No. 146,996; Sept. 27; v. 290; p. 804.
- Helpy Selfy, Dallas, Tex. Certain articles of food. No. 147,686; Oct. 25.
- Helvetia Milk Condensing Company, Highland, Ill. Sweetened, unsweetened, full-cream evaporated and condensed milk and unsweetened whole-cream milk. Nos. 148,664-5; Nov. 22.
- Helvie, Rickie L., Miami, Fla. Ready-mixed paints. No. 140,140; Mar. 8; v. 284; p. 365.
- Hemmerdinger, L., & Co., New York, N. Y. Mending-cement. No. 149,941; Dec. 27.
- Heminway & Bartlett Silk Co., Watertown, Conn. Hosiery. No. 143,975; June 21; v. 287; p. 580.
- Hemmick, Clarence C., Chicago, Ill. Men's collars, cuffs, dress and negligee shirts, &c. No. 145,111; July 26; v. 288; p. 813.
- Hemp & Co. (Corp.), St. Louis, Mo. Metal well-buckets provided with an upwardly-lifting valve. No. 140,826; Mar. 29; v. 284; p. 944.
- Hemp & Co. (Corp.), St. Louis, Mo. Stovepipes and stove-pipe-elbows. No. 143,362; May 31; v. 286; p. 1049.
- Hemp & Co. (Corp.), St. Louis, Mo. Stovepipes and stove-pipe-elbows. No. 147,221; Oct. 4.
- Hempel, Otto F., Buffalo, N. Y. Deodorant and astringent. No. 143,363; May 31; v. 286; p. 1049.
- Hemphill Company, Pawtucket, R. I. Knitting-machines. Nos. 140,827-9; Mar. 29; v. 284; p. 944.
- Hempy-Cooper Manufacturing Company, Kansas City, Mo. Indicators for indicating the internal condition of storage and other batteries. No. 138,822; Jan. 11; v. 282; p. 376.
- Henderson, Goldson R., Detroit, Mich. Preparation for treatment of tender feet. No. 139,143; Jan. 25; v. 282; p. 734.
- Henderson, Goldson R., Detroit, Mich. Hair-restorer. No. 144,414; July 5; v. 288; p. 193.
- Henderson, John W., Charleston, W. Va. Salve for cuts, boils, abscesses, carbuncles, sores, and infection. No. 149,108; Dec. 6.
- Henderson, Thos., New York, N. Y. Food-flavoring extract for imparting a maple flavor. No. 148,432; Nov. 15.
- Henderson, Samuel G. G., Los Angeles, Calif. Vegetable compound for the treatment of the stomach, liver, bowels, &c. No. 138,823; Jan. 11; v. 282; p. 376.
- Henderson, Warwick, Newton Center, assignor to Kangaroo Polish Co., Newton, Mass. Shoe-polish. No. 147,777; Nov. 1.
- Hendler Creamery Company, The, Baltimore, Md. Title for a monthly publication. No. 149,942; Dec. 27.
- Hendricks, William H., Reno, Nev. Weekly publication. No. 147,329; Oct. 11.
- Henkel-Clauss Co., The, Fremont, Ohio. Hand implements for cutting, carving, trimming, &c. No. 141,758; Apr. 26; v. 285; p. 788.
- Henningsen Produce Company, Portland, Oreg. Evaporated milk. No. 145,506; Aug. 2; v. 289; p. 184.
- Henry Furnace and Foundry Company. (See Henry, T. E., Furnace Company, The, assignor.)
- Henry, T. E., Furnace Company, The, assignor, by mesne assignments, to The Henry Furnace and Foundry Company, Cleveland, Ohio. Furnaces. No. 139,718; Feb. 15; v. 283; p. 541.
- Hensel-Mulranen Company, Inc., The, Syracuse, N. Y. Paper-fasteners. No. 148,073; Nov. 8.
- Henshaw, Charles S., Boston, Mass. Motor-vehicles. No. 144,156; June 21; v. 287; p. 591.
- Henwood & Nowak, Boston, Mass. Glazed kid. No. 143,976; June 21; v. 287; p. 580.
- Heppes-Nelson Roofing Company, The, Chicago, Ill. Prepared roofing. Nos. 144,579-80; July 12; v. 288; p. 424.
- Hepworth, S. S., Company, New York, N. Y. Centrifugal driers, centrifugal filters, centrifugal separators and unloaders, conveyers, elevators, and mixers therefor. No. 148,582; Nov. 15.
- Herald-Leader Company, Menominee, Mich. Illustrated magazine published monthly. No. 145,112; July 26; v. 288; p. 813.
- Herbert Packing Co. Inc., San Jose, Calif. Canned fruits and vegetables. No. 143,040; May 24; v. 286; p. 847.
- Herbert, Phil., Houston, Tex. Medicine for the respiratory organs. No. 141,961; May 3; v. 286; p. 185.
- Herboline Company, Los Angeles, Calif. Salve for piles. No. 146,108; Aug. 30; v. 289; p. 1014.
- Hercules Powder Company, Wilmington, Del. Smokeless sporting-powder. No. 139,939; Feb. 22; v. 283; p. 759.
- Herink, Charles A., New York, N. Y. Coffee. No. 149,679; Dec. 20.
- Herman Neckwear Manufacturing Company, Dallas, Tex. Men's belts, hose-supporters, suspenders. No. 139,549; Feb. 8; v. 283; p. 351.
- Herpich, John L., Columbus, Ohio. Medicinal preparation. No. 141,962; May 3; v. 286; p. 185.
- Herrera, Francisco, New York, N. Y., and Habana, Cuba. Medicinal preparation for the treatment of intestinal troubles and nerve and reconstruction tablets. No. 143,041; May 24; v. 286; p. 847.
- Herrera, Francisco, Habana, Cuba, and New York, N. Y. General tonic. No. 143,977; June 21; v. 287; p. 580.
- Herriott Polish Co., The, St. Louis, Mo. Preparation for cleaning, shining, and polishing shoes and all leather articles. No. 147,330; Oct. 11.
- Herrmann, Gauge Co., The, Detroit, Mich. Thread-gages. No. 145,268; July 26; v. 288; p. 822.
- Herrmann, Oscar, New York, N. Y. Frames for teaching objectively. No. 138,971; Jan. 18; v. 282; p. 554.
- Hershey, Samuel W., York, Pa. Wheat-flour. No. 148,433; Nov. 15.
- Hervey, J. P., Boynton, Okla. Medicinal preparations. No. 139,994; Mar. 1; v. 284; p. 174.
- Herz, Alexander, New York, N. Y. Merchandise-envelops. No. 148,074; Nov. 8.
- Herzfeld-Phillipson Company, The, Milwaukee, Wis. Corsets. No. 143,642; June 7; v. 287; p. 184.
- Herzfeld-Phillipson Company, The, Milwaukee, Wis. Men's and boys' clothing consisting of coats, trousers, and vests. No. 143,643; June 7; v. 287; p. 184.
- Hesco Limited, London, England. Hand lifting-trucks. No. 146,766; Sept. 20; v. 290; p. 634.
- Hespe, Alfred T., New York, N. Y. Thermometers, hydrometers, and hygrometers. No. 145,379; Aug. 2; v. 289; p. 179.
- Hess-Bright Manufacturing Company, The, Philadelphia, Pa. Antifriction bearings and shaft-hangers. No. 139,079; Jan. 18; v. 282; p. 559.
- Hess, E. E., Company, The, Brook, Ind. Witch-hazel cream. No. 145,962; Aug. 23; v. 289; p. 788.
- Hess, Goldsmith & Co., New York, N. Y. Silk and silk and wool mixture piece goods. No. 143,364; May 31; v. 286; p. 1049.
- Hessig-Ellis Drug Company, The, Memphis, Tenn. Toilet preparations. No. 139,680; Feb. 8; v. 283; p. 357.
- Hessig-Ellis Drug Co., Memphis, Tenn. Medicines and pharmaceutical preparations. No. 141,376; Apr. 19; v. 285; p. 567.
- Hester, Zachary, Chicago, Ill. Medicine for the treatment of lungs. No. 146,247; Sept. 6; v. 290; p. 200.
- Hethrick Manufacturing Company, The, Toledo, Ohio. Cotton goods in the piece. No. 145,561; Aug. 9; v. 289; p. 408.
- Heunser, H. N., & Son, Hanover, Pa. Cigars. No. 146,248; Sept. 6; v. 290; p. 200.
- Hewitt, C. B., & Brothers, Inc., New York, N. Y. Binders' paper and board. No. 141,377; Apr. 19; v. 285; p. 567.
- Hewitt, C. B., & Brothers, Inc., New York, N. Y. Papers. No. 141,378; Apr. 19; v. 285; p. 567.
- Hewitt, C. B., & Brothers, Inc., New York, N. Y. Wrapping and binders' paper and binders' board. Nos. 141,379-80; Apr. 19; v. 285; p. 567.
- Hewitt, C. B., & Brothers, Inc., New York, N. Y. Binders' board. No. 141,381; Apr. 19; v. 285; p. 567.
- Hewitt, C. B., & Brothers, Inc., New York, N. Y. Drawing-paper. No. 142,564; May 17; v. 286; p. 628.
- Hewitt, C. B., & Brothers, Inc., New York, N. Y. Roofing paper. No. 145,380; Aug. 2; v. 289; p. 179.
- Hewitt, Wm. H., Chicago, Ill. Soap. No. 148,075; Nov. 8.
- Heyers & Vanriker, Bloomfield, N. J. Insecticide. No. 146,997; Sept. 27; v. 290; p. 804.
- Hibbard, Spencer, Bartlett & Co., Chicago, Ill. Certain machines and tools. No. 149,943; Dec. 27.
- Hickok, George F., San Francisco, Calif. Certain tools. No. 146,249; Sept. 6; v. 290; p. 200.
- Hickok Manufacturing Company, Inc., Rochester, N. Y. Belts for supporting wearing-apparel and buckles not of precious metal for personal use. No. 143,978; June 21; v. 287; p. 580.



- Hickman, Williams & Co. Inc., Cincinnati, Ohio. Pig-iron, ferro alloys, and steel. No. 140,040; Mar. 1; v. 284; p. 176.
- Hide Leather & Belting Co., Indianapolis, Ind. Leather belting. No. 139,144; Jan. 25; v. 282; p. 734.
- Hide Leather & Belting Company, Indianapolis, Ind. Leather belting. No. 140,273; Mar. 8; v. 284; p. 371.
- Hide Leather & Belting Co., Indianapolis, Ind. Leather belting. No. 148,857; Nov. 29.
- Hieber, John G. F., Spokane, Wash. Non-alcoholic, non-intoxicating, &c., beverages. No. 141,963; May 3; v. 286; p. 185.
- Hieronimus, J. A., & Sons, San Francisco, Calif. Engine and motor oils, greases, and lubricants. No. 140,607; Mar. 22; v. 284; p. 745.
- Higginbotham-Bailey-Logan Company, Inc., Dallas, Tex. Hosiery. No. 141,964; May 3; v. 286; p. 185.
- Higgs, Percy J., New York, N. Y. Phonographs, talking-machines, reproducers, &c. No. 144,415; July 5; v. 288; p. 193.
- Highland Apple Company, Underwood, Wash. Apple-butter. No. 146,103; Aug. 30; v. 289; p. 1014.
- Highland Brewing Co., Highland, Ill. Non-intoxicating, cereal, malt beverage. No. 142,565; May 17; v. 286; p. 628.
- Highland Manufacturing Company, Holyoke, Mass. Round and square corner cut name, data, and index cards. No. 143,365; May 31; v. 286; p. 1050.
- Highland Manufacturing Co., Highland Park, N. J. Transparent cement. No. 148,076; Nov. 8.
- Highway Iron Products Co., Ligonier, Ind. Metal culverts. No. 145,690; Aug. 16; v. 289; p. 594.
- Higley and Mortensen, San Francisco, Calif. Musical instruments. No. 146,250; Sept. 6; v. 290; p. 200.
- Hilker-Wiechers Mfg. Co., The Racine, Wis. Work, dress, and flannel shirts. No. 139,814; Feb. 22; v. 283; p. 753.
- Hill, Arthur L., New York, N. Y. Toilet preparations. No. 140,143; Mar. 8; v. 284; p. 365.
- Hill, Clarke & Co. of Chicago, Chicago, Ill. Certain machinery and tools. No. 144,121; June 21; v. 287; p. 587.
- Hill & Cutler Co., Boston and New Bedford, Mass. Cotton-waste. No. 143,366; May 31; v. 286; p. 1050.
- Hill Rubber Heel Company, The, Elyria, Ohio. Rubber heels. No. 143,367; May 31; v. 286; p. 1050.
- Hill-Smith Goods Company, Boston, Mass. Welding compounds. No. 143,979; June 21; v. 287; p. 580.
- Hill, W. H., Co., Detroit, Mich. Tablets for colds, coughs, headache, and la grippe. No. 146,481; Sept. 6; v. 290; p. 212.
- Hillerich & Bradshy Co., Inc., Louisville, Ky. Baseball-bats. No. 146,767; Sept. 20; v. 290; p. 634.
- Hillinger, Yetta, Vallejo, Calif. Tea composed of herbs and plants. No. 143,644; June 7; v. 287; p. 184.
- Hillman Drug Co., Mart, Tex. Medicine for treatment of influenza, colds, and grippe. No. 141,572; Apr. 26; v. 285; p. 780.
- Hilton Collins Co., Louisville, Ky. Baseball-bats. No. 144,227; June 28; v. 287; p. 775.
- Hilton Collins Co., Incorporated, Louisville, Ky. Baseball-bats. No. 149,944; Dec. 27.
- Hilton Company, Inc., The, Newark, N. J. Men's and boys' clothing. Nos. 143,980-1; June 21; v. 287; p. 580.
- Hilton, Herbert, New Bedford, Mass. Automobile and furniture polish. No. 141,139; Apr. 12; v. 285; p. 381.
- Himmel, M. L., & Son, Baltimore, Md. Sectional garment-cabinet. No. 146,034; Aug. 23; v. 289; p. 792.
- Himmel, M. L., & Son, Baltimore, Md. Revolving-rack wardrobes. No. 146,035; Aug. 23; v. 289; p. 792.
- Himmel, M. L., & Son, Baltimore, Md. Certain store furniture, &c. No. 146,036; Aug. 23; v. 289; p. 792.
- Himmel, M. L., & Son, Baltimore, Md. Revolving-rack wardrobes. No. 146,037; Aug. 23; v. 289; p. 792.
- Himmel, M. L., & Son, Baltimore, Md. Showcases. No. 149,405; Dec. 13.
- Hinck & Muller, New York, N. Y. Cotton piece goods. Nos. 139,320-1; Feb. 1; v. 283; p. 169.
- Hinck & Muller, New York, N. Y. Cotton piece goods. No. 140,608; Mar. 22; v. 284; p. 745.
- Hinck & Muller, New York, N. Y. Cotton piece goods. No. 141,140; Apr. 12; v. 285; p. 381.
- Hinck & Muller, New York, N. Y. Cotton piece goods. No. 141,382; Apr. 19; v. 285; p. 567.
- Hinck & Muller, New York, N. Y. Cotton piece goods. No. 142,566; May 17; v. 286; p. 628.
- Hinck & Muller, New York, N. Y. Cotton piece goods. No. 143,042; May 24; v. 286; p. 847.
- Hinck & Muller, New York, N. Y. Cotton piece goods. No. 149,945; Dec. 27.
- Hind & Harrison Plush Co., The, New York and Clark Mills, N. Y. Pile-fabric piece goods. No. 147,111; Oct. 4.
- Hindu Chemical Co., Houston, Tex. Preparation for the local treatment of piles. No. 145,963; Aug. 23; v. 289; p. 788.
- Hinrichs, George F., Incorporated, New York, N. Y. Eggs and live and dressed poultry. No. 143,645; June 7; v. 287; p. 184.
- Hinrichs, George F., Incorporated, New York, N. Y. Eggs, butter, and poultry. No. 145,964; Aug. 23; v. 289; p. 788.
- Hinrichs, George F., Inc., New York, N. Y. Dressed poultry. No. 148,434; Nov. 15.
- Hinrichs, George F., Inc., New York, N. Y. Dressed poultry. No. 148,666; Nov. 22.
- Hipwell Manufacturing Co., Pittsburgh, Pa. Flashlights and dry batteries. No. 141,383; Apr. 19; v. 285; p. 567.
- Hirsch Brothers Co., Inc., Chicago, Ill. Whip-powder. No. 140,399; Mar. 15; v. 284; p. 581.
- Hirsch, Cal. & Sons, Mercantile Co., St. Louis, Mo., and Los Angeles, Calif. Men's and boys' outer clothing. No. 142,567; May 17; v. 286; p. 628.
- Hirsch, Cal., & Sons, Mercantile Co., St. Louis, Mo., and Los Angeles, Calif. Ladies' cotton and woolen outtings consisting of coats, caps, &c. No. 143,646; June 7; v. 287; p. 184.
- Hirsch, Cal. & Sons, Mercantile Co., St. Louis, Mo., and Los Angeles, Calif. Puttees. No. 149,109; Dec. 6.
- Hirsch, S., Distilling Co., Kansas City, Mo. Non-alcoholic maltless beverage. No. 139,322; Feb. 1; v. 283; p. 169.
- Hirsch, Walter J., Company, Chicago, Ill. Salted peanuts. No. 140,609; Mar. 22; v. 284; p. 745.
- Hirsch, Walter J., Company, Chicago, Ill. Peanut-butter, salted peanuts. No. 141,384; Apr. 19; v. 285; p. 567.
- Hirsch, Walter J., Co., Chicago, Ill. Peanut-butter. No. 142,568; May 17; v. 286; p. 628.
- Hirsch, Walter J., Co., Chicago, Ill. Peanut-butter. No. 145,113; July 26; v. 288; p. 814.
- Hirst-Roger Co., The, Philadelphia, Pa. Tapestry Brussels rugs. No. 139,455; Feb. 1; v. 283; p. 175.
- Hirth Krause Company, Rockford, Mich. Shoes of leather, leather and fabric, and gloves of leather and leather and fabric. No. 143,043; May 24; v. 286; p. 847.
- Hite, S. P., Company, Inc., Roanoke, Va. Olive-oil, flavoring oils and extracts. No. 146,482; Sept. 6; v. 290; p. 212.
- Hitzl, Carl, Parlier, Calif. Fresh deciduous fruits. No. 139,550; Feb. 8; v. 283; p. 351.
- Hixon, Jesse L., Royersford, Pa. Medicine for aiding digestion. No. 139,681; Feb. 8; v. 283; p. 357.
- H-O Cereal Company, Inc., The, Buffalo, N. Y. Magazine or house organ published and issued by it. No. 149,110; Dec. 6.
- Hoadley, Edward J., Hartford, Conn. Breath-perfume lozenges. No. 144,581; July 12; v. 288; p. 424.
- Hoback, Leonard L., Athens, Tenn. Medicinal preparation for tonsillitis, sore throat, &c. No. 149,946; Dec. 27.
- Hobart Manufacturing Company, The, Troy, Ohio. Machines for roasting food products. No. 148,435; Nov. 15.
- Hobbs Laboratories Inc., Los Angeles, Calif. Storage batteries. No. 144,416; July 5; v. 288; p. 193.
- Hochrack, Kathryn, Bloomington, Ill. Toilet preparations. No. 143,044; May 24; v. 286; p. 847.
- Hockaday, Frank W., Wichita, Kans. Metal signs used as road-markers. No. 140,830; Mar. 29; v. 284; p. 944.
- Hockaday, Frank W., Wichita, Kans. Wooden signs used as road-markers. No. 141,385; Apr. 19; v. 285; p. 567.
- Hockaday, Robert, Baltimore, Md. Solid woven belting for power transmission. No. 140,274; Mar. 8; v. 284; p. 371.
- Hodge, Noah, Los Angeles, Calif. Liniment. No. 146,107; Aug. 30; v. 289; p. 1014.
- Hodgson Pump Company, Limited, The, Bamber Bridge, near Preston, England. Machine-pumps. No. 148,436; Nov. 15.
- Hoefler, Henry R., Astoria, Ore. Confectionery. No. 139,551; Feb. 8; v. 283; p. 351.
- Hoegge, Wm. H., Inc., Los Angeles, Calif. Fishing-lines. No. 147,727; Oct. 25.
- Hoegger, Joseph A. (See Squier, George C., assignor.) Hoenigsberger, A., Chicago, Ill. Pile fabrics of either silk, cotton, mohair, &c. No. 148,437; Nov. 15.
- Hofe, George D., South Orange, N. J. Toilet preparations—viz., depilatories. No. 139,815; Feb. 22; v. 283; p. 753.
- Hofer, Laurence F., Salem, Ore. Ink for use in stencil-duplicating machines. No. 142,569; May 17; v. 286; p. 628.
- Hoffeld, Henry R., Buffalo, N. Y. Patches for repairing inner tubes of tires, &c. No. 143,368; May 31; v. 286; p. 1050.
- Hoge Manufacturing Company, The, New York, N. Y. Propel-pencils and leads and erasers therefor. No. 145,114; July 26; v. 288; p. 814.
- Holbrook Co., The, New York, N. Y. Vehicle-bodies. No. 145,891; Aug. 16; v. 289; p. 602.
- Holcomb, Dello A., Youngstown, Ohio. Dry cleaner, metal and glass polish. No. 144,228; June 28; v. 287; p. 775.
- Holden-Leonard Co., New York, N. Y. Worsted and woolen textile fabrics in the piece. Nos. 146,768-9; Sept. 20; v. 290; p. 634.
- Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. No. 143,647; June 7; v. 287; p. 184.
- Holden-Leonard Company, New York, N. Y. Textile fabrics in the piece. No. 145,115; July 26; v. 288; p. 814.
- Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics in the piece. No. 145,965; Aug. 23; v. 289; p. 788.
- Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics in the piece. No. 146,110; Aug. 30; v. 289; p. 1014.



*Alphabetical list of registrants of trade-marks—Continued.*

- Holden, Leonard, Company, New York, N. Y. Worsted and woolen textile fabrics in the piece. No. 146,251; Sept. 6; v. 290; p. 200.
- Holdzgem Company. (See Lippmann, Leopold J., assignor.)
- Holland, Abraham D., Chicago, Ill. Medicinal preparation used as a remedy for coughs and colds. No. 145,691; Aug. 16; v. 289; p. 594.
- Holland, E. S. Co., Inc., New York, N. Y. Gelatin compound used in the Janney reproduction process. No. 144,417; July 5; v. 288; p. 193.
- Holland Food Corporation, New York, N. Y. Dried fruits, flours—namely, rolled oats, olein. No. 144,799; July 19; v. 288; p. 618.
- Holland Mfg. Co., New York, N. Y. Sewing-thread for hand, machine, and embroidery work. No. 147,222; Oct. 4.
- Holland-O'Neal Milling Co., Springfield, Mo. Wheat-flour. No. 143,045; May 24; v. 286; p. 847.
- Holland Shoe Co., Holland, Mich. Leather footwear. No. 149,111; Dec. 6.
- Hollander, Harry, Brooklyn, N. Y. Brassière. No. 142,274; May 10; v. 286; p. 404.
- Hollander-Koshland Co., Baltimore, Md. Medicine for the treatment of coughs and colds. No. 144,796; July 19; v. 288; p. 618.
- Holley, William G., Fort Wayne, Ind. Medicinal preparation for indigestion, dyspepsia, &c. No. 141,965; May 3; v. 286; p. 185.
- Holley, William G., Fort Wayne, Ind. General tonic. No. 146,770; Sept. 20; v. 290; p. 634.
- Holliday, Austin J., Washington, D. C. Medical preparation for the treatment of colds, influenza, &c. No. 145,966; Aug. 23; v. 289; p. 788.
- Holliday, Francis L., Westerly, R. I. Preparation for the treatment of asthma. No. 148,858; Nov. 29.
- Hollingshead, R. M., Co., The, Camden, N. J. Soap. No. 148,078; Nov. 8.
- Hollingshead, R. M., Co., The, Camden, N. J. Flake-graphite, mica, and soapstone. No. 149,947; Dec. 27.
- Hollingshead, R. M., Co., The, Camden, N. J. Certain adhesives. No. 149,948; Dec. 27.
- Hollingshead, W. R., Company, Binghamton, N. Y. Perfumes. No. 140,144; Mar. 8; v. 284; p. 365.
- Hollingshead, W. R., Company, Binghamton, N. Y. Bluing. No. 141,966; May 3; v. 286; p. 185.
- Hollingshead, W. R., Company, Binghamton, N. Y. Healing and soothing salve for cuts, burns, bruises, and sores. No. 143,046; May 24; v. 286; p. 847.
- Hollingshead, W. R., Company, Binghamton, N. Y. Toy. No. 146,252; Sept. 6; v. 290; p. 200.
- Hollingshead, W. R., Company, Binghamton, N. Y. Washing-tablets. No. 148,077; Nov. 8.
- Hollingsworth Candy Co., Augusta, Ga. Candy. No. 143,049; May 24; v. 286; p. 847.
- Hollingsworth, Horace, Leicester, England. Boots, shoes, and slippers. No. 140,610; Mar. 22; v. 284; p. 745.
- Hollins, William, & Co., Limited, Mansfield and London, England. Mixture of wool and cotton piece goods. No. 140,631; Mar. 29; v. 284; p. 944.
- Hollins, William, & Co., Limited, Mansfield and London, England. Pure-silk piece goods. No. 141,141; Apr. 12; v. 285; p. 381.
- Hollins, William, & Co., Inc., New York, N. Y. Certain articles of clothing. No. 147,857; Nov. 1.
- Hollins, William, & Company, Limited, London and Mansfield, England. Articles of clothing. No. 146,578; Sept. 13; v. 290; p. 421.
- Hollinshead, Chas., Co., Inc., New York, N. Y. Prime summer yellow cotton-seed oil. No. 138,972; Jan. 18; v. 282; p. 554.
- Hollinshead, Chas., Co., Inc., New York, N. Y. Soy-bean oil. No. 139,323; Feb. 1; v. 283; p. 169.
- Hollinshead, Chas., Co., Inc., New York, N. Y. Choice refined corn-oil. No. 139,325; Feb. 1; v. 283; p. 169.
- Hollinshead, Chas., Co., Inc., New York, N. Y. Choice refined peanut-oil. No. 142,570; May 17; v. 286; p. 628.
- Hollinshead, Chas. Co., Inc., New York, N. Y. Refined coeanut-oil. No. 143,369; May 31; v. 286; p. 1050.
- Hollis, Otis A., Knoxville, Pa. Window ventilating-screens. No. 143,982; June 21; v. 287; p. 588.
- Hollow Building Tile Association, The, Chicago, Ill. Building-tile made of clay products. No. 141,573; Apr. 26; v. 285; p. 780.
- Holman Manufacturing Company, Sheboygan, Wis. Denim, drill, and duck overalls and jackets. No. 140,833; Mar. 29; v. 284; p. 944.
- Holmes Automobile Company, Canton, Ohio. Automobiles. No. 143,807; June 7; v. 287; p. 191.
- Holmes Automobile Company, The, Canton, Ohio. Automobiles. No. 148,667; Nov. 22.
- Holophane Glass Company, Inc., New York, N. Y. Glass globes and reflectors for artificial light. Nos. 141,967-8; May 3; v. 286; p. 185.
- Holt & Company, New York, N. Y. Wheat-flour. No. 139,719; Feb. 15; v. 283; p. 541.
- Holt, E. M., Plaid Mills, Inc., Burlington, N. C. Cotton goods in the piece. No. 147,622; Oct. 25.
- Holtz, Louis, & Sons, Inc., Rochester, N. Y. Coats, trousers, vests, overcoats, ulsters, raincoats. No. 145,692; Aug. 16; v. 289; p. 594.
- Holters Company, The, Cincinnati, Ohio. Shoes made of leather fabric and combined leather and fabric. No. 147,331; Oct. 11.
- Holton, B. E., Company, Los Angeles, Calif. Paint air-brushes and oil, water, and dust separators. No. 140,832; Mar. 29; v. 284; p. 944.
- Holycross, Cloyd B., Dayton, Ohio. External preparation for diseases of the skin. No. 149,782; Dec. 20.
- Holyoke Machine Co., Holyoke, Mass. Turbine water-wheels. No. 141,386; Apr. 19; v. 285; p. 567.
- Homac Corporation, Syracuse, N. Y. Italian paste products, such as macaroni. No. 148,079; Nov. 8.
- Homeaid Products Co., Jersey City, N. J. Preparation for treatment of warts. No. 149,949; Dec. 27.
- Home Maid Products Company Inc., The, New York, N. Y. Jams, jellies, chilli sauce, &c. No. 139,816; Feb. 22; v. 283; p. 753.
- Home weaving works, Chicago, Ill. Carpets and rugs, not including felt and fur rugs and rubber mats. No. 148,438; Nov. 15.
- Home Woolen Mills, Eaton Rapids, Mich. Yarns. No. 149,112; Dec. 6.
- Homer Furnace Company, Coldwater, Mich. Coal, wood, and gas furnaces. No. 143,249; May 24; v. 286; p. 856.
- Homer Furnace Company, Coldwater, Mich. Sheet-metal casings for coal, wood, and gas furnaces. No. 143,851; June 14; v. 287; p. 400.
- Homer, William, Old Hill, England. Harrows. No. 139,552; Feb. 8; v. 283; p. 351.
- Homestead Growers' Assn., Homestead, Fla. Fresh citrus fruits. No. 139,940; Feb. 22; v. 283; p. 759.
- Homestead Phonograph & Violin Manufacturing Company, Homestead, Pa. Phonographs. No. 144,582; July 12; v. 288; p. 424.
- Hommel, William H., Sandusky, Ohio. Non-alcoholic wines. No. 143,370; May 31; v. 286; p. 1050.
- Honeycut, Anderson D., Gatesville, Tex. Soap for cleaning and polishing eyeglasses, spectacles, and goggles. No. 144,229; June 28; v. 287; p. 775.
- Hood, Charles F., Connellsville, Pa. Containers for disinfecting substances. No. 142,571; May 17; v. 286; p. 628.
- Hood, H. P., & Sons, Inc., Boston, Mass. Ice-cream. No. 144,230; June 28; v. 287; p. 775.
- Hood, H. P., & Sons, Inc., Boston, Mass. Carbonated soft drinks and syrups. No. 149,113; Dec. 6.
- Hood River Apple Vinegar Co., Hood River, Oreg. Cider and carbonated beverage. No. 147,055; Sept. 27; v. 290; p. 808.
- Hood River Apple Vinegar Co., Hood River, Oreg. Vinegar. No. 148,583; Nov. 15.
- Hood River Canning Company, Hood River, Oreg. Canned fruits. No. 141,387; Apr. 19; v. 285; p. 567.
- Hood River Spray Company, Hood River, Oreg. Certain spraying compounds. No. 146,771; Sept. 20; v. 290; p. 634.
- Hood Rubber Company, Watertown, Mass. Rubber vehicle-tires. No. 143,248; May 24; v. 286; p. 856.
- Hood Rubber Company, Watertown, Mass. Rubber boots and shoes. No. 144,527; July 5; v. 288; p. 199.
- Hood Rubber Company, Watertown, Mass. Rubber boots and shoes, rubber overshoes, and rubber-soled canvas shoes. No. 146,253; Sept. 6; v. 290; p. 200.
- Hood Rubber Company, Watertown, Mass. Rubber boots and shoes. No. 147,332; Oct. 11.
- Hoofol Manufacturing Company Inc., Philadelphia, Pa. Oil dressing for belting. No. 143,371; May 31; v. 286; p. 1050.
- Hooker Electrochemical Company, Niagara Falls, N. Y. Chemicals. No. 139,817; Feb. 22; v. 283; p. 753.
- Hooper Sons' Manufacturing Company, Philadelphia, Pa. Knitted, netted, and textile fabrics. No. 139,324; Feb. 1; v. 283; p. 169.
- Hoosier Milling Co., Inc., Indianapolis, Ind. Cake-flour. No. 143,047; May 24; v. 286; p. 847.
- Hootch Mfg. Co., Fort Wayne, Ind. Non-alcoholic, non-cereal maltless beverage. No. 148,439; Nov. 15.
- Hooton Chocolate Company, Newark, N. J. Sweet chocolate, nut-bars, milk-chocolates, &c. No. 141,575; Apr. 26; v. 285; p. 780.
- Hooton Cocoa Company, Newark, N. J. Sweet chocolate. No. 148,859; Nov. 29.
- Hoover Candy Co., Provo, Utah. Candy, peanuts in their natural state, candied popcorn. No. 139,818; Feb. 22; v. 283; p. 753.
- Hoover Hosiery Co., Concord, N. C. Ladies' and men's hosiery. No. 149,114; Dec. 6.
- Hoover & Strong, Inc., Buffalo, N. Y. Mercury used in dentistry. No. 148,440; Nov. 15.
- Hope Webbing Company Inc., Pawtucket, R. I. Elastic webbing. No. 149,950; Dec. 27.
- Hopkins, J. L., & Co., New York, N. Y. Shampooing preparation. No. 147,858; Nov. 1.
- Hopkins, Lee R., Baltimore, Md. Metal-polish. No. 148,080; Nov. 8.
- Horback, Peter A., Cincinnati, Ohio. Malt extract. No. 140,400; Mar. 15; v. 284; p. 581.
- Horner's Incorporated, Chicago, Ill. Rubber stamps. No. 144,797; July 19; v. 288; p. 618.
- Horine & Bowery Company, Chicago, Ill. Imitation vanilla extract. No. 149,406; Dec. 13.



- Horizontal Hydraulic Hoist Company, Detroit, Mich. Dumping units. No. 138,907; Jan. 11; v. 282; p. 381.
- Horner, Frank W., Limited, Montreal, Quebec, Canada. Effervescent salts. No. 138,973; Jan. 18; v. 282; p. 554.
- Horrockses, Crewdson & Company, Limited, Manchester, England. Cotton piece goods. No. 139,995; Mar. 1; v. 284; p. 174.
- Horsman, E. I., & Aetna Doll Co. Inc., New York, N. Y. Dolls. No. 148,860; Nov. 29.
- Horton Manufacturing Company, The, Bristol, Conn. Fishing-rods. No. 146,038; Aug. 23; v. 289; p. 792.
- Horzsa, György, New York, N. Y. Medicinal salve for certain named purposes. No. 141,969; May 3; v. 286; p. 185.
- Hospital Specialty Company, The, Cleveland, Ohio. Sanitary napkins. No. 146,483; Sept. 6; v. 290; p. 213.
- Hot Lunch Box Company, Milwaukee, Wis. Lunch-boxes. No. 149,582; Dec. 13.
- Hotze, Henry, & Sons Company, St. Louis, Mo. Saddles and bridles and leather parts of the same. No. 139,326; Feb. 1; v. 283; p. 169.
- Houbigant, Inc. (See Parfumerie Houbigant, assignor.)
- Houbigant, Inc., New York, N. Y. Soap. No. 140,834; Mar. 29; v. 284; p. 944.
- Houbigant, Inc., New York, N. Y. Certain toilet preparations. No. 147,112; Oct. 4.
- Houdlett, Albert, & Sons, Inc., Brooklyn, N. Y. Certain musical instruments and parts thereof. No. 149,407; Dec. 13.
- Houghton, E. F., & Co., Philadelphia, Pa. Leather belting. No. 138,640; Jan. 4; v. 282; p. 187.
- Houghton, E. F., & Co., Philadelphia, Pa. Leather belting. No. 140,835; Mar. 29; v. 284; p. 944.
- Houghton, E. F., & Co., Philadelphia, Pa. Lubricating-oils. No. 143,852; June 14; v. 287; p. 400.
- Houghton, E. F., & Co., Philadelphia, Pa. Lubricating-oils. Nos. 146,254-5; Sept. 6; v. 290; p. 200.
- Houghton, E. F., & Co., Philadelphia, Pa. Metal-cutting oils. No. 146,256; Sept. 6; v. 290; p. 200.
- Houghton, E. F., & Co., Philadelphia, Pa. Core-oils. No. 146,484; Sept. 6; v. 290; p. 213.
- Houghton, E. F., & Co., Philadelphia, Pa. Metal-cutting oils. Nos. 146,773-4; Sept. 20; v. 290; p. 634.
- Houghton, E. F., & Co., Philadelphia, Pa. Preparation of an oily nature for treating textile fabrics. No. 146,998; Sept. 27; v. 290; p. 804.
- House Brothers, Plant City, Fla. Fresh citrus fruits. No. 138,641; Jan. 4; v. 282; p. 187.
- House of Willis Inc., The, New York, N. Y. Pipes, cigarette-holders, tobacco-pouches. No. 138,642; Jan. 4; v. 282; p. 187.
- Houser, Jacob, Oakland, Calif. Preparation for treatment of the hair and scalp. No. 138,820; Jan. 11; v. 282; p. 376.
- Howard Bros. Chemical Co., Buffalo, N. Y. Face-cream, face and talcum powders. No. 141,970; May 3; v. 286; p. 185.
- Howard Bros. Chemical Co., Buffalo, N. Y. Soap. No. 142,572; May 17; v. 286; p. 628.
- Howard Bros. Chemical Co., Buffalo, N. Y. Soap. No. 148,081; Nov. 8.
- Howard, F. A., Laboratories, Inc., Boston, Mass. Leather-preservative. No. 142,573; May 17; v. 286; p. 628.
- Howard, Frank Mfg. Co., The, Atchison, Kans. Articles of clothing. No. 140,401; Mar. 15; v. 284; p. 581.
- Howard Iron Works, Buffalo, N. Y. Nut forming, burring, tapping, &c., machines. No. 140,836; Mar. 29; v. 284; p. 944.
- Howard Iron Works, Buffalo, N. Y. Hydrants. Nos. 144,238-9; June 28; v. 287; p. 775.
- Howard, John A., New Brighton, N. Y. Coffee and tea pots. No. 141,142; Apr. 12; v. 285; p. 381.
- Howard, Savanna V., Chicago, Ill. Hair-tonic. No. 138,824; Jan. 11; v. 282; p. 376.
- Howard & Scott, New York, N. Y. Preparation for cleaning glass. No. 142,574; May 17; v. 286; p. 628.
- Howard Specialties Company, Inc., New York, N. Y. Safety-razors and hair-trimmers. No. 145,116; July 26; v. 288; p. 814.
- Howard Specialties Company Inc., New York, N. Y. Mechanical razor-stroppers. No. 146,257; Sept. 6; v. 290; p. 200.
- Howe, H. B., Company, The, Cincinnati, Ohio. Display-shelves. No. 149,115; Dec. 6.
- Howe, M., Company, San Francisco, Calif. Hair-nets. No. 140,611; Mar. 22; v. 284; p. 745.
- Howe Rubber Corporation, New Brunswick, N. J. Automobile tires and tubes of rubber. No. 149,583; Dec. 13.
- Howell Electric Motors Company, Howell, Mich. Electric generators and motors. No. 143,050; May 24; v. 286; p. 847.
- Howell, Henry, & Company Limited, London, England. Walking sticks and canes, umbrella sticks and handles, &c. No. 149,783; Dec. 20.
- Howie Company, The, Detroit, Mich. Skylights. No. 138,908; Jan. 11; v. 282; p. 381.
- Howland and Dewey Company, Los Angeles, Calif. Photographic prints. No. 139,819; Feb. 22; v. 283; p. 753.
- Howlett & Hockmeyer Co., Inc., New York, N. Y. Cotton fabrics in the piece. No. 139,456; Feb. 1; v. 283; p. 175.
- Howlett & Hockmeyer Co. Inc., New York, N. Y. Waterproofed cotton fabric in the piece. No. 139,737; Feb. 15; v. 283; p. 543.
- Howlett & Hockmeyer Co. Inc., New York, N. Y. Cotton fabrics in the piece. No. 149,951; Dec. 27.
- Hoy, F. P., Inc., New York, N. Y. Corsets. No. 148,669; Nov. 22.
- Hoyland Flour Mills Company, Kansas City, Mo. Wheat-flour. No. 140,837; Mar. 29; v. 284; p. 944.
- Hoyt, F. M., Shoe Company, Manchester, N. H. Leather boots and shoes. No. 148,441; Nov. 15.
- Hoyt, Frank H., Sharon, Pa. Medicinal and pharmaceutical preparations. No. 141,971; May 3; v. 286; p. 185.
- Hoyt, Howard H., Candy Co., Chicago, Ill. Candy. No. 146,775; Sept. 20; v. 290; p. 634.
- Hoyt, Howard H., Candy Co., Chicago, Ill. Candy. No. 146,999; Sept. 27; v. 290; p. 804.
- Hoyt, Howard H., Candy Co., Chicago, Ill. Candy. No. 148,861; Nov. 29.
- Hoyt Metal Company, St. Louis, Mo. Babbitt metal. Nos. 142,275-6; May 10; v. 286; p. 404.
- Hoyt Metal Company, St. Louis, Mo. Babbitt metal. Nos. 144,122-3; June 21; v. 287; p. 587.
- Hoyt, Peggy, Inc., New York, N. Y. Perfume, toilet water, cold-cream, face-powder, &c. No. 139,820; Feb. 22; v. 283; p. 753.
- Hoyt's Service, Inc., New York, N. Y. Monograph or memorial as to the method of conducting the business of individual customers. No. 138,974; Jan. 18; v. 282; p. 554.
- Hubbuck, Thos., & Son, Limited, London, England. Paints and pigments. No. 144,904; July 19; v. 288; p. 622.
- Hubbuck, Thos., & Son Limited, London, England. Certain cleaning-powders and soap. No. 148,082; Nov. 8.
- Hubbuck, Thos., & Son Limited, London, England. Fullers' earth, fossil earth, and crude tar. No. 148,442; Nov. 15.
- Huber Ice Cream Company, The, Bridgeport, Conn. Ice-cream. No. 146,485; Sept. 6; v. 290; p. 213.
- Hudson, A., and Sons, Kokomo, Ind. Medicine for eczema. No. 141,972; May 3; v. 286; p. 185.
- Hudson & Boas, New York, N. Y. Cotton goods in the piece. No. 142,575; May 17; v. 286; p. 628.
- Hudson, Charles C., Greensboro, N. C. Overalls, work-shirts, work-jackets, and work-pants. No. 142,277; May 10; v. 286; p. 404.
- Hudson Cigar Company, Beallsville, Ohio. Cigars. No. 142,576; May 17; v. 286; p. 628.
- Hudson Coffee Mills, Inc., New York, N. Y. Tea. No. 138,975; Jan. 18; v. 282; p. 554.
- Hudson Hosiery Co., Waterbury, Conn. Hosiery. No. 145,117; July 26; v. 288; p. 814.
- Hudson, J. L., Co., The, Detroit, Mich. Knit underwear for women. No. 144,798; July 19; v. 288; p. 618.
- Hudson, John J., Baltimore, Md. Medicinal preparation for neuritis. No. 140,145; Mar. 8; v. 284; p. 365.
- Hudson, John T., Chicago, Ill. Non-alcoholic, non-cereal, maltless beverage. No. 140,402; Mar. 15; v. 284; p. 582.
- Hudson Mechanical Rubber Co., Trenton, N. J., and New York, N. Y. Hose, belting, gaskets, packings, valves, and tires. Nos. 142,206-9; May 3; v. 286; p. 195.
- Hudson Motor Specialties Company, Philadelphia, Pa. Automobile accessory. No. 140,041; Mar. 1; v. 284; p. 176.
- Hudson Motor Specialties Company, Philadelphia, Pa. Frame extension for worm-driven trucks and slip-joint propeller-shafts complementary thereto. No. 145,695; Aug. 16; v. 289; p. 594.
- Hudson Narrow Fabric Co., Hudson, Mass. Textile tapes. No. 142,577; May 17; v. 286; p. 628.
- Hugg-Tite Patch Co., Wellston, Ohio. Sheet-rubber patches. No. 147,223; Oct. 4.
- Huggins Candy Co., Nashville, Tenn. Cough-drops. No. 139,821; Feb. 22; v. 283; p. 753.
- Hugh Wallace Company, Detroit, Mich. Knit woolen cloth in the piece and overcoatings for clothing. No. 143,250; May 24; v. 286; p. 856.
- Hughes & Adams, Inc., Seattle, Wash. Coffee. No. 142,578; May 17; v. 286; p. 628.
- Hughes-Keenan Company, Mansfield, Ohio. Metal toilet partitions. No. 149,952; Dec. 27.
- Hughey, Fannie E., Chicago, Ill. Musical-instruction outfit. No. 145,374; Aug. 2; v. 289; p. 179.
- Huhn Manufacturing Company, New York, N. Y. Piston-rod packings. No. 139,682; Feb. 8; v. 283; p. 357.
- Hull, Ella, Idaho Springs, Colo. Healing-cream for piles, skin eruptions, sores, &c. No. 141,973; May 3; v. 286; p. 185.
- Humphreys Homeopathic Medicine Co., New York, N. Y. Veterinary medicines. No. 140,838; Mar. 29; v. 284; p. 944.
- Humphreys, James W., Alva, Okla. Medicinal preparation for external use. No. 139,145; Jan. 25; v. 281; p. 734.
- Huner, John T., Inc., New York, N. Y. Matches. No. 138,643; Jan. 4; v. 282; p. 187.
- Hunnewell, John A., Lowell, Mass. Granulated soap. No. 144,800; July 19; v. 288; p. 618.
- Hunstock, R. H., Chemical Co., St. Louis, Mo. Insect-powder. No. 145,694; Aug. 16; v. 289; p. 594.
- Hunt, Allen, Crooksville, Ohio. Medical preparation for hog-cholera. No. 138,826; Jan. 11; v. 282; p. 376.
- Hunt, C. Howard, Pen Company, Camden, N. J. Metallic pen-points. No. 141,759; Apr. 26; v. 285; p. 788.



*Alphabetical list of registrants of trade-marks—Continued.*

- Hunt, C. Howard, Pen Co., Camden, N. J. Metallic pen-points. No. 144,232; June 28; v. 287; p. 775.
- Hunt, C. Howard, Pen Company, Camden, N. J. Drawing and lettering ink. No. 143,048; May 24; v. 286; p. 847.
- Hunt, C. W., Company Inc., West New Brighton, N. Y. Cars and couplings. No. 144,584; July 12; v. 288; p. 424.
- Hunter, Francis M., Portland, Oreg. Medicinal salve. No. 148,670; Nov. 22.
- Hunter, H. B., Co. Inc., Norfolk, Va. Root-beer and ginger-ale. No. 142,278; May 10; v. 286; p. 404.
- Hunter, H. B., Co. Inc., Norfolk, Va. Syrups used in making non-alcoholic maltless soda-fountain beverages. No. 142,279; May 10; v. 286; p. 404.
- Hunter, H. B., Co., Inc., Norfolk, Va. Syrups for food products, canned fruits, bouillons, &c. No. 143,648; June 7; v. 287; p. 184.
- Hunter Mfg. & Com. Co., New York, N. Y. Cotton piece goods. No. 139,553; Feb. 8; v. 283; p. 351.
- Hunter, Robert S., San Francisco, Calif. Canned fish, fruits, and vegetables. No. 139,996; Mar. 1; v. 284; p. 174.
- Huntington & Guerry Inc., Greenville, S. C. Electrical apparatus. No. 144,801; July 19; v. 288; p. 618.
- Huntington Shoe and Leather Company, Huntington, Ind. Boots and shoes of leather, or partly of leather and cloth. No. 148,671; Nov. 22.
- Huntingburg Wagon Works, Huntingburg, Ind. Farm and log wagons, trucks, buggies, runabouts, surreys. No. 139,080; Jan. 18; v. 282; p. 559.
- Hurd, George B., & Co., New York, N. Y. Playing-cards. No. 148,862; Nov. 29.
- Hurst, Percy E., South Croydon, England. Card game. No. 149,953; Dec. 27.
- Hurty-Peck & Company, Indianapolis, Ind. Non-alcoholic maltless beverage and syrup for making same. No. 147,491; Oct. 18.
- Hurty-Peck & Company, Indianapolis, Ind. Non-alcoholic maltless beverage. No. 148,584; Nov. 15.
- Hurwitz, Frank, Baltimore, Md. Butter and cheese. No. 142,878; May 17; v. 286; p. 639.
- Hurwitz, Frank, Baltimore, Md. Butter. No. 143,051; May 24; v. 286; p. 847.
- Hurwitz, Nathan, New York, N. Y. Hair-dye. No. 141,974; May 3; v. 283; p. 185.
- Husband, Catharine H., Philadelphia, Pa. Bottled magnesia. No. 145,967; Aug. 23; v. 289; p. 788.
- Huston, James K., McKinney, Ky. Liniment for the treatment of burns, sprains, sores, &c. No. 146,106; Aug. 30; v. 289; p. 1014.
- Hutchison, B. M., Plymouth, England. Game apparatus. No. 149,408; Dec. 13.
- Hutchinson, George, Des Moines, Iowa. Salve or ointment for eczema. No. 140,839; Mar. 29; v. 284; p. 944.
- Huyck, F. C., & Sons, Albany, N. Y. Scarfs, stockings, socks, sweaters of textile fabrics. No. 147,333; Oct. 11.
- Huyck, F. C., & Sons, Albany, N. Y. Certain rugs, blankets, couch and bed covers, &c. No. 149,409; Dec. 13.
- Huyck, F. C., & Sons, Albany, N. Y. Woolen piece goods, suitings, and overcoating of textile fabric. No. 149,954; Dec. 27.
- Hyde, Geo. E., Campbell, Calif. Canned and preserved fruits. No. 145,696; Aug. 16; v. 289; p. 594.
- Hyde Manufacturing Company, Southbridge, Mass. Knives, edge-tools, handles. No. 144,585; July 12; v. 288; p. 424.
- Hyde Windlass Company, Bath, Me. Windlasses, hoisting-engines, deck-winchies, capstans, &c. No. 140,403; Mar. 15; v. 284; p. 582.
- Hyde Windlass Company, Bath, Me. Hand, steam, and hydraulic steering-gears for ships' propellers. No. 140,612; Mar. 22; v. 284; p. 745.
- Hydraulic Steel Company, The, Cleveland, Ohio. Rolled-steel sheets and rolled steel in various forms and finishes. Nos. 149,410-11; Dec. 13.
- Hydrex Corporation, The, New York, N. Y.; Rahway, N. J.; Chicago, Ill., and Washington, D. C. Certain construction materials. No. 147,056; Sept. 27; v. 290; p. 808.
- Hy-Gu Manufacturing Co., Lynchburg, Va. Cleaning compound for rugs, blankets, clothes, &c. No. 138,825; Jan. 11; v. 282; p. 376.
- Hygrade Knitting Co., Inc., New York, N. Y. Knitted articles of wearing-apparel. No. 144,320; June 28; v. 287; p. 781.
- Hygrade Provision Company, Inc., Brooklyn, N. Y. Foods. No. 142,579; May 17; v. 286; p. 628.
- Hyland, George H., Los Angeles, Calif. Medicated salve. No. 140,840; Mar. 29; v. 284; p. 944.
- Hyman & Oppenheim, New York, N. Y. Hair-nets. No. 139,327; Feb. 1; v. 283; p. 169.
- Hyman & Oppenheim, New York, N. Y. Hair-dressing. No. 146,776; Sept. 20; v. 290; p. 634.
- Hyman & Oppenheim, New York, N. Y. Commodity for removing dye from hair. No. 147,000; Sept. 27; v. 290; p. 805.
- Hymes, Abraham, New York, N. Y. Yarns. No. 148,863; Nov. 29.
- Hymes, Samuel, & Sons, New York, N. Y. Cotton piece goods. No. 138,644; Jan. 4; v. 282; p. 187.
- Hysan Manufacturing Co., Chicago, Ill. Cleansing compound for household use. No. 148,864; Nov. 29.
- Ibberson, J. W., Sheffield, England. Certain cutlery and tools. No. 147,779; Nov. 1.
- Ichter, John H., Tamaqua, Pa. Shaving and healing lotion. No. 148,083; Nov. 8.
- Ideal Cement Stone Company, Omaha, Nebr. Cement blocks. No. 145,697; Aug. 16; v. 289; p. 594.
- Ideal Coated Paper Company, Brookfield, Mass. Gummed paper. No. 145,118; July 26; v. 288; p. 814.
- Ideal Cocoa & Chocolate Co., Lititz, Pa., and New York, N. Y. Cocoa. Nos. 141,760-1; Apr. 26; v. 285; p. 788.
- Ideal Cocoa and Chocolate Co., New York, N. Y., and Lititz, Pa. Chocolate. No. 143,251; May 24; v. 286; p. 857.
- Ideal Cocoa and Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate coating. No. 144,802; July 19; v. 288; p. 618.
- Ideal Disinfectant Co., Newark, N. J. Disinfectants and deodorants. No. 138,976; Jan. 18; v. 282; p. 554.
- Ideal Disinfectant Corporation, New York, N. Y. Disinfectants and deodorants. No. 140,146; Mar. 8; v. 284; p. 365.
- Ideal Fire Extinguisher Co., Providence, R. I. Hand fire-extinguishers. No. 149,955; Dec. 27.
- Ideal Furniture Company, Indianapolis, Ind. Musical instruments—namely, phonographs or talking-machines. No. 139,328; Feb. 1; v. 283; p. 170.
- Ideal Hosiery Mills, Maryville, Tenn. Hosiery. No. 143,853; June 14; v. 287; p. 400.
- Ideal Laboratories Company, Chicago, Ill. Toilet preparations. Nos. 141,975-6; May 3; v. 286; p. 185.
- Ignition Company of America, New York, N. Y. Spark-plugs. No. 148,084; Nov. 8.
- Igstædter, Gus., New York, N. Y. Cotton piece goods. No. 139,822; Feb. 22; v. 283; p. 753.
- Ihnat, Michael J., Chicago, Ill. Preparation for treatment of rheumatism. No. 140,486; Mar. 15; v. 284; p. 584.
- Ilaria Brothers, Newark, N. J. Medicinal and toilet preparations. No. 143,052; May 24; v. 286; p. 847.
- Illinois Carbon & Ribbon Co., Inc., Chicago, Ill. Carbon-paper. No. 144,803; July 19; v. 288; p. 619.
- Illinois Razor Strop Company, Chicago, Ill. Razor-strops. Nos. 141,143-4; Apr. 12; v. 285; p. 381.
- Illinois Razor Strop Company, Chicago, Ill. Razor-strops. No. 149,116; Dec. 6.
- Illinois Watch Case Company, Elgin, Ill. Watch-movements. No. 144,804; July 19; v. 288; p. 619.
- Illinois Wire & Cable Company, Sycamore, Ill. Insulated wire and cable. No. 144,418; July 5; v. 288; p. 193.
- Imperial Belting Company, Chicago, Ill. Belting, hose, and packings. No. 139,823; Feb. 22; v. 285; p. 753.
- Imperial Belting Company, Chicago, Ill. Belting, hose, machinery packing, &c. No. 141,145; Apr. 12; v. 285; p. 381.
- Imperial Brush Company, Inc., New York, N. Y. Tooth-brushes and nail-brushes. No. 148,085; Nov. 8.
- Imperial Candy Company, Seattle, Wash. Candy. No. 147,113; Oct. 4.
- Imperial Dyewood Corporation, Lynchburg, Va., and New York, N. Y. Certain dyewood and tanning extracts. No. 147,114; Oct. 4.
- Imperial Glass Company, Bellaire, Ohio. Certain glass-ware. No. 145,698; Aug. 16; v. 289; p. 594.
- Imperial Hosiery Co., Pittsburgh, Pa. Boys' stockings. No. 146,258; Sept. 6; v. 290; p. 200.
- Imperial Pharmaceutical Company, New York, N. Y. Tonic for hair and scalp, dandruff-remover, and germicide. No. 144,188; June 28; v. 287; p. 774.
- Improved Chilling and Transport Limited, London, England. Chilled fresh meats. No. 138,827; Jan. 11; v. 282; p. 376.
- Improved Office Partition Company, New York, N. Y. Removable or knockdown interior partitions and railings and removable interior trim. No. 142,580; May 17; v. 286; p. 628.
- Independent Breweries Company, The, St. Louis, Mo. Cereal malt beverage. No. 148,443; Nov. 15.
- Independent Breweries Company, St. Louis, Mo. Root-beer. No. 149,956; Dec. 27.
- Independent Brewing Company of Pittsburgh, Pittsburgh, Pa. Non-alcoholic maltless beverage. No. 139,555; Feb. 8; v. 283; p. 351.
- Inderrieden Canning Co., Chicago, Ill. Canned vegetables. No. 146,486; Sept. 6; v. 290; p. 213.
- Inderrieden Canning Co., Chicago, Ill. Canned vegetables. No. 148,585; Nov. 15.
- Inderrieden Canning Co., Chicago, Ill. Canned vegetables. No. 149,680; Dec. 20.
- India Company, The, Newark, N. J. Chewing-gum. No. 147,001; Sept. 27; v. 290; p. 805.
- India Tire & Rubber Co., The, Mogadore, Ohio. Tires and inner tubes. No. 145,508; Aug. 2; v. 289; p. 185.
- India Tire and Rubber Company, The, Akron and Mogadore, Ohio. Tires, tubes, tire-repair materials and accessories. No. 146,648; Sept. 13; v. 290; p. 427.
- India Tire & Rubber Co., Mogadore, Ohio. Rubber cement and rubber gum and gum for repairing cuts in the treads of rubber tires. No. 148,086; Nov. 8.
- India Tire and Rubber Company, The, Akron and Mogadore, Ohio. Pneumatic vehicle-tires composed of rubber or fabric and rubber and inner tubes. No. 148,445; Nov. 15.



- Indian Head Mills of Ala., Cordova, Ala. Cotton sheetings, drills, and flannels in the piece. No. 149,314; Dec. 6.
- Indiana Aluminum Ware Company, Elkhart, Ind. Metal cooking and household utensils. No. 142,581; May 17; v. 286; p. 628.
- Indiana Chemical & Manufacturing Company, Indianapolis, Ind. Lithographic-ink reducer. No. 140,404; Mar. 15; v. 284; p. 582.
- Indiana Condensed Milk Company, Indianapolis, Ind. Milk products. No. 139,554; Feb. 8; v. 283; p. 351.
- Indiana Condensed Milk Company, Indianapolis, Ind. Evaporated milk. No. 139,941; Feb. 22; v. 283; p. 759.
- Indiana Indestructible Paint Co., Chicago, Ill. Paints and painters' materials. No. 140,147; Mar. 8; v. 284; p. 365.
- Indiana Indestructible Paint Co., Chicago, Ill. Paints. No. 146,487; Sept. 6; v. 290; p. 213.
- Indiana Indestructible Paint Co., Chicago, Ill. Flat paint for finishing interior walls, &c. No. 148,865; Nov. 29.
- Indiana Separator Company, The, Indianapolis, Ind. Battery-separators. Nos. 148,087-8; Nov. 8.
- Indiana Truck Corporation, Marion, Ind. Motor-trucks. No. 140,042; Mar. 1; v. 284; p. 177.
- Indianapolis Glove Company, Indianapolis, Ind. Fabric gloves and mittens. No. 143,053; May 24; v. 286; p. 847.
- Industrial Chemical Company, New York, N. Y. Certain chemical and medicinal preparations. No. 148,866; Nov. 29.
- Industrial Controller Company, Milwaukee, Wis. Electrical-motor starters and controllers. No. 145,381; Aug. 2; v. 289; p. 179.
- Industrial Cotton Oil Properties, Boston, Mass., assignor to The American Cotton Oil Company. Cotton-seed meal. No. 146,259; Sept. 6; v. 290; p. 200.
- Industrial Laboratories, Inc., Fort Smith, Ark. Sweeping compound. No. 140,405; Mar. 15; v. 284; p. 582.
- Industrial Paint Company, Leetsdale and Fair Oaks, Pa. Dry, paste, and ready-mixed paints. Nos. 148,446-7; Nov. 15.
- Industrial Paint Company, The, Milwaukee, Wis. Ready-mixed paint. No. 149,957; Dec. 27.
- Ingalls Brothers, Manchester, N. H. Medicine for the treatment of asthma. No. 148,867; Nov. 29.
- Ingalls Stone Company, Bedford, Ind. Cut stone for building purposes. No. 142,879; May 17; v. 286; p. 639.
- Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Machinery and tools. No. 139,146; Jan. 25; v. 282; p. 734.
- Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Steam and liquid-vapor condensers. No. 141,040; Mar. 29; v. 284; p. 952.
- Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Machinery, tools, and parts thereof. No. 146,488; Sept. 6; v. 290; p. 213.
- Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Certain machinery and tools. No. 149,117; Dec. 6.
- Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Pneumatic motor-boists. No. 149,958; Dec. 27.
- Inland American Tractor Company, Eau Claire, Wis. Tractors. No. 146,260; Sept. 6; v. 290; p. 200.
- Inner Circle Corporation, Baltimore, Md., and New York, N. Y. Malt beverage. No. 145,382; Aug. 2; v. 289; p. 179.
- Insel Company, The, Newark, N. J. Non-breakable lamp-lenses. No. 149,412; Dec. 13.
- International Battery Co., Inc., New York, N. Y. Electrical pocket-flashlights. No. 140,841; Mar. 29; v. 284; p. 944.
- International Bedding Co. Inc., Baltimore, Md. Mattresses, pillows, and box-springs. Nos. 147,334-40; Oct. 11.
- International Bedding Co. Inc., Baltimore, Md. Mattresses, pillows, and box-springs. Nos. 148,448-9; Nov. 15.
- International Chemical Company, The, Cleveland, Ohio. Chemical insect-exterminals. No. 146,261; Sept. 6; v. 290; p. 200.
- International Clearing House, Inc., New York, N. Y. Hosiery and underwear. No. 140,842; Mar. 29; v. 284; p. 944.
- International Clearing House, Inc., New York, N. Y. Cotton, wool, silk, or mixture piece goods. No. 141,978; May 3; v. 286; p. 186.
- International Coal & Mining Co., East St. Louis, Ill. Bituminous coal. No. 145,699; Aug. 16; v. 289; p. 594.
- International Coal Products Corporation, Bristol, Va., and New York, N. Y. Briquets made from coal. Nos. 147,624-5; Oct. 25.
- International Company, The, Baltimore, Md. Fruit emulsions, paste, pie-fillers, &c. No. 143,649; June 7; v. 287; p. 184.
- International Company, The, Baltimore, Md. Coloring-powders for foods. No. 143,650; June 7; v. 287; p. 184.
- International Company, The, Baltimore, Md. Egg-white preparation used for making white cake, meringues, &c. Nos. 144,805-6; July 19; v. 288; p. 619.
- International Company, The, Baltimore, Md. Pamphlets and booklets published periodically. No. 148,450; Nov. 15.
- International Consolidated Chemical Corporation, Inc., New York, N. Y. Toilet powders. No. 139,683; Feb. 8; v. 283; p. 357.
- International Consolidated Chemical Corporation, Inc., New York, N. Y. Medicinal preparations for colds, nasal catarrh, headaches, &c. No. 140,148; Mar. 8; v. 284; p. 365.
- International Consolidated Chemical Corporation, New York, N. Y. General tonic. No. 140,843; Mar. 29; v. 284; p. 944.
- International Cork Company, Brooklyn, N. Y. Bricks, blocks, slabs, &c. No. 138,645; Jan. 4; v. 282; p. 187.
- International Cork Company, Brooklyn, N. Y. Closures for bottles and the like. No. 141,979; May 3; v. 286; p. 186.
- International Cork Company, Brooklyn, N. Y. Cork compositions used as a covering for rolls, cork innersoling for shoes, &c. No. 144,807; July 19; v. 288; p. 619.
- International Corn Products Corporation, Detroit, Mich. Popcorn. No. 138,646; Jan. 4; v. 282; p. 187.
- International Correspondence Schools, Scranton, Pa. Periodical issued monthly. No. 147,341; Oct. 11.
- International Corset Company, Aurora, Ill. Corsets. No. 148,672; Nov. 22.
- International Devices Company, New York, N. Y. X-ray apparatus, electrical time-switches, speed-governors, &c. No. 144,808; July 19; v. 288; p. 619.
- International Drug Company, Wilmington, Del. Wine of cod-liver oil. No. 144,660; July 12; v. 288; p. 427.
- International Drug Company, Wilmington, Del. Certain medicinal, toilet, and chemical preparations. No. 148,868; Nov. 29.
- International Drug Company, Wilmington, Del. Toilet soap. No. 149,959; Dec. 27.
- International Harvester Company, Chicago, Ill. Plows and parts thereof. No. 140,844; Mar. 29; v. 284; p. 944.
- International Harvester Company, Chicago, Ill. Agricultural implements. No. 140,845; Mar. 29; v. 284; p. 944.
- International Harvester Company, Chicago, Ill. Agricultural machinery and parts thereof. No. 142,582; May 17; v. 286; p. 628.
- International Harvester Company, Chicago, Ill. Agricultural implements. Nos. 144,586-7; July 12; v. 288; p. 424.
- International Harvester Company, Chicago, Ill. Certain agricultural machinery and parts thereof. No. 145,119; July 26; v. 288; p. 814.
- International Heater Company, Utica, N. Y. Warm-air heaters and furnaces. No. 146,649; Sept. 13; v. 290; p. 427.
- International Housing Corporation, Jersey City, N. J., and New York, N. Y. Metal buildings and metal-building sections. No. 149,118; Dec. 6.
- International India Rubber Corporation, South Bend, Ind. Rubber tires. Nos. 138,647-8; Jan. 4; v. 282; p. 187.
- International Linen Company, Wilmington, Del.; Detroit, Mich., and Boston, Mass. Linen thread. No. 144,189; June 28; v. 287; p. 774.
- International Magazine Company, New York, N. Y. Bi-weekly magazine or pamphlet. No. 148,089; Nov. 8.
- International Magazine Company, New York, N. Y. Monthly magazine. No. 149,119; Dec. 6.
- International Mfg. Co., Phillips, Me. Toothpicks. No. 146,579; Sept. 13; v. 290; p. 422.
- International Milling Company, New Prague, Minn. Wheat-flour. No. 149,413; Dec. 13.
- International Motor Co., New York, N. Y. Periodical monthly publication for motor-truck owners and operators. No. 140,149; Mar. 8; v. 284; p. 365.
- International Motor Company, New York, N. Y. Motor-trucks. No. 138,761; Jan. 4; v. 282; p. 192.
- International Nickel Co., The, New York, N. Y. Metal alloy containing nickel and copper. No. 142,583; May 17; v. 286; p. 628.
- International Paper Company, New York, N. Y. Sulfite bond-paper. No. 141,146; Apr. 12; v. 285; p. 381.
- International Printing Plate Co., Inc., Arlington, N. J. Printing-plates ready for printing. No. 143,372; May 31; v. 286; p. 1050.
- International Rock Plaster Company, Jersey City, N. J., and Columbus, Ohio. Wall-plaster. No. 19,402; renewed Apr. 28, 1921; Rock Plaster Corporation of New York.
- International Shoe Co., St. Louis, Mo. Shoes made of leather. No. 143,651; June 7; v. 287; p. 184.
- International Shoe Company, St. Louis, Mo. Men's, women's, and children's shoes of leather, rubber, fabric, &c. No. 148,869; Nov. 29.
- International Silver Company, Meriden and Waterbury, Conn. Silver-plated flat-ware. No. 144,809; July 19; v. 288; p. 619.
- International Silver Company, Meriden and Waterbury, Conn. Silver-plated flat-ware. No. 147,780; Nov. 1.
- International Sugar Feed Co., Minneapolis, Minn. Horse feed. No. 138,977; Jan. 18; v. 282; p. 554.
- International Sugar Feed Co., Minneapolis, Minn. Mixed feeds for live stock and poultry. No. 140,150; Mar. 8; v. 284; p. 365.
- International Sugar Feed Co., Minneapolis, Minn. Dairy feed. No. 140,708; Mar. 22; v. 284; p. 750.



*Alphabetical list of registrants of trade-marks—Continued.*

- International Tag Company, Chicago, Ill. Shipping-tags. No. 146,489; Sept. 6; v. 290; p. 213.
- International Tailoring Company, Chicago, Ill. Men's suits and overcoats. No. 140,275; Mar. 8; v. 284; p. 371.
- International Tray Co., New York, N. Y. Wooden trays. No. 148,762; Nov. 22.
- International Vegetable Oil Company, The, Atlanta, Ga. Prime summer yellow refined deodorized cotton-seed oil. No. 148,090; Nov. 8.
- International Vegetable Oil Company, The, Atlanta, Ga. Prime summer yellow refined deodorized cottonseed oil. Nos. 149,414-15; Dec. 13.
- Interprovincial Flour Mills, Ltd., Saskatoon, Saskatchewan, Canada. Wheat-flour. Nos. 144,810-11; July 19; v. 288; p. 619.
- Interstate Chemical Company, Jersey City, N. J. Insecticides and germicides. Nos. 141,577-8; Apr. 26; v. 285; p. 780.
- Interstate Chemical Company, Jersey City, N. J. Insecticides and germicides. No. 141,977; May 3; v. 286; p. 186.
- Interstate Drug Company, New York, N. Y. Tonic of cod-liver extract, malt, wild cherry, and hypophosphites. No. 147,115; Oct. 4.
- Interstate Employment System, Denver, Colo. Periodical publications issued monthly. No. 143,054; May 24; v. 286; p. 847.
- Inter-State Oil Company, Minneapolis, Minn. Dry colors, colors in oil, ready-mixed paints, and enamel paints. No. 142,280; May 10; v. 286; p. 404.
- Interstate Shade Cloth Co., Hoboken, N. J. Holland shade-cloth. Nos. 145,269-70; July 26; v. 288; p. 822.
- Interstate Shade Cloth Co., Hoboken, N. J. Scotch beetled window-holland. No. 145,271; July 26; v. 288; p. 823.
- Interstate Shade Cloth Co., Hoboken, N. J. Hand-painted shade-cloth. No. 146,039; Aug. 23; v. 289; p. 792.
- Interstate Shade Cloth Co., Hoboken, N. J. Shade-cloth. No. 149,120; Dec. 6.
- Interstate Shade Cloth Co., Hoboken, N. J. Shade-cloth. No. 149,960; Dec. 27.
- Interstate Tool and Mfg. Co., St. Louis, Mo. Automobile whistles, adapters for attaching whistles to automobile-cylinders. No. 141,576; Apr. 26; v. 285; p. 780.
- Inter-Urban Water Company, Los Angeles, Calif., (now by change of name Aquazone Laboratories, Inc.). Oxygen-water. No. 139,147; Jan. 25; v. 282; p. 734.
- Iodyl Associated Chemists, Inc., Brooklyn, N. Y. Ointment for affections and irritations of the skin. No. 139,997; Mar. 1; v. 284; p. 174.
- Iodyl Associated Chemists Inc., Brooklyn, N. Y. Tonic for children. No. 140,846; Mar. 29; v. 284; p. 945.
- Iowa Grain & Produce Co., Burlington, Iowa. Butter. No. 143,652; June 7; v. 287; p. 184.
- Iowa Soap Company, Burlington, Iowa. Soap for bath and toilet. No. 148,091; Nov. 8.
- Irish, Frank C., New York, N. Y. Nail-polish. No. 145,700; Aug. 16; v. 289; p. 594.
- Irokee Trading Corporation, New York, N. Y. Rubber, composition, textile, pyroxylin, &c., toys. No. 148,092; Nov. 8.
- Irokee Trading Corporation, New York, N. Y. Certain rubber, composition, textile, celluloid, wood, paper, and metal toys. No. 148,870; Nov. 29.
- Irokee Trading Corporation, New York, N. Y. Dolls. No. 149,121; Dec. 6.
- Irokee Trading Corporation, New York, N. Y. Certain wood, paper, and metal toys. Nos. 149,416-18; Dec. 13.
- Ironall Factories Co., The, Cincinnati, Ohio. Overalls, coats, pantaloon, pants, and play-suits, &c. No. 142,584; May 17; v. 286; p. 628.
- Ironwarp Silk Mills, Inc., Allentown, Pa. Silks, cotton and crape textiles in the piece. No. 148,093; Nov. 8.
- Iroquois Beverage Company, Inc., Buffalo, N. Y. Non-alcoholic cereal beverage. No. 148,871; Nov. 29.
- Irving Iron Works Company, Long Island City, N. Y. Metal gratings for floors. No. 139,081; Jan. 18; v. 282; p. 559.
- Isaacs, Henry, Inc., New York, N. Y. Articles of clothing. No. 139,082; Jan. 18; v. 282; p. 559.
- Isaacs & Kubrin, New York, N. Y. Men's suits. No. 145,562; Aug. 9; v. 289; p. 408.
- Isaacs, Sigmund, New York, N. Y., and Yokohama, Japan. Razors and safety-razor blades. No. 142,281; May 10; v. 286; p. 404.
- Ising, C. E., Corporation, The, New York, N. Y. Chemicals, medicines, and pharmaceutical preparations. No. 141,980; May 3; v. 286; p. 186.
- Isko Company, The, Chicago, Ill. Lubricating-oil. No. 140,406; Mar. 15; v. 284; p. 582.
- Ismert-Hincke Milling Company, Kansas City, Kans., and Kansas City, Mo. Flours, cornmeal, and chicken feed. No. 141,981; May 3; v. 286; p. 186.
- Ismert-Hincke Milling Company, Kansas City, Kans., and Kansas City, Mo. Wheat-flour. No. 142,585; May 17; v. 286; p. 628.
- Ismert-Hincke Milling Company, The, Kansas City, Kans., and Kansas City, Mo. Wheat-flour. Nos. 145,383-8; Aug. 2; v. 289; p. 179.
- Ismert-Hincke Milling Company, The, Kansas City, Kans., and Kansas City, Mo. Wheat-flour. No. 146,262; Sept. 6; v. 290; p. 200.
- Ismert-Hincke Milling Company, The, Kansas City, Kans., and Kansas City, Mo. Mixed wheat and corn flour. No. 149,961; Dec. 27.
- Israel Orchard Co., Dayton, Wash. Fresh apples. No. 144,886; July 19; v. 288; p. 621.
- Italian Food Products Co., Inc., Los Angeles, Calif. Canned fish in oil, canned fish and beans in oil. No. 139,942; Feb. 22; v. 283; p. 759.
- Italian Greek Impt. Co., New York, N. Y. Olive-oil. No. 148,094; Nov. 8.
- Italy Commercial Co., New York, N. Y. Salad-oil. No. 146,263; Sept. 6; v. 290; p. 200.
- Iten Biscuit Co., Clinton, Iowa. Cakes. No. 146,264; Sept. 6; v. 290; p. 200.
- It's It Manufacturing Co., Philadelphia, Pa. Cleaning and grease-removing soap. No. 142,586; May 17; v. 286; p. 628.
- Iverson, Martin, Minneapolis, Minn. Washing-tablets. No. 144,812; July 19; v. 288; p. 619.
- Ivy Corset Company, Worcester, Mass. Corsets. No. 141,762; Apr. 26; v. 285; p. 788.
- Ivy Corset Company, Worcester, Mass. Corsets, brassières, bust-supporters, garters, bandeaux, corset-waists. No. 143,653; June 7; v. 287; p. 185.
- Ivy Corset Company, Worcester, Mass. Garters and hose-supporters. No. 147,781; Nov. 1.
- Izzard Company, The, Seattle, Wash. Canned salmon. No. 148,095; Nov. 8.
- J. & P. Coats (R. I.) Inc., Pawtucket, R. I. Thread and yarn. No. 146,580; Sept. 13; v. 290; p. 422.
- J-R Products Company, The, Cincinnati, Ohio. Chemical preparation for intensifying gasoline. No. 146,783; Sept. 20; v. 290; p. 634.
- Jackson, Alfred J., Grand Rapids, Mich. Automobiles. No. 143,373; May 31; v. 286; p. 1050.
- Jackson Brewing Company, New Orleans, La. Non-alcoholic, cereal beverages containing malt sold as soft drinks. No. 148,451; Nov. 15.
- Jackson, Edwin A., & Bro., Incorporated, New York, N. Y. Chemical composition for producing colored fire. No. 145,968; Aug. 23; v. 289; p. 788.
- Jackson, Edwin A., & Bro. Inc., New York, N. Y. Certain garbage-receivers. No. 149,122; Dec. 6.
- Jackson, Emma B., Helena, Ark. Hair-grower, pressing-oil, shampoo, &c. No. 148,872; Nov. 29.
- Jackson, Gabrielle E., New York, N. Y. Ladies', misses', and children's dresses. No. 141,147; Apr. 12; v. 285; p. 381.
- Jackson, Gabrielle E., New York, N. Y. Candy. No. 145,120; July 26; v. 288; p. 814.
- Jackson, L. N., & Company, Inc., San Francisco, Calif. Canned fish. No. 141,149; Apr. 12; v. 285; p. 381.
- Jackson Piano Co., Milwaukee, Wis. Pianos and player-pianos. No. 142,372; May 10; v. 286; p. 408.
- Jackson & Stamper, Middletown, Ohio. Preparation for the treatment of rheumatism. No. 141,441; Apr. 19; v. 285; p. 569.
- Jacob, H., & Sons, Inc., New York, N. Y. Vells and veillings and nettings in the piece. No. 143,983; June 21; v. 287; p. 580.
- Jacob Miller Sons & Co., Philadelphia, Pa. Mixture of silk and jersey in the piece. No. 148,480; Nov. 15.
- Jacobs Brothers, Baltimore, Md. Blouses, dresses, &c. No. 146,265; Sept. 6; v. 290; p. 200.
- Jacobs Candy Company Ltd., New Orleans, La. Candy. No. 139,556; Feb. 8; v. 283; p. 351.
- Jacobsen Manufacturing Company, Racine, Wis. Lawn-mowers. No. 149,681; Dec. 20.
- Jacobsohn and Schwager, New York, N. Y. Men's and boys' hats and caps. No. 140,613; Mar. 22; v. 284; p. 745.
- Jacobson, Joseph E., Jacksonville, Fla. Analgesic and stimulating antiseptic ointment for inflammatory congestion. No. 141,579; Apr. 26; v. 285; p. 780.
- Jacobson, Max, New York, N. Y. Talking-boards. No. 149,123; Dec. 6.
- Jacobsson Manufacturing Company, The, Cleveland, Ohio. Screens for motion-pictures. No. 140,276; Mar. 8; v. 284; p. 371.
- Jacobus, Martin R., New York, N. Y. Feed-hoppers. No. 142,880; May 17; v. 286; p. 639.
- Jacoby, Philip I., San Francisco, Calif. Cakes in animal shapes. No. 147,859; Nov. 1.
- Jaeger, Edmond, Paris, France. Indicators of revolution, speed-indicators, altitude-registering anemometers. No. 149,419; Dec. 13.
- Jaeger, H. B., Barber Supply Co., Jacksonville, Ill. Hair-tonics. No. 146,650; Sept. 13; v. 290; p. 428.
- Jaenecke-Ault Company, Newark, N. J. Printing-inks. No. 146,266; Sept. 6; v. 290; p. 200.
- James, R. Gainsforth, Detroit, Mich. Medicinal preparations. No. 143,055; May 24; v. 286; p. 847.
- James, William A., Bradford, England. Cloths and stuffs of wool, worsted, or hair. No. 140,614; Mar. 22; v. 284; p. 745.
- Janiece, Katherine, Los Angeles, Calif. Chocolate-coated candies. No. 141,580; Apr. 26; v. 285; p. 780.
- Jankowski, Joseph, Chicago, Ill. Salve for certain ailments. No. 149,962; Dec. 27.
- Jann, Jacob, Philadelphia, Pa. Remedy for whooping-cough and to alleviate colds and sore throat. No. 148,673; Nov. 22.



- Janowitch, J. H., & Janov, Inc., New York, N. Y. Children's outer suits, boys' blouses, negligée and dress shirts. No. 149,124; Dec. 6.
- Jansen and Pretzfeld, Inc., New York, N. Y. Dress-silks in the piece. No. 139,330; Feb. 1; v. 283; p. 170.
- Jansen and Pretzfeld, Inc., New York, N. Y. Dress-silk in the piece. No. 142,587; May 17; v. 286; p. 628.
- Jansen & Pretzfeld, Inc., New York, N. Y. Silk in the piece. No. 144,813; July 19; v. 288; p. 619.
- Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. No. 146,849; Sept. 20; v. 290; p. 636.
- Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. Nos. 147,782-3; Nov. 1.
- Jaquins, Edward A., Los Angeles, Calif. Automobile-tires constructed of rubber and fabric. No. 148,452; Nov. 15.
- Jaques, W. B., Drug Company, Plattsburg, N. Y. Laxative. No. 139,148; Jan. 25; v. 282; p. 734.
- Jaquet, Daniel, Neuilly-sur-Seine, France. Perfumes, face powders and cream, lip-sticks, &c. No. 139,329; Feb. 1; v. 283; p. 170.
- Jardox Limited, London, England. Extract of meat. No. 144,814; July 19; v. 288; p. 619.
- Jarvis, Henry C., New York, N. Y. Pills for constipation and torpid liver. No. 146,490; Sept. 6; v. 290; p. 214.
- Jarvis and Jarvis, Palmer, Mass. Service-wagons, buffers, bumpers, wheels, &c. No. 145,389; Aug. 2; v. 289; p. 179.
- Jefferson Collar Co., New York, N. Y. Collars and neckbands. No. 145,121; July 26; v. 288; p. 814.
- Jefferson Forge Products Company, The, Detroit, Mich. Steel drop-forgings. No. 149,682; Dec. 20.
- Jefferson Union Company, Lexington, Mass. Metal pipe joints or couplings. Nos. 144,124-5; June 21; v. 287; p. 688.
- Jeffrey-Dewitt Insulator Company, Kenova, W. Va. Electric insulators. No. 144,588; July 12; v. 288; p. 424.
- Jenckes Spinning Company, Pawtucket, R. I. Textile fabrics in the piece for the manufacture of tires. No. 139,998; Mar. 1; v. 284; p. 174.
- Jenckes Spinning Company, Pawtucket, R. I. Laundry-bags. No. 141,982; May 3; v. 286; p. 186.
- Jenckes Spinning Company, Pawtucket, R. I. Canvas bags for carrying coal. No. 142,588; May 17; v. 286; p. 628.
- Jenkins Bros. (See Jenkins Rubber Co., assignor.)
- Jenkins Bros. Limited, Montreal, Quebec, Canada. Brass and iron valves for general use. No. 140,277; Mar. 8; v. 284; p. 371.
- Jenkins, Clarence E., Keene, N. H. Clay and potato mashers. No. 148,453; Nov. 15.
- Jenkins Rubber Co., assignor to Jenkins Bros., Elizabeth, N. J. Rubber packing. No. 140,847; Mar. 29; v. 284; p. 945.
- Jennings, Benjamin P., Chicago, Ill. Preparation for shampooing, washing, and preserving the health and color of the hair. No. 143,984; June 21; v. 287; p. 580.
- Jensen, Franz G., Springfield, Mass. Candied fruits and nuts and candy. No. 138,978; Jan. 18; v. 282; p. 554.
- Jenssens, Georg, Sølvsmedie A/S., Copenhagen, Denmark. Jewelry and flat hollow ware. No. 148,928; Nov. 29.
- Jentz, John N., Jersey City, N. J. Package coffee and rice. No. 146,777; Sept. 20; v. 290; p. 634.
- Jergens, Andrew, Company, The, Cincinnati, Ohio. Soap. No. 145,314; Aug. 2; v. 289; p. 177.
- Jergens, Andrew, Company, The, Cincinnati, Ohio. Perfume. No. 148,674; Nov. 22.
- Jergens, Andrew, Company, The, Cincinnati, Ohio. Skintion. No. 148,675; Nov. 22.
- Jergens, Andrew, Company, The, Cincinnati, Ohio. Toilet powder. No. 148,676; Nov. 22.
- Jerrim, James H., Bromsgrove, England. Vises, chucks, and work-holding fixtures for metal-working-machine tools. No. 145,390; Aug. 2; v. 289; p. 179.
- Jersey Potato Chip Co. (See Gasser, Florence P., assignor.)
- Jerseyville Nursery, Dow and Jerseyville, Ill. Fruit-trees. No. 148,096; Nov. 8.
- Jett & Wood Mercantile Company, The, Wichita, Kans. Canned vegetables and fruits, coffee, spices. No. 141,581; Apr. 26; v. 285; p. 780.
- Jewell, Ariel C., Chicago, Ill. Non-alcoholic, non-cereal, maltless beverages and syrups for making same. No. 149,427; Dec. 13.
- Jewett & Sowers Oil Co., The, Chicago, Ill. Boiler compound, disinfectant, and antifreeze solution. No. 141,582; Apr. 26; v. 289; p. 780.
- Jewett & Sowers Oil Co., The, Chicago, Ill. Motor-lubricating oils. No. 149,420; Dec. 13.
- Jiffo Company Incorporated, The, Little Rock, Ark. Ready-mixed cake-flour. No. 146,267; Sept. 6; v. 290; p. 200.
- Jiffy Dessert Company, Waukesha, Wis. Beverage-powders for making non-alcoholic, non-cereal maltless beverages. No. 142,589; May 17; v. 286; p. 628.
- Jinshichi, Kato, Kyoto, Japan. Prepared medicine for certain purposes. No. 149,968; Dec. 27.
- Jobbers Overall Co. Inc., Lynchburg, Va. Overalls for children. No. 143,654; June 7; v. 287; p. 185.
- Joerns-Mohr Corporation, St. Paul, Minn. Unitary electric-lighting plants. No. 142,590; May 17; v. 286; p. 628.
- Johansson, Carl E., Eskilstuna, Sweden. Certain precision instruments. No. 148,097; Nov. 8.
- Johns-Pratt Company, The, Hartford, Conn. Electric switches, cut-outs, and parts thereof. No. 147,860; Nov. 1.
- Johnson-Appleby Company, Boston, Mass. Baking-powder. No. 149,125; Dec. 6.
- Johnson, Clarence B., Minneapolis, Minn. Photographs. No. 148,454; Nov. 15.
- Johnson Cowdin & Company, Inc., New York, N. Y. Ribbons and goods in the piece. No. 144,311; June 28; v. 287; p. 780.
- Johnson, Cowdin & Company, Inc., New York, N. Y. Ribbons, silk and satin piece goods. No. 144,815; July 19; v. 288; p. 619.
- Johnson, Cowdin & Company, Inc., New York, N. Y. Ribbons and goods in the piece. No. 144,816; July 19; v. 288; p. 619.
- Johnson, Cowdin & Company, Inc., New York, N. Y. Ribbons, and certain named piece goods. No. 145,122; July 26; v. 288; p. 814.
- Johnson, Cowdin & Company, Inc., New York, N. Y. Ribbons and piece goods of silk and satins and mixtures. No. 145,123; July 26; v. 288; p. 814.
- Johnson Cowdin & Co. Inc., New York, N. Y. Ribbons and silks, satins, and mixtures in the piece. Nos. 146,076-8; Aug. 30; v. 289; p. 1013.
- Johnson, Cowdin & Company, Inc., New York, N. Y. Ribbons. Nos. 146,778-9; Sept. 20; v. 290; p. 634.
- Johnson, Cowdin & Company, Inc., New York, N. Y. Certain toilet preparations. Nos. 148,677-8; Nov. 22.
- Johnson Educator Food Co., Boston, Mass. Crackers, cakes, and biscuits. No. 140,151; Mar. 8; v. 284; p. 365.
- Johnson Educator Food Co., Cambridge, Mass. Canned fruits, vegetables, soup, &c. No. 145,391; Aug. 2; v. 289; p. 179.
- Johnson, Gertrude. (See Brown, Jack E., assignor.)
- Johnson, H. A., Co., Boston, Mass. Baking-powder, cream of tartar, baking-soda, &c. No. 147,861; Nov. 1.
- Johnson, James J., Chicago, Ill. Electric-lighting equipment. No. 144,817; July 19; v. 288; p. 619.
- Johnson, John O., Chicago, Ill. Lawn-grass seeds. No. 146,651; Sept. 13; v. 290; p. 428.
- Johnson, John O., Chicago, Ill. Lawn-grass seeds. No. 149,584; Dec. 13.
- Johnson, Leonidas D., Richmond, Va. Roofing-cements. No. 144,589; July 12; v. 288; p. 424.
- Johnson, Le Roy J., Logansport, Ind. Pastries, cakes, doughnuts, and mince-meat. No. 141,983; May 3; v. 286; p. 186.
- Johnson-Locke Mercantile Co., The, San Francisco, Calif. Canned fish. No. 142,592; May 17; v. 286; p. 628.
- Johnson & Sons Manufacturing Chemists, Limited, London, England. Certain chemical substances. No. 145,701; Aug. 16; v. 289; p. 594.
- Johnson & Sons Manufacturing Chemists Limited, London, England. Photographic developers. No. 145,702; Aug. 16; v. 289; p. 594.
- Johnson, Willie S., assignor to L. M. Wilkinson, St. Louis, Mo. Repair outfits for automobile tires and tubes. No. 142,373; May 10; v. 286; p. 408.
- Johnston, Cecil, Royse City, Tex. Medicinal preparation for treatment of chills. No. 149,963; Dec. 27.
- Johnston, George F., Fort Dodge, Iowa, assignor to Pyro-Non Paint Co. Inc., New York, N. Y. Ready-mixed fire-resisting paints, shingle-stains. No. 141,984; May 3; v. 286; p. 186.
- Johnston, George H., Norristown, Pa. Silver and metal polish. No. 142,591; May 17; v. 286; p. 628.
- Johnston, Paul H., Davenport, Iowa. Spectacles and eyeglasses and mountings therefor. No. 140,279; Mar. 8; v. 284; p. 372.
- Johnston, R. F., Paint Co., The, Cincinnati, Ohio. Prepared and ready-mixed paints. No. 142,282; May 10; v. 286; p. 404.
- Johnston, R. F., Paint Company, The, Cincinnati, Ohio. Paint in paste form. No. 142,593; May 17; v. 286; p. 628.
- Johnston, Robert A., Company, Milwaukee, Wis. Candy. No. 147,626; Oct. 25.
- Johnston, William T., Chicago, Ill. Electric batteries and parts thereof. No. 148,098; Nov. 8.
- Johnstown Bottling Company. (See Rothstein, Maurice, assignor.)
- Jolie, Inc., New York, N. Y. Rouges, face-creams, toilet waters, perfumes, &c. No. 138,979; Jan. 18; v. 282; p. 554.
- Jones, B. F. A., St. Louis, Mo. Ointment for the treatment of the hair and scalp. No. 145,272; July 26; v. 288; p. 823.
- Jones, Cumberland F., Chicago, Ill. Certain medicinal preparations. No. 148,873; Nov. 29.
- Jones, Hattie, St. Louis, Mo. Hair-grower. No. 148,100; Nov. 8.
- Jones, John B., Atlantic City, N. J. Preparation for application to molds to facilitate separation of the mold and cast. No. 145,970; Aug. 23; v. 289; p. 788.
- Jones, John W., Fletcher, Okla. Hair-restorer. No. 146,781; Sept. 20; v. 290; p. 634.
- Jones & Jones Company, The, Kingman, Kans. Tire-patcher. No. 140,848; Mar. 29; v. 284; p. 945.
- Jones & Jones Company, The, Kingman, Kans. Sheet-rubber patches. No. 145,124; July 26; v. 288; p. 814.
- Jones & Lamson Machine Company, Springfield, Vt. Automatic lathes. No. 140,280; Mar. 8; v. 284; p. 372.



*Alphabetical list of registrants of trade-marks—Continued.*

- Jones & Lamson Machine Company, Springfield, Vt. Lathes and dies for cutting threads on screws, &c. No. 147,492; Oct. 18.
- Jones, Mary R., Ridgeville, Ga. Herb tea for tuberculosis, &c. No. 140,849; Mar. 29; v. 284; p. 945.
- Jones, Pattie R., Birmingham, Ala. Certain medicinal and scalp preparations. No. 149,964; Dec. 27.
- Jones, Robert N., Crystal Springs, Miss. Remedy for piles. No. 149,965; Dec. 27.
- Jones, Robert T., Martins Ferry, Ohio. Medicinal preparation. No. 141,985; May 3; v. 286; p. 186.
- Jones, Thomas R., Wilkes-Barre, Pa. Miners' caps. No. 149,126; Dec. 6.
- Jonesseez Manufacturing Co., Berkeley, Calif. Flat wood toy figures. No. 149,684; Dec. 20.
- Jonkopings & Vulcans Tandsticksfabriks Aktiebolag. (See Aktiebolaget Förenade Svenska Tandsticksfabriker, assignor.)
- Jordan Marsh Company, Boston, Mass. Sheets and pillowcases. No. 139,331; Feb. 1; v. 283; p. 170.
- Jordan Marsh Company, Boston, Mass. Girls' play-suits. No. 140,152; Mar. 8; v. 284; p. 365.
- Jordan Marsh Company, Boston, Mass. Diaper-cloth in the piece. No. 140,850; Mar. 29; v. 284; p. 945.
- Jordan Marsh Company, Boston, Mass. Clothing. No. 141,148; Apr. 12; v. 285; p. 381.
- Jordan Marsh Company, Boston, Mass. Leather gloves. No. 141,150; Apr. 12; v. 285; p. 381.
- Jordan Marsh Company, Boston, Mass. Leather foot-balls. No. 148,874; Nov. 29.
- Jordan Marsh Company, Boston, Mass. Golf-clubs. No. 149,127; Dec. 6.
- Jordan, Mary A., Greenwood, Miss. Hair-salve. No. 139,149; Jan. 25; v. 282; p. 734.
- Jordan, Robert G., Jr., Macon, Ga. Peanut-sandwiches. No. 146,782; Sept. 20; v. 290; p. 634.
- Joseph Krieg-Fink Co., Inc., Jersey City, N. J. Non-intoxicating, maltless, non-cereal beverage. No. 149,136; Dec. 6.
- Josephine Chocolates Limited, London, England. Chocolate. No. 148,101; Nov. 8.
- Josephine Chocolates, Limited, London, England. Chocolates. No. 148,875; Nov. 29.
- Josey-Miller Co., Beaumont, Tex. Dairy feed. No. 145,392; Aug. 2; v. 289; p. 179.
- Josey-Miller Co., Beaumont, Tex. Poultry feed. No. 147,002; Sept. 27; v. 290; p. 805.
- Joslin Mfg. Co., Providence, R. I. Shoe and corset lacing tips. No. 148,102; Nov. 8.
- Joy Food Products Co., Kansas City, Mo. Breakfast food. No. 141,394; Apr. 19; v. 285; p. 567.
- Judd, H. L., Company, New York, N. Y. Certain hardware for drapery, furniture, and upholstery. No. 143,985; June 21; v. 287; p. 580.
- Judell, Maxson F., New York, N. Y. Toilet and shaving soaps, shaving-cream. No. 144,421; July 5; v. 288; p. 193.
- Judkins, W. V., & Son. (See Judkins, Walter V., assignor.)
- Judkins, Walter V., assignor to W. V. Judkins & Son, Boston, Mass. Satin taffeta ribbon in the piece. No. 140,407; Mar. 15; v. 284; p. 582.
- Jungmann-Landecker Garment Co., St. Louis, Mo. Girls' misses', and ladies' dresses, middie-blouses, skirts, and bloomers. No. 145,703; Aug. 16; v. 289; p. 594.
- Justa Manufacturing Company, Oklahoma, Okla. Patches for tires. No. 145,125; July 26; v. 288; p. 814.
- Justrite Manufacturing Company, Chicago, Ill. Oil-cups and oil-feeding devices. No. 141,763; Apr. 26; v. 285; p. 789.
- K-D Lamp Company, The, Cincinnati, Ohio. Electric lamps for automobiles and other vehicles. No. 142,650; May 17; v. 286; p. 630.
- K & G Laboratories Co., Chicago, Ill. Egg-preserved. No. 149,969; Dec. 27.
- K & K. Chemical Co., Inc., Brooklyn and New York, N. Y. Non-alcoholic maltless beverage. No. 140,851; Mar. 29; v. 284; p. 945.
- K-M Manufacturing Company, The, Toledo, Ohio. Wind-shield-cleaners of the blade-wiping type. No. 148,115; Nov. 8.
- K. P. Products Co., Inc., The, New York, N. Y. Automobile-rim tools. No. 147,461; Oct. 18.
- Kabo Corset Company, Chicago, Ill. Corsets and brasieres. No. 140,408; Mar. 15; v. 284; p. 582.
- Kabushiki Kaisha Hirao Sampei Shoten, Tokyo, Japan. Perfumes, incense, and toilet articles. No. 139,332; Feb. 1; v. 283; p. 170.
- Kafir Chemical Laboratories, Omaha, Nebr. Tooth-paste. No. 147,003; Sept. 27; v. 290; p. 805.
- Kafir Chemical Laboratories, Omaha, Nebr. Certain medicinal preparation, tooth-paste, and mouth-wash. No. 147,116; Oct. 4.
- Kahlenberg Bros. Co., Two Rivers, Wis. Crude-oil engines. No. 146,581; Sept. 13; v. 290; p. 422.
- Kahn Manufacturing Company, Mobile, Ala. Overalls, coveralls, trousers, and palm beach suits. No. 147,862; Nov. 1.
- Kahn Manufacturing Company, Mobile, Ala. Overalls, coveralls, trousers. No. 149,128; Dec. 6.
- Kahn, Samuel, New York, N. Y. Fur-skins. No. 145,126; July 26; v. 288; p. 814.
- Kahn, Samuel B., Chicago, Ill. Cuff buttons and links. No. 145,971; Aug. 23; v. 289; p. 788.
- Kahn Tailoring Company, Indianapolis, Ind. Men's clothes. No. 146,040; Aug. 23; v. 289; p. 793.
- Kahn Tailoring Company, Indianapolis, Ind. Men's clothes comprising coats, vests, and trousers. No. 149,129; Dec. 6.
- Kahn, William E., Glen Cove, N. Y. Stove-polish. No. 139,684; Feb. 8; v. 283; p. 357.
- Kahn's, E., Sons Company, The, Cincinnati, Ohio. Hams, bacon, shoulders, &c. No. 141,583; Apr. 26; v. 285; p. 780.
- Kalamazoo Corset Company, Kalamazoo, Mich. Corsets and corset-waists. No. 145,704; Aug. 16; v. 289; p. 594.
- Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Stationery. Nos. 144,661-3; July 12; v. 288; p. 428.
- Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich. Parchment-papers. No. 142,210; May 3; v. 286; p. 195.
- Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich. Parchment-papers, waxed paper, wrapping-papers, and bond writing-papers. No. 145,127; July 26; v. 288; p. 814.
- Kali Manufacturing Co., Philadelphia, Pa. Oil used in the textile and dyeing industries. No. 139,824; Feb. 22; v. 283; p. 753.
- Kalinska, Constanca A., Cleveland, Ohio. Remedy for debilities of stomach, headache, &c. No. 138,649; Jan. 4; v. 282; p. 187.
- Kalman, Paul J., Company, Inc., Chicago, Ill. Concrete-reinforcing devices. Nos. 139,457-8; Feb. 1; v. 283; p. 175.
- Kaloostian, Peter S., Providence, R. I. Salted nuts. No. 139,557; Feb. 8; v. 283; p. 351.
- Kamm Co., Mishawaka, Ind. Non-alcoholic beverages; syrup colors and flavors used in preparation thereof. No. 143,057; May 24; v. 286; p. 847.
- Kamm & Schellinger Co., Mishawaka, Ind. Orange extract and syrup. No. 140,615; Mar. 22; v. 284; p. 745.
- Kane, M., & Co., Philadelphia, Pa. General tonic. No. 148,455; Nov. 15.
- Kangaroo Polish Co. (See Henderson, Warwick, assignor.)
- Kanner, Marks & Trauring, New York, N. Y. Misses' and juniors' suits and coats. No. 149,966; Dec. 27.
- Kansas City Broom Company, Kansas City, Mo. Brooms. No. 142,647; May 17; v. 286; p. 630.
- Kansas City Kola Company, Kansas City, Mo. Non-alcoholic maltless beverage and syrup for making same. No. 147,493; Oct. 18.
- Kansas City Photographic Supply Company, Kansas City, Mo. Photographic prints and photographic enlargements. No. 139,151; Jan. 25; v. 282; p. 734.
- Kansas City Smelting Co., Kansas City, Mo. Babbitt metal. No. 148,103; Nov. 8.
- Kansas City Wall Paper Company, Kansas City, Mo. Wall-paper. No. 143,374; May 31; v. 286; p. 1050.
- Kansas Flour Mills Company, The, Sleepy Eye, Minn. Wheat-flour. No. 143,712; June 7; v. 287; p. 186.
- Kansas, Thomas C., Amsterdam, N. Y. Soap. No. 142,648; May 17; v. 286; p. 630.
- Kappus, John M., Cleveland, Ohio. Display-racks. No. 144,590; July 12; v. 288; p. 424.
- Kappus, John M., Cleveland, Ohio. Laxative tablets. No. 145,972; Aug. 23; v. 289; p. 788.
- Karcher, A., Candy Co., Little Rock, Ark. Candy. No. 142,649; May 17; v. 286; p. 630.
- Kardell Tractor & Truck Company, St. Louis, Mo. Tractors. No. 140,852; Mar. 29; v. 284; p. 945.
- Karnes, Charles F., Tulsa, Okla. Salve for treatment of piles, blood-poison, flesh-cuts, and old sores. No. 147,117; Oct. 4.
- Karp, Joseph H., New York, N. Y. Hair-bleach. No. 140,153; Mar. 8; v. 284; p. 365.
- Karp, Joseph H., New York, N. Y. Certain toilet preparations. No. 147,118; Oct. 4.
- Karpeles Company, Providence, R. I. Pearls, artificial and synthetic pearls. No. 139,825; Feb. 22; v. 283; p. 753.
- Karpeles Company, Providence, R. I. Jewelry for personal wear, matchcases and purses. No. 139,999; Mar. 1; v. 284; p. 174.
- Karpen, S., & Bros., Chicago, Ill. Upholstered davenport, sofas, rockers, &c. No. 149,967; Dec. 27.
- Kar-Pep Manufacturing Company, Knoxville, Tenn. Liquids for removing carbon from the interior surfaces of internal-combustion engines. No. 140,409; Mar. 15; v. 284; p. 582.
- Karschnick, Rudolph, Mrs., Detroit, Mich. Face-powder. No. 140,853; Mar. 29; v. 284; p. 945.
- Kasch, Edward, San Marcos, Tex. Cotton-seed. Nos. 140,043-4; Mar. 1; v. 284; p. 177.
- Kass, Hyman M., New York, N. Y. Collars and cuffs. No. 148,679; Nov. 22.
- Katz, Charles S., St. Louis, Mo. Hats for men, women, and children. No. 141,395; Apr. 19; v. 285; p. 567.
- Katz, Nathan U., Camden, N. J. Candies. No. 149,686; Dec. 20.
- Katzenbach & Bullock Co., New York, N. Y. Certain named oils and waxes, &c. No. 148,456; Nov. 15.
- Katzenbach & Bullock Co., New York, N. Y. Certain chemical, medical, and pharmaceutical preparations. No. 148,680; Nov. 22.
- Kauai Fruit & Land Co., Honolulu, Hawaii. Canned fruits. No. 138,650; Jan. 4; v. 282; p. 187.



- Kaufman Packing Co., Inc., Baltimore, Md. Lard substitute containing cotton-seed oil. No. 138,651; Jan. 4; v. 282; p. 188.
- Kaufman, Sidney, New York, N. Y. Hosiery. No. 145,705; Aug. 16; v. 289; p. 594.
- Kaufman-Straus Co., Louisville, Ky. Toilet and bath soaps. No. 143,375; May 31; v. 286; p. 1050.
- Kaufmann, Chas., & Sons, Santa Ana, Calif. Rear-view mirrors for automobiles, motorcycles, &c. No. 139,333; Feb. 1; v. 283; p. 170.
- Kaufmann, Chas., & Sons, Santa Ana, Calif. Spot-lights for vehicles, &c. No. 139,826; Feb. 22; v. 283; p. 753.
- Kaufmann Department Stores, Inc., Pittsburgh, Pa. Pearls. No. 140,410; Mar. 15; v. 284; p. 582.
- Kaufmann Department Stores, Inc., Pittsburgh, Pa. Medicinal and pharmaceutical preparations. No. 143,987; June 21; v. 287; p. 680.
- Kaut, Wm., Footwear Company, Carthage, Mo. Boots and shoes made of leather for misses and children. No. 140,154; Mar. 8; v. 284; p. 365.
- Kavanaugh, George W., Inc., New York, N. Y. Yarns. No. 139,334; Feb. 1; v. 283; p. 170.
- Kay, Bernard, New York, N. Y. Imitation-leather material. No. 149,685; Dec. 20.
- Kay & Ess Company, The, Dayton, Ohio. Paints and painters' materials. Nos. 141,986-8; May 3; v. 286; p. 186.
- Kayatta, Joseph P., Providence, R. I. Medicinal preparation taken as a tonic. No. 146,111; Aug. 30; v. 289; p. 1014.
- Kays Millinery Company, Newark, N. J. Ladies' hats. No. 147,342; Oct. 11.
- Kayser & Co., New York, N. Y. Silk piece goods. No. 148,457; Nov. 15.
- Kean, T. J., Philadelphia, Pa. Ointment for the skin. No. 140,155; Mar. 8; v. 284; p. 365.
- Kearns-Gorschuch Bottle Company, The, Zanesville, Ohio. Glass bottles and jars. No. 138,652; Jan. 4; v. 282; p. 188.
- Keene Washing Products Company, Keene, N. H. Washing compounds. No. 145,128; July 26; v. 288; p. 814.
- Keener Sand & Clay Co., The, Columbus, Ohio. Molding-sand. No. 143,808; June 7; v. 287; p. 191.
- Keener Sand & Clay Co., Columbus, Ohio. Molding-sand. No. 146,784; Sept. 20; v. 290; p. 634.
- Keet & Rountree Dry Goods Co., Springfield, Mo. Overalls. No. 144,818; July 19; v. 288; p. 619.
- Keffer, Mary A., New York, N. Y. Hair-tonic. No. 145,706; Aug. 16; v. 289; p. 594.
- Kegan Grace Co., Baltimore, Md. Overalls. No. 143,058; May 24; v. 286; p. 847.
- Kehoe Preserving Company, Terre Haute and Clay City, Ind. Pickled sweet peppers, chopped pimentos, tomato jam, &c. No. 147,119; Oct. 4.
- Kelser, Fred, Scranton, Pa. Bread. No. 145,393; Aug. 2; v. 289; p. 179.
- Kelster, J. W., & Son, Pulaski, Va. Medicine used as a blood and body builder. No. 140,854; Mar. 29; v. 284; p. 945.
- Keith, H. J., Company, Boston, Mass. Eggs and egg products. No. 139,558; Feb. 8; v. 283; p. 351.
- Kelleher, William J., Toronto, Ontario, Canada. English toffee. No. 146,268; Sept. 6; v. 290; p. 200.
- Kelleher, William J., Toronto, Ontario, Canada. Butter-scotch candy. No. 146,785; Sept. 20; v. 290; p. 634.
- Keller Knitting Company, The, Cleveland, Ohio. Knitted sweaters and sweater-coats. No. 144,819; July 19; v. 288; p. 619.
- Keller Knitting Company, The, Cleveland, Ohio. Knitted caps, including skating-caps, stocking-caps. No. 145,787; Aug. 16; v. 289; p. 597.
- Kellerit-Schlauch-Gesellschaft m. b. H., Vienna, Austria. Flexible paper tubes. No. 138,828; Jan. 11; v. 282; p. 377.
- Kelley Brothers, Detroit, Mich. Coffee. No. 146,269; Sept. 6; v. 290; p. 200.
- Kelley Island Lime & Transport Company, Cleveland, Ohio. Hydrated lime. No. 147,224; Oct. 4.
- Kelley, Julius C., Birmingham, Ala. Remedy for the scalp and hair. No. 146,270; Sept. 6; v. 290; p. 200.
- Kelley, William T., Kirkwood, Mo. Goiter reducer or treatment. No. 146,786; Sept. 20; v. 290; p. 635.
- Kellogg, John L., Battle Creek, Mich. Candy or confectionery. No. 139,559; Feb. 8; v. 283; p. 351.
- Kellogg, John L., Battle Creek, Mich. Corn candy. No. 142,651; May 17; v. 286; p. 630.
- Kellogg, Spencer, & Sons, Inc., Buffalo, N. Y. Castor-oil. No. 145,014; July 19; v. 288; p. 629.
- Kellogg, Spencer, & Sons, Inc., Buffalo, N. Y. Castor-oil. No. 147,004; Sept. 27; v. 290; p. 805.
- Kellogg Switchboard and Supply Company, Chicago, Ill. Telephones, switchboards. No. 141,151; Apr. 12; v. 285; p. 381.
- Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Cereal breakfast food. No. 145,422; Aug. 2; v. 289; p. 180.
- Kellogg Toasted Corn Flake Company, Battle Creek, Mich. Cereal breakfast foods. Nos. 147,454-5; Oct. 18.
- Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Peanut-butter. No. 147,456; Oct. 18.
- Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Tea and coffee. No. 147,457; Oct. 18.
- Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Flaked cereal foods. No. 147,458; Oct. 18.
- Kelly Axe Manufacturing Co., Inc., Charleston, W. Va., and New York, N. Y. Axes, hatchets, &c. No. 140,855; Mar. 29; v. 284; p. 945.
- Kelly, John F., Pittsfield, Mass. Dried cranberries, corn, carrots, mixed vegetables, &c. No. 143,376; May 31; v. 286; p. 1050.
- Kelly, P. M., Daltort, Tex. Spurs and bits. No. 147,057; Sept. 27; v. 290; p. 808.
- Kelly, Thomas D., Brighton, England. Preparation for waterproofing textile fabrics. No. 140,856; Mar. 29; v. 284; p. 945.
- Kellsall & Kemp Limited, The Butts, Rochdale, England. Flannel. No. 146,787; Sept. 20; v. 290; p. 635.
- Kellsall & Kemp Limited, The Butts, Rochdale, England. Certain flannel shirts and similar cloths and stuffs in the piece. No. 147,120; Oct. 4.
- Kellsall & Kemp Limited, Rochdale, England. Flannel, woolen cloths, haircloths, &c., in the piece. No. 148,876; Nov. 29.
- Kelsey Heating Company, Syracuse, N. Y. Steam hot-water, and hot-air furnaces. Nos. 146,491-2; Sept. 6; v. 290; p. 214.
- Kelsey Textile Corporation, New York, N. Y. Cotton piece goods. No. 141,989; May 3; v. 286; p. 186.
- Kelso, J. Russell, Trenton, N. J. Brake-linings and clutch-facings. No. 144,422; July 5; v. 288; p. 193.
- Kelso, John R., Trenton, N. J. Brake-lining. No. 143,854; June 14; v. 287; p. 400.
- Kelvin, Bottomley & Baird, Limited, Glasgow, Scotland. Sounding-tubes. No. 139,561; Feb. 8; v. 283; p. 351.
- Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. No. 142,652; May 17; v. 286; p. 630.
- Kemiko Co., The, Newark, N. J. Disinfectants and deodorants. No. 147,784; Nov. 1.
- Kemp, Walter D., New York, N. Y. Chemical compounds adapted for pyrotechnic display. No. 139,335; Feb. 1; v. 283; p. 150.
- Kempen, George F., Ardmore, Pa. Ice-cream, frozen dainties, cake, and pastry delicacies. No. 145,394; Aug. 2; v. 289; p. 179.
- Kenaski Bros., Jersey City, N. J. Insect-exterminator. No. 144,423; July 5; v. 288; p. 193.
- Kendall, John F., New York, N. Y. Mechanical fuel-economizers. No. 143,377; May 31; v. 286; p. 1050.
- Kendel, C. Edward, Cleveland, Ohio. Lawn-seeds. Nos. 143,809-10; June 7; v. 287; p. 191.
- Kennedy Car Liner & Bag Co., Shelbyville, Ind. Paper bags, merchandise-envelopes, paper car-liners. No. 149,315; Dec. 6.
- Kennedy Valve Mfg. Co., The, Elmira, N. Y. Fire-hydrants, indicator-posts, certain-valves, &c. No. 148,458; Nov. 15.
- Kent, Charles W., Peoria, Ill. Electric massage-machines. No. 144,424; July 5; v. 288; p. 193.
- Kent, Earl, Tacoma, Wash. Butter. No. 146,271; Sept. 6; v. 290; p. 200.
- Kent, F. C., Company, The, Newark, N. J. Certain photograph accessories. Nos. 148,104-5; Nov. 8.
- Kentucky Color & Chemical Company, Louisville, Ky. Paints and painters' materials. No. 138,980; Jan. 18; v. 282; p. 554.
- Kentucky Derby Co., Inc., New York, N. Y. Dolls. No. 142,653; May 17; v. 286; p. 630.
- Kentucky Distilleries & Warehouse Co., New York, N. Y. Denatured alcohol. No. 148,877; Nov. 29.
- Kenyon, Thomas N., Minneapolis, Minn. Catarrhal jelly. No. 147,728; Oct. 25.
- Kepec Company, The, Milwaukee, Wis. Leather-dressings and metal-polishing materials. No. 148,106; Nov. 8.
- Kerlin, Lucrétia B., Chester, Pa. Certain toilet preparations. No. 147,005; Sept. 27; v. 290; p. 805.
- Kern, Frederick E., St. Louis, Mo. Ironing-tools for millinery purposes. No. 142,654; May 17; v. 286; p. 630.
- Kerner Incinerator Company, Milwaukee, Wis. Incinerators. No. 141,990; May 3; v. 286; p. 186.
- Kerr, Albert E., San Francisco, Calif. Furniture-polish. No. 141,152; Apr. 12; v. 285; p. 381.
- Kerr, Alex, Bros. & Co., Philadelphia, Pa. Salt. No. 139,336; Feb. 1; v. 283; p. 170.
- Kerr, Alex., Bros. & Co., Philadelphia, Pa. Salt. No. 143,059; May 24; v. 286; p. 847.
- Kervan Company, New York, N. Y. Florist dispensing supplies. No. 144,820; July 19; v. 288; p. 619.
- Kescot Manufacturing Company, Incorporated, Providence, R. I. Cut-steel buckles. No. 147,343; Oct. 11.
- Kessler, John H., Cleveland, Ohio. Liquid preparation for treatment of certain ailments. No. 148,107; Nov. 8.
- Kessling, E., Thermometer Co., Brooklyn, N. Y. Clinical thermometers. No. 147,344; Oct. 11.
- Kessol Account Book Company, The, Boston, Mass. Partially-printed forms, instruction-blanks, and account-books. No. 143,064; May 24; v. 286; p. 847.
- Kestenman Bros. Mfg. Co., Providence, R. I. Lingerie-clasps. No. 149,784; Dec. 20.
- Kesting, Harry A., Kansas City, Mo. Shelled popcorn. No. 144,821; July 19; v. 288; p. 619.
- Keuffel & Esser Company, Hoboken, N. J. Drawing instruments. Nos. 143,060-1; May 24; v. 286; p. 847.
- Keuffel & Esser Company, Hoboken, N. J. Sketching-paper. No. 144,822; July 19; v. 288; p. 619.
- Key Boiler Equipment Company, St. Louis, Mo. Sealing paste. No. 141,584; Apr. 26; v. 285; p. 780.



*Alphabetical list of registrants of trade-marks—Continued.*

- Keystone, Albumin & Paint Company, Philadelphia, Pa. Ready-mixed and paste paints, enamel paints, and flat wall-finishers. No. 148,586; Nov. 15.
- Keystone Albumin & Paint Company, Philadelphia, Pa. Preparation for use in tanning of hides and leather. No. 148,587; Nov. 15.
- Keystone Die Casting Co., Norristown, Pa. Non-ferrous castings made in permanent molds. Nos. 143,655-6; June 7; v. 287; p. 185.
- Keystone Die Casting Co., Norristown, Pa. Ingots of non-ferrous metal. No. 149,421; Dec. 13.
- Keystone Hair Insulator Company, Pittsburgh, Pa. Insulating-sheeting. No. 144,592; July 12; v. 288; p. 424.
- Keystone Reamer & Tool Company, Millersburg, Pa. Reamers, taps, dies, and milling-cutters. No. 141,991; May 3; v. 286; p. 186.
- Keystone Surgical Supply Co., Conshohocken, Pa. Medical and surgical appliances. No. 143,378; May 31; v. 286; p. 1050.
- Khan, Ollie B. H., Chicago, Ill. Medicinal preparations. No. 141,992; May 3; v. 286; p. 186.
- Kibbe Brothers Company, Springfield, Mass. Candy. No. 145,395; Aug. 2; v. 289; p. 180.
- Kibby, Adaline, Mrs., Columbus, Ohio. Salve. No. 146,272; Sept. 6; v. 290; p. 200.
- Kickbusch, A., Grocery Co., Wausau, Wis. Non-alcoholic, non-intoxicating, maltless, non-cereal beverage. No. 139,827; Feb. 22; v. 283; p. 753.
- Kiddy Shoe Service, Inc., Lititz, Pa. Shoes made of leather and combination of leather and fiber. No. 142,283; May 10; v. 286; p. 404.
- Kienzle, Henry C., Canon City, Colo. Proprietary stomach medicine and laxative pill. No. 139,828; Feb. 22; v. 283; p. 753.
- Kieser, F. & Son Co., Inc., Waverly, N. Y. Grains and feeds. No. 139,562; Feb. 8; v. 283; p. 351.
- Kiesling, A. E., Houston, Tex. Toilet preparations and the like. No. 146,112; Aug. 30; v. 289; p. 1014.
- Kiewel Brewing Company, Crookston, Minn. Beverage. No. 141,993; May 3; v. 286; p. 186.
- Kilcoyne, Edward L., Wilkes-Barre, Pa. General medicinal tonic. No. 145,707; Aug. 16; v. 289; p. 594.
- Killefer Manufacturing Company, The, Los Angeles, Calif. Plows, cultivators, weeders, mulchers, &c. No. 140,616; Mar. 22; v. 284; p. 745.
- Kilo Electric Company, Indianapolis, Ind. Electric socket-switches, electric motors, &c. No. 144,826; July 19; v. 288; p. 619.
- Kimball, C. M., Company, Winthrop, Mass. Silver-polish. No. 148,108; Nov. 8.
- Kimball Company, The, Philadelphia, Pa. Pipe-thread and gasket compound. No. 149,970; Dec. 27.
- Kimbell, William A., Atlanta, Ga. Preparation for relief of headache, neuralgia, &c. No. 149,687; Dec. 20.
- King Bee Spark Plug Company, St. Louis, Mo. Spark-plugs. No. 142,657; May 17; v. 286; p. 630.
- King Candy Co., Fort Worth, Tex. Candy. Nos. 142,655-6; May 17; v. 286; p. 630.
- King Candy Co., Fort Worth, Tex. Candy. No. 146,788; Sept. 20; v. 290; p. 635.
- King Coffee Products Corporation, Detroit, Mich. Non-alcoholic coffee beverage sold as a soft drink. No. 138,981; Jan. 18; v. 282; p. 554.
- King & Company, New York, N. Y. Hosiery. No. 148,109; Nov. 8.
- King & Company, New York, N. Y. Hosiery. No. 148,681; Nov. 22.
- King Features Syndicate, Inc., New York, N. Y. Series of comic drawings or pictures. Nos. 143,988-9; June 21; v. 287; p. 580.
- King-Ferree Co., Greensboro, N. C. Cigars. No. 142,677; May 17; v. 286; p. 631.
- King, John P., Mfg. Co., Augusta, Ga. Cotton piece goods. No. 143,657; June 7; v. 287; p. 185.
- King, John Y., Lansdowne, Pa. Air-feeding devices for stoves, furnaces, and other coal-burning appliances. No. 142,374; May 10; v. 286; p. 409.
- King, John Y., Lansdowne, Pa. Air-feeding devices for coal stoves or furnaces. No. 143,990; June 21; v. 287; p. 580.
- King, Louis, Cigar Company, Hartford, Conn. Cigars. No. 143,811; June 7; v. 287; p. 192.
- King Manufacturing Company, The, St. Joseph, Mo. Electric lamps and lamp-fixtures. No. 138,982; Jan. 18; v. 282; p. 554.
- King, Milton H., Sr., Pelham, Ga. Liquid insecticide. No. 140,857; Mar. 29; v. 284; p. 945.
- King, Ralph C., Columbus, Ga. Preparation for treatment of diseases of the mouth and teeth. No. 148,110; Nov. 8.
- King Refractories Corporation, Buffalo, N. Y. Hydraulic and high-temperature cement. No. 149,688; Dec. 20.
- King & Williams, Delphos, Ohio. Preparation for certain named purposes. No. 146,041; Aug. 23; v. 289; p. 793.
- Kingan & Co. Incorporated, Indianapolis, Ind. Poultry feed. No. 149,785; Dec. 20.
- Kingsbury Corporation, Chicago, Ill. Corrosion, acid, and gas proof paint for smokestacks, water-tanks, pipes, &c. No. 149,689; Dec. 20.
- Kinikin, Granville M., Hamilton, Ohio. Eczema-ointment. No. 144,191; June 28; v. 287; p. 774.
- Kinite Company, The, Milwaukee, Wis. Ferro alloys. No. 139,560; Feb. 8; v. 283; p. 351.
- Kinney Manufacturing Company, Boston, Mass. Machines used in the construction and maintenance of roads and streets. No. 138,909; Jan. 11; v. 282; p. 381.
- Kinney Manufacturing Company, Boston and Jamaica Plain, Mass. Machinery. No. 138,910; Jan. 11; v. 282; p. 381.
- Kinney Manufacturing Company, Boston, Mass. Electric motors and parts thereof. No. 142,214; May 3; v. 286; p. 195.
- Kinney Manufacturing Company, Boston, Mass. Asphalt and tar heaters. Nos. 145,892-3; Aug. 16; v. 289; p. 602.
- Kinney Manufacturing Company, Jamaica Plain, Boston, Mass. Tar-kettles, valves, and pipe-fittings. No. 141,041; Mar. 29; v. 284; p. 953.
- Kinyon, Iris J., Topeka, Kans. Insecticide. No. 140,858; Mar. 29; v. 284; p. 945.
- Kinzie Rubber & Manufacturing Co., Chicago, Ill. Rain-coats. No. 146,493; Sept. 6; v. 290; p. 214.
- Kinzie Rubber & Manufacturing Co., Chicago, Ill. Rubber sheetings. No. 149,786; Dec. 20.
- Kirk-Barber Company, Chicago, Ill. Fly-wheel gear-rings. No. 146,494; Sept. 6; v. 290; p. 214.
- Kirk, James S., & Company, Chicago, Ill. Toilet soap. No. 148,588; Nov. 15.
- Kirkendall, F. P. & Co., Omaha, Nebr. Leather shoes and boots. No. 141,396; Apr. 19; v. 285; p. 567.
- Kirkland, Elmer E., Jr., Binghamton, N. Y. Cream for freckles. No. 141,585; Apr. 26; v. 285; p. 780.
- Kirkman & Son, Brooklyn, N. Y. Kosher scouring-powder. No. 141,994; May 3; v. 286; p. 186.
- Kirkman & Son, Brooklyn, N. Y. Chemical preparation for the purpose of making hard water soft. No. 143,062; May 24; v. 286; p. 847.
- Kirkorian, Garabed, Chelsea, Mass. Ointment for the treatment of wounds, cuts, &c. No. 131,530; Jan. 18; v. 282; p. 554.
- Kirkwen Multipower Axle Co. Inc., Seattle, Wash. Axles and axle parts of power-driven vehicles. No. 144,593; July 12; v. 288; p. 424.
- Kirschbaum, A. B., Company, Philadelphia, Pa. Men's and young men's outer suits and overcoats. No. 146,789; Sept. 20; v. 290; p. 635.
- Kirschenbaum Corporation, The, Baltimore, Md. Publications issued monthly. No. 145,708; Aug. 16; v. 289; p. 594.
- Kirschenbaum Corporation, The, Baltimore, Md. Certain articles of clothing. No. 148,459; Nov. 15.
- Kirshenbaum, Louis S., New York, N. Y. Youths' shirts and boys' blouses. No. 141,397; Apr. 19; v. 285; p. 567.
- Kirshner, Nathaniel M., Los Angeles, Calif. Finger-rings. No. 147,627; Oct. 25.
- Kirsten, Ernest, Oakland, Calif. Canned fruits and vegetables. No. 142,658; May 17; v. 286; p. 630.
- Kirsten, Ernest, Oakland, Calif. Canned fruits and vegetables. No. 148,111; Nov. 8.
- Kistler Leather Company, Boston, Mass. Leather belting. No. 148,112; Nov. 8.
- Kit-Chin-Kit Corporation. (See Lickert, John H., assignor.)
- Kitz, Barney, Chicago, Ill. Preparation for the treatment of certain ailments. No. 149,971; Dec. 27.
- Kittredge, W. A., Company, The, Tunkhannock, Pa. Washing compound. No. 149,130; Dec. 6.
- Kitzinger, Harry, & Co., New York, N. Y. Women's, misses', junior, and children's garments. No. 142,678; May 17; v. 286; p. 631.
- Kiwans Club, International, The, Chicago, Ill. Magazine issued monthly. No. 141,995; May 3; v. 286; p. 186.
- Kjaer, L. Vilhelm, Copenhagen, Denmark. Disinfectants. No. 146,790; Sept. 20; v. 290; p. 635.
- Klaiber, Albert. (See Moras, Ferdinand, assignor.)
- Klar, Adolph, New York, N. Y. Hair-nets. Nos. 147,863-4; Nov. 1.
- Klatscher & Lorenz, Inc., New York, N. Y. Glass bottles. No. 140,411; Mar. 15; v. 284; p. 582.
- Klatscher & Lorenz, Inc., New York, N. Y. Bottle-wire. No. 141,398; Apr. 19; v. 285; p. 567.
- Klatscher & Lorenz, Inc., New York, N. Y. Leather and canvas belting and machinery packing. No. 141,996; May 3; v. 286; p. 186.
- Klaxon Company, Newark, N. J. Loud-speaking telephones. No. 140,412; Mar. 15; v. 284; p. 582.
- Klein Chocolate Company, Elizabethtown, Pa. Chocolate. No. 140,709; Mar. 22; v. 284; p. 750.
- Klein Chocolate Company, Elizabethtown, Pa. Chocolate. Nos. 148,113-4; Nov. 8.
- Klein, Emanuel, New York, N. Y. Pure fat, salad-oil, and cooking-oil. No. 145,709; Aug. 16; v. 289; p. 594.
- Klein, Joseph L., St. Louis, Mo. Syrup made from a compound of granulated and maple sugar. No. 142,659; May 17; v. 286; p. 630.
- Klein, Joseph M., New York, N. Y. Certain articles of clothing for men and boys. No. 149,131; Dec. 6.
- Klein Manufacturing Company, The, Cleveland, Ohio. Paints. No. 141,153; Apr. 12; v. 285; p. 381.
- Klein, Max, Philadelphia, Pa. Electric-lighting fixtures and parts thereof. No. 140,413; Mar. 15; v. 284; p. 582.
- Klein, Samuel, Philadelphia, Pa. Toy cars for children. No. 146,273; Sept. 6; v. 290; p. 200.
- Kleinert, I. B., Rubber Company, New York, N. Y. Dress-shields and garters. No. 138,653; Jan. 4; v. 282; p. 188.



- Kleinert, I. B., Rubber Company, New York, N. Y. Receptacles. Nos. 139,152-3; Jan. 25; v. 282; p. 734.
- Kleinert, I. B., Rubber Company, New York, N. Y. Sanitary belts. No. 140,617; Mar. 22; v. 284; p. 745.
- Kleinert, I. B., Rubber Company, New York, N. Y. Rubber household aprons, baby-pants, bathing-caps, &c. No. 140,859; Mar. 29; v. 284; p. 945.
- Kleinert, I. B., Rubber Company, New York, N. Y. Baby-pants. No. 140,860; Mar. 29; v. 284; p. 945.
- Kleinert, I. B., Rubber Company, New York, N. Y. Rubber household aprons, baby-pants, diapers, &c. No. 142,284; May 10; v. 286; p. 404.
- Klemm, A. M., & Son, Winter Haven, Fla. Fresh citrus fruit. No. 138,829; Jan. 11; v. 282; p. 377.
- Klemperer, Gustav, New York, N. Y. Hair-nets. Nos. 146,495-6; Sept. 6; v. 290; p. 214.
- Klenke, August C., San Francisco, Calif. Child's toy vehicle. No. 146,274; Sept. 6; v. 290; p. 200.
- Klimax Overall Company, Winder, Ga. Coats, pants, and overalls. No. 141,586; Apr. 26; v. 285; p. 780.
- Kline, Harold J., San Francisco, Calif. Shampoos and disinfectants. No. 147,121; Oct. 4.
- Klingbeil, Gottlieb L. E., Omaha, Nebr. Child's educational and amusement appliance. No. 149,690; Dec. 20.
- Kling-Lite Products Company, Chicago, Ill. Roof-cement. No. 138,654; Jan. 4; v. 282; p. 188.
- Klinker Manufacturing Co., The, Cleveland, Ohio. Cocoa-butter cream. No. 140,156; Mar. 8; v. 284; p. 365.
- Klinker Manufacturing Co., The, Cleveland, Ohio. Certain toilet preparations. Nos. 147,785-6; Nov. 1.
- Kliss Candy Company, Washington, D. C. Chocolate and bonbons. No. 144,824; July 19; v. 288; p. 619.
- Klor-Barly Company, Inc., The, Bluefield, W. Va. General medicinal tonic. No. 140,861; Mar. 29; v. 284; p. 945.
- Kloss, A. F., Co., Scranton, Pa. Non-alcoholic, non-cereal, maltless beverages and syrups therefor. No. 143,379; May 31; v. 286; p. 1050.
- Kloss, A. F., Co., Scranton, Pa. Non-alcoholic maltless beverages and syrups for making same. No. 149,972; Dec. 27.
- Klosterman, Harry B., Cumberland, Md. Yeast. No. 144,321; June 28; v. 287; p. 781.
- Knab, Frederick, Chicago, Ill. Cream-powder for making custards and puddings. No. 144,825; July 19; v. 288; p. 619.
- Knapp, Annette, Los Angeles, Calif. Toilet preparation used as a face-pack. No. 149,973; Dec. 27.
- Knickerbocker Case Company, Chicago, Ill. Bags made of leather, fiber, &c., for holding merchandise samples, &c. No. 149,787; Dec. 20.
- Knickerbocker Mfg. Co., Chicago, Ill. Massage shower and bath sprays. No. 140,618; Mar. 22; v. 284; p. 745.
- Knight, Allen & Clark, Boston, Mass. Printing-papers. No. 144,594; July 12; v. 288; p. 424.
- Knight and Co., Inc., Lancaster, Pa. Antiseptic mouth-wash. No. 146,275; Sept. 6; v. 290; p. 200.
- Knight, Daye L., Kansas City, Mo. Medicine containing capsules for vaginal treatment. No. 141,997; May 3; v. 286; p. 186.
- Knight Engineering & Sales Co., Los Angeles, Calif. Electric hand-drills. No. 146,791; Sept. 20; v. 290; p. 635.
- Knight, Harry V., Chester, S. C. Egg substitute for baking and cooking. No. 143,658; June 7; v. 287; p. 185.
- Knight Light & Soda Fountain Co., Chicago, Ill. Soda-fountains and parts thereof. No. 141,155; Apr. 12; v. 285; p. 381.
- Knight & Wall Company, Tampa, Fla. Semipaste paint. No. 143,063; May 24; v. 286; p. 847.
- Knight, William T., Jr., Savannah, Ga. Hair-pomade. No. 143,991; June 21; v. 287; p. 580.
- Knights, Fannie, Wichita, Kans. Face-powder. No. 146,792; Sept. 20; v. 290; p. 635.
- Knipe Bros., Inc., Haverhill, Mass. Leather boots and shoes. No. 149,132; Dec. 6.
- Knobbs, Charles H., Philadelphia, Pa. Port-lights. No. 139,154; Jan. 25; v. 282; p. 734.
- Knorr-Schlaudt Wholesale Co., The, Hutchinson, Kans. Workmen's clothes. No. 145,563; Aug. 9; v. 289; p. 408.
- Knost & Dietz Chemical Co., East Cleveland, Ohio. Oily antiseptic to be used on wounds, burns, &c. No. 140,414; Mar. 15; v. 284; p. 582.
- Knott, William C., Shreveport, La. Pneumatic-tire patch. No. 141,154; Apr. 12; v. 285; p. 381.
- Kobb, Anthony, New York, N. Y. Hosiery, knit underwear, sweaters. No. 148,116; Nov. 8.
- Koch, Arthur A., Detroit, Mich. Starting fluid for automobiles, &c. No. 141,587; Apr. 26; v. 285; p. 780.
- Koch, Barbara, Grand Forks, N. D. Poultices for infected wounds. No. 148,878; Nov. 29.
- Koch, Reinhold G., New York, N. Y. Roach-traps. No. 138,983; Jan. 18; v. 282; p. 554.
- Koehler, Robert W., Palisades Park, N. J. Liniment for lumbago, stiff joints, sore throat, &c. No. 140,157; Mar. 8; v. 284; p. 365.
- Koehring Machine Company, assignors to Koehring Company, Milwaukee, Wis. Concrete mixers and distributing machines, loading-skips, paving-machines, traction-graders. No. 149,585; Dec. 13.
- Koehring Machine Company, assignor to Koehring Company, Milwaukee, Wis. Concrete mixers and distributing machines, &c. No. 150,203; Dec. 27.
- Koelble, Peter F., Lyons Farms, N. J. Carbon-remover. No. 140,862; Mar. 29; v. 284; p. 945.
- Koellisch & Fortmann, Inc., New York, N. Y. Pickled, dried, salted, smoked, and canned fish. No. 148,117; Nov. 8.
- Koenig, Harry A., Philadelphia, Pa. Fuel-economizers—namely, air-feeding devices for coal and gas stoves and furnaces. No. 148,879; Nov. 29.
- Koetznner, John J., Philadelphia, Pa. Furniture-polish. No. 142,285; May 10; v. 286; p. 404.
- Kohlman, Chas., & Co., Inc., New York, N. Y. Cotton piece goods. No. 141,156; Apr. 12; v. 285; p. 381.
- Kohn, Leinhardt & Simon, Inc., New York, N. Y. Dresses. No. 148,460; Nov. 15.
- Kohnstamm, H., & Co., New York, N. Y. Cloth covering for laundries, machinery sold in the piece. No. 139,337; Feb. 1; v. 283; p. 170.
- Kohnstamm, H., & Co., New York, N. Y. Paste colors for foods and ingredients. No. 144,596; July 12; v. 288; p. 424.
- Kohnstamm, H., & Co., New York, N. Y. Coal-tar colors. No. 147,122; Oct. 4.
- Kohnstamm, H., & Co., New York, N. Y. Coal-tar dyes. No. 147,123; Oct. 4.
- Kokomo Specialties Mfg. Co., Kokomo, Ind. Roller-cycle of the scooter type. No. 144,190; June 28; v. 287; p. 774.
- Kokomo Specialties Mfg. Co., Kokomo, Ind. Vehicle of the scooter type having runners for traveling on ice. No. 145,396; Aug. 2; v. 289; p. 180.
- Kolar, G. S., Laboratories, Chicago, Ill. Certain toilet preparation. No. 149,133; Dec. 6.
- Kolar, Otto J., Chicago, Ill. Perfume-cream for neutralizing body-odors. No. 138,655; Jan. 4; v. 282; p. 188.
- Kolb, George O., Hartford, Conn. Bread. No. 143,659; June 7; v. 287; p. 185.
- Kollins Chemical Co., Robesonia, Pa. Medicine for kidney, liver, and stomach disorders. No. 143,660; June 7; v. 287; p. 185.
- Kollmorgen Optical Corporation, Brooklyn, N. Y. Lenses for motion-picture projection and similar purposes. Nos. 146,276-7; Sept. 6; v. 290; p. 200.
- Kolynos Company, The, New Haven, Conn. Soap. No. 149,974; Dec. 27.
- Koment, Adolph, Jersey City, N. J. Bread. No. 146,793; Sept. 20; v. 290; p. 635.
- Kommel, A., & Son, New York, N. Y. Hosiery and underwear of knitted and textile fabrics. No. 142,660; May 17; v. 286; p. 630.
- Konishi Kotakudo & Company, New York, N. Y. Watch-crystals. No. 141,588; Apr. 26; v. 285; p. 780.
- Konski, Mark M., New York, N. Y. Blouses. No. 144,322; June 28; v. 287; p. 781.
- Kool Kola Co., Oklahoma, Okla. Non-alcoholic maltless carbonated beverages, syrups for making the same. No. 141,589; Apr. 26; v. 285; p. 780.
- Kops Bros., New York, N. Y. Corsets, brassières, and waists. No. 140,619; Mar. 22; v. 284; p. 745.
- Kops Bros., New York, N. Y. Corsets, brassières, corset-covers, and waists. No. 148,462; Nov. 15.
- Kops, Rae, New York, N. Y. Corsets. No. 138,656; Jan. 4; v. 282; p. 188.
- Kori, John B., Jacksonville, Fla. Hair-tonic. No. 145,973; Aug. 23; v. 289; p. 788.
- Korite Products, Inc. (See Chemical Research Company of America.)
- Kornbrust, Frederick J., St. Johnsville, N. Y. Musical instruments. No. 143,855; June 14; v. 287; p. 400.
- Korrekt Klothies Inc., St. Louis, Mo. Knee-pants, trousers, coats, vests, and overcoats. No. 147,865; Nov. 1.
- Kosofsky, Aaron, New York, N. Y. Dyed fur. No. 143,065; May 24; v. 286; p. 847.
- Kotsavetes, John, Indianapolis, Ind. Candy and chocolate-bars. No. 145,397; Aug. 2; v. 289; p. 180.
- Kovacs, Koloman, Duquesne, Pa. Insecticide powders, liquids, and disinfectants. No. 148,461; Nov. 15.
- Kovis Company, Springfield, Mass. Medicinal preparation—namely, a blood and nerve tonic. No. 141,399; Apr. 19; v. 285; p. 568.
- Krauter & Co. Inc., Newark, N. J. Golf-putters. No. 149,134; Dec. 6.
- Kraft, A. A., Co., The, Los Angeles, Calif. Candy. No. 145,710; Aug. 16; v. 289; p. 594.
- Kraft, Herbert E., Milwaukee, Wis. Antiseptics and dentifrices. No. 140,620; Mar. 22; v. 284; p. 745.
- Kraft, J. L., & Bros. Co., Chicago, Ill. Cheese, and macaroni and cheese. No. 149,789; Dec. 20.
- Kramer, Joseph E., Corporation, Chicago, Ill. Candy. No. 142,661; May 17; v. 286; p. 630.
- Krank, Alfred J., St. Paul, Minn. Hair-shampoo. No. 147,438; Oct. 11.
- Kranzler, Charles, Farmingdale, N. Y. Automobile-polish. No. 142,286; May 10; v. 286; p. 404.
- Krathwohl Mfg. Co., Chicago, Ill. Stepladders. No. 143,380; May 31; v. 286; p. 1050.
- Kraus & Co., Inc., Baltimore, Md. Cigars. No. 142,662; May 17; v. 286; p. 630.
- Krause, Chas. A., Milling Co., Greenfield, Wis. Cracked corn for poultry feed, known as scratch feed. No. 149,691; Dec. 20.
- Krauss Bros. Lumber Co., New Orleans, La. Wooden shingles. No. 143,381; May 31; v. 286; p. 1050.
- Krauss Bros. Lumber Co., New Orleans, La. Wooden shingles. No. 146,794; Sept. 20; v. 290; p. 635.



*Alphabetical list of registrants of trade-marks—Continued.*

- Krauss, Herman, Toledo, Ohio. Malt extracts. No. 140,863; Mar. 29; v. 284; p. 945.
- Krebs, Ida M., San Francisco, Calif. Cough-drops. No. 149,975; Dec. 27.
- Krebs, M. G., Lorain, Ohio. Hair-restorative. No. 149,135; Dec. 6.
- Kreem-Eze Company, The, Roseville, Calif. Shaving-cream. No. 142,881; May 17; v. 286; p. 640.
- Kre-Mo Butter Agitator Company, Wheeling, W. Va. Milk and butter agitators. No. 141,998; May 3; v. 286; p. 186.
- Kretzsch Co., The, Tarentum, Pa. Medicinal preparation. No. 138,986; Jan. 18; v. 282; p. 554.
- Krippendorf, Dittmann Co., The, Cincinnati, Ohio. Ladies' and misses' leather shoes. No. 147,806; Nov. 1.
- Kroehle, Oscar, Cleveland, Ohio. Electrically-lighted signals and parts thereof. No. 146,795; Sept. 20; v. 290; p. 635.
- Krohn-Fechheimer Company, The, Cincinnati, Ohio. Shoes made of leather and canvas. No. 142,663; May 17; v. 286; p. 631.
- Krohn-Fechheimer Co., Cincinnati, Ohio. Ladies' and misses' leather shoes. No. 144,323; June 28; v. 287; p. 781.
- Krohn-Fechheimer Co., The, Cincinnati, Ohio. Ladies' and misses' leather shoes. No. 147,628; Oct. 25.
- Krojer, Steve, Cleveland, Ohio. Cleaning preparation used for cleaning carpets, rugs, and the like. No. 148,682; Nov. 22.
- Krolik, A., & Company, Detroit, Mich., and New York, N. Y. Articles of clothing. No. 141,400; Apr. 19; v. 285; p. 568.
- Kromberger, Alfred M., Boston, Mass. Reconstructive, digestive, and nerve tonic. No. 148,118; Nov. 8.
- Kromer, Geo. J., Jr., South Kaukauna, Wis. Men's caps. No. 140,864; Mar. 29; v. 284; p. 945.
- Kronberger, Alfred M., Boston, Mass. Preparation for the removal of corns. No. 149,976; Dec. 27.
- Krow & Neumann, Marvell, Ark. Wheat-flour. No. 140,865; Mar. 29; v. 284; p. 945.
- Kruger Remedy Company, Brooklyn, N. Y. Medicinal preparations. No. 140,000; Mar. 1; v. 284; p. 174.
- Krupnick, Ellis G., Baltimore, Md. Tooth-paste. No. 149,790; Dec. 20.
- Kubaneck, Ludmila, Lorain, Ohio. Medicine for influenza, colds, cholera, and pneumonia. No. 148,880; Nov. 29.
- Kuehnle, C. Albert, Co., Inc., Philadelphia, Pa. Paints, ready-mixed and in paste form, varnishes, &c. No. 149,423; Dec. 13.
- Kuh Brothers, San Francisco, Calif. Boys' shirts, blouses, washsuits, play-garments, and rompers. No. 147,345; Oct. 11.
- Kuhlback, William F., Fort Wayne, Ind. General tonic made from root, herb, and berry extract. No. 147,006; Sept. 27; v. 290; p. 805.
- Kuhls, Herman B. F., Brooklyn, N. Y. Composition for glazing and for filling seams in woodwork. No. 139,338; Feb. 1; v. 283; p. 170.
- Kuhn, Harry J., Houston, Tex. Paste and liquid paints and painters' enamels, stains, and fillers, and putty. No. 149,977; Dec. 27.
- Kuhn, Harry J., Houston, Tex. Varnishes, stains, lacquers, japan driers, &c. No. 149,978; Dec. 27.
- Kuhnla, August, Inc., Brooklyn, N. Y. Skylights. No. 149,979; Dec. 27.
- Kukac, Edward J., Chicago, Ill. Molds for casting battery parts. No. 149,980; Dec. 27.
- Kullman, Salz & Co., San Francisco, Calif. Hides and leather. No. 141,999; May 3; v. 286; p. 186.
- Kummer, Ed. Limited, Bettlach, Switzerland, and New York, N. Y. Watches, watchcases, watch dials and movements. No. 143,382; May 31; v. 286; p. 1050.
- Kummer, Ed., Limited, Bettlach, Switzerland, and New York, N. Y. Watches, watchcases, watch dials and movements. No. 148,463; Nov. 15.
- Kumyss, Incorporated, New York, N. Y. Kumyss. No. 149,692; Dec. 20.
- Kundeus, Andrew, Endicott, N. Y. Salve for eczema. No. 148,119; Nov. 8.
- Kunstatter Brothers, Chicago, Ill. Brassières. No. 138,762; Jan. 4; v. 282; p. 192.
- Kunz, Marsh & Pendleton, New York, N. Y. Fresh citrus fruits. No. 138,987; Jan. 18; v. 282; p. 554.
- Kurpees, J. F., Paint Company, Louisville, Ky. Mixed and enamel paints, varnish, &c. No. 143,856; June 14; v. 287; p. 400.
- Kurpees, J. F., Paint Company Incorporated, Louisville, Ky. Compound in paste form for patching roofs. No. 147,867; Nov. 1.
- Kurzmann, Erich, New York, N. Y. Certain preserved fruits, jams, jellies, pickles, &c. No. 149,891; Dec. 27.
- Kwix Company, Boston, Mass. Soap and preparation in the nature of soap. No. 147,346; Oct. 11.
- Kyle-Gettys Company, Knoxville, Tenn. Hosiery, underwear of knitted fabric, and sweaters. No. 145,711; Aug. 16; v. 289; p. 594.
- L. G. & S. S. Co., Boston, Mass. Heel-lining repairers. No. 143,253; May 24; v. 286; p. 857.
- L. G. & S. S. Co., Boston, Mass. Heel-cushions and heel-cushion and instep raisers. No. 145,720; Aug. 16; v. 289; p. 595.
- L. G. & S. S. Co., Boston, Mass. Heel-cushions. No. 145,721; Aug. 16; v. 289; p. 595.
- L. G. & S. S. Co., Boston, Mass. Insoles. No. 145,722; Aug. 16; v. 289; p. 595.
- L. G. & S. S. Co., Boston, Mass. Cushion-insoles. No. 145,723; Aug. 16; v. 289; p. 595.
- L. G. & S. S. Co., Boston, Mass. Arch and heel cushions. No. 145,724; Aug. 16; v. 289; p. 595.
- L. G. & S. S. Co., Boston, Mass. Lamb's-wool and satcen quilted soles. No. 145,725; Aug. 16; v. 289; p. 595.
- L. G. & S. S. Co., Boston, Mass. Heel-lining repairers. No. 145,726; Aug. 16; v. 289; p. 595.
- L. & H. Garment Mfg. Co., Dallas, Tex. Middy-blouses, house-dresses, girls' dresses, boys' suits, bungalow-aprons. No. 142,293; May 10; v. 286; p. 405.
- L & W Toe and Heel Savers, Newark, N. J. Toy and heel protectors. No. 149,436; Dec. 13.
- Labor and Industrial Journal Co., Seattle, Wash. Periodical published weekly. No. 140,866; Mar. 29; v. 284; p. 945.
- Lack Manufacturing Company, New York, N. Y. Articles of clothing. No. 141,590; Apr. 26; v. 285; p. 780.
- Laclede-Christy Clay Products Company, St. Louis, Mo. Fire-bricks and fire-tiles. No. 139,954; Feb. 22; v. 283; p. 760.
- Laclede-Christy Clay Products Company, St. Louis, Mo. Fire bricks and tile. No. 142,000; May 3; v. 286; p. 186.
- Laclede-Christy Clay Products Company, St. Louis, Mo. Refractory tiles and bricks for furnaces. No. 142,287; May 10; v. 286; p. 404.
- Laclede-Christy Clay Products Company, St. Louis, Mo. Refractory cement for high-temperature uses. No. 143,067; May 24; v. 286; p. 848.
- Laclede-Christy Clay Products Company, St. Louis, Mo. Fire bricks and tile. No. 144,827; July 19; v. 288; p. 619.
- Laclede-Christy Clay Products Company, St. Louis, Mo. Fire brick and tile. No. 149,982; Dec. 27.
- Laden, Isaac, New York, N. Y. Cotton piece goods—viz., tickings. No. 148,120; Nov. 8.
- Ladish Milling Co., Milwaukee, Wis. Wheat-flour. No. 140,001; Mar. 1; v. 284; p. 174.
- Ladish Milling Co., Milwaukee, Wis. Horse feed. No. 140,002; Mar. 1; v. 284; p. 174.
- Ladish Milling Co., Milwaukee, Wis. Rye-flour. No. 140,415; Mar. 15; v. 284; p. 582.
- Ladish Milling Co., Milwaukee, Wis. Wheat-flour. No. 140,416; Mar. 15; v. 284; p. 582.
- Lady Christabel Company, Norfolk, Va. Talcum powder, facial cream, face-powder, talc, and a tissue-builder. No. 147,007; Sept. 27; v. 290; p. 805.
- La Fay, Arthur J., Toronto, Ontario, Canada. Furnaces, heaters, and boilers equipped with fuel-economizers. No. 146,582; Sept. 13; v. 290; p. 422.
- La Fayette Motors Company, Indianapolis, Ind. Automobiles. No. 142,375; May 10; v. 286; p. 409.
- Ladlin, J. M., Boise, Idaho. Non-alcoholic, maltless beverage. No. 140,158; Mar. 8; v. 284; p. 365.
- La France Laboratories, Inc., New York, N. Y. Liquid shampoo. No. 147,124; Oct. 4.
- La France Manufacturing Co., Cincinnati, Ohio. Liquid detergent for cleaning wearing-apparel, &c. No. 139,720; Feb. 15; v. 283; p. 541.
- La France Novelty Co., Inc. (now by change of name Alphen, Inc.) New York, N. Y. Clothing. No. 141,157; Apr. 12; v. 285; p. 381.
- Laing, Harrar & Chamberlain, Philadelphia, Pa. Shoe-laces. No. 140,278; Mar. 8; v. 284; p. 372.
- Laird, John H., assignor to Laird Manufacturing Company, Louisville, Ky. Electric headlights. No. 148,881; Nov. 29.
- Laird Linen Corporation, New York, N. Y. Toweling, towels, crashes, scarfing, tray-cloths. Nos. 148,121-7; Nov. 8.
- Laird Manufacturing Company. (See Laird, John H., assignor.)
- Lake of the Woods Milling Company, Limited, Montreal, Canada. Wheat-flour. No. 139,563; Feb. 8; v. 283; p. 351.
- Lake of the Woods Milling Co., Limited, Montreal, Quebec, Canada. Wheat-flour. Nos. 140,867-8; Mar. 29; v. 284; p. 945.
- Lake Odessa Canning Co., Lake Odessa, Mich. Canned vegetables and canned apples. No. 143,661; June 7; v. 287; p. 185.
- Lake Odessa Canning Co., Lake Odessa, Mich. Canned fruits and vegetables. No. 144,324; June 28; v. 287; p. 781.
- Lake Hamilton Citrus Growers Association, Lake Hamilton, Fla. Fresh citrus fruits. No. 145,712; Aug. 16; v. 289; p. 594.
- Lakeland Citrus Co., Lakeland, Fla. Fresh citrus fruits. No. 145,129; July 26; v. 288; p. 814.
- Lakeland Phosphate & Fertilizer Company, Wilmington, Del., and Lakeland, Fla. Fertilizers, &c. No. 149,983; Dec. 27.
- Lakeside Biscuit Co., The, Toledo, Ohio. Sugar wafers. No. 143,662; June 7; v. 287; p. 185.
- Lakeside Supply Company, Chicago, Ill. Phonographs. No. 149,316; Dec. 6.
- La-Lo Chemical Company, Providence, R. I. Hardening and waterproofing liquid for treating concrete floors. No. 146,797; Sept. 20; v. 290; p. 635.
- La Manna, Azema & Farnan, New York, N. Y. Sardines. No. 138,988; Jan. 18; v. 282; p. 554.



*Alphabetical list of registrants of trade-marks—Continued.*

- Lamb, T. A., Company, Memphis, Tenn. Coffee. No. 138,657; Jan. 4; v. 282; p. 188.
- Lamb, T. A., Company, Memphis, Tenn. Coffee. No. 139,564; Feb. 8; v. 283; p. 351.
- Lambert Chemical Co., St. Louis, Mo. Cattle, horse, sheep, and hog conditioner. No. 140,159; Mar. 8; v. 284; p. 365.
- Lambert, Ernest L., Lewiston, Me. Soap. No. 139,565; Feb. 8; v. 283; p. 351.
- Lamborn & Co., New York, N. Y. Belting made from canvas, treated canvas, or leather. No. 148,882; Nov. 29.
- La Meda Manufacturing Company, Chicago, Ill. Cold-creamed powders. No. 148,589; Nov. 15.
- La Mode Mills, Elizabeth, N. J., and New York, N. Y. Hosiery. No. 149,317; Dec. 6.
- Lamoreaux, Arthur L., St. Paul, Minn. Devices in the nature of ouija-boards. No. 142,664; May 17; v. 286; p. 631.
- Lamson & Goodnow Manufacturing Company, Shelburne Falls, Mass. Butcher, sticking, and putty knives. No. 141,764; Apr. 26; v. 285; p. 789.
- Lamson Oil Co. Inc., Providence, R. I. Gasolene. No. 148,590; Nov. 15.
- Langagan, Henry J., Clinton, Iowa. Chemical preparation. No. 140,878; Mar. 29; v. 284; p. 946.
- La Nava Cigar Company, Greenville, S. C. Cigars. No. 142,666; May 17; v. 286; p. 631.
- Landers, Frary & Clark, New Britain, Conn., and Connersville, Ind. Electrically-driven apparatus. No. 142,376; May 10; v. 286; p. 409.
- Landers, Frary & Clark, New Britain, Conn. Meat-juice presses and food-choppers. No. 147,225; Oct. 4.
- Landis, Abb L., Nashville, Tenn. Game-board. No. 142,665; May 17; v. 286; p. 631.
- Landis, Roland G., Dayton, Ohio. Typewriter-ribbons. No. 142,377; May 10; v. 286; p. 409.
- Landis, Roland G., Dayton, Ohio. Carbon-paper. No. 149,318; Dec. 6.
- Landsman, Ernestina, New York, N. Y. Liniment. No. 20,650; renewed Jan. 26, 1922.
- Lane, Guy S., Philadelphia, Pa. Automatic oil-cups. No. 143,663; June 7; v. 287; p. 185.
- Lane, Levi G., Los Angeles, Calif. Insecticide. No. 140,160; Mar. 8; v. 284; p. 365.
- Lane, William, Inc., Brooklyn, N. Y. Leather shoes. No. 148,883; Nov. 29.
- Lang Drug Co., The, Seattle, Wash. Skin-lotion. No. 142,001; May 3; v. 286; p. 186.
- Lang, Edward E., & Son, Chicago, Ill. Fresh tomatoes. No. 140,161; Mar. 8; v. 284; p. 366.
- Lang, Edward M., Jersey City, N. J. Burnt coque feathers. No. 138,658; Jan. 4; v. 282; p. 188.
- Lang, Gerhard, Buffalo, N. Y. Fresh and cured meats and lard. No. 144,325; June 28; v. 287; p. 781.
- Lang, Gerhard, Buffalo, N. Y. Fresh, smoked, and salted meats and lard. No. 146,796; Sept. 20; v. 290; p. 635.
- Lang & Pressprich, New Rochelle, N. Y. Toy music-boxes. No. 149,137; Dec. 6.
- Lange Soap Co., San Antonio, Tex. Soap. No. 148,128; Nov. 8.
- Langer, John, Quakertown, Pa. Hair-tonic. No. 142,002; May 3; v. 286; p. 186.
- Langhoff Bros. Co., New Orleans, La. Syrups and molasses for table use. No. 144,597; July 12; v. 288; p. 424.
- Langhoff Bros. Co., New Orleans, La. Syrups and molasses for table use. No. 144,828; July 19; v. 288; p. 619.
- Langhoff Brothers Company, New Orleans, La. Table-syrup. No. 136,659; Jan. 4; v. 282; p. 188.
- Langley & Michaels Co., San Francisco, Calif. Candies. No. 140,417; Mar. 15; v. 284; p. 582.
- Langslow, Harry R., Rochester, N. Y. Desks. No. 149,984; Dec. 27.
- Lanier, Virgil H., Jacksonville, Fla. Fertilizers. No. 142,288; May 10; v. 286; p. 404.
- Langman & Kemp Inc., New York, N. Y. Cod-liver oil. No. 143,383; May 31; v. 286; p. 1050.
- Lanpher, Skinner & Company, St. Paul, Minn. Sheepskin-lined vests. No. 144,326; June 28; v. 287; p. 781.
- La Piana, Chicago, Ill. Deodorants. No. 149,319; Dec. 6.
- Lap-In Compound Company, San Francisco, Calif. Cylinder-grinding compound. No. 148,129; Nov. 8.
- Lapp Insulator Company, Inc., Le Roy, N. Y. Porcelain insulators. No. 140,418; Mar. 15; v. 284; p. 582.
- Larabee Flour Mills Corporation, The, Hutchinson, Kans., and Kansas City, Mo. Wheat-flour. No. 139,566; Feb. 8; v. 283; p. 352.
- Larabee Flour Mills Corporation, The, Hutchinson, Kans. Wheat flour. No. 141,591; Apr. 26; v. 285; p. 781.
- Larabee Flour Mills Corporation, The, Hutchinson, Kans., and Kansas City, Mo. Wheat-flour. No. 142,003; May 3; v. 286; p. 186.
- Larabee Flour Mills Corporation, The, Hutchinson, Kans., and Kansas City, Mo. Wheat-flour. No. 142,215; May 3; v. 286; p. 195.
- Largman, Abraham, Philadelphia, Pa. Dress-belt. No. 148,884; Nov. 29.
- Larkin Co., Buffalo, N. Y. Toilet preparations. No. 139,155; Jan. 25; v. 282; p. 734.
- Larkin Co., Inc., Buffalo, N. Y. Laundry soap. No. 147,787; Nov. 1.
- Laros, R. K., Silk Co., Bethlehem, Pa. Thrown silk. No. 142,004; May 3; v. 286; p. 186.
- Larsen, Martin, Kalamazoo, Mich. Cleaning and polishing compound for automobiles, furniture, &c. No. 140,162; Mar. 8; v. 284; p. 366.
- Larson Tool and Stamping Company, Attleboro, Mass. Certain tools for garage work. No. 147,788; Nov. 1.
- La Rue Medicine Company, Los Angeles, Calif. Liquid composition for the treatment of kidney, bladder, and liver diseases. No. 138,660; Jan. 4; v. 282; p. 188.
- Larus & Brother Company, Richmond, Va. Plug-tobacco. No. 145,509; Aug. 2; v. 289; p. 185.
- Lashbrow Laboratories Co., St. Louis, Mo. Preparation for beautifying and promoting growth of the eyelashes and eyebrows. No. 144,425; July 5; v. 288; p. 194.
- Lash's Products Co., Chicago, Ill. Maltless beverage. No. 141,401; Apr. 19; v. 285; p. 568.
- Lash's Products Co., Chicago, Ill. Maltless beverage. No. 142,005; May 3; v. 286; p. 186.
- Laskin, J., & Sons, New York, N. Y. Brown-dyed rabbit-skins. No. 149,428; Dec. 13.
- La Societe Anonyme des Anciens Etablissements Bernard, Verrierie de Bagneux, Bagneux-sur-Loring, France. Raw glass used for spectacles and optical instruments. Nos. 147,629-30; Oct. 25.
- Lassner & Bamberger Inc., New York, N. Y. Artificial pearls, precious, semiprecious, and imitation jewels. No. 149,586; Dec. 13.
- Las-Stik Patch Mfg. Co., Hamilton, Ohio. Fabric and rubber repair-patches. No. 144,426; July 5; v. 288; p. 194.
- Laurel Hat Co., New York, N. Y. Ladies' trimmed hats. No. 143,664; June 7; v. 287; p. 185.
- Laurence Belting Company, Inc., New York, N. Y. Leather belting, cotton belting, belt-lacing. Nos. 138,989-90; Jan. 18; v. 282; p. 554.
- Lauritsen, Thorwald G., Lynn, Mass. Flavor used in browning any food. No. 148,130; Nov. 8.
- Lauter, Felix, Castleton, N. Y. Phonograph-records. No. 138,661; Jan. 4; v. 282; p. 188.
- Lauter, Felix, Albany, N. Y. Non-metallic washers, friction-rings, and packings. No. 140,869; Mar. 29; v. 284; p. 945.
- La Valliere Co., The, New Orleans, La. Shampoo for the hair. No. 140,420; Mar. 15; v. 284; p. 582.
- La Valliere Company, The, New Orleans, La. Semimedical toilet preparation. No. 140,419; Mar. 15; v. 284; p. 582.
- Law, William, Providence, R. I. Storage batteries. No. 139,156; Jan. 25; v. 282; p. 734.
- Lawden Company, The. (See Sucoo Company, assignor.)
- Lawrence, A. C., Leather Co., Boston, Mass. Shoe parts. No. 143,384; May 31; v. 286; p. 1050.
- Lawrence, A. C., Leather Company, Boston, Mass. Patent-leather. No. 145,713; Aug. 16; v. 289; p. 594.
- Lawrence Canning Co., Rockland, Me. Poultry and stock feeds, fish-meal. No. 141,402; Apr. 19; v. 285; p. 568.
- Lawrence Chemical Co., Marietta, Ohio. Flavorings for food. No. 149,693; Dec. 20.
- Lawrence, David, Inc., Washington, D. C. Newspaper-section. No. 143,992; June 21; v. 287; p. 580.
- Lawrence, David, Incorporated, Washington, D. C. *Nom de plume* used on newspaper articles. Nos. 147,347-8; Oct. 11.
- Lawrence, L., & Co., Newark, N. J. Remanufactured engine-cylinders and parts. No. 140,879; Mar. 29; v. 284; p. 946.
- Lawrence Paper Manufacturing Company, Lawrence, Kans. Paper and fiber boxes. No. 139,340; Feb. 1; v. 283; p. 170.
- Lawson Manufacturing Company, Pittsburgh, Pa. Gas water-heaters and heating-stoves. No. 146,042; Aug. 23; v. 289; p. 793.
- Lax & Burghheimer Corp., New York, N. Y. Hosiery and knitted underwear. No. 141,765; Apr. 26; v. 285; p. 789.
- Lax-Ton-All Co., New York, N. Y. Reconstructive tonic in tablet form. No. 146,278; Sept. 6; v. 290; p. 200.
- Leach, David H., Sacramento, Calif. Talking-machines. No. 149,587; Dec. 13.
- Lears, C. H., & Sons, Baltimore, Md. Mattresses. No. 139,567; Feb. 8; v. 283; p. 352.
- Leathasilk Co., New York, N. Y. Leather in the piece. No. 143,385; May 31; v. 286; p. 1050.
- Leatherman, Benjamin A., Washington, D. C. Preparation for the treatment of protuding, itching, and bleeding piles. No. 146,798; Sept. 20; v. 290; p. 635.
- Leatherwear Company of America, Inc., Middletown, N. Y. Men's, women's, and children's leather belts. No. 143,252; May 24; v. 286; p. 857.
- Lebeis Hosiery Company, Chippewa Falls, Wis. Hosiery. No. 141,766; Apr. 26; v. 285; p. 789.
- Le Benart Import Co. Inc., New York, N. Y. Certain toilet preparations. No. 149,138; Dec. 6.
- Lebolt & Company, Chicago, Ill. Wedding-rings. No. 143,066; May 24; v. 286; p. 847.
- Lebro Manufacturing Co., Pittsburgh, Pa. Insecticide. No. 142,006; May 3; v. 286; p. 186.
- Lebro Mfg. Company, Pittsburgh, Pa. General tonic. No. 140,003; Mar. 1; v. 284; p. 174.
- Leclan's, Paducah, Ky. Hair-pomade and treating-oil. No. 146,114; Aug. 30; v. 289; p. 1014.
- Lederer, Herbert B., Co., New York, N. Y. Vells. No. 139,341; Feb. 1; v. 283; p. 170.



*Alphabetical list of registrants of trade-marks—Continued.*

- Lederer, Herbert B., Co., assignor to Herbert B. Lederer Co., Inc., New York, N. Y. Silk, cotton, &c., piece goods. No. 142,007; May 3; v. 286; p. 186.
- Lee, E. H., Knoxville, Tenn. Preparation for use in promoting the growth of hair, tetter-salve, &c. No. 138,830; Jan. 11; v. 282; p. 377.
- Lee Floor Coverings, Inc., New York, N. Y. Linoleum. No. 140,870; Mar. 29; v. 284; p. 945.
- Lee, Harry A., Kansas City, Mo. Crank-pin re-turning or truing tools. No. 149,139; Dec. 6.
- Lee, Joseph H., Elmira Heights, N. Y. Medicine for coughs, bronchitis, consumption, &c. No. 146,279; Sept. 6; v. 290; p. 200.
- Lee, L. W., & Co., Tampa, Fla. Fresh citrus fruit. No. 143,665; June 7; v. 287; p. 185.
- Lee, Olaf E., Los Angeles, Calif. Medicine used in the treatment of tired and aching feet. No. 143,677; June 7; v. 287; p. 185.
- Lee Spring Company, The, Brooklyn, N. Y. Compression, extension, and torsion springs. No. 139,083; Jan. 18; v. 282; p. 559.
- Lee, William R., Rochester, N. Y. Felt-surfaced shoe polishes and brushes and brushes and dusters for phonographic records. No. 146,799; Sept. 20; v. 290; p. 635.
- Leeco Citrus Growers Association, Fort Myers, Fla. Fresh citrus fruits. No. 142,608; May 17; v. 286; p. 631.
- Leedom, Theodore C., Toledo, Ohio, and Oil City, Pa. Evaporated milk. No. 142,008; May 3; v. 286; p. 186.
- Lees, James, and Sons Company, Bridgeport, Pa. Worsted, woolen, silk, and silk and wool mixed yarns. No. 141,592; Apr. 26; v. 285; p. 781.
- Leggiere, Joseph, Mount Vernon, N. Y. Hair-tonic. No. 145,974; Aug. 23; v. 289; p. 788.
- Legros, Theodore V., Grafton, W. Va. Salve. No. 143,068; May 24; v. 286; p. 848.
- Lehman-Rosenfeld Company, The, Cincinnati, Ohio. Non-alcoholic maltless beverage and extracts for making same. No. 147,494; Oct. 18.
- Lehmann Candy Company, Memphis, Tenn. Candies. No. 140,004; Mar. 1; v. 284; p. 174.
- Lehmann, Geo. A., Paper Company Inc., New York, N. Y. Sheet-paper, particularly in the form of writing-paper and bristol-board. No. 144,427; July 5; v. 288; p. 194.
- Lehner, John, Pittsburgh, Pa. Suction devices for dental plates. No. 149,429; Dec. 13.
- Lehrer, Ph. & Son, New York, N. Y. Woolens in the piece. No. 140,163; Mar. 8; v. 284; p. 366.
- Leighton and Garland, Seattle, Wash. Fireproofing liquids. No. 143,666; June 7; v. 287; p. 185.
- Leinbach, Harvey D., Wyomissing, Pa. Hosiery. No. 145,714; Aug. 16; v. 289; p. 594.
- Leister, Max H., assignor to Ades Product Corporation, Philadelphia, Pa. Non-alcoholic, non-cereal, non-malt beverages. No. 141,160; Apr. 12; v. 285; p. 382.
- Lemann & Cie., Langnau, Bern, Switzerland. Cheese. No. 145,399; Aug. 2; v. 289; p. 180.
- Lembcke, Henry, Chicago, Ill. Salve. No. 139,157; Jan. 25; v. 282; p. 734.
- Lemire, Em. J., Manchester, N. H. Leather-dressing, and certain cleaning preparations. No. 145,130; July 26; v. 288; p. 814.
- Lenitone Laboratories Company, The, Cleveland, Ohio. Foods for infants, invalids, and convalescents. No. 145,975; Aug. 23; v. 289; p. 788.
- Lennox, Elizabeth D., Los Angeles, Calif. Toilet preparation. No. 144,033; June 21; v. 287; p. 581.
- Leo, Albert J., Brooklyn, N. Y. Medicine applied externally to the human body to relieve pain. No. 143,070; May 24; v. 286; p. 848.
- Leonard & Barrows, Middleboro and Boston, Mass. Leather boots and shoes. No. 143,667; June 7; v. 287; p. 185.
- Leopold Desk Company, Burlington, Iowa. Desks. No. 139,459; Feb. 1; v. 283; p. 176.
- Lerch, John H., Co., New York, N. Y. Articles of clothing. No. 145,398; Aug. 2; v. 289; p. 180.
- Lerner Waist Co., The, New York, N. Y. Ladies' blouses. Nos. 145,715-6; Aug. 16; v. 289; pp. 594-5.
- Le Rose Co., The, New York, N. Y. Infants' and children's white and colored coats. No. 141,403; Apr. 19; v. 285; p. 568.
- Le Roy Shirt Co., New York, N. Y. Men's dress-shirts. No. 144,127; June 21; v. 287; p. 588.
- Leschen, A., & Sons Rope Company, St. Louis, Mo. Wire rope. Nos. 146,529-30; Sept. 6; v. 290; p. 218.
- Les Etablissements Poulenc frères Société Anonyme, Paris, France. Medicinal preparation. No. 143,886; May 31; v. 286; p. 1050.
- Leshner, Whitman & Co., Inc., New York, N. Y. Piece goods made with a cotton warp and a filling of wool. Nos. 143,668-70; June 7; v. 287; p. 185.
- Leshner, Whitman & Co., Inc., New York, N. Y. Piece goods. Nos. 145,131-2; July 26; v. 288; p. 814.
- Leshner, Whitman & Co., Inc., New York, N. Y. Certain piece goods. Nos. 148,132-3; Nov. 8.
- Le Sieur, Philias E., Boston, Mass. Syrup for coughs, colds, bronchitis, catarrh, &c. No. 143,071; May 24; v. 286; p. 848.
- Le Sieur, Philias E., Boston, Mass. Preparation for relief of coughs, colds, sore throat, and catarrh. No. 146,280; Sept. 6; v. 290; p. 201.
- Less-Koal Manufacturing Company, Boston, Mass. Powdered composition to be dissolved in water and sprinkled over coal to facilitate combustion. No. 148,683; Nov. 22.
- Lesser, Pincus, New York, N. Y. Ladies' shirtwaists. No. 148,134; Nov. 8.
- Lessmann, Waldemar & Sons, Brooklyn, N. Y. Preparation for restoring hair to its natural color and removing dandruff. No. 148,885; Nov. 29.
- Lester Piano Company, Philadelphia, Pa. Pianos and player-pianos. No. 143,857; June 14; v. 287; p. 400.
- Leukolth G. m. b. H., Saarbrücken, Germany. Mortar, dry mortar, lime, &c. No. 143,387; May 31; v. 286; p. 1050.
- Levarac Paper Products Corporation, New York, N. Y. Certain paper and stationery. No. 148,886; Nov. 29.
- Lever Brothers Company, Cambridge, Mass. Soap dyes. No. 139,158; Jan. 25; v. 282; p. 734.
- Lever Brothers Company, Cambridge, Mass. Cooking compound. No. 141,161; Apr. 12; v. 285; p. 382.
- Levering Coffee Co., The, Baltimore, Md. Coffee. No. 141,593; Apr. 26; v. 285; p. 781.
- Levering Coffee Company, The, Baltimore, Md. Cake-flour. No. 143,388; May 31; v. 286; p. 1050.
- Levi, Isala, Turin, Italy. Certain articles of stationery. No. 148,135; Nov. 8.
- Levin Store Co., Lindsborg, Kans. Roasted coffee. No. 149,985; Dec. 27.
- Levine, Louis J., New York, N. Y. Boots and shoes of leather. No. 144,829; July 19; v. 288; p. 619.
- Levinson Textile Co., Inc., New York, N. Y. Cotton piece goods. No. 149,694; Dec. 20.
- Levis, W. Walter, Chicago, Ill. Mouth-wash. No. 142,009; May 3; v. 286; p. 187.
- Levor, S. M., & Co., New York, N. Y. Silk and cotton piece goods. No. 144,830; July 19; v. 288; p. 619.
- Leyor, Victor, Attica, Ind. Cigars. No. 142,669; May 17; v. 286; p. 631.
- Leyor, Victor, Attica, Ind. Cigars. No. 144,192; June 28; v. 287; p. 774.
- Leyusove, Louis, New York, N. Y. Human and animal hair. No. 149,140; Dec. 6.
- Levy, Al. & Bro., New York, N. Y. Women's blouses. No. 140,621; Mar. 22; v. 284; p. 745.
- Levy, Harris, Omaha, Nebr. Sole-leather. No. 145,717; Aug. 16; v. 289; p. 595.
- Levy, Manasseh, New York, N. Y. Small imported watches. No. 141,771; Apr. 26; v. 285; p. 789.
- Levy, Maurice, New Rochelle, N. Y. Hair-coloring preparation. No. 138,831; Jan. 11; v. 282; p. 377.
- Levy, Maurice, New York, N. Y. Talcum and face powders, cold-cream, rouge, eyebrow-pencils, &c. No. 145,718; Aug. 16; v. 289; p. 595.
- Levy Reichbach & Co. Inc., New York, N. Y. Women's and misses' gowns and frocks. No. 140,526; Mar. 15; v. 284; p. 585.
- Levy, S. J., San Francisco, Calif. Bottle-capping machines. No. 149,588; Dec. 13.
- Levy, Simon D., New York, N. Y. Men's outer suits and overcoats. No. 141,405; Apr. 19; v. 285; p. 568.
- Levy, Walter M., New York, N. Y. Jersey cloth in the piece. No. 148,887; Nov. 29.
- Lew, Samuel W., Chicago, Ill. Men's and youths' suits, coats, vests, and pants. No. 140,880; Mar. 29; v. 284; p. 946.
- Lewin, Louis, Company, Chicago, Ill. Overalls. No. 140,622; Mar. 22; v. 284; p. 745.
- Lewis, A. H., Medicine Company, The, St. Louis, Mo. Medicinal tablets for stomach and liver. No. 148,136; Nov. 8.
- Lewis, Albert D., Los Angeles, Calif. Grape product containing less than one-half of one per cent. of alcohol. No. 138,662; Jan. 4; v. 282; p. 188.
- Lewis Feather Bed & Pillow Co., Nashville, Tenn. Feather beds and pillows. No. 140,421; Mar. 15; v. 284; p. 582.
- Lewis, G. B., Company, Watertown, Wis. Beehives and certain named parts thereof. No. 144,528; July 5; v. 288; p. 199.
- Lewis, Gerstman, & Co., New York, N. Y. Night-shirts and pajamas. No. 142,544; May 17; v. 286; p. 627.
- Lewis, L. H., Company, Dallas, Tex. Certain jewelry. No. 148,137; Nov. 8.
- Lewis, L. H., Company, Dallas, Tex. Certain articles of clothing. No. 148,888; Nov. 29.
- Lewis, Laura B., New York, N. Y. Medicinal preparation for the treatment of rheumatism, &c. No. 145,719; Aug. 16; v. 289; p. 599.
- Lewis, O. I., Albuquerque, N. Mex. External remedy useful in the treatment of eczema and other skin affections. No. 146,800; Sept. 20; v. 290; p. 635.
- Lewis, W. Cary, Chicago, Ill. Journal and like packing. No. 144,598; July 12; v. 288; p. 424.
- Lewis, William N., Abingdon, Ill. Floor-brushes. No. 148,334; Nov. 8.
- Lexington Brewing Company, Lexington, Ky. Non-alcoholic malt beverage. No. 141,594; Apr. 26; v. 285; p. 781.
- Leyendecker, Robert E., assignor to The Araho Co. Inc., New York, N. Y. Extract of hops and malt for preparing soft drinks. No. 149,986; Dec. 27.
- Leyse Aluminum Company, Kewaunee, Wis. Aluminum cooking utensils. No. 149,430; Dec. 13.



- Libbey, W. S., Company, Lewiston, Me. Bed-blankets made of cotton and of a mixture of cotton and wool. No. 149,431; Dec. 13.
- Liberman, Meyer, Vallejo and San Francisco, Calif. Clothing. No. 139,945; Feb. 22; v. 283; p. 759.
- Liberty Baking Company, Pittsburgh, Pa. Bread. No. 141,404; Apr. 19; v. 285; p. 568.
- Liberty Belting Mills, Paterson, N. J. Fabric belting and transmission-lining sets. No. 140,871; Mar. 29; v. 284; p. 945.
- Liberty Candy Company, Grand Rapids, Mich. Candies. No. 146,801; Sept. 20; v. 290; p. 635.
- Liberty & Co., Limited, London, England. Articles of clothing. No. 146,583; Sept. 13; v. 290; p. 422.
- Liberty Maccheroni Mfg. Co., Buffalo, N. Y. Macaroni and vermicelli. No. 145,400; Aug. 2; v. 289; p. 180.
- Liberty Manufacturing Co., The, Baltimore, Md. Articles of clothing. No. 146,281; Sept. 6; v. 290; p. 201.
- Liberty Manufacturing Company, Baltimore, Md. Articles of clothing. No. 148,464; Nov. 15.
- Liberty Mills, Nashville, Tenn. Wheat-flour. No. 143,671; June 7; v. 287; p. 185.
- Liberty Oil Company, Limited, New Orleans, La. Gasolene, kerosene, lubricating oils and greases. No. 148,138; Nov. 8.
- Liberty Orchards Company, Cashmere, Wash. Candy. No. 146,802; Sept. 20; v. 290; p. 635.
- Liberty Paint Co., Inc., New York, N. Y. Putty. No. 149,695; Dec. 20.
- Liberty Paper Co., New York, N. Y. Dress-form sets. No. 149,141; Dec. 6.
- Liberty Products Company, Inc., New York, N. Y. Remedy for headache, colds, and rheumatism. Nos. 145,976-7; Aug. 23; v. 289; p. 788.
- Liberty Shirt Mills, Granite Falls, N. C. Work-shirts. No. 143,672; June 7; v. 287; p. 185.
- Liberty Steel Products Co., Inc., New York, N. Y. Tool and gear steel. No. 142,668; May 17; v. 286; p. 631.
- Lichtentag, Moise, New York, N. Y. Shaving-cream in the form of soap paste. No. 147,228; Oct. 4.
- Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Knives, forks, spatulas, and carver-steels. No. 147,229; Oct. 4.
- Lidseen, Gustave, Chicago, Ill. Cutters for phonograph-needles and the like. No. 145,564; Aug. 9; v. 289; p. 408.
- Liebmann, Adolf, Brooklyn, N. Y. Non-intoxicating cereal maltless beverage. No. 139,342; Feb. 1; v. 283; p. 170.
- Liedel, H. A., & Son, Springfield, Ill. Cornmeal, graham and wholewheat flour, dairy, cattle, &c., feeds. No. 149,432; Dec. 13.
- Liedlke, Robert E., Philadelphia, Pa. Children's dresses, rompers, and middies. No. 147,349; Oct. 11.
- Lifton Mfg. Co., The, New York, N. Y. Brief-cases, music-rolls, portfolios. No. 144,193; June 28; v. 287; p. 774.
- Liggett & Myers Tobacco Co., New York, N. Y. Leaf-tobacco. No. 139,568; Feb. 8; v. 283; p. 352.
- Liggett & Myers Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 142,670; May 17; v. 286; p. 631.
- Liggett & Myers Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 142,676; May 17; v. 286; p. 631.
- Liggett & Myers Tobacco Co., New York, N. Y. Leaf-tobacco. No. 144,240; June 28; v. 287; p. 775.
- Liggett & Myers Tobacco Co., New York, N. Y. Leaf-tobacco. No. 145,401; Aug. 2; v. 289; p. 180.
- Lightning Spark Plug Company, Los Angeles, Calif. Spark-plugs. No. 149,433; Dec. 13.
- Lilly, Chas. H., Co., The, Seattle, Wash. Fertilizer. No. 142,010; May 3; v. 286; p. 187.
- Lilly, Eli, & Company, The, Indianapolis, Ind. Toilet powder. No. 149,910; Dec. 27.
- Lima Cord Sole & Heel Company, The, Lima, Ohio. Soles and heels made of a combination of rubber and fabric. No. 149,142; Dec. 6.
- Lima, Victoria, Mexico, Mexico. Pharmaceutical preparations. No. 144,428; July 5; v. 288; p. 194.
- Lime Cola Co., Montgomery, Ala. Non-alcoholic, maltless extract and syrup for making soft drinks. No. 146,652; Sept. 13; v. 290; p. 428.
- Limestone Phosphate Company, Jersey City, N. J. Laxatives. No. 144,327; June 28; v. 287; p. 781.
- Limpert Bros Inc., New York, N. Y. Table-syrup. No. 139,721; Feb. 15; v. 283; p. 541.
- Lincoln Chemical Company, Minneapolis, Minn. Cleaning and polishing liquids for varnished or enamel surfaces. No. 148,889; Nov. 29.
- Lincoln Dental Mfg. Co., Philadelphia, Pa. Teeth-crowns. No. 148,890; Nov. 29.
- Lincoln, Edward K., New York, N. Y. Auto dri-mist, cedar floor-polish, duck-back wax. No. 147,631; Oct. 25.
- Lincoln, Edward K., New York, N. Y. Cleaning fluids, black-leather polish, auto-top dressing. No. 148,139; Nov. 8.
- Lincoln, Edward K., New York, N. Y. Chemical preparation in tablet form for intensifying gasolene and removing carbon. No. 148,684; Nov. 22.
- Lincoln, Edward K., New York, N. Y. Lubricating-oil. No. 148,891; Nov. 29.
- Lincoln, Edward K., New York, N. Y. Auto-varnish, auto dri-mist, (a polish), cedar floor-polish, &c. No. 149,987; Dec. 27.
- Lincoln Manufacturing Company, Detroit, Mich. Electric art lighting fixtures. No. 146,584; Sept. 13; v. 290; p. 422.
- Lincoln Motor Company, Detroit, Mich. Motor-cars. No. 141,162; Apr. 12; v. 285; p. 382.
- Lincoln Paint & Color Co., Lincoln, Nebr. Paints and painters' materials. No. 139,570; Feb. 8; v. 283; p. 352.
- Lincoln Tire & Rubber Co., Cleveland, Cincinnati, Dayton, &c., Ohio. Rubber vehicle tires, casings, and tubes. No. 146,929; Sept. 20; v. 290; p. 641.
- Lind Drug Co., Orange, N. J. Remedies for coughs, colds, and la grippe. No. 138,991; Jan. 18; v. 282; p. 555.
- Lindahl, Anders, Stockholm, Sweden. Solder combined with a flux. Nos. 142,671-2; May 17; v. 286; p. 631.
- Lindblom, Gustav E., Dolgeville, N. Y. Bread. No. 145,565; Aug. 9; v. 289; p. 408.
- Lindeke, Warner & Sons, Incorporated, St. Paul, Minn. Snap-fasteners. No. 142,289; May 10; v. 286; p. 405.
- Lindeke, Warner & Sons, Incorporated, St. Paul, Minn. Safety-pins. No. 142,290; May 10; v. 286; p. 405.
- Lindemann, Adolf D., New York, N. Y. Perfume, sachet, face-powder, rouge, toilet water. No. 142,012; May 3; v. 286; p. 187.
- Lindenburg Piano Company, The, Columbus, Ohio. Piano-player actions. No. 144,831; July 19; v. 288; p. 619.
- Lindenmeyr, Henry, & Sons, New York, N. Y. Printing and writing paper. No. 140,623; Mar. 22; v. 284; p. 745.
- Linderman Steel & Machine Co., Dayton, Ohio. Electric light and power plants. No. 143,673; June 17; v. 287; p. 185.
- Lindner, Jno., Carlisle, Pa. Women's and misses' boots, shoes, slippers, pumps. No. 141,406; Apr. 19; v. 285; p. 568.
- Lindsborg Milling & Elevator Co., The, Lindsborg, Kans. Kansas hard-wheat flour. No. 142,882; May 17; v. 286; p. 640.
- Lindsborg Milling & Elevator Co., The, Lindsborg, Kans. Kansas hard-wheat flour. No. 148,140; Nov. 8.
- Lindsey Wagon Co., Laurel, Miss. Wagons and skidders. No. 146,531; Sept. 6; v. 290; p. 218.
- Lindstrom, John T., Allentown, Pa. Electrically-operated direction-indicating signals for use on automobiles. No. 139,722; Feb. 15; v. 283; p. 541.
- Line-A-Time Mfg. Co., Inc., Rochester, N. Y. Monthly publication. No. 143,072; May 24; v. 286; p. 848.
- Linen Thread Company, The, New York, N. Y. Linen thread. No. 144,832; July 19; v. 288; p. 619.
- Link, Benjamin, Chicago, Ill. Softener and drier for printers' ink. No. 144,664; July 12; v. 288; p. 428.
- Linker, H. D., Hope, Ark. Poultry food. No. 145,727; Aug. 16; v. 289; p. 595.
- Linney, Edward C., Little Rock, Ark. Ointment. No. 139,343; Feb. 1; v. 283; p. 170.
- Linse, Henry F., Chicago, Ill. Shampoo and dandruff-remover, powder form. No. 148,685; Nov. 22.
- Linsk, Harry J., Philadelphia, Pa. Children's, misses', and ladies' dresses. No. 147,350; Oct. 11.
- Linton, Robert H., New York, N. Y. Cotton and woolen piece goods. No. 139,344; Feb. 1; v. 283; p. 170.
- Linton, Robert H., New York, N. Y. Cotton and woolen piece goods. No. 139,460; Feb. 1; v. 283; p. 176.
- Linton, Robert H., New York, N. Y. Cotton and woolen piece goods. No. 140,881; Mar. 29; v. 284; p. 946.
- Linton, Robert H., New York, N. Y. Cotton and woolen piece goods. No. 141,042; Mar. 29; v. 284; p. 953.
- Lipman, Jacob G., New Brunswick, N. J. Fertilizers. No. 142,013; May 3; v. 286; p. 187.
- Lipman, Jacob G., New Brunswick, N. J. Fungicides, insecticides, and weed-destroyers. No. 145,978; Aug. 23; v. 289; p. 788.
- Lippi, Andrew F., Philadelphia, Pa. Medicine for a general tonic. No. 140,872; Mar. 29; v. 284; p. 945.
- Lippi, Andrew F., Philadelphia, Pa. Medicines used in the treatment of disorders of the blood and as a general tonic. No. 140,873; Mar. 29; v. 284; p. 945.
- Lippmann, Leopold J., assignor to Holdzem Company, Inc., New York, N. Y. Adhesive vermin-exterminator. No. 147,632; Oct. 25.
- Lippman's, Altoona, Pa. Artificial pearls. No. 142,291; May 10; v. 286; p. 405.
- Lippy, John D., Jr., Gettysburg, Pa. Photographic chemical developing compounds. No. 140,422; Mar. 15; v. 284; p. 582.
- Lipschitz, Meyer, New York, N. Y. Leathers. No. 138,992; Jan. 18; v. 282; p. 555.
- Lipshulch, George U., Chicago, Ill. Non-alcoholic beverage. No. 149,988; Dec. 27.
- Lipson & Adelson, New York, N. Y. Ladies', misses', and children's dresses, waists, coats, &c. No. 140,710; Mar. 22; v. 284; p. 750.
- Lipson & Adelson, New York, N. Y. Ladies', misses', and children's dresses, waists, coats, suits, and skirts. No. 145,728; Aug. 16; v. 289; p. 595.
- Liquid Malted Milk Co., Cedar Rapids, Iowa. Malted syrups for food-flavoring. No. 139,569; Feb. 8; v. 283; p. 352.
- Liquid Solder Company, Fort Worth, Tex. Soldering-flux and radiator-soldering solution. No. 143,073; May 24; v. 286; p. 848.
- Liquid Velvet Company, Cincinnati, Ohio. Toilet lotions. No. 147,351; Oct. 11.



*Alphabetical list of registrants of trade-marks—Continued.*

- Listerated Gum Corporation, New York, N. Y. Chewing-gum. No. 143,674; June 7; v. 287; p. 185.
- Listerated Gum Corporation, New York, N. Y. Chewing-gum and candy. No. 145,729; Aug. 16; v. 289; p. 595.
- Litchfield Manufacturing Company, The, Waterloo, Iowa. Manure and straw spreaders, feed-grinders, manure-loaders. No. 146,585; Sept. 13; v. 290; p. 422.
- Litchfield Manufacturing Company, The, Waterloo, Iowa. Manure-spreaders and straw-spreaders. No. 149,143; Dec. 6.
- Lithographers Cooperative Association, Washington, D. C. Safety-paper. No. 148,141; Nov. 8.
- Littauer, Lucius N., New York, N. Y. Polishing preparation and a certain paint and varnish oil. No. 148,142; Nov. 8.
- Littauer Oil Company, Guttenberg, N. J. Edible vegetable oils. No. 144,833; July 19; v. 288; p. 619.
- Little Servant Mfg. Co., Jersey City, N. J. Tablets for washing fabrics of various kinds. No. 149,144; Dec. 6.
- Little Witch Shoe Co., The, Salem, Mass. Infants' and children's boots and shoes. No. 149,145; Dec. 6.
- Littlefield & Steere Co., Knoxville, Tenn. Chocolates and candies. No. 147,230; Oct. 4.
- Living Age Company, The, Boston, Mass. Periodical published weekly. No. 143,993; June 21; v. 287; p. 580.
- Livingston, Jefferson, Chicago, Ill. Tomato-washing machine. No. 149,791; Dec. 20.
- Liverpool Adhesive Paste Co. Ltd., Liverpool, England. Paste. No. 147,633; Oct. 25.
- Livesay, James S., Palo Alto, Calif. Hair-tonic. No. 148,143; Nov. 8.
- Lloyd Brothers, Cincinnati, Ohio. Medicine for hypodermic use for spasm of any part of urinary tract. No. 138,993; Jan. 18; v. 282; p. 555.
- Lloyd Brothers, Cincinnati, Ohio. Medicines. No. 138,994; Jan. 18; v. 282; p. 555.
- Lloyd Garretson Co., Yakima, Wash. Fresh deciduous fruits. No. 146,988; Sept. 27; v. 290; p. 804.
- Lloyd Manufacturing Company, The, Menominee, Mich. Baby-carriages, sulkies, strollers. No. 139,084; Jan. 18; v. 282; p. 559.
- Lloyd, Wallace Co., Davenport, Iowa. Spark-plugs for internal-combustion engines. No. 139,723; Feb. 15; v. 283; p. 541.
- Lloyd, William M., Company, Philadelphia, Pa. Lumber. No. 146,586; Sept. 13; v. 290; p. 422.
- Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 138,663; Jan. 4; v. 282; p. 188.
- Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 145,510; Aug. 2; v. 289; p. 185.
- Locke Shoe Company, Wheeling, W. Va. Infants' and children's shoes, slippers, and moccasins. No. 148,465; Nov. 15.
- Lockhart Spiral Service Leggings, Inc., Brooklyn, N. Y. Spiral puttees. No. 144,834; July 19; v. 288; p. 619.
- Locks, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 148,591; Nov. 15.
- Lockyer, Frank H., Supply Co., Limited, Liverpool, England. Dried herbs for seasoning. No. 138,832; Jan. 11; v. 282; p. 377.
- Locomobile Company of America, The, Bridgeport, Conn., and New York, N. Y. assignor to The Locomobile Company, Bridgeport, Conn. Self-propelled vehicles—namely, trucks. No. 149,146; Dec. 6.
- Locomobile Company, The. (See Locomobile Company of America, The, assignor.)
- Lodge & Shipley Machine Tool Co., The, Cincinnati, Ohio. Lathe-heads. No. 149,589; Dec. 13.
- Loeb, Joseph, Company, Cincinnati, Ohio. Women's, misses', and children's hats. No. 143,675; June 7; v. 287; p. 185.
- Loeb, S. S., & Co., Boston, Mass. Cravats, collars, dress-shirts, negligee shirts, &c. No. 140,423; Mar. 15; v. 284; p. 582.
- Loegler, Chretien, Clifton, N. J., assignor to Monica Textile Corporation. Certain woven fabrics in the piece. No. 148,892; Nov. 29.
- Loesser & Sons, Terre Haute, Ind. Automobile-tires made of rubber, and patches. No. 140,874; Mar. 29; v. 284; p. 945.
- Loewenstern, Ernest, Madrid, Spain. Perfumes. No. 140,164; Mar. 8; v. 284; p. 366.
- Loewer's, V., Gambrinus Brewery Co., New York, N. Y. Non-alcoholic malt beverages. Nos. 142,673-4; May 17; v. 286; p. 631.
- Loewus, G., & Co., Jersey City, N. J. Barley-malt extract. No. 147,008; Sept. 27; v. 290; p. 805.
- Loft, George W., New York, N. Y. Candy. No. 138,995; Jan. 18; v. 282; p. 555.
- Loft Incorporated, New York, N. Y. Candies. No. 149,989; Dec. 27.
- Logan Iron & Steel Company, Philadelphia, Pa. Bar-iron. No. 138,833; Jan. 11; v. 282; p. 377.
- Logan, John F., San Francisco, Calif. Pile remedy. No. 146,113; Aug. 30; v. 289; p. 1014.
- Logee, E. L. Co., Providence, R. I. Certain jewelry. No. 147,634; Oct. 25.
- Loiacano, Sam, Orange, Tex. Medicinal preparation for diarrhea and other diseases of the bowels. No. 144,599; July 12; v. 288; p. 424.
- London, Fannie J., New York, N. Y. Certain toilet preparations. No. 145,730; Aug. 16; v. 289; p. 595.
- Long, E. M., & Sons, Cadiz, Ohio. Wooden gutters and rubber roofing. No. 143,858; June 14; v. 287; p. 400.
- Long Handkerchief Co. Inc., Passaic, N. J., and New York, N. Y. Handkerchiefs. No. 143,812; June 7; v. 287; p. 192.
- Long Handkerchief Co., Inc., Passaic, N. J., and New York, N. Y. Handkerchiefs. No. 143,861; June 14; v. 287; p. 401.
- Long Point Creameries Company, Toledo, Ohio. Concentrated liquid milk product. No. 139,159; Jan. 25; v. 282; p. 734.
- Long, W. H., & Co. Inc., New York, N. Y. Food-colors. No. 140,875; Mar. 29; v. 284; p. 945.
- Longdin-Brugger Co., Inc., Fond du lac, Wis. Automobile-tops and vertically-slidable side-curtain attachments for automobiles. No. 140,425; Mar. 15; v. 284; p. 582.
- Longshore, Jas. H., assignor to Continental Chemical Corporation, Watseka, Ill. Chemical compounds for certain uses. No. 149,990; Dec. 27.
- Longwear Rubber Company, The, Elyria, Ohio. Rubber tires and tubes. No. 146,930; Sept. 20; v. 290; p. 641.
- Lonsdale Company, Providence, R. I. Cotton piece goods. No. 143,254; May 24; v. 286; p. 857.
- Lonsdale Company, Providence, R. I. Cotton goods in the piece. No. 145,403; Aug. 2; v. 289; p. 180.
- Lonsdale Company, Providence, R. I. Cotton goods in the piece. No. 148,144; Nov. 8.
- Loock, Robert C., Baltimore, Md. Clamps for securing tire-rims to wheels of automobiles. No. 143,389; May 31; v. 286; p. 1050.
- Look-See Shop, The, Washington, D. C. Novelties in the form of curios, old prints, embroideries, &c. No. 149,434; Dec. 13.
- Loog, Sidney & Sons, Philadelphia, Pa. Certain named paints and painters' materials. No. 139,210; Jan. 25; v. 282; p. 736.
- Loomis, Frank E., Boston, Mass. Liniment. No. 140,006; Mar. 1; v. 284; p. 174.
- Loony Creek Coal Company, Peevee, Ky., and Detroit, Mich. Coal. Nos. 148,466-7; Nov. 15.
- Loose Wiles Biscuit Company, Long Island City, N. Y. Cakes, crackers, and biscuits. No. 141,596; Apr. 26; v. 285; p. 781.
- Loose-Wiles Biscuit Company, Chicago, Ill. Cakes. No. 143,074; May 24; v. 286; p. 848.
- Loose Wiles Biscuit Company, Long Island City, N. Y. Cakes, crackers, and biscuits. No. 147,789; Nov. 1.
- Loose-Wiles Biscuit Company, Kansas City, Mo. Candy. No. 148,893; Nov. 29.
- Lopes Export Company, assignor to Lopes Export Company, Incorporated, New York, N. Y. Leather. No. 141,595; Apr. 26; v. 285; p. 781.
- Lopez & Co., Philadelphia, Pa. Macaroni. No. 149,991; Dec. 27.
- Lord & Brown, Des Moines, Iowa. Composition rubber cement. No. 147,635; Oct. 25.
- Lord & Taylor, New York, N. Y. Section of a newspaper issued weekly. No. 145,731; Aug. 16; v. 289; p. 595.
- Lord & Taylor, New York, N. Y. Men's dress-shirts. No. 148,145; Nov. 8.
- Lord & Taylor, New York, N. Y. Men's dress-shirts. No. 148,468; Nov. 15.
- Lorette Corset Co., Chicago, Ill. Corsets. No. 148,146; Nov. 8.
- Lorimier, Greenbaum Co. Inc., New York, N. Y. Worsted trimming for use in art-needlework. No. 149,435; Dec. 13.
- Loring, Walter L., Plymouth, Mass. Parlor game played with a board and small pieces or men movable over same. No. 145,402; Aug. 2; v. 289; p. 180.
- Lorraine Car Co., Richmond, Ind. Motor-driven vehicles. No. 145,511; Aug. 2; v. 289; p. 185.
- Lorraine Hosiery Co., New York, N. Y. Gloves, underwear, and hosiery. No. 142,014; May 3; v. 286; p. 187.
- Lorraine Stores Corporation, The, Wilmington, Del., and New York, N. Y. Ladies' blouses. No. 145,732; Aug. 16; v. 289; p. 595.
- Los Angeles Ice & Cold Storage Company, Los Angeles, Calif. Maltless, non-cereal beverages. No. 149,992; Dec. 27.
- Los Angeles Pressed Brick Co., Los Angeles, Calif. Pressed clay products. No. 146,043; Aug. 23; v. 289; p. 793.
- Los Angeles Soap Co., Los Angeles, Calif. Soap. No. 143,813; June 7; v. 287; p. 192.
- Los Angeles Soap Co., Los Angeles, Calif. Laundry soap. No. 147,868; Nov. 1.
- Los Angeles Soap Co., Los Angeles, Calif. Toilet soap. No. 149,320; Dec. 6.
- Los Angeles Soap Company, Los Angeles, Calif. Soaps. No. 145,133; July 26; v. 288; p. 814.
- Louis, Otto F., Bay City, Mich. Antiseptic mouth-wash for treatment and prevention of pyorrhea. No. 148,147; Nov. 8.
- Louisville Cement Company, Louisville, Ky. Portland cement. No. 144,600; July 12; v. 288; p. 424.
- Louisville Paint Mfg. Co., Louisville, Ky. Ready-mixed and paste paints, varnishes, &c. No. 139,611; Feb. 8; v. 283; p. 353.
- Louisville Paint Mfg. Co., Louisville, Ky. Ready-mixed and paste paints, varnishes, &c. No. 145,134; July 26; v. 288; p. 814.
- Louisville Wall Paper Company, Inc., Louisville, Ky. Wall-paper. No. 143,390; May 31; v. 286; p. 1050.
- Lounsbury, Henry B., New York, N. Y. Papers. No. 144,835; July 19; v. 288; p. 619.



*Alphabetical list of registrants of trade-marks—Continued.*

- Love and Kopis Candy Co., West Allis, Wis. Candy. No. 144,836; July 19; v. 288; p. 620.
- Love, Luvenia F., Louisville, Ky. Hair-tonics. No. 139,829; Feb. 22; v. 283; p. 753.
- Lovell, Oscar H., St. Louis, Mo. Medicinal preparation which acts on the liver and bowels. No. 138,996; Jan. 18; v. 282; p. 555.
- Low, Frank E., Paterson, N. J. Hair-nets. No. 146,283; Sept. 6; v. 290; p. 201.
- Lowe Brothers Company, The, Dayton, Ohio. Ready-mixed paints. No. 140,426; Mar. 15; v. 284; p. 582.
- Lowe Brothers Company, The, Dayton, Ohio. Auto-top dressing. No. 150,204; Dec. 27.
- Lowe, Leon P., San Francisco, Calif. Gas or vapor heaters. No. 141,407; Apr. 19; v. 285; p. 568.
- Lowney, Walter M., Company, The, Boston, Mass. Candy. No. 138,997; Jan. 18; v. 282; p. 555.
- Lowney, Walter M., Company, The, Boston, Mass. Candy. No. 140,882; Mar. 29; v. 284; p. 946.
- Lowrey, Luther S., San Francisco, Calif. Candies. No. 147,495; Oct. 18.
- Lowrie, Alfred W., Hartford, Conn. Clay compound for external application for various ailments. No. 142,011; May 3; v. 286; p. 187.
- Lowy Laboratories, Inc., Hoboken and Newark, N. J. Solutions of medicinal arsenical compounds. No. 140,542; Mar. 15; v. 284; p. 586.
- Lowy Laboratory, Inc., Hoboken and Newark, N. J. Medicinal arsenical compounds and products. No. 140,427; Mar. 15; v. 284; p. 582.
- Lox Seal Corporation, The, North Bergen, N. J. Affixable locking-seals. No. 140,281; Mar. 8; v. 284; p. 372.
- Lubelski & Sons Limited, Hunslet, Leeds, England. Clothing. No. 140,877; Mar. 29; v. 284; p. 945.
- Lublin, Kora M., New York, N. Y. Toilet preparations. No. 146,284; Sept. 6; v. 290; p. 201.
- Lubricants Company, The, Dayton, Ohio. Lubricating oils and greases. No. 149,147; Dec. 6.
- Luburg, Charles E., Philadelphia, Pa. Storage batteries. No. 145,404; Aug. 2; v. 289; p. 180.
- Lucey Manufacturing Corporation, New York, N. Y. Oil and gas well drilling or boring apparatus and accessories. No. 144,430; July 5; v. 288; p. 194.
- Ludlow Typograph Company, Chicago, Ill. Typograph mechanism, line-casting and other machines and appliances, and parts thereof. No. 149,590; Dec. 13.
- Ludlum Steel Company, Watervliet, N. Y. Alloy steel, chisel-steel, and alloy chisel-steel. No. 144,194; June 28; v. 287; p. 774.
- Ludlum Steel Company, Watervliet, N. Y. Tool-steel and carbon tool-steel. No. 146,532; Sept. 6; v. 290; p. 218.
- Ludlum Steel Company, Watervliet, N. Y. Rustless steel. No. 146,533; Sept. 6; v. 290; p. 218.
- Ludlum Steel Company, Watervliet, N. Y. Certain steels and alloys used for certain elements. No. 147,226; Oct. 4.
- Ludlum Steel Company, Watervliet, N. Y. Non-corrosive steel. No. 147,227; Oct. 4.
- Ludlum Steel Company, Watervliet, N. Y. Certain steels and alloys used for certain elements. No. 147,459; Oct. 18.
- Ludwig, Arthur I., New York, N. Y. Clothing—namely stockings and socks. No. 147,460; Oct. 18.
- Luedtke, Edward C., La Porte, Ind. Deodorant. No. 144,195; June 28; v. 287; p. 774.
- Luehrmann Hay & Grain Co., St. Louis, Mo. Hen and horse and mule feeds. No. 145,733; Aug. 16; v. 289; p. 595.
- Luehrmann Hay & Grain Co., St. Louis, Mo. Wheat-flour. No. 145,734; Aug. 16; v. 289; p. 595.
- Luff, Jay H., Hudson, N. Y. Veterinary medicines for lameness, tumefactions, &c. No. 144,034; June 21; v. 287; p. 582.
- Luff, Jay H., Hudson, N. Y. Liniment. No. 148,764; Nov. 22.
- Lufkin Rule Company, The, Saginaw, Mich. Measuring rules and tables. Nos. 145,273-4; July 26; v. 288; p. 823.
- Luick, William F., Milwaukee, Wis. Shipping-containers for ice-cream, ices, and frozen custard. No. 147,058; Sept. 27; v. 290; p. 808.
- Lull, R. V., Ithaca, N. Y. Preservative cleaner-polish and restorative for varnished and enameled surfaces. No. 149,993; Dec. 27.
- Lumen Bearing Company, Buffalo, N. Y. Cored and solid bronze bars. No. 141,767; Apr. 26; v. 285; p. 789.
- Luminous Specialty Company, Indianapolis, Ind. Electric-light-diffusing fixtures. No. 146,285; Sept. 6; v. 290; p. 201.
- Lundborg Company Inc., The, New York, N. Y. Perfumes, toilet water and creams, &c. No. 140,876; Mar. 29; v. 284; p. 945.
- Lundy, Wilson & Company Limited, London, England. Asthmatic papers and cigarettes not containing tobacco, being medicated preparations. No. 149,994; Dec. 27.
- Lunkenheimer Company, The, Cincinnati, Ohio. Certain valves, cocks, pipe-fittings, nozzles, &c. No. 148,894; Nov. 29.
- Lunn & Sweet Company, Auburn, Me. Leather shoes and Juliettes. No. 143,376; June 7; v. 287; p. 185.
- Lustig, Elias, New York, N. Y. Men's hats. No. 147,869; Nov. 1.
- Lydon Manufacturing Co., Chicago, Ill. Spark-plug insulators. No. 141,597; Apr. 26; v. 285; p. 781.
- Lynch, Chas. E., Shoe Mfg. Co., Inc., The, New York, N. Y. Boots and shoes made of all leather. No. 142,292; May 10; v. 286; p. 405.
- Lynch, Chas. E., Shoe Mfg. Co., Inc., Poughkeepsie and New York, N. Y. Boots and shoes all of leather. No. 147,870; Nov. 1.
- Lynch, Joseph M., St. Louis, Mo. Medicated toilet powder. No. 140,166; Mar. 8; v. 284; p. 366.
- Lynn, Mary E., Washington, D. C. Hand-drawn express-wagons. No. 149,995; Dec. 27.
- Lynn Rubber Manufacturing Company, Warren, R. I. Arch-supporters and bunion-protectors. No. 146,587; Sept. 13; v. 290; p. 422.
- Lyon & Greenleaf Co., Ligonier, Ind. Wheat-flour. No. 148,592; Nov. 15.
- Lyons, Morris E., St. Louis, Mo. Spark-plugs. No. 147,496; Oct. 18.
- Lyons, Otis R., Kansas City, Mo. Certain medicinal preparations. No. 148,686; Nov. 22.
- Lysle, Edmond, New York, N. Y. Motion-pictures. No. 146,588; Sept. 13; v. 290; p. 422.
- Lysle, J. C. Milling Company, The, Leavenworth, Kans. Self-rising wheat-flour. No. 146,287; Sept. 6; v. 290; p. 201.
- Lytleton, Ollie S., Lexington, Ky. Laxative tablet for colds, coughs, headaches, &c. No. 149,437; Dec. 13.
- M. H. Pharmacal Co., (Inc.), Chicago, Ill. Preparation for removing hair. No. 146,331; Sept. 6; v. 290; p. 202.
- M & K Corset Co., Jackson, Mich. Corsets. No. 140,895; Mar. 29; v. 284; p. 946.
- M & M Company, The, Scranton, Pa. Coats, trousers, vests, and suits for men, women, and children, &c. No. 144,136; June 21; v. 287; p. 589.
- M-R Company, The, Lincoln, Nebr. Timers and commutators. No. 145,421; Aug. 2; v. 289; p. 180.
- M. S. Co., Attleboro, Mass. Jewelers' findings. No. 145,162; July 26; v. 288; p. 815.
- M-Z Pharmacal Co., Brazil, Ind. Medicine used in the treatment of the liver and bowels. No. 148,171; Nov. 8.
- Maag, Edward, New York, N. Y. Upholstery and drapery trimmings. No. 148,895; Nov. 29.
- Maass & Kemper, Incorporated, Baltimore, Md. Household linens, draperies, handkerchiefs, nets, &c. No. 144,839; July 19; v. 288; p. 620.
- Maass & Kemper, Incorporated, Baltimore, Md. Certain named dress-trimmings, &c. No. 145,406; Aug. 2; v. 289; p. 180.
- Maass & Kemper, Incorporated, Baltimore, Md. Certain articles of clothing. No. 145,738; Aug. 16; v. 289; p. 595.
- Maasrichtsche Zinkwit Maatschappij, Maastricht, Netherlands. Paints, whether white or colored, in powder, pasty, or liquid form. Nos. 144,840-1; July 19; v. 288; p. 620.
- Maasrichtsche Zinkwit Maatschappij, Maastricht, Netherlands. White or colored dyestuffs. Nos. 147,353-4; Oct. 11.
- Maatschappij Ago, Amsterdam and Ter Apel, Netherlands. Shuttles, shuttle-pegs, picking band-pegs, creel-pegs, and shuttle-peg pins. No. 149,442; Dec. 13.
- Macbeth, William, Inc., New York, N. Y. Publications usually issued several times a year. No. 142,600; May 17; v. 286; p. 629.
- MacDonald, Arthur, Binghamton, N. Y. Tonic, digestive, laxative, alterative, &c. No. 140,624; Mar. 22; v. 284; p. 745.
- MacDonald, Reuben H., Binghamton, N. Y. Remedy for stomach, kidney, liver, bladder, and blood troubles, &c. No. 149,150; Dec. 6.
- Macey Company, Inc., The, St. Paul, Minn. Articles of clothing. No. 139,461; Feb. 1; v. 283; p. 176.
- Macher, Robert J., New York, N. Y. Watchcases. No. 141,599; Apr. 26; v. 285; p. 781.
- Mack, Thomas, Chicago, Ill. Flooring and flooring materials. No. 145,138; July 26; v. 288; p. 814.
- Mackall, J. H., Co., The, Pittsburgh, Pa. Crackers, cakes, candies. No. 142,015; May 3; v. 286; p. 187.
- MacKay, Francis W., Norwalk, Conn. Outer cover-all garment for children. No. 149,152; Dec. 6.
- Mackaywood Company, The, New Rochelle, N. Y. Raw dry milk. No. 143,679; June 7; v. 287; p. 185.
- Mackenzie, Robt. F., Co., The, Cleveland, Ohio. Candy. No. 143,680; June 7; v. 287; p. 185.
- Mackie Pine Oil Specialty Co., Inc., Covington, La. Disinfectant. No. 139,000; Jan. 18; v. 282; p. 555.
- Mackie Pine Oil Specialty Co., Inc., Covington, La. Thymopine cough-syrup. No. 139,161; Jan. 25; v. 282; p. 734.
- Mackley, Mahomed, Havre, Mont. Preparation for the treatment of rheumatism. No. 140,910; Mar. 29; v. 284; p. 946.
- Maclin, Robert B., Birmingham, Ala. Scalp and hair preparation. No. 139,832; Feb. 22; v. 283; p. 753.
- MacMillan, Frank, Fort Lee, N. J. Skates. No. 146,534; Sept. 6; v. 290; p. 219.
- MacPherson, Warren, Cambridge, Mass. Rubber coats. No. 140,888; Mar. 29; v. 284; p. 946.
- Macungie Silk Company, Macungie, Pa. Blanket-bindings and tapes. No. 149,153; Dec. 6.
- MacX Feed Milling Co., Clinton, Iowa. Stock feed. No. 141,410; Apr. 19; v. 285; p. 568.



*Alphabetical list of registrants of trade-marks—Continued.*

- MacX Feed Milling Co., Clinton, Iowa. Stock feed. No. 142,524; May 17; v. 286; p. 626.
- Macy, K. H., & Co. Inc., New York, N. Y. Long cloth in the piece. No. 140,292; Mar. 8; v. 284; p. 373.
- Macy, R. H., & Co. Inc., New York, N. Y. All-wool blankets. No. 141,600; Apr. 26; v. 285; p. 781.
- Macy, R. H., & Co., Inc., New York, N. Y. Men's hats. No. 143,681; June 7; v. 287; p. 185.
- Macy, R. H., & Co., Inc., New York, N. Y. Opera and field glasses. Nos. 144,197-8; June 28; v. 287; p. 774.
- Macy, R. H., & Co., Inc., New York, N. Y. Hats and caps. No. 147,233; Oct. 4.
- Macy, R. H., & Co. Inc., New York, N. Y. Aprons. No. 149,154; Dec. 6.
- Madame Stella McAllister, Philadelphia, Pa. Preparation for stimulating the growth of hair. No. 145,735; Aug. 16; v. 289; p. 595.
- Maddaloni, Donato, Plainfield, N. J. General tonic. No. 147,009; Sept. 27; v. 290; p. 805.
- Maddock's, Thomas Sons Co., Trenton, N. J. Plumbers' supplies and bathroom trimmings and fittings, &c. No. 142,794; May 17; v. 286; p. 634.
- Madison Chemical Company, Inc., New York, N. Y. Pharmaceutical preparation. No. 146,044; Aug. 23; v. 289; p. 793.
- Madison Tire and Rubber Company, Inc., Buffalo, N. Y. Rubber tires. No. 142,297; May 10; v. 286; p. 405.
- Magee Furnace Company, Inc., Boston, Mass. Stoves, ranges, and portions thereof. No. 138,664; Jan. 4; v. 2; p. 188.
- Magenheim, Jack, Binghamton, N. Y. Polishes and dressings for leather boots and shoes. No. 147,637; Oct. 25.
- Maggi Co., The, Kempthal, Switzerland. Seasonings for improving soups, sauces, gravies, &c. Nos. 149,997-8; Dec. 27.
- Magic Auto Supply Company, Hartford, Conn. Automobile-tire-repair outfits. No. 142,601; May 17; v. 286; p. 629.
- Magic Auto Devices Company, Inc., Lynbrook, N. Y. Vulcanizing-patches. No. 148,472; Nov. 15.
- Magic Beautifier Company, New York, N. Y. Face-powder in paste form. No. 146,806; Sept. 20; v. 290; p. 635.
- Magic Kleno Manufacturing Co., Kansas City, Mo. Paste preparation having detergent and healing properties. No. 145,407; Aug. 2; v. 289; p. 180.
- Magic Manufacturing Co., Chicago, Ill. Dyes combined with soap flakes. No. 139,833; Feb. 22; v. 283; p. 753.
- Magill & Co., Fargo, N. D. Field-seed and seed-grain. No. 143,255; May 24; v. 286; p. 857.
- Magnano, A., Co., Seattle, Wash. Olive-oil. No. 144,328; June 28; v. 287; p. 781.
- Magnavox Company, The, San Francisco, Calif. Loud-speaking telephone instruments and transmitters for music and voice. No. 139,573; Feb. 8; v. 283; p. 332.
- Magnesium Products Co. Inc., New York, N. Y. Furniture-polish. No. 139,574; Feb. 8; v. 283; p. 352.
- Magnesium Products Co. Inc., New York, N. Y. Soap paste. No. 148,473; Nov. 15.
- Magnolia Chemical Company, Houston, Tex. Germicides, insecticides, and disinfectants. No. 138,834; Jan. 11; v. 282; p. 377.
- Magnolia Metal Co., New York, N. Y. Babbitt metal. No. 140,283; Mar. 8; v. 284; p. 372.
- Magnus Fruit Products Co., San Francisco, Calif. Non-alcoholic, maltless beverage. No. 148,688; Nov. 22.
- Magnus, Saul & Henry G. Mosler, Los Angeles, Calif. Foods and ingredients of foods. No. 149,443; Dec. 13.
- Maguire, C. L., Petroleum Co., The, Chicago, Ill. Lubricating-oil. No. 147,497; Oct. 18.
- Maijohm Motors Company, The, Sandusky, Ohio. Automobiles. No. 142,298; May 10; v. 286; p. 405.
- Main Belting Company, Philadelphia, Pa. Machinery belting. No. 142,602; May 17; v. 286; p. 629.
- Main Paper Stock Co., Inc., New York, N. Y. Writing and wrapping paper, mailing and correspondence envelopes, and cardboard. No. 143,392; May 31; v. 286; p. 1050.
- Majestic Lace and Embry. Works, New York, N. Y. Laces and embroideries in the piece. No. 145,408; Aug. 2; v. 289; p. 180.
- Major, Belle M., Detroit, Mich. Rubber patching-stock and transparent cement. No. 147,638; Oct. 25.
- Makepeace, B. L., Incorporated, Boston, Mass. Photolithographic prints. No. 149,792; Dec. 20.
- Makover, Roten & Company, Inc., Baltimore, Md. Men's, youths', and boys' clothing. No. 143,997; June 21; v. 287; p. 580.
- Malcomb & Malcomb, Ashland, Ohio. Leak-curing compound for water-circulating systems. No. 143,393; May 31; v. 286; p. 1050.
- Malleable Iron Range Company, Beaver Dam, Wis. Flue-linings. No. 146,807; Sept. 20; v. 290; p. 635.
- Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 138,835; Jan. 11; v. 282; p. 377.
- Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. Nos. 140,625-6; Mar. 22; v. 284; p. 745.
- Mallinson, H. R., & Co., New York, N. Y. Silk piece goods. Nos. 142,883-4; May 17; v. 286; p. 640.
- Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. Nos. 145,139-44; July 26; v. 288; p. 814.
- Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 146,115; Aug. 30; v. 289; p. 1014.
- Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 146,118; Aug. 30; v. 289; p. 1015.
- Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. Nos. 146,288-90; Sept. 6; v. 290; p. 201.
- Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. Nos. 146,808-9; Sept. 20; v. 290; p. 635.
- Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 147,791; Nov. 1.
- Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 148,153; Nov. 8.
- Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 148,897; Nov. 29.
- Mallon, Michael T., Nashville, Tenn. Automobile-body, furniture, and piano polishing material. No. 145,980; Aug. 23; v. 289; p. 788.
- Malm, William E., Cleveland, Ohio. Adhesive paste. No. 142,603; May 17; v. 286; p. 629.
- Malnigh, John V., Jackson, Mich. Egg substitute. No. 143,394; May 31; v. 286; p. 1050.
- Malone, Edgar E., Cason, Tex. Pharmaceutical preparations. No. 142,016; May 3; v. 286; p. 187.
- Malone & Hyde, Inc., Memphis, Tenn. Table-syrups and molasses. No. 139,575; Feb. 8; v. 283; p. 352.
- Malone & Hyde Inc., Memphis, Tenn. Publications published periodically. No. 149,155; Dec. 6.
- Malouf, B. I., Company, The, Salt Lake City, Utah. Windshield-cleaners of the squeegee type. No. 142,604; May 17; v. 286; p. 629.
- Malper, Victor, New York, N. Y. Certain medicinal preparation. Nos. 148,660-1; Nov. 22.
- Malt-A-Milk Company of America, Kansas City, Mo. Chocolate malted milk. No. 148,898; Nov. 29.
- Malt Diastase Company, New York, N. Y. Non-alcoholic liquid, semiliquid, and concentrated malt extracts. No. 145,409; Aug. 2; v. 289; p. 180.
- Malt-Diastase Company, New York, N. Y. Non-alcoholic malt extracts. No. 148,474; Nov. 15.
- Manasota Lumber Corporation, Manasota, Fla. Building material. No. 138,665; Jan. 4; v. 282; p. 188.
- Manchester, Abram D., Providence, R. I. Natural, artificial, and imitation pearls. No. 142,299; May 10; v. 286; p. 405.
- Manchester Garment Company, Manchester, Ohio. Overalls, jumpers, jackets, and union outer garments for men. No. 140,889; Mar. 29; v. 284; p. 946.
- Manes & Oppenheimer, Inc., New York, N. Y. Clothing. No. 148,475; Nov. 15.
- Mangan & Co., New York, N. Y. Equine fever-powder. No. 141,164; Apr. 12; v. 285; p. 382.
- Mangano Manufacturing Company, Rahway, N. J. Dry colors adapted for use in the manufacture of inks and inking material. No. 141,163; Apr. 12; v. 285; p. 382.
- Mangano Manufacturing Company, Rahway, N. J. Dry colors. No. 147,125; Oct. 4.
- Manhattan Hair Cloth Co., New York, N. Y. Hat-trimming material in the piece woven from horsehair and tinsel. No. 140,627; Mar. 22; v. 284; p. 745.
- Manhattan Rubber Mfg. Co., Passaic, N. J. Rubber and canvas belts and rubber hose. No. 148,154; Nov. 8.
- Manhattan Shirt Co., The, New York, N. Y. Outer and dress shirts, collars, and pajamas. No. 140,890; Mar. 29; v. 284; p. 946.
- Manifold Supplies Company, Brooklyn, N. Y. Carbon paper and typewriter-ribbons. No. 140,284; Mar. 8; v. 284; p. 372.
- Manley, Job R., East Liverpool, Ohio. Non-alcoholic drink made from herbs, roots, barks, fruits, and pepsin. No. 146,653; Sept. 13; v. 290; p. 428.
- Mann, Ferdinand, New York, N. Y. Hosiery. No. 147,355; Oct. 11.
- Mann, Samuel, New York, N. Y. Hosiery. No. 144,432; July 5; v. 288; p. 194.
- Mann, Wm. H., Memphis, Tenn. Wheat-flour. No. 143,395; May 31; v. 286; p. 1050.
- Manning Abrasive Co., Inc., Troy, N. Y. Abrasives coated on cloth or paper, or both. Nos. 142,605-6; May 17; v. 286; p. 629.
- Manning Abrasive Co. Inc., Troy, N. Y. Abrasives coated on cloth or paper, or both. No. 144,842; July 19; v. 288; p. 620.
- Manning, Maxwell & Moore, Inc., New York, N. Y. Drilling and grinding machines, &c. No. 139,576; Feb. 8; v. 283; p. 352.
- Manning, Maxwell & Moore, Inc., New York, N. Y. Cranes. No. 143,998; June 21; v. 287; p. 580.
- Manning, Maxwell & Moore Inc., New York, N. Y. Lathes, planers, slotters, boring-mills, &c. No. 148,155; Nov. 8.
- Manning, Maxwell & Moore, Inc., New York, N. Y. Lathes, planers, slatters, boring-mills, wheel-lathes, car-wheel borers, axle-lathes, &c. No. 149,444; Dec. 13.
- Mansell-Phayre, John, West Cowes, Isle of Wight, England. Window-stands made of wood for displaying goods. No. 142,607; May 17; v. 286; p. 629.
- Mansert, Dr. Otto, San Francisco, Calif. Table beverage composed of malt and figs and flavored with coffee. No. 143,080; May 24; v. 286; p. 848.
- Mansfield Piano Co., New York, N. Y. Pianos and player-pianos. No. 144,602; July 12; v. 288; p. 424.
- Mantle Lamp Company of America, The, Chicago, Ill., assignors to Aladdin Industries, Incorporated, Inc. Insulated vitreous containers. No. 139,944; Feb. 22; v. 283; p. 759.



- Manufacture Metallurgique de Tournus, Tournus, France. Metallic kitchen and cooking utensils. No. 146,291; Sept. 6; v. 290; p. 201.
- Manufacturing Company of America, Philadelphia, Pa. Caudy. No. 149,696; Dec. 20.
- Manufacturing Dealers Company, The, Pittsburg, Kans., and Boston, Mass. Razors. No. 146,590; Sept. 13; v. 290; p. 422.
- Manufacturing, Jewelers Export Company, Incorporated, New York, N. Y. Jewelry and table and hollow ware. No. 149,445; Dec. 13.
- Manville Company, Providence, R. I. Cotton, woolen, silk, and mixed piece goods. No. 140,479; Mar. 15; v. 284; p. 584.
- Mappin & Webb Limited, London and Sheffield, England. Plate-powder. No. 144,603; July 12; v. 288; p. 424.
- Mappin & Webb Limited, London, England. Cutlery and table flat-ware, and nutcrackers. Nos. 149,446-7; Dec. 13.
- Mappin & Webb Limited, London and Sheffield, England. Certain cutlery and table flat-ware and nutcrackers. No. 149,999; Dec. 27.
- Mappin & Webb Limited, London and Sheffield, England. Handles for knives and forks for table use. No. 150,000; Dec. 27.
- Marathon Tire & Rubber Company, The, Cuyahoga Falls, Ohio. Inner tubes for tires. No. 140,480; Mar. 15; v. 284; p. 584.
- Marathon Tire & Rubber Company, The, Cuyahoga Falls, Ohio. Leather, fabric, or rubber belts for supporting outer garments. No. 141,601; Apr. 26; v. 285; p. 781.
- Marathon Tire & Rubber Co., The, Cuyahoga Falls, Ohio. Rubber tires, casings, and tubes. No. 144,433. July 5; v. 288; p. 194.
- Marathon Tire & Rubber Co., Cuyahoga Falls, Ohio. Rubber tires, casings, and tubes. No. 144,859; July 19; v. 288; p. 620.
- Marathon Tire and Rubber Company, The, Cuyahoga Falls, Ohio. Golf-balls and golf-stick grips. No. 149,465; Dec. 13.
- Marathon Underwear Company, The. (See Futurist Company, assignor.)
- Marble Arms & Mfg. Company, Gladstone, Mich. Hunting and fish knives, safety pocket and camp axes. No. 147,234; Oct. 4.
- Marburg Brothers, Inc., New York, N. Y. Steel letter-die punches. No. 146,593; Sept. 13; v. 290; p. 422.
- Marburg Brothers, Inc., New York, N. Y. Certain vehicles, parts, and accessories. No. 149,697; Dec. 20.
- Marchand, Charles, Co., New York, N. Y. Golden-hair wash. No. 144,604; July 12; v. 288; p. 425.
- Marchant Calculating Machine Company, Oakland, Calif. Calculating-machines. No. 149,592; Dec. 13.
- Marciani, Diego, Hackensack, N. J. Candies called caramels. No. 145,145; July 26; v. 288; p. 814.
- Marcus-Casper Corp., Philadelphia, Pa. Dress and negligee shirts. No. 143,075; May 24; v. 286; p. 848.
- Marcy, E. H., Laboratories, Inc., Framingham, Mass. Medicinal preparation. No. 139,001; Jan. 18; v. 282; p. 555.
- Marden, Orth & Hastings Corporation, New York, N. Y.; Boston, Mass.; Chicago, Ill.; Philadelphia, Pa.; Cleveland, Ohio; Seattle, Wash., and San Francisco, Calif. Dyes and dyestuffs. No. 143,076; May 24; v. 286; p. 848.
- Mardon, Frederick S., New York, N. Y. Medicinal preparations. No. 143,077; May 24; v. 286; p. 848.
- Marer, Ralph L., Columbus, Ohio. Salve for tender, sore, torn, or lacerated body-tissues. No. 148,899; Nov. 29.
- Marie Marthe Richard Vve. Grenoville, Asnières, France. Perfumes, toilet waters, face-lotion, face-powder, and brillantines. No. 150,156; Dec. 27.
- Mariet Company, The, Chicago, Ill. Face cream and powder, tooth-paste, rouge, &c. No. 146,117; Aug. 30; v. 289; p. 1014.
- Marietta Manufacturing Company, Point Pleasant, W. Va. Marine steam-engines. No. 145,276; July 26; v. 288; p. 823.
- Marietta Refining Co., The, Marietta, Ohio. Dyestuffs—namely, malachite-green, &c. No. 143,078; May 24; v. 286; p. 848.
- Marine Products Company, Inc., Los Angeles, Calif. Canned fish and other sea-food products. No. 140,169; Mar. 8; v. 284; p. 366.
- Marinette Knitting Mills, Marinette and Oconto, Wis. Knitted sweaters and sweater-coats. No. 139,086; Jan. 18; v. 282; p. 559.
- Marinette Knitting Mills, Marinette, Wis. Knitted sweaters and sweater-coats. No. 139,087; Jan. 18; v. 282; p. 559.
- Marion Insulated Wire & Rubber Co., Marion, Ind. Insulated wires and cables. No. 144,605; July 12; v. 288; p. 425.
- Marion Malleable Iron Works, The, Marion, Ind. Malleable-iron castings. No. 142,301; May 10; v. 286; p. 405.
- Marion Steam Shovel Company, The, Marion, Ohio. Electric shovels. No. 141,294; Apr. 12; v. 285; p. 388.
- Marion Steam Shovel Co., Marion, Ohio. Shovels, dredges, ditchers, &c. No. 141,772; Apr. 26; v. 285; p. 789.
- Marjax Chemical Co., Baltimore, Md. Pile-salve. No. 141,165; Apr. 12; v. 285; p. 382.
- Marjen Company, The, Chicago, Ill. Toilet preparations. No. 139,834; Feb. 22; v. 283; p. 753.
- Markatos, Spiros C., New York, N. Y. Cloth and hat dyes. No. 143,999; June 21; v. 287; p. 580.
- Marko, Paul M., & Co., Inc., Brooklyn, N. Y. Storage batteries. No. 146,535; Sept. 6; v. 290; p. 219.
- Marks, Michael, Philadelphia, Pa. Storage batteries. No. 144,606; July 12; v. 288; p. 425.
- Marks, Ring & Dublin, Inc., New York, N. Y. Veilings, nettings, &c., in the piece. No. 142,300; May 10; v. 286; p. 405.
- Marlborough Coffee Co., Inc., New York, N. Y. Coffee. No. 144,241; June 28; v. 287; p. 775.
- Marnite Food Extract Co., Limited, London, England. Concentrated culinary preparation, being a vegetable extract prepared from the yeast-cell. No. 146,810; Sept. 20; v. 290; p. 635.
- Maroney, John C., Cincinnati, Ohio. Beef, iron, and wine tonic. No. 143,396; May 31; v. 286; p. 1050.
- Marquette Piano Company, The, Chicago, Ill. Pianos, organs, orchestrons, and phonographs. No. 144,434; July 5; v. 288; p. 194.
- Marrus, Isaac I., Scranton, Pa. Suits for men, young men, boys, and children, overcoats, pants, &c. No. 149,156; Dec. 6.
- Marsh Furniture Company, High Point, N. C. Kitchen-cabinets. No. 142,608; May 17; v. 286; p. 629.
- Marsh, Geo., Company, Inc., Raleigh, N. C. Canned fruits and vegetables. No. 145,277; July 26; v. 288; p. 823.
- Marshall Canning Company, Marshalltown, Iowa. Canned vegetables. No. 138,666; Jan. 4; v. 282; p. 188.
- Marshall Canning Co., Marshalltown, Iowa. Breakfast food. No. 142,216; May 3; v. 286; p. 196.
- Marshall Canning Co., Marshalltown, Iowa. Canned vegetables, kraut, and pork and beans. No. 143,682; June 7; v. 287; p. 185.
- Marshall Canning Co., Marshalltown, Iowa. Cereal breakfast food. No. 146,931; Sept. 20; v. 290; p. 642.
- Marshall, Charles L., London, England. Expanded vulcanized rubber for tires, tubes, &c. No. 146,811; Sept. 20; v. 290; p. 635.
- Marshall Field & Company, Chicago, Ill. Cotton-bats. No. 140,047; Mar. 1; v. 284; p. 177.
- Marshall Field & Company, Chicago, Ill. Burlap. No. 141,293; Apr. 12; v. 285; p. 388.
- Marshall Field & Company, Chicago, Ill. Sheets, pillow-cases, bedspreads, &c. No. 141,773; Apr. 26; v. 285; p. 789.
- Marshall Field & Company, Chicago, Ill. Cheese-cloth in the piece. No. 141,774; Apr. 26; v. 285; p. 790.
- Marshall Field & Company, Chicago, Ill. Sheetings. No. 141,775; Apr. 26; v. 285; p. 790.
- Marshall Field & Company, Chicago, Ill. Cotton-bats. Nos. 142,609-11; May 17; v. 286; p. 629.
- Marshall Field & Company, Chicago, Ill. Cotton-bats. No. 143,397; May 31; v. 286; p. 1051.
- Marshall Field & Company, Chicago, Ill. Sheets and pillow-cases. No. 143,814; June 7; v. 287; p. 192.
- Marshall Field & Company, Chicago, Ill. Ticking. No. 144,000; June 21; v. 287; p. 580.
- Marshall Field & Company, Chicago, Ill. Burlap. No. 144,001; June 21; v. 287; p. 581.
- Marshall Field & Company, Chicago, Ill. Cotton-bats. No. 144,002; June 21; v. 287; p. 581.
- Marshall Field & Company, Chicago, Ill. Sheets and pillow-cases. Nos. 144,003-4; June 21; v. 287; p. 581.
- Marshall Field & Company, Chicago, Ill. Piece goods—namely, drill. No. 144,180; June 21; v. 287; p. 588.
- Marshall Field & Company, Chicago, Ill. Bedspreads. No. 144,131; June 21; v. 287; p. 588.
- Marshall Field & Company, Chicago, Ill. Knitting-needles for hand use. No. 144,199; June 28; v. 287; p. 774.
- Marshall Field & Company, Chicago, Ill. Cheviots in the piece. No. 144,843; July 19; v. 288; p. 620.
- Marshall Field & Company, Chicago, Ill. Awning-stripes in the piece. No. 144,844; July 19; v. 288; p. 620.
- Marshall Field & Company, Chicago, Ill. Mosquito-netting in the piece. No. 144,845; July 19; v. 288; p. 620.
- Marshall Field & Company, Chicago, Ill. Long-cloth in the piece. No. 144,846; July 19; v. 288; p. 620.
- Marshall Field & Company, Chicago, Ill. Sheets, pillow-cases, and sheeting. No. 144,847; July 19; v. 288; p. 620.
- Marshall Field & Company, Chicago, Ill. Muslin in the piece. Nos. 144,848-55; July 19; v. 288; p. 620.
- Marshall Field & Company, Chicago, Ill. Bedspreads. No. 145,146; July 26; v. 288; p. 814.
- Marshall Field & Company, Chicago, Ill. Cambric muslin in the piece. No. 145,410; Aug. 2; v. 289; p. 180.
- Marshall Field & Company, Chicago, Ill. Cotton duck in the piece. No. 145,411; Aug. 2; v. 289; p. 180.
- Marshall Field & Company, Chicago, Ill. Canton-flannel, pillow-tubing, and cotton duck in the piece. No. 145,412; Aug. 2; v. 289; p. 180.
- Marshall Field & Company, Chicago, Ill. Muslins in the piece. No. 145,413; Aug. 2; v. 289; p. 180.
- Marshall Field & Company, Chicago, Ill. Bedspreads. No. 145,414; Aug. 2; v. 289; p. 180.
- Marshall Field & Company, Chicago, Ill. Silk goods in the piece. No. 145,415; Aug. 2; v. 289; p. 180.
- Marshall Field & Company, Chicago, Ill. Bedspreads. Nos. 145,663-4; Aug. 16; v. 289; p. 593.
- Marshall Field & Company, Chicago, Ill. Snap-fasteners. No. 146,045; Aug. 23; v. 289; p. 793.



*Alphabetical list of registrants of trade-marks—Continued.*

- Marshall Field & Company, Chicago, Ill. Cotton piece goods. No. 146,221; Sept. 6; v. 290; p. 199.
- Marshall Field & Company, Chicago, Ill. Muslins in the piece. No. 146,222; Sept. 6; v. 290; p. 199.
- Marshall Field & Company, Chicago, Ill. Silverware. No. 146,536; Sept. 6; v. 290; p. 219.
- Marshall Field & Company, Chicago, Ill. Piece goods—namely, cotton duck. No. 146,812; Sept. 20; v. 290; p. 635.
- Marshall Field & Company, Chicago, Ill. Muslins in the piece. No. 146,813; Sept. 20; v. 290; p. 635.
- Marshall Field & Company, Chicago, Ill. Bedspreads. Nos. 146,814-15; Sept. 20; v. 290; p. 635.
- Marshall Field & Company, Chicago, Ill. Piece goods—namely, muslin. No. 147,126; Oct. 4.
- Marshall Field & Company, Chicago, Ill. Bedspreads. No. 147,127; Oct. 4.
- Marshall Field & Company, Chicago, Ill. Sheeting, sheets, and pillow-cases. No. 147,356; Oct. 11.
- Marshall Field & Company, Chicago, Ill. Cloth bags. No. 147,439; Oct. 11.
- Marshall Field & Company, Chicago, Ill. Bedspreads. No. 147,729; Oct. 25.
- Marshall Field & Company, Chicago, Ill. Snap-fasteners. No. 147,792; Nov. 1.
- Marshall Field & Company, Chicago, Ill. Silk skirt-braid. No. 147,793; Nov. 1.
- Marshall Field & Company, Chicago, Ill. Cotton dress fabrics. No. 148,156; Nov. 8.
- Marshall Field & Company, Chicago, Ill. Silk skirt-braid. No. 148,157; Nov. 8.
- Marshall Field & Company, Chicago, Ill. Muslin in the piece and pillow-cases. No. 148,689; Nov. 22.
- Marshall Field & Company, Chicago, Ill. Toilet preparations—namely, cold-cream, toilet water, and talcum powder. No. 149,157; Dec. 6.
- Marshall Field & Company, Chicago, Ill. Skin-lotion. No. 149,158; Dec. 6.
- Marshall Field & Company, Chicago, Ill. Pottery ware. No. 149,321; Dec. 6.
- Marshall Field & Company, Chicago, Ill. Bedspreads. No. 149,448; Dec. 13.
- Marshall Field & Company, Chicago, Ill. Bleached gauze for medicinal and surgical purposes. No. 149,593; Dec. 13.
- Marshall Manufacturing Company, Omaha, Nebr. Fruit-pitting machine. No. 142,613; May 17; v. 286; p. 629.
- Marshall Oil Company, Marshalltown, Iowa. Spark-plugs. No. 141,776; Apr. 26; v. 285; p. 790.
- Marshall Oil Company of Iowa, Marshalltown, Iowa. Lubricating-oils. No. 146,537; Sept. 6; v. 290; p. 219.
- Marshall Oil Company of Iowa, Marshalltown, Iowa. Radiator compounds. No. 148,765; Nov. 22.
- Marshall-Wells Company, Duluth, Minn. Children's sleds and coaster-wagons. No. 142,017; May 3; v. 286; p. 187.
- Marshall-Wells Company, Duluth, Minn. Clocks and watches. No. 142,612; May 17; v. 286; p. 629.
- Marshall-Wells Company, Duluth, Minn. Fishing lines, rods, and reels. No. 149,698; Dec. 20.
- Marshall-Wells Company, Jersey City, N. J., and Duluth, Minn. Coasting sleds and wagons. No. 148,158; Nov. 8.
- Marshall, William T., Marion, Ind. Preparation for dandruff, eczema, &c. No. 145,994; Aug. 23; v. 289; p. 789.
- Marshmallow and Candy Company. (See American Biscuit Company, assignor.)
- Martens & Ketels Milling Co., Sioux City, Iowa. Wheat-flour. No. 145,147; July 26; v. 288; p. 815.
- Martí y Gutiérrez, Seville, Spain. Olive-oil. No. 146,755; Sept. 20; v. 290; p. 634.
- Martin Chemical Company, Pittsburgh, Pa. Novocain, and novocain and epinephrin tablets. No. 141,602; Apr. 26; v. 285; p. 781.
- Martin, Henry, Company, Utica, N. Y. Articles of clothing. No. 140,481; Mar. 15; v. 284; p. 584.
- Martin, J. E., Co., The, Des Moines, Iowa. Toilet preparations. No. 139,162; Jan. 25; v. 282; p. 734.
- Martin, James F., Columbus, Ohio. Liquid tonic used in the treatment of nervous disorders and insomnia. No. 143,079; May 24; v. 286; p. 848.
- Martin Leather Company, Wilmington, Del. Leather. No. 149,449; Dec. 13.
- Martin-Pemberton Company, Chicago, Ill. Canned sausage. No. 139,725; Feb. 15; v. 283; p. 541.
- Martin, Thomas H., Columbus, Ohio. Devices for discharging the contents of collapsible tubes. No. 141,411; Apr. 19; v. 285; p. 568.
- Martin Varnish Company, Chicago, Ill. Wood-stain or floor-dressing. No. 141,603; Apr. 26; v. 285; p. 781.
- Martin, Willard S., Plainfield, Vt. Sheep and cattle. No. 146,292; Sept. 6; v. 290; p. 201.
- Martin, Willard S., Plainfield, Vt. Maple-sugar, fresh milk, cheese, and eggs, &c. No. 147,794; Nov. 1.
- Martínez Brothers, New Orleans, La. Shoes. No. 140,285; Mar. 8; v. 284; p. 372.
- Martínez, Francisco T., Juana Diaz, Porto Rico. Cream to be applied to the skin for removing freckles and spots. No. 145,981; Aug. 23; v. 289; p. 788.
- Martocci, F. A., Macaroni Co., Minneapolis, Minn. Macaroni and other alimentary foods. No. 138,912; Jan. 11; v. 282; p. 381.
- Marui, H., & Co., New York, N. Y. Metal-leaf. No. 146,293; Sept. 6; v. 290; p. 201.
- Marvel Eye Medicine Co., New York, N. Y. Liquid eye medicine. No. 142,018; May 3; v. 286; p. 187.
- Marvin, Charles B., Birmingham, Ala. Non-alcoholic beverage and syrup for the manufacture of same. No. 140,286; Mar. 8; v. 284; p. 373.
- Marx, D. L., Co., Cairo, Ill. Men's and women's overalls, work pants and shirts. No. 148,159; Nov. 8.
- Mascot Stove Manufacturing Co., Chattanooga, Tenn. Gas and coal ranges. No. 149,450; Dec. 13.
- Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candies and chocolates. No. 141,604; Apr. 26; v. 285; p. 781.
- Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. No. 144,856; July 19; v. 288; p. 620.
- Mason Box Company, The, Attleboro Falls, Mass. Mailing-boxes. No. 142,217; May 3; v. 286; p. 196.
- Mason Box Company, Attleboro Falls, Mass. Mailing-boxes. No. 147,498; Oct. 18.
- Mason, John D., Chicago, Ill. Antiseptic, germicide, and medicinal treatment for pyorrhea. No. 150,001; Dec. 27.
- Mason, Volney W., & Co., Inc., Providence, R. I. Hoisting machinery. No. 145,148; July 26; v. 288; p. 815.
- Massachusetts Baking Company, Springfield, Mass. Bakery products. No. 141,167; Apr. 12; v. 285; p. 382.
- Massachusetts Cotton Mills, Lowell and Boston, Mass. Cotton blankets. No. 139,835; Feb. 22; v. 283; p. 753.
- Massasoit Manufacturing Company, Fall River, Mass. Packing. Nos. 138,667-8; Jan. 4; v. 282; p. 188.
- Massasoit Manufacturing Company, Fall River, Mass. Wicking for packing purposes. No. 141,166; Apr. 12; v. 285; p. 382.
- Massasoit Manufacturing Company, Fall River, Mass. Packing. No. 141,605; Apr. 26; v. 285; p. 781.
- Massasoit Manufacturing Company, Fall River, Mass. Mops. No. 142,614; May 17; v. 286; p. 629.
- Massey Concrete Products Corporation, Chicago, Ill. Concrete poles. No. 144,857; July 19; v. 288; p. 620.
- Master Jewelers, Inc., The, New York, N. Y. Jewelry and silverware. No. 140,482; Mar. 15; v. 284; p. 584.
- Master Jewelers, Inc., The, New York, N. Y. Watches. No. 146,294; Sept. 6; v. 290; p. 201.
- Master Music Company, The, Wilmington, Del., and Philadelphia, Pa. Pianos, piano-players, and organs, all electrically controlled. No. 141,168; Apr. 12; v. 285; p. 382.
- Master Rule Mfg. Co., Inc., New York, N. Y. Rules, folding and extension rules. No. 146,538; Sept. 6; v. 290; p. 219.
- Master Tire and Rubber Company, The, Dayton, Ohio. Tires made wholly or partly of rubber or having rubber incorporated therewith. No. 142,615; May 17; v. 286; p. 629.
- Mather, Harold H., Albany, N. Y. Shampoo and hair-tonic. No. 149,594; Dec. 13.
- Mathews, E. L., Candy Company, Wilmington, N. C. Candy. No. 144,666; July 12; v. 288; p. 428.
- Matlson, Isadore, Nashville, Tenn. Hosiery. No. 147,874; Nov. 1.
- Mato Mfg. Co., New York, N. Y. Washing-powder. No. 138,836; Jan. 11; v. 282; p. 377.
- Matranga, Michael, New York, N. Y. Non-alcoholic, non-cereal, maltless beverage. No. 148,690; Nov. 22.
- Matthews, Frederic P., London, England. Bun-tins, aluminum saucepans and stew-pans. No. 147,639; Oct. 25.
- Maurer, Robert. (See Seibert, William, Dr., assignor.)
- Maurice Company, The, Cleveland, Ohio. Prepared chocolate. No. 147,640; Oct. 25.
- Mauro, Joseph, Rochester, N. Y. Liquid preparation for smoothing and dressing the hair and also beneficial as a scalp-tonic. No. 145,982; Aug. 23; v. 289; p. 788.
- Mausert, Otto, San Francisco, Calif. Liver-tonic. No. 150,002; Dec. 27.
- Maxwell Motor Company, Incorporated, Detroit, Mich. Automobiles. No. 141,607; Apr. 26; v. 285; p. 781.
- May Brothers, Memphis, Tenn. Lumber. Nos. 144,435-8; July 5; v. 288; p. 194.
- May, Clarence, Chicago, Ill. Candy. No. 145,476; Nov. 15.
- May Department Stores Company, The, St. Louis, Mo. Hair-nets. No. 147,128; Oct. 4.
- May Evelyn Hat Co., New York, N. Y. Hats for girls. No. 149,159; Dec. 6.
- May Knitting Co., Inc., New York, N. Y. Sweaters, bathing-suits, dresses, and skirts. No. 147,357; Oct. 11.
- May Seed & Nursery Co., Shenandoah, Iowa. Flower garden, and vegetable seeds. No. 140,483; Mar. 15; v. 284; p. 584.
- Mayer, F., Boot & Shoe Co., Milwaukee, Wis. Leather shoes. No. 140,713; Mar. 22; v. 284; p. 751.
- Mayer, G. M., New York, N. Y. Scissors, shears, pocket-knives, and razors. No. 148,900; Nov. 29.
- Mayer & Neuburger Company, Chicago, Ill. Apron-dresses. No. 147,358; Oct. 11.
- Mayflower Mills, Fort Wayne, Ind. Wheat-flower and self-rising wheat-flour. No. 149,451; Dec. 13.
- Maze, W. H., Company, Peru, Ill. Nails. No. 147,235; Oct. 4.
- Mazer Acoustile Company, Philadelphia, Pa. Acoustic appliances. No. 142,019; May 3; v. 286; p. 187.



- Mazlarska, Helen, Buffalo, N. Y. Laxative. No. 140,484; Mar. 15; v. 284; p. 584.
- Mazomul Company, The, Scranton, Pa. Medicinal food tonic. No. 147,010; Sept. 27; v. 290; p. 805.
- Mazurier, Jacques E., Paris, France. Toilet waters, perfumes, &c. No. 148,160; Nov. 8.
- McAdam, Charles, Company, Chicago, Ill. Cleaners for removing grease, rust, and other spots from fabrics. No. 142,594; May 17; v. 286; p. 628.
- McAdams, Joseph P., New York, N. Y. Weekly newspaper. No. 147,790; Nov. 1.
- McAllister, William H., Cogan House, Pa. Caster. No. 140,477; Mar. 15; v. 284; p. 584.
- McArthur, Harold M., & Co. Limited, Liverpool, England. Bark from which tanning substances or extracts are made. No. 143,994; June 21; v. 287; p. 580.
- McArthur, Harold M., & Co. Limited, Liverpool, England. Tanning materials produced from basis derived from coal-tar. No. 145,979; Aug. 23; v. 289; p. 788.
- McArthur, Harold M., & Co. Limited, Liverpool, England. Tanning materials. No. 146,295; Sept. 6; v. 290; p. 201.
- McArthur, Harold M., & Co., Limited, Liverpool, England. Bark from which tanning substances or extracts are made. No. 146,803; Sept. 20; v. 290; p. 635.
- McAvity, T., and Sons Limited, St. John, New Brunswick, Canada. Metal valves for general use. No. 145,135; July 26; v. 288; p. 814.
- McCabe, J. J. Lathe & Machinery Corporation, New York, N. Y. Iron-working spindle-lathes. Nos. 140,883-4; Mar. 29; v. 284; p. 946.
- McCabe Manufacturing Company, Lawrence, Mass. Flanging-machines. No. 138,911; Jan. 11; v. 282; p. 387.
- McCann, H. K., Company New York, N. Y. Prints and illustrations. No. 138,998; Jan. 18; v. 282; p. 555.
- McCann, John J., Co., Burlington, N. J. Footless socks and stockings for use on stumps of amputated limbs. No. 140,282; Mar. 8; v. 284; p. 372.
- McCarthy, Call J., Chicago, Ill. Artificial flies or bugs for fly-fishing. No. 142,595; May 17; v. 286; p. 629.
- McCarthy, Thomas, Poughkeepsie, N. Y. Liver-pills. No. 148,148; Nov. 8.
- McCartney, Alexander B., Marshalltown, Iowa. Candies. No. 148,687; Nov. 22.
- McCarty, Dwight G., Emmetsburg, Iowa. Blank books and forms, files, &c. No. 141,408; Apr. 19; v. 285; p. 568.
- McCaskey Register Company, The, Alliance, Ohio. Filing appliances. No. 146,539; Sept. 6; v. 290; p. 219.
- McCaslin, William E., Cleveland, Ohio. Publication which is published monthly. No. 143,673; June 7; v. 287; p. 185.
- McCawley and Co., Inc., Baltimore, Md. Certain articles of clothing. No. 147,352; Oct. 11.
- McClay, Andrew Jackson, Ottawa, Kans. Hard and soft wheat flour. No. 139,571; Feb. 8; v. 283; p. 352.
- McClure Newspaper Syndicate, New York, N. Y. News articles and news articles on fashions. No. 140,478; Mar. 15; v. 284; p. 584.
- McComas & Goodwin, Pomona, Calif. Device designed to supply moist air into the intake-manifold of gasoline-engines. No. 142,596; May 17; v. 286; p. 629.
- McCord Manufacturing Company, Detroit, Mich. Gaskets. No. 139,345; Feb. 1; v. 283; p. 170.
- McCord Manufacturing Company, Inc., Detroit, Mich. Radiators for motor-vehicles. No. 140,711; Mar. 22; v. 284; p. 750.
- McCord Manufacturing Company, Inc., Detroit, Mich. Gaskets. No. 140,712; Mar. 22; v. 284; p. 751.
- McCord Manufacturing Company, Inc., Detroit, Mich. Force-feed lubricator. No. 141,768; Apr. 26; v. 285; p. 789.
- McCord Manufacturing Company, Inc., Detroit, Mich. Metal-shim stock. No. 141,769; Apr. 26; v. 285; p. 789.
- McCord Manufacturing Company, Inc., Detroit, Mich. Gaskets. No. 143,391; May 31; v. 286; p. 1050.
- McCormick & Co., Baltimore, Md. Salad, mayonnaise, and mustard dressings. No. 139,724; Feb. 15; v. 283; p. 641.
- McCormick & Co., Baltimore, Md. Insect-powders. No. 148,469; Nov. 15.
- McCormick, Raleigh, St. Louis, Mo. Tire-protectors and antiskid-chains. No. 148,335; Nov. 8.
- McCreery, James, & Company, New York, N. Y. Satin piece goods. No. 140,007; Mar. 1; v. 284; p. 174.
- McCrillius Medical Co., Crown Point, Ind. Laxative tablets. No. 149,148; Dec. 6.
- McCrosky Tool Corporation, Meadville, Pa. Machine-tools and tools therefor. No. 139,572; Feb. 8; v. 283; p. 352.
- McCrosky Tool Corporation, Meadville, Pa. Chucks and collets. No. 142,597; May 17; v. 286; p. 629.
- McCrosky Tool Corporation, Meadville, Pa. Reamers. No. 142,598; May 17; v. 286; p. 629.
- McCubbin, John C., Fresno, Calif. Extracted honey and honey in the comb. No. 139,160; Jan. 25; v. 282; p. 734.
- McCuliston, Charles E., Dallas, Tex. Medicinal preparations. No. 140,008; Mar. 1; v. 284; p. 174.
- McCullough, J. Chas., Seed Company, The, Cincinnati, Ohio. Seed. Nos. 140,167-8; Mar. 8; v. 284; p. 366.
- McDermott, Martin, Chicago, Ill. Cleansing compound for cleaning and restoring color to oriental rugs, carpets, &c. No. 148,149; Nov. 8.
- McDonald Bros. Co., Minneapolis, Minn. Cotton, wool, and linen goods in the piece. No. 144,837; July 19; v. 288; p. 620.
- McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Cocoa. No. 139,085; Jan. 18; v. 282; p. 559.
- McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Chocolates and candies. No. 144,126; June 21; v. 287; p. 588.
- McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Chocolate, candies, and cocoa. No. 144,665; July 12; v. 288; p. 428.
- McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Candies, chocolates, and fruit confections. No. 146,804; Sept. 20; v. 290; p. 635.
- McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Candies and chocolates. No. 148,470; Nov. 15.
- McDonald, Louvenia C., Hartsells, Ala. Hair-tonic. No. 149,149; Dec. 6.
- McDougall-Butler Co. Inc., Buffalo, N. Y. Varnish. Nos. 149,438-9; Dec. 13.
- McDougall-Butler Co. Inc., Buffalo, N. Y. Paint enamel. No. 149,440; Dec. 13.
- McDowell, Emma L., Chicago, Ill. Tonics and dressings for treatment of hair and scalp. No. 149,151; Dec. 6.
- McFadden, Bert, Berkeley, Calif. Cleaning and polishing preparation for dental use. No. 144,601; July 12; v. 288; p. 424.
- McGiff, Alexander M., New York, N. Y. Polishing preparation. No. 140,885; Mar. 29; v. 284; p. 946.
- McGill Manufacturing Co., Valparaiso, Ind. Electric-lamp guards. No. 148,150; Nov. 8.
- McGinnis, Edward A., Pittsburgh, Pa. Hair-nets. No. 143,995; June 21; v. 287; p. 580.
- McGraw-Hill Company, Inc., New York, N. Y. Periodical publication. No. 147,636; Oct. 25.
- McGraw Tire & Rubber Company, The, East Palestine, Ohio. Rubber tires and tube. No. 142,294; May 10; v. 286; p. 405.
- McGugin, Albert C., Denver, Col. Rag carpets and rugs. No. 139,830; Feb. 22; v. 283; p. 753.
- McGuire Medicine Co. Inc., The, Huntington, W. Va. General tonic. No. 142,295; May 10; v. 286; p. 405.
- McGuire Medicine Co. Inc., The, Huntington, W. Va. Laxative tonic. No. 142,296; May 10; v. 286; p. 405.
- McIntyre-Burrall Company, Green Bay, Wis. Harness, horse-collars, saddles, &c. No. 139,685; Feb. 8; v. 283; p. 357.
- McIntyre, John J., Hartford, Conn. Steel balls for anti-friction-bearings. No. 138,999; Jan. 18; v. 282; p. 555.
- McIntyre, Joseph J., Brooklyn, N. Y. Medicinal preparation for certain named purposes. No. 144,431; July 5; v. 288; p. 194.
- McIver, M. J., Van Buren, Me. Fresh potatoes. No. 146,589; Sept. 13; v. 290; p. 422.
- McKay, William J., Chicago, Ill. Prepared poultry feed. No. 149,441; Dec. 13.
- McKee Glass Company, Jeannette, Pa. Headlight-lenses. No. 147,231; Oct. 4.
- McKee, Thomas H., New York, N. Y. Neutralizing lubricating compound. No. 140,886; Mar. 29; v. 284; p. 946.
- McKenna Brass & Manufacturing Co. Inc., Pittsburgh, Pa. Certain bottle-treating machines, fruit treating and canning machinery, carbonating-machines. No. 149,591; Dec. 13.
- McKeough, Charles W., Los Angeles, Calif. Vegetable compound for the stomach and liver, kidneys, and blood. No. 148,151; Nov. 8.
- McKibbin, Driscoll & Dorsey, Inc., St. Paul, Minn. Coats. No. 143,996; June 21; v. 287; p. 580.
- McKibbin, Driscoll & Dorsey, Inc., St. Paul, Minn. Men's hats. No. 144,838; July 19; v. 288; p. 620.
- McKibbin, Driscoll & Dorsey, Inc., St. Paul, Minn. Men's hats. No. 145,736; Aug. 16; v. 289; p. 595.
- McKnight, W. F., Haldton, Okla. Laxative cold-tablets. No. 141,409; Apr. 19; v. 285; p. 568.
- McKusick-Towle & Company, Minneapolis, Minn. Candy. No. 146,805; Sept. 20; v. 287; p. 635.
- McLarty, Howard, Monroe, N. C. Pharmaceutical preparation. No. 139,831; Feb. 22; v. 283; p. 753.
- McLean, Harold E., Jacksonville, Fla. Medicinal preparations used for the relief of blood, liver, kidneys, &c. No. 145,737; Aug. 16; v. 289; p. 595.
- McLean, John C., Cleveland, Ohio. Dressing for transmission-band linings. No. 148,152; Nov. 8.
- McLean Tire & Rubber Company, The, Cleveland, Ohio. Rubber and rubberized fabric tires, casings, inner tubes, tire-patches. No. 148,471; Nov. 15.
- McLendon, Abner P., Waco, Tex. Ice-cream. No. 143,719; June 7; v. 287; p. 186.
- McLoughlin, John J., Philadelphia, Pa. Petticoats. No. 141,598; Apr. 26; v. 285; p. 781.
- McMahon, John T., Kansas City, Mo. Solid resilient inner tubing for use in automobile-tires. No. 145,405; Aug. 2; v. 289; p. 180.
- McMahon, Joseph H., Chicago, Ill. Washing-powder. No. 144,196; June 28; v. 287; p. 774.
- McManes, Joseph E., Columbus, Ohio. Medicine in tablet and powder form for nervous and sick headache. No. 142,378; May 10; v. 286; p. 409.
- McMillan, D. E., & Bro., Chicago, Ill. Coal. No. 149,996; Dec. 27.
- McMillan, Oscar J., Prichard, Ala. Nose-spray. No. 140,887; Mar. 29; v. 284; p. 946.



*Alphabetical list of registrants of trade-marks—Continued.*

- McNab Company, The, Bridgeport, Conn. Direction and revolution indicators, revolution-counters, draft-gages, &c. No. 144,129; June 21; v. 287; p. 588.
- McNulty, John J., M. D., assignor to Davies, Rose & Company, Limited, Boston, Mass. Medicinal preparation. No. 147,232; Oct. 4.
- McQuay Norris Mfg. Co., St. Louis, Mo. Engine, automobile, piston, and compressor rings of metal. No. 141,770; Apr. 26; v. 285; p. 789.
- McPhee Cement Company, Scranton, Pa. High-temperature cement. No. 145,136; July 26; v. 288; p. 814.
- McRoskey & Co., San Francisco, Calif. Mattresses. Nos. 147,871-2; Nov. 1.
- Meachem Gear Corporation, The, Syracuse, N. Y. Cut-metal gears, rawhide gears and pinions, &c. No. 144,132; June 21; v. 287; p. 588.
- Mead Cycle Company, Chicago, Ill. Rubber bicycle-tires. No. 142,020; May 3; v. 286; p. 187.
- Mead Johnson & Co., Evansville, Ind. Preparation of the casein of milk used to increase the protein of diets. No. 149,683; Dec. 20.
- Mears, William J., Kansas City, Mo. Preparation for the treatment of insect bites and stings. No. 139,002; Jan. 18; v. 282; p. 555.
- Mechanische Trikotweberei Stuttgart Ludwig Maier & Co., Boblingen, Stuttgart, Germany. Articles of clothing. No. 141,412; Apr. 19; v. 285; p. 568.
- Mecky, A., Company, Philadelphia, Pa. Foot-propelled toy vehicles. No. 150,003; Dec. 27.
- Medco Company, The, Dayton, Ohio. Finger-nail polish. No. 138,837; Jan. 11; v. 282; p. 330.
- Medical Council, The, Philadelphia, Pa. Monthly medical journal. No. 145,566; Aug. 9; v. 289; p. 408.
- Medina Fruit Products Co., Inc., Medina, N. Y. Cider. Nos. 149,452-3; Dec. 13.
- Medlicott Company, The, Windsor Locks, Conn. Wool underwear. No. 149,160; Dec. 6.
- Meehan, Florence B., Chicago, Ill. Mechanical dolls. No. 150,004; Dec. 27.
- Mehl Machine Tool & Die Company, Roselle, N. J. Metal-working jigs, fixtures, dies, &c. No. 139,163; Jan. 25; v. 282; p. 734.
- Meier, B., & Son, New York, N. Y. Smoked and dried meats and dried sausage. No. 146,816; Sept. 20; v. 290; p. 635.
- Meighan, Frank A., Grand Rapids, Mich. Soaps. No. 148,477; Nov. 15.
- Mellicke Calculator Company, Portland, Me., and Chicago, Ill. Pay-roll calculators having hinged cards. No. 144,133; June 21; v. 287; p. 588.
- Melba Manufacturing Company, Chicago, Ill. Perfumes, face-powders, toilet water, &c. No. 148,902; Nov. 29.
- Melcow, Jacob, New York, N. Y. Fermented milk. No. 139,577; Feb. 8; v. 283; p. 352.
- Melcow, Jacob, New York, N. Y. Predigested food and fermented milk preparation. No. 145,149; July 26; v. 288; p. 815.
- Mellier Company, Perfumer, St. Louis, Mo. Toilet preparations and dentifrices. No. 139,003; Jan. 18; v. 282; p. 555.
- Memien & Kuhnert Co., Chicago, Ill. Enamel paints. No. 150,075; Dec. 27.
- Memphis Bread Company, Memphis, Tenn. Bread and cake. No. 144,607; July 12; v. 288; p. 425.
- Mengart Knitting Mills, New York, N. Y. Sweaters, mufflers, caps, and hats for ladies and girls. No. 145,150; July 26; v. 288; p. 815.
- Menley & James Limited, New York, N. Y. Prophylactic and iodine preparations. No. 142,021; May 3; v. 286; p. 187.
- Menley & James, Limited, New York, N. Y. Prophylactic ointment. No. 143,683; June 7; v. 287; p. 185.
- Menominee Motor Truck Co., Clintonville, Wis. Motor-trucks. No. 148,336; Nov. 8.
- Men-Tho-Eze Corporation, Fort Dodge, Iowa. Ointment for treatment of diseases. No. 139,164; Jan. 25; v. 282; p. 734.
- Mentholatam Company, The, Wichita, Kans., and Buffalo, N. Y. Insectifuge. No. 145,739; Aug. 16; v. 289; p. 596.
- Mentholatam Company, The, Wichita, Kans., and Buffalo, N. Y. Certain salve. No. 147,129; Oct. 4.
- Mephisto Products Company, The, Fort Wayne, Ind. Rug, carpet, and tapestry cleaning compound. No. 138,669; Jan. 4; v. 282; p. 188.
- Mercer, Samuel R., Seattle, Wash. Popcorn and nut confectionery. No. 147,011; Sept. 27; v. 290; p. 805.
- Merchant & Evans Company, Philadelphia, Pa. Fire doors and shutters. No. 143,684; June 7; v. 287; p. 185.
- Merck & Co., New York, N. Y. Salicylic-acid ester of salicylic acid. No. 138,838; Jan. 11; v. 282; p. 377.
- Merck & Co., New York, N. Y. Ethylhydrocuprein and its salts. No. 139,165; Jan. 25; v. 282; p. 734.
- Merck & Co., New York, N. Y. Preparation of chlorophyll in tablet form. No. 146,116; Aug. 30; v. 289; p. 1014.
- Merck, Horace R., Asheville, N. C. Medicinal preparation for coughs, colds, &c. No. 142,022; May 3; v. 286; p. 187.
- Mercury Body Corporation, Lexington, Ky. Automobile bodies and underframes. No. 138,670; Jan. 4; v. 282; p. 188.
- Merit Baby Wear Company, New York, N. Y. Infants' sleeping-garments. No. 150,005; Dec. 27.
- Merit Manufacturing Company, Mayfield, Ky. Boys' suits. No. 140,628; Mar. 22; v. 284; p. 745.
- Mermaid Dish Washer Company, Middletown, Conn. Electric dish-washing machines and parts thereof. No. 146,296; Sept. 6; v. 290; p. 201.
- Merrell, William S., Company, The, Cincinnati, Ohio. Laxative compound. No. 139,836; Feb. 22; v. 283; p. 753.
- Merrell, William S., Company, The, Cincinnati, Ohio. Vitamin compound. No. 139,837; Feb. 22; v. 283; p. 753.
- Merrell, William S., Company, The, Cincinnati, Ohio. Medicinal preparation for use as a general tonic. No. 140,485; Mar. 15; v. 284; p. 584.
- Merrell, William S., Company, The, Cincinnati, Ohio. Alkaline rhubarb compound used in various intestinal and stomacic disorders and as a tonic. No. 141,608; Apr. 26; v. 285; p. 781.
- Merrell, William S., Company, The, Cincinnati, Ohio. Hydrastis and iron compound tonic. No. 142,023; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Solution of hydrastin. No. 142,024; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Female-tonic. No. 142,025; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Antiseptic, stimulant, and alterative in the treatment of disordered conditions of the uterus and vagina. No. 142,026; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Chocolate syrup of quinine. No. 142,027; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Liquid compound of formaldehyde, &c. No. 142,028; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Bismuth compound used in diarrhea or various intestinal disorders. No. 142,029; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Syrup for acute and chronic bronchitis, coughs, and colds. No. 142,030; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Sodium and lithium compound salt used as a laxative, cathartic, and cholagogue. No. 142,031; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Antiseptic vaginal suppositories. No. 142,032; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Cascara and chionanthus compound. No. 142,033; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Cordial extract used in nervousness, &c. No. 142,034; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Capsules of ergotin and apioi used as an emmenagogue. No. 142,035; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Tablets for local vaginal and uterine antiseptics. No. 142,036; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Corn-silk and saw-palmetto compound used in urinary and kidney disorders. No. 142,037; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Calisaya and pepsin compound used in acute and chronic indigestion and as a tonic. No. 142,038; May 3; v. 286; p. 187.
- Merrell, William S., Company, The, Cincinnati, Ohio. Castor-oil, emulsified. No. 142,039; May 3; v. 286; p. 188.
- Merrell, William S., Company, The, Cincinnati, Ohio. Castanea compound for use in coughs. No. 142,040; May 3; v. 286; p. 188.
- Merrell, William S., Company, The, Cincinnati, Ohio. Stillingia and lobelia compound used in coughs, colds, &c. No. 143,081; May 24; v. 286; p. 848.
- Merrell, William S., Company, The, Cincinnati, Ohio. Effervescent salt used in migraine, auto-intoxication, and related disorders. No. 143,082; May 24; v. 286; p. 848.
- Merrell, William S., Company, The, Cincinnati, Ohio. Sourwood compound, a diuretic cordial used in urinary and kidney disorders. No. 143,083; May 24; v. 286; p. 848.
- Merrell, William S., Company, The, Cincinnati, Ohio. Compound of phytolacca used in the treatment of sore throat, tonsillitis, &c. No. 143,084; May 24; v. 286; p. 848.
- Merrell, William S., Company, The, Cincinnati, Ohio. Medicinal preparations. No. 143,085; May 24; v. 286; p. 848.
- Merrell, William S., Company, The, Cincinnati, Ohio. Compound of hypophosphites used as a tonic. No. 143,086; May 24; v. 286; p. 848.
- Merrell, William S., Company, The, Cincinnati, Ohio. Medicinal preparations. No. 143,087; May 24; v. 286; p. 848.
- Merrell, William S., Company, The, Cincinnati, Ohio. Iron-salicylate compound for administration in rheumatic affections and as a tonic. No. 143,088; May 24; v. 286; p. 848.



*Alphabetical list of registrants of trade-marks—Continued.*

- Merrell, William S., Company, The, Cincinnati, Ohio. Compound of bromids used as a nerve sedative. No. 143,089; May 24; v. 286; p. 848.
- Merrill Company, The, San Francisco, Calif. Plug-valves. No. 141,609; Apr. 26; v. 285; p. 781.
- Merrill & Mayo Co., Waterville, Me. Wheat-flour, dairy rations, stock feed, &c. No. 149,322; Dec. 6.
- Merrill Process Co., The, Boston, Mass. Oils. No. 139,346; Feb. 1; v. 283; p. 170.
- Merryweather Coffee, Tea & Spice Co., Cincinnati, Ohio. Coffee. No. 141,413; Apr. 19; v. 285; p. 563.
- Merryweather Coffee, Tea & Spice Co., Cincinnati, Ohio. Mixed tea. No. 141,414; Apr. 19; v. 285; p. 568.
- Merryweather Coffee, Tea & Spice Co., Cincinnati, Ohio. Coffee. No. 145,278; July 26; v. 288; p. 823.
- Merz, Carl L., Newark, N. J. Razor-blades, safety-razors, safety-razor handles. No. 147,359; Oct. 11.
- Mesa, Fernando C., Irvington, N. J. Electrical apparatus. No. 141,415; Apr. 19; v. 285; p. 568.
- Messinger, Ralph B., San Diego, Calif. Preparation for preventing the deposit of moisture on show-windows, windshields, &c. No. 145,416; Aug. 2; v. 289; p. 180.
- Metal Lubricant Company, The, Philadelphia, Pa. Soap oil. No. 140,170; Mar. 8; v. 284; p. 366.
- Metal Office Furniture Co., Grand Rapids, Mich. Steel filing cabinets and desks. No. 145,512; Aug. 2; v. 289; p. 185.
- Metal Saw and Machine Company Inc., Springfield, Mass. Metal-cutting band-saw machines. Nos. 144,608-9; July 12; v. 288; p. 425.
- Metaloid Company, Bayonne, N. J. Powder and liquid used in repairing leaks or cracks. No. 143,815; June 7; v. 287; p. 192.
- Metcalf, D. D., Greenville, Ala. Overalls, jumper-coats, and unionalls. Nos. 145,740-1; Aug. 16; v. 289; p. 595.
- Metric Appliance Corporation, New York, N. Y. Pocket ammeters and voltmeters and wattmeters. No. 141,169; Apr. 12; v. 285; p. 382.
- Metro Chocolate Co. Inc., The, Brooklyn, N. Y. Chocolate candy. No. 141,610; Apr. 26; v. 285; p. 781.
- Metropolitan Body Company, The, Bridgeport, Conn. Truck-bodies—namely, autotruck-bodies. No. 145,417; Aug. 2; v. 289; p. 180.
- Metropolitan Sewing Machine Corporation, Nyack, N. Y. Silks, satins, cottons, linens, &c., in the piece. No. 143,256; May 24; v. 286; p. 857.
- Metropolitan-Vickers Electrical Co., Ltd., London, England. Certain meters and instruments of precision. No. 147,384; Oct. 11.
- Metropolitan-Vickers Electrical Company Limited, London, England. Electrical apparatus. No. 148,161; Nov. 8.
- Metz, H. A., Laboratories, Inc., New York, N. Y. Remedy against syphilis, sleeping-sickness, trypanosomiasis, &c. No. 145,742; Aug. 16; v. 289; p. 595.
- Meuer, Henry, New York, N. Y. Hair-nets. No. 145,743; Aug. 16; v. 289; p. 595.
- Meurer Steel Barrel Company, Inc., Brooklyn, N. Y. Shipping vessels. No. 139,578; Feb. 8; v. 283; p. 352.
- Mexican Products Co., Laredo, Tex. Cup-chocolates. No. 145,744; Aug. 16; v. 289; p. 595.
- Meyer Brothers Drug Company, St. Louis, Mo. Medicine, chemicals, and pharmaceutical preparations. No. 147,012; Sept. 27; v. 290; p. 805.
- Meyer, deceased, Trust Estate of Adolph C., Baltimore, Md. Antidote and substitute for tobacco. No. 149,161; Dec. 6.
- Meyer, John H., Silk Mills Co., Northampton borough, Pa., and New York, N. Y., assignor to John H. Meyer & Co., Inc., New York, N. Y. Silk piece goods. No. 144,858; July 19; v. 288; p. 620.
- Meyer, Peter, New York, N. Y. Face-powder and rouge. No. 149,162; Dec. 6.
- Meyer & Rasmussen, Inc., New York, N. Y. Twines made of cotton, silk, ramie, &c., used in textile-weaving. No. 143,090; May 24; v. 286; p. 848.
- Meyer & Stüdel, London, England. Watches, clocks, and parts thereof. Nos. 144,439-40; July 5; v. 288; p. 194.
- Meyerpeter, Stephen J., Chicago, Ill. Fountain-pens, gold pen-points, pocket-clips, and lead-pencils. No. 144,441; July 5; v. 288; p. 194.
- Meyers, J., Stationery & Printing Co. Inc., New York, N. Y. Legal, letter, and writing paper. No. 147,236; Oct. 4.
- Meyers, J. A., & Co., Los Angeles, Calif. Wedding-rings. No. 144,860; July 19; v. 288; p. 620.
- Meyers, W. F., Company, Bedford, Ind. Teeth for stone-saws. No. 148,593; Nov. 15.
- Meyerson-Levine & Company, New York, N. Y. Cravats and neckties. No. 145,745; Aug. 16; v. 289; p. 595.
- Meyrowitz, E. B., Inc., New York, N. Y. Binoculars. No. 140,891; Mar. 29; v. 284; p. 946.
- Mezuo Chemical Company, Montgomery, Ala. Phonograph-record cleaners. No. 141,170; Apr. 12; v. 285; p. 382.
- Mfg. Co. of America, Philadelphia, Pa. Candy. No. 139,579; Feb. 8; v. 283; p. 352.
- Michael Cohen & Co., New York, N. Y. Building-stone. No. 140,097; Mar. 8; v. 284; p. 364.
- Michalitschke Bros. & Co. Inc., San Francisco, Calif. Cigarette-papers. No. 143,816; June 7; v. 286; p. 192.
- Michelson, Israel, New York, N. Y. Women's and misses' hose. No. 147,641; Oct. 25.
- Michelson, Israel, New York, N. Y. Men's socks. No. 148,478; Nov. 15.
- Michelson, Julius, Boston, Mass. Tools for metal-working machinery, &c. No. 148,479; Nov. 15.
- Michigan Chemical Company, Essexville, Mich. Compounds for use in the vulcanization of rubber. No. 146,119; Aug. 30; v. 289; p. 1015.
- Michigan Humus & Chemical Company, Chassell and Klingville, Mich. Fertilizers. No. 150,006; Dec. 27.
- Michigan Malted Milk Co., Jackson, Mich. Malted syrups for food-flavoring. No. 139,580; Feb. 8; v. 283; p. 352.
- Michigan Metal Products Company, Battle Creek, Mich. Door-checks. No. 148,162; Nov. 8.
- Michigan Motor Garment Co., Greenville, Mich. Motor-coats. No. 140,629; Mar. 22; v. 284; p. 745.
- Michigan Spark Plug Co., The, Detroit, Mich. Spark-plugs. No. 143,398; May 31; v. 286; p. 1051.
- Michigan Wire Goods Co., Niles, Mich. Doll beds and cribs. No. 149,699; Dec. 20.
- Middle States Milling Company, Tulsa, Okla. Wheat-flour. No. 140,892; Mar. 29; v. 284; p. 946.
- Middle States Milling Company, Tulsa, Okla. Wheat-flour. No. 141,171; Apr. 12; v. 285; p. 382.
- Middle States Milling Company, Tulsa, Okla. Wheat-flour. No. 142,302; May 10; v. 286; p. 405.
- Middle States Milling Company, Tulsa, Okla. Wheat-flour. No. 143,399; May 31; v. 286; p. 1051.
- Midget Novelty Co. Inc., New York, N. Y. Toy carpet-sweepers. Nos. 145,418-19; Aug. 2; v. 289; p. 180.
- Midland Cereal Products Co., Denver, Colo. Wheat-flour. No. 141,611; Apr. 26; v. 285; p. 781.
- Midland Flour Milling Co., The, Kansas City, Mo. Self-rising wheat-flour and wheat-flour. No. 146,298; Sept. 6; v. 290; p. 201.
- Midland Flour Milling Company, The, Kansas City, Mo. Self-rising flour. Nos. 142,303-5; May 10; v. 286; p. 405.
- Midland Motor Car and Truck Company, Oklahoma, Okla. Motor cars and trucks. No. 145,157; July 26; v. 288; p. 815.
- Midland Playing Card Co., La Fayette, Ind. Playing-cards. No. 149,164; Dec. 6.
- Midland Rubber Co. Ltd., Birmingham, England. Golf-balls. No. 150,007; Dec. 27.
- Mid-West Box Company, Chicago, Ill. Wrappers. No. 142,616; May 17; v. 286; p. 629.
- Midwest Engine Company, Indianapolis, Ind. Acid-resisting alloys. No. 139,167; Jan. 25; v. 282; p. 735.
- Miesenhelder Bros., Palestine, Ill. Wheat-flour. No. 142,041; May 3; v. 286; p. 188.
- Migel, J. A., Inc., New York, N. Y. Hairpins. Nos. 138,671-2; Jan. 4; v. 282; p. 188.
- Migel, J. A., Inc., New York, N. Y. Piece goods and dress fabrics. No. 139,347; Feb. 1; v. 283; p. 170.
- Migel, J. A., Inc., New York, N. Y. Articles of clothing. No. 140,487; Mar. 15; v. 284; p. 584.
- Migel, J. A., Inc., New York, N. Y. Parasols and umbrellas. No. 141,172; Apr. 12; v. 285; p. 382.
- Migel, J. A., Inc., New York, N. Y. Piece goods. No. 141,173; Apr. 12; v. 285; p. 382.
- Migel, J. A., Inc., New York, N. Y. Hairpins. No. 142,042; May 3; v. 286; p. 188.
- Migel, J. A., Inc., New York, N. Y. Toilet preparations. No. 142,885; May 17; v. 286; p. 640.
- Migel, J. A., Inc., New York, N. Y. Clothing. No. 142,886; May 17; v. 286; p. 640.
- Migel, J. A., Inc., New York, N. Y. Parasols and umbrellas. No. 142,887; May 17; v. 286; p. 640.
- Migel, J. A., Inc., New York, N. Y. Silk, cotton, and woolen piece goods and combinations thereof. No. 144,200; June 28; v. 287; p. 774.
- Migel, J. A., Inc., New York, N. Y. Silk, cotton, and woolen piece goods, &c. No. 144,242; June 28; v. 287; p. 775.
- Migel, J. A., Inc., New York, N. Y. Silk, cotton, and woolen piece goods and the combinations thereof. No. 144,861; July 19; v. 288; p. 620.
- Migel, J. A., Inc., New York, N. Y. Certain articles of clothing. No. 145,567; Aug. 9; v. 289; p. 408.
- Migel, J. A., Inc., New York, N. Y. Silk goods in the piece. No. 147,795; Nov. 1.
- Migel, J. A., Inc., New York, N. Y. Woolens, broad silks, velvets, &c., all piece goods. No. 148,163; Nov. 8.
- Migel, J. A., Inc., New York, N. Y. Silk goods in the piece. No. 149,163; Dec. 6.
- Migel, J. A., Inc., New York, N. Y. Broad silk in the piece. No. 149,165; Dec. 6.
- Migel, J. A., Inc., New York, N. Y. Silk goods in the piece. No. 149,166; Dec. 6.
- Migel, J. A., Inc., New York, N. Y. Broad silks in the piece. No. 149,700; Dec. 20.
- Mightybone Corporation of New York, Detroit, Mich. Bonding steels and staying materials. No. 150,245; Nov. 8.
- Mihalovitch Co., The, Cincinnati, Ohio. Tonic used as a blood-builder and nerve-tonic. No. 146,817; Sept. 20; v. 290; p. 635.
- Mikesell & Company, Traverse City, Mich. Cider. No. 139,946; Feb. 22; v. 283; p. 759.
- Mikkelsen, Lars, Seattle, Wash. Fish, canned and cured. No. 143,685; June 7; v. 287; p. 185.



*Alphabetical list of registrants of trade-marks—Continued.*

- Mile-A-Minute, Incorporated, Pittsburgh, Pa. Preparation to be added to gasoline for increasing mileage and preventing carbon. No. 139,004; Jan. 18; v. 282; p. 555.
- Miles, Dr., Medical Company, Elkhart, Ind. Remedy for treatment of the blood, heart, &c. No. 141,782; Apr. 26; v. 285; p. 790.
- Mill and Mine Supply Co., Seattle, Wash. Power-driven pumps, drag-saws, and iron wedges, hammers, &c. No. 149,454; Dec. 13.
- Millbrook Woolen Mills, New York, N. Y. Woolen and cotton piece goods. Nos. 141,778-9; Apr. 26; v. 285; p. 790.
- Millar, David, St. Louis, Mo. Popcorn. No. 140,171; Mar. 8; v. 284; p. 366.
- Miller, Baker & Levene, Baltimore, Md. Middy-blouses, skirts for outer wear, house-dresses, &c. No. 140,488; Mar. 15; v. 284; p. 584.
- Miller, Benjamin F., Philadelphia, Pa. Cookies. No. 145,152; July 26; v. 288; p. 815.
- Miller Bros., Galveston, Tex. Overalls, coats, pants. No. 139,169; Jan. 25; v. 282; p. 735.
- Miller Bros., Galveston, Tex. Coats, vests, trousers, &c. No. 139,848; Feb. 1; v. 283; p. 170.
- Miller Candy Company, Boston, Mass. Candy. No. 140,489; Mar. 15; v. 284; p. 584.
- Miller, Charles H., Dayton, Ohio. Stomach-salts. No. 147,130; Oct. 4.
- Miller, Edward L., Buffalo, N. Y. Aspirin. No. 144,612; July 12; v. 288; p. 425.
- Miller, George L., Cumberland, Md. Lawyer's systematized diary and record ledger-books. No. 147,796; Nov. 1.
- Miller & Gleason, Newport News, Va. Leather belts for supporting wearing-apparel. No. 144,201; June 28; v. 287; p. 774.
- Miller, Hannah J., Camden, N. J. Washing fluids. No. 147,797; Nov. 1.
- Miller & Headley Company, The, Toledo, Ohio. Cotton sheeting, sheets, and pillow-cases. No. 150,009; Dec. 27.
- Miller, Hern J., Fort Wayne, Ind. Laxative preparation. No. 140,893; Mar. 29; v. 284; p. 946.
- Miller, Howard P., Cincinnati, Ohio. Non-alcoholic, maltless beverage made of flavored and colored sugar-syrup. No. 142,043; May 3; v. 286; p. 188.
- Miller, Hyman, Boston, Mass. Foot-powder. No. 147,131; Oct. 4.
- Miller, I., and Sons, Inc., Brooklyn, N. Y. Shoes for women, misses, and children. No. 142,044; May 3; v. 286; p. 188.
- Miller, I., and Sons, Inc., Brooklyn, N. Y. Shoes made of leather, fabrics, and cloth, combinations, &c. No. 143,094; May 24; v. 286; p. 848.
- Miller, I., and Sons, Inc., Brooklyn, N. Y. Shoes for children and infants. No. 145,747; Aug. 16; v. 289; p. 595.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Taffeta in the piece. No. 140,630; Mar. 22; v. 284; p. 745.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Silk goods in the piece. No. 140,631; Mar. 22; v. 284; p. 745.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, &c., goods in the piece. No. 140,632; Mar. 22; v. 284; p. 745.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Silk goods in the piece. No. 140,633; Mar. 22; v. 284; p. 745.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Madras in the piece. No. 140,634; Mar. 22; v. 284; p. 745.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Silk goods and mixtures of silk and linen in the piece. No. 140,635; Mar. 22; v. 284; p. 746.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Taffeta in the piece. No. 140,636; Mar. 22; v. 284; p. 746.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Piqué in the piece. No. 140,637; Mar. 22; v. 284; p. 746.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, &c., goods, all in the piece. No. 140,638; Mar. 22; v. 284; p. 746.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Silk in the piece. No. 140,639; Mar. 22; v. 284; p. 746.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, &c., goods, all in the piece. No. 140,640; Mar. 22; v. 284; p. 746.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Crape in the piece. No. 140,641; Mar. 22; v. 284; p. 746.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Madras in the piece. No. 140,642; Mar. 22; v. 284; p. 746.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, &c., goods, all in the piece. No. 140,643; Mar. 22; v. 284; p. 746.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, linen, &c., goods in the piece. No. 140,644; Mar. 22; v. 284; p. 746.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Taffeta in the piece. No. 140,645; Mar. 22; v. 284; p. 746.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, linen, &c., goods in the piece. No. 140,646; Mar. 22; v. 284; p. 746.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Satin in the piece. No. 140,647; Mar. 22; v. 284; p. 746.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, linen, silk, &c., goods in the piece. Nos. 140,648-9; Mar. 22; v. 284; p. 746.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Textile piece goods. Nos. 142,045-8; May 3; v. 286; p. 188.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Silk goods and mixtures of silk and linen in the piece. No. 143,092; May 24; v. 286; p. 848.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Crepe in the piece made of silk and a mixture of silk and cotton. No. 143,093; May 24; v. 286; p. 848.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, linen and mixtures of cotton and silk and linen and silk piece goods. No. 143,401; May 31; v. 286; p. 1051.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Certain textile goods in the piece. No. 148,337; Nov. 8.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Piece goods of cotton, silk, linen mixtures of cotton and silk, and of silk and linen. No. 148,594; Nov. 15.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, and linen goods, and mixtures of cotton, silk, and linen. No. 150,008; Dec. 27.
- Miller, Janie, Birmingham, Ala. Remedy for scalps and for the hair. No. 140,172; Mar. 8; v. 284; p. 366.
- Miller-Lambert Chemical Co. Inc., Columbia, S. C. Face and cold creams, vanishing cream, and hair-dressing. No. 144,442; July 5; v. 288; p. 194.
- Miller Lock Company, Philadelphia, Pa. Locks. No. 141,043; Mar. 29; v. 284; p. 953.
- Miller, Louise, West Somerville, Mass. Prevention of excessive perspiration. No. 142,049; May 3; v. 286; p. 188.
- Miller Manufacturing Company, The, Lincoln, Nebr. Preparation for the treatment and removal of warts and moles. No. 143,520; May 31; v. 286; p. 1055.
- Miller-McConnel Grain Co., Kansas City, Kans. Stock feed. No. 143,400; May 31; v. 286; p. 1051.
- Miller, Norman B., New York, N. Y. Machinery packings consisting of a composition of canvas fabric and rubber. No. 140,894; Mar. 29; v. 284; p. 946.
- Miller Pasteurizing Machine Company, The, (now by change of name The H. H. Miller Industries Company,) Canton, Ohio. Certain dairy machinery. Nos. 144,134-5; June 21; v. 287; pp. 588-9.
- Miller Pasteurizing Machine Company, (now by change of name The H. H. Miller Industries Company,) Canton, Ohio. Ice-cream freezers, batch-tanks for ice-cream freezers, cooling and holding tanks, &c. No. 145,513; Aug. 2; v. 289; p. 185.
- Miller, Reynhold, Las Vegas, Nev. Soap. No. 142,050; May 3; v. 286; p. 188.
- Miller, Robert E., Inc., New York, N. Y. Rubber heels. No. 142,579; May 10; v. 286; p. 409.
- Miller Rubber Company, The, Akron, Ohio. Surgical, dental and medical supplies. No. 139,170; Jan. 25; v. 282; p. 735.
- Miller Rubber Company, The, Akron, Ohio. Rubber sponges and sponge-rubber. No. 140,714; Mar. 22; v. 284; p. 751.
- Miller Rubber Company, The, Akron, Ohio. Articles of clothing. No. 142,380; May 10; v. 286; p. 409.
- Miller Rubber Company, The, Akron, Ohio. Rubber sponges. No. 143,091; May 24; v. 286; p. 848.
- Miller Rubber Company, The, Akron, Ohio. Toy balloons and sponge-rubber balls. No. 145,894; Aug. 16; v. 289; p. 602.
- Miller Rubber Company, The, Akron, Ohio. Belts for personal wear. No. 147,642; Oct. 25.
- Miller Rubber Company, The, Akron, Ohio. Dolls. No. 149,455; Dec. 13.
- Miller Saw-Trimmer Company, Pittsburgh, Pa. Printers' machinery. No. 139,349; Feb. 1; v. 283; p. 170.
- Miller, Solomon S., Reading, Pa. Ladies' misses' and children's hosiery. No. 141,780; Apr. 26; v. 285; p. 790.
- Miller, T. R., Mill Company, Brewton, Ala. Wooden boxes and packing-cases. No. 140,287; Mar. 8; v. 284; p. 373.
- Miller, W. Stewart, Derby, Conn. Sugar-cane-cutting machinery. No. 148,165; Nov. 8.
- Miller, W. Y., Schuylkill Haven, Pa. Infants' and children's leather shoes. No. 147,360; Oct. 11.
- Miller, Wesley L., Toledo, Ohio. Paints and painters' materials. No. 142,051; May 3; v. 286; p. 188.
- Miller-West Company, Dayton, Ohio. Automobile-heater utilizing explosive-engine-exhaust heat. No. 149,167; Dec. 6.
- Millers Falls Paper Company, Millers Falls, Mass. Printing and writing papers. No. 141,295; Apr. 12; v. 285; p. 388.
- Millers Falls Paper Company, Millers Falls, Mass. Printing and writing papers. No. 142,888; May 17; v. 286; p. 640.
- Millers Milling Company, The, Enid, Okla. Wheat-flour. No. 141,612; Apr. 26; v. 285; p. 786.
- Millett, Edward L., Danvers, Mass. Patent-leather enamel and varnish and smoother for patent-leather enamel. No. 140,173; Mar. 8; v. 284; p. 366.
- Milliken Brothers Mfg. Co. Inc., New York, N. Y. Metallic building structures. No. 140,048; Mar. 1; v. 284; p. 177.
- Milliken, William S., Brooklyn, N. Y. Candy. No. 149,168; Dec. 6.
- Milliken, Wm. A., New York, N. Y. Dental-plate polish. No. 144,862; July 19; v. 288; p. 620.
- Millikin, Hugh E., Toronto, Ontario, Canada. Books, charts, &c., connected with a system for teaching music. No. 144,006; June 21; v. 287; p. 581.



- Millikin, Hugh E., Niagara Falls, N. Y. Publications. No. 148,903; Nov. 29.
- Millinery Products Company, Chicago, Ill. Boutonnieres and corsage-bouquets. No. 144,007; June 21; v. 287; p. 581.
- Mills Brothers Company, The, Cincinnati, Ohio. Soap and metal-polishing cloths. No. 139,168; Jan. 25; v. 282; p. 735.
- Mills Cabinet Company, Racine, Wis. Automobile-tops. No. 141,044; Mar. 29; v. 284; p. 953.
- Mills Candy Co., Milwaukee, Wis. Candy. No. 138,673; Jan. 4; v. 282; p. 188.
- Mills Candy Company, Milwaukee, Wis. Candy. No. 141,613; Apr. 26; v. 285; p. 781.
- Mills Corset Company, Chicago, Ill. Corsets. No. 143,686; June 7; v. 287; p. 185.
- Mills, F. S. Co. Inc., Gloversville, N. Y. Tobacco-pouches. No. 143,817; June 7; v. 287; p. 192.
- Mills-Fulford, Ltd., Coventry, England. Side fore and trailer cars for motorcycles and cycles. No. 142,053; May 3; v. 286; p. 188.
- Mills & Gibb Corp., New York, N. Y. Cotton piece goods. No. 141,781; Apr. 26; v. 285; p. 790.
- Mills & Gibb Corporation, assignor to Pelgram & Meyer, New York, N. Y. Silk ribbons in the piece. No. 140,174; Mar. 8; v. 284; p. 366.
- Mills, May, St. Paul, Minn. Candies, ice-cream, and pastry. No. 142,052; May 3; v. 286; p. 188.
- Milton Piano Company, New York, N. Y. Pianos and player-pianos. No. 146,540; Sept. 6; v. 290; p. 219.
- Milwaukee Auto Engine & Supply Co., Milwaukee, Wis. Spark-timers for internal-combustion engines. No. 146,541; Sept. 6; v. 290; p. 219.
- Milwaukee Auto Engine & Supply Company, Milwaukee, Wis. Automobile-bumpers. No. 149,701; Dec. 20.
- Milwaukee Brewery of San Francisco, San Francisco, Calif. Cereal beverage. No. 144,529; July 5; v. 288; p. 199.
- Milwaukee Corrugating Company, Greenfield, Wis. Roof-ventilators. No. 139,350; Feb. 1; v. 283; p. 170.
- Milwaukee Glove Company, Milwaukee, Wis. Leather and cloth gloves and mittens. No. 142,618; May 17; v. 286; p. 629.
- Milwaukee Glove Company, Milwaukee, Wis. Leather and cloth gloves and mittens. No. 145,153; July 26; v. 288; p. 815.
- Milwaukee Label & Seal Co., Milwaukee, Wis. Embossed gold seals. No. 144,008; June 21; v. 287; p. 581.
- Milwaukee Manufacturing Company, Milwaukee, Wis. Electric heaters for liquids. No. 142,619; May 17; v. 286; p. 629.
- Milwaukee Seed Co., Milwaukee, Wis. Field, clover, and grass seed. No. 143,095; May 24; v. 286; p. 848.
- Milwaukee Steel Foundry Co., Milwaukee, Wis. Steel castings other than railway-castings. No. 140,175; Mar. 8; v. 284; p. 366.
- Milwaukee Steel Foundry Company, Milwaukee, Wis. Metal castings, and specifically castings made of steel and iron and alloys of steel and iron. No. 144,202; June 28; v. 287; p. 774.
- Milwaukee Woven Wire Works, Milwaukee, Wis. Wire bed and chair mattress and cushion springs. No. 143,096; May 24; v. 286; p. 849.
- Mindling, Grover N., Pittsburgh, Pa. Sugar cakes. No. 144,610; July 12; v. 288; p. 425.
- Miner, Est. Henry C., Inc., New York, N. Y. Certain toilet preparations. No. 145,748; Aug. 16; v. 289; p. 595.
- Minerva Motors, Antwerp, Belgium. Transmission apparatus and explosion-motors for motor-cars, &c. No. 149,702; Dec. 20.
- Minerva Motors, Antwerp, Belgium. Automobiles, and chassis for automobiles, bicycles, and aeroplanes. No. 149,703; Dec. 20.
- Minneapolis Heat Regulator Co., Minneapolis, Minn. Thermostatic heat regulators. Nos. 145,279-80; July 26; v. 288; p. 824.
- Minneapolis Steel & Machinery Company, Minneapolis, Minn. Tractors, internal-combustion engines, and threshing-machines. No. 138,913; Jan. 11; v. 282; p. 387.
- Minneapolis Steel & Machinery Company, Minneapolis, Minn. Motor-driven trucks. No. 141,296; Apr. 12; v. 285; p. 388.
- Minnesota Mining & Mfg. Co., St. Paul, Minn. Abrasive paper and cloth. Nos. 141,174-5; Apr. 12; v. 285; p. 382.
- Minnetonka Canning Company, St. Bonifacius, Minn. Canned vegetables. No. 140,490; Mar. 15; v. 284; p. 584.
- Mint Products Co., Inc., New York, N. Y. Candy. Nos. 141,176-81; Apr. 12; v. 285; p. 382.
- Miracle Manufacturing Company, Detroit, Mich. Non-saponaceous washing fluid. No. 144,203; June 28; v. 287; p. 774.
- Mirand Polish Company, Pittsburgh, Pa. Furniture and automobile polish. No. 149,456; Dec. 13.
- Miranda Limited, London, England. Cigarettes. No. 142,620; May 17; v. 286; p. 629.
- Mirolone Co., The, Alsen, N. D. Remedy for the internal treatment of coughs and colds. No. 139,005; Jan. 18; v. 282; p. 555.
- Mirrors and picture-frames, Hand and wall. Tuskeloid Company. Nos. 149,527-8; Dec. 13.
- Mirsky, Israel M., Milwaukee, Wis. Underwear and hosiery. No. 149,169; Dec. 6.
- Mississippi Valley Tanning Co., St. Louis, Mo. Leather. No. 142,054; May 3; v. 286; p. 188.
- Missouri Cobalt Company, Fredericktown, Mo. Color ingredients for paints, &c. No. 138,674; Jan. 4; v. 282; p. 188.
- Misto Manufacturing Co., Kokomo, Ind. Salve. No. 143,097; May 24; v. 286; p. 849.
- Mitchell-Bissell Company, New York, N. Y. Guides and tips for fishing-rods. No. 148,481; Nov. 15.
- Mitchell, George, New York, N. Y. Phonographs. No. 141,614; Apr. 26; v. 285; p. 781.
- Mitchell, John W., assignor to U. F. Kester, Paso Robles, Calif. Liniment. No. 150,010; Dec. 27.
- Mitchell Manufacturing Co., The, Portsmouth, Ohio, and New York, N. Y. Men's knitted union-suits. No. 140,011; Mar. 1; v. 284; p. 174.
- Mitchell and Smith, Inc., Boston, Mass. Leather link belts, disks, packings, and clutch-leathers, &c. No. 147,643; Oct. 25.
- Mitchell, T. J., & Co., Inc., New York, N. Y. Satins in the piece. No. 145,154; July 26; v. 288; p. 815.
- Mitchell, T. J., & Co., Inc., New York, N. Y. Broad silks in the piece. No. 145,155; July 26; v. 288; p. 815.
- Mitchell Vance Co., Inc., New York, N. Y. Electric-lighting fixtures. No. 143,508; May 31; v. 286; p. 1054.
- Mobery, William H., Owensboro, Ky. Smoking-tobacco, natural twist, and cigarettes. No. 144,204; June 28; v. 287; p. 774.
- Mobley, Lewis K., New York, N. Y. Container for carrying liquid medicaments and discharging same as a spray. No. 139,171; Jan. 25; v. 282; p. 735.
- Modern Belt Co., Chicago, Ill. Belts for supporting wearing-apparel. No. 139,947; Feb. 22; v. 283; p. 760.
- Modern Cap Mfg. Company, St. Louis, Mo. Hats and caps. No. 148,166; Nov. 8.
- Modine Manufacturing Company, Racine, Wis. Automobile-radiators. No. 144,443; July 5; v. 288; p. 194.
- Modoc Company of Pa., The, Fernwood, Pa. Boiler compound. No. 139,172; Jan. 25; v. 282; p. 735.
- Modoc Company, The, Fernwood, Pa. Detergent car-cleaner, soap powder, powdered soap. No. 143,402; May 31; v. 286; p. 1051.
- Moe, Blanche W., Chicago, Ill. Face-powders. No. 144,009; June 21; v. 287; p. 581.
- Moe, Blanche W., Chicago, Ill. Coloring-matter suitable for the coloring of hair. No. 144,444; July 5; v. 288; p. 194.
- Moeller, Annetta, Indianapolis, Ind. Containers for manicuring preparations, powders, and cosmetics, &c. No. 149,457; Dec. 13.
- Moench, C., Sons Company, The, Boston, Mass. Leathers. No. 149,170; Dec. 6.
- Moffett, James R., El Paso, Tex. Printed letters, circulars, booklets, folders, &c. No. 140,176; Mar. 8; v. 284; p. 366.
- Mogul Wagon Company, Hopkinsville, Ky. Farm, log, and one-horse wagons. No. 145,420; Aug. 2; v. 289; p. 180.
- Mohawk Piston Ring Corporation, Cleveland, Ohio. Piston and packing rings. No. 149,458; Dec. 13.
- Mohegan Wall Board & Roofing Corporation, New York, N. Y. Asphalt roofing. Nos. 141,615-6; Apr. 26; v. 285; p. 781.
- Mohler Bros. Coffee Company, Hattiesburg, Miss. Coffee. No. 150,011; Dec. 27.
- Mohr Food Products, Inc., New York, N. Y. Vegetable extract to be used as base and flavoring for foods. No. 147,644; Oct. 25.
- Moir, Marian, Burlington, Iowa. Wrist score-card. No. 150,012; Dec. 27.
- Moline Chemical Company, Moline, Ill. Non-greasy granulated chemical cleanser. No. 147,371; Oct. 11.
- Moline Plow Company, Moline, Ill. Agricultural machinery, tractors, tractor-carrying trucks, and parts thereof. No. 139,462; Feb. 1; v. 283; p. 176.
- Moline Plow Company, Moline, Ill. Automobiles. No. 140,897; Mar. 29; v. 284; p. 946.
- Molnar, Nicholas J., Roselle, N. J. Medicinal preparation for congestion and inflammation. No. 148,167; Nov. 8.
- Monarch Engineering Company, The, Dayton, Ohio. Pneumatic pressure systems for pumping, storing, and supplying water or other fluids. No. 147,645; Oct. 25.
- Monarch Engineering Company, The, Dayton, Ohio. Electrical apparatus. No. 148,482; Nov. 15.
- Monarch Foundry Company, Stockton, Calif. Pumps and pumping plants and parts thereof. No. 142,055; May 3; v. 286; p. 188.
- Monarch Foundry Company, Stockton, Calif. Castings for pumps and pumping plants. No. 149,171; Dec. 6.
- Monarch Leather Company, Chicago, Ill. Leather. No. 141,783; Apr. 26; v. 285; p. 790.
- Monarch Leather Company, Chicago, Ill. Leather. No. 144,863; July 19; v. 288; p. 626.
- Monarch Machine Tool Company, The, Sidney, Ohio. Lathes. No. 140,898; Mar. 29; v. 284; p. 946.
- Money Back Laboratories, Inc., Oklahoma, Okla. Fire-tubes, tube-patches, &c. Nos. 140,899-901; Mar. 29; v. 284; p. 946.



## Alphabetical list of registrants of trade-marks—Continued.

- Monica Textile Corporation. (See Loegler, Chretien, assignor.)
- Monite Water Proof Glue Company, Minneapolis, Minn. Glue. No. 147,646; Oct. 23.
- Monmouth County Farmers Exchange, Freehold, N. J. Potatoes, (bagged in their natural state.) No. 150,013; Dec. 27.
- Mono-Service Co., Newark, N. J. Composition containers for food products. No. 145,000; July 19; v. 288; p. 627.
- Monsanto Chemical Works, St. Louis, Mo. Chemicals. No. 140,650; Mar. 22; v. 284; p. 746.
- Moushmer and Jacobs, New York, N. Y. Infants' and children's white dresses, undergarments, &c. No. 142,056; May 3; v. 286; p. 188.
- Monterverde, P. & Co., San Francisco, Calif. Olive-oil. No. 140,496; Mar. 15; v. 284; p. 584.
- Montgomery, Arthur H., Montgomery, Ala. Skin-lotion. No. 139,351; Feb. 1; v. 283; p. 170.
- Montgomery Bros., Inc., Philadelphia, Pa. Liquid rubber cements. No. 147,798; Nov. 1.
- Montgomery, C. L., Memphis, Tenn. Cotton-seed meal. No. 149,172; Dec. 6.
- Montrose Worsted Company, Woonsocket, R. I., and New York, N. Y. Worsteds and woolsens in the piece. No. 146,299; Sept. 6; v. 290; p. 201.
- Moon-Shine Manufacturing Company, Chillicothe, Mo. Lubricating-oil. No. 149,173; Dec. 6.
- Moore, Benjamin, & Co., New York, N. Y. Flat wall-paint. No. 144,864; July 19; v. 288; p. 620.
- Moore, Charles A., Sr., New Castle, Pa. Capsules to be taken internally for the treatment of piles. No. 138,839; Jan. 11; v. 282; p. 377.
- Moore, Charles S., Dr., Eldora, Iowa. Worm-destroyer, hog-tonic, and poultry-regulator. No. 145,749; Aug. 16; v. 289; p. 595.
- Moore Company, The, Muncie, Ind. Wire fabric for supporting mattresses and cushions. No. 142,621; May 17; v. 286; p. 629.
- Moore Company, The, Muncie, Ind. Wire fabric for supporting mattresses and cushions. No. 144,205; June 28; v. 287; p. 774.
- Moore, E. J., Sons, Inc., New York, N. Y. Preventive for venereal diseases. No. 144,206; June 28; v. 287; p. 774.
- Moore, Edson & Company, Detroit, Mich. Manufactured blankets. No. 139,352; Feb. 1; v. 283; p. 170.
- Moore & Evans, Chicago, Ill. Catalogues issued monthly and annually. No. 144,865; July 19; v. 288; p. 620.
- Moore, H. J., Glove Company, St. Paul, Minn. Gloves and mittens of leather, fabric and combination of the leather and fabric. No. 144,866; July 19; v. 288; p. 620.
- Moore, J. Johnston, Montgomery, Ala. Medicinal and toilet preparations. No. 147,014; Sept. 27; v. 290; p. 805.
- Moore, Joseph H., Providence, R. I. Preparation for tinting the cheeks and a pomade for the hair in ointment and liquid form. No. 142,622; May 17; v. 286; p. 629.
- Moore, Joseph H., Providence, R. I. Toilet and medicinal preparations. No. 142,623; May 17; v. 286; p. 629.
- Moore, Laura E., Griffin, Ga. Hair-grower for shampooing, oiling, and straightening the hair. No. 148,691; Nov. 22.
- Moore, Martin L., Memphis, Tenn. Medicinal and pharmaceutical preparations. No. 145,001; July 19; v. 288; p. 627.
- Moore Oil Refining Company, The, Cincinnati, Ohio. Oil emulsion used for the treatment of cotton. No. 143,688; June 7; v. 287; p. 186.
- Moore, Rutherford W., Schenectady, N. Y. Preparation useful in general debility, convalescence from wasting diseases, &c. No. 149,323; Dec. 6.
- Moore, Virgil V., Cordele, Ga. Vulcanizing-patches for automobile tires and inner tubes. No. 141,617; Apr. 26; v. 285; p. 781.
- Moore, Walter N., Dry Goods Co., San Francisco, Calif. Woven romper-cloths, piece goods. No. 150,014; Dec. 27.
- Moore, Warner & Co., Richmond, Va. Corn-flour. No. 143,403; May 31; v. 286; p. 1051.
- Moore, William H., Kansas City, Mo. Cream for eczema. No. 146,818; Sept. 20; v. 290; p. 635.
- Moore, William R., Dry Goods Company, Memphis, Tenn. Gingham, zephyrs, and chevits in the piece. No. 146,300; Sept. 6; v. 290; p. 201.
- Moos, Leon S. (See Virocacao Company, Inc., The, assignor.)
- Moran, May B., Kansas City, Mo. Dolls. No. 148,168; Nov. 8.
- Morey Flux and Chemical Company, Inc., Parkersburg, Pa. Welding fluxes. No. 147,875; Nov. 1.
- Moran, Mueller & Morris, Philadelphia, Pa. Steel restoring and hardening compound. No. 143,689; June 7; v. 287; p. 186.
- Morand, H. S., Cincinnati, Ohio. Hats for men and women. No. 145,750; Aug. 16; v. 289; p. 596.
- Morandi-Proctor Company, Boston, Mass. Warming-closets, steam-tables, coffee-urns, &c. No. 150,015; Dec. 27.
- Moras, Ferdinand, Berlin, Germany, assignor to A. Klaiber, Brooklyn, N. Y. Preparation for hardening and improving steel and iron. No. 140,652; Mar. 22; v. 284; p. 746.
- Morden, S. H., & Company Ltd., London, England. Chemical anticarbonizing compounds for use in case-hardening. No. 140,012; Mar. 1; v. 284; p. 174.
- More-Jones Brass & Metal Company, St. Louis, Mo. Babbitt metal. Nos. 141,784-7; Apr. 26; v. 285; p. 791.
- More-Jones Brass & Metal Company, St. Louis, Mo. Babbitt metal. Nos. 145,156-9; July 26; v. 288; p. 815.
- More-Jones Brass & Metal Company, St. Louis, Mo. Bearing metal. No. 145,160; July 26; v. 288; p. 815.
- Moreland-Jones Company, Americus, Ga. Wheat-flour. No. 142,624; May 17; v. 286; p. 629.
- Morey Flux & Chemical Company, Inc., Parkersburg, Pa. Welding and brazing rods of certain metals and metallic electric welding-rods. No. 148,595; Nov. 15.
- Morey Mercantile Company, The, Denver, Colo. Brooms. Nos. 139,353-4; Feb. 1; v. 283; p. 170.
- Morgan Chemical Corporation, Ogdensburg, N. Y. Insecticides and fungicides, and fungicides for plants. No. 145,751; Aug. 16; v. 289; p. 596.
- Morgan, Hubert S., Boston, Mass. Liquid remedy for external application for hay-fever and the like. No. 141,416; Apr. 19; v. 285; p. 568.
- Morgan Knitting Mills, Inc., Newark, N. J., and New York, N. Y. Knit jackets, sweaters, and coats. No. 142,819; June 7; v. 287; p. 192.
- Morgan Knitting Mills, Inc., Newark, N. J., and New York, N. Y. Knit jackets. No. 143,820; June 7; v. 287; p. 192.
- Morgan Laboratories, The, Toledo, Ohio. Toilet preparations. No. 140,902; Mar. 29; v. 284; p. 946.
- Morgan, Seibert W., Baltimore, Md. Compound for polishing glass metals, and like surfaces. No. 149,174; Dec. 6.
- Morgan Spring Company, Worcester, Mass. Wire articles. No. 149,459; Dec. 13.
- Morin, Charles J., Waterville, Me. Cough-syrup. No. 147,647; Oct. 25.
- Morley Button Manufacturing Company, Boston, Mass. Nails. No. 139,088; Jan. 18; v. 282; p. 560.
- Morley Button Manufacturing Company, Boston, Mass. Buttons. No. 144,010; June 21; v. 287; p. 581.
- Morner, Adolf H., New York, N. Y. Certain engines and turbines, and sawmill and woodworking machinery. No. 147,499; Oct. 18.
- Morrell, John, & Company, Ottumwa, Iowa. Bacon. No. 150,016; Dec. 27.
- Morris and Company, Chicago, Ill. Lard. No. 139,006; Jan. 18; v. 282; p. 555.
- Morris & Company, Union Stock Yards, Chicago, Ill. Lard, with stearin made from lard added thereto. No. 139,581; Feb. 8; v. 283; p. 352.
- Morris & Company, Inc., Baltimore, Md. Ladies', misses', and children's dresses. No. 141,618; Apr. 26; v. 285; p. 781.
- Morris & Company, Chicago, Ill. Butter and eggs. No. 144,667; July 12; v. 288; p. 428.
- Morris & Company, Incorporated, Baltimore, Md. Bloomers, blouses, waists, skirts, &c. No. 147,372; Oct. 11.
- Morris, Emil, Detroit, Mich. Razors. No. 142,625; May 17; v. 286; p. 629.
- Morris, Emil, Detroit, Mich. Razors. No. 145,161; July 26; v. 288; p. 815.
- Morris, Emory S., Atlanta, Ga. Insecticides. No. 139,530; Feb. 8; v. 283; p. 350.
- Morris, Joshua L., Chicago, Ill. Pocket sales-registers. No. 144,867; July 19; v. 288; p. 620.
- Morris, Mann & Reilly, Chicago, Ill. Baby-pants. Nos. 149,175-6; Dec. 6.
- Morris Ovson Company, Chicago, Ill. Frozen eggs. No. 143,404; May 31; v. 286; p. 1051.
- Morris, Samuel H., New York, N. Y. Malt extracts for food purposes. No. 148,483; Nov. 15.
- Morrison, Benjamin R., Wilmington, N. C. Sanitary receptacles for tooth-brushes. No. 149,704; Dec. 20.
- Morse, A. G., Co., Chicago, Ill. Candy. No. 138,675; Jan. 4; v. 282; p. 188.
- Morse, A. G., Co., Chicago, Ill. Chocolate candy. No. 140,491; Mar. 15; v. 284; p. 584.
- Morse, A. G., Co., Chicago, Ill. Candy. No. 142,626; May 17; v. 286; p. 629.
- Morse & Burt Co., Inc., Brooklyn, N. Y. Shoes of leather, fabric, and combination. No. 143,405; May 31; v. 286; p. 1051.
- Morse & Burt Co., Inc., Brooklyn, N. Y. Shoes of leather, fabric, and combinations. No. 146,819; Sept. 20; v. 290; p. 636.
- Morton Chemical Company, The, Seattle, Wash. Antipyretic and diaphoretic capsules for headache, colds and la grippe. No. 138,840; Jan. 11; v. 282; p. 377.
- Morton, Erni M., Centertown, Ky. Laxative tablets for sluggish and torpid liver. No. 139,007; Jan. 18; v. 282; p. 555.
- Morton, Sundour Fabrics Ltd., Dentonhill, Carlisle, England. Certain table-linen, handkerchiefs, &c. No. 150,017; Dec. 27.
- Morton Sundour Fabrics Ltd., Dentonhill, Carlisle, England. Linen, hemp, silk, wool and worsted piece goods, &c. No. 150,018; Dec. 27.
- Moschenross, Marie, Oakland, Calif. Hair tonic and restorer. No. 143,406; May 31; v. 286; p. 1051.



- Moskowitz, Philip, New York, N. Y. Clothing—namely, overcoats and suits for men. No. 140,492; Mar. 15; v. 284; p. 584.
- Mosley, Virginia, Des Moines, Iowa. Toilet preparations. No. 143,521; May 31; v. 286; p. 1055.
- Mosley, Virginia, Des Moines, Iowa. Hair-tonics, either liquid or salve. No. 143,859; June 14; v. 287; p. 400.
- Moss, Edgar A., Marion, Ind. For use on newspaper-columns. No. 148,484; Nov. 15.
- Moss-Schury Mfg. Co., Inc., Detroit, Mich. Multiple and refillable fuse-plug. No. 139,173; Jan. 25; v. 282; p. 735.
- Mosstwin Company, Boston, Mass. Snap-fasteners. No. 138,676; Jan. 4; v. 282; p. 188.
- Mosstwin Company, Boston, Mass. Snap-fasteners. No. 139,355; Feb. 1; v. 283; p. 170.
- Mosstwin Company, New York, N. Y. Snap-fasteners. No. 143,485; Nov. 15.
- Mother's Remedies Company, The, Chicago, Ill. Ointment. No. 147,015; Sept. 27; v. 290; p. 805.
- Motometer Company, Inc., The, Long Island City, N. Y. Temperature-indicating devices for engines. No. 147,500; Oct. 18.
- Motor Gasket Seal Co., Los Angeles, Calif. Liquid composition for sealing gaskets, joints, &c. No. 146,542; Sept. 6; v. 290; p. 219.
- Motor-Kick Company, Philadelphia, Pa. Chemical for removing deposits from the cylinders of engines. No. 144,611; July 12; v. 288; p. 425.
- Motor-Log, Bethlehem, Pa. Record-books. No. 144,868; July 19; v. 288; p. 620.
- Motor Spindle Corporation, Detroit, Mich. Front-wheel spindles for Ford automobiles. No. 141,619; Apr. 25; v. 285; p. 781.
- Motor Truck Publishing Company, Des Moines, Iowa. Monthly publication. No. 140,653; Mar. 22; v. 284; p. 746.
- Motorcraft Publishing Company, Oakland, Calif. Monthly publication. No. 144,011; June 21; v. 287; p. 581.
- Motorcycle Appliance Co., New York, N. Y. Containers for holding and adjusting electric measuring instruments to motor-vehicles. No. 140,903; Mar. 29; v. 284; p. 946.
- Moultrie, Latania P., Wildwood, N. J. Compound for the treatment of the scalp and hair-tonic. No. 143,099; May 24; v. 286; p. 849.
- Moundridge Milling Co., Moundridge, Kans. Wheat-flour. No. 146,820; Sept. 20; v. 290; p. 636.
- Mount Royal Corporation, New York, N. Y. Jewelry, toilet articles, desk-fittings, and photo-frames. No. 140,904; Mar. 29; v. 284; p. 946.
- Mt. Vernon Furnace & Mfg. Co., Mount Vernon, Ill. Warm air furnaces, (pipe and pipeless.) No. 144,036; June 21; v. 287; p. 582.
- Mount Vernon-Woodberry Mills, Incorporated, Baltimore, Md. Cotton duck. Nos. 140,177-9; Mar. 8; v. 284; p. 366.
- Mountain Mill Paper Company, Lee, Mass. Grease-proof parchment-paper. No. 138,677; Jan. 4; v. 282; p. 188.
- Mountain States Manufacturing Co., Provo, Utah. Egg substitute. No. 140,905; Mar. 29; v. 284; p. 946.
- Mountain States Rubber Company, The, Denver, Colo. Cleaning, polishing, and dressing compound for automobiles and furniture. No. 147,799; Nov. 1.
- Moyson, Rose, New York, N. Y. Ointment for treatment and removal of corns and callouses. No. 142,057; May 3; v. 286; p. 188.
- Mu-Col Company, The, Buffalo, N. Y. Soap. No. 143,407; May 31; v. 286; p. 1051.
- Mueller, John, Licorice Co., The, Cincinnati, Ohio. Licorice confections. No. 146,821; Sept. 20; v. 290; p. 636.
- Mueller, Joseph H., Cleveland, Ohio. Medicinal preparations used as laxatives. No. 144,613; July 12; v. 288; p. 425.
- Mueller, Ralph S., Cleveland, Ohio. Connection-clips. No. 141,182; Apr. 12; v. 285; p. 382.
- Muge, Julius E., San Antonio, Tex. Cow feed. No. 145,983; Aug. 23; v. 289; p. 788.
- Mulford, H. K., Co., Philadelphia, Pa. Medicinal and pharmaceutical compounds. No. 144,013; June 21; v. 287; p. 581.
- Mulhens & Kropff, Incorporated, New York, N. Y. Antiseptic mouth-wash and scalp remedy. No. 143,100; May 24; v. 286; p. 849.
- Mulhens & Kropff, Incorporated, New York, N. Y. Medicated and shaving soaps. No. 143,408; May 31; v. 286; p. 1051.
- Mulhens & Kropff, Incorporated, New York, N. Y. Toilet preparations. No. 144,207; June 28; v. 287; p. 774.
- Mulhern, John, Company, San Francisco, Calif. Non-alcoholic, maltless beverage and syrup for making same. No. 147,501; Oct. 18.
- Mull, Leo B., Co., The, Cedar Rapids, Iowa. Crushed oyster and clam shells for poultry feed. No. 143,690; June 7; v. 287; p. 186.
- Muller-Sealey Company, Inc., New York, N. Y. Flower-bulbs and vegetable, farm, and flower seeds. No. 144,012; June 21; v. 287; p. 581.
- Mullins, R. G., Knoxville, Tenn. Soda-water. No. 139,838; Feb. 22; v. 283; p. 753.
- Mullins, Viola B., Jacksonville, Fla. Preparation for the hair and scalp. No. 146,301; Sept. 6; v. 290; p. 201.
- Multi Electrical Mfg. Company, Chicago, Ill. Certain electrical apparatus. No. 148,169; Nov. 8.
- Multi Products Company, Detroit, Mich. Washing compounds. No. 144,208; June 28; v. 287; p. 774.
- Multi-Products Export Corporation, New York, N. Y. Fabrics of hemp, flax, cotton, wool, &c., or any mixture of these in the piece. No. 140,654; Mar. 22; v. 284; p. 746.
- Mumford, Luella, Lehigh, Ala. Tonics and dressings for the hair and scalp. No. 149,177; Dec. 6.
- Mundial Trading Co. Inc., New York, N. Y. Liquid preparation for healing punctures and closing holes in pneumatic tires. No. 142,058; May 3; v. 286; p. 188.
- Mundie Manufacturing Company, The, Peru, Ill. Portable air-compressors, semiportable air-compressor outfits, &c. No. 140,493; Mar. 15; v. 284; p. 584.
- Mundon, Charles A., Parsons, Kans. Preservative and polish for automobile-bodies, pianos, &c. No. 147,648; Oct. 25.
- Mundy, J. S., Hoisting Engine Co., Newark, N. J. Certain hoists, engines, winches, &c. No. 149,705; Dec. 20.
- Munn, R. J., & Bros., Boston, Mass. Artificial flowers. No. 144,037; June 21; v. 287; p. 582.
- Munro, Duncan C., Windsor, Ontario, Canada. Wrenches. No. 147,649; Oct. 25.
- Munroe, Alexandra, Los Angeles, Calif. Women's and children's dresses. No. 143,101; May 24; v. 286; p. 849.
- Munsingwear Corporation, The, Minneapolis, Minn. Hosiery and underwear, such underwear being of knitted and textile fabric. Nos. 145,752-3; Aug. 16; v. 289; p. 596.
- Munsingwear Corporation, The, Minneapolis, Minn. Hosiery and underwear. No. 147,373; Oct. 11.
- Munter, Charles, New York, N. Y. Soap. No. 144,209; June 28; v. 287; p. 774.
- Munter, Charles, New York, N. Y. Certain articles of clothing. No. 145,568; Aug. 9; v. 289; p. 408.
- Munter, Charles, New York, N. Y. Tooth-paste. No. 147,132; Oct. 4.
- Murchey Machine & Tool Company, Detroit, Mich. Collapsible, self-opening taps and dies, pipe threading and cutting machines, boring-bars. No. 147,237; Oct. 4.
- Murdock, C. A., Mfg. Co., Kansas City, Mo. Coffee, spices, mustard, fruit flavoring extracts—namely, lemon. No. 149,706; Dec. 20.
- Murdy Co., The, Chicago, Ill. Folders, binders, and guides for use in filing papers. No. 140,906; Mar. 29; v. 284; p. 946.
- Murine Eye Remedy Company, The, Chicago, Ill. Eye remedies. Nos. 140,494-5; Mar. 15; v. 284; p. 584.
- Murine Eye Remedy Company, The, Chicago, Ill. Eye remedies. No. 140,655; Mar. 22; v. 284; p. 746.
- Murphy, Charles E., Chillicothe, Mo. Cleaning fluid for painted and varnished automobiles, pianos, and furniture-surfaces. No. 143,409; May 31; v. 286; p. 1051.
- Murphy, E. J., Company, Inc., Washington, D. C. Ready-mixed paints, colored varnishes, polishing-oil, &c. No. 142,627; May 17; v. 286; p. 629.
- Murphy, G. W. J., Company, Amesbury, Mass. Curtain-fasteners and parts thereof. Nos. 148,486-7; Nov. 15.
- Murphy-Gorman Company, Danbury, Conn. Soft, stiff, and velour hats. No. 147,238; Oct. 4.
- Murphy, Howard M., Philadelphia, Pa. Preparation for the treatment of gall-stones. No. 143,102; May 24; v. 286; p. 849.
- Murphy, John A., Company, The, Springfield, Mass. Paper-ties, writing-paper, and mailing-envelopes. No. 148,170; Nov. 8.
- Murphy, Joseph M., Salt Lake City, Utah. Non-intoxicating fruit beverage. Nos. 140,907-8; Mar. 29; v. 284; p. 946.
- Murphy, P. H., Company, New Kensington, Pa. Railroad-car metal roofs and certain parts of such roofs. No. 148,692; Nov. 22.
- Murphy Wall Bed Company, San Francisco, Calif. Concealed beds. No. 139,174; Jan. 25; v. 282; p. 735.
- Murray, Ethel F., Springfield, Mass. Children's rompers. No. 144,014; June 21; v. 287; p. 581.
- Murray, Frank E., Chicago, Ill. Annual directory and reference-book covering the mineral-oil industry. No. 143,103; May 24; v. 286; p. 849.
- Murray, John F., New York, N. Y. Counter-irritant salve. No. 140,180; Mar. 8; v. 284; p. 366.
- Murray, John F., New York, N. Y. Salve for the treatment of inflammation of the skin and scalp. No. 140,181; Mar. 8; v. 284; p. 366.
- Muskegon Motor Specialties Company, Muskegon, Mich. Cam-shafts. No. 143,257; May 24; v. 286; p. 857.
- Musliner, Jos., & Co., Inc., New York, N. Y. Sole-leather. No. 148,488; Nov. 15.
- Mutual Drug Company, The, Denver, Colo. Toilet preparations. No. 140,909; Mar. 29; v. 284; p. 946.
- Mutual Homes Society, The, Washington, D. C. Name of a monthly journal issued by said society. No. 144,015; June 21; v. 287; p. 581.
- Mutual Paint Company, St. Paul, Minn. Ready-mixed paints, varnishes, and paint enamels. No. 150,019; Dec. 27.
- Mutual Thread Company, New York, N. Y. Thread and yarn. No. 139,089; Jan. 18; v. 282; p. 560.
- Mutual Trading Company, New York, N. Y. Phonographs, talking-machines, and records. No. 148,489; Nov. 15.



*Alphabetical list of registrants of trade-marks—Continued.*

- Myer, Thomas J., & Co., Baltimore, Md. Canned fruits and vegetables. No. 141,620; Apr. 26; v. 285; p. 781.
- Myers, F. E., & Bro., Ashland, Ohio. Power-pumps, working-heads, pump-jacks. No. 147,239; Oct. 4.
- Myers, Ham & Co., New York, N. Y. Clothing. No. 144,016; June 21; v. 287; p. 581.
- Myers-Harbough Company, Portland, Oreg. Certain medicinal preparation. No. 148,766; Nov. 22.
- Myers, Henry E., Idabel, Okla. Pharmaceutical preparations. No. 139,839; Feb. 22; v. 283; p. 753.
- Myers, Leonard C., Los Angeles, Calif. Automobile-window. No. 146,654; Sept. 13; v. 290; p. 428.
- Myers, Rodman, San Antonio, Tex. Face-cream. No. 149,178; Dec. 6.
- Myles Salt Company Ltd., New Orleans, La. Salt. No. 139,175; Jan. 25; v. 282; p. 735.
- N. D. Cass Company, The, Athol, Mass. Toys. No. 140,842; Mar. 15; v. 284; p. 580.
- N. V. Eerste Nederlandsche Fabriek van Asbest-Cement-platen, Amsterdam, Netherlands. Sheets and plates made of asbestos and cement and used for building purposes. No. 144,754; July 19; v. 288; p. 617.
- N. V. Internationale Mineralen Compagnie, Rotterdam, Netherlands. Construction material. No. 148,497; Nov. 15.
- N. V. Stoom Chocolade & Cacaofabriek, "Kwatta," Middenlaan, Breda, Netherlands. Chocolate. No. 145,467; Aug. 2; v. 289; p. 182.
- Naamlooze Vennootschap: Eau De Colognefabriek Voorheen J. C. Boldoot, Amsterdam, Netherlands. Soaps. No. 149,179; Dec. 6.
- Naamlooze Vennootschap Oliefabrieken Insulinde, Amsterdam, Netherlands. Foods and ingredients of foods. No. 140,013; Mar. 1; v. 284; p. 174.
- Naamlooze Vennootschap Oliefabrieken Insulinde, Amsterdam, Netherlands. Lubricating oils and greases. No. 143,104; May 24; v. 286; p. 849.
- Naamlooze Vennootschap Oliefabrieken Insulinde, Amsterdam, Netherlands. Residues of oils and fats used as fertilizers. No. 144,869; July 19; v. 288; p. 621.
- Naamlooze Vennootschap Oliefabrieken Insulinde, Amsterdam, Netherlands. Oils used in treating textile fabrics. No. 146,302; Sept. 6; v. 290; p. 201.
- Naco Products Co., New York, N. Y. Chemical preparation. No. 139,840; Feb. 22; v. 283; p. 754.
- Nacol, Joseph, Eunice, La. Paint and varnish remover. No. 146,303; Sept. 6; v. 290; p. 201.
- Nagano, Shimsaku, Chicago, Ill. Sauce for seasoning food. No. 145,514; Aug. 2; v. 289; p. 185.
- Nagel, W. G., Electric Co., Toledo, Ohio. Ammeters and voltmeters, oil-pressure gages, oil-indicators. Nos. 149,595-6; Dec. 13.
- Na-Iom Laboratory, Poughkeepsie, N. Y. Medicinal preparation. No. 145,984; Aug. 23; v. 289; p. 788.
- Nakayama, Taichi, Minami-ku, Osaka, Japan. Toilet preparations. No. 139,841; Feb. 22; v. 283; p. 754.
- Namco Products Corporation. (See North American Ginseng Co., assignors.)
- Namiot, Charles B., New York, N. Y. Finger-rings. No. 143,105; May 24; v. 286; p. 849.
- Nancy-Pain Frocks, Forest Hills, N. Y. Women's dresses, coats, suits, and frocks. No. 47,650; Oct. 25.
- Napier-Bliss Company, Meriden, Conn. Jewelry. No. 144,870; July 19; v. 288; p. 621.
- Napier, Risden B., Rockingham, N. C. Preparation for the treatment of headache, neuralgia, colds, la grippe, &c. No. 143,106; May 24; v. 286; p. 849.
- Narragansett Brewing Co., Cranston, R. I. Ginger-ale. No. 139,463; Feb. 1; v. 283; p. 176.
- Narrow Fabric Co., The, West Reading borough, near Reading, Pa. Elastic braids. No. 150,020; Dec. 27.
- Naschek, Samuel K., New York, N. Y. Dress-shields. No. 142,059; May 3; v. 286; p. 188.
- Nash, C. A., & Son, Inc., Norfolk, Va. Wall-board and roofing in rolls, &c. No. 142,060; May 3; v. 286; p. 188.
- Nash, C. A., & Son, Inc., Norfolk, Va. Locks and latches. No. 142,630; May 17; v. 286; p. 630.
- Nash, C. A., & Son, Inc., Norfolk, Va. Paints and painters' materials. No. 142,631; May 17; v. 286; p. 630.
- Nash, C. A., & Son, Inc., Norfolk, Va. Wall-board and roofing in rolls and ready cut for direct application. No. 143,410; May 31; v. 286; p. 1051.
- Nash, C. A., & Son, Inc., Norfolk, Va. Paints and pigments, colors, putty, &c. No. 144,614; July 12; v. 288; p. 425.
- Nash, C. A., & Son, Inc., Norfolk, Va. Locks and latches. No. 146,822; Sept. 20; v. 290; p. 636.
- Nash Company, The, St. Louis, Mo. Spark-intensifiers and ignition-detectors. No. 142,629; May 17; v. 286; p. 630.
- Nash Engineering Co., South Norwalk, Conn. Air-compressors, vacuum-pumps, vacuum-heating pumps, boiler-feed pumps, &c. No. 149,460; Dec. 13.
- Nash, Wylie T., Denver, Colo. Tonic for the blood and appetite. No. 141,621; Apr. 26; v. 285; p. 781.
- Nashua Manufg. Company, Nashua, N. H. Cotton piece goods—namely, cotton suitings. No. 139,356; Feb. 1; v. 283; p. 170.
- Nashua Manufg. Company, Nashua, N. H. Cotton piece goods—namely, cotton suitings. No. 139,842; Feb. 22; v. 283; p. 754.
- Nashville Pure Milk Company, Nashville, Tenn. Butter. No. 147,240; Oct. 4.
- Nashville Roller Mills, Nashville, Tenn. Self-rising wheat-flour. No. 142,061; May 3; v. 286; p. 188.
- Nashville Roller Mills, Nashville, Tenn. Wheat-flour. No. 143,691; June 7; v. 287; p. 186.
- Natelson, Meyer, New York, N. Y. Pajamas and night-shirts. No. 143,692; June 7; v. 287; p. 186.
- Nathan & Cie, Laboratoires Cadum, Courbevoie, France. Toilet and shaving soap. No. 150,021; Dec. 27.
- Nathan and Cohen Co., Inc., New York, N. Y. Silk and cotton mixture piece goods. No. 139,357; Feb. 1; v. 283; p. 170.
- Nathan and Gallo, Inc., New York, N. Y. Women's hats. No. 140,656; Mar. 22; v. 284; p. 746.
- Nathan Strauss & Co., New York, N. Y. Piece goods of cotton fabric and of cotton and wool combination fabric. No. 140,657; Mar. 22; v. 284; p. 746.
- Natif Medicine Co., Pekin, Ill. Antiseptic for asthma, neuralgia, and influenza. No. 140,182; Mar. 8; v. 284; p. 366.
- National Ammonia Company, The, St. Louis, Mo. Aqua-ammonia. No. 147,503; Oct. 18.
- National Aniline & Chemical Company, Incorporated, New York, N. Y. Food-colors. Nos. 139,008-13; Jan. 18; v. 282; p. 555.
- National Aniline & Chemical Company, Incorporated, New York, N. Y. Dyestuffs. Nos. 139,843-52; Feb. 22; v. 283; p. 754.
- National Aniline & Chemical Company Incorporated, New York, N. Y. Food-colors. No. 143,107; May 24; v. 286; p. 849.
- National Aniline & Chemical Company, Incorporated, New York, N. Y. Dyestuffs, intermediates, and certified food-colors. Nos. 144,243-50; June 28; v. 287; p. 775.
- National Aniline and Chemical Company Incorporated, New York, N. Y. Dyestuffs, intermediates, certified food-colors. Nos. 144,872-7; July 19; v. 288; p. 621.
- National Aniline & Chemical Company, Incorporated, New York, N. Y. Dyestuffs, intermediates, and certified food colors. No. 145,985; Aug. 23; v. 289; p. 789.
- National Aniline & Chemical Company, Incorporated, New York, N. Y. Dyestuffs, certified food colors, and intermediates. Nos. 147,133-6; Oct. 4.
- National Aniline & Chemical Company, Inc., New York, N. Y. Dyes, dyestuffs, and colors. No. 147,502; Oct. 18.
- National Aniline & Chemical Company, Inc., New York, N. Y. Periodical issued monthly. No. 148,172; Nov. 8.
- National Asbestos Mfg. Co., The, Jersey City, N. J. Shingles and slates made of asbestos and cement. No. 145,754; Aug. 16; v. 289; p. 696.
- National Association of Credit Men, New York, N. Y. Monthly publication. No. 144,615; July 12; v. 288; p. 425.
- National Automobile Dealers Ass'n, Chicago, Ill., and St. Louis, Mo. Printed books, pamphlets, circulars. No. 142,062; May 3; v. 286; p. 188.
- National Baking Company, Seattle, Wash. Bread. No. 150,022; Dec. 27.
- National Bank of Commerce in New York, New York, N. Y. Monthly periodical. No. 142,306; May 10; v. 286; p. 405.
- National Bank of Commerce in New York, New York, N. Y. Monthly periodical. No. 146,305; Sept. 6; v. 290; p. 201.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 143,108; May 24; v. 286; p. 849.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 143,693; June 7; v. 287; p. 186.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 144,905; July 19; v. 288; p. 622.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 145,164; July 26; v. 288; p. 815.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 145,231; July 26; v. 288; p. 817.
- National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 145,423; Aug. 2; v. 289; p. 180.
- National Biscuit Company, New York, N. Y. Biscuit and crackers. No. 146,655; Sept. 13; v. 290; p. 428.
- National Biscuit Company, New York, N. Y. Biscuit, crackers, and cake. No. 149,707; Dec. 20.
- National Biscuit Company, New York, N. Y. Biscuit and crackers. No. 149,708; Dec. 20.
- National Blank Book Co., Holyoke, Mass. Loose-leaf and bound blank books and indexes. No. 148,173; Nov. 8.
- National Carbon Company, Inc., New York, N. Y. Dry batteries. No. 138,678; Jan. 4; v. 282; p. 188.
- National Carbon Company, Inc., New York, N. Y. Refractory bricks. No. 138,679; Jan. 4; v. 282; p. 188.
- National Carbon Company, Inc., New York, N. Y. Electric apparatus. No. 140,539; Mar. 15; v. 284; p. 586.
- National Carbon Company, Inc., New York, N. Y. Dry batteries. No. 140,715; Mar. 22; v. 284; p. 751.
- National Carbon Company, Inc., Cleveland, Ohio. Electric batteries, flashlights, &c. No. 141,183; Apr. 12; v. 285; p. 382.
- National Carbon Company, Inc., New York, N. Y. Arc-light carbons. No. 142,381; May 10; v. 286; p. 409.



- National Carbon Company, Inc., Cleveland, Ohio. Electrical apparatus. No. 144,445; July 5; v. 288; p. 194.
- National Carbon Company, Inc., New York, N. Y. Dry batteries. No. 146,306; Sept. 6; v. 290; p. 201.
- National Cash Register Company, The, Dayton, Ohio. Periodicals issued weekly or oftener. No. 148,174; Nov. 8.
- National Checking Company, St. Paul, Minn. Correspondence-envelops. No. 150,023; Dec. 27.
- National Chemical Company, Syracuse, N. Y. Soap. No. 148,175; Nov. 8.
- National City Commercial Co., National City, Calif. Canned turtle-meat. No. 139,176; Jan. 25; v. 282; p. 735.
- National Cloak & Suit Co., New York, N. Y. Ladies', misses', boys', and men's shoes and oxfords. No. 142,632; May 17; v. 286; p. 630.
- National Commodities Co., Philadelphia, Pa. Sanitary human-hair nets. No. 143,694; June 7; v. 287; p. 186.
- National Commodities Co., Philadelphia, Pa. Sanitary human-hair nets. No. 147,374; Oct. 11.
- National Crayon Company, Philadelphia, Pa. Crayons. No. 144,871; July 19; v. 288; p. 621.
- National Decorative Company, The, Camden, N. J. Window valances, panels, and drape-shades made up of cotton goods. No. 147,651; Oct. 25.
- National Drug and Chemical Co. of Canada, Limited, Montreal, Quebec, Canada. Poison for gophers, rats, foxes, &c. No. 140,911; Mar. 29; v. 284; p. 947.
- National Drug and Chemical Co. of Canada, Limited, Montreal, Quebec, Canada. Laxative cascara-bromid-quinin tablets. No. 140,912; Mar. 29; v. 284; p. 947.
- National Drug Stores Corporation, New York, N. Y. Certain medicinal, chemical, and pharmaceutical preparations. No. 147,652; Oct. 25.
- National Drug Stores Corporation, New York, N. Y. Soap cream used before shaving. No. 149,180; Dec. 6.
- National Enameling & Stamping Co., Milwaukee, Wis., and Baltimore, Md. Oil-stoves. No. 145,755; Aug. 16; v. 289; p. 596.
- National Enameling & Stamping Co., Milwaukee, Wis., and Baltimore, Md. Woven wicks. No. 149,597; Dec. 13.
- National Equipment Company, Springfield, Mass. Monthly periodicals. No. 145,163; July 26; v. 288; p. 815.
- National Fly Catcher Company Limited, Montreal, Quebec, Canada. Fly papers, traps and catchers of all kinds. No. 142,633; May 17; v. 286; p. 630.
- National Hair Goods Co., Chicago, Ill. Hair-nets. No. 143,258; May 24; v. 286; p. 857.
- National Hair Goods Co., Chicago, Ill. Wigs. No. 147,653; Oct. 25.
- National Lead Company of California, San Francisco, Calif. White lead and lead oxids. No. 147,654; Oct. 25.
- National Licorice Company, Brooklyn, N. Y. Licorice candy. No. 144,878; July 19; v. 288; p. 621.
- National Licorice Company, Brooklyn, N. Y. Licorice candy. No. 148,904; Nov. 29.
- National Magnesite Products Corporation, New York, N. Y. Paints, paint enamels, and finishes of a paint nature. No. 142,634; May 17; v. 286; p. 630.
- National Marking Machine Company, The, Cincinnati, Ohio. Inks and inking-material supplies. Nos. 140,658-9; Mar. 22; v. 284; p. 746.
- National Mayonnaise Machine Co., Inc., Brooklyn, N. Y. Mayonnaise-machines. No. 147,504; Oct. 18.
- National Mercantile Corporation of California, San Francisco, Calif., assignor to Matsumoto Trading Company Inc. Silks in the bulk and in the piece. No. 143,109; May 24; v. 286; p. 849.
- National Mfg. Company, Worcester, Mass., assignor to Wirewre Spencer Steel Corporation. Household and culinary utensils made from wire. No. 139,853; Feb. 22; v. 283; p. 754.
- National Mineral Products Co., Chicago, Ill. Molding material—namely, parting-sand for foundry use in molding. No. 144,035; June 21; v. 287; p. 582.
- National Oil Products Co., Harrison, N. J. Oils suitable for the tanning of leather. No. 139,015; Jan. 18; v. 282; p. 555.
- National Oil & Supply Company, Newark, N. J. Lubricating-oils. No. 139,177; Jan. 25; v. 282; p. 735.
- National Paint Syndicate, Inc., New York, N. Y. Paint enamels, ready-mixed paints, varnishes, and furniture-polish. No. 149,461; Dec. 13.
- National Pharmaceutical Company, Cleveland, Ohio. Toilet preparations. No. 145,756; Aug. 16; v. 289; p. 596.
- National Pharmacy Co., Oakland, Calif. Nipple-cerate. No. 141,417; Apr. 19; v. 285; p. 568.
- National Pharmacy Co., Oakland, Calif. Medicinal preparation. No. 143,411; May 31; v. 286; p. 1051.
- National Products Company, Cedar Rapids, Iowa. Malted syrup for table use. No. 143,695; June 7; v. 287; p. 186.
- National Ring Traveler Co., Providence, R. I. Buttons for shoes and clothing. No. 138,680; Jan. 4; v. 282; p. 188.
- National Ring Traveler Co., Providence, R. I. Shoe and clothing buttons. No. 139,014; Jan. 18; v. 282; p. 555.
- National Ring Traveler Co., Providence, R. I. Shoe and clothing buttons. No. 139,016; Jan. 18; v. 282; p. 555.
- National Ring Traveler Co., Providence, R. I. Shoe and clothing buttons. No. 139,358; Feb. 1; v. 283; p. 170.
- National Ring Traveler Co., Providence, R. I. Ring-travelers. No. 139,582; Feb. 8; v. 283; p. 352.
- National Ring Traveler Co., Providence, R. I. Ring-travelers. No. 141,184; Apr. 12; v. 285; p. 382.
- National Ring Traveler Co., Providence, R. I. Belt-hooks. No. 141,622; Apr. 26; v. 285; p. 781.
- National Ring Traveler Co., Providence, R. I. Ring-travelers. No. 142,063; May 3; v. 286; p. 188.
- National Ring Traveler Co., Providence, R. I. Shoe and clothing buttons. No. 142,635; May 17; v. 286; p. 630.
- National Ring Traveler Co., Providence, R. I. Ring-travelers. No. 143,110; May 24; v. 286; p. 849.
- National Ring Traveler Co., Providence, R. I. Ring-travelers. No. 144,251; June 28; v. 287; p. 776.
- National Ring Traveler Co., Providence, R. I. Ring-travelers. No. 145,424; Aug. 2; v. 289; p. 180.
- National Rubber & Specialties Co., The, Cincinnati, Ohio. Adhesives, compounds, cements, &c. No. 142,064; May 3; v. 286; p. 188.
- National Sales Company, The, assignors to J. W. Sutherland, Chicago, Ill. Tire tubings and casings made of rubber. No. 142,065; May 3; v. 286; p. 188.
- National Sales Company, The, Memphis, Tenn. Inner liners, tubes, boots, patches, and flaps. No. 142,066; May 3; v. 286; p. 188.
- National Sales Company, Des Moines, Iowa. Corn and popcorn products, &c. No. 146,543; Sept. 6; v. 290; p. 220.
- National Stamping & Electric Works, Chicago, Ill. Gasolene and kerosene lanterns, portable and hanging lamps, and system-lamps. No. 147,730; Oct. 25.
- National Steel Products Company, The, Dayton, Ohio. Shock-absorbers for vehicles. No. 149,181; Dec. 6.
- National Storm Insurance Bureau, New York, N. Y. Storm-charts. Nos. 140,497-8; Mar. 15; v. 284; p. 584.
- National Supply Company, The, Toledo, Ohio. Gas and oil burners, coal heating-stoves, Welsbach mantles, &c. No. 141,185; Apr. 12; v. 285; p. 382.
- National Tank and Steel Company, Wichita Falls, Tex. Tanks. No. 143,111; May 24; v. 286; p. 849.
- National Thrift Association, Minneapolis, Minn. Certain blank books and forms. No. 148,176; Nov. 8.
- National Tire & Rubber Company, The, East Palestine, Ohio. Rubber tires and tubes. No. 144,879; July 19; v. 288; p. 621.
- National Tool Company, The, Cleveland, Ohio. Certain metal-working tools. No. 149,598; Dec. 13.
- National Toy and Tinsel Mfg. Co., Manitowoc, Wis. Certain toys. No. 149,182; Dec. 6.
- National Trading Company, Chicago, Ill. Hair-nets. No. 141,788; Apr. 26; v. 285; p. 791.
- National Trading Company, Chicago, Ill. Hair-nets. No. 144,880; July 19; v. 288; p. 621.
- National Trading Company, Chicago, Ill. Hair-nets. No. 144,906; July 19; v. 288; p. 622.
- National Trading Company, Chicago, Ill. Hair-nets and veils. No. 146,544; Sept. 6; v. 290; p. 220.
- National Trading Company, Chicago, Ill. Hair-nets. No. 150,024; Dec. 27.
- National Twist Drill & Tool Company, Detroit, Mich. Twist-drills. No. 141,418; Apr. 19; v. 285; p. 568.
- National Veneer Products Company, Mishawaka, Ind. Laundry-hampers or clothes-hampers. No. 144,446; July 5; v. 288; p. 194.
- National Weather-Proof Paint Co., Milwaukee, Wis. Waterproof dressing. No. 142,382; May 10; v. 286; p. 409.
- National Wood Renovating Company, Kansas City, Mo. Soap. No. 140,913; Mar. 29; v. 284; p. 947.
- Native Son Orchards Co., Lindsay, Calif. Fresh and preserved pomegranates. No. 146,304; Sept. 6; v. 290; p. 201.
- Nature Polish Company, Inc., The, Seattle, Wash. Cleanser for automobiles, pianos, brass, &c. No. 142,067; May 3; v. 286; p. 188.
- Naumkeag Steam Cotton Co., Salem, Mass. Sheets and pillow-cases. No. 143,860; June 14; v. 287; p. 401.
- Naumkeag Steam Cotton Co., Salem, Mass. Sheets and pillow-cases. Nos. 143,862-3; June 14; v. 287; p. 401.
- Naumkeag Steam Cotton Co., Salem, Mass. Sheets, pillow-cases, and cotton piece goods. No. 145,002; July 19; v. 288; p. 627.
- Navajo Laboratories, Inc., Casper, Wyo. Liquid spoke-fastener. No. 148,177; Nov. 8.
- Navajo Laboratories, Inc., Casper, Wyo. Mechanics' soap. No. 148,178; Nov. 8.
- Navajo Laboratories, Inc., Casper, Wyo. Automobile-polish. No. 150,025; Dec. 27.
- Navy League of the United States, Washington, D. C. Fancy silk or cloth bags designed for holding knitting or sewing material. No. 144,907; July 19; v. 288; p. 622.
- Nazareth Waist Co., Nazareth, Pa. Waists and vests. No. 141,186; Apr. 12; v. 285; p. 382.
- Nazel Engineering & Machine Works, Philadelphia, Pa. Power-hammers. No. 141,187; Apr. 12; v. 285; p. 382.
- Nazma Mfg. Co. Inc., New York, N. Y. Toilet preparations. Nos. 140,914-15; Mar. 29; v. 284; p. 947.
- Neal, Dr. B. E., Medicine Company, San Francisco, Calif. General tonic in tablet or pill form. No. 148,490; Nov. 15.



*Alphabetical list of registrants of trade-marks—Continued.*

- Neben Manufacturing Company, Inc., New York, N. Y. Table-napkins, table-covers, and doilies made of paper. No. 143,696; June 7; v. 287; p. 186.
- Nebble, Arnold, *et al.* (See Raymond, Le Roy, assignor.)
- Nebble & Company, Inc., New York, N. Y. Soaps. No. 143,412; May 31; v. 286; p. 1051.
- Nebraska Consolidated Mills Company, The, Grand Island and Hastings, Nebr. Wheat-flour. No. 147,655; Oct. 25.
- Nebraska Wall Paper Company, Omaha, Nebr. Wall-paper. No. 143,413; May 31; v. 286; p. 1051.
- Necedah Manufacturing Co., Necedah, Wis. Spark-timers for internal-combustion engines. No. 147,800; Nov. 1.
- Nedro Laboratories, Inc., New York, N. Y. General tonic. No. 148,905; Nov. 29.
- Need-No-Irone Company, Rock Island, Ill. Razor-strop dressing. No. 142,218; May 3; v. 286; p. 196.
- Needham Products Company, The, Cleveland, Ohio. Medicine. No. 147,137; Oct. 4.
- Neenah Paper Co., Neenah, Wis. Bond-paper for ledger, drawing, writing, and wrapping purposes. No. 143,697; June 7; v. 287; p. 186.
- Neenah Paper Company, Neenah, Wis. Ledger-paper. No. 142,636; May 17; v. 286; p. 630.
- Neenah Paper Company, Neenah, Wis. Ledger, writing, and bond paper for writing and printing purposes. No. 149,462; Dec. 13.
- Neenah Shoe Company, Neenah, Wis. Boys' shoes made wholly or in part of leather and cloth. No. 143,698; June 7; v. 287; p. 186.
- Neil Brothers Grain Co., Spokane, Wash. Scratch food, chick food, mixed grain feeds for poultry, &c. No. 143,112; May 24; v. 286; p. 849.
- Neiman, Solomon, New York, N. Y. Toilet preparations. No. 139,854; Feb. 22; v. 283; p. 754.
- Nekritz, Louis, Brooklyn, N. Y. Varnishes. No. 147,138; Oct. 4.
- Nelin, Maans N., Rockford, Ill. Chocolate peanut-candy confection. No. 142,068; May 3; v. 286; p. 188.
- Nelson & Company, Oviedo, Fla. Fresh citrus fruits. Nos. 143,113-4; May 24; v. 286; p. 849.
- Nelson-Eisemann-Quist Co., The, Chicago, Ill. Carbon-paper and typewriter-ribbons. No. 142,637; May 17; v. 286; p. 630.
- Nelson, Harry H., Elmira, N. Y. Non-alcoholic, non-cereal maltless beverages and syrups for making same. No. 150,026; Dec. 27.
- Nelson, M. L., Furniture Co., Chicago, Ill. Furniture. No. 143,115; May 24; v. 286; p. 849.
- Nelson, William E., San Antonio, Tex. Concrete building-blocks. No. 142,638; May 17; v. 286; p. 630.
- Nesheim, W. M. (See Rudd, E. M., assignor.)
- Neslo Dry Cleaner Manufacturing Company, The, Green Bay, Wis. Apparatus for cleaning garments by the dry-cleaning process. No. 142,639; May 17; v. 286; p. 630.
- Nessler, Charles, New York, N. Y. Electric permanent-hair-waving device. No. 142,219; May 3; v. 286; p. 196.
- Nestlé's Food Company, Inc., New York, N. Y. Malted milk. No. 145,757; Aug. 16; v. 289; p. 596.
- Nestlé's Food Company, Inc., New York, N. Y. Condensed milk. No. 145,758; Aug. 16; v. 289; p. 596.
- Nestlé's Food Company, Inc., New York, N. Y. Sterilized milk. No. 145,759; Aug. 16; v. 289; p. 596.
- Nestlé's Food Company, Inc., New York, N. Y. Evaporated milk. No. 147,139; Oct. 4.
- Nestlé's Food Company, Inc., New York, N. Y. Condensed milk. No. 147,140; Oct. 4.
- Nestlé's Food Company, Inc., New York, N. Y. Unsweetened evaporated milk. No. 148,906; Nov. 29.
- Nettleton, A. E., Company, Syracuse, N. Y. Men's boots, shoes, and puttees of leather. No. 139,688; Feb. 8; v. 283; p. 357.
- Neuman & Rubin, Philadelphia, Pa. Bathing-rompers. No. 149,183; Dec. 6.
- Neu-Pal Manufacturing Company, New York, N. Y. Overcoats, coats, vests, trousers, and pants. No. 143,116; May 24; v. 286; p. 849.
- Neuschaefer, Alfred D., New York, N. Y. Sex-indicator adapted for testing eggs. No. 139,583; Feb. 8; v. 283; p. 352.
- Neuss, Hesslein & Co. Inc., New York, N. Y. Printed cotton piece goods. No. 140,606; Mar. 22; v. 284; p. 745.
- Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods—namely, gray cotton goods. No. 146,309; Sept. 6; v. 290; p. 201.
- Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods—namely, colored drills. No. 147,141; Oct. 4.
- Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods. No. 147,656; Oct. 25.
- Neuss, Hesslein & Co. Inc., New York, N. Y. Woven cotton piece goods—namely, wide bleached sheetings. No. 148,179; Nov. 8.
- Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods—namely, cotton drills. No. 148,180; Nov. 8.
- Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods. No. 148,693; Nov. 22.
- Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods—namely, cotton canvas. No. 148,694; Nov. 22.
- Neustadt, Victor, New York, N. Y. Malt and cereal beverages, malt extracts, and tonics. No. 146,308; Sept. 6; v. 290; p. 201.
- Never-Skid Manufacturing Co., Incorporated, New York, N. Y. Non-skid chains and double-tired wheels. No. 146,545; Sept. 6; v. 290; p. 220.
- Never-Stretch Mattress Company, Philadelphia, Pa. Mattresses. No. 148,767; Nov. 22.
- Neverset Hosiery Mills, Inc., New York, N. Y. Hosiery and underwear of knitted, netted, and textile fabrics. No. 148,907; Nov. 29.
- Neverslip Manf. Co., The, New Brunswick, N. J. Horse-shoes and horseshoe-calks. No. 149,709; Dec. 20.
- New Castle Leather Co., Inc., New York, N. Y. Unfinished and partly finished leather made from kid, goat, calf, and cow hide. No. 139,464; Feb. 1; v. 283; p. 176.
- New Castle Rubber Co., New Castle, Pa. Rubber inner tubes and pneumatic-tire casings. No. 139,178; Jan. 25; v. 282; p. 735.
- New Castle Rubber Co., New Castle, Pa. Pneumatic-tire casings made of rubber for automobiles. No. 142,307; May 10; v. 286; p. 405.
- New England Bedding Company, Boston, Mass. Couch-hammocks. No. 144,252; June 28; v. 287; p. 776.
- New England Brewing Company, Jersey City, N. J., and Boston, Mass. Concentrated material of malt and hops. No. 147,142; Oct. 4.
- New England Confectionery Company, Boston, Mass. Candy. No. 146,122; Aug. 30; v. 289; p. 1015.
- New England Confectionery Company, Boston, Mass. Candy. No. 147,657; Oct. 25.
- New England Knitting Company, Winsted, Conn. Woven and knitted underwear. No. 148,181; Nov. 8.
- New England Lime Co., Danbury, Conn. Building-lime. Nos. 139,739-40; Feb. 15; v. 283; p. 543.
- New England Lime Co., Danbury, Conn. Building-lime. No. 142,308; May 10; v. 286; p. 405.
- New England Newspaper Publishing Company, Boston, Mass. Daily newspaper. No. 148,491; Nov. 15.
- New England Waste Company, Boston, Mass. Egyptian-waste-cotton strips. No. 144,881; July 19; v. 288; p. 621.
- New Era Motor Corporation, New York, N. Y. Electrical motors. No. 145,760; Aug. 16; v. 289; p. 596.
- New Era Mfg. Co., New York, N. Y. Check-writers. No. 138,841; Jan. 11; v. 282; p. 377.
- New Era Shirt Co., St. Louis, Mo. Clothing—namely, men's and boys' dress, negligée, and work shirts. No. 143,117; May 24; v. 286; p. 849.
- New Freedom Manufacturing Company, New Freedom, Pa. Middy-blouses. No. 147,375; Oct. 11.
- New Gold Pharmacal Co., Chicago, Ill. Face-cream. No. 143,118; May 24; v. 286; p. 849.
- New Jersey Car Spring & Rubber Co., Inc., Jersey City, N. J. Rubber belting and hose. No. 149,463; Dec. 13.
- New Jersey Optical Co., Newark, N. J. Spectacle and eyeglass frames and mountings. No. 144,253; June 28; v. 287; p. 776.
- New Jersey Optical Co., Newark, N. J. Eyeglass frames and mountings. No. 147,605; Oct. 18.
- New Jersey Zinc Company, The, Newark and Franklin borough, N. J. Slab-zinc. No. 144,137; June 21; v. 287; p. 589.
- New Jersey Zinc Company, The, Newark, and borough of Franklin, N. J. Zinc oxid. No. 144,530; July 5; v. 288; p. 199.
- New Jersey Zinc Company, The, New York, N. Y. Paint-pigments. No. 148,182; Nov. 8.
- New Jersey Zinc Company, The, New York, N. Y. Zinc oxid used in the manufacture of inks. No. 148,183; Nov. 8.
- New Jersey Zinc Company, The, New York, N. Y. Certain chemical preparations. No. 148,184; Nov. 8.
- New Jersey Zinc Company, The, New York, N. Y. Zinc. No. 148,185; Nov. 8.
- New Orleans Coffee Company, New Orleans, La. Coffee, table-syrups, molasses, and rice. No. 139,584; Feb. 8; v. 283; p. 352.
- New Orleans Paint & Color Company, Inc., New Orleans, La. Dry, paste, and ready-mixed paints and varnishes. No. 142,069; May 3; v. 286; p. 188.
- New Process Chemical Co., Inc., New York, N. Y. Ready-mixed and waterproofing paints, waterproofing-fillers in the nature of paint. No. 149,184; Dec. 6.
- New Safety Paper Company, Boston, Mass. Paper to receive writing. No. 147,876; Nov. 1.
- New South Rubber Company, Atlanta, Ga. Certain outer casings, and inner tubes for tires. No. 147,376; Oct. 11.
- New York Association for the Blind, The, New York, N. Y. Brooms, dusters, brushes, &c. No. 139,179; Jan. 25; v. 282; p. 735.
- New York Boys' Shops, Inc., New York, N. Y. Suspenders, garters, armbands, &c. No. 138,682; Jan. 4; v. 282; p. 188.
- New York Merchandise Company, New York, N. Y. Safety-pins. No. 138,683; Jan. 4; v. 282; p. 188.
- New York Merchandise Company, New York, N. Y. Hair-nets and veils. Nos. 141,623-4; Apr. 26; v. 285; pp. 781-2.
- New York Merchandise Company, New York, N. Y. Safety-pins. No. 142,070; May 3; v. 286; p. 188.
- New York Merchandise Company, New York, N. Y. Hair-nets. No. 148,186; Nov. 8.



- New York Merchandise Company, New York, N. Y. Hair-nets. Nos. 148,492-3; Nov. 15.
- New York Merchandise Company, New York, N. Y. Snap-fasteners. No. 148,494; Nov. 15.
- New York & New Jersey Lubricant Co., New York, N. Y. Lubricating oils, greases, and compounds. No. 141,791; Apr. 26; v. 285; p. 791.
- New York Quebracho Extract Company, New York, N. Y. Tanning extracts. No. 147,143; Oct. 4.
- New York Quebracho Extract Company, New York, N. Y. Tanning extracts. Nos. 147,377-9; Oct. 11.
- New York Quebracho Extract Company, New York, N. Y. Mordants for textiles. No. 147,380; Oct. 11.
- New York Quebracho Extract Company, New York, N. Y. Tanning extracts. No. 147,381; Oct. 11.
- New York Recording Laboratories, Port Washington, Wis. Phonographs, phonograph-records, record-albums, &c. No. 144,883; July 19; v. 288; p. 621.
- New York Recording Laboratories, The, Port Washington, Wis. Phonographs and phonograph-records, record-albums, &c. No. 148,908; Nov. 29.
- New York Store Mercantile Company, Cairo, Ill. Foods. No. 146,310; Sept. 6; v. 290; p. 201.
- New York Tribune, Inc., New York, N. Y. Title of a newspaper-section. No. 147,801; Nov. 1.
- New York Wood Finishers Supply Co., Inc., New York, N. Y. Paints and painters' materials. No. 141,419; Apr. 19; v. 285; p. 568.
- Newark Tortoise Shell Novelty Co., Newark, N. J. Hand-mirrors and picture-frames. No. 143,818; June 7; v. 287; p. 192.
- Newark Tortoise Shell Novelty Co., Newark, N. J. Combs, barrettes, and hairpins not of precious metals. No. 145,895; Aug. 16; v. 289; p. 602.
- Newark Tortoise Shell Novelty Co., Newark, N. J. Hair-receivers, bottle-holders, salve-jars, pin boxes and trays. No. 147,059; Sept. 27; v. 290; p. 808.
- Newark Tortoise Shell Novelty Co., Newark, N. J. Hair-receivers, bottle-holders, salve-jars, pin-boxes, and pin-trays. No. 149,710; Dec. 20.
- Newark Varnish Works, Newark, N. J. Varnish. No. 141,789; Apr. 26; v. 285; p. 791.
- Newbold, John L., Washington, D. C. Candy. No. 146,823; Sept. 20; v. 290; p. 636.
- Newbro Manufacturing Company, Atlanta, Ga. Hair-pomade. No. 146,824; Sept. 20; v. 290; p. 636.
- Newhall, H. M., & Co., San Francisco, Calif. Canned fish, dried beans, canned fruits, &c. No. 139,017; Jan. 18; v. 282; p. 555.
- Newman, I., & Sons, New Haven, Conn. Corsets. No. 146,546; Sept. 6; v. 290; p. 220.
- Newman, Ida A., New York, N. Y. Soap powder. No. 144,882; July 19; v. 288; p. 621.
- Newman, Julius C., Cleveland, Ohio. High-grade cigars. No. 146,307; Sept. 6; v. 290; p. 201.
- Newman Tire & Rubber Co. Inc., New York, N. Y. Rubber tires and tubes. No. 141,790; Apr. 26; v. 285; p. 791.
- Newport Chemical Works, Incorporated, Passaic, N. J. Dyes. No. 150,027; Dec. 27.
- Newport Optical Manufacturing Co., Brooklyn, N. Y. Hinges. No. 145,281; July 26; v. 288; p. 824.
- Newport Rolling Mill Co., Newport, Ky. Building material. No. 138,681; Jan. 4; v. 282; p. 188.
- Newport Rolling Mill Co., Newport, Ky. Conductor-pipes, elbows, and shoes. No. 139,585; Feb. 8; v. 283; p. 352.
- Newport Rolling Mill Co., Newport, Ky. Corrugated metal sheets and plain metal sheets. No. 139,855; Feb. 22; v. 283; p. 754.
- News Syndicate Co. Inc., New York, N. Y. Newspapers. No. 143,119; May 24; v. 286; p. 849.
- News Syndicate Co., Inc., New York, N. Y. Newspapers published in the city of New York. No. 149,711; Dec. 20.
- Newton, James E., Fall River, Mass. Rhode Island Indian-corn meal. No. 141,188; Apr. 12; v. 285; p. 382.
- Newton Steel Company, The, Youngstown, Ohio. Coke-plates, black sheets, (pickled and non-pickled,) and black sheets blued. No. 147,506; Oct. 18.
- Newton Tea & Spice Company, The, Cincinnati, Ohio. Substitute for whole fresh eggs. No. 140,499; Mar. 15; v. 284; p. 584.
- Ney, Jos., & Sons Co., Harrisonburg, Va. Suits, coats, hats, and wraps for ladies. No. 143,699; June 7; v. 287; p. 186.
- Niagara Manufacturing Company, The, Lucas, Ohio. Wrenches. No. 147,382; Oct. 11.
- Niagara Wall Board Company Incorporated, Buffalo, N. Y. Wall and sheathing board and building-paper. No. 141,297; Apr. 12; v. 285; p. 388.
- Nicholas, L. V., Oil Company, The, Omaha, Nebr. Lubricating oils and greases. No. 146,591; Sept. 13; v. 290; p. 422.
- Nicholas, L. V., Oil Company, The, Omaha, Nebr. Liquid used for cleaning clothing. No. 149,185; Dec. 6.
- Nichols Copper Co., New York, N. Y. Copper cakes. No. 140,049; Mar. 1; v. 284; p. 177.
- Nichols, John N., Manchester, England. Essence for making a non-alcoholic, non-aerated, &c., beverage. No. 139,586; Feb. 8; v. 283; p. 352.
- Nicholson File Company, Providence, R. I. Files and rasps, holders and handles therefor. No. 142,640; May 17; v. 286; p. 630.
- Nicholson File Company, Providence, R. I. Files and rasps. No. 144,017; June 21; v. 287; p. 581.
- Nicholson, Michael, Worcester, Mass. Medicine for the treatment of epilepsy and nervous troubles. No. 146,311; Sept. 6; v. 290; p. 201.
- Nichthaus & Levy, Brooklyn, N. Y. Washboilers. Nos. 140,288-91; Mar. 8; v. 284; p. 373.
- Nichthaus & Levy, Brooklyn, N. Y. Ash-sifters. No. 141,792; Apr. 26; v. 285; p. 791.
- Nichthaus & Levy, Brooklyn, N. Y. Certain named tin, copper, galvanized, and japanned ware. No. 149,600; Dec. 13.
- Nickel-Alloys Company, Pittsburgh, Pa. Nickel sheets, tubes, rods, wire, billets, slabs, and strips. No. 144,254; June 28; v. 287; p. 776.
- Nicolait, Eugene B., Brooklyn, N. Y. Bakers' products—viz., bread. No. 146,120; Aug. 30; v. 289; p. 1015.
- Nicu Steel Corporation, Limited, Toronto, Ontario, Canada. Nickel-copper-alloy iron and steel. No. 139,587; Feb. 8; v. 283; p. 352.
- Niedner's, Chas., Sons Company, Malden, Mass. Fabric fire-hose. No. 145,761; Aug. 16; v. 289; p. 596.
- Niedzielski, Albert W., Chicago, Ill. Ointment or salve for swelling, bruises, muscular pains, &c. No. 139,856; Feb. 22; v. 283; p. 754.
- Nielson, Henry L., New York, N. Y. Signs made of wood and metal. No. 143,414; May 31; v. 286; p. 1051.
- Nieman, Eva, Cincinnati, Ohio. Printed books and pamphlets in series. No. 148,495; Nov. 15.
- Nigro Nicholas, Dallas, Tex. Foods. No. 142,071; May 3; v. 286; p. 189.
- Niles-Bement-Pond Company, New York, N. Y. Radial drills and attachments therefor. No. 145,165; July 26; v. 288; p. 815.
- Nilsen, Anth. B., & Co., Ltd., Christiania, Norway. Wood-pulp and cellulose. Nos. 140,660-61; Mar. 22; v. 284; p. 746.
- Nilson-Miller Company, Hoboken, N. J. Piston-rings. No. 145,762; Aug. 16; v. 289; p. 596.
- Niolon, A. H., & Son, Meridian, Miss. Coffee, spices, chicory, and coffee, &c. No. 139,588; Feb. 8; v. 283; p. 352.
- Niolon, A. H., & Son, Meridian, Miss. Coffee and coffee and chicory. No. 139,589; Feb. 8; v. 283; p. 352.
- Niolon, A. H., & Son, Meridian, Miss. Coffee. No. 139,590; Feb. 8; v. 283; p. 352.
- Niolon, A. H., & Son, Meridian, Miss. Coffee and peanut-butter. No. 140,183; Mar. 8; v. 284; p. 366.
- Niolon, A. H., & Son, Meridian, Miss. Coffee, coffee-chicory, and cereal. No. 140,500; Mar. 15; v. 284; p. 584.
- Nipple, E. & S., Company, Boston, Mass. Nursing-nipples. No. 149,599; Dec. 13.
- Nishiguchi, Sumizo, Kure, Hiroshima, Japan. Medicines and pharmaceutical preparations. No. 143,120; May 24; v. 286; p. 849.
- Nissen, John J., Baking Company, Portland, Me. Bread. No. 139,857; Feb. 22; v. 283; p. 754.
- Nixon Hardware Co., Rome, Ga. Wagons, buggies, and surreys. No. 140,501; Mar. 15; v. 284; p. 585.
- Noble & Westbrook Manufacturing Company, East Hartford and Hartford, Conn. Marking and stamping machines. No. 142,641; May 17; v. 286; p. 630.
- Nocatee Citrus Growers' Association, Nocatee, Fla. Fresh citrus fruits. No. 140,050; Mar. 1; v. 284; p. 177.
- Nocatee Citrus Growers' Association, Nocatee, Fla. Fresh citrus fruits. No. 143,121; May 24; v. 286; p. 849.
- Noco Petroleum Company, New York, N. Y. Petroleum jelly. No. 145,763; Aug. 16; v. 289; p. 596.
- Noiseless Typewriter Company, The, Middletown, Conn. Typewriting-machines. No. 138,914; Jan. 11; v. 282; p. 381.
- No-Leak-O Piston Ring Company, Baltimore, Md. Piston-rings. No. 146,656; Sept. 13; v. 290; p. 428.
- No-Leak-O Piston Ring Company, Baltimore, Md. Piston-rings. No. 149,186; Dec. 6.
- Nolte, Augustus B., Springfield, Ohio. Castings made of bronze and brass. No. 138,915; Jan. 11; v. 282; p. 381.
- Nonotuck Silk Company, Florence, Mass. Cotton and silk thread and yarn. No. 142,309; May 10; v. 286; p. 405.
- Nonotuck Silk Company, Florence, Mass. Silk and embroidery threads and cottons. No. 143,415; May 31; v. 286; p. 1051.
- Nonotuck Silk Company, Northampton, Mass. Piece goods, of silk, &c. No. 149,712; Dec. 20.
- Noonan, T., & Sons Company, Boston, Mass. Hair-tonic. No. 144,329; June 28; v. 287; p. 782.
- Noonan, T., & Sons Company, Boston, Mass. Hair-dressing preparations. No. 145,986; Aug. 23; v. 289; p. 789.
- Noonan, T., & Sons Company, Boston, Mass. Hair-tonic. No. 146,046; Aug. 23; v. 289; p. 793.
- Norington, Isaac, Zent, Ark. Preparation for use in the treatment for hog-cholera. No. 140,184; Mar. 8; v. 284; p. 366.
- Norfolk Truckers Exchange, Norfolk, Va. Fresh potatoes. No. 149,464; Dec. 13.
- Norma Chocolate Company, Inc., Brooklyn, N. Y. Cocoa. No. 139,359; Feb. 1; v. 283; p. 170.
- Norma-Tone Co., Boston, Mass. Laxative tablet. No. 139,018; Jan. 18; v. 282; p. 555.
- Norman, Hodge W., Phoenix, Ariz. Liquid medicinal preparation for tuberculosis. No. 146,312; Sept. 6; v. 290; p. 201.
- Norris, Inc., Atlanta, Ga. Chocolates, bonbons, and candies. No. 138,842; Jan. 11; v. 282; p. 377.
- North American Dye Corporation, Mount Vernon, N. Y. Dyes. No. 146,121; Aug. 30; v. 289; p. 1015.



*Alphabetical list of registrants of trade-marks—Continued.*

- North American Ginseng Co., Inc., assignor to Namco Products Corporation, New York, N. Y. Hair-nets. No. 146,313; Sept. 6; v. 290; p. 201.
- North American Oil & Refining Corporation, Oklahoma, Okla. Gasolene, kerosene, distillate, gas, and fuel oils. No. 140,502; Mar. 15; v. 284; p. 535.
- North Billerica Co., North Billerica, Mass. Certain piece goods and blankets. No. 147,653; Oct. 25.
- North East Electric Company, Rochester, N. Y. Electric starting, lighting, and ignition apparatus for motor-vehicles. No. 141,189; Apr. 12; v. 285; p. 382.
- North Ontario Packing Co., Los Angeles, Calif. Lemonade-syrup. No. 139,592; Feb. 8; v. 283; p. 352.
- North St. Paul Casket Company, North St. Paul, Minn. Caskets and coffins. No. 145,764; Aug. 16; v. 289; p. 596.
- Northam Warren Corporation. (See Cutex Corporation.)
- Northam Warren Corporation, New York, N. Y. Toilet preparations. No. 141,420; Apr. 19; v. 285; p. 568.
- Northam Warren Corporation, New York, N. Y. Toilet preparations. No. 143,821; June 7; v. 287; p. 193.
- Northern Jobbing Company, Chicago, Ill. Shoes made of leather, rubber, fabric, or combination of same. No. 149,187; Dec. 6.
- Northern New York Milk Corp'n., Pierrepont Manor, N. Y. Condensed milk. No. 148,187; Nov. 8.
- Northern Pickle Company, Tacoma, Wash. Condiments, chow-chow, mustard, and table sauce. No. 142,072; May 3; v. 286; p. 189.
- Northern Pickle Company, Tacoma, Wash. Apple cider. No. 142,642; May 17; v. 286; p. 630.
- Northern Wisconsin Produce Co., Manitowoc, Wis. Eggs. No. 139,591; Feb. 8; v. 283; p. 352.
- Northey Manufacturing Company, Waterloo, Iowa. Refrigerators and cooling-rooms. No. 143,416; May 31; v. 286; p. 1051.
- Northfield Milk Products Co., Minneapolis, Minn. Evaporated milk. No. 139,465; Feb. 1; v. 283; p. 176.
- Northrup Equipment Company, Parkersburg, W. Va. Oil-well pumps, valves, and other parts of pumps, and oil-well pumping equipment. No. 149,188; Dec. 6.
- Northrup, King & Co., Minneapolis, Minn. Garden-seed. No. 145,425; Aug. 2; v. 289; p. 180.
- Northrup, King & Co., Minneapolis, Minn. Poultry and dairy feed. No. 146,314; Sept. 6; v. 290; p. 202.
- Northway Trallercar Company, East Rochester, N. Y. Trailer-cars. No. 140,916; Mar. 29; v. 284; p. 947.
- Northwest Evaporating Company, Cashmere, Wash. Evaporated apples. No. 141,626; Apr. 26; v. 285; p. 782.
- Northwestern Chemical Co., The, Marietta, Ohio. Compound for removing deposit from automobile-radiators. No. 139,828; Feb. 22; v. 283; p. 754.
- Northwestern Coat Company. (See Stein, John J., assignor.)
- Northwestern Distributing Co., Billings, Mont. Roasted coffee. Nos. 143,700-1; June 7; v. 287; p. 186.
- Northwestern Distributing Co., Billings, Mont. Bread. No. 149,189; Dec. 6.
- Northwestern Expanded Metal Company, Chicago, Ill. Beams, studding, and joists of metal. No. 141,625; Apr. 26; v. 285; p. 782.
- Northwestern Extract Co., Milwaukee, Wis. Maltless, non-cereal beverage. No. 145,515; Aug. 2; v. 289; p. 186.
- Northwestern Knitting Company, (now by change of name The Munsingwear Corporation), Minneapolis, Minn. Underwear and hosiery. No. 139,360; Feb. 1; v. 283; p. 170.
- Northwestern Oil Company, Fargo, N. D. Lubricating oils and greases. No. 142,073; May 3; v. 286; p. 189.
- Northwestern Soap Manufacturing Company, Lewiston, Mont. Soaps. No. 142,643; May 17; v. 286; p. 630.
- Norton Company, Worcester, Mass. Granular abrasive material. No. 140,917; Mar. 29; v. 284; p. 947.
- Norton Company, Worcester, Mass. Grinding-wheels and abrasive stones. No. 142,644; May 17; v. 286; p. 630.
- Norton Company, Worcester, Mass. Safety-tread tiles and terrazzo of bonded abrasive grains. Nos. 145,426-7; Aug. 2; v. 289; p. 180.
- Norton Company, Worcester, Mass. Abrasive products. No. 148,188; Nov. 8.
- Norton, John J., Laurel, Md. Medicinal preparation for use in influenza and la grippe. No. 144,447; July 5; v. 288; p. 194.
- Norton, Rogers & Hunter, Inc., Seattle, Wash. Hair-restorer, shampoo, and tonic. No. 145,765; Aug. 16; v. 289; p. 596.
- Norton, Walter F., assignor to The Crest Net Company, New York, N. Y. Hair-nets. No. 143,417; May 31; v. 286; p. 1051.
- Norton, Willis & Co., North Topeka, Kans. Wheat-flour. No. 142,310; May 10; v. 286; p. 405.
- No Ruma Medicine Co., Albuquerque, N. Mex. Medicinal preparation for the treatment of rheumatism, lumbago, &c. No. 148,695; Nov. 22.
- Norwalk Tire & Rubber Company, Norwalk, Conn. Rubber vehicle-tires. No. 147,241; Oct. 4.
- Norwich Knitting Company, Norwich, N. Y. Knitted underwear—viz., shirts, drawers, and union-suits. No. 147,877; Nov. 1.
- Notafaw Company, Providence, R. I. Webbing. No. 140,051; Mar. 1; v. 284; p. 177.
- Notaseme Hosiery Company, Philadelphia, Pa. Hosiery. No. 141,793; Apr. 26; v. 285; p. 791.
- Notaseme Hosiery Company, Philadelphia, Pa. Dolls. Nos. 150,028-9; Dec. 27.
- Nott, W. S., Company, Minneapolis, Minn. Leather belting. No. 141,627; Apr. 26; v. 285; p. 782.
- Nott, W. S., Company, Minneapolis, Minn. Rubber belting and hose. Nos. 146,047-8; Aug. 23; v. 289; p. 794.
- Noulet, Frank A., Covington, La. Building-blocks. No. 148,189; Nov. 8.
- Nouque Company, Chicago, Ill. Skin-lotions. No. 145,766; v. 289; p. 596.
- Nourse Oil Company, Rosedale, Kans., and Kansas City, Mo. Lubricating-oils. No. 138,843; Jan. 11; v. 282; p. 377.
- Novak, John, Company, Chicago, Ill. Pills for the treatment of constipation. No. 139,180; Jan. 25; v. 282; p. 735.
- Novak, John, Company, Chicago, Ill. Medicinal preparations. No. 140,662; Mar. 22; v. 284; p. 746.
- Novelty Products Company, The, Berkeley, Calif. Toy vehicles. No. 142,645; May 17; v. 286; p. 630.
- Novelty Products Company, The, Berkeley, Calif. Toy coaster. No. 150,030; Dec. 27.
- Novocel Chemical Mfg. Co., Inc., Brooklyn, N. Y. Local anesthetics. No. 146,826; Sept. 20; v. 290; p. 636.
- Nowak, Frank X., Brooklyn, N. Y. Hypodermic-injection syringes. No. 140,503; Mar. 15; v. 284; p. 535.
- Nowak Milling Corporation, Buffalo, N. Y., and Hammond, Ind. Horse feed. No. 144,616; July 12; v. 288; p. 425.
- Noxal Polish Manufacturing Company, Philadelphia, Pa. Polish for automobiles, pianos, victrolas, furniture, &c. No. 146,825; Sept. 20; v. 290; p. 636.
- Noxon Chemical Products Co., Newark, N. J. Metal-polish. No. 145,166; July 26; v. 288; p. 815.
- Nu Bone Corset Company, The, Corry, Pa. Corsets. No. 140,504; Mar. 15; v. 284; p. 585.
- Nucoa Butter Company, New York, N. Y. Ice-creams and frozen desserts. No. 145,987; Aug. 23; v. 289; p. 789.
- Nucoa Butter Company, The, New York, N. Y. Vegetable shortening. No. 146,827; Sept. 20; v. 290; p. 636.
- Nuccio, Frank J., New Orleans, La. Preparation for certain named purposes. No. 144,617; July 12; v. 284; p. 425.
- Nu-Fab Products Corporation, New York, N. Y. Sueded fabric gloves. No. 142,311; May 10; v. 286; p. 405.
- Nuforal Laboratories, Inc., New York, N. Y. Preparation for treatment of tuberculosis. Nos. 148,696-8; Nov. 22.
- Nugent, W. W., & Co., Chicago, Ill. Oil-filters. No. 142,646; May 17; v. 286; p. 630.
- Nu-Kuff Co., Russellville, Ark. Negligée and outing shirt cuffs. No. 148,496; Nov. 15.
- Nu-Lac Company, The, Fort Wayne, Ind. Transparent luster and finish for automobiles and furniture. No. 147,440; Oct. 11.
- Nulomoline Company, The, New York, N. Y. Syrups and molasses, glucose, honey, &c. No. 145,988; Aug. 23; v. 289; p. 789.
- Nulsen Corporation, Manufacturers, The, St. Louis, Mo. Barytes, sulfate of barium, &c. No. 141,628; Apr. 26; v. 285; p. 782.
- Nunnally Company, The, Atlanta, Ga. Candy. No. 139,689; Feb. 8; v. 283; p. 357.
- Nunzio Stallone Bros., New York, N. Y. Olive-oil. No. 142,628; May 17; v. 286; p. 629.
- Nuro Silver Co., Burkeville, Va. Cleansing preparation for silverware, cut glass, &c. No. 150,031; Dec. 27.
- Nu-Style Every Week Dress Co., Inc., New York, N. Y. Girls' dresses. No. 139,090; Jan. 18; v. 282; p. 560.
- Nut-Crystal Company, Houston, Tex. Fruit-cake. No. 140,505; Mar. 15; v. 284; p. 585.
- Nut Grove Butter Co., Providence, R. I. Oleomargarin. Nos. 146,315-16; Sept. 6; v. 290; p. 202.
- Nu Tint Co., Philadelphia, Pa. Dye. No. 139,690; Feb. 8; v. 283; p. 357.
- Nu-Way Printing & Engraving Shop, St. Louis, Mo. Engraved, embossed, and printed greeting-cards, pamphlets, &c. No. 142,074; May 3; v. 286; p. 189.
- Nu-Way Stretch Suspender Co., Adrian, Mich. Men's suspenders and hose-supporters. No. 149,190; Dec. 6.
- Nux-I-Kola Company, Detroit, Mich. General tonic. No. 148,699; Nov. 22.
- O. & W. Thum Company, The, Grand Rapids, Mich. Preparation for the destruction of ants, roaches, &c. No. 141,448; Apr. 19; v. 285; p. 569.
- Oak Chrome & Stone Chrome Leather Co., Masury, Ohio. Sole-leather. No. 148,190; Nov. 8.
- Oakley, Theophilus D., Chicago, Ill. Collection-envelops. No. 142,679; May 17; v. 286; p. 631.
- O'Bannon Corporation, Boston, Mass. Cotton piece goods with rubberized coating. No. 143,822; June 7; v. 287; p. 193.
- O'Bannon Corporation, New York, N. Y. Waterproof upholstery fabrics. No. 145,516; Aug. 2; v. 289; p. 186.
- Oberchain-Boyer Co., The, Logansport, Ind. Chemical fire-engines with certain equipment and hand fire-extinguishers. No. 147,507; Oct. 18.
- Oberbeck, Arthur W., Chicago, Ill. Scenery. No. 147,659; Oct. 25.
- Oberman, D. M., Manufacturing Company, Jefferson City and California, Mo. Woolen piece goods. No. 149,601; Dec. 13.
- Oberndorfer Co., The, Milwaukee, Wis. Boys' blouses. No. 147,383; Oct. 11.



*Alphabetical list of registrants of trade-marks—Continued.*

- O'Brien & Co., Dublin, Ireland. Mineral and aerated waters, natural and artificial, including ginger-beer. No. 142,075; May 3; v. 286; p. 189.
- O'Brien & Co., Dublin, Ireland. Wines. No. 142,076; May 3; v. 286; p. 189.
- O'Brien & Co., Dublin, Ireland. Wines. No. 144,618; July 12; v. 288; p. 425.
- O'Brien Varnish Company, South Bend, Ind. White enamel. No. 149,602; Dec. 13.
- O'Connell, Edward J., Pittsfield, Mass. Automobile-tire patch. No. 138,684; Jan. 4; v. 282; p. 188.
- O'Connell, Joseph P., Boston, Mass. Waterproofing compound for roofing and construction use. No. 146,592; Sept. 13; v. 290; p. 422.
- O'Connell-Simmons Co., Inc., New York, N. Y. Cotton piece goods. No. 144,018; June 21; v. 287; p. 581.
- O'Connor Candy Co., Darlington, Wis. Candy. No. 147,660; Oct. 25.
- O'Connor, John P., Parsons, Kans. Roasted coffee. No. 144,619; July 12; v. 288; p. 425.
- O'Dell, Stephen O., Detroit, Mich. Salves for boils, carbuncles, felons, &c. No. 144,255; June 28; v. 287; p. 776.
- Odelsa Mfg. Co., The, Oklahoma, Okla. Baking-powder and coloring for food. No. 140,185; Mar. 8; v. 284; p. 366.
- Odelsa Mfg. Co., Oklahoma, Okla. Candies. No. 142,617; May 17; v. 286; p. 629.
- Oden, Eugene R., San Francisco, Calif. Ready-mixed paint and liquid waterproof coatings of a paintlike nature. Nos. 150,032-3; Dec. 27.
- Odenwald & Son, New Orleans, La. Creole pralines, a confection of nut-kernels and sugar. No. 139,594; Feb. 8; v. 283; p. 352.
- Oehlschlaeger, Edward G., New York, N. Y. Hair-nets. No. 142,680; May 17; v. 286; p. 631.
- Oelbaum Bros. & Bauer, New York, N. Y. Boys' shirts and blouses. No. 148,909; Nov. 20.
- Oelrich & Berry Co., Chicago, Ill. Cane-molasses for stock-feeding purposes. No. 148,498; Nov. 15.
- Oestreicher, Barney, New York, N. Y. Knit caps and toques. No. 147,361; Oct. 11.
- Ogar, Walter J., Dorchester, Mass. Dyspepsia treatment in tablet or powdered form. No. 142,077; May 3; v. 286; p. 189.
- Ogden Baking Company, Ogden, Utah. Bread. No. 144,908; July 19; v. 288; p. 622.
- Ogden, John, Philadelphia, Pa. Sickles. No. 138,844; Jan. 11; v. 282; p. 377.
- Ogden Wholesale Drug Co., Ogden, Utah. Preparations used in the manufacture of ice-cream. No. 145,428; Aug. 2; v. 289; p. 180.
- Oglevee, Oscar G., Columbus, Ohio. Calendar. No. 139,860; Feb. 22; v. 283; p. 754.
- Ogus, Rabinovich & Ogus Co., Chicago, Ill., and New York, N. Y. Hats for women and children. No. 144,909; July 19; v. 288; p. 622.
- Ogus, Rabinovich & Ogus Co., Chicago, Ill. Women's and children's hats. No. 149,191; Dec. 6.
- Ohio Brass Company, The, Mansfield, Ohio. Ears, clamps, and hangers for suspending trolley-wires, &c. No. 141,138; June 21; v. 287; p. 589.
- Ohio Creamery Company, Youngstown, Ohio. Butter. No. 142,312; May 10; v. 286; p. 405.
- Ohio Dairy Co., The, Toledo, Ohio. Butter substitute. No. 142,681; May 17; v. 286; p. 631.
- Ohio Expert Auto Radiator Company, Cincinnati, Ohio. Automobile-radiators. No. 147,661; Oct. 25.
- Ohio Refining Company, Cincinnati, Ohio. Gasolene, naphtha, kerosene, &c. No. 144,884; July 19; v. 288; p. 621.
- Ohio Steel Foundry Company, The, Lima, Ohio. Metal castings. No. 150,034; Dec. 27.
- Ohio Suspender Company, The, Mansfield, Ohio. Suspenders, garters, armbands, and belts. No. 145,569; Aug. 9; v. 289; p. 408.
- Oil Well Supply Company, Pittsburgh, Pa. Oil-well machinery, tools, and accessories. No. 144,139; June 21; v. 287; p. 589.
- Oil Well Supply Company, Pittsburgh, Pa. Certain machinery and tools. No. 146,317; Sept. 6; v. 290; p. 202.
- Okay Extract Co., New York, N. Y. Castor-oil. No. 139,859; Feb. 22; v. 283; p. 754.
- Okay Extract Company, New York, N. Y. Fruit and vegetable extracts and flavors. No. 143,122; May 24; v. 286; p. 849.
- Oklahoma Janitor Supply Company, Tulsa, Okla. Sweep- ing compounds. No. 144,885; July 19; v. 288; p. 621.
- Okonite Company, The, Passaic, N. J. Insulated conductors and cables for electrical purposes. No. 147,802; Nov. 1.
- Old Baldy Citrus Association, Upland, Calif. Fresh citrus fruits. No. 138,685; Jan. 4; v. 282; p. 188.
- Old Colony Shoe Company, Brockton, Mass. Boots and shoes of leather and combinations of leather, fabric, and rubber. No. 147,362; Oct. 11.
- Old Dominion Paper Company, Norfolk, Va. Wrapping-paper. No. 140,918; Mar. 29; v. 284; p. 947.
- Oldfield Tire Company, The, Cleveland, Ohio. Tires and tire accessories, &c. No. 139,593; Feb. 8; v. 283; p. 352.
- Oldham, Harry D., Urbana, Ill. Liniments. No. 141,629; Apr. 26; v. 285; p. 782.
- Old Hickory Chair Company, The, Martinsville, Ind. Rustic chairs, stools, settees, lounges, &c. No. 147,363; Oct. 11.
- Old Town Canoe Company, Old Town, Me. Certain boats and parts thereof. No. 149,793; Dec. 20.
- O'Leary, Timothy J., Los Angeles, Calif. Doughnuts. No. 146,828; Sept. 20; v. 290; p. 636.
- Olfe, Otto H., Auburn, Me. Baking-powder. Nos. 140,186-8; Mar. 8; v. 284; p. 366.
- Oliver Machinery Co., Grand Rapids, Mich. Metal and wood working machines and tools. No. 138,916; Jan. 11; v. 282; p. 382.
- Oliver Oil-Gas Burner & Machine Company, St. Louis, Mo., and San Francisco, Calif. Cleansing material for the skin. No. 145,517; Aug. 2; v. 289; p. 186.
- Oliver Oil-Gas Burner & Machine Co., St. Louis, Mo. Oil and gas burners. No. 147,242; Oct. 4.
- Oliver Oil-Gas Burner & Machine Co., St. Louis, Mo. Oil and gas burners. No. 147,662; Oct. 25.
- Oliver Oil-Gas Burner & Machine Co., St. Louis, Mo., and San Francisco, Calif. Cleansing material for hands and skin. No. 147,663; Oct. 25.
- Oliver, V., Inc., Philadelphia, Pa. Traffic-signals for vehicles. No. 150,035; Dec. 27.
- Olsson, Martin, & Sons, London, England. Rafts of sawn or squared timber. No. 138,686; Jan. 4; v. 282; p. 189.
- Olts, James W., Oakland, Calif. Remedy for piles. No. 140,506; Mar. 15; v. 284; p. 585.
- Olts, James W., Oakland, Calif. Automobile and furniture polish. No. 150,036; Dec. 27.
- Omaha Alfalfa Milling Company, Omaha, Nebr. Horse feed. No. 147,731; Oct. 25.
- Omaha Alfalfa Milling Company, Omaha, Nebr. Horse feed. No. 147,878; Nov. 1.
- Omega Chemical Company, The, New York, N. Y. Dentifrices. No. 139,019; Jan. 18; v. 282; p. 555.
- Omo Manufacturing Co., Middleton, Conn. Elastic webbing, cord, and braid, dress-belt. No. 145,167; July 26; v. 288; p. 815.
- Oneida Motor Truck Co., Green Bay, Wis. Motor-vehicles. No. 142,682; May 17; v. 286; p. 631.
- O'Neil, Vincent A., San Francisco, Calif. Candies. No. 139,181; Jan. 25; v. 282; p. 735.
- O'Neill, Charles H., Woodbury, N. J. Collars. No. 145,168; July 26; v. 288; p. 815.
- O'Neill, F. J., Medicine Co., St. Louis, Mo. Medicinal preparation. No. 143,864; June 14; v. 287; p. 401.
- One Thousand One Madison Avenue French Pastry & Restaurant Co. Incorporated, New York, N. Y. Pastries, cakes, cookies. No. 146,829; Sept. 20; v. 290; p. 636.
- Onnen, Adolph C., Baltimore, Md. Toilet cream. No. 141,421; Apr. 19; v. 285; p. 568.
- O-Pee-Chee Gum Co., Limited, London, Ontario, Canada. Popcorn confection. No. 141,630; Apr. 26; v. 285; p. 782.
- O-Pee-Chee Gum Co., Limited, London, Ontario, Canada. Peppermint-flavored candy. No. 143,123; May 24; v. 286; p. 849.
- Opelika Overall Co., Opelika, Ala. Overalls. No. 139,361; Feb. 1; v. 283; p. 171.
- Openright Specialty Company, New York, N. Y. Tools for cutting the covers of sheet-metal cans and boxes. No. 149,466; Dec. 13.
- Opitz, Herman, St. Cloud, Minn. Buttons. No. 139,362; Feb. 1; v. 283; p. 171.
- Oppenheim, A. Morton, New York, N. Y. Clothing. No. 147,879; Nov. 1.
- Oppenheim, Oberndorf and Company, Inc., Baltimore, Md. Undershirts, union-suits, drawers, &c. Nos. 142,078-9; May 3; v. 286; p. 189.
- Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Men's athletic underwear made of textile fabric. No. 142,683; May 17; v. 286; p. 631.
- Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Sleeping-garments. Nos. 143,702-3; June 7; v. 287; p. 186.
- Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Collars. No. 149,192; Dec. 6.
- Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Union-suits. No. 149,324; Dec. 6.
- Oppenheimer, Joseph S., New York, N. Y. Bungalow-aprons, house-dresses, children-dresses, &c. Nos. 142,313-4; May 10; v. 286; p. 405.
- Orange Chemical Co., Orange, Tex. Medicine for treatment of indigestion. No. 149,193; Dec. 6.
- Orange County Milk Association, New York, N. Y. Milk, cream, condensed milk, buttermilk. No. 143,124; May 24; v. 286; p. 849.
- Orange Nectar Co., Brooklyn, N. Y. Non-cereal, maltless beverage. No. 146,657; Sept. 13; v. 290; p. 429.
- Orange Screen Co., South Orange, N. J. Window and door screens and screened-porch inclosures. No. 149,194; Dec. 6.
- Orange Surprise Syrup & Bottling Co., Morriston, N. J. Non-alcoholic, non-cereal, maltless beverages and syrups for making same. No. 150,037; Dec. 27.
- Orbis Products Trading Co., Inc., New York, N. Y. Gum-arabic, perfumery, essential oils, &c. No. 138,845; Jan. 11; v. 282; p. 377.
- Orbis Products-Trading Co., Inc., New York, N. Y. Powdered egg-albumen and powdered egg-yolk. No. 145,570; Aug. 9; v. 289; p. 408.
- Oregon Brass Works, Portland, Oreg. Bushings. No. 143,125; May 24; v. 286; p. 849.



*Alphabetical list of registrants of trade-marks—Continued.*

- Oregon Growers Cooperative Assn., Salem, Oreg. Maltless, non-alcoholic, non-cereal beverages. Nos. 150,038-9; Dec. 27.
- Oregon Nursery Company, Orenco, Oreg. Prune-trees. No. 147,664; Oct. 25.
- Orenstein Trunk Company, Newark, N. J. Trunks, No. 142,684; May 17; v. 286; p. 631.
- Orific Gasoline Production Company, Chicago, Ill. Petroleum products—namely, gasoline. No. 140,507; Mar. 15; v. 284; p. 585.
- Orium Company, St. Louis, Mo. Medical compound for relief of indigestion, constipation, &c. No. 150,040; Dec. 27.
- Orium Company, The, St. Louis, Mo. Certain medicinal preparation. No. 150,041; Dec. 27.
- Orlando Chemical Co., The, Orlando, Fla. Water-color paints. No. 147,144; Oct. 4.
- Orlando Citrus Growers Association, Orlando, Fla. Fresh citrus fruits—viz., oranges, grapefruit, and tangerines. No. 148,191; Nov. 8.
- Ormerod, John, & Sons Ltd., Castleton, England. Leather goods for use in loom and textile machinery. No. 140,919; Mar. 29; v. 284; p. 947.
- Ormiston, Harry O., London, England. Aluminium-solder. No. 144,019; June 21; v. 287; p. 581.
- Orrs Zinc White Limited, Widnes and London, England. Zinc-white. No. 145,896; Aug. 16; v. 289; p. 602.
- Ortlieb, John A., Reading, Pa. Chemical stain-remover. No. 145,767; Aug. 16; v. 289; p. 596.
- Orville Simpson Company, The, Cincinnati, Ohio. Mills for grinding grain, drugs, spices, &c. No. 139,363; Feb. 1; v. 283; p. 171.
- Osann, Frederick, Company, New York, N. Y. Sewing, fur-beating, and cloth-cutting machines and parts thereof and machine-needles. No. 149,771; Dec. 20.
- Osborn Manufacturing Company, The, Cleveland, Ohio. Molders' bellows and shovels. No. 149,195; Dec. 6.
- Osborn Paper Company, Marion, Ind. Writing and printing papers and writing tablets. No. 139,091; Jan. 18; v. 282; p. 560.
- Osborn Paper Company, Marion, Ind. Writing-papers. No. 140,540; Mar. 15; v. 284; p. 586.
- Osborne, S. E., Greenwood, Miss. Insecticide, germicide, and antiseptic. No. 148,192; Nov. 8.
- Osgood Chemical Co. Inc., Salem, Mass. Medicinal preparations. No. 140,190; Mar. 8; v. 284; p. 366.
- O'Shea, Daniel J., Le Roy, N. Y. Cereal substitute for coffee and coffee and this substitute blended together. No. 148,499; Nov. 15.
- Oshimo, Fred M., Portland, Oreg. Deodorant salve. No. 141,631; Apr. 26; v. 285; p. 782.
- Oshkosh Motor Truck Mfg. Co., Oshkosh, Wis. Motor-vehicles, automobiles, and motor-trucks. No. 140,189; Mar. 8; v. 284; p. 366.
- Osius Karp & Gustav Veiner-Cassel, New York, N. Y. Fertilizers. No. 148,193; Nov. 8.
- Oskamp Jewelry Company, The, Cincinnati, Ohio. Polish for silver and gold. No. 139,691; Feb. 8; v. 283; p. 358.
- Osmers, Frank C., New York, N. Y. Imitation or artificial pearls. No. 146,318; Sept. 6; v. 290; p. 202.
- O'Sullivan Rubbery Company, Inc., New York, N. Y. Rubber soles and heels. No. 144,140; June 21; v. 287; p. 589.
- Oswego Milling Company, Inc., Oswego, N. Y. Stock food. Nos. 138,687-8; Jan. 4; v. 282; p. 189.
- Oswego River Paper Mills, Phoenix, N. Y. Toilet-paper. No. 139,861; Feb. 22; v. 283; p. 754.
- Otis Elevator Company, Jersey City, N. J., and New York, N. Y. Elevators, escalators, hoists, &c. No. 140,308; Mar. 8; v. 284; p. 374.
- Ott, B. F., Payson, Utah. Medicine for treatment of eczema, and all diseases of skin and scalp. No. 148,700; Nov. 22.
- Ottens, Henry H., Mfg. Co., Inc., Philadelphia, Pa. Powders for confectioner's use, pie-fillings, &c. No. 148,500; Nov. 15.
- Ottenstein, H. & I., New York, N. Y. Ladies' coats, suits, and skirts. No. 144,021; June 21; v. 287; p. 581.
- Ott-Helskell Hardware Co., Wheeling, W. Va. Trade journal or paper. No. 147,364; Oct. 11.
- Otto, Robert, Berlin, Germany. Cloth garment and trousers hangers, garment stretchers, and supports, &c. No. 144,020; June 21; v. 287; p. 581.
- Outing Shoe Company, Boston, Mass. Cloth shoes and slippers. No. 149,196; Dec. 6.
- Overland Mfg. Co., Boston, Mass. Overalls, unionalls, &c. No. 141,190; Apr. 12; v. 285; p. 383.
- Oversea Export Co. Ltd., The, Christiania, Norway. Bristling and sild. Nos. 141,191-2; Apr. 12; v. 285; p. 383.
- Oversea Export Co., Ltd., The, Christiania, Norway. Bristling and sild. (frequently known generically as sardines.) No. 142,685; May 17; v. 286; p. 631.
- Overseas Motor Service Corporation, New York, N. Y. Certain bearings and pumps and air-compressors, grease-guns, &c. No. 145,769; Aug. 16; v. 289; p. 596.
- Overseas Motor Service Corporation, New York, N. Y. Certain electrical apparatus. No. 148,194; Nov. 8.
- Overton, Anthony, Chicago, Ill. Certain toilet preparations. No. 147,145; Oct. 4.
- Overton, James H., Quincy, Ill. Waterproof coating for textile fabrics and leather. No. 145,768; Aug. 16; v. 289; p. 596.
- Owen Tire and Rubber Company, The, Cleveland, Ohio. Tires and inner tubes. No. 139,364; Feb. 1; v. 283; p. 171.
- Owens Bottle Company, The, Toledo, Ohio. Glass bottles, jars, and jugs. No. 142,220; May 3; v. 286; p. 196.
- Owl Auto Products Company, Inc., New York, N. Y. Automobile accessories. No. 148,195; Nov. 8.
- Owl Drug Company, The, San Francisco, Calif. Straw-hat dye. No. 142,080; May 3; v. 286; p. 189.
- Owl Drug Company, The, San Francisco, Calif. Medicinal ointments. No. 143,865; June 14; v. 287; p. 401.
- Owl Drug Company, The, San Francisco, Calif. Medicinal and pharmaceutical preparation. No. 146,830; Sept. 20; v. 290; p. 636.
- Oxford Correspondence College, Ltd. (See Tipper, Harry, assignor.)
- Oxweld Acetylene Company, Newark, N. J. Oxyacetylene-welding pressure-gages, spectacles, and goggles. No. 139,365; Feb. 1; v. 283; p. 171.
- Oxweld Acetylene Company, Newark, N. J. Fluxes. No. 139,595; Feb. 8; v. 283; p. 352.
- Oxweld Acetylene Company, Newark, N. J. Rubber hose. No. 140,508; Mar. 15; v. 284; p. 585.
- Oxweld Acetylene Company, Newark, N. J. Fabric and asbestos gloves. No. 140,663; Mar. 22; v. 284; p. 746.
- Ozark Cider & Vinegar Company, The, Rogers, Ark. Cider vinegar. No. 142,889; May 17; v. 286; p. 640.
- P-R Engine Company, The, Baltimore, Md., and New York, N. Y. Oil-engines. No. 144,142; June 21; v. 287; p. 589.
- "P A C" Laboratories, Sioux City, Iowa. Medicinal preparation. No. 145,989; Aug. 23; v. 289; p. 789.
- P-A-T-S Manufacturing Company, Lodi, Calif. Mechanically-actuated automobile direction-signals. No. 148,203; Nov. 8.
- Pabst & Company, Inc., Philadelphia, Pa. Piece goods of window-shade cloths of sized and painted fabric. No. 142,686; May 17; v. 286; p. 631.
- Pabst & Company, Inc., Philadelphia, Pa. Piece goods of window-shade cloths. No. 143,127; May 24; v. 286; p. 850.
- Pabst, Josef, Zurich, Switzerland. Necktie-holders, suspenders, and garters. No. 138,689; Jan. 4; v. 282; p. 189.
- Pacific Aluminum Company, Fresno, Calif. Certain aluminum cooking utensils. No. 148,910; Nov. 29.
- Pacific Chemical Company, Los Angeles, Calif. Chemical drain opener and cleaner. No. 145,003; July 19; v. 288; p. 627.
- Pacific Coast Barber Supply Co., Seattle, Wash. Massage-cream, hair-tonic, &c. No. 140,920; Mar. 29; v. 284; p. 947.
- Pacific Coast Barber Supply Company, Seattle, Wash. Combined electric hair-cutter and vibrator. No. 144,620; July 12; v. 288; p. 425.
- Pacific Coast Glass Works, San Francisco, Calif. Glass jars and bottles. No. 143,418; May 31; v. 286; p. 1051.
- Pacific Coast Rubber & Supply Co., San Francisco, Calif. Composition sheet-packing. No. 148,501; Nov. 15.
- Pacific Coast Syrup Co., San Francisco, Calif. Cane and maple syrup. No. 143,704; June 7; v. 287; p. 186.
- Pacific Drug Review, Portland, Oreg. Printed magazines issued monthly. No. 148,502; Nov. 15.
- Pacific Guano & Fertilizer Company, The, Honolulu, Hawaii. Fertilizers. No. 144,887; July 19; v. 288; p. 621.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. Nos. 142,383-4; May 10; v. 286; pp. 409-10.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. Nos. 143,823-31; June 7; v. 287; pp. 193-4.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. Nos. 144,889-90; July 19; v. 288; p. 621.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. Nos. 144,910-12; July 19; v. 288; p. 622.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 145,169; July 26; v. 288; p. 815.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 145,770; Aug. 16; v. 289; p. 596.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. Nos. 146,126-7; Aug. 30; v. 289; p. 1015.
- Pacific Mills, Lawrence and Boston, Mass. Cotton serge in the piece. No. 148,911; Nov. 29.
- Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 149,467; Dec. 13.
- Pacific Novelty Company, New York, N. Y. Hairpins. No. 148,196; Nov. 8.
- Pacific Rice Growers Association, Sacramento, Calif. Rice. No. 144,888; July 19; v. 288; p. 621.
- Package Confectionery Company, Boston, Mass. Candy. No. 139,182; Jan. 25; v. 282; p. 735.
- Package Confectionery Company, Boston, Mass. Candy. No. 140,509; Mar. 15; v. 284; p. 585.
- Package Confectionery Company, Boston, Mass. Candy. No. 141,193; Apr. 12; v. 285; p. 383.
- Package Confectionery Company, Boston, Mass. Candy. No. 146,932; Sept. 20; v. 290; p. 642.



- Package Confectionery Company, Boston, Mass. Wheat cereal, sugar-coated. No. 146,831; Sept. 20; v. 290; p. 636.
- Packard Engineering Company, The, Cleveland, Ohio, assignor to George W. Smith & Company, Inc., Philadelphia, Pa. Vehicle-wheels. No. 143,705; June 7; v. 287; p. 186.
- Packard Motor Car Company, Detroit, Mich. Automobiles. No. 147,803; Nov. 1.
- Packard Piano Company, The, Fort Wayne, Ind. Upright, grand, player, and reproducing pianos. No. 148,503; Nov. 15.
- Pacz, Aladar, Cleveland Heights, Ohio. Aluminum alloys, castings, and structures. No. 145,170; July 26; v. 288; p. 815.
- Page Belting Company, Concord, N. H. Leather belting. No. 139,741; Feb. 15; v. 283; p. 544.
- Page Belting Company, Concord, N. H. Leather belting. No. 139,948; Feb. 22; v. 283; p. 760.
- Page Belting Company, Concord, N. H. Rawhide lace-leather. No. 141,632; Apr. 26; v. 285; p. 782.
- Page Belting Company, Concord, N. H. Leather belting. Nos. 142,687-90; May 17; v. 286; p. 631.
- Page Belting Company, Concord, N. H. Rawhide lace-leather. No. 142,691; May 17; v. 286; p. 631.
- Page Belting Company, Concord, N. H. Leather belting. No. 142,692; May 17; v. 286; p. 631.
- Page Belting Company, Concord, N. H. Rawhide lace-leather. No. 142,693; May 17; v. 286; p. 631.
- Page Belting Company, Concord, N. H. Leather belting. No. 142,694; May 17; v. 286; p. 631.
- Page Belting Company, Concord, N. H. Rawhide lace-leather. No. 142,695; May 17; v. 286; p. 631.
- Page Belting Company, Concord, N. H. Leather fillet. No. 143,706; June 7; v. 287; p. 186.
- Page & Hill Co., Minneapolis, Minn. Liquid containing cresote, &c., used as a wood-preserved. No. 138,848; Jan. 11; v. 282; p. 377.
- Page & Shaw, Inc., Cambridge, Mass. Butter-scotch. No. 145,429; Aug. 2; v. 289; p. 181.
- Page & Shaw, Inc., Cambridge, Mass. Chocolate, cocoa-powder, and cocoa-butter. No. 145,430; Aug. 2; v. 289; p. 181.
- Page & Shaw, Inc., Cambridge, Mass. Chocolate, cocoa powder, and cocoa-butter. No. 146,320; Sept. 6; v. 290; p. 202.
- Page & Shaw, Inc., Cambridge, Mass. Chocolate cocoa-powder, and cocoa-butter. No. 148,197; Nov. 8.
- Paget Manufacturing Company Limited, The, Sydney, New South Wales, Australia. Cleansing composition and soap. No. 145,771; Aug. 16; v. 289; p. 596.
- Pagnotta, Joseph, Latrobe, Pa. Antiseptic powder for relieving burns. No. 146,658; Sept. 13; v. 290; p. 429.
- Paine Company, The, Chicago, Ill. Expansion-shells, toggle-bolts, &c. No. 145,282; July 26; v. 288; p. 824.
- Pakos, Joseph, Muscatine, Iowa. Preparation for coughs, colds, bronchitis, pneumonia, &c. No. 144,022; June 21; v. 287; p. 581.
- Paladino, John, Philadelphia, Pa. Medicinal preparations. No. 146,832; Sept. 20; v. 290; p. 636.
- Palatine Aniline & Chemical Corporation, Poughkeepsie, N. Y. Dyes. No. 140,921; Mar. 29; v. 284; p. 947.
- Pallarés, Hermanos, Cabra, Spain. Olive-oil. No. 144,795; July 19; v. 288; p. 618.
- Palleyesch, B. L., Brooklyn, N. Y. Certain medicinal preparation. No. 150,042; Dec. 27.
- Palmer Candy Co., Sioux City, Iowa. Assorted hard candy, chocolates, and candy bars. No. 148,198; Nov. 8.
- Palmer Candy Company, Sioux City, Iowa. Milk-chocolate candy. No. 142,315; May 10; v. 286; p. 405.
- Palmer, Carl, Grand Rapids, Mich. Tires, tubes, inner linings, &c. No. 141,194; Apr. 12; v. 285; p. 383.
- Palmer, Harvey & Co. Inc., Baltimore, Md. Canned vegetables, unshelled nuts, dried fruits. No. 139,596; Feb. 8; v. 283; p. 352.
- Palmer, Harvey & Co. Inc., Baltimore, Md. Food products. No. 140,922; Mar. 29; v. 284; p. 947.
- Palmer, I. E., Co., The, Middletown, Conn. Couch-hammocks. Nos. 147,365-6; Oct. 11.
- Palmer, I. E., Co., The, Middletown, Conn. Hammocks. No. 148,199; Nov. 8.
- Palmer, J. Frederick Mfg. Co., Milwaukee, Wis. Toilet-paper fixtures. No. 142,869; May 17; v. 286; p. 638.
- Palmer, Leo, New York, N. Y. Talking-machines. No. 141,422; Apr. 19; v. 285; p. 568.
- Palmer, Oscar E., Cleveland, Ohio. Ointment for eruptions of skin. No. 150,043; Dec. 27.
- Palmer's Limited, Montreal, Quebec, Canada. Perfumes, toilet waters, talcum powders, &c. No. 143,419; May 31; v. 286; p. 1051.
- Palmine Company Inc., Dobbs Ferry and New York, N. Y. Oleomargarin. No. 140,510; Mar. 15; v. 284; p. 585.
- Palmolive Co. of Canada, Ltd., The, Toronto, Ontario, Canada. Soap. No. 148,200; Nov. 8.
- Palmolive Company, The, Milwaukee, Wis. Soap. No. 139,020; Jan. 18; v. 282; p. 555.
- Palmolive Company, The, Milwaukee, Wis. Soap. No. 139,597; Feb. 8; v. 283; p. 352.
- Palmolive Company, The, Milwaukee, Wis. Soap. No. 140,511; Mar. 15; v. 284; p. 585.
- Palmolive Company, The, Milwaukee, Wis. Soap. No. 140,923; Mar. 29; v. 284; p. 947.
- Palmuth, Eugene, San Francisco, Calif. Sun and rain shields for automobiles. No. 147,804; Nov. 1.
- Pan America Supply Company Inc., New York, N. Y. Green malt, hops, and pitch. No. 141,195; Apr. 12; v. 285; p. 383.
- Pan American Chemical Company, Altoona, Pa. Medicine for stomach and intestinal disorders. No. 143,129; May 24; v. 286; p. 850.
- Pan-American Cigar Manufacturing Co., Dover, Del., and Washington, D. C. Cigars. No. 146,321; Sept. 6; v. 290; p. 202.
- Pan-American Pharmaceutical Co., New York, N. Y. Reducing remedy. No. 140,014; Mar. 1; v. 284; p. 174.
- Pan-American Pharmaceutical Co. Ltd., Santa Rita, N. Mex. Medicinal plaster for the treatment of headaches and neuralgia. No. 143,128; May 24; v. 286; p. 850.
- Pan American Smelting Works, Inc., New York, N. Y. White-metal alloys. No. 138,847; Jan. 11; v. 282; p. 377.
- Pandolfo, Samuel C., St. Cloud, Minn. Automobiles. No. 143,420; May 31; v. 286; p. 1051.
- Pangborn Corporation, Hagerstown, Md. Sand-blast and allied equipment and foundry equipment and supplies. No. 141,633; Apr. 26; v. 285; p. 782.
- Pangborn Corporation, Hagerstown, Md. Machinery and tools. No. 143,421; May 31; v. 286; p. 1051.
- Pannier Bros. Stamp Co., Pittsburgh, Pa. Marking-dies. No. 143,707; June 7; v. 287; p. 186.
- Pansy Waist Co., New York, N. Y. Dresses and costumes. No. 148,504; Nov. 15.
- Pantasote Leather Company, The, Passaic, N. J. Dressing for automobile-tops. No. 140,924; Mar. 29; v. 284; p. 947.
- Papason, Peter N., Chicago, Ill. Fresh apples, potatoes, and milk, dressed chickens. No. 149,468; Dec. 13.
- Papendick Bakery Company, St. Louis, Mo. Bread. No. 138,690; Jan. 4; v. 282; p. 189.
- Papendick Bakery Co., St. Louis, Mo. Bread. No. 142,890; May 17; v. 286; p. 640.
- Paper Manufacturing Co. Inc., Philadelphia, Pa. Paper for wiping ink from the faces of dies. No. 145,284; July 26; v. 288; p. 824.
- Paper Manufacturers Co. Inc., Philadelphia, Pa. Paper for wiping ink from the face of dies. No. 147,508; Oct. 18.
- Papiewski, W., Medical Tea Company, Chicago, Ill. Tea. No. 144,257; June 28; v. 287; p. 776.
- Para, John, Elizabeth, N. J. Talking-machines, record-disks, sound-boxes, and needles for same. No. 140,925; Mar. 29; v. 284; p. 947.
- Paraffine Companies, Inc., The, San Francisco, Calif. Floor-covering. No. 144,023; June 21; v. 287; p. 581.
- Paragon Binder Corporation, New York, N. Y., and Newark, N. J. Binders for loose sheets of paper, &c. No. 146,123; Aug. 30; v. 289; p. 1015.
- Pardue, Daniel G., Nashville, Tenn. Laxative tonic. No. 144,621; July 12; v. 288; p. 425.
- Parfumerie Houbigant, Paris, France. Toilet soaps. No. 139,598; Feb. 8; v. 283; p. 352.
- Parfumerie Houbigant, Paris, France. Perfumes, toilet waters, face-powders, &c. Nos. 141,388-93; Apr. 19; v. 285; p. 567.
- Parfumerie Houbigant, Paris, France, assignors to Houbigant, Inc., New York, N. Y. Perfumes, toilet waters, sachet, and sachet-powders. Nos. 146,128; Aug. 30; v. 289; p. 1015.
- Parfumerie Houbigant, Paris, France, assignor to Houbigant, Inc., New York, N. Y. Perfumes, toilet waters, face-powders, &c. Nos. 146,322-3; Sept. 6; v. 290; p. 202.
- Parfumerie Houbigant, Paris, France, assignors to Houbigant, Inc., New York, N. Y. Perfumes, toilet waters, face-powders, &c. No. 146,772; Sept. 20; v. 290; p. 634.
- Parfumerie Houbigant, Paris, France, assignors to Houbigant, Inc., New York, N. Y. Face and toilet powder. No. 148,668; Nov. 22.
- Parfumerie Lournay, Inc., New York, N. Y. Soap. Nos. 142,696-9; May 17; v. 286; pp. 631-2.
- Parfumerie Lournay, Inc., New York, N. Y. Soap. No. 143,709; June 7; v. 287; p. 186.
- Parfumerie Lournay, Inc., New York, N. Y. Toilet preparation—namely, face-powder. No. 145,990; Aug. 23; v. 289; p. 789.
- Parfumerie Lournay, Inc., New York, N. Y. Toilet preparations—viz., face-powder. Nos. 146,129-32; Aug. 30; v. 289; p. 1015.
- Paris, Sidney, New York, N. Y. Pleasure-automobiles. No. 145,171; July 26; v. 288; p. 815.
- Paris Toilet Company, The, Paris, France. Toilet preparations—namely, face-powder, rouge, talcum powder, &c. No. 143,130; May 24; v. 286; p. 850.
- Parish & Bingham Corporation, New York, N. Y., and Cleveland, Ohio. Pressed-steel frames for automobiles. No. 145,772; Aug. 16; v. 289; p. 596.
- Parisian Cloak Co., Kansas City, Mo. Corsets. No. 142,740; May 17; v. 286; p. 633.
- Parke, Davis & Company, Detroit, Mich. Preparations containing the active principle of suprarenal gland. No. 140,512; Mar. 15; v. 284; p. 585.
- Parke, Davis & Company, Detroit, Mich. Vitamin products. No. 146,833; Sept. 20; v. 290; p. 636.
- Parke, Davis & Company, Detroit, Mich. Buttermilk tablets for medicinal use. No. 148,596; Nov. 15.
- Parker, C. C., Mercedes, Tex. Screw-worm preventive. No. 144,622; July 12; v. 288; p. 425.



*Alphabetical list of registrants of trade-marks—Continued.*

- Parker, George H., Stamford, Conn. Game-boards and pieces therefor. No. 142,700; May 17; v. 286; p. 632.
- Parker, J. H., Son, Incorporated, Parkersburg, W. Va. Porcelain insulators. No. 147,509; Oct. 18.
- Parker, Joseph, & Son Company, New Haven, Conn. Blotting-paper. No. 145,172; July 26; v. 288; p. 815.
- Parker-Kiskadden Company, Detroit, Mich. Transmission and like greases. No. 149,469; Dec. 13.
- Parker Tire & Rubber Company, The, Indianapolis, Ind. Pneumatic rubber tires. No. 146,594; Sept. 13; v. 290; p. 422.
- Parker & Waterman Manufacturing Co., Los Angeles, Calif. Flexible fabric tire-covers. No. 145,431; Aug. 2; v. 289; p. 181.
- Parris, James A., Paterson, N. J. Furniture-polish. No. 139,183; Jan. 25; v. 282; p. 735.
- Parris, James A., Paterson, N. J. Furniture-polish. No. 139,599; Feb. 8; v. 283; p. 353.
- Parrotte, McIntyre & Co., Chicago, Ill. Men's hats. No. 142,701; May 17; v. 286; p. 632.
- Parsons, Irving R., Chicago, Ill. Nail-polish in powder form. No. 146,834; Sept. 20; v. 290; p. 636.
- Parsons, J. H., Chemical Company, The, Chicago, Ill. Household and general cleaning compound in powder form. No. 145,432; Aug. 2; v. 289; p. 181.
- Partridge and Anderson Company, Chicago, Ill. Electrotypes, stereotypes, and matrices. No. 142,081; May 3; v. 286; p. 189.
- Paschall, Benjamin S., New York, N. Y. Therapeutic preparation for treatment of tuberculosis. No. 145,773; Aug. 16; v. 289; p. 596.
- Pascules Laboratories, Sioux City, Iowa. Non-narcotic capsules for use in after-extraction pains, especially after using novocain, procain, &c. No. 146,319; Sept. 6; v. 290; p. 202.
- Passano, Robert G., New York, N. Y. Gummed tape. No. 148,912; Nov. 29.
- Patch, E. L., Co., The, Stoneham, Mass. Root-beer extract. No. 138,691; Jan. 4; v. 282; p. 189.
- Patch, E. L., Co., The, Stoneham, Mass. Shampoo. No. 142,082; May 3; v. 286; p. 189.
- Patek Brothers, Milwaukee, Wis. Dry, paste, and ready-mixed paints, calcimines, &c. No. 139,366; Feb. 1; v. 283; p. 171.
- Patek Brothers, Milwaukee, Wis. Ready-mixed paints. No. 145,897; Aug. 16; v. 289; p. 603.
- Patek Brothers, Milwaukee, Wis. Ready-mixed enamel, paste, and concrete paints, lacquers, &c. No. 145,898; Aug. 16; v. 289; p. 603.
- Patek Brothers, Milwaukee, Wis. Paints. No. 146,547; Sept. 6; v. 290; p. 220.
- Patek Brothers, Milwaukee, Wis. Paints, colors, and polishes. No. 148,505; Nov. 15.
- Patek Brothers, Milwaukee, Wis. Paint enamels. No. 150,044; Dec. 27.
- Patented Specialties Corporation, Chicago, Ill. Spinning-tops. No. 139,600; Feb. 8; v. 283; p. 353.
- Paterson Brewing & Malting Company, Paterson, N. J. Malt beverage. Nos. 141,634-5; Apr. 26; v. 286; p. 782.
- Paterson, John, & Co., Ltd., Glasgow, Scotland. Liquid compound for toilet use. No. 150,045; Dec. 27.
- Paterson, John, & Co., Ltd., Glasgow, Scotland. Liquid insecticides. No. 150,046; Dec. 27.
- Patrick, Bennett J., Minneapolis, Minn. Tractors. No. 148,202; Nov. 8.
- Patrick & Co., Duluth, Minn. Articles of clothing. No. 142,385; May 10; v. 286; p. 410.
- Patrick, F. A., & Co., Duluth, Minn. Hose. No. 138,853; Jan. 11; v. 282; p. 377.
- Patrick, F. A., & Co., Duluth, Minn. Clothes-pressing appliances. No. 139,184; Jan. 25; v. 282; p. 735.
- Patrick, F. A., & Co., Duluth, Minn. Cretannes and silk-lines, both in the piece. No. 139,367; Feb. 1; v. 283; p. 171.
- Patrick, F. A., & Co., Duluth, Minn. Embroidery cotton, sewing silks, &c. No. 141,794; Apr. 26; v. 286; p. 791.
- Patrick, F. A., & Co., Duluth, Minn. Hosiery. No. 142,083; May 3; v. 286; p. 189.
- Patrick, F. A., & Co., Duluth, Minn. Textile fabrics and piece goods of wool, cotton, linen, and silk. No. 142,221; May 3; v. 286; p. 196.
- Patrick, F. A., & Co., Duluth, Minn. Bureau and table scarfs, fabric blankets, mats, &c. No. 142,891; May 17; v. 286; p. 641.
- Patrick, F. A., & Co., Duluth, Minn. Clothing. No. 143,522; May 31; v. 286; p. 1055.
- Patrick, F. A., & Co., Duluth, Minn. Certain named notions. No. 145,283; July 26; v. 288; p. 824.
- Patrick, F. A., & Co., Duluth, Minn. Bureau and table scarfs, blankets, mats, &c. No. 145,433; Aug. 2; v. 289; p. 181.
- Patrick, F. A., & Co., Duluth, Minn. Certain articles of clothing. No. 148,913; Nov. 29.
- Patrick-Young Co., F. E., Richmond, Va. Hams, bacon, and lard. No. 139,862; Feb. 22; v. 283; p. 754.
- Patrick-Young Co., F. E., Richmond, Va. Hams, bacon, and lard. No. 143,708; June 7; v. 287; p. 186.
- Patrick-Young Co., F. E., Richmond, Va. Hams, bacon, lard. No. 150,047; Dec. 27.
- Patten Manufacturing Company, Chattanooga, Tenn. Rubber patches, tires, and tubes. No. 148,338; Nov. 8.
- Patterson Candy Co. Limited, The, Toronto, Ontario, Canada. Chocolates and candy. No. 145,434; Aug. 2; v. 289; p. 181.
- Patterson, Gottfried and Hunter Inc., New York, N. Y. Vent-patching material. No. 141,196; Apr. 12; v. 285; p. 383.
- Paulson, Henry, Chicago, Ill. Watch-mainspring and watch-glasses. No. 145,173; July 26; v. 288; p. 815.
- Patterson, John, Junr., Aldershot, England. Braces for wear, sock and stocking suspenders, garters, hosiery. No. 147,665; Oct. 25.
- Patterson, Joseph C., Dayton, Ohio. Aspirin tablets. No. 148,204; Nov. 8.
- Patterson Lock Nut Mfg. Co., Chicago, Ill. Lock-nuts. No. 149,470; Dec. 13.
- Patterson, Mary A., Amherst, Mass. Bodkins and tape-needles. No. 138,692; Jan. 4; v. 282; p. 189.
- Patterson-Sargent Company, Cleveland, Ohio. Carbon-remover. No. 141,197; Apr. 12; v. 285; p. 383.
- Patterson-Sargent Company, The, Cleveland, Ohio. Paints and painters' materials. No. 142,702; May 17; v. 286; p. 632.
- Patterson-Sargent Company, The, Cleveland, Ohio. Chemical carbon-removers. No. 146,324; Sept. 6; v. 290; p. 202.
- Pattison, William L., Kansas City, Mo. Gratings. No. 146,595; Sept. 13; v. 290; p. 422.
- Patton Paint Company, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company. Liquid metal-polish. No. 141,636; Apr. 26; v. 285; p. 782.
- Paulson, Henry, Chicago, Ill. Talking-machines. No. 146,325; Sept. 6; v. 290; p. 202.
- Paulson, Henry, Chicago, Ill. Reconstructed rubies and sapphires, ring mountings. No. 148,205; Nov. 8.
- Paulson, Henry, Chicago, Ill. Watch and clock oils. No. 148,206; Nov. 8.
- Paulson, Henry, Chicago, Ill. Spectacle and eyeglass frames. No. 148,722; Nov. 22.
- Paulson, Henry, Chicago, Ill. Files, gravers, tweezers, &c. No. 149,471; Dec. 13.
- Paulson, Henry, Chicago, Ill. Polishing-buffs. No. 149,472; Dec. 13.
- Paulson, Thomas, & Son, Inc., Brooklyn, N. Y. Bronze castings. No. 147,510; Oct. 18.
- Pauly, Julius, Incorporated, New York, N. Y. Shampoos. No. 141,637; Apr. 26; v. 285; p. 782.
- Pauwela Pineapple Company, San Francisco, Calif. Canned fruits. Nos. 138,693-5; Jan. 4; v. 282; p. 189.
- Pauwela Pineapple Company, San Francisco, Calif. Canned fruits. No. 139,601; Feb. 8; v. 283; p. 353.
- Pauwela Pineapple Company, San Francisco, Calif. Canned fruits. Nos. 140,513-4; Mar. 15; v. 284; p. 585.
- Payne, A. S., Inc., North Bennington, Vt. Doll furniture. No. 146,326; Sept. 6; v. 290; p. 202.
- Peacock Productions, Inc., Tulsa, Okla. Moving-picture films. No. 143,131; May 24; v. 286; p. 850.
- Peanut Products Corporation, Tacoma, Wash. Peanut-butter. No. 142,703; May 7; v. 286; p. 632.
- Pearl City Fruit Company, Limited, Honolulu, Hawaii. Non-intoxicating, maltless, non-cereal beverage. No. 150,048; Dec. 27.
- Pearl Coffee Company, The, Akron, Ohio. Coffee. No. 148,207; Nov. 8.
- Pearl Cotton Mills, Durham, N. C. Cotton goods in the piece. No. 143,259; May 24; v. 286; p. 858.
- Pearsall, B. S., Butter Co., Elgin, Ill. Butter, margarin, and oleomargarin. No. 146,548; Sept. 6; v. 290; p. 220.
- Pearsall, B. S., Butter Co., Elgin, Ill. Margarin. No. 147,880; Nov. 1.
- Pearson, A. A., Greensboro, Ga. Certain medicinal preparations. No. 147,017; Sept. 27; v. 290; p. 805.
- Pearson Brothers, London, England. Waterproof coats. No. 147,666; Oct. 25.
- Pearson, L. G., Corp., Niagara Falls, N. Y. Polishing-cloths for gold, silver, and all precious metals. No. 149,197; Dec. 6.
- Pearson-Wiggins Co., Chicago, Ill. Device for measuring and controlling the flow of gasoline. No. 141,198; Apr. 12; v. 285; p. 383.
- Pease & Dwyer Co., Memphis, Tenn. Sweet feed composed of oats, alfalfa-meal, and molasses. Nos. 144,891-2; July 19; v. 288; p. 621.
- Pease & Dwyer, Memphis, Tenn. Dairy feed. No. 145,435; Aug. 2; v. 289; p. 181.
- Pease & Dwyer Co., Memphis, Tenn. Food for poultry, chickens, horses, and mules. No. 146,327; Sept. 6; v. 290; p. 202.
- Pease & Dwyer Co., Memphis, Tenn. Feed for horses, mules, hogs, and hens. No. 146,328; Sept. 6; v. 290; p. 202.
- Pease & Dwyer Co., Memphis, Tenn. Grain feed composed of corn, oats, alfalfa-meal, and molasses. No. 146,329; Sept. 6; v. 290; p. 202.
- Peca, Geo., Chicago, Ill. Liniment for the treatment of rheumatism. No. 146,124; Aug. 30; v. 289; p. 1015.
- Peck & Co., New York, N. Y. Ladies' outer garments—viz., coats, suits, dresses, &c. No. 142,084; May 3; v. 286; p. 189.



- Pedigo-Weber Shoe Co., St. Louis, Mo. Shoes. No. 144,258; June 28; v. 287; p. 776.
- Pe-Do-Lo Chemical Company, Wilson, N. C. Foot-lotion. No. 148,701; Nov. 22.
- Peerless Blowout Shoe Company, Dallas, Tex. Blow-out shoes for tires made of rubber and fabric, leather, or similar materials. No. 139,466; Feb. 1; v. 283; p. 176.
- Peerless Bread Machine Company, Sidney, Ohio. Certain machinery for bakeries. No. 141,795; Apr. 26; v. 285; p. 792.
- Peerless Food Manufacturing Co., Pittsburgh, Pa. Vinegar, sauer-kraut, pickles, jams, &c. No. 146,133; Aug. 30; v. 289; p. 1015.
- Peerless Husker Company, Buffalo, N. Y. Cannery machinery. No. 141,045; Mar. 29; v. 284; p. 953.
- Peerless Key Co., Inc., New York, N. Y. Typewriter-keys, twirler-rings, shock-absorbers. No. 145,285; July 26; v. 288; p. 824.
- Peerless Paper Company, The, Dayton, Ohio. Ledger-paper. No. 146,835; Sept. 20; v. 290; p. 636.
- Peerless Roll Leaf Co., Inc., New York, N. Y. Metal roll-leaf. No. 140,515; Mar. 15; v. 284; p. 585.
- Peerless Tool Company, Chicago, Ill. Lifting-jacks, vises, wire-stretchers, wrenches, &c. No. 140,926; Mar. 29; v. 284; p. 947.
- Peirce, O. W., Company, La Fayette, Ind. Coffee. No. 143,867; June 14; v. 287; p. 401.
- Peiser, S. V., & Company, San Francisco, Calif. Grape-syrup used for food purposes. No. 143,710; June 7; v. 287; p. 186.
- Pelgram & Meyer. (See Mills & Gibb Corporation, assignor.)
- Pellegrino, Angelo, New York, N. Y. Medicine for rheumatism and gout. No. 144,623; July 12; v. 288; p. 425.
- Pellettiere, Geo. J., Worcester, Mass. Shoe-polish. No. 145,174; July 26; v. 288; p. 815.
- Pels-Jones, New York, N. Y. Jewelry. No. 141,638; Apr. 26; v. 285; p. 782.
- Pels-Jones, New York, N. Y. Monthly publication. No. 148,208; Nov. 8.
- Pelton & Pelton, Chicago, Ill. Bath-ropes and bathing-suits. No. 142,085; May 3; v. 286; p. 189.
- Pencovic, Perry, San Francisco, Calif. Liquid compound for radiators and water jackets. No. 140,932; Mar. 29; v. 284; p. 947.
- Pendleton Creamery Company, Pendleton, Ind. Butter. No. 140,927; Mar. 29; v. 284; p. 947.
- Penick & Ford Ltd., Inc., New Orleans, La. Live-stock-feeders' molasses. No. 138,849; Jan. 11; v. 282; p. 377.
- Penick & Ford, Ltd., New Orleans, La. Molasses candy. No. 139,021; Jan. 18; v. 282; p. 555.
- Penick & Ford, Ltd., Incorporated, New Orleans, La. Oil for use in salads and cooking. No. 140,716; Mar. 22; v. 284; p. 751.
- Penick & Ford, Ltd., Incorporated, New Orleans, La. Corn-starch. No. 142,222; May 3; v. 286; p. 196.
- Penick & Ford, Ltd., Incorporated, New Orleans, La. Gloss-starch. No. 143,866; June 14; v. 287; p. 401.
- Penick, S. B., & Company, Inc., New York, N. Y. Henna-leaves. No. 139,863; Feb. 22; v. 283; p. 754.
- Peninsular Paper Company, Ypsilanti, Mich. Printing, writing, cover, and bond paper. No. 146,836; Sept. 20; v. 290; p. 636.
- Penmans Limited, Paris, Ontario, Canada. Knitted underwear, hosiery, sweater, and jersey coats. No. 148,914; Nov. 29.
- Penn, A. C., Incorporated, Newark, N. J., and New York, N. Y. Electric portable lamps and electric-lamp supports. No. 141,298; Apr. 12; v. 285; p. 389.
- Penn, A. C., Incorporated, Newark, N. J., and New York, N. Y. Razors and razor-blades. Nos. 141,796-7; Apr. 26; v. 285; p. 792.
- Penn Brass Manufacturing Co., Cleveland, Ohio. Certain plumbing supplies. No. 147,511; Oct. 18.
- Penn Lubric Oil Company, Kansas City, Mo. Motor and engine oil, lubricating oils and greases, and carbonless motor-oil. No. 145,175; July 26; v. 288; p. 815.
- Penn Oil Co., Rosslyn, Va. Fuel-oils. No. 149,198; Dec. 6.
- Penn Rivet Corporation, Philadelphia, Pa. Safety-pins. No. 143,422; May 31; v. 286; p. 1051.
- Penn Rivet Corporation, Philadelphia, Pa. Toilet-pins. No. 143,423; May 31; v. 286; p. 1051.
- Penn Rivet Corporation, Philadelphia, Pa. Hairpins. No. 143,424; May 31; v. 286; p. 1051.
- Penn Rivet Corporation, Philadelphia, Pa. Skirt-belt. No. 143,425; May 31; v. 286; p. 1051.
- Penn Rivet Corporation, Philadelphia, Pa. Barrettes. No. 143,426; May 31; v. 286; p. 1051.
- Penn Rivet Corporation, Philadelphia, Pa. Hosiery. No. 143,711; June 7; v. 287; p. 186.
- Penn Rivet Corporation, Philadelphia, Pa. Snap-fasteners. No. 150,049; Dec. 27.
- Penn Rivet Corporation, Philadelphia, Pa. Safety-pins. No. 150,050; Dec. 27.
- Penn Rivet Corporation, Philadelphia, Pa. Snap-fasteners. No. 150,051; Dec. 27.
- Penn Rivet Corporation, Philadelphia, Pa. Safety-pins. No. 150,052; Dec. 27.
- Penn Textile Company, New York, N. Y. Piece textile fabrics. No. 148,915; Nov. 29.
- Penn Worsteds Company, Philadelphia, Pa. Hand-knitting yarns. No. 147,243; Oct. 4.
- Pennant Oil & Grease Co., Los Angeles, Calif. Lubricating-oils, greases, and gasoline. No. 147,367; Oct. 11.
- Pennewell, Charles F., San Francisco, Calif. Soil-bacteria. No. 147,667; Oct. 25.
- Penney, J. C., Company, Salt Lake City, Utah. Articles of clothing. No. 144,024; June 21; v. 287; p. 581.
- Pennington-Crowell Shoe Company, Manchester, N. H. Boots and shoes of leather or leather and rubber in combination. No. 145,774; Aug. 16; v. 289; p. 596.
- Pennrich & Company, Inc., New York, N. Y. Dyestuffs. No. 140,928; Mar. 29; v. 284; p. 947.
- Pennsylvania Chocolate Company, Pittsburgh, Pa. Chocolate and candy. No. 139,092; Jan. 18; v. 282; p. 560.
- Pennsylvania Chocolate Company, Pittsburgh, Pa. Chocolate and candy. No. 140,664; Mar. 22; v. 284; p. 746.
- Pennsylvania Coffee Company, Pittsburgh, Pa. Coffee. No. 144,448; July 5; v. 288; p. 194.
- Pennsylvania Knitting Mills Co., Spring Grove, Pa. Boys' hosiery. No. 140,929; Mar. 29; v. 284; p. 947.
- Pennsylvania Knitting Mills Company, Spring Grove, Pa. Boys' and misses' hosiery. No. 143,132; May 24; v. 286; p. 850.
- Pennsylvania Lawn Mower Works. (See Braun, John, & Sons, assignor.)
- Pennsylvania Pump & Compressor Co., Easton, Pa. Compressors and pumps and attachments therefor. No. 146,596; Sept. 13; v. 290; p. 422.
- Pennsylvania Range Boiler Co., Philadelphia, Pa. Range-boilers. No. 149,199; Dec. 6.
- Pennsylvania Refining Company, Philadelphia, Pa. Pitch, rosins, and tar. No. 142,086; May 3; v. 286; p. 189.
- Pennsylvania Sales & Export Co., Philadelphia, Pa. Glass lamp-globes. No. 140,052; Mar. 1; v. 284; p. 178.
- Pensco Products Co., Dayton, Ohio. Polish for furniture, automobiles, and floors, floor-wax. No. 146,330; Sept. 6; v. 290; p. 202.
- Penslar Company, The, Detroit, Mich. Cold-cream and appetizing- tonic. No. 143,133; May 24; v. 286; p. 850.
- Penton Publishing Company, The, Cleveland, Ohio. Monthly technical publication. No. 143,427; May 31; v. 286; p. 1051.
- Penton Publishing Company, The, Cleveland, Ohio. Daily trade publication. No. 144,025; June 21; v. 287; p. 581.
- Peoples Gas By-Products Corporation, Chicago, Ill. Benzol, toluol, xylo, naphthalene, and phenol. No. 142,087; May 3; v. 286; p. 189.
- Pep Brand Specialty Co., Boston, Mass. Malt extract. No. 140,930; Mar. 29; v. 284; p. 947.
- Pep Electrolite Co., Chicago, Ill. Storage-battery electrolyte. No. 148,702; Nov. 22.
- Pep Timer Company, Burlington, Vt. Spark-timer for automobiles. No. 139,726; Feb. 15; v. 283; p. 541.
- Pepin, Camille, Paris, France. Pharmaceutical preparation for relieving throat affections. No. 145,991; Aug. 23; v. 289; p. 789.
- Peppard, Mayme J., Minneapolis, Minn. Hair-curlers. No. 149,603; Dec. 13.
- Peppas & Alex Company, Chicago, Ill. Liquid and paste polish for shoes, sole and heel dressing, &c. No. 140,516; Mar. 15; v. 284; p. 585.
- Pepperell Manufacturing Company, Boston, Mass. Cotton piece goods. No. 141,199; Apr. 12; v. 285; p. 383.
- Peppers Gasoline Company, Enid, Okla. Lubricating oils and greases. No. 139,864; Feb. 22; v. 283; p. 754.
- Pepsin Seltzer Company, Worcester, Mass. Effervescing salt for certain named ailments. No. 142,386; May 10; v. 286; p. 410.
- Perfect Automatic Egg Timer and Manufacturing Company, Chicago, Ill. Time-controlled egg-boiler. No. 147,512; Oct. 18.
- Perfect, Fred H., Columbus, Ohio. Soldering and tinning flux. No. 144,038; June 21; v. 287; p. 582.
- Perfect, Mary, San Diego, Calif. Children's one and two piece dresses, rompers, hats, and textile underwear. No. 146,837; Sept. 20; v. 290; p. 636.
- Perfect Pea Picker Company, Hartwell, Ga. Pea-picker. No. 140,517; Mar. 15; v. 284; p. 585.
- Perfected Rolling Window Screen Co., Inc., New York, N. Y., assignor to Rolup Screen Company. Rolling window-screen, &c. No. 139,602; Feb. 8; v. 283; p. 353.
- Perfection Auto Parts Company, The, Cleveland, Ohio. Pistons. No. 139,368; Feb. 1; v. 283; p. 171.
- Perfection Auto Parts Company, The, Cleveland, Ohio. Carbureter-compensators. No. 140,931; Mar. 29; v. 284; p. 947.
- Perfection Biscuit Co., Fort Wayne, Ind. Sandwich-cake with filler of sugar cream, the whole covered with chocolate. No. 148,209; Nov. 8.
- Perfection Heater & Manufacturing Co., Cleveland, Ohio. Exhaust-gas motor-car heaters. No. 147,732; Oct. 25.
- Perfection Mills, Inc., New York, N. Y. Hosiery and knitted underwear. No. 145,775; Aug. 16; v. 289; p. 596.
- Perfection Products Co., New York, N. Y. Malt-syrup for food purposes. Nos. 140,665-6; Mar. 22; v. 284; p. 746.
- Perfex Radiator Company, Racine, Wis. Automobile-radiators. No. 148,703; Nov. 22.
- Perfumer Publishing Company, New York, N. Y. Monthly publication. No. 143,713; June 7; v. 287; p. 186.
- Perfumaria Floralia S. A., Madrid, Spain. Talc and face-powders, perfumes, hair-tonic, colognes, and toilet waters. No. 148,704; Nov. 22.



*Alphabetical list of registrants of trade-marks—Continued.*

- Perkins, A. E., Corporation, The, Dallas, Tex. Cleaner and polish for white leather shoes. No. 147,868; Oct. 11.
- Perkins, A. E., Jr., Baltimore, Md. Candy. No. 149,713; Dec. 20.
- Perkins, Benjamin J., Memphis, Tenn. Medicine used in the treatment of dyspepsia. No. 143,134; May 24; v. 286; p. 850.
- Perkins-Campbell Company, The, Cincinnati, Ohio. Belts for supporting wearing-apparel. No. 139,949; Feb. 22; v. 283; p. 760.
- Perkins-Campbell Company, The, Cincinnati, Ohio. Saddles, collars, and harness parts. No. 147,060; Sept. 27; v. 290; p. 808.
- Perkins, Floyd R., Chicago, Ill. Non-alcoholic beverages. No. 139,185; Jan. 25; v. 282; p. 735.
- Perkins, Floyd R., Chicago, Ill. Chewing-gum. No. 142,739; May 17; v. 280; p. 633.
- Perkins Glue Company, Lansdale, Pa. Starch-glue material. No. 139,093; Jan. 18; v. 282; p. 560.
- Perkins Glue Company, Lansdale, Pa. Starch-glue material. No. 139,865; Feb. 22; v. 283; p. 754.
- Perkins, Goodwin Co., New York, N. Y. Print-paper. No. 143,714; June 7; v. 287; p. 186.
- Perla Watch Co., Straub & Co., Bienne, Switzerland. Watches, clocks, chronometers, &c. No. 143,428; May 31; v. 286; p. 1051.
- Perlmutter, Solomon, New York, N. Y. Collars. No. 147,869; Oct. 11.
- Perlstein, Louis, New York, N. Y. Men's and young men's overcoats and suits. No. 142,704; May 17; v. 286; p. 632.
- Perolin Company of America, The, Chicago, Ill. Certain chemical compound. No. 147,146; Oct. 4.
- Perry-Lorenson Phonograph Company, Hudson, N. Y. Phonographs. No. 141,299; Apr. 12; v. 285; p. 389.
- Perry Mason Company, Boston, Mass. Story-papers and periodical magazines. No. 144,005; June 21; v. 287; p. 581.
- Perryman, I. P., Memphis, Tenn. Automobile-polish. No. 139,867; Feb. 22; v. 283; p. 754.
- Person, Frederick, Chicago, Ill. Container used as a hot-water bottle, &c. No. 146,549; Sept. 6; v. 290; p. 220.
- Peschier, Charles, Lyon, France. Silk piece goods. Nos. 140,518-9; Mar. 15; v. 284; p. 585.
- Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Milk-chocolate. No. 142,387; May 10; v. 286; p. 410.
- Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Milk chocolate and cocoa. No. 144,141; June 21; v. 287; p. 589.
- Peter Cailler Kohler Swiss Chocolates Co., Inc., New York, N. Y. Milk chocolates and cocoa. No. 149,788; Dec. 20.
- Peter Pan Co., The, New York, N. Y. Children's blouses and bloomers. No. 145,776; Aug. 16; v. 289; p. 596.
- Peterman, Wm., Inc., Passaic, N. J., and New York, N. Y. Insecticide for killing insects on poultry, &c. No. 142,088; May 3; v. 286; p. 189.
- Peters Bait Co., The, Knox, Ind. Fishing-reels. No. 145,899; Aug. 16; v. 289; p. 603.
- Peters, M. C., Mill Co., Omaha, Nebr. Live poultry. No. 147,013; Sept. 27; v. 290; p. 805.
- Peters, M. C., Mill Co., Omaha, Nebr. Dairy feed. No. 149,473; Dec. 13.
- Petersen, A. H., Mfg. Co., Milwaukee, Wis. Electric drills. No. 139,866; Feb. 22; v. 283; p. 754.
- Petersen, Arthur E., Portland, Oreg. Laundry washing compound. No. 145,436; Aug. 2; v. 289; p. 181.
- Petersen, Evelyn L., Oakland, Calif. Certain toilet preparation. No. 150,053; Dec. 27.
- Peterson, Harry W., & Company, Palmetto, Fla. Fresh citrus fruits. No. 142,705; May 17; v. 286; p. 632.
- Peterson, Stavros F., New York, N. Y. Candy. No. 141,639; Apr. 26; v. 285; p. 782.
- Petrium Sanitary Sink Co., Berkeley, Calif. Sinks and washtrays. No. 145,176; July 26; v. 288; p. 815.
- Petry, Jacob, Pittsburgh, Pa. Dental suction-retainers. No. 145,900; Aug. 16; v. 289; p. 603.
- Petty, N. A., Company, Inc., Philadelphia, Pa. Cut-outs and pedals for cut-outs and the like. No. 148,339; Nov. 8.
- Peyroux, A., & Cie., Paris, France. Tonic food in granulated form. No. 145,437; Aug. 2; v. 289; p. 181.
- Peyton-Palmer Co., Danville, Ill. Canned fruits and vegetables, condiments, coffee. No. 146,838; Sept. 20; v. 290; p. 636.
- Pfaff & Kendall, Newark, N. J. Clothesline-posts of metal. No. 140,934; Mar. 29; v. 284; p. 947.
- Pfeffer, Genevieve, San Jose, Calif. Sweetmeats. No. 142,089; May 3; v. 286; p. 189.
- Pfeffer, Genevieve, San Jose, Calif. Dresses, suits, pants, rompers, capes, &c., for women and children. No. 145,777; Aug. 16; v. 289; p. 596.
- Pfeifer Brothers, Little Rock, Ark. Certain articles of clothing. No. 149,325; Dec. 6.
- Pfeifer, Frank, and Bernard R. Pfeifer, Fargo, N. D. Retort for producing gas, tar, and creosote from straw and other vegetable materials. No. 148,506; Nov. 15.
- Pfeiffer, Charles E., Paris, France. Cigarette-papers and tubes for cigarettes. Nos. 149,474-81; Dec. 13.
- Pfeiffer, Charles E., Paris, France. Cigarette-papers and tubes for cigarettes. No. 150,054; Dec. 27.
- Pfeiffer, S., Manufacturing Co., St. Louis, Mo. Medicinal preparation for the relief of diseases and disorders of the liver. No. 139,868; Feb. 22; v. 283; p. 754.
- Pfizer, Chas., & Co., Inc., New York, N. Y. Chemicals, medicines, and pharmaceutical preparations. No. 142,090; May 3; v. 286; p. 189.
- Ph. Weinberg & Sons, New York, N. Y. Golf-suits. No. 139,472; Feb. 1; v. 283; p. 177.
- Pharma-Chemical Corporation, New York, N. Y. Creosote carbonate, sulfonmethane, &c. No. 140,933; Mar. 29; v. 284; p. 947.
- Phenix Cheese Co., New York, N. Y. Milk sugar. No. 148,210; Nov. 8.
- Phenix Cheese Company, New York, N. Y. Cream-cheese. No. 139,094; Jan. 18; v. 282; p. 560.
- Phenix Cheese Company, New York, N. Y. Cheese, butter, and eggs. No. 142,711; May 17; v. 286; p. 632.
- Philadelphia Operative Builders Association, Philadelphia, Pa. Monthly periodical. No. 149,714; Dec. 20.
- Philadelphia Quartz Company, Philadelphia, Pa. Sodium silicate. No. 139,186; Jan. 25; v. 282; p. 735.
- Philadelphia Shoe Repairing Company, Inc., Philadelphia, Pa. Leather and fabric shoes and insoles and heels. No. 142,317; May 10; v. 286; p. 405.
- Philbern Thermometer Co., New York, N. Y. Thermometers. No. 145,992; Aug. 23; v. 289; p. 789.
- Philippe, Louis, New York, N. Y. Perfumes, cosmetics, and skin-lotions. No. 143,135; May 24; v. 286; p. 850.
- Philippino, Salvatore C., State College, Pa. Toilet preparations. No. 143,136; May 24; v. 286; p. 850.
- Phillips & Carr, a Copartnership, Waterloo, Iowa. Brooms. No. 139,187; Jan. 25; v. 282; p. 735.
- Phillips & Clark Stove Co. Inc., Geneva, N. Y. Stoves, ranges, and furnaces. No. 142,091; May 3; v. 286; p. 189.
- Phillips, Henry L., Mobile, Ala. Canned blackberries, sweet peas, tomatoes, &c. No. 139,603; Feb. 8; v. 283; p. 353.
- Phillips, Henry T., Columbus, Ohio. Nail-polish. No. 139,869; Feb. 22; v. 283; p. 754.
- Phillips, James M., Louisville, Ky. Cigarettes. No. 143,456; May 31; v. 286; p. 1052.
- Phillips-Jones Corporation, New York, N. Y. Men's and boys' dress and negligee shirts. No. 140,667; Mar. 22; v. 284; p. 747.
- Phillips, Phil D., Spencer, W. Va. Medical preparation for relief of ailments of the stomach, liver, &c. No. 139,692; Feb. 8; v. 283; p. 353.
- Phillips, William L., Brockton, Mass. Spark-plugs. No. 145,438; Aug. 2; v. 289; p. 181.
- Philo Hay Company, Newark, N. J. Henna shampoo. No. 146,332; Sept. 6; v. 290; p. 202.
- Philpot, Richard C., Bennington, Okla. Preparation for blindstagers in horses, hogs, &c. No. 141,640; Apr. 26; v. 285; p. 782.
- Phin, Alexander C., Jr., Norway, S. C. Sick-headache remedy. No. 140,461; Mar. 15; v. 284; p. 583.
- Phinny Brothers Company, Oil City, Pa. Certain oils and greases. No. 145,778; v. 289; Aug. 16; p. 596.
- Phoel & Schaller, New York, N. Y. Finger-rings and other articles of jewelry of precious metal. No. 148,507; Nov. 15.
- Phoenix Manufacturing Company, Inc., New York, N. Y. Cotton piece goods. No. 140,668; Mar. 22; v. 284; p. 747.
- Phoenix Packing Company, Buras, La. Canned shrimp. Nos. 144,893-4; July 19; v. 288; p. 621.
- Phoenix Paint & Varnish Company, Philadelphia, Pa. Ready-mixed paints. No. 149,482; Dec. 13.
- Photographic Appliance Corporation, Minneapolis, Minn. Photographic printing, developing, washing, drying, and trimming machines, &c. No. 139,604; Feb. 8; v. 283; p. 353.
- Physician's Drug Manufacturing Association, Wilmington, Del., and Springfield, Mass. Alkaline antiseptic, tonic, laxative, and nerve-tonic. No. 147,018; Sept. 27; v. 290; p. 805.
- Piccoli, Nick, Paterson, N. J. Shoe-polish and hat-cleaning material. No. 141,200; Apr. 12; v. 285; p. 383.
- Pick, Albert, & Company, Chicago, Ill. Soda-fountains. No. 147,805; Nov. 1.
- Pickering, William S., Lynn, Mass. General tonic. No. 147,019; Sept. 27; v. 290; p. 805.
- Piedmont Mfg. Co., Greenville, S. C. Gray sheetings and drills in the piece. No. 139,369; Feb. 1; v. 283; p. 171.
- Piedmont Mills, Inc., Lynchburg, Va. Cornmeal. No. 139,605; Feb. 8; v. 283; p. 353.
- Piedmont Mills, Inc., Lynchburg, Va. Wheat-flour. No. 145,993; Aug. 23; v. 289; p. 789.
- Piedmont Tobacco Co. Inc., Danville, Va. Tobacco and cigarettes. No. 142,892; May 17; v. 286; p. 641.
- Piel Bros., Inc., Brooklyn, N. Y. Various non-alcoholic maltless beverages. Nos. 142,706-7; May 17; v. 286; p. 632.
- Piel Bros., Inc., Brooklyn, N. Y. Non-alcoholic maltless beverages. No. 142,712; May 17; v. 286; p. 632.
- Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Bodies for automobiles and parts thereof. No. 147,669; Oct. 25.
- Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Frames for automotive vehicles and parts thereof. No. 147,668; Oct. 25.



- Pierce, F. O., Company, New York, N. Y. Bituminous rubber paint. No. 146,839; Sept. 20; v. 290; p. 636.
- Pierce Oil Corporation, Richmond, Va., and New York, N. Y. Petroleum products consisting of gasolene, kerosene, &c. No. 149,201; Dec. 6.
- Pierce, S. S., Co., Boston, Mass. Hair-nets. No. 143,715; June 7; v. 287; p. 186.
- Pierce, S. S., Co., Boston, Mass. Preparation to prevent perspiration. No. 145,779; Aug. 16; v. 289; p. 596.
- Piersen Manufacturing Company, The, Topeka, Kans. Hydrocarbon-engines. No. 140,520; May 15; v. 284; p. 585.
- Pig & Whistle Company, San Francisco, Calif. Chocolate candy. No. 148,211; Nov. 8.
- Pike Manufacturing Company, Pike and Littleton, N. H.; Evansville, Vt.; Orleans, Ind.; Hot Springs, Ark., and New York, N. Y. Razors. No. 148,212; Nov. 8.
- Pilgrim Pictures Company, Boston, Mass. Motion-picture-projecting machine and films therefor. No. 145,489; Aug. 2; v. 289; p. 181.
- Pills for biliousness, headaches, &c., and a laxative. R. H. Hunstock Chemical Co. No. 145,693; Aug. 16; v. 289; p. 594.
- Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat-bran. No. 138,917; Jan. 11; v. 282; p. 382.
- Pillsbury Flour Mills Company, Minneapolis, Minn. Rye and wheat flour. No. 139,610; Feb. 8; v. 283; p. 353.
- Pillsbury Flour Mills Company, Minneapolis, Minn. Flour made from wheat. Nos. 139,742-5; Feb. 15; v. 283; p. 544.
- Pillsbury Flour Mills Company, Minneapolis, Minn. Flour made from wheat. No. 143,430; May 31; v. 286; p. 1052.
- Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat-flour. No. 146,550; Sept. 6; v. 290; p. 220.
- Pillsbury Flour Mills Company, Minneapolis, Minn. Pancake-flour. No. 146,933; Sept. 20; v. 290; p. 642.
- Pia Tel Manufacturing Corporation, New York, N. Y. Neckties. No. 142,318; May 10; v. 286; p. 405.
- Pines Manufacturing Company, Chicago, Ill. Automobile-radiator shutters. No. 143,868; June 14; v. 287; p. 401.
- Pingo Company, Cambridge, Mass. Preparation for blacking and dressing iron surfaces. No. 145,641; Aug. 16; v. 289; p. 592.
- Pinkney, Bryan D., Newport, Ky. Aluminum-alloy plate which automatically cleans gold, gold-plated, silver, silver-plated articles. No. 147,370; Oct. 11.
- Pioneer Creamery Co., Galesburg, Ill. Butter, eggs, and cream. No. 148,705; Nov. 22.
- Pioneer Tar Soap Co., The, Dayton, Ohio. Soaps. No. 147,806; Nov. 1.
- Pirika Chocolate Co. Inc., Brooklyn, N. Y. Candy. No. 148,213; Nov. 8.
- Pirika Chocolate Co. Inc., The, Brooklyn, N. Y. Candy. No. 148,508; Nov. 15.
- Piroot Corporation, Detroit, Mich. Chewing-gum. No. 143,716; June 7; v. 287; p. 186.
- Piscek & Briscoe, Gallup, N. Mex. Blood-purifying solution for medicinal purposes. No. 149,604; Dec. 13.
- Pisculli, Ferdinand M., Yonkers, N. Y. Polish for automobile-bodies, pianos, furniture, and the like. No. 141,201; Apr. 12; v. 285; p. 383.
- Piston Ring Company, The, Muskegon Heights, Mich. Piston-rings. No. 141,046; Mar. 29; v. 284; p. 953.
- Pitard's Inc., New Orleans, La. Cutlery and tools. No. 141,202; Apr. 12; v. 285; p. 383.
- Pitchfork Company, The, Dallas, Tex. Monthly publications. No. 145,780; Aug. 16; v. 289; p. 596.
- Pittman, Henry C., New York, N. Y. Hacksaws. No. 140,935; Mar. 29; v. 284; p. 947.
- Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Hosiery. No. 148,706; Nov. 22.
- Pittsburgh Iron Folding Bed Co., Pittsburgh, Pa. Bedsteads, metal folding beds, metal couches, woven-wire mattresses, &c. No. 144,449; July 5; v. 288; p. 194.
- Pittsburgh Plate Glass Company. (See Patton Paint Company, assignor.)
- Pittsburgh Plate Glass Company, Pittsburgh, Pa., and Long Island City, N. Y. Sponges. No. 139,370; Feb. 1; v. 283; p. 171.
- Pittsburgh Plate Glass Company, Rennous-Kleinle Division, Baltimore, Md. Brushes. Nos. 148,597-8; Nov. 15.
- Pittsburgh Shovel Company, Leechburg and Pittsburgh, Pa. Shovels and scoops. No. 143,137; May 24; v. 286; p. 850.
- Pittsburgh Steel Company, Pittsburgh, Pa. Wire and coated nails, barb-wire, &c. No. 140,293; Mar. 8; v. 284; p. 373.
- Pittsburgh Tool Steel Wire Company, Monaca, Pa. Drill-roads and cold-drawn steel. No. 149,483; Dec. 13.
- Pittsburgh Transformer Company, Pittsburgh, Pa. Liquid insulating compound for both electrical apparatus and transformers. No. 139,188; Jan. 25; v. 282; p. 735.
- Pixine Chemical Company, Troy, N. Y. Ointment. No. 140,936; Mar. 29; v. 284; p. 947.
- Plant, H. W., & Co., Limited, Leicester, England. Knitted woolen articles of clothing, comprising coats, skirts, &c. No. 147,807; Nov. 1.
- Plant, Ray C., Minneapolis, Minn. Electric-lighting fixture. No. 150,056; Dec. 27.
- Plant, Thomas G. Company, Boston, Mass. Men's, women's, and children's boots, shoes, and slippers. No. 140,669; Mar. 22; v. 284; p. 747.
- Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers. No. 142,092; May 3; v. 286; p. 189.
- Plant, Thomas G., Company, Boston, Mass. Shoe-laces, shoe-horns, and button-hooks. No. 142,708; May 17; v. 286; p. 632.
- Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers of leather, rubber, felt, silk, &c. No. 144,913; July 19; v. 288; p. 621.
- Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers of leather, rubber, felt, silk, &c. Nos. 145,571-2; Aug. 9; v. 289; p. 408.
- Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers of leather, rubber, felt, &c. No. 145,781; Aug. 16; v. 289; p. 597.
- Plant, Thomas G., Company, Boston, Mass. Boots, shoes, slippers, spats. No. 146,551; Sept. 6; v. 290; p. 220.
- Plant, Thomas G., Company, Boston, Mass. Men's, women's, and children's boots, shoes, and slippers, &c. No. 150,055; Dec. 27.
- Plasterer, Purl C., Hamilton, Ohio, assignor to Darn E. Z. Laboratories. Patching-cement. No. 150,057; Dec. 27.
- Platin Bros. Shoe Co., Boston, Mass. Boots and shoes made of leather. No. 143,717; June 7; v. 287; p. 186.
- Platt-Rubin Company, Chicago, Ill. Velocipedes. No. 146,333; Sept. 6; v. 290; p. 202.
- Platt, Rylance S., Lawrence, Mass. Remedy for boils, carbuncles, abscesses, &c. No. 142,093; May 3; v. 286; p. 189.
- Plaut, L. S., & Co., Newark, N. J. Yard goods used in bedspreads, sheets, and related cotton goods. No. 149,715; Dec. 20.
- Plaza Confectionery Co. Inc., New York, N. Y. Candy, chocolates, and bonbons. No. 139,606; Feb. 8; v. 283; p. 353.
- Plimack Brothers, Inc., New York, N. Y. Men's and young men's suits and overcoats. No. 145,782; Aug. 16; v. 289; p. 597.
- Plough Chemical Company, Memphis, Tenn. Certain medicinal and toilet preparations. Nos. 148,723-4; Nov. 22.
- Plough Chemical Company, Memphis, Tenn. Medicine for rheumatism, gout, sciatica, lumbago, &c. No. 148,916; Nov. 29.
- Pluckrose, John, London, England. Copying and duplicating apparatus. No. 148,509; Nov. 15.
- Plumenail, Fernand, Paris, France. Chocolates, chocolate or cocoa powder, confectionery, biscuits, &c. No. 144,759; July 19; v. 288; p. 617.
- Plummer & Edwins, Seattle, Wash. Fresh deciduous fruit. No. 146,841; Sept. 20; v. 290; p. 636.
- Plunkett, William H., Chicago, Ill. Insecticides. No. 140,937; Mar. 29; v. 284; p. 947.
- Plymouth Cordage Company, Plymouth, Mass. Binder-twine. Nos. 147,147-8; Oct. 4.
- Pneumo Phthysine Chemical Mfg. Co., Chicago, Ill. Medicinal plaster for the alleviation of pneumonia, bronchitis, pleurisy, &c. No. 143,138; May 24; v. 286; p. 850.
- Poage, R. C., Milling Co., Ashland and Catlettsburg, Ky. Wheat-flour. No. 142,094; May 3; v. 286; p. 189.
- Poage-Wall Milling Company, The, Catlettsburg, Ky. Wheat-flour. No. 148,510; Nov. 15.
- Pocahontas Braid Corporation, New York, N. Y. Trimming and belting snap-fasteners, and shoe-laces. No. 140,521; Mar. 15; v. 284; p. 585.
- Pocahontas Candy Co., Washington, D. C. Candies. No. 148,511; Nov. 15.
- Pocomoke Guano Co., The, Norfolk, Va. Fertilizer. No. 144,450; July 5; v. 288; p. 194.
- Pohlmann, Herman G., Chicago, Ill. Writing-paper. No. 148,214; Nov. 8.
- Poke, C. B., Mfg. Co., Kansas City, Mo. Cattle-pokes. Nos. 144,259-61; June 28; v. 287; p. 776.
- Polan, Katz & Co., Baltimore, Md. Parasols and umbrellas. No. 144,026; June 21; v. 287; p. 581.
- Poldi Steel Corporation of America, New York, N. Y. Steel billets, bars, forgings, and desks. No. 150,058; Dec. 27.
- Pollak Steel Company, The, Carthage, Cincinnati, Ohio. Metal bars for reinforcing concrete. No. 142,710; May 17; v. 286; p. 632.
- Pollack, Max, & Co., Inc., New York, N. Y. Sewing-threads. Nos. 146,842-5; Sept. 20; v. 290; p. 636.
- Pollard Machinery Company, Incorporated, Niagara Falls, N. Y. Stone-cutting machines. No. 150,059; Dec. 27.
- Pollard, Margaret, Toronto, Ontario, Canada. Medicine for scrofula and skin affections. No. 141,641; Apr. 26; v. 285; p. 782.
- Pollard, Margaret, Toronto, Ontario, Canada. Nerve medicine or preparation. No. 141,642; Apr. 26; v. 285; p. 782.
- Pollock & Beckoff, New York, N. Y. Men's suits and overcoats. No. 142,095; May 3; v. 286; p. 189.
- Pollock, Grant E., Clinton, Ill. Coaster-sleds. No. 150,060; Dec. 27.
- Polly Trent Candy Company, Washington, D. C. Candy. No. 145,901; Aug. 16; v. 289; p. 603.
- Polygon Ink Company, London, England. Writing-ink and ink for typewriter carbons, and ribbons and carbon-papers for typewriters. No. 148,512; Nov. 15.
- Pomeroy Ink Manufacturing Co., Newark, N. J. Mucilage, paste, and sealing-wax. No. 149,484; Dec. 13.



*Alphabetical list of registrants of trade-marks—Continued.*

- Pond, Katherine R., Rutland, Vt. Lubricant to be applied to the human skin. No. 148,725; Nov. 22.
- Pond's Extract Company, New York, N. Y. Vanishing cream. No. 141,047; Mar. 29; v. 284; p. 953.
- Pontiac Lawn Mower Co., Detroit, Mich. Lawn-mowers. No. 143,261; May 24; v. 286; p. 858.
- Pontiac Manufacturing Company, The, Auburn, Me. Woolen outside shirts, coats, vests, and pants. No. 146,846; Sept. 20; v. 290; p. 636.
- Pontin, Elmer, Long Island City, N. Y. Motion-picture cameras, combined motion-picture cameras and projectors, and motion-picture-projecting machines. No. 144,027; June 21; v. 287; p. 581.
- Pontoosuc Woolen Mfg. Co., Pittsfield, Mass. Woolen and worsted piece goods. No. 149,202; Dec. 6.
- Porcelain Enamel and Manufacturing Company of Baltimore, Baltimore, Md. Vitreous and porcelain enamels. No. 146,847; Sept. 20; v. 290; p. 636.
- Portable Machinery Company Inc., Clifton, N. J. Conveyor-machines. No. 142,893; May 17; v. 286; p. 641.
- Porter Baking Co., The, assignor to Creme-O-Toast Company, Seattle, Wash. Sliced prepared toast in packages. No. 149,203; Dec. 6.
- Porter Chemical Company, The, Hagerstown, Md. Outfit for making fancy articles and sachets. No. 142,096; May 3; v. 286; p. 189.
- Porter Chemical Company, The, Hagerstown, Md. Guessing game. No. 142,718; May 17; v. 286; p. 632.
- Porter Chemical Company, The, Hagerstown, Md. Maps, charts, and printed books used in connection therewith. No. 147,385; Oct. 11.
- Porter Chemical Company, The, Hagerstown, Md. Paper-cut-out game for character analysis. No. 149,204; Dec. 6.
- Porter Company, Chicago, Ill. Spark-plugs. No. 145,177; July 26; v. 288; p. 815.
- Porter, Mae C., Dallas, Tex. Hair-producer. No. 150,061; Dec. 27.
- Portland Cordage Co., The, Portland, Oreg. Manila rope. No. 142,709; May 17; v. 286; p. 632.
- Portland Cordage Co., The, Portland, Oreg. Manila rope. No. 142,713; May 17; v. 286; p. 632.
- Portland Cordage Co., The, Portland, Oreg. Lariat-rope. No. 149,485; Dec. 13.
- Portland Flouring Mills Co., The, Portland, Oreg. Self-rising wheat-flour. No. 146,125; Aug. 30; v. 289; p. 1015.
- Porto Rico Consolidated Fruit Company, Buffalo, N. Y. Fresh fruits of tropical and semitropical origin. No. 149,486; Dec. 13.
- Porto Rico Fruit Exchange, The, San Juan, Porto Rico. Oranges, grapefruit, and pineapples in their natural state. No. 145,783; Aug. 16; v. 289; p. 597.
- Posey & Meyer Co., Los Angeles, Calif. Soap in the form of a paste. No. 143,431; May 31; v. 286; p. 1052.
- Post Manufacturing Company, Kent, Ohio. Machinery for manufacturing concrete products. No. 145,573; Aug. 9; v. 289; p. 408.
- Postgraph Company, The, Cleveland, Ohio. Posters. No. 140,192; Mar. 8; v. 284; p. 366.
- Potentia Company, The, Detroit, Mich. Hair- tonic. No. 148,215; Nov. 8.
- Poth & Kuehner, St. Louis, Mo. Preparation for the treatment of piles. No. 148,726; Nov. 22.
- Potter & Buffington Co., Providence, R. I. Charms for personal wear which are made of or plated with precious metal. No. 148,513; Nov. 15.
- Poultry Producers of Central California, Inc., San Francisco, Calif. Eggs. No. 139,607; Feb. 8; v. 283; p. 353.
- Poultry Producers of Central California, Inc., San Francisco, Calif. Eggs. Nos. 146,334-5; Sept. 6; v. 290; p. 202.
- Power Specialty Company, New York, N. Y. Oil-stills. No. 140,053; Mar. 1; v. 284; p. 178.
- Power, T. C., Company, The, Helena, Mont. Field and grain seeds. No. 140,993; Mar. 29; v. 284; p. 949.
- Power, T. C., Company, The, Helena, Mont. Certain farm implements. No. 147,670; Oct. 25.
- Powers Paper Company, Springfield, Mass. Papeteries, writing tablets and paper, mailing-envelops. No. 142,894; May 17; v. 286; p. 641.
- Pozmantier, Samuel, New York, N. Y. Preparations for the treatment of boils, burns, &c. No. 145,784; Aug. 16; v. 289; p. 597.
- Pozmantier, Samuel, New York, N. Y. Preparation promoting the growth of the hair. No. 146,848; Sept. 20; v. 290; p. 636.
- Praemant Corporation of America, New York, N. Y. Embossing-machines and cutting and punching dies. No. 148,514; Nov. 15.
- Prange, Henry T., Kalamazoo, Mich. Glass cleansing and polishing liquid. No. 149,487; Dec. 13.
- Frasse Lumber Company, The, Cleveland, Ohio. Lumber. No. 143,832; June 7; v. 287; p. 194.
- Prator, Ernest P., Leper, Mo. Cutting and welding torches. No. 149,794; Dec. 20.
- Pratt Food Co., Philadelphia, Pa. Foods for horses, cattle, hogs, &c. No. 141,799; Apr. 26; v. 285; p. 792.
- Pratt, Francis, & Son, Somerville, Mass. Metallic pen-points. No. 145,178; July 26; v. 288; p. 815.
- Pratt & Lambert, Inc., Buffalo, N. Y. Paints and painters' materials. No. 139,608; Feb. 8; v. 283; p. 353.
- Pratt-Low Preserving Company, Santa Clara, Calif. Canned fruits, vegetables, and grapes. Nos. 141,800-1; Apr. 26; v. 285; p. 792.
- Pratt-Low Preserving Company, Santa Clara, Calif. Canned fruits and grapes. No. 143,262; May 24; v. 286; p. 858.
- Pratt, Milan F., Rochester, N. Y. Medicine for the nerves and blood. No. 141,777; Apr. 26; v. 285; p. 790.
- Pratt, Milan F., Rochester, N. Y. Salts used in the treatment of certain named diseases. No. 142,388; May 10; v. 286; p. 410.
- Pratt & Whitney Company, New York, N. Y. Milling-cutters. No. 140,522; Mar. 15; v. 284; p. 585.
- Pre-Cast Products Co., Philadelphia, Pa. Building blocks and slabs made from stone, artificial stone, &c. No. 143,432; May 31; v. 286; p. 1052.
- Precision Instrument Company, Detroit, Mich. Measuring appliances. No. 143,263; May 24; v. 286; p. 859.
- Precision Instrument Company, Newark, N. J. Fluid-pressure gages. Nos. 144,028-31; June 21; v. 287; p. 581.
- Precision Thermometer and Instrument Company, Philadelphia, Pa. Sphygmomanometers, thermometers, hydrometers, hygrometers, &c. No. 147,386; Oct. 11.
- Preis, J. J., & Co., New York, N. Y. Coats, trousers, vests, and overcoats. No. 138,918; Jan. 11; v. 282; p. 382.
- Preiss, Gustave A., Elgin, Ill. Lubricating-oils. No. 138,850; Jan. 11; v. 282; p. 377.
- Premier Machinery Company, San Francisco, Calif. Fruit and vegetable peelers, washers, and slicers, exhaust-boxes, &c. No. 150,062; Dec. 27.
- Premier Malt Products Co. of Ohio, Inc., Steubenville, Ohio. Malt syrup used for food purposes. No. 149,716; Dec. 20.
- Prentiss, William, Jr., Company, Chicago, Ill. Confectionery piece consisting largely of fig and cocoanut. No. 139,913; Feb. 22; v. 283; p. 756.
- Prentiss, William, Jr., Company, Chicago, Ill. Nut-candy. No. 140,938; Mar. 29; v. 284; p. 947.
- Prescott, J. L., Company, New York, N. Y. Laundry blue. No. 150,063; Dec. 27.
- President Suspender Company, Shirley, Mass. Garters. No. 140,294; Mar. 8; v. 284; p. 373.
- Press, George F., Detroit, Mich. Preparation for use in producing whipped cream. No. 141,203; Apr. 12; v. 285; p. 383.
- Press, Jacob, New York, N. Y. Men's garters. No. 149,326; Dec. 6.
- Pressure Proof Piston Ring Company, Boston, Mass. Piston-rings. No. 139,950; Feb. 22; v. 283; p. 760.
- Pressure Proof Piston Ring Company, Boston, Mass. Piston-rings. No. 143,263; May 24; v. 286; p. 858.
- Pressure Proof Piston Ring Company, Boston, Mass. Monthly periodical. No. 145,785; Aug. 16; v. 289; p. 597.
- Presto Cigarette Case Corp. of N. Y. Inc., North Attleboro, Mass. Cigarette-cases. No. 145,179; July 26; v. 288; p. 815.
- Prest-O-Life Company, Inc., Indianapolis, Ind. Trade publication. No. 141,204; Apr. 12; v. 285; p. 383.
- Preston Chemical Company, Inc., Brooklyn, N. Y. Antiseptic in the form of powder, tablets, and cream. No. 140,939; Mar. 29; v. 284; p. 947.
- Preston Chemical Co. Inc., Brooklyn, N. Y. Preparation for certain named purposes. No. 149,605; Dec. 13.
- Preston, Horace G. Company, Detroit, Mich. Leather packings. No. 150,064; Dec. 27.
- Prestoy Mfg. Co., Bridgeport, Conn. Doll swings and high-chairs, toy sulkies and drums. No. 144,624; July 12; v. 288; p. 425.
- Prestoy Mfg. Co., The, Bridgeport, Conn. House-tables, house-chairs, and desks. No. 147,387; Oct. 11.
- Prevento-Hole, Inc., New York, N. Y. Preparation for increasing wearing properties of fabrics. No. 145,786; Aug. 16; v. 289; p. 597.
- Prewitt, William H., Brookford, N. C. Hernial trusses. No. 142,714; May 17; v. 286; p. 632.
- Price Brothers & Company Limited, Quebec, Quebec, Canada. News-print paper, cardboard, and wood-board. No. 140,193; Mar. 8; v. 284; p. 366.
- Price, E. G., Reldsville, N. C. Preparation which beautifies the hair and aids its growth. No. 143,139; May 24; v. 286; p. 850.
- Price and Teeple Piano Company, Chicago, Ill. Player-pianos. No. 144,451; July 5; v. 288; p. 194.
- Price, William B., Poughkeepsie, N. Y. Waterproofing composition for fabrics of all kinds. No. 145,995; Aug. 23; v. 289; p. 789.
- Price, William H., Jr., Akron, Ohio. Dancing dolls. No. 148,917; Nov. 29.
- Prichard & Constance, Inc., New York, N. Y. Soaps. No. 143,140; May 24; v. 286; p. 850.
- Priddy, George H., Huntington, W. Va. Water-deflecting dressing for windshields. No. 150,065; Dec. 27.
- Pride, William F., Tampa, Fla. Cigars. No. 142,715; May 17; v. 286; p. 632.
- Primalt Products Company, Chicago, Ill. Ginger-ale. No. 147,671; Oct. 25.
- Primalt Products Company, Chicago, Ill. Near beer and malt tonic. No. 148,216; Nov. 8.
- Primolite Company, Indianapolis, Ind. Headlight-lenses. No. 140,940; Mar. 29; v. 284; p. 947.



- Prince, John D., Boston, Mass. Heels for boots and shoes. No. 146,552; Sept. 6; v. 290; p. 220.
- Princess Textile Mills Inc., New York, N. Y. Woolen piece goods. No. 148,217; Nov. 8.
- Print-Aid Company, Dayton, Ohio. Cleaner for removing dry and wet ink from printing equipment. No. 150,205; Dec. 27.
- Priscilla Company, The, Boston, Mass. Receptacles. No. 139,609; Feb. 8; v. 283; p. 353.
- Priscilla Company, The, Boston, Mass. Certain named furniture-covers, table-scarfs, handkerchiefs, &c. No. 144,032; June 21; v. 287; p. 581.
- Process Engineers, Incorporated, New York, N. Y. Printed booklets and leaflets. No. 147,388; Oct. 11.
- Pro-Cide Company, The, Wilkes-Barre, Pa. Mouth-washes. No. 113,718; June 7; v. 287; p. 186.
- Procter and Gamble Company, The, Cincinnati, Ohio. Cotton-seed oil. No. 139,693; Feb. 8; v. 283; p. 358.
- Procter and Gamble Company, The, Cincinnati, Ohio. Cotton-seed oil. No. 139,951; Feb. 22; v. 283; p. 760.
- Procter and Gamble Company, The, Cincinnati, Ohio. Glycerin. No. 140,015; Mar. 1; v. 284; p. 174.
- Procter & Gamble Company, The, Cincinnati, Ohio. Soap chips. No. 141,205; Apr. 12; v. 285; p. 383.
- Procter and Gamble Company, The, Cincinnati, Ohio. Oleomargarin. Nos. 142,716-17; May 17; v. 286; p. 632.
- Procter and Gamble Company, The, Cincinnati, Ohio. Washing-powder. No. 144,895; July 19; v. 288; p. 621.
- Procter and Gamble Company, Cincinnati, Ohio. Soap. No. 145,440; Aug. 2; v. 289; p. 181.
- Procter and Gamble Company, The, Cincinnati, Ohio. Coconut-oil. No. 146,337; Sept. 6; v. 290; p. 202.
- Procter and Gamble Company, The, Cincinnati, Ohio. Cooking-fats. No. 147,672; Oct. 25.
- Procter and Gamble Company, The, Cincinnati, Ohio. Oleomargarin. Nos. 147,808-9; Nov. 1.
- Procter and Gamble Company, The, Cincinnati, Ohio. Cooking-fats. No. 147,810; Nov. 1.
- Procter and Gamble Company, The, Cincinnati, Ohio. Edible coconut-oil. No. 148,218; Nov. 8.
- Producers and Refiners Corporation, Denver, Colo. Petroleum oils and greases for lubricating purposes. Nos. 139,371-3; Feb. 1; v. 283; p. 171.
- Producers & Refiners Corporation, Denver, Colo. Gasolene, kerosene, and lubricating-oil. No. 142,319; May 10; v. 286; p. 405.
- Progress Roller Company, Omaha, Nebr. Rubber rollers for all inking-presses. No. 146,336; Sept. 6; v. 290; p. 202.
- Prokos, George N., Washington, D. C. Non-alcoholic, non-cereal, maltless beverage. No. 150,066; Dec. 27.
- Protonic Druggists Inc., The, Baltimore, Md. Certain medicinal and pharmaceutical preparations. No. 148,727; Nov. 22.
- Propp, M., Co., The, New York, N. Y. Electrical attachment-plugs, sockets, and connectors. No. 141,206; Apr. 12; v. 285; p. 383.
- Prosperity Company, Inc., The, assignor to N. Braun, Syracuse, N. Y. Knitted cotton padding. No. 143,720; June 7; v. 287; p. 186.
- Protectoglare Co., The, Los Angeles, Calif. Glare-shields attachable to front of automobile-tops. No. 149,717; Dec. 20.
- Proto Chemical Co., Inc., New York, N. Y. Tonic and restorative preparations. No. 139,022; Jan. 18; v. 282; p. 555.
- Proto Chemical Co., Inc., New York, N. Y. Galactagogue preparations. No. 147,149; Oct. 4.
- Providence Braid Company, Inc., Pawtucket, R. I. Shoe-laces. No. 148,219; Nov. 8.
- Prunella Health Food Company, Dickinson, N. D. Food composed of wheat-bran, flour, prunes, honey and milk. No. 149,205; Dec. 6.
- Pruyn Company of America, The, Philadelphia, Pa. Ball and roller bearings. No. 139,952; Feb. 22; v. 283; p. 760.
- Pruyn, Francis L., et al. (See Stim-U-Plant Tablet Co.) Public Service Corporation, San Francisco, Calif. Paper toilet-shields. No. 138,919; Jan. 11; v. 282; p. 382.
- Puderbaugh, David G., Altoona, Pa. Medicinal preparation for certain uses. No. 147,811; Nov. 1.
- Puebla, Aniana Y., Cordoba, Spain. Olive-oil. No. 148,768; Nov. 22.
- Puente Oil Company, Los Angeles, Calif. Lubricating-oils. No. 141,643; Apr. 26; v. 285; p. 782.
- Puente Oil Company, Los Angeles, Calif. Gasolene. No. 143,523; May 31; v. 286; p. 1056.
- Puffer-Hubbard Manufacturing Company, Minneapolis, Minn. Wheelbarrows. No. 143,833; June 7; v. 287; p. 194.
- Pugh, Charles H., Limited, Birmingham, England. Carburetors for internal-combustion engines. No. 145,441; Aug. 2; v. 289; p. 181.
- Pugh, Charles H., Limited, Birmingham, England. Driving-chain for cycles and motorcycles. No. 147,513; Oct. 18.
- Pulaski Company, The, Pulaski, Pa. Non-alcoholic non-cereal maltless beverages and syrups therefor. No. 139,189; Jan. 25; v. 282; p. 735.
- Pulvola Chemical Company, Jersey City, N. J. Medicinal preparations. No. 139,870; Feb. 22; v. 283; p. 754.
- Pumpless Blow Torch Company, Pittsburgh, Pa. Blow-torches and gas-heaters. No. 148,220; Nov. 8.
- Purdy, James S., Los Angeles, Calif. Soap and soap pastes. No. 147,389; Oct. 11.
- Pure Food Factory, "Hansa" Mamaroneck, N. Y. Bouillon cubes, vegetable and beef extracts, and mayonnaise salad-dressing, &c. No. 148,515; Nov. 15.
- Pure Food Specialties Company, The, Toledo, Ohio. Oleomargarin. No. 150,067; Dec. 27.
- Pure Oil Company, The, Columbus, Ohio. Oil for treatment of road-surfaces. No. 146,338; Sept. 6; v. 290; p. 202.
- Puritan Drug Company, Boston, Mass. Medical compound in pill form used for the bowels. No. 143,141; May 24; v. 286; p. 850.
- Puritan Drug Mfg. Co., The, Columbus, Ohio. Mucilage, adhesive tapes, liquid glue, and court-plaster. No. 147,812; Nov. 1.
- Puritan Drug Mfg. Co., The, Columbus, Ohio. Certain medicinal preparation. Nos. 149,207-8; Dec. 6.
- Puritan Drug Mfg. Co., The, Columbus, Ohio. Wood-polish for furniture, floors, &c. No. 150,068; Dec. 27.
- Puritan Ice Cream Co., Newark, N. J. Ice-cream. No. 148,516; Nov. 15.
- Puritan Mfg. Co., The, Toledo, Ohio. Certain garment-fastening device. No. 148,728; Nov. 22.
- Puritan Pharmaceutical Co., St. Louis, Mo. Toilet preparations. No. 139,190; Jan. 25; v. 282; p. 735.
- Puritan Pharmaceutical Co., St. Louis, Mo. Toilet preparations. No. 144,896; July 19; v. 288; p. 621.
- Puritan Products Co., Clinton, Ill. Poultry and stock medicines. No. 143,434; May 31; v. 286; p. 1052.
- Purity Confectionery Company, Boston, Mass. Confectionery—namely, chocolates and bonbons, &c. No. 142,097; May 3; v. 286; p. 189.
- Purity Oats Company, Branch of American Hominy Company, Davenport and Keokuk, Iowa. Oatmeal. No. 143,142; May 24; v. 286; p. 850.
- Puyallup & Summer Fruit Growers Canning Company, Puyallup, Wash. Fruit jam. No. 141,207; Apr. 12; v. 285; p. 383.
- Pyo-Rem Chemical Company, Kansas City, Mo. Liquid medicine for pyorrhea. No. 140,941; Mar. 29; v. 284; p. 947.
- Pyro-Non Paint Co. (See Johnston, George F., assignor.)
- Pyro Products Company, Chicago, Ill. Refractory cement used to bind fire-bricks. No. 141,208; Apr. 12; v. 285; p. 383.
- Q. T. Manufacturing Co., New York, N. Y. Preparation for prevention of venereal infections. No. 148,221; Nov. 8.
- Quaker Oats Company, The, Chicago, Ill. Corn flakes. No. 142,321; May 10; v. 286; p. 405.
- Quaker Oats Company, The, Chicago, Ill. Crushed oats, wheat hearts and flakes, oatmeal, &c. No. 143,143; May 24; v. 286; p. 850.
- Quaker Oats Company, The, Chicago, Ill. Wheat-flour and rolled oats. No. 148,222; Nov. 8.
- Quality Brands Company, The, Cleveland, Ohio. Glazing, roofing, and calking and waterproofing compounds. No. 143,435; May 31; v. 286; p. 1052.
- Quality Poultry Farm, Gresham, Oreg. Live poultry, day-old chicks, and hatching-eggs. No. 143,144; May 24; v. 286; p. 850.
- Queen City Bottling Company, The, Cincinnati, Ohio. Maltless, non-alcoholic beverage. No. 150,069; Dec. 27.
- Queen City Specialty Co., The, Cincinnati, Ohio. Cleaner and polish for automobiles, &c. No. 142,320; May 10; v. 286; p. 405.
- Queen City Turn Shoe Company, The, Cincinnati, Ohio. Shoes made of leather, rubber, fabric, and combinations of such materials. No. 145,574; Aug. 9; v. 289; p. 408.
- Queen Incubator Company, Lincoln, Nebr. Chicken incubators, brooders, and galvanized covers. No. 149,718; Dec. 20.
- Queens Pharmacal Co., Inc., New York, N. Y. Antiseptic ointment. No. 148,763; Nov. 22.
- Quick Tire Service, Inc., New York, N. Y. Tires and inner tubes. No. 141,209; Apr. 12; v. 285; p. 383.
- Quincy Show Case Works, Quincy, Ill. Candy show-cases. No. 139,694; Feb. 8; v. 283; p. 358.
- Quinlan, H. T., & Company, St. Paul, Minn. Canned goods, fish, teas, coffees. No. 141,210; Apr. 12; v. 285; p. 383.
- Quinlan, Kathleen M., New York, N. Y. Beauty-cream. No. 145,996; Aug. 23; v. 289; p. 789.
- Quinlan, Kathleen M., New York, N. Y. Toilet preparations. No. 145,997; Aug. 23; v. 289; p. 789.
- Quinn, George J., & Company, Inc., New York, N. Y. Various lines of piece goods. No. 148,517; Nov. 15.
- R. & B. Clothing Company. (See Raab Brothers, assignors.)
- R-W Company, The, Chicago, Ill. Air-washers. No. 143,736; June 7; v. 287; p. 187.
- R an W Hat Shop, Inc., Norwalk, Conn., and New York, N. Y. Hats and caps for men. No. 140,943; Mar. 29; v. 284; p. 947.
- R an W Hat Shop, Inc., Norwalk, Conn., and New York, N. Y. Hats and caps for men. No. 142,720; May 17; v. 286; p. 632.
- Raab Brothers, assignors to The R. & B. Clothing Company, Cincinnati, Ohio. Men's outer clothing. No. 140,942; Mar. 29; v. 284; p. 947.



*Alphabetical list of registrants of trade-marks—Continued.*

- Raabe & Bowman, Philadelphia, Pa. Cathartics and purgatives. No. 146,135; Aug. 30; v. 289; p. 1015.
- Raabe & Bowman, Philadelphia, Pa. Body-vermin destroyers. No. 147,390; Oct. 11.
- Racine, Jules, & Co., New York, N. Y. Watches and watch-movements. No. 144,627; July 12; v. 288; p. 425.
- Racine Rubber Company, Racine, Wis. Tires composed of rubber and fabric. No. 139,953; Feb. 22; v. 283; p. 760.
- Racine Rubber Company, Racine, Wis. Rubber or rubber and fabric tires and tubes for vehicles. Nos. 145,180-1; July 26; v. 288; p. 816.
- Racine Rubber Company, Racine, Wis. Tires composed of rubber and fabric. No. 145,788; Aug. 16; v. 289; p. 597.
- Radel Leather Manufacturing Co., Newark, N. J. Patent-leather. No. 141,644; Apr. 26; v. 285; p. 782.
- Radiford, William A., Chicago, Ill. Monthly magazine. No. 145,442; Aug. 2; v. 289; p. 181.
- Radio Bulb Company Inc., New York, N. Y. Glass reflectors for electric signs. No. 142,719; May 17; v. 286; p. 632.
- Radiol Laboratories, Cincinnati, Ohio. Ointment for eczema and other itching skin diseases, &c. No. 148,223; Nov. 8.
- Rador Co. Ltd. of London, New York, N. Y. Toilet preparations. No. 143,145; May 24; v. 286; p. 850.
- Rador Co. Ltd. of London, New York, N. Y. Skin-soap. No. 145,789; Aug. 16; v. 289; p. 597.
- Rador Co. Ltd. of London, New York, N. Y. Certain toilet preparations. No. 147,150; Oct. 4.
- Radium Oil Company, Cincinnati, Ohio. Lubricating oils. No. 148,518; Nov. 15.
- Raffel, J. M., Co., Baltimore, Md. Corrugated-fiber packages, folding boxes, and paper boxes. No. 149,606; Dec. 13.
- Rahman, Luthfar, Chicago, Ill. Hair-dressing. No. 146,286; Sept. 6; v. 290; p. 201.
- Rainbow Lawn Sprinkler Company, Jacksonville, Fla. Lawn-sprinklers. No. 149,719; Dec. 20.
- Rain-on-Tap Company. (See Sattelkau, Paul, assignor.)
- Rainier Products Company, Seattle, Wash. Maltless, non-alcoholic fruit beverage. No. 138,696; Jan. 4; v. 282; p. 189.
- Rain-Sun Vision Shield Co., Los Angeles, Calif. Sun and rain shields for automobiles. No. 146,497; Sept. 6; v. 290; p. 214.
- Raleigh Smokeless Fuel Company, Berkley, W. Va. Bituminous coal. No. 148,224; Nov. 8.
- Ramo Tire & Rubber Co., Pittsburgh, Pa. Pneumatic-tire shoes constructed of rubber and fabric and rubber inner tubes. No. 140,944; Mar. 29; v. 284; p. 948.
- Ramsey, Edward J., Brooklyn, N. Y. Shoes, oxfords, and sandals. No. 142,098; May 3; v. 286; p. 189.
- Ramspring Bumper Co., Chicago, Ill. Automobile-bumpers. No. 148,519; Nov. 15.
- Ramspring Bumper Co., Chicago, Ill. Automobile-bumpers. No. 149,209; Dec. 6.
- Randall, A. I., Inc., Rockland, Mass. Paper and stationery. No. 143,869; June 14; v. 287; p. 401.
- Randall, A. I., Inc., Rockland, Mass. Catalogues, book-lets, price-lists, and pamphlets. No. 145,004; July 19; v. 288; p. 628.
- Randall, Clide, Bartlett, Kans. Salve and ointment preparations. No. 146,850; Sept. 20; v. 290; p. 636.
- Randall, Maude O., Mrs., Cottonwood, Idaho. Cream salad-dressing. No. 148,225; Nov. 8.
- Randall-McLoughlin Co., Seattle, Wash. Insecticides useful in treatment of plants, vegetables, stock and poultry. No. 139,871; Feb. 22; v. 283; p. 754.
- Ranney-Davis Mercantile Company, The, Arkansas City, Kans. Canned fruits, vegetables, and fish, cereals, syrup, &c. No. 146,597; Sept. 13; v. 290; p. 422.
- Ransbottom Brothers Pottery Company, The, Roseville, Ohio. Stoneware and pottery. No. 144,262; June 28; v. 287; p. 776.
- Ransom & Randolph Company, The, Toledo, Ohio. Dental supplies. No. 138,851; Jan. 11; v. 282; p. 377.
- Rapp, Arthur R., Company, Chicago, Ill. Cover-paper. No. 139,191; Jan. 25; v. 282; p. 735.
- Rappaport, Max, Los Angeles, Calif. Hats and caps for men and boys. No. 141,606; Apr. 26; v. 285; p. 781.
- Rath Manufacturing Company, The, Philadelphia, Pa. Soaps and cleansers. No. 142,721; May 17; v. 286; p. 632.
- Rath Manufacturing Company, The, Philadelphia, Pa. Chocolate and vanilla corn-starch puddings. No. 143,721; June 7; v. 287; p. 186.
- Rath, Wilhelm, Niederterfing, Switzerland. Medicine for lung troubles, tuberculosis, asthma, &c. No. 146,598; Sept. 13; v. 290; p. 422.
- Rato Manufacturing Co., Superior, Nebr. Preparation for use in repairing leaks in radiators, water-jackets, and connections. No. 140,016; Mar. 1; v. 284; p. 174.
- Raton Creamery Company, Raton, N. Mex. Pure creamery-butter. No. 144,897; July 19; v. 288; p. 621.
- Rau Fastener Co., New York, N. Y. Snap-fasteners for gloves, caps, trunks, suspenders, pocketbooks, &c. No. 144,039; June 21; v. 287; p. 582.
- Rau, William F., Troy, N. Y. Chemical compound for frosting for electric-light bulbs. No. 140,295; Mar. 8; v. 284; p. 373.
- Raven, W., & Co. Ltd., Leicester, England. Dyed hosiery. No. 147,673; Oct. 25.
- Raw-Zema Co., Fremont, Nebr. Ointment for treatment of eczema and all skin diseases. No. 143,722; June 7; v. 287; p. 186.
- Rawleigh, W. T., Company, The, Freeport, Ill. Polish for painted, varnished, waxed, and similar surfaces. No. 145,790; Aug. 16; v. 289; p. 597.
- Rawleigh, W. T., Company, The, Freeport, Ill. Toilet preparations. No. 145,791; Aug. 16; v. 289; p. 597.
- Rawlings, H. P., Wall Paper Co., Chicago, Ill. Wall-paper. No. 144,625; July 12; v. 288; p. 425.
- Ray-Maling Co. Inc., Hillsboro, Oreg. Canned fruits, berries, and vegetables, fruit jams. No. 144,629; July 12; v. 288; p. 425.
- Ray Tire & Rubber Company, Chicago, Ill. Pneumatic tires and interliners. No. 141,645; Apr. 26; v. 285; p. 782.
- Raybestos Company, The, Bridgeport, Conn. Brake-linings. No. 149,795; Dec. 20.
- Raymond, George R., Salt Lake City, Utah. Refined elatrite used as a paint. No. 141,646; Apr. 26; v. 285; p. 782.
- Raymond Granite Company, Inc., San Francisco and Los Angeles, Calif. Certain construction materials. No. 147,244; Oct. 4.
- Raymond Granite Company, San Francisco and Los Angeles, Calif. Construction materials. No. 147,674; Oct. 25.
- Raymond, Le Roy, Ocean Park, Calif., assignor to A. Nebie and W. Denzel, New York, N. Y. Amusement devices. No. 142,099; May 3; v. 286; p. 189.
- Raymond, Roy A., Oakland, Calif. Cleaning compound for carpets, rugs, silks, &c. No. 148,935; Nov. 29.
- Raynor, Nicholas & Truesdell, New York, N. Y. Weekly publication. No. 145,792; Aug. 16; v. 289; p. 597.
- Rea, William Bryce, New York, N. Y. Candy and chewing-gum. No. 142,100; May 3; v. 286; p. 189.
- Reach, A. J., Company, Philadelphia, Pa. Golf-balls. No. 148,936; Nov. 29.
- Read Drug and Chemical Co., Baltimore, Md. Toilet preparations. No. 139,872; Feb. 22; v. 283; p. 754.
- Read Machinery Co., York, Pa. Bakers' machinery—namely, cake-mixers, dough-mixers, &c. No. 150,070; Dec. 27.
- Reade Manufacturing Company, Hoboken, N. J. Soldering-fluxes, (salts, fluids, and paste), tinning and dipping fluxes. No. 144,452; July 5; v. 288; p. 194.
- Reade Mfg. Co., The, Jersey City, N. J. Soldering fluids, soldering-paste, soldering-salts, tinning solution, and soldering-flux. No. 145,005; July 19; v. 288; p. 628.
- Realsilk Fabrics Corporation, New York, N. Y. Silk, cotton, &c., piece goods. No. 146,498; Sept. 6; v. 290; p. 215.
- Realsilk Fabrics Corporation, New York, N. Y. Hosiery and underwear of silk fabric for men and women. No. 146,499; Sept. 6; v. 290; p. 215.
- Reardon Company, The, St. Louis, Mo. Calcimine. No. 139,612; Feb. 8; v. 283; p. 353.
- Reardon Company, The, St. Louis, Mo. Cold-water paint. Nos. 139,613-4; Feb. 8; v. 283; p. 353.
- Reardon Company, The, St. Louis, Mo. Calcimine. No. 142,722; May 17; v. 286; p. 632.
- Reardon Company, The, St. Louis, Mo. Cold-water paint. No. 144,898; July 19; v. 288; p. 621.
- Rechsteiner Embroidery Company, Inc., Chicago, Ill. Embroideries or embroidered articles. No. 149,720; Dec. 20.
- Reckitts (U. S. A.), Ltd., New York, N. Y., and New Brunswick, N. J. Laundry blue. No. 140,945; Mar. 29; v. 284; p. 948.
- Re-cu-ma Medicine Co., Jacksonville, Fla. Indian root and herb medicine used as a general tonic. No. 139,873; Feb. 22; v. 283; p. 754.
- Red Ball Company, The, Madrid, Iowa. Certain chemical, medicinal, and toilet preparations. No. 147,151; Oct. 4.
- Red Ball Company, The, Madrid, Iowa. Maltless fruit beverages. No. 148,937; Nov. 29.
- Red Devil Patch Co., The, Hopkinsville, Ky. Sheet-rubber patches for inner tubes and tires for vehicles. No. 148,227; Nov. 8.
- Red Diamond Clothing Company, St. Louis, Mo. Overalls, jumpers, work and negligee shirts. No. 140,523; Mar. 15; v. 284; p. 585.
- Red-E Company, The, Columbus, Ohio. Camp stoves and ovens. No. 140,524; Mar. 15; v. 284; p. 585.
- Redhill Mfg. Co., Pittsburgh, Pa. Medicine for use in the treatment of indigestion and dyspepsia. No. 150,071; Dec. 27.
- Red Jacket Consolidated Coal and Coke Company, Red Jacket, W. Va. Coal and coke. No. 148,938; Nov. 29.
- Red-Pep Company, The, Plains, Ga. Non-alcoholic, non-cereal, maltless beverages and syrups therefor. No. 139,874; Feb. 22; v. 283; p. 755.
- Red Raven Corporation, The, Red Raven, Pa. Ginger-ale and sarsaparilla. No. 140,946; Mar. 29; v. 284; p. 948.
- Red Star Milling Company, The, Wichita, Kans. Wheat-flour. No. 140,947; Mar. 29; v. 284; p. 948.
- Red Star Milling Company, The, Wichita, Kans. Wheat-flour. No. 142,101; May 3; v. 286; p. 189.
- Red Star Milling Company, The, Wichita, Kans. Wheat-flour. No. 142,322; May 10; v. 286; p. 405.



- Red Star Milling Company, The, Wichita, Kans. Wheat-flour. No. 149,210; Dec. 6.
- Red Top Steel Post Company. (See Anderson, Brooke, assignor.)
- Red Wing Company Inc., The, Fredonia, N. Y. Apple cider, apple-juice, and grape-juice. No. 139,615; Feb. 8; v. 283; p. 353.
- Red Wing Company, Inc., The, Fredonia, N. Y. Foods. No. 140,017; Mar. 1; v. 284; p. 174.
- Red Wing Company, Inc., The, Fredonia, N. Y. Jellies and jams. No. 145,182; July 26; v. 288; p. 816.
- Red Wing Corporation Company, The, Dayton, Ohio. Dairy products. No. 149,488; Dec. 13.
- Redd, Ernest, Birmingham, Ala. Grain and horse feed. No. 148,226; Nov. 8.
- Redlands Heights Orchards, Ltd., Redlands, Calif. Fresh citrus fruits. No. 143,723; June 7; v. 287; p. 187.
- Redwine, William H., Pittsburgh, Pa. Certain articles of clothing. No. 144,040; June 21; v. 287; p. 582.
- Reece-Hilton, Inc., Troy, N. Y. Tire-pumps. No. 139,023; Jan. 18; v. 282; p. 555.
- Reece & McNeil, Zionville, N. C. Medicine used in the treatment of deafness, throat and ear troubles. No. 140,194; Mar. 8; v. 284; p. 367.
- Reed, Burns E., Supply Company, Brooklyn, N. Y. Polishing compositions. No. 145,228; Nov. 8.
- Reed & Carnrick, Jersey City, N. J. Medicine for phthisis, neurasthenia, constipation, &c. No. 148,939; Nov. 29.
- Reed & Thompson, San Francisco, Calif. Musical instruments. No. 142,724; May 17; v. 286; p. 632.
- Reed Tobacco Company, Richmond, Va. Cigarettes. No. 139,374; Feb. 1; v. 283; p. 171.
- Reeder, Samuel B., Washington, D. C. Board game. No. 142,102; May 3; v. 286; p. 190.
- Reedley Canning Co., Reedley, Calif. Canned fruits. Nos. 143,724-6; June 7; v. 287; p. 187.
- Reedley Canning Co., Reedley, Calif. Canned fruits. Nos. 145,793-4; Aug. 16; v. 289; p. 597.
- Reefer, E. J., Kansas City, Mo. Device for dispensing an insecticide for the elimination of moths. No. 142,103; May 3; v. 286; p. 190.
- Rees, Albert F., Penn township, Pa. Hides. No. 149,796; Dec. 20.
- Rees, Fred, Meriden, Conn. Safety-pins. No. 145,183; July 26; v. 288; p. 816.
- Rees, Herbert C., San Antonio, Tex. Eyeglasses and spectacles. No. 145,286; July 26; v. 288; p. 825.
- Reeves, Sewell A., Washington, D. C. Cakes, bread, pastry, and candy. No. 138,920; Jan. 11; v. 282; p. 382.
- Refinite Company, The, Omaha, Nebr. Machines and devices for effecting the softening of water. No. 140,948; Mar. 29; v. 284; p. 948.
- Refinite Company, The, Omaha, Nebr. Liquid-filters for commercial, &c., uses. No. 142,723; May 17; v. 286; p. 632.
- Refinite Company, The, Omaha, Nebr. House organ published at intervals. No. 144,041; June 21; v. 287; p. 582.
- Regal Hosiery Co., Reading, Pa. Hosiery. No. 140,670; Mar. 22; v. 284; p. 747.
- Regal Manufacturing Co., Kansas City, Mo. Insect-powder. No. 150,072; Dec. 27.
- Regal Silver Mfg. Co., The, New Haven, Conn. Table flat-ware. No. 144,628; July 12; v. 288; p. 425.
- Regal Silver Mfg. Co., The, New Haven, Conn. Knives and sharpening-steels. No. 145,575; Aug. 9; v. 289; p. 408.
- Regar, H. K., & Sons, Bridgeport, Pa. Men's, women's, and infants' hosiery. No. 145,576; Aug. 9; v. 289; p. 408.
- Regatta Manufacturing Co., Inc., Baltimore, Md. Woven cotton-fabric underwear for male wear. No. 145,577; Aug. 9; v. 289; p. 408.
- Regent Knitting Corporation, Syracuse, N. Y. Men's and boys' knitted caps. No. 149,211; Dec. 16.
- Rehm and Poole, New York, N. Y. Bank-checks. No. 146,340; Sept. 6; v. 290; p. 202.
- Rehn & Tousley, Lima, Ohio. Nutcrackers made of metal. No. 148,940; Nov. 29.
- Reho-Drug Manufacturing Company, Bartow, Fla. Medicinal preparation. No. 143,727; June 7; v. 287; p. 187.
- Reichman & Faust, New York, N. Y. Cosmetics. No. 139,192; Jan. 25; v. 282; p. 735.
- Reichman & Faust, New York, N. Y. Hair-nets. No. 144,042; June 21; v. 287; p. 582.
- Reichman & Faust, New York, N. Y. Hair-nets. No. 145,184; July 26; v. 288; p. 816.
- Reid, A. L., & Co., New York, N. Y. Cotton piece goods. No. 145,518; Aug. 2; v. 289; p. 186.
- Reid Bros., Seattle, Wash., and San Francisco, Calif. Hotwater bottles, icebags, invalid cushions, back-rests, &c. No. 148,520; Nov. 15.
- Reid, Harriet B., Memphis, Tenn. Hair growing and pressing preparations. No. 149,607; Dec. 13.
- Reid, Mrs. Mack F., Brinkley, Ark. Hair-growing preparation. No. 143,146; May 24; v. 286; p. 850.
- Reine, Lewis, San Francisco, Calif. Malt and hops syrup. No. 148,769; Nov. 22.
- Reinhart, K., Newark, N. J. Extract of vanilla for food flavoring. No. 149,721; Dec. 20.
- Reinhold Company, The, Cleveland, Ohio. Ladies' and misses' dresses and skirts. No. 142,725; May 17; v. 286; p. 632.
- Reis, Benedict, New York, N. Y. Waterproof oiled piece goods. No. 142,104; May 3; v. 286; p. 190.
- Reis, Robert, & Co., New York, N. Y. Undershirts and union-suits. No. 142,323; May 10; v. 286; p. 405.
- Reis, Robert, & Co., New York, N. Y. Clothing. No. 145,798; Aug. 16; v. 289; p. 597.
- Reis, Robert, & Co., New York, N. Y. Knitted and textile underwear and hosiery. No. 148,229; Nov. 8.
- Reisinger, Hugo, New York, N. Y. Electrical-resistance elements. No. 148,230; Nov. 8.
- Reither, George H. W., Brooklyn, N. Y. Medicine for coughs, colds, and bronchitis. No. 145,902; Aug. 16; v. 289; p. 603.
- Reitz-Farrar Company, Louisville, Ky., and Chicago, Ill. Dental supplies. Nos. 144,263-4; June 28; v. 287; p. 776.
- Reliable Fruit & Produce Co., Yakima, Wash. Fresh apples. No. 144,453; July 5; v. 288; p. 194.
- Reliance Manufacturing Company, Chicago, Ill. Work-shirts. No. 139,375; Feb. 1; v. 283; p. 171.
- Reliance Manufacturing Company, Chicago, Ill. Work-shirts. No. 142,105; May 3; v. 286; p. 190.
- Reliance Manufacturing Company, Chicago, Ill. Work-shirts. No. 148,941; Nov. 29.
- Reliance Trailer & Truck Co. Inc., San Francisco, Calif. Trailers. No. 140,527; Mar. 15; v. 284; p. 585.
- Reliance Trailer & Truck Co. Inc., San Francisco, Calif. Tractors. No. 140,949; Mar. 29; v. 284; p. 948.
- Relyea Soap Company, Louisville, Ky. Cleansing, bleaching, bluing, and stain-removing pulverized soap. No. 141,211; Apr. 12; v. 285; p. 383.
- Remar Company, The, Oakland, Calif. Ice-cream. No. 148,521; Nov. 15.
- Remien & Kuhnert Co., Chicago, Ill. Floor-varnish. No. 146,851; Sept. 20; v. 290; p. 636.
- Remington Arms Company. (See The Remington Arms Union Metallic Cartridge Co., assignor.)
- Remington Arms Union Metallic Cartridge Co., Inc., Bridgeport, Conn.; Ilion and New York, N. Y.; Swanton, Vt., and Hoboken, N. J., assignor to Remington Arms Company, Inc., New York, N. Y. Firearms and equipments therefor. No. 140,528; Mar. 15; v. 284; p. 585.
- Remington Arms Company, Inc., Bridgeport, Conn.; Ilion and New York, N. Y., and Swanton, Vt. Pocket-knives and bayonets. Nos. 142,106-7; May 3; v. 286; p. 190.
- Remington Arms Company, Inc., Bridgeport, Conn.; Ilion, N. Y.; Swanton, Vt.; and New York, N. Y. Pocket-knives. Nos. 143,436-8; May 31; v. 286; p. 1052.
- Remington Machine Company, Wilmington, Del. Ice-making and refrigerating machinery. No. 146,852; Sept. 20; v. 290; p. 637.
- Remington Motors, Inc., New York, N. Y. Automobiles. No. 147,675; Oct. 25.
- Remington Phonograph Corporation, New York, N. Y. Phonographs, phonograph records, phonograph-reproducers, &c. No. 139,616; Feb. 8; v. 283; p. 353.
- Remington Salt Company, Ithaca, N. Y. Salt. No. 139,024; Jan. 18; v. 282; p. 555.
- Remmers Soap Company, Cincinnati, Ohio. Toilet soap. No. 144,914; July 19; v. 288; p. 622.
- Remmert, William, St. Louis, Mo. Laundry-washing machines. No. 142,726; May 17; v. 286; p. 632.
- Removo Company, The, Syracuse, N. Y. Gray-hair restorer in the nature of a coloring. No. 148,522; Nov. 15.
- Remy Electric Company, Anderson, Ind. Dynamos, electric motors, switches, and ignition apparatus. No. 140,296; Mar. 8; v. 284; p. 373.
- Renken & Yates Smith, New York, N. Y. Grape-juice vermuth. No. 139,025; Jan. 18; v. 282; p. 555.
- Renneckar, Clarence E., Wilmette, Ill. Fluid for removing spots, cleaning wool, cotton, silk, and leather. No. 144,265; June 28; v. 287; p. 776.
- Renner Company, The, Youngstown, Ohio. Non-alcoholic beverage. No. 144,454; July 5; v. 288; p. 194.
- Reno, H. O., Company, The, Chicago, Ill. Monthly periodical. No. 144,043; June 21; v. 287; p. 582.
- Renovatol Company, Inc., Philadelphia, Pa. Preparation for taking grease and dirt out of leather and woven power-transmission belts, &c. No. 145,443; Aug. 2; v. 289; p. 181.
- Renovite Corporation, New York, N. Y. Dried, ready-mixed, and paste paints, varnish, &c. No. 149,723; Dec. 20.
- Repetti, New York, N. Y. Candy and caramels, chocolates, fruit tablets, &c. No. 139,376; Feb. 1; v. 283; p. 171.
- Republic Belting Company, Inc., Baltimore, Md. Leather and rubber belting. No. 146,339; Sept. 6; v. 290; p. 202.
- Republic Belting Company, Inc., Baltimore, Md. Fabric belting. No. 147,676; Oct. 25.
- Republic Druggist Syndicate Inc., New York, N. Y. Medicines. No. 139,026; Jan. 18; v. 282; p. 556.
- Republic Flow Meters Co., Chicago, Ill. Meters for measuring the flow of liquids. No. 145,185; July 26; v. 288; p. 816.
- Republic Match Company, Chicago, Ill. Impregnated matches. No. 149,489; Dec. 13.
- Requard, Edward F., Baltimore, Md. Cigars. Nos. 145,444-5; Aug. 2; v. 289; p. 181.
- Resbona Remedies Co., Johnstown, Pa. Preparation for gonorrhea and gleet. No. 140,195; Mar. 8; v. 284; p. 367.



*Alphabetical list of registrants of trade-marks—Continued.*

- Reis, Robert, & Co., New York, N. Y. Underwear, hosiery, &c. No. 150,073; Dec. 27.
- Reisner, W. H., Manufacturing Company, The, Hagerstown, Md. Minnow-nets. No. 150,074; Dec. 27.
- Reiss-Premier Pipe Company, Chicago, Ill. Smoking-pipes, cigar and cigarette holders, and smokers' articles. No. 149,722; Dec. 20.
- Retail Credit Men's Natl. Assn., St. Louis, Mo. Title for a periodical. No. 144,455; July 5; v. 288; p. 194.
- Retail Millinery Association of America, New York, N. Y. Trade publication. No. 148,231; Nov. 8.
- Retlaw Chemical Co., Inc., New York, N. Y. Carbon-removers in the nature of chemical preparations. No. 144,044; June 21; v. 287; p. 582.
- Reuss, Wm. J., Madison, Wis. Polishing materials. Nos. 147,441-2; Oct. 11.
- Revere Confectionery and Pop Corn Works, Inc., Farmington Center, Mass. Confectionery—namely, lollipops. No. 143,147; May 24; v. 286; p. 850.
- Revere Rubber Company, Providence, R. I. Rubber nipples. No. 144,456; July 5; v. 288; p. 194.
- Revere Rubber Company, Providence, R. I. Vehicle-tires made of rubber. No. 145,186; July 26; v. 288; p. 816.
- Revere Rubber Company, Providence, R. I. Vehicle-tires made of rubber. No. 145,795; Aug. 16; v. 289; p. 597.
- Rex Leather Goods Corporation, New York, N. Y. Leather brief-cases, music-rolls, valises, portfolios, and Boston bags. No. 144,266; June 28; v. 287; p. 776.
- Rex Metal Products Company, The, Brooklyn, N. Y. Pin and pen trays. No. 139,617; Feb. 8; v. 283; p. 353.
- Rex Relief Company, Maryville, Tenn. Medicinal preparation for treatment of colds and the liver. No. 139,027; Jan. 18; v. 282; p. 556.
- Rex Supply Company Inc., Oakland, Calif. Toilet tank ball-cocks and trough ball-cocks. No. 149,490; Dec. 13.
- Rexina Co. Inc., Philadelphia, Pa. Tracing fabrics. No. 142,108; May 3; v. 286; p. 190.
- Reynolds, Anna E., New York, N. Y. Cream for the complexion. No. 149,608; Dec. 13.
- Reynolds, Bion F., Brockton, Mass. Shoes made of leather, fabric, rubber, or combination of same. No. 149,212; Dec. 6.
- Reynolds Bros., Scranton, Pa. Writing fluid. No. 143,148; May 24; v. 286; p. 850.
- Reynolds Company, Limited, Vancouver, British Columbia, Canada. Shingles. No. 149,213; Dec. 6.
- Reynolds, S. A., Kansas City, Mo. Bakery products. No. 143,729; June 7; v. 287; p. 187.
- Rhea Manufacturing Company, Milwaukee, Wis. Women's aprons and bloomers. No. 147,881; Nov. 1.
- Rheinschild Chemical Co., New York, N. Y. Laxatives. No. 140,525; Mar. 15; v. 284; p. 585.
- Rhoads, J. E., & Sons, Philadelphia, Pa., and Wilmington, Del. Flat leather belting. No. 141,802; Apr. 26; v. 285; p. 792.
- Rhoads, J. E., & Sons, Philadelphia, Pa., and Wilmington, Del. Flat leather belting. No. 142,727; May 17; v. 286; p. 632.
- Rhoads, J. E., & Sons, Philadelphia, Pa., and Wilmington, Del. Flat leather belting. No. 144,006; July 19; v. 288; p. 628.
- Rhoads, J. E., & Sons, Philadelphia, Pa., and Wilmington, Del. Leather belting. No. 145,187; July 26; v. 288; p. 816.
- Rhodes, John M., Chicago, Ill. Packing. No. 144,903; July 19; v. 288; p. 622.
- Rhodes, M. M., & Sons Co., Taunton, Mass. Shoe-laces. No. 141,821; Apr. 26; v. 285; p. 784.
- Rhodes Manufacturing Company, The, St. Louis, Mo. Mechanical razor-strops. No. 141,423; Apr. 19; v. 285; p. 568.
- Rhotanium Company, The, Cleveland, Ohio. Instruments and appliances of particular metals for laboratories. Nos. 144,457-8; July 5; v. 288; pp. 194-5.
- Rialto Clothing Co., Inc., The, New York, N. Y. Articles of clothing. No. 143,439; May 31; v. 286; p. 1052.
- Rialto Shoe Co., Lynn, Mass. Women's shoes, pumps, and slippers. No. 145,796; Aug. 16; v. 289; p. 597.
- Rice, A. H., Company, Pittsfield, Mass. Braids and trimmings. No. 143,440; May 31; v. 286; p. 1052.
- Rice & Adams Corporation, Buffalo, N. Y. Certain receptacle and metal-parts washers and milk-bottle fillers, cappers, and pasteurizers. No. 148,233; Nov. 8.
- Rice Chocolate Company, Boston, Mass. Candy. No. 148,234; Nov. 8.
- Rice, Irving W., New York, N. Y. Hair-nets. No. 148,235; Nov. 8.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton piece goods. No. 139,377; Feb. 1; v. 283; p. 171.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Clothing. No. 141,803; Apr. 26; v. 285; p. 792.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Misses' and children's dresses, middie-blouses, and ladies' waists. No. 142,728; May 17; v. 286; p. 632.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Cambrics in the piece. No. 143,730; June 7; v. 287; p. 187.
- Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton piece goods. No. 146,659; Sept. 13; v. 290; p. 429.
- Rice's, Bernard, Sons, New York, N. Y. Sterling and plated flat and hollow silverware and articles of jewelry. No. 148,523; Nov. 15.
- Rich Tool Company, Chicago, Ill. Rivet-sets. No. 142,741; May 17; v. 286; p. 633.
- Richard Bros. Die Works, Detroit, Mich. Metal-working machinery and tools. No. 139,028; Jan. 18; v. 282; p. 556.
- Richard, C. B., & Company, New York, N. Y. Prints and illustrations. No. 140,018; Mar. 1; v. 284; p. 174.
- Richard Hudnut, New York, N. Y. Soap. No. 144,583; July 12; v. 288; p. 424.
- Richards, Boyd R., Winchester, Va. Barreled fresh apples. No. 139,618; Feb. 8; v. 283; p. 353.
- Richards, James E., Company, The, Dayton, Ohio. White duck and drill clothing. No. 144,267; June 28; v. 287; p. 776.
- Richardson Corporation, Rochester, N. Y. Root-beer syrup and root-beer made from such syrup. No. 145,519; Aug. 2; v. 289; p. 186.
- Richardson Corporation, Rochester, N. Y. Cocoa syrup used in making soft drinks. No. 148,942; Nov. 29.
- Richardson Dry Goods Co., St. Joseph, Mo. Knitted, netted, and textile fabrics. No. 139,619; Feb. 8; v. 283; p. 353.
- Richardson Dry Goods Co., St. Joseph, Mo. Embroideries, dress-trimmings. No. 140,196; Mar. 8; v. 284; p. 367.
- Richardson, Frederick E., New York, N. Y. Ice-cream and meringue powders. No. 148,730; Nov. 22.
- Richardson Lubricating Company, Quincy, Ill. Lubricating oils and greases and axle-grease. No. 146,599; Sept. 13; v. 290; p. 422.
- R. chartz, Matthew, New York, N. Y. Food-salt for diabetes. No. 147,152; Oct. 4.
- Riches, River & Co., Elizabeth, N. J., and New York, N. Y. Calcium compounds. No. 146,840; Sept. 20; v. 290; p. 636.
- Richland Milling Company, Belleville, Ill. Wheat-flour. No. 146,853; Sept. 20; v. 290; p. 637.
- Richmond Broom Company, Inc., Richmond, Va. Brooms. No. 150,077; Dec. 27.
- Richmond-Chase Company, San Jose, Calif. Canned fruits and vegetables. No. 140,197; Mar. 8; v. 284; p. 367.
- Richmond Chase Company, San Jose, Calif. Canned fruits. No. 145,578; Aug. 9; v. 289; p. 408.
- Richmond Radiator Company, New York, N. Y. Enameled and metallic bathtubs, lavatories, sinks. No. 142,729; May 17; v. 286; p. 632.
- Richmond Radiator Company, New York, N. Y. Non-electrical heating and cooking apparatus and accessories thereof. No. 142,730; May 17; v. 286; p. 632.
- Richmond Radiator Company, New York, N. Y. Electric vacuum-cleaners, stationary and portable. No. 144,459; July 5; v. 288; p. 195.
- Richter Bros., Hartford, Conn. Insecticides. No. 146,341; Sept. 6; v. 290; p. 202.
- Richter, Gustav F., Brooklyn, N. Y. Mouth-gags. No. 149,797; Dec. 20.
- Richheimer, Isaac D., New York, N. Y. Coffee. No. 150,076; Dec. 27.
- Rico Milk Products Company, East Troy, Wis. Evaporated cream. No. 140,441; May 31; v. 286; p. 1052.
- Rico Milk Products Company, East Troy, Wis. Condensed, evaporated, and powdered milks. No. 146,049; Aug. 23; v. 289; p. 794.
- Riddle, Edward N., Co., The, Toledo, Ohio. Electric-lighting fixtures and lamps, shades, globes, &c. Nos. 139,193-4; Jan. 25; v. 282; p. 735.
- Ridgaway, William H., Baltimore, Md. Non-alcoholic, maltless beverage, and syrup therefor. No. 143,442; May 31; v. 286; p. 1052.
- Ridge Mills Inc., Gastonia, N. C. Cotton yarns. No. 144,045; June 21; v. 287; p. 582.
- Riedel & Co., Inc., New York, N. Y. Medicinal preparation for rheumatism, &c. No. 142,109; May 3; v. 286; p. 190.
- Rieger & Gretz Brewing Company, Philadelphia, Pa. Cereal non-intoxicating malt beverage. No. 142,110; May 3; v. 286; p. 190.
- Ries, George F., Chicago, Ill. Coloring for meats and meat products. No. 139,378; Feb. 1; v. 283; p. 171.
- Riesener Chocolate Co., San Francisco, Calif. Chocolate candies. No. 148,236; Nov. 8.
- Rieser Company, The, New York, N. Y. Hair-nets. No. 149,214; Dec. 6.
- Rikkers Bros. Inc., New York, N. Y. Scissors. No. 148,524; Nov. 15.
- Rikkers Brothers, Inc., New York, N. Y. Lead copying and color pencils. No. 140,671; Mar. 22; v. 284; p. 747.
- Riley, Clarissa L., Canton, Miss. Hair-tonic. No. 147,020; Sept. 27; v. 290; p. 805.
- Rimané, Incorporated, New York, N. Y. Toilet preparations. No. 143,149; May 24; v. 286; p. 850.
- Rincones, P. R., Jr., Company, Inc., New York, N. Y. Refrigerators. No. 142,731; May 17; v. 286; p. 633.
- Rincones, P. R., Jr., Co. Inc., New York, N. Y. Mercury injection. No. 148,707; Nov. 22.
- Ring, John A., York, Pa. Maltless soft drink. No. 149,609; Dec. 13.
- Riordon Company, Limited, Montreal, Quebec, Canada. Certain construction materials. No. 149,215; Dec. 6.
- Riordon Pulp & Paper Company Limited, Montreal, Quebec, Canada. Bleached and unbleached sulfite pulp. No. 141,424; Apr. 19; v. 285; p. 568.
- Ripon Shirtwaist Company, Ripon, Wis. Ladies' waists. No. 148,237; Nov. 8.



- Rippenbein, Nicholas, New York, N. Y. Digestive medicine. No. 146,134; Aug. 30; v. 289; p. 1015.
- Rite-Wate Medicine Co., Detroit, Mich. Fat-reducing remedy. No. 147,153; Oct. 4.
- Ritz Soap Co. Inc., Jersey City, N. J. Soap. No. 138,697; Jan. 4; v. 282; p. 189.
- Riveroyll & Guzman Company, San Antonio, Tex. Preparation for the treatment of tired feet, rheumatism, and nervous pains. No. 147,021; Sept. 27; v. 290; p. 805.
- Riverside Paint & Varnish Company, Boston, Mass. Adhesives, cements, and glues. No. 142,111; May 3; v. 286; p. 190.
- Rivet-O Manufacturing Company, Orange, Mass. Moisteners, mucilage-applying devices, inkwells, &c. No. 144,899; July 19; v. 288; p. 621.
- Rix Manufacturing Company, Dayton, Ohio. Water-softener. No. 149,798; Dec. 20.
- Roach, W. R., & Company, Hart, Mich. Canned vegetables. Nos. 140,950-2; Mar. 29; v. 284; p. 948.
- Robbins, Charles H., Philadelphia, Pa. Blue and brown print papers and cloths, drawing instruments, &c. No. 146,344; Sept. 6; v. 290; p. 202.
- Robbins, George W. D., Pasadena, Calif. Ointment for treatment of hemorrhoids. No. 149,216; Dec. 6.
- Robbins & Myers Company, The, Springfield, Ohio. Electric fans, motors, and generators. No. 143,870; June 14; v. 287; p. 402.
- Robbins & Schwartz, New York, N. Y. Hair-nets. No. 141,666; Apr. 26; v. 285; p. 783.
- Rober, Lewis J., Minneapolis, Minn. Game-ball. Nos. 150,078-9; Dec. 27.
- Robert, J., Paris, France. Medicinal preparation for injection into the veins to combat tuberculosis. No. 141,647; Apr. 26; v. 285; p. 782.
- Robert, Joseph, Paris, France. Medicinal preparation. No. 146,342; Sept. 6; v. 290; p. 202.
- Roberts, G. G., Corporation, Whitman, Mass. Cut tacks. No. 145,188; July 26; v. 288; p. 816.
- Roberts, G. G., Corporation, Whitman, Mass. Channel-nails. No. 149,611; Dec. 13.
- Roberts & Mander Stove Company, Philadelphia, Pa. Stoves, ranges, furnaces, heaters, and parts thereof. No. 139,095; Jan. 18; v. 282; p. 560.
- Roberts and Schaefer Company, Chicago, Ill. Marcus horizontal picking-table screen. No. 145,287; July 26; v. 288; p. 825.
- Roberts, W. F., Company, Inc., Washington, D. C. Printed and engraved matter. No. 149,217; Dec. 6.
- Roberts, W. M., Chicago, Ill. Medical preparation for the treatment of asthma. No. 147,154; Oct. 4.
- Robertson, B. L., Manassas, Va. Wheat-flour. No. 144,531; July 5; v. 288; p. 199.
- Robertson, Bolling L., Manassas, Va. Stock feeds. No. 147,677; Oct. 25.
- Robertson-Cole Company, New York, N. Y. Motion-pictures. No. 144,460; July 5; v. 288; p. 195.
- Robertson, J. T., Co., The, Hartford, Conn. Soaps. No. 145,446; Aug. 2; v. 289; p. 181.
- Robertson, James, & Sons, Preserve Manufacturers, Limited, Paisley, Scotland. Marmalade. No. 143,443; May 31; v. 286; p. 1052.
- Robertson, James L., & Sons, Inc., New York, N. Y. Planimeters. No. 139,096; Jan. 18; v. 282; p. 560.
- Robertson, L. F., & Sons, New York, N. Y. Leather. No. 140,953; Mar. 29; v. 284; p. 948.
- Robertson, Ledlie, Ferguson & Co. Limited, Belfast, Ireland. Articles of clothing. No. 142,112; May 3; v. 286; p. 190.
- Robertson & Sons Shoe Repairers, Inc., New York, N. Y. Repair-patch of molded and sheet rubber for rubber footwear. No. 147,391; Oct. 11.
- Robertson, Sylvia S., Clear Lake, Iowa. Women's outer dresses. No. 141,431; Apr. 19; v. 285; p. 568.
- Robertson, V. Otis, Boston, Mass. Non-alcoholic beverages and syrups for making same. No. 150,080; Dec. 27.
- Robertson & Watson, Evanston, Ill. Candy. No. 148,238; Nov. 8.
- Robin, Charles G., New York, N. Y. Electrical supplies and fixtures. No. 139,727; Feb. 15; v. 283; p. 541.
- Robin, Jacob I., New York, N. Y. Lamps, gas-burners, mantles, &c. No. 142,113; May 3; v. 286; p. 190.
- Robins, Bunyan, Richmond, Va. Hair-dressing of the petroleum-jelly type. No. 144,046; June 21; v. 287; p. 582.
- Robins, Bunyan, Richmond, Va. Liniment. No. 144,461; July 5; v. 288; p. 195.
- Robins, Max, Chicago, Ill. Non-alcoholic maltless beverages. No. 145,288; July 26; v. 288; p. 825.
- Robinson, A. M., Company, Atlanta, Ga. Cotton piece goods. No. 146,601; Sept. 13; v. 290; p. 422.
- Robinson, A. M., Company, Atlanta, Ga. Cotton piece goods. No. 148,731; Nov. 22.
- Robinson, David, Brooklyn, N. Y. Ammonia. No. 148,732; Nov. 22.
- Robinson, Edward P., New York, N. Y. Certain medicinal preparation. No. 148,733; Nov. 22.
- Robinson Hardware Co., Gilroy, Calif. Iron surface-irrigation pipe and well-casing. No. 140,054; Mar. 1; v. 284; p. 178.
- Robinson Manufacturing Co., Westfield, Mass. Memorandum-books and fillers therefor. No. 146,343; Sept. 6; v. 290; p. 202.
- Robinson-Rodgers Co., Newark, N. J. Tufted pillows, cushions, and mattresses. No. 139,379; Feb. 1; v. 283; p. 171.
- Robinson Straus & Co., St. Paul, Minn. Hats for women, misses, and children, and hat-frames. No. 145,584; Aug. 9; v. 289; p. 408.
- Robinson Straus & Co., St. Paul, Minn. Hats and hat-frames. No. 145,827; Aug. 16; v. 289; p. 598.
- Robinson, Will B., M. D., Mount Gilead, Ohio. Medicinal preparation. No. 148,239; Nov. 8.
- Roblin-Demerath Co., Rochester, N. Y. Foods. No. 139,029; Jan. 18; v. 282; p. 556.
- Robson Leather Company, Limited, The, Oshawa, Ontario, Canada. Leather. No. 141,425; Apr. 19; v. 285; p. 568.
- Roché, Georges, administrator. (See Etablissements Poulenc Frères.)
- Rochester Germicide Company, Rochester, N. Y. Paper towels and toilet-paper. No. 139,875; Feb. 22; v. 283; p. 755.
- Rochfort, Alexander E., San Francisco, Calif. Fly-killers and flycatchers. No. 146,600; Sept. 13; v. 290; p. 422.
- Rock Plaster Corporation of New York. (See International Rock Plaster Company, assignor.)
- Rockford Metal Specialty Company, Rockford, Ill. Can-openers, apple-coreers, cake-turners, &c. No. 144,462; July 5; v. 288; p. 195.
- Rockford Milling Machine Company, Rockford, Ill. Calculating-machines. No. 149,610; Dec. 13.
- Rockhill & Victor, New York, N. Y. Olive-oil and mixture of olive-oil with other vegetable oils. No. 148,240; Nov. 8.
- Rockland and Rockport Lime Corporation, Rockland, Me. Land-lime. No. 138,852; Jan. 11; v. 282; p. 277.
- Rockland and Rockport Lime Corporation, Rockland, Me. Hydrated lime. No. 141,648; Apr. 26; v. 285; p. 782.
- Rodd Company, The, Pittsburgh, Pa. Construction material. No. 138,854; Jan. 11; v. 282; p. 377.
- Rodgers, Joseph, Inc., New York, N. Y. Misses' and ladies' suits, coats, and dresses. No. 147,392; Oct. 11.
- Rodier, E., & Cie., Paris and Courbevoie, France. Perfumes, toilet creams, hair-lotions, dentifrices, &c. No. 148,708; Nov. 22.
- Rodriguez, Justo J., Scranton, Pa. Face powders and creams, face-powder compacts, and perfumes. No. 147,022; Sept. 27; v. 290; p. 805.
- Rodriguez, Valentin, New York, N. Y. Spanish paprika. No. 147,023; Sept. 27; v. 290; p. 805.
- Rodriguez, Valentin, New York, N. Y. Spanish paprika. No. 149,491; Dec. 13.
- Rodriguez, Valentin, New York, N. Y. Spanish paprika. Nos. 150,081-2; Dec. 27.
- Rodriguez, Valentin, New York, N. Y. Spanish paprika. No. 150,150; Dec. 27.
- Rodstein & Hyman, New York, N. Y. Silk and cotton ribbons in the piece. No. 145,189; July 26; v. 288; p. 816.
- Roe, A. V., & Co., Limited, London, England. Tools. Nos. 140,954-5; Mar. 29; v. 284; p. 948.
- Roe, A. V., & Co. Limited, London, England. Motor-cars, parts, and accessories. No. 141,426; Apr. 19; v. 285; p. 568.
- Roe, A. V., & Co., Limited, London, England. Motor-cars and accessories. No. 142,732; May 17; v. 286; p. 633.
- Roebuck, James T., Newman, Ga. Liquid wax for waxing sewing-thread. No. 145,799; Aug. 16; v. 289; p. 597.
- Roelly Chemical Co., Inc., New York, N. Y. Finger-nail polish, talcum powder, &c. No. 143,444; May 31; v. 286; p. 1052.
- Roentgen Appliance Company, San Francisco, Calif. Apparatus for maintaining constant current on Coolidge tubes. No. 142,389; May 10; v. 286; p. 410.
- Roeser, Ferdinand J., Rochester, N. Y. Concentrated barley-malt for use in beverages. No. 145,190; July 26; v. 288; p. 816.
- Roessel, Louis, & Co., Inc., New York, N. Y. Crepe and silk in the piece. No. 149,218; Dec. 6.
- Roessner, Ena, Chicago, Ill. Hair-curlers in the nature of metallic clips. No. 142,324; May 10; v. 286; p. 406.
- Rogers, Charles P., & Co. Inc., New York, N. Y. Bed springs, mattresses, pillows. No. 150,083; Dec. 27.
- Rogers Company, The, Tacoma, Wash. Peanut-oil for use as a salad-dressing and other culinary purposes. No. 144,901; July 19; v. 288; p. 621.
- Rogers, Company, The, Tacoma, Wash. Vegetable oils and a combination of vegetable oils and animal fats for food purposes. No. 146,854; Sept. 20; v. 290; p. 637.
- Rogers, John W., Washington, D. C. Medicine used in the treatment of indigestion and stomach troubles. No. 138,921; Jan. 21; v. 282; p. 382.
- Rogers, Joseph D., Paterson, N. J. Silk yarns. No. 145,192; July 26; v. 288; p. 816.
- Rogers, Lunt & Bowlen Company, Greenfield, Mass. Flat and hollow ware and jewelry. No. 145,191; July 26; v. 288; p. 816.
- Rogers & Madison Trunk Corporation, Petersburg, Va. Trunks, suitcases, and traveling-bags. No. 147,733; Oct. 25.
- Rogers Peet Company, New York, N. Y. Men's leather shoes. No. 142,316; May 10; v. 286; p. 405.
- Rogers Peet Company, New York, N. Y. Men's and boys' knitted underwear. No. 143,433; May 31; v. 286; p. 1052.



- Rogers, Simeon L. & George H., Company, Hartford, Conn. Silver-plated flat and hollow ware. No. 148,599; Nov. 15.
- Rogers, W. H., Co., Chicago, Ill. Ladies' ready-to-wear petticoats, skirts, and bloomers. Nos. 147,393-4; Oct. 11.
- Rohe & Brother, New York, N. Y. Smoked meats. No. 143,731; June 7; v. 287; p. 187.
- Rolle, John B., Minneapolis, Minn. Onion extract and garlic extract for food-flavoring. No. 139,620; Feb. 8; v. 283; p. 353.
- Rolling Tooth Brush Company, Boston, Mass., and Montclair, N. J. Toilet soap. No. 147,395; Oct. 11.
- Rollup Screen Company. (See Perfected Rolling Window Screen Co., assignor.)
- Roma, Lewis, Toledo, Ohio. Hair-tonic. No. 140,201; Mar. 8; v. 284; p. 367.
- Roman Meal Company, North Tonawanda, N. Y. Cereal compound. No. 142,895; May 17; v. 286; p. 641.
- Romanjo Tire Company, Chicago, Ill. Rubber automobile and truck tires and inner tubes. No. 141,056; Apr. 5; v. 285; p. 187.
- Romano, Guglielmo F., New York, N. Y. Dyes. No. 145,520; Aug. 2; v. 289; p. 186.
- Rood Candy Co., The, Pueblo, Colo. Candy, peanut-butter, and marshmallow sundae. No. 146,345; Sept. 6; v. 290; p. 202.
- Roos, Henry W., Cincinnati, Ohio. Adjustable shores. No. 149,493; Dec. 13.
- Roosa & Ratliff Chemical Co., Cincinnati, Ohio. Toilet preparations. No. 138,855; Jan. 11; v. 282; p. 377.
- Root & Company, Chicago, Ill. Phonographs, graphophones, and talking-machines. No. 146,136; Aug. 30; v. 289; p. 1015.
- Roper, Geo. D., Corporation, Rockford, Ill. Various types of pumps, comprising farm, rotary, well, lubricating, and general pumps. No. 140,198; Mar. 8; v. 284; p. 367.
- Roper, Geo. D., Corporation, Rockford, Ill. Pumps and parts thereof. No. 150,084; Dec. 27.
- Rose Brothers Co., Lancaster, Pa. Umbrellas and parasols. No. 141,048; Mar. 29; v. 284; p. 953.
- Rose and Company, New York, N. Y. Magazines and pamphlets published monthly. No. 149,219; Dec. 6.
- Rose Drug Company, Vicksburg, Miss. Liquid medicinal preparation for the treatment of the liver and kidneys. No. 145,800; Aug. 16; v. 289; p. 597.
- Rose Products Company, Wilkingsburg, Pa., and Warren, Ohio. Furniture-polish for automobiles, &c. No. 139,621; Feb. 8; v. 283; p. 353.
- Rose, Randolph, New York, N. Y. Bulletins published weekly. No. 139,195; Jan. 25; v. 282; p. 735.
- Rose Valley Company, The, Philadelphia, Pa. Music-rolls for player-pianos. No. 141,427; Apr. 19; v. 285; p. 568.
- Roseman, George, Philadelphia, Pa. Molasses. No. 140,199; Mar. 8; v. 284; p. 367.
- Rosen, Julius, Kansas City, Mo. Liniment. No. 142,114; May 3; v. 286; p. 190.
- Rosenau Bros. Inc., Philadelphia, Pa. Children's dresses, rompers, and suits. No. 143,732; June 7; v. 287; p. 187.
- Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, pants, and overcoats. No. 148,525; Nov. 15.
- Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, pants, and overcoats. No. 148,709; Nov. 22.
- Rosenberg, D., & Co., New York, N. Y. Ladies' and misses' underwear of textile fabric. No. 143,734; June 7; v. 287; p. 187.
- Rosenberg, David L., Boston, Mass. Petticoats and ladies' bloomers and knickerbockers. No. 141,430; Apr. 19; v. 285; p. 568.
- Rosenberg, Harry, New York, N. Y. Raincoats. No. 148,526; Nov. 15.
- Rosenberg, Hugo, Freiburg, (Baden), Germany. Tuberculosis-vaccin. No. 149,799; Dec. 20.
- Rosenblatt, A., Sons & Co., Philadelphia, Pa. Children's dresses. No. 140,529; Mar. 15; v. 284; p. 585.
- Rosenblatt, Louis, St. Louis, Mo. Certain musical instruments. No. 142,733; May 17; v. 286; p. 633.
- Rosenbloom, Louis, Rockland, Me. Candy. No. 143,733; June 7; v. 287; p. 187.
- Rosenblum, Samuel, New York, N. Y. Tassels, fringes, braids, artificial flowers, &c. No. 142,115; May 3; v. 286; p. 190.
- Rosenfeld, Joseph A., Philadelphia, Pa. Pattern-marking machine. No. 149,724; Dec. 20.
- Rosenfeld, M. C., Company, Boston, Mass. Malt extract used as an ingredient of food. No. 148,241; Nov. 8.
- Rosenfeld, Louis, Chicago, Ill. Tonic for building up and purifying the system. No. 147,396; Oct. 11.
- Rosengart, Lucien, Paris, France. Electric lights and more particularly, electrical lamps for bicycles and motorcycles. No. 140,956; Mar. 29; v. 284; p. 948.
- Rosenstein, Hugo, New York, N. Y. Toy airplanes. No. 144,269; June 28; v. 287; p. 776.
- Rosenstein, Jacob, New York, N. Y. Wheat-flour. No. 144,915; July 19; v. 288; p. 622.
- Rosenthal, A. S., Co., New York, N. Y. Silk piece goods. No. 143,445; May 31; v. 286; p. 1052.
- Rosenthal, A. S., Company, New York, N. Y. Silk piece goods. No. 144,268; June 28; v. 287; p. 776.
- Rosenthal, A. S., Company, New York, N. Y. All-silk crepe piece goods. No. 145,447; Aug. 2; v. 289; p. 181.
- Rosenthal, Henry S., New York, N. Y. Bindings of cotton, silk, and wool. No. 142,734; May 17; v. 286; p. 633.
- Rosenthal, Maurice, San Francisco, Calif. Certain articles of clothing. No. 145,801; Aug. 16; v. 289; p. 597.
- Rosenthal, Moses, Oakland, Calif. Cake. No. 145,448; Aug. 2; v. 289; p. 181.
- Rosenthal & Targoff, Inc., New York, N. Y. Dresses, cloaks, and suits. No. 148,527; Nov. 15.
- Rosenwald & Weil, Inc., Chicago, Ill. Overcoats, raincoats, pants and vests. No. 148,943; Nov. 29.
- Rosevear, William B., Jr., Detroit, Mich. Seeds, shrubs, plants, trees. No. 142,735; May 17; v. 286; p. 633.
- Ross, Alexander, Wheeling, W. Va. Medicinal preparation. No. 144,270; June 28; v. 287; p. 776.
- Ross & Company, Brooklyn, N. Y. Spectacle frames and rims made wholly or in part of celluloid. No. 148,734; Nov. 22.
- Ross-Gould List & Letter Co., St. Louis, Mo. Filing-receptacles. No. 139,467; Feb. 1; v. 283; p. 177.
- Ross, John D., Pasadena, Calif. Sprinkler-nozzles. No. 147,245; Oct. 4.
- Ross, Sydney, Company Inc., The, Newark, N. J., and New York, N. Y. Talcum powder. No. 148,716; Nov. 22.
- Rossendale-Reddaway Belting and Hose Co., The, Newark, N. J. Beltings. No. 140,200; Apr. 8; v. 284; p. 367.
- Roth, Adam, Grocery Company, St. Louis, Mo. Coffee. No. 141,649; Apr. 26; v. 285; p. 782.
- Roth Coal Company, Inc., The, New York, N. Y. Coal. No. 149,725; Dec. 20.
- Roth, Frank, Taylor, Pa. Leather, canvas, &c., shoes. No. 140,672; Mar. 22; v. 284; p. 747.
- Roth, George W., Minneapolis, Minn. Leather and rubber fabric dressing and mohair-dressing. No. 139,876; Feb. 22; v. 283; p. 755.
- Rothchild, Louis, Philadelphia, Pa. Spare-tire carriers. No. 147,678; Oct. 25.
- Rothkowitz, Isaiah, New York, N. Y. Camisoles, brassières, &c. No. 140,530; Mar. 15; v. 284; p. 585.
- Rothstein, Hugo, St. Louis, Mo. Medicamental tablets. No. 148,944; Nov. 29.
- Rothstein, Maurice, assignor to Johnstown Bottling Company, Inc., Johnstown, Pa. Ginger-ale. No. 144,463; July 5; v. 288; p. 195.
- Roughrider Clothes Co., Inc., New York, N. Y. Men's and boys' suits, coats, vests, &c. No. 140,202; Mar. 8; v. 284; p. 367.
- Round Hill Milling Company, The, Round Hill, Va. Wheat-flour. No. 142,736; May 17; v. 286; p. 633.
- Roundy, Peckham & Dexter Co., Milwaukee, Wis. Tea and coffee. No. 146,855; Sept. 20; v. 290; p. 637.
- Rounick, Max, Philadelphia, Pa. Hosiery for men, women, and children. No. 148,945; Nov. 29.
- Rouss, Charles Broadway, Inc., New York, N. Y. Men's shirts. No. 139,698; Feb. 8; v. 283; p. 358.
- Roussel, Maurice, Paris, France. Perfumes, toilet waters, face-lotions, beauty-creams, &c. No. 148,735; Nov. 22.
- Rovegno, Charles W., Brooklyn, N. Y. Medicinal preparations. No. 144,464; July 5; v. 288; p. 195.
- Rowe Calk & Chain Company, The, Southington, Conn. Lifting-jacks. No. 140,203; Mar. 8; v. 284; p. 367.
- Rowe Calk & Chain Company, The, Plantsville, Conn. Traction devices for use on automobile-wheels. No. 145,193; July 26; v. 288; p. 816.
- Royal Baking Powder Company, Jersey City, N. J., and New York, N. Y. Baking-powder. No. 148,736; Nov. 22.
- Royal Pharmaceutical & Perfumery Co. Inc., New York, N. Y. Bath powder or salt. No. 142,116; May 3; v. 286; p. 190.
- Royal Typewriter Company Inc., New York, N. Y. Typewriting-machines and parts thereof. No. 142,117; May 3; v. 286; p. 190.
- Royce, Antoinette, Brooklyn, N. Y. Solution for chapped hands and faces. No. 148,242; Nov. 8.
- Royce, Herman C., Hershman, Pa. Egg substitute. No. 139,030; Jan. 18; v. 282; p. 556.
- Royersford Foundry & Machine Co., Royersford, Pa. Roller-bearings. No. 145,289; July 26; v. 288; p. 825.
- Rub-No-More Co., The, Fort Wayne, Ind. Egg-preserving preparations. No. 138,698; Jan. 4; v. 282; p. 189.
- Rub-No-More Company, The, Fort Wayne, Ind. White naphtha soap. No. 142,118; May 3; v. 286; p. 190.
- Rubberized Sheetting & Specialty Co. Inc., New York, N. Y. Waterproof baby-pants. No. 149,220; Dec. 6.
- Rubberized Sheetting & Specialty Co. Inc., New York, N. Y. Babies' waterproof bloomers. No. 149,327; Dec. 6.
- Rubens, Chas., & Co., Chicago, Ill. Snap-fasteners. No. 142,325; May 10; v. 286; p. 406.
- Rubin, Samuel, New York, N. Y. Garters, armbands, suspenders. No. 147,462; Oct. 18.
- Rubinat, Barcelona, Spain. Mineral waters. No. 143,150; May 24; v. 286; p. 850.
- Rubyhill Vineyard Co., Pleasanton, Calif. Grape-juice. No. 150,085; Dec. 27.
- Rudco Drug Co., Portland, Oreg. External and internal medicinal preparation. No. 148,244; Nov. 8.
- Rudd, E. M., Fargo, N. D., assignor to W. M. Nesheim, Moorhead, Minn. Photographs and illustrations. No. 147,397; Oct. 11.
- Rudolph, J. C., & Co., Inc., Chicago, Ill. Cheese. No. 147,155; Oct. 4.



- Rudolph, J. C., & Company, Inc., Chicago, Ill. Cheese. No. 146,346; Sept. 6; v. 290; p. 203.
- Rudy Furnace Co., The, Dowagiac, Mich. Coal and wood stoves and furnaces. No. 141,428; Apr. 19; v. 285; p. 568.
- Rudd, Josephine C., Richmond, Va. Compound for promoting the growth of the hair. No. 150,086; Dec. 27.
- Rueckheim Bros. & Eckstein, Chicago, Ill. Candied popcorn. No. 144,668; July 12; v. 288; p. 428.
- Rueckheim Bros. & Eckstein, Chicago, Ill. Ice-cream cones. No. 144,900; July 19; v. 288; p. 621.
- Rueckheim Bros. & Eckstein, Chicago, Ill. Marshmallows, chocolates, fudge, filled candies, &c. No. 148,245; Nov. 8.
- Ruff, Ulysses G., Jr., Philadelphia, Pa. Salve for skin disease. No. 149,800; Dec. 20.
- Ruglen, Rufus J., Detroit, Mich. Disinfectants, insecticides, and exterminators. No. 146,602; Sept. 13; v. 290; p. 422.
- Runk, John, Stillwater, Minn. Phonograph-record-cleaning attachments and the wipers used in connection therewith. No. 148,246; Nov. 8.
- Runkel Brothers, Inc., New York, N. Y. Cocoa. No. 139,695; Feb. 8; v. 283; p. 358.
- Runyan, Arthur L., Omaha, Nebr. Educational device. No. 146,603; Sept. 13; v. 290; p. 422.
- Busk Oil Co. of Philadelphia, Pa., Philadelphia, Pa. Motor-lubricating oil. No. 150,087; Dec. 27.
- Rusk Oil Co. of Philadelphia, Pa., Philadelphia, Pa. Lubricating-greases. No. 150,088; Dec. 27.
- Busk Oil Co. of Philadelphia, Pa., Philadelphia, Pa. Motor-oil. No. 150,089; Dec. 27.
- Russell, Annie L., Philadelphia, Pa. Hair-grower salve and a salve for dressing and beautifying the hair. No. 144,626; July 12; v. 288; p. 425.
- Russell, Ed., Laredo, Tex. Medicinal preparation. No. 143,153; May 24; v. 286; p. 850.
- Russell, John, Cutlery Co., Turners Falls, Mass. Whittling kits consisting of boxes containing tools, &c. No. 140,673; Mar. 22; v. 284; p. 747.
- Russell, John, Cutlery Co., Turners Falls, Mass. Whittling kits. No. 141,429; Apr. 19; v. 285; p. 568.
- Russell Manufacturing Co., The, Middletown, Conn. Dress-belt. No. 150,090; Dec. 27.
- Russell Manufacturing Company, The, Middletown, Conn. Elastic webbing. Nos. 140,531-6; Mar. 15; v. 284; pp. 585-6.
- Russell Manufacturing Company, The, Middletown, Conn. Garters and hose-supporters. No. 141,650; Apr. 26; v. 285; p. 782.
- Russell Manufacturing Company, Middletown, Conn. Suspenders, hose-supporters, garters, elastic braids and cords, &c. Nos. 142,737-8; May 17; v. 286; p. 633.
- Russell Manufacturing Company, The, Middletown, Conn. Webs. Nos. 143,151-2; May 24; v. 286; p. 850.
- Russell Manufacturing Company, The, Middletown, Conn. Elastic webbing, ladies' dress-belt, garters, &c. No. 143,446; May 31; v. 286; p. 1052.
- Russell Manufacturing Company, The, Middletown, Conn. Elastic webbing, garters, hose-supporters, and suspenders. No. 143,447; May 31; v. 286; p. 1052.
- Russell Manufacturing Company, The, Middletown, Conn. Elastic webbing, ladies' dress belt, garters, &c. No. 143,448; May 31; v. 286; p. 1052.
- Russell Manufacturing Company, The, Middletown, Conn. Ladies' dress-belt, elastic webbing, and suspenders. No. 143,449; May 31; v. 286; p. 1052.
- Russell Manufacturing Company, The, Middletown, Conn. Elastic webbing and ladies' dress-belt. Nos. 143,451-2; May 31; v. 286; p. 1052.
- Russell Manufacturing Company, The, Middletown, Conn. Elastic webbing. No. 143,453; May 31; v. 286; p. 1052.
- Russell Manufacturing Company, The, Middletown, Conn. Belting, brake-linings, anti-squeak webs, &c. No. 143,454; May 31; v. 286; p. 1052.
- Russell Manufacturing Company, The, Middletown, Conn. Spindle-bandings, webs, clutch and cone facings. No. 143,735; June 7; v. 287; p. 187.
- Russell Manufacturing Company, The, Middletown, Conn. Elastic webbing. No. 144,048; June 21; v. 287; p. 582.
- Russell Manufacturing Company, The, Middletown, Conn. Halters, surcingle, girths, web-harness, auto, bag, school, lowering and bundle-straps. No. 146,856; Sept. 20; v. 290; p. 637.
- Russell Manufacturing Company, Middletown, Conn. Suspenders. No. 148,247; Nov. 8.
- Russell Manufacturing Company, The, Middletown, Conn. Halters, surcingle, girths, web harness, and auto, &c., straps. No. 148,248; Nov. 8.
- Russell Mfg. Co., Middletown, Conn. Automobile-brake linings. No. 146,050; Aug. 23; v. 289; p. 794.
- Russo, Frank, Rivesville, W. Va. Preparation for the treatment of rheumatism. No. 143,154; May 24; v. 286; p. 850.
- Rust-Parker Company, Augusta, Me., and Duluth, Minn. Package-chocolates. No. 139,622; Feb. 8; v. 283; p. 353.
- Rust & Thompson, Malden, Mass. Creepers, rompers, and boys' suits. No. 141,665; Apr. 26; v. 285; p. 782.
- Rusticide Company, The, Cleveland, Ohio. Chemical preparation for removing rust. No. 147,024; Sept. 27; v. 290; p. 805.
- Rustless Rule Co. Inc., Buffalo, N. Y. Rules. No. 141,804; Apr. 26; v. 285; p. 793.
- Rutenber Electric Co., Marion, Ind. Electric toasters. No. 146,604; Sept. 13; v. 290; p. 422.
- Ruth, Benjamin F., Reading, Pa. Non-alcoholic, non-cereal, maltless beverages. No. 150,091; Dec. 27.
- Rutland, William H., Altus, Okla. Medicinal preparations for the treatment of affections of the eye. No. 150,092; Dec. 27.
- Ruyera Lopez Cigar Mfg. Co., Inc., Philadelphia, Pa. Cigars. No. 143,455; May 31; v. 286; p. 1052.
- Ryan, Allan C., Elyria, Ohio. Acid-proof non-ferrous metals for bearings. No. 148,528; Nov. 15.
- Ryan, Andrew H., Sapulpa, Okla. Salve or ointment for external uses. No. 146,347; Sept. 6; v. 290; p. 203.
- Ryan, B., New York, N. Y. Thermostatic controllers for water-heaters. No. 143,155; May 24; v. 286; p. 850.
- Ryan, Oscar, Sioux City, Iowa. Phonograph-diaphragms for sound-reproducing machines. No. 140,957; Mar. 29; v. 284; p. 948.
- Rycroft, W. W., & Co., New York, N. Y. Cotton-warp and wool dress piece goods. No. 144,047; June 21; v. 287; p. 582.
- Rycroft, W. W., & Co., New York, N. Y. Silk-warp henriettes, silk and wool black dress goods, &c. No. 146,348; Sept. 6; v. 290; p. 203.
- Rycroft, W. W., & Co., New York, N. Y. All-wool dress goods in the piece. No. 147,398; Oct. 11.
- Rycroft, W. W., & Co., New York, N. Y. Cotton and wool dress goods in the piece. No. 149,494; Dec. 13.
- Rymil Chemical Company, Indianapolis, Ind. Hair-restorer. No. 143,156; May 24; v. 286; p. 850.
- Poynt, George W., Co., Chicago, Ill. Certain parts of machinery. No. 148,729; Nov. 22.
- Ryrie, Geo. M., Company, Alton, Ill. Canned fruits, vegetables, and fish, fruit preserves, jellies, &c. No. 144,902; July 19; v. 288; p. 622.
- S. C. Agricultural Distributing Co., Lake City, S. C. Walking and sulky plows, stalk-cutters, cultivators, &c. No. 141,435; Apr. 19; v. 285; p. 569.
- S. & V. Products Co., Chicago, Ill. Egg-preserving compound. No. 143,486; May 31; v. 286; p. 1053.
- S. S. P. Manufacturing Company, Chicago, Ill. Water gages and columns, certain gage-glass specialties. No. 147,691; Oct. 25.
- S. S. S. Mfg. Co., Madisonville, Ky. Soft drink beverage. No. 144,932; July 19; v. 288; p. 622.
- Saberton Mfg. Co., Tampa, Fla. Toilet soap. No. 145,449; Aug. 2; v. 289; p. 181.
- Saberton Mfg. Co., Tampa, Fla. Soap. No. 145,802; Aug. 16; v. 289; p. 597.
- Sacks, I., & Sons, New York, N. Y. Silks in the piece. No. 150,093; Dec. 27.
- Saenger Brothers, Shreveport, La. Tooth-paste. No. 144,049; June 21; v. 287; p. 582.
- Safe-Cabinet Company, The, Marietta, Ohio. Case or container to protect its contents against the effect of temperature. No. 139,955; Feb. 22; v. 283; p. 760.
- Safetee Soap Corporation. (See American Safetee Soap Corporation.)
- Safety Fire Extinguisher Co., New York, N. Y. Fire-extinguishers. No. 142,896; May 17; v. 286; p. 641.
- Safety Fire Extinguisher Co., The, New York, N. Y. Mechanical fire-extinguisher. No. 144,143; June 21; v. 287; p. 590.
- Sailors and Lamb Company, The, Cleveland, Ohio. Prepared paints, varnishes, and paint enamels. No. 150,094; Dec. 27.
- Sailors and Lamb Company, The, Cleveland, Ohio. Painters' supplies, prepared paints, varnishes, and paint enamels. No. 150,095; Dec. 27.
- Saino, F. L., Manufacturing Co. Inc., The, Memphis, Tenn. Metal fire doors and shutters. No. 146,857; Sept. 20; v. 290; p. 637.
- Saint, Mrs. Charles, Kaplan, La. Partly-prepared rice in package form. No. 146,138; Aug. 30; v. 289; p. 1015.
- St. Albans Grain Company, St. Albans, Vt. Poultry feed, horse feed, pig feed, pigeon feed, calf-meal, and hog feed. No. 138,868; Jan. 11; v. 282; p. 378.
- St. Albans Grain Company, St. Albans, Vt. Foods and ingredients of foods. No. 139,893; Feb. 22; v. 283; p. 755.
- St. Clair, Rosa D., San Antonio, Tex. Hair-grower, pressing-oil, hair-tonic, &c. No. 144,636; July 12; v. 288; p. 425.
- St. Lawrence Manufacturing Company, Chicago, Ill. Hair-tonic. No. 147,820; Nov. 1.
- St. Louis Brass Manufacturing Company, St. Louis, Mo. Fixtures for electric lights. No. 139,898; Feb. 22; v. 283; p. 755.
- St. Louis Coal Co., St. Louis, Mo., and Coulterville, Ill. Coal. No. 142,337; May 10; v. 286; p. 406.
- St. Louis Electrical Works, St. Louis, Mo., assignors to Valley Electric Company, Wilmington, Del. Electric motors and motor-generators. No. 142,783; May 17; v. 286; p. 634.
- St. Louis Electrical Works, St. Louis, Mo., assignors to Valley Electric Company, Wilmington, Del. Rectifiers for alternating currents. No. 147,521; Oct. 18.
- St. Louis Independent Packing Company, St. Louis, Mo. Oleomargarin. No. 141,811; Apr. 26; v. 285; p. 793.
- St. Louis Independent Packing Company, St. Louis, Mo. Oleomargarin. No. 144,538; July 5; v. 288; p. 200.



*Alphabetical list of registrants of trade-marks—Continued.*

- St. Louis Insecticide and Specialty Co., St. Louis, Mo. Insecticides. Nos. 148,540-1; Nov. 15.
- St. Louis Piston Ring Corporation, St. Louis, Mo. Metallic packing-rings. No. 138,713; Jan. 4; v. 282; p. 189.
- Salathe, Frederick, Whiting, Ind. Boiler compound. No. 139,196; Jan. 25; v. 282; p. 735.
- Salembier & Clay, Inc., New York, N. Y. Satin in the piece. No. 144,050; June 21; v. 287; p. 582.
- Sales Department, Gillican-Chipley Co., Inc., New Orleans, La. Turpentine. No. 146,234; Sept. 6; v. 290; p. 199.
- Salerno, Savino, Boston, Mass. Non-alcoholic maltless beverages used as soft drinks. No. 144,916; July 19; v. 288; p. 622.
- Salikof, Abraham, Philadelphia, Pa. Toilet waters, perfumes, massage-creams, and shampoo preparations. No. 147,025; Sept. 27; v. 290; p. 805.
- Salmonson, Isidore, Los Angeles, Calif. Puttees of leather and canvas. No. 147,399; Oct. 11.
- Salomon, Blum and Co., New York, N. Y. Ladies' suits, coats, and dresses. No. 145,803; Aug. 16; v. 289; p. 597.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Velvets and plushes in the piece. No. 139,877; Feb. 22; v. 283; p. 755.
- Salt's Textile Manufacturing Company, Bridgeport, Conn., and New York, N. Y. Coats, cloaks, wraps, costumes, &c. No. 141,212; Apr. 12; v. 285; p. 383.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 142,742; May 17; v. 286; p. 633.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 145,579; Aug. 9; v. 289; p. 408.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 146,139; Aug. 30; v. 289; p. 1015.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 146,858; Sept. 20; v. 290; p. 637.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Certain articles of clothing for women, children, and infants. No. 147,679; Oct. 25.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 149,221; Dec. 6.
- Saltzman, Harry, New York, N. Y. Negligée, dress, and work shirts. No. 148,529; Nov. 15.
- Salutaris Mineral Water Company, St. Claire, Mich. Mineral water. No. 140,204; Mar. 8; v. 284; p. 367.
- Salux Laboratories, Inc., Seattle, Wash. Hair-shampoo. No. 138,857; Jan. 11; v. 282; p. 377.
- Salvarrey y Cerro, Nicolas. (See Salvarrey y Cerro, Hermanos, assignor.)
- Salvarrey y Cerro Hermanos, assignor to Nicolas Salvarrey y Cerro, Santander, Spain. Canned fish, vegetables, meats, and game. No. 140,141; Mar. 8; v. 284; p. 365.
- Salz Brothers, New York, N. Y. Stylographic pens. No. 148,530; Nov. 15.
- Salzer, John A., Seed Co., La Crosse, Wis. Garden, field, and flower seeds. No. 143,158; May 25; v. 286; p. 850.
- Salzinco Company, Philadelphia, Pa. Mouth-washes. No. 143,157; May 24; v. 286; p. 850.
- Samoset Chocolates Company, Boston, Mass. Candy. Nos. 149,726-8; Dec. 20.
- Samson, John S., & Son, New York, N. Y. Bar-pin for men's soft collars. No. 138,700; Jan. 4; v. 282; p. 189.
- Samson, Abe, Cedarhurst, N. Y. Spark-plugs. No. 146,349; Sept. 6; v. 290; p. 203.
- Samson Tractor Company, Janesville, Wis. Agricultural implements. No. 142,743; May 17; v. 286; p. 633.
- Samson Tractor Company, Janesville, Wis. Wheeled vehicles other than bicycles. No. 143,160; May 24; v. 286; p. 851.
- Samson Tractor Company, Janesville, Wis. Automobiles, motor-trucks, motor-lorries, and motor-cars. No. 143,458; May 31; v. 286; p. 1052.
- Samson Tractor Company, Janesville, Wis. Tractors, internal-combustion engines, &c. No. 144,466; July 5; v. 288; p. 195.
- Samstag & Hilder Bros., New York, N. Y. Combs and button-hooks not made of precious metal. No. 138,856; Jan. 11; v. 282; p. 331.
- Samstag & Hilder Bros., New York, N. Y. Dolls. No. 142,744; May 17; v. 286; p. 633.
- Samstag & Hilder Bros., New York, N. Y. Hair-nets. No. 142,745; May 17; v. 286; p. 633.
- Samstag & Hilder Bros., New York, N. Y. Hair-nets. No. 145,804; Aug. 16; v. 289; p. 597.
- Samstag & Hilder Bros., New York, N. Y. Hair-nets. No. 146,350; Sept. 6; v. 290; p. 203.
- Samstag & Hilder Bros., New York, N. Y. Nail-brushes. No. 146,859; Sept. 20; v. 290; p. 637.
- Samstag & Hilder Bros., New York, N. Y. Hair-nets. No. 147,680; Oct. 25.
- Samstag & Hilder Bros., New York, N. Y. Cloth, bonnet, hat, and hair brushes. No. 148,249; Nov. 8.
- Samstag & Hilder Bros. Inc., New York, N. Y. Hair-nets. No. 150,096; Dec. 27.
- Samuel Gabriel Sons & Company, New York, N. Y. Toy picture-books of paper. No. 144,118; June 21; v. 287; p. 587.
- Samuels, M., & Co., Baltimore, Md. Leather and fibrous boots, shoes, and slippers. No. 147,882; Nov. 1.
- San Antonio Drug Co., San Antonio, Tex. Papeteries, writing, typewriter, and correspondence paper, &c. No. 143,159; May 24; v. 286; p. 851.
- San Antonio Drug Co., San Antonio, Tex. Pumice, whale-oil soap, metal-polish, &c. No. 144,271; June 28; v. 287; p. 776.
- San Antonio Drug Co., San Antonio, Tex. Disinfectant, insecticide, and deodorizer. No. 147,026; Sept. 27; v. 290; p. 805.
- San Antonio Drug Co., San Antonio, Tex. Disinfectant and insecticide. No. 147,027; Sept. 27; v. 290; p. 805.
- San Antonio Drug Co., San Antonio, Tex. Gargle and nasal spray. No. 147,028; Sept. 27; v. 290; p. 805.
- San Antonio Drug Co., San Antonio, Tex. Certain medicinal preparations. No. 147,029; Sept. 27; v. 290; p. 805.
- San Antonio Drug Co., San Antonio, Tex. Silicate of soda. No. 147,156; Oct. 4.
- San Antonio Drug Co., San Antonio, Tex. Razors, scissors, and sprayers for insecticides, disinfectants, and germicides. No. 147,400; Oct. 11.
- San Antonio Drug Co., San Antonio, Tex. Pharmaceutical preparations. No. 148,250; Nov. 8.
- San Antonio Drug Co., San Antonio, Tex. Gargle, mouth-wash, and nasal spray. No. 148,737; Nov. 22.
- San Antonio Drug Co., San Antonio, Tex. Baseballs. No. 150,097; Dec. 27.
- San Benito County Canning Co., Hollister, Calif. Canned fruits and vegetables. No. 143,161; May 24; v. 286; p. 851.
- San Benito County Canning Co., Hollister, Calif. Canned fruits and vegetables. No. 145,450; Aug. 2; v. 289; p. 181.
- San Bernardino Canning Co., San Bernardino, Calif. Canned vegetables and fruits. No. 145,451; Aug. 2; v. 289; p. 181.
- San Diego Conserve Company, San Diego, Calif. Salad-dressing, vinegar, jellies, &c. No. 145,452; Aug. 2; v. 289; p. 181.
- San Marcos Cotton Breeding Farms, San Marcos, Tex. Cotton-seed for planting purposes. No. 143,737; June 7; v. 287; p. 187.
- San Miguel Medicine Co., Los Angeles, Calif. Blood-purifier. No. 145,746; Aug. 16; v. 289; p. 595.
- Sánchez, Louis G., Albuquerque, N. Mex. Liniment for rheumatic diseases. No. 139,878; Feb. 22; v. 283; p. 755.
- Sandage, William L., Indianapolis, Ind. Bearings. No. 150,098; Dec. 27.
- Sanders, Diavolo A., Nyack, N. Y. Retreaded rubber and fabric tires. No. 139,879; Feb. 22; v. 283; p. 755.
- Sanderson, Wootson L., Meridian, Miss. Artificial stone and brick. No. 142,121; May 3; v. 286; p. 190.
- Sandfelder Corporation, The, Attleboro, Mass. Magazine lead-pencils. No. 144,917; July 19; v. 288; p. 622.
- Sandow Motor Truck Co., Chicago, Ill. Motor-trucks and automobiles. No. 145,805; Aug. 16; v. 289; p. 597.
- Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Watch-springs. No. 142,326; May 10; v. 286; p. 406.
- Sanford Mills, Sanford, Me. Pile fabrics of mohair. No. 139,380; Feb. 1; v. 283; p. 171.
- Sanford Mills, Sanford, Me. Artificial leather. No. 144,918; July 19; v. 288; p. 622.
- Sanford Motor Truck Company, Syracuse, N. Y. Motor-trucks. No. 147,883; Nov. 1.
- Sanford Truck Growers, Inc., Sanford, Fla. Foods. No. 142,119; May 3; v. 286; p. 190.
- Sanger Brothers, Inc., Dallas, Tex., and New York, N. Y. Articles of clothing. No. 142,327; May 10; v. 286; p. 406.
- Sangtoy Company, The, Grand Rapids, Mich. Musical stringed instruments played by a bow. No. 146,860; Sept. 20; v. 290; p. 637.
- Sani-Komb Corporation, The, New York, N. Y. Combs. No. 138,699; Jan. 4; v. 282; p. 189.
- Sanitary Feather Co., The, Chicago, Ill. Pillows, sofa-cushions, mattresses, and box-springs. No. 142,390; May 10; v. 286; p. 411.
- Sanitary Garbage Box Company, Chicago, Ill. Concrete garbage-receptacles. No. 139,381; Feb. 1; v. 283; p. 171.
- Sanitary Mattress Company, Minneapolis, Minn. Mattresses. No. 150,099; Dec. 27.
- Sanitary Novelty Company, Indianapolis, Ind. Butter-mixers, &c. No. 148,251; Nov. 8.
- Sanitary Products Corporation of America, Philadelphia, Pa. Paper forks. No. 142,746; May 17; v. 286; p. 633.
- Sanitary Receiver Company Inc., Dunkirk, N. Y. Metal cans or receptacles for waste material. No. 143,162; May 24; v. 286; p. 851.
- Sanitary Rubber Novelty Mfg. Co., Chicago, Ill. Rubber pants for infants' wear. No. 149,222; Dec. 6.
- Sanitas Company, Inc., The, Jersey City, N. J., and Brooklyn, N. Y. Disinfectants, insecticides, and deodorants. Nos. 149,223-5; Dec. 6.
- Sanitas Company, Inc., The, Jersey City, N. J., and Brooklyn, N. Y. Disinfectants and air-conditioning preparations. No. 149,226; Dec. 6.
- Sanitas Company Inc., The, Jersey City, N. J., and Brooklyn, N. J. Disinfectants, insecticides, and deodorants. Nos. 150,100-1; Dec. 27.
- Sanitol Chemical Laboratory Co., St. Louis, Mo. Certain toilet and pharmaceutical preparations. No. 147,030; Sept. 27; v. 290; p. 805.



- Sans-Ake Company, The, Lakewood, Ohio. Rheumatism medicine. No. 140,428; Mar. 15; v. 284; p. 582.
- Sant Chemical Co., Kansas City, Mo. Powder preparation for cleaning artificial teeth. No. 147,401; Oct. 11.
- Saqui, Dave S., New York, N. Y. Cigars, chewing tobacco, stogies, &c. No. 143,459; May 31; v. 286; p. 1052.
- Saragoy Brothers, New York and Brooklyn, N. Y. Garbage-can. No. 140,205; Mar. 8; v. 284; p. 367.
- Sarapas, Frank, Kincaid, Ill. Medicine for relieving influenza, pneumonia, &c. No. 148,252; Nov. 8.
- Sargent, Chas. R., Company, The, Cleveland, Ohio. Paint oils, colors, and pigments and turpentine. No. 147,157; Oct. 4.
- Sargent Company, Chicago, Ill. Water-gages. No. 139,880; Feb. 22; v. 283; p. 755.
- Sargent Company, Chicago, Ill. Rear-view mirrors for automobiles. No. 149,729; Dec. 20.
- Sargent's, C. G., Sons Corporation, Graniteville, Mass. Wool and yarn treating machinery. No. 141,432; Apr. 19; v. 285; p. 569.
- Sargent's, C. G., Sons Corporation, Graniteville, Mass. Textile machines and equipments. No. 142,122; May 3; v. 286; p. 190.
- Sass, Stephen K., Chicago, Ill. Salve. No. 139,468; Feb. 1; v. 283; p. 177.
- Sasseen, John H., assignor to United Food Products Company, Houston, Tex. Dressings or sauces for ices, puddings, &c., and fillers for confectionery, &c. No. 143,738; June 7; v. 287; p. 187.
- Satin Candy Co. Inc., Baltimore, Md. Candy. No. 140,429; Mar. 15; v. 284; p. 582.
- Sattelpau, Paul, San Francisco, Calif., assignor to Rain-on-Tap Company. Sprinkler systems for lawns and gardens. No. 139,382; Feb. 1; v. 283; p. 171.
- Sattler, Gustav, New York, N. Y. Hair-nets. No. 147,813; Nov. 1.
- Sauer, C. F., Company, The, Richmond, Va. Food-flavoring extracts. No. 149,730; Dec. 20.
- Saul, Tom W., Seattle, Wash. Hair pins and combs. No. 149,227; Dec. 6.
- Saundersite Manufacturing Company, Denver, Colo. Prepared cleaner for cars, automobile-bodies, &c. No. 142,747; May 17; v. 286; p. 633.
- Savage, Linnaeus T., New York, N. Y. Manually and self-propelled mechanical toys. No. 148,770; Nov. 22.
- Savannah Millinery & Supply Co., Savannah, Ga. Ladies' misses' and children's hats. No. 142,748; May 17; v. 286; p. 633.
- Saveall Dentifrice Company, Chicago, Ill. Dentifrice. No. 148,531; Nov. 15.
- Sawyer Boot & Shoe Co., Bangor, Me. Moccasins. No. 148,253; Nov. 8.
- Sawyer, Cora A., Egan, S. D. Receptacles made of a combination of paper-pulp, &c. No. 142,120; May 3; v. 286; p. 190.
- Sawyer Crystal Blue Company, Boston, Mass. Disinfecting and cleansing compound. No. 149,228; Dec. 6.
- Sawyer, F. V., Wichita, Kans. Remedy for the treatment of rheumatism. No. 144,272; June 28; v. 287; p. 776.
- Say Tay Co., Louisville, Ky. Non-alcoholic, non-cereal, maltless beverage. No. 141,213; Apr. 12; v. 285; p. 383.
- Saylor & Co., Reading, Pa. Shoe-laces. No. 138,701; Jan. 4; v. 282; p. 189.
- Saylor's, Miss, Chocolates, Inc., Alameda, Calif. Candy. No. 147,158; Oct. 4.
- Scalp Germicide Company, The, Youngstown, Ohio. Certain germicidal preparations. No. 147,031; Sept. 27; v. 290; p. 805.
- "Scandinavia" Belting Ltd., London, England. Cotton and hair belting. No. 141,214; Apr. 12; v. 285; p. 383.
- Scarborough, H. S., Lufkin, Tex. Medicine to be used in the treatment of gonorrhea. No. 138,858; Jan. 11; v. 282; p. 377.
- Schaefer, Estate of Joseph J., Dayton, Ohio. Cigars. No. 150,206; Dec. 27.
- Schaefer Tent & Awning Co., The, Denver, Colo. Water-bags. No. 145,806; Aug. 16; v. 289; p. 597.
- Schaechterle, Henry, Friend, Nebr. Collapsible rims. No. 148,340; Nov. 8.
- Schafer Bakery Inc., Savannah, Ga. Bread. No. 142,897; May 17; v. 286; p. 641.
- Schalk Chemical Company, Los Angeles, Calif. Paint and varnish remover. No. 147,514; Oct. 18.
- Schapira, William, New York, N. Y. Laxatives. No. 141,215; Apr. 12; v. 285; p. 383.
- Schaub & Howett, Lancaster, Pa. Chemical preparation. No. 146,001; Aug. 23; v. 289; p. 789.
- Scheffer & Rossum Co., St. Paul, Minn. Stationary vulcanizing plants. No. 149,497; Dec. 13.
- Scheffler Hair Colorine Company, The, New York, N. Y. Hair-dye. No. 145,807; Aug. 16; v. 289; p. 597.
- Scheidt, Adam, Brewing Company, Norristown, Pa. Lager-beer. No. 142,749; May 17; v. 286; p. 633.
- Scheidt, Adam, Brewing Co., Norristown, Pa. Malt extract. No. 149,812; Dec. 27.
- Scherer & Pix, Utica, N. Y. Coffee. No. 140,430; Mar. 15; v. 284; p. 582.
- Scherer, Oscar, & Bro. Inc., New York, N. Y. Kid. No. 143,126; May 24; v. 286; p. 849.
- Scherrer, Albert, New York, N. Y. Clinical thermometers. No. 147,246; Oct. 4.
- Schibi Spring Brewing Co., St. Charles, Mo. Root-beer. No. 146,861; Sept. 20; v. 290; p. 637.
- Schieck, John C., San Francisco, Calif. Stoves, ranges, and water-heaters. No. 140,958; Mar. 29; v. 284; p. 948.
- Schieren, Chas. A., Company, New York, N. Y. Certain leather packings. No. 149,229; Dec. 6.
- Schiffman, Martin, New York, N. Y. Oleomargarin. No. 140,431; Mar. 15; v. 284; p. 582.
- Schiller, Louis, San Francisco, Calif. Non-alcoholic maltless beverage. No. 141,433; Apr. 19; v. 285; p. 569.
- Schiller, Louis, San Francisco, Calif. Non-alcoholic maltless beverage. No. 145,453; Aug. 2; v. 289; p. 181.
- Schlang & Co., Brooklyn, N. Y. Men's suits. No. 143,460; May 31; v. 286; p. 1052.
- Schlang & Co., Brooklyn, N. Y. Serge piece goods. No. 143,739; June 7; v. 287; p. 187.
- Schlesinger, Maurice F., New York, N. Y. Aromatized castor-oil. No. 141,805; Apr. 26; v. 285; p. 793.
- Schlichting, Arthur E., Sheboygan Falls, Wis. Chocolate dessert-pudding. No. 141,434; Apr. 19; v. 285; p. 569.
- Schmid, E., Company, Indianapolis, Ind. Dental, medical, and surgical appliances. No. 149,801; Dec. 20.
- Schmid, Julius, Incorporated, New York, N. Y. Eyebrow and eyelid preparations. No. 143,740; June 7; v. 287; p. 187.
- Schmid, Julius, Incorporated, New York, N. Y. Face-powders, rouges, eyebrow-pencils, &c. No. 146,140; Aug. 30; v. 289; p. 1015.
- Schmidt, B. L., Company, Davenport, Iowa. Metal-grinding machines. No. 149,230; Dec. 6.
- Schmidt, Matthias C., Tacoma, Wash. Heels for shoes. No. 140,055; Mar. 1; v. 284; p. 178.
- Schmidt, Otto, New York, N. Y. Russian dressing and mayonnaise. No. 138,859; Jan. 11; v. 282; p. 377.
- Schmoll Fils & Co. Inc., New York, N. Y. Tanning material. No. 140,959; Mar. 29; v. 284; p. 948.
- Schnack, Martin R., Los Angeles, Calif. Doll with flexible joints. No. 149,231; Dec. 6.
- Schneider, Emil D., Memphis, Tenn. Cold and vanishing creams, toilet waters, &c. No. 146,864; Sept. 20; v. 290; p. 637.
- Schneider, Frank, New York, N. Y. Wedding and evening dresses. No. 148,254; Nov. 8.
- Schneiders, S., and Son, London, England. Jackets, vests, trousers, knickerbockers, overcoats, &c. for men, youths, and boys. No. 140,674; Mar. 22; v. 280; p. 747.
- Schneiders, S., and Son, London, England. Men's, youths', and boys' jackets, vests, raincoats, &c. No. 141,216; Apr. 12; v. 285; p. 385.
- Schoder & Lombard Stamp & Die Co., Inc., New York, N. Y. Metal-punching dies. No. 140,675; Mar. 22; v. 284; p. 747.
- Schoellkopf Company, The, Dallas, Tex. Monthly publication. No. 142,328; May 10; v. 286; p. 406.
- Schoen, Carl, Silk Corporation, New York, N. Y. Textile fabrics—namely, silk, silk and wool, and silk and cotton fabrics. No. 144,919; July 19; v. 288; p. 622.
- Schoeneman, J., Inc., Baltimore, Md. Articles of clothing. No. 140,206; Mar. 8; v. 284; p. 367.
- Schoeneman, J., Incorporated, Baltimore, Md. Clothing. No. 146,865; Sept. 20; v. 290; p. 637.
- Schoenhofen Company, Chicago, Ill. Birch-ale. No. 138,702; Jan. 4; v. 282; p. 189.
- Schoenhofen Company, Chicago, Ill. Ginger-ale, sarsaparilla, birch-beer, and soda-water. No. 143,461; May 31; v. 286; p. 1052.
- Schoenhofen Company, Chicago, Ill. Ginger-ale. No. 145,454; Aug. 2; v. 289; p. 181.
- Schoenhofen Company, Chicago, Ill. Root-beer. No. 145,455; Aug. 2; v. 289; p. 181.
- Schoenfeld, Nathan, New York, N. Y. Combined packing and display receptacles for neckties. No. 148,255; Nov. 8.
- Schoenholz, Rosa, San Francisco, Calif. Hair-remover and face-cleanser. No. 146,137; Aug. 30; v. 289; p. 1015.
- Schoening-Koenigsmark Milling Co., Valmeyer, Ill. Self-rising wheat-flour. No. 144,532; July 5; v. 288; p. 199.
- Schoening-Koenigsmark Milling Co., Valmeyer, Ill. Self-rising wheat-flour. No. 147,159; Oct. 4.
- Schoening-Koenigsmark Milling Co., Valmeyer, Ill. Self-rising wheat-flour. No. 147,681; Oct. 25.
- Scholl Manufacturing Company, Inc., Chicago, Ill. Instep-arch support. No. 139,469; Feb. 1; v. 283; p. 177.
- Schomer, Henry, Company, Chicago, Ill. Bed-springs. No. 150,102; Dec. 27.
- Schondau, Dr. Theodore, El Paso, Tex. Foot-powder. No. 145,998; Aug. 23; v. 289; p. 789.
- Schram Glass Manufacturing Co., Hillsboro, Ill., and St. Louis, Mo. Lids or caps for fruit-jars. No. 145,521; Aug. 2; v. 289; p. 186.
- Schram Glass Manufacturing Company, Hillsboro, Ill., and St. Louis, Mo. Glass fruit-jars. No. 149,612; Dec. 13.
- Schreiber, Antonie L., Baltimore, Md. Hair-restorer. No. 140,676; Mar. 22; v. 284; p. 747.
- Schreiber-Hoban Company, The, Streator, Ill. Under-waists. No. 142,750; May 17; v. 286; p. 633.
- Schreiber, John J., Minneapolis, Minn. Stock and poultry food. No. 146,351; Sept. 6; v. 290; p. 203.
- Schreiber, Rudolph, Inc., New York, N. Y. Woolen cloth in the piece. No. 148,600; Nov. 15.
- Schreiber, Rudolph, Inc., New York, N. Y. Worsted cloths in the piece. No. 148,601; Nov. 15.



*Alphabetical list of registrants of trade-marks—Continued.*

- Schreiber, Rudolph, Inc., New York, N. Y. Woolen cloth in the piece. No. 148,602; Nov. 15.
- Schrodt, Jack P., Memphis, Tenn. Remedy or medicine for indigestion and dyspepsia. No. 140,960; Mar. 29; v. 284; p. 948.
- Schrodt, Jack P., Memphis, Tenn. Liquid preparation, being a remedy for indigestion and dyspepsia. No. 144,273; June 28; v. 287; p. 776.
- Schroeder & Company, Inc., New York, N. Y. Girls' and misses' dresses. No. 148,774; Nov. 22.
- Schroeder, Henry P., St. Louis, Mo. Non-intoxicating beverages. No. 142,123; May 3; v. 286; p. 190.
- Schroeder, Henry P., St. Louis, Mo. Non-intoxicating beverages. No. 149,232; Dec. 6.
- Schriro, Benjamin, New York, N. Y. Non-alcoholic and non-cereal maltless beverages. No. 146,862; Sept. 20; v. 290; p. 637.
- Schroetter, Arnold & Co., New York, N. Y. Gold alloy. No. 141,667; Apr. 26; v. 285; p. 783.
- Schrumm-Schrumm Co., Chicago, Ill. Material for manufacturing home brew. No. 146,352; Sept. 6; v. 290; p. 203.
- Schuckl, Max, San Francisco, Calif. Canned fruits and vegetables. No. 144,330; June 28; v. 287; p. 782.
- Schuckl, Max, San Francisco, Calif. Canned fruits and salmon. No. 146,353; Sept. 6; v. 290; p. 203.
- Schuckl, Max, San Francisco, Calif. Canned fruits and vegetables. No. 146,866; Sept. 20; v. 290; p. 637.
- Schuckl, Max, San Francisco, Calif. Canned fruits and vegetables. No. 150,103; Dec. 27.
- Schuler Chocolate Factory, Inc., Winona, Minn. Candy. No. 139,623; Feb. 8; v. 283; p. 353.
- Schuler Chocolate Factory, Winona, Minn. Chocolate candy. No. 145,456; Aug. 2; v. 289; p. 181.
- Schulman, George, New York, N. Y. Dresses. No. 144,920; July 19; v. 288; p. 622.
- Schumacher, P. J., Co., Inc., New York, N. Y. Toilet preparations. No. 143,163; May 24; v. 286; p. 851.
- Schuster Co., The, Cleveland, Ohio. Non-alcoholic maltless beverage. No. 141,217; Apr. 12; v. 285; p. 383.
- Schussler, Ferdinand C., Newark, N. J. Liquid preparation for treating gasoline, &c., for the purpose of producing more power in motors using above fuels. No. 145,803; Aug. 16; v. 289; p. 597.
- Schwabacher Bros. & Co. Inc., Seattle, Wash. Candies. No. 141,668; Apr. 26; v. 285; p. 783.
- Schwartzah, Timothy K., Long Island City, N. Y. Non-intoxicating cola drink. No. 139,624; Feb. 8; v. 289; p. 353.
- Schwarz, Emil, Chicago, Ill. Wrenches. No. 149,233; Dec. 6.
- Schwarz, Harry, St. Louis, Mo. Women's and girls' waists. No. 144,533; July 5; v. 288; p. 200.
- Schwarz, John A., Inc., New York and Brooklyn, N. Y. Mattresses. No. 147,682; Oct. 25.
- Schwarz, Max, New York, N. Y. Voiles in the piece. No. 139,470; Feb. 1; v. 283; p. 177.
- Schwartz, S. Robert & Bro., New York, N. Y. Portable electric lamps and conduit-fittings. No. 144,502; July 5; v. 288; p. 196.
- Schwartz, S. Robert & Bro., New York, N. Y. Portable electric lamps. No. 148,918; Nov. 29.
- Schwarze Electric Company, Adrian, Mich. Electric horns. No. 149,731; Dec. 20.
- Schweitzer, Isidore, New York, N. Y. Knitted and textile fabric-underwear for women and children. No. 145,522; Aug. 2; v. 289; p. 186.
- Schwepps, Limited, London, England. Mineral waters. No. 143,741; June 7; v. 287; p. 187.
- Schwepps, Limited, London, England. Mineral waters. No. 144,921; July 19; v. 288; p. 622.
- Schwinger, Mae H., San Fernando, Calif. Honey, preserved orange, orange marmalade, jelly, and jam. No. 148,256; Nov. 8.
- Schwob, Adolphe, Inc., New York, N. Y. Watches. No. 139,098; Jan. 18; v. 282; p. 560.
- Schwob, Adolphe, Inc., New York, N. Y. Watches and watch-movements. No. 139,881; Feb. 22; v. 283; p. 755.
- Scintilla, Canton of Solothurn, Switzerland. Motor-vehicles—viz., cars, boats, flying-machines, airships, &c. No. 144,922; July 19; v. 288; p. 622.
- Scintilla, Solothurn, Switzerland. Engines and parts thereof. No. 145,215; July 26; v. 288; p. 817.
- Scofield, Henry H., Chicago, Ill. Washing compounds. No. 139,625; Feb. 8; v. 283; p. 353.
- Scofield, Lillian E., New York, N. Y. Dye. No. 145,903; Aug. 16; v. 289; p. 603.
- Scofield, Lillian E., New York, N. Y. Bluing for wool and silk. No. 146,354; Sept. 6; v. 290; p. 203.
- Scotford, Baron H., Atlantic City, N. J. Portraits, sketches, drawings, &c. No. 142,751; May 17; v. 286; p. 633.
- Scotsmoor Company, Johnstown, N. Y. Clothing. Nos. 144,274-5; June 28; v. 287; p. 776.
- Scott, Cloma H., Omaha, Nebr. Preparation for scalp diseases. No. 145,999; Aug. 23; v. 289; p. 789.
- Scott, Minnie G., Chicago, Ill. Bath-salts. No. 140,961; Mar. 29; v. 284; p. 948.
- Scott, Minnie G., Chicago, Ill. Massage and skin curative. No. 140,962; Mar. 29; v. 284; p. 948.
- Scott Paper Company, Philadelphia, Pa. Paper towels. No. 140,963; Mar. 29; v. 284; p. 948.
- Scott Player Action Co., Racine, Wis. Player-piano actions. No. 141,218; Apr. 12; v. 285; p. 383.
- Scott Paper Company, Chester, Pa. Paper towels and napkins. No. 145,216; July 26; v. 288; p. 817.
- Scott Paper Company, Chester, Pa. Paper towels and napkins. No. 146,355; Sept. 6; v. 290; p. 203.
- Scott, Peter, and Company, Limited, Hawick, Scotland. Articles of clothing. No. 142,752; May 17; v. 286; p. 633.
- Scottish Woollen Trade Mark Association, Limited, The, Edinburgh, Scotland. Cloths and stuffs of wool in the piece. No. 139,383; Feb. 1; v. 283; p. 171.
- Scott's Preparations, Inc., New York, N. Y. Toilet preparation to reduce superfluous flesh. No. 148,257; Nov. 8.
- Scott's Preparations Inc., New York, N. Y. Toilet and medicinal preparation used as a facial and body massage cream and mud and as a skin curative. No. 148,919; Nov. 29.
- Scovil, Cora D., New York, N. Y. Certain display devices. No. 145,291; July 26; v. 288; p. 825.
- Scoville, M. G., Sons Company, Ogden, Utah. Brooms. Nos. 139,197-203; Jan. 25; v. 282; pp. 735-6.
- Scoville, M. G., Sons Company, Ogden, Utah. Brooms. Nos. 139,384-5; Feb. 1; v. 283; p. 171.
- Scoville, Nellie, St. Louis, Mo. Infants' stork pants and bibs. No. 140,677; Mar. 22; v. 284; p. 747.
- Scowcroft, John, & Sons Company, Ogden, Utah. Certain articles of clothing. No. 149,328; Dec. 6.
- Scranton Distributing and Manufacturing Company, Scranton, Pa. Tonic aiding digestion, nervousness, imparting strength to the system, and a laxative. No. 143,164; May 24; v. 286; p. 851.
- Scranton Distributing and Manufacturing Company, Scranton, Pa. General tonic, laxative, and diuretic for stomach troubles. No. 146,356; Sept. 6; v. 290; p. 203.
- Scranton Distributing and Manufacturing Company, Scranton, Pa. General tonic. No. 147,032; Sept. 27; v. 290; p. 806.
- Scranton, H. S., Florence, Colo. Preparation for the cleansing of false teeth. No. 144,630; July 12; v. 288; p. 425.
- Scranton Silk Machine Company, Scranton, Pa. Machinery used in the preparation and treatment of silk and silk manufactures. No. 149,499; Dec. 13.
- Scullin Steel Co., St. Louis, Mo. Certain railway-car accessories. No. 147,683; Oct. 25.
- Scuttlas, John, Mahanoy City, Pa. Medicinal preparation. No. 140,678; Mar. 22; v. 284; p. 747.
- Sea Island Thread Co. Inc., New York, N. Y. Threads and yarns. No. 145,222; July 26; v. 288; p. 817.
- Sea Island Thread Co. Inc., New York, N. Y. Mercerized and yarns. No. 145,222; July 26; v. 288; p. 817.
- Seaboard Refractories Company, Valentines, N. J. Refractory bricks. No. 145,221; July 26; v. 288; p. 817.
- Seaboard and Inland Oil Corporation, Bloomsburg, Pa. Lubricating oils and greases. No. 146,605; Sept. 13; v. 290; p. 422.
- Seaboard Refractories Company, Valentines, Raritan township, N. J. Refracted bricks of standard and special shapes. No. 147,734; Oct. 25.
- Seacoast Canning Co., Eastport, Me., and East San Pedro, Calif. Canned sardines. Nos. 139,204-5; Jan. 25; v. 282; p. 736.
- Seacoast Canning Co., Eastport, Me., and East San Pedro, Calif. Canned sardines and yellowtail. No. 139,206; Jan. 25; v. 282; p. 736.
- Seacoast Canning Co., Eastport, Me., and East San Pedro, Calif. Canned sardines. No. 139,207; Jan. 25; v. 282; p. 736.
- Seacoast Canning Co., Eastport, Me., and East San Pedro, Calif. Canned sardines. Nos. 139,386-7; Feb. 1; v. 283; p. 171.
- Seacoast Canning Co., Eastport, Me., and East San Pedro, Calif. Canned sardines and tuna fish. No. 139,882; Feb. 22; v. 283; p. 755.
- Seacoast Canning Co., Eastport, Me., and East San Pedro, Calif. Canned sardines. No. 140,207; Mar. 8; v. 284; p. 367.
- Seacoast Canning Co., Eastport, Me., and East San Pedro, Calif. Canned bonita and yellowtail. No. 140,964; Mar. 29; v. 284; p. 948.
- Seacoast Canning Co., Eastport, Me., and East San Pedro, Calif. Canned tuna fish, albacore, mackerel, &c. No. 141,219; Apr. 12; v. 285; p. 383.
- Seacoast Canning Co., Eastport, Me., and East San Pedro, Calif. Canned sardines. No. 145,809; Aug. 16; v. 289; p. 597.
- Seacoast Canning Co., Eastport, Me. Canned sardines. No. 148,532; Nov. 15.
- Seager, Evans & Co., Limited, London, England. Certain named distilled alcoholic liquors. No. 139,388; Feb. 1; v. 283; p. 171.
- Sealy, Thomas, New York, N. Y. Spirits of turpentine. No. 141,220; Apr. 12; v. 285; p. 384.
- Seamans & Cobb Company, Augusta, Me., and Boston, Mass. Piece goods for wearing apparel, upholstery, &c. No. 145,600; Aug. 23; v. 289; p. 789.
- Seamless Rubber Company, Inc., The, New Haven, Conn. Rubber hot-water bags or bottles. No. 146,606; Sept. 13; v. 290; p. 422.



- Sears Equipment Company, Inc., Rome, N. Y. Lubricating oils and greases. No. 148,920; Nov. 29.
- Sears Manufacturing Company, Lockhart, Tex. Wear-pads to be fastened to the knees. No. 141,221; Apr. 12; v. 285; p. 384.
- Sears and Nichols Canning Co., The, Chillicothe, Ohio. Canned vegetables. No. 140,208; Mar. 8; v. 284; p. 367.
- Sears and Nichols Canning Co., The, Chillicothe, Ohio. Canned vegetables. No. 141,222; Apr. 12; v. 285; p. 384.
- Sears and Nichols Canning Co., The, Chillicothe, Ohio. Canned vegetables. Nos. 141,671-2; Apr. 26; v. 285; p. 783.
- Sears & Nichols Canning Co., The, Chillicothe, Ohio. Canned vegetables. No. 144,534; July 5; v. 288; p. 200.
- Sears, Roebuck & Company, Chicago, Ill. Plaiters. No. 140,432; Mar. 15; v. 284; p. 582.
- Sears, Roebuck and Co., Chicago, Ill. Cotton-batting. No. 140,965; Mar. 29; v. 284; p. 948.
- Sears, Roebuck & Company, Chicago, Ill. Wool yarn. No. 141,670; Apr. 26; v. 285; p. 783.
- Sears, Roebuck and Co., Chicago, Ill. Corsets. No. 142,329; May 10; v. 286; p. 406.
- Sears, Roebuck and Company, Chicago, Ill. Safety-pins. No. 142,330; May 10; v. 286; p. 406.
- Sears, Roebuck and Co., Chicago, Ill. Outer suits and trousers for men and boys. No. 142,753; May 17; v. 286; p. 633.
- Sears, Roebuck and Co., Chicago, Ill. Gasolene-engines. No. 142,754; May 17; v. 286; p. 633.
- Sears, Roebuck and Company, Chicago, Ill. Corsets. No. 143,165; May 24; v. 286; p. 851.
- Sears, Roebuck and Co., Chicago, Ill. Ticking. No. 143,462; May 31; v. 286; p. 1053.
- Sears, Roebuck and Co., Chicago, Ill. Wool-batting. No. 143,463; May 31; v. 286; p. 1053.
- Sears, Roebuck and Co., Chicago, Ill. Cotton piece goods—namely, romper-cloth. No. 143,742; June 7; v. 287; p. 187.
- Sears, Roebuck and Co., Chicago, Ill. Sweater-coats. No. 143,743; June 7; v. 287; p. 187.
- Sears, Roebuck & Company, Chicago, Ill. Gas, coal, and wood heating and cooking stoves. No. 144,051; June 21; v. 287; p. 582.
- Sears, Roebuck and Co., Chicago, Ill. Cotton batiste in the piece. No. 144,052; June 21; v. 287; p. 582.
- Sears, Roebuck and Co., Chicago, Ill. Toilet and laundry soap and soap flakes. No. 144,276; June 28; v. 287; p. 776.
- Sears, Roebuck and Co., Chicago, Ill. Sateen in the piece. No. 144,467; July 5; v. 288; p. 195.
- Sears, Roebuck and Co., Chicago, Ill. Diaper-flannel in the piece. No. 144,923; July 19; v. 288; p. 622.
- Sears, Roebuck and Co., Chicago, Ill. Middy-cloth in the piece. No. 144,924; July 19; v. 288; p. 622.
- Sears, Roebuck and Co., Chicago, Ill. Cotton serge in the piece. No. 144,925; July 19; v. 288; p. 622.
- Sears, Roebuck and Co., Chicago, Ill. Chambray in the piece. No. 144,926; July 19; v. 288; p. 622.
- Sears, Roebuck and Co., Chicago, Ill. Gingham in the piece. No. 144,927; July 19; v. 288; p. 622.
- Sears, Roebuck and Co., Chicago, Ill. Wool rugs. No. 145,217; July 26; v. 288; p. 817.
- Sears, Roebuck and Co., Chicago, Ill. Canton-flannel. No. 145,218; July 26; v. 288; p. 817.
- Sears, Roebuck and Co., Chicago, Ill. Batiste in the piece. No. 145,219; July 26; v. 288; p. 817.
- Sears, Roebuck and Co., Chicago, Ill. Ticking in the piece. No. 145,220; July 26; v. 288; p. 817.
- Sears, Roebuck and Co., Chicago, Ill. Typewriters. No. 145,581; Aug. 9; v. 289; p. 408.
- Sears, Roebuck and Co., Chicago, Ill. Diaper-cloth. No. 147,684; Oct. 25.
- Sears, Roebuck and Co., Chicago, Ill. Chambray in the piece. No. 148,738; Nov. 22.
- Sears, Roebuck and Co., Chicago, Ill. Outer suits for men and boys. No. 148,921; Nov. 29.
- Sears, Roebuck and Co., Chicago, Ill. Cotton piece goods. No. 149,234; Dec. 6.
- Sears, Roebuck and Company, New York, N. Y., and Chicago, Ill. Phonograph-cabinets and wooden stands and supports for same. No. 147,685; Oct. 25.
- Sears, Roebuck and Company, New York, N. Y., and Chicago, Ill. Spring-driven motors, and certain accessories therefor. No. 147,814; Nov. 1.
- Seattle Paint Company, Seattle, Wash. Ready-mixed paints. No. 145,810; Aug. 16; v. 289; p. 597.
- Seawright, Charlie C., Pratt City, Ala. Compound for treating diseases of the blood, liver, and lungs. No. 143,464; May 31; v. 286; p. 1053.
- Sehree, Harry H., St. Louis, Mo. Rust-eradicator in the form of dry powdered chemicals. No. 139,031; Jan. 18; v. 282; p. 556.
- Sebring Citrus Growers Association, Sebring, Fla. Fresh citrus fruits. No. 149,500; Dec. 13.
- Security Bag Company, The, Lockland, Ohio. Paper bags. No. 140,209; Mar. 8; v. 284; p. 367.
- Security Cement & Lime Co., Hagerstown, Md. Calcareous composition for soil improvement. No. 149,732; Dec. 20.
- Sedberry, James B., Texarkana, Ark. Agricultural and milling machinery consisting of feed-mills, grinding-mills, &c. No. 149,733; Dec. 20.
- Seeds, John A., Jr., Philadelphia, Pa. Butter. No. 143,744; June 7; v. 287; p. 187.
- Seekenep Silk Co., Inc., New York, N. Y. Silk and cotton piece goods. No. 142,755; May 17; v. 286; p. 633.
- Segal Lock & Hardware Co. Inc., New York, N. Y. Keys and locks. No. 144,631; July 12; v. 288; p. 425.
- Segger, Fred'k E., Ipswich, England. Boots and shoes, boot and shoe soles, and sole and heel pads. No. 140,679; Mar. 22; v. 284; p. 747.
- Segin, Adalbert, New York, N. Y. Pharmaceutical preparation for remedying colds, rheumatism, &c. No. 139,032; Jan. 18; v. 282; p. 556.
- Sehieren, Chas. A., Company, New York, N. Y. Leather packings. No. 149,498; Dec. 13.
- Sehon, Stevenson and Company, Huntington, W. Va. Coffee. No. 148,922; Nov. 29.
- Seibel Air-Spring Company Incorporated, Phoenix, Ariz., and San Francisco, Calif. Pneumatic shock-absorbers. No. 144,468; July 5; v. 288; p. 195.
- Seibert, William, Dr., assignor to R. Maurer, Chino, Calif. Medicinal pills. No. 139,033; Jan. 18; v. 282; p. 556.
- Sek Manufacturing Company, Chicago, Ill. Waterproofing compounds for leather and leather products. No. 139,728; Feb. 15; v. 283; p. 541.
- Selden Truck Corporation, Rochester, N. Y. Automobiles and motor-trucks. No. 144,469; July 5; v. 288; p. 195.
- Self-locking Carton Company. (See Steudel, Erich, assignor.)
- Self-Seating Valve Company, Chicago, Ill. Valves for internal-combustion engines. No. 142,756; May 17; v. 286; p. 633.
- Seligman and Latz, New York, N. Y. Hair and scalp shampoo preparations. No. 144,419; July 5; v. 288; p. 193.
- Seligman and Latz, New York, N. Y. Scalp shampoo preparations. No. 146,500; Sept. 6; v. 290; p. 215.
- Seligman, N., Merchandise Co., Inc., New York, N. Y. Hair-nets. No. 143,745; June 7; v. 287; p. 187.
- Seligman, N., Merchandise Co., New York, N. Y. Hair-nets. No. 144,928; July 19; v. 288; p. 622.
- Sellers, William, & Company, Incorporated, Philadelphia, Pa. Starting-valves, check-valves, strainers. No. 138,860; Jan. 11; v. 282; p. 377.
- Sellers, William, & Company, Incorporated, Philadelphia, Pa. Tools and machinery. No. 138,861; Jan. 11; v. 282; p. 378.
- Seminole Chemical Co. Inc., New York, N. Y. Boiler compound. No. 140,680; Mar. 22; v. 284; p. 747.
- Semrad Chemical Co., Chicago, Ill. Food-flavorings for confectionery, cakes, ice-cream, &c. No. 132,208; Jan. 25; v. 282; p. 736.
- Semrad Chemical Co., Chicago, Ill. Food-flavoring extracts. No. 142,757; May 17; v. 286; p. 633.
- Senneff-Herr Co., Sterling, Ill. Confectioners' product used for the centers of chocolate creams. No. 139,389; Feb. 1; v. 283; p. 171.
- Senneff-Herr Co., Sterling, Ill. Confectioners' products. No. 141,223; Apr. 12; v. 285; p. 384.
- Senneff-Herr Co., Sterling, Ill. Confectioner's product used for ice-cream syrup-toppings. No. 141,669; Apr. 26; v. 285; p. 783.
- Senor & Wertheim Inc., New York, N. Y. Artificial-silk yarn. No. 145,223; July 26; v. 288; p. 817.
- Sen-Rayto Co., The, Cleveland, Ohio. Hair-tonic, pomade, and cold-cream. No. 143,465; May 31; v. 286; p. 1053.
- Serravallo, Vittorio, Dr., Trieste, Italy. Iron tonic. No. 139,696; Feb. 8; v. 283; p. 358.
- Service Auto Equipment Corporation, Kansas City, Mo. Outer tubes or shoes for pneumatic tires. No. 145,007; July 19; v. 288; p. 628.
- Service Corp., Bakersfield, Calif. Non-alcoholic, non-cereal, maltless beverages. Nos. 150,104-5; Dec. 27.
- Service Oil Refining Company, Kokomo, Ind. Gasolene, kerosene, lubricating oils and greases. No. 146,501; Sept. 6; v. 290; p. 215.
- Service Oil Refining Company, Kokomo, Ind. Gasolene. No. 147,160; Oct. 4.
- Service Recorder Company, Cleveland, Ohio. Instruments for recording the periods of operation and of rest of machinery and vehicles. No. 141,806; Apr. 26; v. 285; p. 793.
- Service Studios, Chicago, Ill. Theatrical scenery and window backgrounds. No. 150,106; Dec. 27.
- Serv-Us Grocery Products Corporation, New York, N. Y. Foods. No. 139,626; Feb. 8; v. 283; p. 353.
- Serv-Us Grocery Products Corporation, New York, N. Y. Lamp-chimneys. No. 140,210; Mar. 8; v. 284; p. 367.
- Serv-Us Grocery Products Corporation, New York, N. Y. Writing paper and tablets, toilet-paper, and lead pencils. No. 140,681; Mar. 22; v. 284; p. 747.
- Serv-us Grocery Products Corporation, New York, N. Y. Fruit-jar rings. No. 141,673; Apr. 26; v. 285; p. 783.
- Serv-Us-Grocery Products Corporation, New York, N. Y. Chemicals, medicinal and pharmaceutical preparations. No. 143,166; May 24; v. 286; p. 851.
- Serv-us Grocery Products Corporation, New York, N. Y. Matches. No. 144,470; July 5; v. 288; p. 195.
- Sethness Company, Chicago, Ill. Malt and hop beverages. No. 149,501; Dec. 13.
- Sessum, B. L., Memphis, Tenn. Animal feed products. No. 141,436; Apr. 19; v. 285; p. 569.



*Alphabetical list of registrants of trade-marks—Continued.*

- Seven Eleven Auto Company, New Orleans, La. Automobiles, motorcycles, and bicycles. No. 140,682; Mar. 22; v. 284; p. 747.
- Severa, W. F., Co., Cedar Rapids, Iowa. Tonics. No. 140,433; Mar. 15; v. 284; p. 582.
- Severa, W. F., Co., Cedar Rapids, Iowa. Medicine for the blood. No. 147,034; Sept. 27; v. 290; p. 806.
- Severa, W. F., Co., Cedar Rapids, Iowa. Heart-stimulant. No. 147,161; Oct. 4.
- Severa, W. F., Co., Cedar Rapids, Iowa. Medicine for indigestion and similar complaints. No. 147,162; Oct. 4.
- Severa, W. F., Co., Cedar Rapids, Iowa. Medicine for kidneys and bladder. No. 147,163; Oct. 4.
- Severa, W. F., Co., Cedar Rapids, Iowa. Antiseptic ointment. No. 147,164; Oct. 4.
- Severa, W. F., Co., Cedar Rapids, Iowa. Liniment for external application. No. 147,165; Oct. 4.
- Sewell, Marvin L., Lavonia, Ga. Medicinal preparations for certain named purposes. No. 145,008; July 19; v. 288; p. 628.
- Sexton, C. W., & Co. Inc., Waynesboro, Pa. Certain named heaters and ventilators. No. 139,390; Feb. 1; v. 283; p. 171.
- Sexauer, Geo. P., & Son, Brookings, S. D. Seeds for food purposes and poultry feeds. No. 147,735; Oct. 25.
- Shabel, E. A., Glendene, Mont. Remedy for goiter. No. 140,211; Mar. 8; v. 284; p. 367.
- Shaft-Pierce Shoe Co., Faribault, Minn. Fabric, rubber, rubber composition, and leather shoes. No. 142,898; May 17; v. 286; p. 642.
- Shaler, C. A., Co., Waupun, Wis. Headlight lenses or fronts. No. 140,297; Mar. 8; v. 284; p. 373.
- Shallita Bros., New York, N. Y. Sheet-metal cans and pails. No. 149,502; Dec. 13.
- Shane, C. B., Co., Chicago, Ill. Raincoats. No. 142,758; May 17; v. 286; p. 633.
- Shane, C. B., Co., Chicago, Ill. Raincoats. No. 147,402; Oct. 11.
- Shanklin Manufacturing Company, Springfield, Ill. Acetylene-lamps. No. 148,923; Nov. 29.
- Shannon, Mell D., Sacramento, Calif. Ground or flooring wearing-surface compound. No. 143,746; June 7; v. 287; p. 187.
- Shapiro, Bernstein & Co., Inc., New York, N. Y. Prints and publications. No. 140,434; Mar. 15; v. 284; p. 582.
- Shapiro, Leo, Company, Minneapolis, Minn. Antiseptic, prophylactic tablets. No. 148,131; Nov. 8.
- Shapleigh Hardware Company, St. Louis, Mo. Phonograph-records. No. 141,674; Apr. 26; v. 285; p. 783.
- Shapleigh Hardware Company, St. Louis, Mo. Catalogue published from time to time. No. 144,277; June 28; v. 287; p. 776.
- Shapleigh Hardware Company, St. Louis, Mo. Certain cutlery, machines, and tools. No. 146,607; Sept. 13; v. 290; p. 422.
- Shapleigh Hardware Company, St. Louis, Mo. Shovels and spades. No. 147,687; Oct. 25.
- Shapleigh Hardware Company, St. Louis, Mo. T-bevels, hatchet-gages, squares, wing-dividers. No. 147,815; Nov. 1.
- Sharman, Thaker D., Detroit, Mich. Laundry-tablets. No. 147,301; Oct. 11.
- Share, Alonzo L., Kingfisher, Okla. Catarrhal oil. No. 143,466; May 31; v. 286; p. 1053.
- Sharp & Dohme, Baltimore, Md. Sedative expectorant. No. 139,697; Feb. 8; v. 283; p. 358.
- Sharp & Dohme, Baltimore, Md. Antiseptic powder. No. 140,435; Mar. 15; v. 284; p. 582.
- Sharp & Dohme, Baltimore, Md. Medicinal tablets. No. 142,124; May 3; v. 286; p. 190.
- Sharp & Dohme, Baltimore, Md. Rubefacient solution. No. 142,125; May 3; v. 286; p. 190.
- Sharp & Dohme, Baltimore, Md. Liquid medicinal antiseptic for hypodermic medication. No. 144,053; June 21; v. 287; p. 582.
- Sharp & Dohme, Baltimore, Md. Antiseptic lubricating-jelly. No. 145,811; Aug. 16; v. 289; p. 597.
- Sharp & Dohme, Baltimore, Md. Sugar substitute. No. 146,453; Sept. 6; v. 290; p. 209.
- Sharp & Dohme, Baltimore, Md. Antiseptic solution. No. 146,502; Sept. 6; v. 290; p. 215.
- Sharp & Dohme, Baltimore, Md. Uterine tonic. No. 146,503; Sept. 6; v. 290; p. 215.
- Sharp & Dohme, Baltimore, Md. Anodyne, antipruritic ointment. No. 146,504; Sept. 6; v. 290; p. 215.
- Sharp & Dohme, Baltimore, Md. Certain medicinal compound. No. 147,166; Oct. 4.
- Sharp & Dohme, Baltimore, Md. Antiseptic lubricating-jelly. No. 147,403; Oct. 11.
- Sharpe-Phillipi Co., Inc., Gloucester City, N. J. Antiseptic solution. No. 138,862; Jan. 11; v. 282; p. 378.
- Sharples Separator Company, The, West Chester, Pa. Milk and whey separators, milk-clarifiers, &c. No. 140,436; Mar. 15; v. 284; p. 583.
- Sharples Specialty Company, The, Philadelphia, Pa. Series of pamphlets and circulars. No. 144,535; July 5; v. 288; p. 200.
- Sharples Specialty Company, Philadelphia, Pa. Centrifugal machines. No. 146,505; Sept. 6; v. 290; p. 215.
- Shasta Creamery Company, Corning, Calif. Butter. No. 144,669; July 12; v. 288; p. 429.
- Shattock, Clifford, Detroit, Mich. Valve-grinding compound. No. 149,734; Dec. 20.
- Shaw, Alex. D., & Co., New York, N. Y. Olive-oil. No. 141,224; Apr. 12; v. 285; p. 384.
- Shaw, Alex. D., & Co., New York, N. Y. General antiseptic fluid. No. 144,471; July 5; v. 288; p. 195.
- Shaw, Alex. D., & Co., New York, N. Y. Polish for wood-work, tables, and floors. No. 144,929; July 19; v. 288; p. 622.
- Shaw, Alex. D., & Co., New York, N. Y. Polish for wood-work, tables, and floors. No. 146,357; Sept. 6; v. 290; p. 203.
- Shaw-Enochs Tractor Company, Minneapolis, Minn. Tractors. No. 142,759; May 17; v. 286; p. 633.
- Shea Smith & Co., Chicago, Ill. Loose-leaf binders, blank books, desk-pads, &c. Nos. 139,628-9; Feb. 8; v. 283; p. 353.
- Shea Smith & Co., Chicago, Ill. Loose-leaf binders, blank books, desk-pads, &c. No. 140,215; Mar. 8; v. 284; p. 367.
- Sheaffer, W. A., Pen Co., Fort Madison, Iowa. Writing fluids. No. 142,760; May 17; v. 286; p. 633.
- Sheahan, Kohn & Co., Chicago, Ill. Outer garments for boys. No. 140,966; Mar. 29; v. 284; p. 948.
- Sheats Stock Tonic Company, Winder, Ga. Stock-tonics and worm-powders. No. 139,034; Jan. 18; v. 282; p. 556.
- Shedaker, Charles E., & Sons, Philadelphia, Pa. Men's athletic underwear. No. 145,812; Aug. 16; v. 289; p. 597.
- Shedd Creamery Co., The, Detroit, Mich. Oleomargarin. No. 141,675; Apr. 26; v. 285; p. 783.
- Shelby Metal Products Co., The, Shelby, Ohio. Check-hinges. No. 142,331; May 10; v. 286; p. 406.
- Sheldon, Albert K., Company, Boston, Mass. Paints, paint-oils, varnishes, colors. No. 148,258; Nov. 8.
- Sheldon Axle and Spring Company, Wilkes-Barre, Pa. Axles and springs for vehicles. No. 140,056; Mar. 1; v. 284; p. 178.
- Sheldon Axle & Spring Co., Wilkes-Barre, Pa. Springs for vehicles. No. 149,735; Dec. 20.
- Shellabarger, Robert M., Muscatine, Iowa. Laxative. No. 140,967; Mar. 29; v. 284; p. 948.
- Shelp, William H., & Company, New York, N. Y. Underwear. No. 138,703; Jan. 4; v. 282; p. 189.
- Shepard, Arthur B., Company, The, Cleveland, Ohio. Buildings and partially-fabricated parts thereof. No. 144,930; July 19; v. 288; p. 622.
- Sherikjian, Paul A., Holyoke, Mass. Fruit conserve. No. 142,761; May 17; v. 286; p. 633.
- Sherman, Charles H., North Attleboro, Mass. Slides for watchguards, sautoirs, &c. No. 147,688; Oct. 25.
- Sherman, Clay & Co., San Francisco, Calif. Harmonicas or mouth-organs. No. 144,931; July 19; v. 288; p. 622.
- Sherman, Clay & Co., San Francisco, Calif. Harmonicas or mouth-organs. No. 146,358; Sept. 6; v. 290; p. 203.
- Sherman Overall Manufacturing Company, Sherman, Tex. Overalls. No. 141,225; Apr. 12; v. 285; p. 384.
- Sherman Overall Manufacturing Company, Sherman, Tex. Children's play-suits. No. 146,359; Sept. 6; v. 290; p. 203.
- Sherman White & Company, Fort Wayne, Ind. Butter, eggs, cheese, &c. No. 141,226; Apr. 12; v. 285; p. 384.
- Sherrott, Ralph S., St. Louis, Mo. Popcorn confection. No. 141,676; Apr. 26; v. 285; p. 783.
- Sherry, William A. (See Gross, George V., & Company, assignor.)
- Sherwin-Williams Company, Cleveland, Ohio. Insecticides, including animal-dips. No. 144,632; July 12; v. 288; p. 425.
- Sherwin-Williams Company, The, Cleveland, Ohio. Insecticides, fungicides, germicides, &c. No. 144,633; July 12; v. 288; p. 425.
- Sherwin-Williams Company, The, Cleveland, Ohio. Soft paste paint to be applied on wood and metal surfaces. No. 147,167; Oct. 4.
- Sherwin-Williams Company, The, Cleveland, Ohio. Paints, finishes, enamels, japans, varnishes, &c. No. 150,107; Dec. 27.
- Sherwin-Williams Company, The, Cleveland, Ohio. Cold-water paints. No. 150,108; Dec. 27.
- Sherwood Bros. Mfg. Co. Inc., Canastota, N. Y. Sleds. No. 142,762; May 17; v. 286; p. 633.
- Sherwood Petroleum Co. Inc., Brooklyn, N. Y. Petrolatums, mineral jellies and oils for medicinal and pharmaceutical uses. No. 150,109; Dec. 27.
- Sherwood Shoe Company, Rochester, N. Y. Shoes made of leather, rubber, fabric, or a combination of the same. No. 149,802; Dec. 20.
- Shields, Rosa B., Omaha, Neb. Hair-grower. No. 144,472; July 5; v. 288; p. 195.
- Shindley, Mr. & Mrs. Lewis A., Grand Rapids, Mich. Liquid external preparation for pneumonia, influenza, &c. No. 146,863; Sept. 20; v. 290; p. 637.
- Shimer, Porter W., Easton, Pa. Chemical preparations. No. 143,167; May 24; v. 286; p. 851.
- Shimer, Porter W., Easton, Pa. Lump calcium cyanamid. No. 143,168; May 24; v. 286; p. 851.
- Shire, Harry I., Detroit, Mich. Electrical ammeters. No. 145,457; Aug. 2; v. 289; p. 181.



- Shirek, A., & Sons, San Francisco, Calif. Coats, pants, overcoats. No. 140,057; Mar. 1; v. 284; p. 178.
- Shivers, Emanuel V., Baltimore, Md. Shoe-repairs. No. 148,259; Nov. 8.
- Shoe Retailer Company, The, Boston, Mass. Periodical published weekly. No. 148,260; Nov. 8.
- Shoot Chocolate Company, The, Cleveland, Ohio. Chocolate and hard candies. No. 141,677; Apr. 26; v. 285; p. 783.
- Shoot Chocolate Company, The, Cleveland, Ohio. Chocolates. No. 146,867; Sept. 20; v. 290; p. 637.
- Shores-Mueller Company, Cedar Rapids, Iowa. Chemicals, medicines, and pharmaceutical preparations. No. 140,968; Mar. 29; v. 284; p. 948.
- Shores-Mueller Company, Cedar Rapids, Iowa. Medicinal preparations. No. 144,475; July 5; v. 288; p. 195.
- Short, Lewis B., Indianapolis, Ind. Cleaning-powder for general building and house-cleaning purposes. No. 143,467; Mar. 31; v. 286; p. 1053.
- Short, Phillips & Healy, Inc., Seattle, Wash. Peanut-butter. No. 146,860; Sept. 6; v. 290; p. 203.
- Shotwell Johnson Co., Minneapolis, Minn. Radiators, fenders, mud-guards, and hoods for automobiles, &c. No. 146,780; Sept. 20; v. 290; p. 634.
- Shouvin, Patrick J., Springfield, Ohio. Internal-combustion engines, portable and stationary and combined with pumps; also gas or vacuum pumps. No. 144,278; June 28; v. 287; p. 776.
- Shoyer, D. W., & Co., New York, N. Y. Petticoats, sweaters, bloomers, &c. No. 149,235; Dec. 6.
- Shierk, John, Eveleth, Minn. Salve for blood-poison and skin diseases. No. 146,141; Aug. 30; v. 289; p. 1015.
- Shull Lumber & Shingle Co., Seattle, Wash. Shingles. No. 148,739; Nov. 22.
- Shuell, Frank W., Detroit, Mich. Gas water-heaters. No. 147,736; Oct. 25.
- Shu-Milk Products Corporation, Belleville, N. J. Shoe-polishes. No. 150,110; Dec. 27.
- Shuptrine Company, Savannah, Ga. Shampoo. No. 139,035; Jan. 18; v. 282; p. 556.
- Shurly, T. F., Co. Limited, St. Catharines, Ontario, Canada. Saws and machine-knives. No. 149,613; Dec. 13.
- Shutts, F. J., & Co., assignor to Ballston Knitting Co., Inc., Ballston Spa, N. Y. Men's hosiery. No. 138,763; Jan. 4; v. 282; p. 192.
- Sibbett, William F., Douglas, Ga. Chill and fever tonic. No. 139,209; Jan. 25; v. 282; p. 736.
- Sibson & Stern, Inc., Philadelphia, Pa. Braid. No. 144,144; June 21; v. 287; p. 590.
- Sicher, D. E., & Co., Inc., New York, N. Y. Clothing for women, misses, and children. No. 138,704; Jan. 4; v. 282; p. 189.
- Sickels & Roush, Columbus, Ohio. Scalp-tonics. No. 141,437; Apr. 19; v. 285; p. 569.
- Sidenberg, G., & Co., New York, N. Y. Cotton piece goods. No. 149,503; Dec. 13.
- Sidenberg, G., & Co., New York, N. Y. Rufflings and plaitings for neckwear and trimmings. No. 150,111; Dec. 27.
- Sidmans, The, Canandaigua, N. Y. Kilns and ventilating apparatus therefor. No. 142,127; May 3; v. 286; p. 190.
- Sidway Mercantile Company, Elkhart, Ind. Baby-carriages. No. 145,523; Aug. 2; v. 289; p. 186.
- Stiegelstein, Kathryn G., New York, N. Y. Ladies' hats. No. 141,438; Apr. 19; v. 285; p. 569.
- Siegle, G., Company, Rosebank, Staten Island, N. Y. Colors used in ink for printing and lithographing. Nos. 145,009-10; July 19; v. 288; p. 628.
- Signal Accessories Corporation, Utica, N. Y. Block-signals and railway-switches and parts thereof, &c. No. 149,236; Dec. 6.
- Signode System, Inc., Chicago, Ill. Metal strapping for balls, wooden boxes, &c., and metallic fastening-seals for said strapping. No. 149,504; Dec. 13.
- Siemon & Elting, New York, N. Y. Paint-oil. No. 141,227; Apr. 12; v. 285; p. 384.
- Siemon & Elting, New York, N. Y. Wash-blue. No. 142,128; May 3; v. 286; p. 190.
- Siers, William M., York, Pa. Cigars. No. 140,212; Mar. 8; v. 284; p. 367.
- Silberman, H. J., & Co., New York, N. Y. Neckties and cravats. No. 143,747; June 7; v. 287; p. 187.
- Silberman, Hazel D., New York, N. Y. Dolls, paper dolls, and dolls' outfits. No. 142,561; May 17; v. 286; p. 627.
- Silberman, Hazel D., New York, N. Y. Children's outer clothing. No. 143,468; May 31; v. 286; p. 1053.
- Silberman, Jacob, Stapleton, N. Y. Sleeping-garments. No. 142,764; May 17; v. 286; p. 633.
- Silfen, Louis, New York, N. Y. Dress, negligée, and work shirts. No. 149,237; Dec. 6.
- Silk, Louis A., New York, N. Y. Embroideries and laces in the piece and handkerchiefs. No. 139,630; Feb. 8; v. 283; p. 353.
- Silk Yarn Trading Company, New York, N. Y. Silk thread. No. 142,129; May 3; v. 286; p. 190.
- Silver Brothers, Chicago, Ill. Men's and boys' suits and overcoats. No. 140,298; Mar. 8; v. 284; p. 374.
- Silvey and Golliday, Eldon, Mo. Rug-cleaner. No. 147,404; Oct. 11.
- Silver Lake Company, Newton, Mass. Braided cords. No. 144,536; July 5; v. 288; p. 200.
- Silvera, Theodore E., Philadelphia, Pa. Hair restorer and shampoo. No. 143,469; May 30; v. 286; p. 1053.
- Silz, A., Inc., New York, N. Y. Foods. No. 138,863; Jan. 11; v. 282; p. 378.
- Silz, A., Inc., New York, N. Y. Dressed, canned, cured, and smoked specially-prepared and packed poultry and game-birds. No. 140,969; Mar. 29; v. 284; p. 948.
- Simmons, Daniel D., Minot, N. D. Field-seed. No. 146,868; Sept. 20; v. 290; p. 637.
- Simmons, Daniel D., Minot, N. D. Field-seeds. No. 148,261; Nov. 8.
- Simmons & Hammond Manufacturing Company, Portland, Me. Candies of various kinds and ice-cream. No. 143,471; May 31; v. 286; p. 1053.
- Simmons Hardware Company, St. Louis, Mo. Lead-pencils. No. 138,922; Jan. 11; v. 282; p. 382.
- Simmons Hardware Company, St. Louis, Mo. Elbows, stovepipe; gas, coal, wood, and oil stoves; portable ovens. No. 139,392; Feb. 1; v. 283; p. 171.
- Simmons Hardware Company, St. Louis, Mo. Riveting machines, lawn-rollers, vacuum-cleaners, &c. No. 140,058; Mar. 1; v. 284; p. 178.
- Simmons Hardware Company, St. Louis, Mo. Shaving cream and soap. No. 141,439; Apr. 19; v. 285; p. 569.
- Simmons Hardware Company, St. Louis, Mo. Brushes and mops. No. 141,807; Apr. 26; v. 285; p. 793.
- Simmons Hardware Company, St. Louis, Mo. Sleds and boys' wagons for play. No. 142,130; May 3; v. 286; p. 190.
- Simmons Hardware Company, St. Louis, Mo. Games, toys, and fancy goods. No. 142,131; May 3; v. 286; p. 190.
- Simmons Hardware Company, St. Louis, Mo. Harness, riding-saddles, horse-collars, &c. No. 142,392; May 10; v. 286; p. 411.
- Simmons Hardware Company, St. Louis, Mo. Padlocks, night-latches. No. 142,393; May 10; v. 286; p. 411.
- Simmons Hardware Company, St. Louis, Mo. Brides, saddle-pockets, chaps, and riding-saddles. No. 143,470; May 31; v. 286; p. 1053.
- Simmons Hardware Company, St. Louis, Mo. Golf-clubs, fishing-rods, reels, minnow seines and nets, &c. No. 144,331; June 28; v. 287; p. 782.
- Simmons Hardware Company, St. Louis, Mo. Razor-strops. No. 144,936; July 19; v. 288; p. 623.
- Simmons Hardware Company, St. Louis, Mo. Certain named roofing. No. 145,524; Aug. 2; v. 289; p. 187.
- Simmons Hardware Company, St. Louis, Mo. Certain paints. No. 146,506; Sept. 6; v. 290; p. 215.
- Simmons, Joseph, New York, N. Y. Finger-rings. No. 139,883; Feb. 22; v. 283; p. 755.
- Simmons, Lennie, Dallas, Tex. Tonic used in treatment of the hair and scalp. No. 146,869; Sept. 20; v. 290; p. 637.
- Simmons, Thomas W., Company, San Francisco, Calif. Certain chemicals. No. 142,899; May 17; v. 286; p. 642.
- Simmons, Thomas W., Company, San Francisco, Calif. Gasolene and kerosene. No. 144,537; July 5; v. 288; p. 200.
- Simon, Franklin & Co. Inc., New York, N. Y. Certain articles of clothing. No. 144,055; June 21; v. 287; p. 582.
- Simon, Franklin & Co. Inc., New York, N. Y. Articles of clothing. No. 146,870; Sept. 20; v. 290; p. 637.
- Simon, Franklin & Co. Inc., New York, N. Y. Certain articles of clothing. No. 147,405; Oct. 11.
- Simon, Louis, Toronto, Ontario, Canada. Pipes and cigar and cigarette holders. No. 142,765; May 17; v. 286; p. 634.
- Simon, Moe, New York, N. Y. Cotton piece goods. No. 139,391; Feb. 1; v. 283; p. 171.
- Simon, N., Cheese Co. Inc., Appleton, Wis. Cheese. No. 142,391; May 10; v. 286; p. 411.
- Simon, R. & H., Co., Union, N. J. Silk piece goods. No. 144,056; June 21; v. 287; p. 582.
- Simon, Samuel S., Company, Inc., Chicago, Ill. Trousers, suits, and overcoats for men and boys. No. 143,524; May 31; v. 286; p. 1056.
- Simonds Manufacturing Company, Fitchburg, Mass. Saws. No. 139,884; Feb. 22; v. 283; p. 755.
- Simonds Manufacturing Company, Fitchburg, Mass. Saws. No. 140,970; Mar. 29; v. 284; p. 948.
- Simonds, Walter A., Naguebo, Porto Rico. Fresh grapefruit and fresh oranges. No. 144,933; July 19; v. 288; p. 622.
- Simonson, Wilnot H., Medford, Mass. Powdered lemon-juice filling. No. 147,443; Oct. 11.
- Simplex Cloth Cutting Machine Co., Inc., New York, N. Y. Electric cloth-cutting machines. No. 140,541; Mar. 15; v. 284; p. 586.
- Simplex Corporation, Chicago, Ill. Locks for automobile steering posts and wheels. No. 146,507; Sept. 6; v. 290; p. 216.
- Simplex Electric Heating Co., Boston, Mass. Electric heating-radiators. No. 145,458; Aug. 2; v. 289; p. 181.
- Simplex Electric Heating Company, Boston, Mass. Electrical apparatus. No. 144,934; July 19; v. 288; p. 622.
- Simplex Manufacturing Company, Inc., The, Conneautville, Pa. Truck-bodies. No. 143,472; May 31; v. 286; p. 1053.



*Alphabetical list of registrants of trade-marks—Continued.*

- Simplex Steel Stamping and Manufacturing Company, St. Louis, Mo. Velocipedes. No. 143,834; June 7; v. 287; p. 194.
- Simplex Wire & Cable Company, Boston, Mass. Wire for electrical use, insulation materials, &c. No. 143,473; May 31; v. 286; p. 1053.
- Simplo Fullfeder, Gesellschaft Voss, Lausen & Dziambor, Hamburg, Germany. Fountain-pens. No. 148,262; Nov. 8.
- Simplo Fullfeder-Gesellschaft Voss, Lausen & Dziambor, Hamburg, Germany. Fountain-pens. No. 148,710; Nov. 22.
- Simpson, John B., Philadelphia, Pa. Articles of clothing. No. 144,935; July 19; v. 288; p. 623.
- Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton goods in the piece. No. 141,678; Apr. 26; v. 285; p. 783.
- Sims, Raphael, Pennsboro, W. Va. Bills of exchange. No. 146,361; Sept. 6; v. 290; p. 203.
- Sims, Roy A., St. Louis, Mo. Insecticides and disinfectants. No. 147,406; Oct. 11.
- Sinclair Refining Company, Chicago, Ill. Lubricating-oils. No. 146,362; Sept. 6; v. 290; p. 203.
- Sinclair Refining Company, Chicago, Ill. Lubricating-oils. No. 146,872; Sept. 20; v. 290; p. 637.
- Sinclair Refining Company, Chicago, Ill. Lubricating oils and greases. Nos. 146,873-4; Sept. 20; v. 290; p. 637.
- Sinclair Refining Company, Chicago, Ill. Petroleum products used as a fuel for automobiles, &c. No. 146,871; Sept. 20; v. 290; p. 637.
- Sinclair Refining Company, Chicago, Ill. Kerosene. No. 146,875; Sept. 20; v. 290; p. 637.
- Singer, Louis, New York, N. Y. Toilet preparations. No. 142,132; May 3; v. 286; p. 190.
- Singer Manufacturing Company, The, Elizabeth, N. J., and New York, N. Y. Electric motors and controllers therefor. No. 146,608; Sept. 13; v. 290; p. 422.
- Singer, Philip A., & Bro., Newark, N. J. Dressed furs for use in apparel. No. 142,332; May 10; v. 286; p. 406.
- Single, John, Syracuse, N. Y. Paper bags. No. 142,133; May 3; v. 286; p. 190.
- Sioux City Tire and Manufacturing Company, Sioux City, Iowa. Rubber inner tire-tubes and fabric and cord tire-casings. No. 145,459; Aug. 2; v. 289; p. 181.
- Sisson, Guy D., Company, Los Angeles, Calif. Dresses. No. 148,263; Nov. 8.
- Skat Company, The. (See Edgertyn Aniline Corporation, assignor.)
- Skat Company, The, Hartford, Conn. Soap of pastelike consistency. No. 142,766; May 17; v. 286; p. 634.
- Skelton, Jesse L., Morristown, Tenn. Salt-rising bread. No. 139,627; Feb. 8; v. 283; p. 353.
- Skinner Manufacturing Company, Omaha, Nebr. Macaroni, vermicelli, and egg-noodles. No. 141,808; Apr. 26; v. 285; p. 793.
- Skinner, William, & Sons, New York, N. Y., and Holyoke, Mass. Silk and satin goods in the piece. Nos. 146,363-4; Sept. 6; v. 290; p. 203.
- Skinner, William, & Sons, New York, N. Y., and Holyoke, Mass. Satin and satin de chine in the piece. No. 146,876; Sept. 20; v. 290; p. 637.
- Sky Roll Company, The, Fort Wayne, Ind. Perforated-disk-throwing games. No. 148,924; Nov. 29.
- Slaight, Leland V., New York, N. Y. Non-abrasive absorbent cleansing and polishing base. No. 143,069; May 24; v. 286; p. 848.
- Slater, Albert H., Paterson, N. J. Mattresses and pillows. No. 144,473; July 5; v. 288; p. 195.
- Slater and Morrill Incorporated, South Braintree, Mass. Boots and shoes. No. 142,781; May 17; v. 286; p. 634.
- Slatkin, Hyman, Baltimore, Md. Stove-polish. No. 142,767; May 17; v. 286; p. 634.
- Slavin, John M., San Francisco, Calif. Preparation for treatment of the hair and scalp. No. 146,508; Sept. 6; v. 290; p. 216.
- Slaymaker, Samuel R., assignor to Fraim-Slaymaker Hardware Company, Lancaster, Pa. Locks, keys and parts thereof, strike-plates, escutcheons. No. 142,782; May 17; v. 286; p. 634.
- Sleep-Or-Swing Company, Topeka, Kans. Combination porch-swing and hammock-couch. No. 147,407; Oct. 11.
- Sleeper & Hartley, Inc., Worcester, Mass. Wire working and other machines. No. 149,505; Dec. 13.
- Sleeper, William B., New York, N. Y. Non-inflammable cleaning fluid. No. 149,238; Dec. 6.
- Sligh, Samuel J., Orlando, Fla. Fresh citrus fruits and fresh tomatoes. No. 146,365; Sept. 6; v. 290; p. 203.
- Sloan, Dr. Earl S., Incorporated, New York, N. Y. Liniment. No. 141,300; Apr. 12; v. 285; p. 389.
- Slocumb, J. T., Co., Providence, R. I. Micrometer-callipers. No. 145,460; Aug. 2; v. 289; p. 181.
- Slonim Brothers, Duluth, Minn. Armbands, garters, and suspenders. Nos. 138,705-6; Jan. 4; v. 282; p. 189.
- Slonim Brothers, Duluth, Minn. Handkerchiefs. Nos. 139,393-4; Feb. 1; v. 283; pp. 171-2.
- Slonim Brothers, Duluth, Minn. Articles of clothing. No. 139,885; Feb. 22; v. 283; p. 755.
- Sly, Paul P., Santa Monica, Calif. Soap and soap tablets for laundry and toilet use. No. 148,604; Nov. 15.
- Smalley, Kivian & Outhank, Boston, Mass. Rubber rings for fruit and preserve jars. No. 139,886; Feb. 22; v. 283; p. 755.
- Smaltz, Hugh M., Marion, Ind. Fabric gloves. No. 138,864; Jan. 11; v. 282; p. 378.
- Smart & Final Co., Santa Ana, Calif. Roasted coffee, vinegar, prepared mustard, &c. No. 144,474; July 5; v. 288; p. 195.
- Smart Millinery Shop, The, Memphis, Tenn. Ladies' and men's hats, caps, and bonnets. No. 143,170; May 24; v. 286; p. 851.
- Smedley, Victor C., Denver, Colo. Preparation for dental-pulp preserving and capping. No. 138,731; Jan. 4; v. 282; p. 190.
- Smith, Alfred H., Company, New York, N. Y. Soaps. No. 145,461; Aug. 2; v. 289; p. 181.
- Smith, Alfred H., Company, New York, N. Y. Certain toilet preparations. No. 147,168; Oct. 4.
- Smith, Alfred H., Company, New York, N. Y. Soaps. No. 147,408; Oct. 11.
- Smith, Alfred H., Company, New York, N. Y. Certain toilet preparations. No. 148,740; Nov. 22.
- Smith, Benjamin S., Sydney, New South Wales, Australia. Hair-restorers. No. 139,760; Feb. 22; v. 283; p. 751.
- Smith & Butler, Inc., Haverhill, Mass. Overalls, jumpers, union-overalls, shop-coats, and aprons. No. 140,213; Mar. 8; v. 284; p. 367.
- Smith, C. D., Drug Co., St. Joseph, Mo. Antiseptic solution. No. 146,366; Sept. 6; v. 290; p. 203.
- Smith, C. D., Drug Co., St. Joseph, Mo. Certain chemical, medicinal, and toilet preparations. No. 150,112; Dec. 27.
- Smith, Charles, Providence, R. I. Metal frames for wreaths for florists' use. No. 146,509; Sept. 6; v. 290; p. 216.
- Smith, Charles H., Malden, Mass. Knockdown clothes-hangers, waste-baskets, and trays for holding toilet articles. No. 148,274; Nov. 8.
- Smith, David C., Schenectady, N. Y. Paint withstanding high temperature. No. 146,367; Sept. 6; v. 290; p. 203.
- Smith-Davis Company, Inc., New Orleans, La. Table-syrup. No. 141,679; Apr. 26; v. 285; p. 783.
- Smith, Eugene A., Chicago, Ill. Monthly magazine. No. 141,229; Apr. 12; v. 285; p. 384.
- Smith-Fans Drug Co., Salt Lake City, Utah. Chemicals, medicines, and pharmaceutical preparations. No. 143,871; June 14; v. 287; p. 402.
- Smith-Faus Drug Co., Salt Lake City, Utah. Mustard ointment. No. 144,279; June 28; v. 287; p. 776.
- Smith, Frank, Packing Co., Sacramento, Calif. Canned fruits. Nos. 144,937-8; July 19; v. 288; p. 623.
- Smith, Frank P., Huntington, Ind. Polish for furniture and automobiles. No. 144,939; July 19; v. 288; p. 623.
- Smith-Frank Packing Co., Sacramento, Calif. Canned fruits, fruit salad, and vegetables and dried fruits. No. 147,035; Sept. 27; v. 290; p. 806.
- Smith, George S., Atlanta, Ga. Toilet preparations. No. 139,888; Feb. 22; v. 283; p. 755.
- Smith, George W., Chicago, Ill. Memorandum-pads, calendar-pads, and pad-stands. No. 139,956; Feb. 22; v. 283; p. 760.
- Smith, George W., Chicago, Ill. Memorandum and calendar pads, pad-stands. No. 142,768; May 17; v. 286; p. 634.
- Smith, George W., & Company. (See Packard Engineering Company, The, assignor.)
- Smith, Gerald N., Pittsburgh, Pa. Household ammonia, bleaching fluid, bluing. No. 141,230; Apr. 12; v. 285; p. 384.
- Smith, H. D., Company, The, Plantsville, Conn. Cold and cape chisels, nail-sets, punches. No. 142,900; May 17; v. 286; p. 642.
- Smith, H. D., & Company, The, Plantsville, Conn. Offset slip-joint pliers. No. 143,171; May 24; v. 286; p. 851.
- Smith, H. D., & Company, The, Plantsville, Conn. Certain hand-tools. No. 144,145; June 21; v. 287; p. 590.
- Smith, H. D., & Company, The, Plantsville, Conn. Pliers. No. 144,146; June 21; v. 287; p. 590.
- Smith and Harrison, Washington, D. C. Cough-syrup. No. 147,036; Sept. 27; v. 290; p. 806.
- Smith, Harry J., Utica, N. Y. Fly, insect, and germ destroyer. No. 147,169; Oct. 4.
- Smith-Hecht Co., Indianapolis, Ind. Electric sign. No. 148,925; Nov. 29.
- Smith & Hemenway Company, Inc., New York, N. Y., and Irvington, N. J. Box-openers, glass-cutters, nail-pullers, and nail-puller combination-tools. Nos. 144,057-8; June 21; v. 287; p. 582.
- Smith & Hemenway Company, Inc., New York, N. Y., and Irvington, N. J. Metal and lock washers. No. 144,940; July 19; v. 288; p. 623.
- Smith, Herbert W., Washington, D. C. Bath-salts. No. 144,280; June 28; v. 287; p. 776.
- Smith, Hogg & Co., New York, N. Y. Cotton goods in the piece. No. 141,809; Apr. 26; v. 285; p. 793.
- Smith, Hogg & Co., New York, N. Y. Cotton goods in the piece. Nos. 145,011-12; July 19; v. 288; pp. 628-9.
- Smith, Hogg & Co., New York, N. Y. Cotton goods in the piece. No. 149,506; Dec. 13.
- Smith, J. K., & Co., North Baltimore, Md. Coffee. No. 145,904; Aug. 16; v. 289; p. 603.



- Smith, J. P., Shoe Co., Chicago, Ill. Shoes of leather, canvas and leather, canvas and rubber, and leather and rubber. Nos. 148,711-13; Nov. 22.
- Smith, J. P., Shoe Co., Chicago, Ill. Shoes of leather and combinations. No. 149,329; Dec. 6.
- Smith, James & Son, (Redditch), Ltd., Redditch, England. Package-needles for hand-sewing. No. 142,134; May 3; v. 286; p. 190.
- Smith, James & Son, Redditch, Ltd., Redditch, England. Sailmakers' needles. No. 142,135; May 3; v. 286; p. 191.
- Smith, James E., Philadelphia, Pa. Plastic rubber material for repairing tires, hose, &c. No. 148,264; Nov. 8.
- Smith, Lucius A., Buffalo, N. Y. Trusses. No. 149,507; Dec. 13.
- Smith, M. E., Co., Inc., Omaha, Nebr. Underwear. No. 139,036; Jan. 18; v. 282; p. 556.
- Smith, M. E., & Co., Inc., Omaha, Nebr. Yarns made of wool. No. 140,971; Mar. 29; v. 284; p. 948.
- Smith, M. E., & Co., Inc., Omaha, Nebr. Children's knitted sleeping-garments. No. 142,769; May 17; v. 286; p. 634.
- Smith, M. E., & Co., Inc., Omaha and Farnam, Nebr. Washable cotton dress materials in the piece. No. 148,533; Nov. 15.
- Smith, May C., Washington, D. C. Beads and bead necklaces. No. 142,225; May 3; v. 286; p. 192.
- Smith Metal Arts Company Inc., Buffalo, N. Y. Articles embossed, ornamented, or plated with silver. No. 139,887; Feb. 22; v. 283; p. 755.
- Smith-Monark Company, The, Cleveland, Ohio. Automobile tow-lines. No. 147,689; Oct. 25.
- Smith, Philip, Columbus, Ohio. Razors, safety-razors, pocket-knives, scissors, &c. No. 142,136; May 3; v. 286; p. 191.
- Smith, Roland L., Belmont, Mass. Certain surfacing and finishing composition. No. 147,690; Oct. 25.
- Smith, R. Cecil, West Fort Lee, N. J. Motion-pictures. No. 145,224; July 26; v. 288; p. 817.
- Smith, R. McD., & Sons, Louisiana, Mo. Salve for certain named ailments. No. 143,172; May 24; v. 286; p. 851.
- Smith, S. R., Company, Incorporated, Grantham, Pa. Spaghetti and macaroni. No. 139,631; Feb. 8; v. 283; p. 354.
- Smith Standard Company, The, Cleveland, Ohio. Live chicks. No. 141,680; Apr. 26; v. 285; p. 783.
- Smith, W. D., Silver Co., Chicago, Ill. Silverware, and particularly hollow ware and flat-ware. No. 148,714; Nov. 22.
- Smith, William A., New York, N. Y. Mouth-wash. No. 146,368; Sept. 6; v. 290; p. 203.
- Smooth-On Manufacturing Company, Jersey City, N. J. Sheet-packing containing comminuted iron and sheet-metal gaskets. No. 145,813; Aug. 16; v. 280; p. 597.
- Smooth-On Manufacturing Company, Jersey City, N. J. Adhesive tape for repair purposes and the like. No. 145,814; Aug. 16; v. 289; p. 598.
- Smooth-On Manufacturing Company, Jersey City, N. J. Substances used as a cement consisting chiefly of comminuted iron in powder and plastic form used as a cement. No. 146,877; Sept. 20; v. 290; p. 637.
- Smooth-On Manufacturing Company, Jersey City, N. J. Substances chiefly composed of comminuted iron in powder and plastic form for cementing, &c. No. 148,534; Nov. 15.
- Smyrna Fruit Company, New York, N. Y. Preserved figs packed in glass jars and sealed containers saturated with sugar and corn-syrup. No. 139,729; Feb. 15; v. 283; p. 641.
- Smyth, E. G. Co., St. Louis, Mo. Poultry feeds. No. 141,681; Apr. 26; v. 285; p. 783.
- Smyth, E. G., Co., St. Louis, Mo. Pancake-flour. No. 145,815; Aug. 16; v. 289; p. 598.
- Smythe, J. L. N., Company, The, Philadelphia, Pa. Paper. No. 144,281; June 28; v. 287; p. 777.
- Snap-On Wrench Company, Milwaukee, Wis. Wrench. No. 147,515; Oct. 18.
- Snappy Soldering Paste Co. Inc., The, Tonawanda, N. Y. Soldering-paste. No. 148,926; Nov. 29.
- Snively, Clarence O., Lebanon, Pa. Medicines. No. 140,216; Mar. 8; v. 284; p. 367.
- Snow, Harry M., Kalamazoo, Mich. Steam, hot-water and hot-air heaters and furnaces using gas or oil. No. 148,927; Nov. 29.
- Snyder, Andrew M., Hamilton, Ohio. Furniture and auto polish. No. 149,515; Dec. 13.
- Snyder, J. H., Med. Co., Jonesboro, Ark. Lotion for treating the complexion. No. 138,865; Jan. 11; v. 282; p. 378.
- Snyder, J. H., Med. Co., Jonesboro, Ark. Salve. No. 140,217; Mar. 8; v. 284; p. 367.
- Snyder, John E., Washington, D. C. Women's and misses' trimmed hats. No. 141,231; Apr. 12; v. 285; p. 384.
- Soak-Em Shaving Towel Company, Oakland, Calif. Cloth shaving-towels. No. 141,682; Apr. 26; v. 285; p. 783.
- Sobolewski, Joseph, East Boston, Mass. Medicine for diseases of the tongue, mouth, and legs of cattle and horses. No. 142,137; May 3; v. 286; p. 191.
- Soc. Prodotti chimico-farmaceutici A. Bertelli & C., Milan, Italy. Pills of essence of tar. No. 143,177; May 24; v. 286; p. 851.
- Sociedad Anónima "Romeo y Julieta," Fábrica de Tabacos, Habana, Cuba. Cigars. No. 149,808; Dec. 20.
- Société Anonyme A. André Fils, Paris, France. Oils and greases. No. 143,174; May 24; v. 286; p. 851.
- Société Anonyme De Luzy, Neuilly-sur-Seine, France. Perfumes, toilet water and powders, &c. No. 146,510; Sept. 6; v. 290; p. 216.
- Société Anonyme de Luzy, Neuilly-sur-Seine, France. Perfumes, toilet waters and powders, rouges, &c. No. 147,248; Oct. 4.
- Société Anonyme des Anciens Établissements Hotchkiss & Cie., St. Denis, France. Automobiles and certain named parts thereof. No. 138,866; Jan. 11; v. 282; p. 378.
- Société Anonyme des Anciens Établissements Sabatier Père et Fils, Thiers, France. Knives, carving sets, scissors, &c. No. 142,138; May 3; v. 286; p. 191.
- Société Anonyme des Établissements Esselbé, Levallois-Perret, France. Electrical apparatus, spark-coils, electric switches, &c. No. 141,232; Apr. 12; v. 285; p. 384.
- Société Anonyme des Papeteries de Champagne, Troyes, France. Cigarette-papers. No. 139,211; Jan. 25; v. 282; p. 736.
- Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Bleaching compounds and powders for cleaning linen, fabrics, &c. No. 139,889; Feb. 22; v. 283; p. 755.
- Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Blackings, polishes, &c. for leather articles and metal-polishes. No. 142,770; May 17; v. 286; p. 634.
- Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Polishes for all kinds of leather articles such as books, shoes, and harness. No. 143,474; May 31; v. 286; p. 1053.
- Société Anonyme Parfumerie Ramses, Paris, France. Rice-powder. No. 140,972; Mar. 29; v. 284; p. 948.
- Société Anonyme Parfumerie Ramses, Paris, France. Perfumes, rice powders, cologne-waters, dentifrices, &c. No. 143,173; May 24; v. 286; p. 851.
- Société Anonyme Parfumerie Ramses, Paris, France. Toilet, perfumed toilet, and household soaps. No. 148,265; Nov. 8.
- Société Anonyme Parfumerie Savonnerie Gilot, Paris, France. Perfumery, facial paints, dentifrices, and coloring-tinctures. No. 146,369; Sept. 6; v. 290; p. 203.
- Société Anonyme Tissage et Bonneterie de Troyes, Troyes, France. Clothing. No. 141,683; Apr. 26; v. 285; p. 783.
- Société Commerciale Peninsulaire Gillard & Adema, Seville, Spain. Olive-oil. No. 148,266; Nov. 8.
- Société D'Emboutissage et de Constructions Mécaniques, Colombes, France. Motorcycles. No. 144,478; July 5; v. 288; p. 195.
- Société Des Moteurs Gnome Et Rhone, Paris, France. Certain named heating apparatus. No. 139,395; Feb. 1; v. 283; p. 172.
- Société des Moteurs Gnome et Rhone, Paris, France. Electrical mechanism and apparatus. No. 141,233; Apr. 12; v. 285; p. 384.
- Société des Moteurs Gnome et Rhone, Paris, France. Instruments for use in navigation. No. 141,234; Apr. 12; v. 285; p. 384.
- Société des Moteurs Gnome et Rhone, Paris, France. Door, trunk, and safe locks, padlocks, &c. No. 142,771; May 17; v. 286; p. 634.
- Société des Moteurs Gnome et Rhone, Paris, France. House-filters, coolers, refrigerating apparatus, &c. No. 142,772; May 17; v. 286; p. 634.
- Société des Moteurs Gnome et Rhone, Paris, France. Motor-cars, vessels, boats, and rudders. No. 143,175; May 24; v. 286; p. 851.
- Société des Moteurs Gnome et Rhone, Paris, France. Machines for working on tissue, paper, leather, paste-board, and cloth. No. 143,176; May 24; v. 286; p. 851.
- Société des Moteurs Gnome et Rhone, Paris, France. Machinery and tools. No. 143,475; May 31; v. 286; p. 1053.
- Société Des Moteurs Gnome et Rhone, Paris, France. Automobiles. No. 144,477; July 5; v. 288; p. 195.
- Société Des Moteurs Gnome et Rhone, Paris, France. Nails, bolts, screws, metallic handles for furniture, &c. No. 144,476; July 5; v. 288; p. 195.
- Société d'Études Chimiques pour l'Industrie, Geneva, Switzerland. Fertilizer. No. 145,816; Aug. 16; v. 289; p. 598.
- Société Française des Tissus "Tetra," Paris, France. Sanitary towels made of woven cotton or linen fabric. No. 140,437; Mar. 15; v. 284; p. 583.
- Société Générale des Cirages Français, Paris, France. Polish for leather. No. 147,816; Nov. 1.
- Société Industrielle De Celluloid, Paris, France. Fans for personal use. No. 144,059; June 21; v. 287; p. 582.
- Société La Perle Saskia, Paris, France. Articles of jewelry. No. 142,333; May 10; v. 286; p. 406.
- Société Lyonnaise d'Industrie Mécaniques, Lyon-St. Claire-Caluire, France. Tractors. No. 148,535; Nov. 15.
- Société Lyonnaise d'Industrie Mécanique, Lyon-St. Claire-Caluire, France. Automobiles and lorries. No. 149,239; Dec. 6.
- Société Ricard Allenet & Cie., Melle, France. Furfuramid chemical product as well as all its compounds. No. 150,113; Dec. 27.



*Alphabetical list of registrants of trade-marks—Continued.*

- Society of Chemical Industry in Basle, Basel, Switzerland. Medicinal preparations. No. 142,139; May 3; v. 286; p. 191.
- Society of Chemical Industry in Basle, Basel, Switzerland. Certain pharmaceutical preparations to be used as an anthelmintic. No. 145,817; Aug. 16; v. 289; p. 598.
- Society of Chemical Industry in Basle, Basel, Switzerland. Pharmaceutical preparations. Nos. 146,003-4; Aug. 23; v. 289; p. 789.
- Society of Chemical Industry in Basle, Basel, Switzerland. Vitamin preparations, nerve-tonics, malt extracts, &c. Nos. 150,114-5; Dec. 27.
- Society of Chemical Industry in Basle, Basel, Switzerland. Coal-tar colors. No. 150,116; Dec. 27.
- Soderseine Company of North America, The, Wilmington, Del., and Brooklyn, N. Y. Certain medicinal preparation. No. 148,741; Nov. 22.
- Solene Products Company, Perkasio, Pa. Chemical preparation for the removal of road tar from auto-bodies. No. 149,508; Dec. 13.
- Sollod, Joseph A., Baltimore, Md. Preparation intended to remove corns, bunions, and callouses. No. 142,140; May 3; v. 286; p. 191.
- Solomon, Hamdt, Holliday, Mo. Medicinal preparation. No. 149,240; Dec. 6.
- Solomon, Samuel M., Chicago, Ill. Tooth-paste. No. 149,241; Dec. 6.
- Solomons, Harry & Son, New York, N. Y. Ladies' hats, trimmed and untrimmed. No. 144,941; July 19; v. 288; p. 623.
- Sommers, G., & Co., St. Paul, Minn. Knitted underwear. No. 140,973; Mar. 29; v. 284; p. 948.
- Sonneborn Brothers, New York, N. Y. Suits for young men and boys. No. 148,536; Nov. 15.
- Sonneborn Sons Inc., L., New York, N. Y. Paint. No. 147,444; Oct. 11.
- Sonny Blouse Co. Inc., The, New York, N. Y. Articles of clothing. No. 140,438; Mar. 15; v. 284; p. 583.
- Sonny Manufacturing Co., Milwaukee, Wis. Boys' blouses, play-suits or rompers, shirts, and knickerbockers. No. 145,582; Aug. 9; v. 279; p. 408.
- Sonora, Inc., New York, N. Y. Pianos. No. 140,974; Mar. 29; v. 284; p. 948.
- Sonora, Inc., New York, N. Y. Talking-machines, phonographs, and music-boxes. Nos. 145,905-19; Aug. 16; v. 289; pp. 603-5.
- Sonora, Inc., New York, N. Y. Talking-machines, phonographs, talking-machine needles, &c. No. 147,737; Oct. 25.
- Sonora, Inc., New York, N. Y. Talking-machine and phonographs. No. 149,614; Dec. 13.
- Soper, George F., Philadelphia, Pa. Marking-crayon. No. 146,511; Sept. 6; v. 290; p. 216.
- Soper, Harry S., Patchogue, N. Y. Medicinal preparation to be used as a liniment. No. 140,218; Mar. 8; v. 284; p. 367.
- Sophie Mae Candy Corporation, The, Atlanta, Ga. Candy. No. 148,896; Nov. 29.
- Sords, Mary A., Cleveland, Ohio. Preparation for the treatment of diseases of the throat and lungs. No. 146,005; Aug. 23; v. 289; p. 789.
- Sornin & Discry, Eterbeek-Brussels, Belgium. Device for use in writing. No. 142,773; May 17; v. 286; p. 634.
- Sorokowski, Joseph, Chicago, Ill. Medicine for rheumatism. No. 143,476; May 31; v. 286; p. 1053.
- Sorvan Company, The, Tyrone, Pa. Medicinal ointment or cream for the feet. No. 142,141; May 3; v. 286; p. 191.
- Soter, F. & E., Corp., New York, N. Y. Cigarettes. No. 144,282; June 28; v. 287; p. 777.
- South Bend Asphalt Roofing Co., South Bend, Ind. Prepared sheet-roofing. No. 146,878; Sept. 20; v. 290; p. 637.
- South & Central American Commercial Co., Inc., New York, N. Y. Cotton, wool, silk, &c., piece goods. No. 145,226; July 26; v. 288; p. 817.
- South, Jerome J., Memphis, Tenn. Lubricating motor-oil, cup-greases, &c. No. 148,929; Nov. 29.
- South Metropolitan Gas Company, London, England. Fertilizers, being sulfates. No. 142,142; May 3; v. 286; p. 191.
- South Porto Rico Sugar Company, New York, N. Y. Sugar. No. 146,879; Sept. 20; v. 290; p. 637.
- Southard, Walter P., Rocky River, Ohio. Letter-heads, circulars, and the like. No. 145,225; July 26; v. 288; p. 817.
- Southern Agricultural Chemical Corporation, Richmond, Va. Sulfuric acid. No. 146,880; Sept. 20; v. 290; p. 637.
- Southern Beverage Company, Galveston, Tex. non-alcoholic beverages in the form of a syrup or carbonated in bottles. No. 144,420; July 5; v. 288; p. 193.
- Southern Beverage Company, Galveston, Tex. Root-beer. No. 148,715; Nov. 22.
- Southern California Hardware and Manufacturing Company, Los Angeles, Calif. Phonographs, phonograph-record ejectors, and phonograph-record ejectors mounted in cabinets. No. 144,942; July 19; v. 288; p. 623.
- Southern Chemical Company, Baltimore, Md. Antiseptic, disinfectant, and deodorant. No. 138,707; Jan. 4; v. 282; p. 189.
- Southern Cotton Oil Company, The, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga.; Chicago, Ill. Edible oil. Nos. 138,708-9; Jan. 4; v. 282; p. 189.
- Southern Cotton Oil Company, The, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga.; and Chicago, Ill. Peanut-butter. No. 142,143; May 3; v. 286; p. 191.
- Southern Cotton Oil Company, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Prepared fatty oleaginous or unctuous food substance. No. 145,013; July 19; v. 288; p. 629.
- Southern Export Corporation, New York, N. Y. Piece goods. No. 140,683; Mar. 22; v. 284; p. 747.
- Southern Export Corporation, New York, N. Y. Silk hosiery-yarns. No. 141,684; Apr. 26; v. 285; p. 783.
- Southern Export Corporation, New York, N. Y. Hosiery. No. 144,060; June 21; v. 287; p. 582.
- Southern Illinois Milling & Elevator Co., Murphysboro, Ill. Self-rising wheat-flour. No. 143,477; May 31; v. 286; p. 1053.
- Southern Motor Manufacturing Association, Ltd., Houston, Tex. Tractors. No. 139,890; Feb. 22; v. 283; p. 755.
- Southern Olive Oil Co., New York, N. Y. Olive-oil. No. 139,632; Feb. 8; v. 283; p. 354.
- Southern Paving Gravel Company, Savannah, Ga. Gravel. No. 146,512; Sept. 6; v. 290; p. 216.
- Southern Produce Company, Norfolk, Va. Vegetables. No. 148,537; Nov. 15.
- Southern & Richardson, Sheffield, England. Razors. No. 140,059; Mar. 1; v. 284; p. 178.
- Southern & Richardson Limited, Sheffield, England. Cutlery and edge-tools. No. 142,144; May 3; v. 286; p. 191.
- Southern Spring Bed Company, Atlanta, Ga. Mattresses. No. 142,774; May 17; v. 286; p. 634.
- Southern Spring Bed Co., Atlanta, Ga. Mattresses, iron and brass beds, and bed-springs. No. 150,117; Dec. 27.
- Southern Supply Company, Camden, N. J., and Baltimore, Md. Certain named plumbing and steam-fitting supplies. No. 139,212; Jan. 25; v. 282; p. 736.
- Southern Wood Preserving Co., Atlanta, Ga. Wooden posts, cross-arms, conduits, &c. No. 138,710; Jan. 4; v. 282; p. 189.
- Southland Steamship Company, Wilmington, Del. Electric searchlights and electric-lighting outfits and fixtures. No. 147,516; Oct. 18.
- Southwestern Milling Company, Inc., The, New York, N. Y. Wheat-flour. No. 146,142; Aug. 30; v. 289; p. 1015.
- Southwestern Milling Company, Inc., The, New York, N. Y. Wheat-flour. No. 148,771; Nov. 22.
- Southwick, George W., Stamford, Conn. Cotton belt-lacing. No. 147,517; Oct. 18.
- Southwick, Uri B., Chelan, Wash. Salve possessing disinfecting and healing properties. No. 147,409; Oct. 11.
- Spaeth, George F., New York, N. Y. Medicinal and toilet preparations. No. 143,478; May 31; v. 286; p. 1053.
- Spaide Shirt Company, The, Butler, Pa. Work-shirts, overalls, dress and play shirts. No. 143,178; May 24; v. 286; p. 851.
- Spalding, A. G., & Bros., New York, N. Y. Golf-clubs. No. 148,930; Nov. 29.
- Spangenberg & Co., Chicago, Ill. Eggs and butter. No. 144,670; July 12; v. 288; p. 429.
- Spanish American Fruit Co., Inc., Plainfield, N. J. Canned grapefruit. No. 149,615; Dec. 13.
- Sparhawk, Charles V., Inc., New York, N. Y. Food-flavoring oils and extracts. No. 147,884; Nov. 1.
- Sparks Milling Company, Terre Haute, Ind. Wheat-flour. No. 147,037; Sept. 27; v. 290; p. 806.
- Sparta, Angelo, Hoboken, N. J. Blood-purifier. No. 139,891; Feb. 22; v. 283; p. 755.
- Spatz and Spannuth, Inc., Reading, Pa. Hosiery for men, women, and children. No. 140,684; Mar. 22; v. 284; p. 747.
- Spaulding, J., & Sons Inc., Boston, Mass. Counters for boots and shoes. No. 139,100; Jan. 18; v. 282; p. 561.
- Spaulding, Perry D., Boston, Mass. Preparation indicated in all forms of inflammation and irritation of the eyes. No. 146,881; Sept. 20; v. 290; p. 637.
- Special Pictures Corporation, Los Angeles, Calif. Moving-picture films. No. 140,439; Mar. 15; v. 284; p. 583.
- Special Pictures Corporation, Los Angeles, Calif. Moving-picture films. No. 140,975; Mar. 29; v. 284; p. 948.
- Specialty Baking Co., Inc., New York, N. Y. Bread. No. 143,264; May 24; v. 286; p. 858.
- Specialty Knit Goods Manufacturing Co., Brooklyn, N. Y. Knitted fabrics of wool. No. 141,685; Apr. 26; v. 285; p. 783.
- Specific Remedy Company, Cincinnati, Ohio. Preparation for bathing the feet. No. 138,711; Jan. 4; v. 282; p. 189.
- Speedautomatic Company, The, Chicago, Ill. Folding, wrapping, addressing, and mailing machines, &c. No. 144,061; June 21; v. 287; p. 582.
- Speltz Grain & Coal Co., Albert Lea, Minn. Coal. No. 139,396; Feb. 1; v. 283; p. 172.
- Spence, Peter, & Sons, Limited, Manchester, England. Titanium sulfate. No. 145,818; Aug. 16; v. 289; p. 598.



- Spence, William E., New York, N. Y. Laundry blue. No. 148,267; Nov. 8.
- Spencer, George C., South Bend, Ind. Perfumes. No. 139,397; Feb. 1; v. 283; p. 172.
- Spencer, George C., South Bend, Ind. Perfumes. No. 145,920; Aug. 16; v. 289; p. 605.
- Spencer Turbine Company, The, West Hartford, Conn. Vacuum-cleaners with tools and appurtenances and turbo-compressors. No. 140,976; Mar. 29; v. 284; p. 948.
- Spencer, W. M., Sons Co., Cincinnati, Ohio. Jellies, fruits, preserves, jams, and sweet pickles. No. 145,462; Aug. 2; v. 289; p. 182.
- Sperry Flour Company, San Francisco, Vallejo, Stockton, Fresno, Paso Robles, and Los Angeles, Calif., and Tacoma, Creston, and Spokane, Wash. Pancake-flour. No. 139,398; Feb. 1; v. 283; p. 172.
- Sphinx Gramophone Motors, Inc., New York, N. Y. Phonographs and parts thereof. No. 139,892; Feb. 22; v. 283; p. 755.
- Spice Mill Publishing Co., The, New York, N. Y. Monthly journal. Nos. 143,748-9; June 7; 287; p. 187.
- Spicehandler, Charles, New York, N. Y. Cotton thread. No. 139,399; Feb. 1; v. 283; p. 172.
- Spicehandler, Charles, New York, N. Y. Cotton thread. Nos. 141,235-6; Apr. 12; v. 285; p. 384.
- Spicehandler, Charles, New York, N. Y. Cotton thread. No. 143,479; May 31; v. 286; p. 1053.
- Spicer, Oliver W., Colorado Springs, Colo. Tablets for la grippe and colds. No. 139,037; Jan. 18; v. 282; p. 556.
- Spies, George A., Lowell, Ohio. Furniture—viz., library-tables. No. 147,410; Oct. 11.
- Spiewak, T., & Sons, New York, N. Y. Suits, overcoats, and trousseurs for men and boys. No. 147,411; Oct. 11.
- Spiro Spark Plug Co., Anderson, Ind. Spark-plugs. No. 148,268; Nov. 8.
- Spitz, Fannie S., Albuquerque, N. Mex. Shelled, raw, roasted, and salted piñon-nuts. No. 138,867; Jan. 11; v. 282; p. 378.
- Splittorf Electrical Company, Newark, N. J. Electric switches, magneto and dynamo electric machines. No. 141,440; Apr. 19; v. 285; p. 569.
- Spoehr's, Chicago, Ill. Candy. No. 146,143; Aug. 30; v. 289; p. 1015.
- Spoehr's, Chicago, Ill. Candy. Nos. 146,882-4; Sept. 20; v. 290; pp. 637-8.
- Spoehr's, Chicago, Ill. Candy. Nos. 149,242-3; Dec. 6.
- Spokane Dry Goods Company, Spokane, Wash. Overalls, overall coats and suits. No. 146,518; Sept. 6; v. 290; p. 216.
- Spokane Dry Goods Company, Spokane, Wash. Mackinaws and overcoats. No. 149,244; Dec. 6.
- Sponberg, Gustave, Pocatello, Idaho. Coffee. No. 143,265; May 24; v. 286; p. 858.
- Sponberg, Gustave, Pocatello, Idaho. Coffee, tea, spices, flavoring extracts for food. No. 143,266; May 24; v. 286; p. 858.
- Spoon and Straw, Inc., The, Chicago, Ill. Candies, ice-cream, lunches, and cakes. No. 144,943; July 19; v. 288; p. 623.
- Spooner, Jacob J., New York, N. Y. Talcum and face powders, perfumes, and bath-salts. No. 149,245; Dec. 6.
- Sprague Roller Mills, Sprague, Wash. Wheat-flour and self-rising flour. Nos. 139,633-4; Feb. 8; v. 283; p. 354.
- Sprague Tire and Rubber Company, Omaha, Nebr. Inner tubes, cord and fabric tires. No. 141,049; Mar. 29; v. 284; p. 953.
- Sprague, Warner & Company, Chicago, Ill. Laundry soap. No. 141,237; Apr. 12; v. 285; p. 384.
- Spreckels "Savage" Tire Company, The, San Diego, Calif. Rubber and rubber composition tires and tubes. No. 146,370; Sept. 6; v. 290; p. 203.
- Springville Canning Co., The, Springville, N. Y. Canned fruits and vegetables. No. 139,957; Feb. 22; v. 283; p. 764.
- Spyroscel Manufacturing Company, St. Louis, Mo. Piston-rings. No. 150,118; Dec. 27.
- Squier, George C., Springfield, Mass., assignor to Joseph A. Hoegger, Jersey City, N. J. Bathroom fixtures and accessories. No. 143,480; May 31; v. 286; p. 1053.
- Sta-Erite Manufacturing Co., Kansas City, Mo. Shoe and metal polish. No. 139,958; Feb. 22; v. 283; p. 761.
- Sta-Erite Manufacturing Co., Kansas City, Mo. Polishes. No. 140,717; Mar. 22; v. 284; p. 751.
- Sta-Erite Manufacturing Company, Seattle, Wash. Automobile-body polish. No. 142,145; May 3; v. 286; p. 191.
- Stacy-Adams Company, Brockton, Mass. Boots and shoes. No. 150,119; Dec. 27.
- Stadeker, Gilbert L., Chicago, Ill. Treads for automobile-pedals. No. 147,249; Oct. 4.
- Stafford Flour Mills Co., Stafford, Kans. Wheat-flour. No. 147,445; Oct. 11.
- Stafford Flour Mills Co., Stafford, Kans. Wheat-flour. No. 149,246; Dec. 6.
- Stafford, Leslie, La Salle, Ill. Inner-tube-repair kits. No. 149,247; Dec. 6.
- Stahl, Harry, Seattle, Wash. Bread, biscuits, and cakes. No. 150,120; Dec. 27.
- Staley, A. E., Manufacturing Company, Decatur, Ill. Syrups for table use. No. 142,777; May 17; v. 286; p. 634.
- Stamped Specialties Company, (now by change of name John R. Lanckenau Company,) Boston, Mass. Towels of textile material. No. 146,934; Sept. 20; v. 290; p. 642.
- Stampede Company, The, St. Paul, Minn. Candy. No. 139,038; Jan. 18; v. 282; p. 556.
- Standard Asphalt & Refining Company, Jersey City, N. J., and Chicago, Ill. Bituminous putties. No. 149,509; Dec. 13.
- Standard Check Book Co., Inc., Richmond, Va. Check-books. No. 147,518; Oct. 18.
- Standard Chemical Co., (now by change of name Eastbay Chemical Company,) Emeryville, Calif. Compounds for cooling the tools of metal-cutting machinery. No. 143,481; May 30; v. 286; p. 1053.
- Standard Concrete Apparatus Co., Washington, D. C. Concrete-testing molds. No. 141,238; Apr. 12; v. 285; p. 384.
- Standard Corrugated Box Co., St. Louis, Mo. Strawboard boxes. No. 147,885; Nov. 1.
- Standard Felt Company, West Alhambra, Calif. Felt in the piece. No. 140,440; Mar. 15; v. 284; p. 583.
- Standard Four Tire Company, Keokuk, Iowa. Pneumatic rubber tires for vehicles and rubber inner tubes for tires. No. 145,820; Aug. 16; v. 289; p. 598.
- Standard Four Tire Company, Keokuk, Iowa. Rubber tires and inner tubes. No. 145,821; Aug. 16; v. 289; p. 598.
- Standard Imports Limited, Montreal, Quebec, Canada. Hops. No. 141,239; Apr. 12; v. 285; p. 384.
- Standard Manufacturing Company, Cedar Key, Fla. Whisk-brooms manufactured of palmetto fiber. No. 139,214; Jan. 25; v. 282; p. 736.
- Standard Milling Company of New York, Inc., New York, N. Y. Wheat-flour. No. 144,283; June 28; v. 287; p. 777.
- Standard Music Roll Co., Orange, N. J. Music-rolls. No. 144,635; July 12; v. 288; p. 425.
- Standard Oil Company, Bayonne, N. J. Petroleum. No. 143,189; May 24; v. 286; p. 851.
- Standard Oil Company, Bayonne, N. J. Liquid fuel-oil. No. 145,822; Aug. 16; v. 289; p. 598.
- Standard Oil Company, Bayonne, N. J. Petroleum-oil. No. 149,248; Dec. 6.
- Standard Oil Company, Bayonne, N. J., and New York, N. Y. White mineral oil. No. 149,249; Dec. 6.
- Standard Oil Company, Bayonne, N. J. A mineral oil primarily used in the preparation of cold-cream. No. 150,122; Dec. 27.
- Standard Oil Company of New York, New York, N. Y. Lubricating-oil. No. 139,635; Feb. 8; v. 283; p. 354.
- Standard Oil Company of New York, New York, N. Y. Harness-oil. No. 139,636; Feb. 8; v. 283; p. 354.
- Standard Oil Company of New York, New York, N. Y. Crayons. No. 141,686; Apr. 26; v. 285; p. 783.
- Standard Oil Company of New York, New York, N. Y. Soap. No. 142,775; May 17; v. 286; p. 634.
- Standard Oil Company of New York, New York, N. Y. Lamp chimneys and reservoirs. No. 143,179; May 24; v. 286; p. 851.
- Standard Oil Company of New York, New York, N. Y. Stoves, heaters, lamps, lanterns, &c. No. 143,482; May 31; v. 286; p. 1053.
- Standard Oil Company of New York, New York, N. Y. Asphaltum. No. 144,944; July 19; v. 288; p. 623.
- Standard Oil Company of New York, New York, N. Y. Petroleum products for lubricating, illuminating, heating, and power purposes. No. 150,123; Dec. 27.
- Standard Oil Company, San Francisco, Calif. Flushing-oil. No. 149,736; Dec. 20.
- Standard Oil Company, San Francisco, Calif. Flushing-oil. No. 150,121; Dec. 27.
- Star Oil Company, The, Chicago, Ill. Lubricating oils and greases. No. 149,803; Dec. 20.
- Standard Overall Company, Baltimore, Md. Overalls and work-shirts. No. 148,538; Nov. 15.
- Standard Paper Mfg. Co., Richmond, Va. Blotting-paper. No. 144,946; July 19; v. 288; p. 623.
- Standard Pencil Co., St. Louis, Mo. Lead-pencils. No. 143,180; May 24; v. 286; p. 851.
- Standard Register Company, The, Dayton, Ohio. Autograph-registers. Nos. 140,060-61; Mar. 1; v. 284; p. 178.
- Standard Sanitary Specialties Company, Inc., Jersey City, N. J. Shaving-cream to be used before shaving. No. 144,945; July 19; v. 288; p. 623.
- Standard Shortwriter Sales Company, Chicago, Ill. Type-writing-machines. No. 144,147; June 21; v. 287; p. 590.
- Standard Steel Car Company, Pittsburgh, Pa. Automobiles and motor-trucks. No. 141,057; Apr. 5; v. 285; p. 187.
- Standard Tar Products Co., Milwaukee, Wis. Wood-preserved and fly-sprays. No. 148,269; Nov. 8.
- Standard Textile Products Company, The, Youngstown, Ohio, and New York, N. Y. Cotton piece goods. No. 143,483; May 31; v. 286; p. 1053.
- Standard Tilton Milling Co., St. Louis, Mo. Wheat-flour. No. 142,776; May 17; v. 286; p. 634.
- Standard Tire Company, The, Willoughby, Ohio. Rubber vehicle-tires. No. 145,819; Aug. 16; v. 289; p. 598.



*Alphabetical list of registrants of trade-marks—Continued.*

- Standard Union Company, Boston, Mass.** Pipe joints or couplings made of iron, steel, brass, or other metals. No. 139,400; Feb. 1; v. 283; p. 172.
- Standard Varnish Works, New York, N. Y.** Dry, ready-mixed, and paste paints, varnishes, &c. No. 147,170; Oct. 4.
- Standard Ventilator Company, Lewisburg, Pa.** Ventilators and chimney-caps. No. 145,015; July 19; v. 288; p. 629.
- Stanley A. Richardson, Dorchester, Mass.** Medicinal treatment for rheumatism, &c. No. 142,146; May 3; v. 286; p. 191.
- Stanley Insulating Company, Great Barrington, Mass.** Vacuum-jacketed receptacles. No. 147,519; Oct. 18.
- Stanley, John T., Co. Incorporated, New York, N. Y.** Soap. No. 139,401; Feb. 1; v. 283; p. 172.
- Stanley Works, The, New Britain, Conn.** Certain tools. No. 147,692; Oct. 25.
- Stanley Works, The, New Britain, Conn.** Certain precision-tools for mechanics. No. 148,270; Nov. 8.
- Stanley Works, The, New Britain, Conn.** Planes. No. 147,693; Oct. 25.
- Staples & Staples, Inc., Richmond, Va.** Budget-books of a blank nature. No. 139,215; Jan. 25; v. 282; p. 736.
- Star Company, New York, N. Y.** Series or succession of comic drawings or pictures. Nos. 140,220-2; Mar. 8; v. 284; p. 367.
- Star Company, New York, N. Y.** *Nom de plume* used on newspaper articles. No. 147,412; Oct. 11.
- Star Extract Works, New York, N. Y.** Non-cereal maltless beverages and syrups therefor. No. 139,637; Feb. 8; v. 283; p. 354.
- Star Extract Works, New York, N. Y.** Flavoring compound extract for ice-cream. No. 147,171; Oct. 4.
- Star Refining Company, Fort Worth, Tex.** Motor-oils. No. 139,638; Feb. 8; v. 283; p. 354.
- Star Rubber Company, Akron, Ohio.** Pneumatic and solid rubber tires for vehicles and accessories used in automobile trade. No. 140,223; Mar. 8; v. 284; p. 367.
- Star Watch Case Co., Ludington, Mich.** Watches and watch parts. Nos. 140,718-20; Mar. 22; v. 284; p. 751.
- Star Watch Case Co., Ludington, Mich.** Watch-pendants. No. 140,721; Mar. 22; v. 284; p. 751.
- Star Watch Case Co., Ludington, Mich.** Watches and watch parts. No. 144,634; July 12; v. 288; p. 425.
- Starchroom Publication Company, Cincinnati, Ohio.** Weekly periodicals. No. 144,062; June 21; v. 287; p. 582.
- Starkey, Selo M., New Brunswick, N. J.** Non-alcoholic maltless beverages and cider. No. 140,978; Mar. 29; v. 284; p. 949.
- Starkey, Selo M., New Brunswick, N. J.** Vinegar. No. 143,181; May 24; v. 286; p. 851.
- Starr Piano Company, The, Richmond, Ind.** Phonographs. No. 140,977; Mar. 29; v. 284; p. 949.
- Starr Piano Company, The, Richmond, Ind.** Phonographs and records for same. No. 141,810; Apr. 26; v. 285; p. 793.
- Starrett, L. S., Company, Athol, Mass.** Tap, drill, and wire gages. No. 147,250; Oct. 4.
- Startit Manufacturing Company, The, Indianapolis, Ind.** Electrical fuel-heaters for explosion-engines. No. 144,947; July 19; v. 288; p. 623.
- State Leaf Tobacco Co., The, New York, N. Y.** Cigar-boxes. No. 149,510; Dec. 13.
- State of New York, Saratoga Springs, N. Y.** Natural mineral water. Nos. 146,609-11; Sept. 13; v. 290; p. 422.
- State of New York, Saratoga Springs, N. Y.** Natural mineral water. No. 148,539; Nov. 15.
- State of New York, Saratoga Springs, N. Y.** Natural mineral water. No. 150,124; Dec. 27.
- Stathopoulos Epaminondas, A., New York, N. Y.** Musical instruments. No. 140,685; Mar. 22; v. 284; p. 747.
- Statite Waterproofing Products Co. Inc., Wilmington, Del., and New York, N. Y.** Waterproof liquid for certain fabrics. No. 150,125; Dec. 27.
- Stauber Manufacturing Co., The, Clinton, Iowa.** Garments for women and children—namely, aprons and dresses. No. 148,742; Nov. 22.
- Stauffer, Abram G., Harrisburg, Pa.** Polish for furniture, automobile-bodies, hardwood floors, &c. No. 139,894; Feb. 22; v. 283; p. 755.
- Ste. Ame. des Anciens Etablissements A. Combe & Fils & Cle., Paris, France.** Leathers and skins. No. 142,334; May 10; v. 286; p. 406.
- Sté. An. pour l'Exploitation de Jouets S. A. J., Paris, France.** Toys comprising construction toys, toy railroads and their accessories, &c. No. 146,006; Aug. 23; v. 289; p. 789.
- Sté. Anonyme des Produits Dorilly, Paris, France.** Certain toilet preparations. No. 149,250; Dec. 6.
- Stead, William T., Memorial Center, The, Chicago, Ill.** Mechanical writing device in the nature of a ouija-board. No. 139,639; Feb. 8; v. 283; p. 354.
- Steam Electric Products Company, The, Cleveland, Ohio.** Electric heating devices and control therefor. No. 139,895; Feb. 22; v. 283; p. 755.
- Stearn, Jacob, & Sons, Philadelphia, Pa.** Tallow, oleo-oil, and oleo-stearin. No. 139,216; Jan. 25; v. 282; p. 736.
- Stearns' Electric Paste Co., Chicago, Ill.** Rat and roach paste. No. 144,063; June 21; v. 287; p. 582.
- Stearns & Foster Company, The, Lockland, Ohio.** Jute and cotton bats. No. 146,885; Sept. 20; v. 290; p. 638.
- Stearns & Foster Company, The, Lockland, Ohio.** Cotton-batting. Nos. 147,062-4; Sept. 27; v. 290; p. 809.
- Stearns & Foster Company, The, Lockland, Ohio.** Cotton-batting, particularly glazed cotton wadding. Nos. 149,616-19; Dec. 13.
- Stearns & Foster Company, The, Lockland, Ohio.** Cotton-batting. Nos. 150,126-32; Dec. 27.
- Stearns, Frederick, & Company, Detroit, Mich.** Medicine for coughs, colds, and bronchial affections. No. 145,823; Aug. 16; v. 289; p. 598.
- Stearns-Hollinshead Co., Portland, Oreg.** Cough-candies. No. 139,896; Feb. 22; v. 283; p. 755.
- Stearns-Hollinshead Co., Portland, Oreg.** Antiseptic mouth-wash and gargle. No. 139,897; Feb. 22; v. 283; p. 755.
- Stearns McKay Manufacturing Co., Marblehead, Mass.** Ready-mixed paints. No. 142,147; May 3; v. 286; p. 191.
- Steel, Herman D., Philadelphia, Pa.** Meter, watch, and industrial jewels and synthetic and natural cut stones. No. 147,694; Oct. 25.
- Steelduct Company, The, Youngstown, Ohio.** Pipes or electric conduits to carry electric wires. No. 147,695; Oct. 25.
- Steere, W. V. and L. M., Boston, Mass.** Candy—namely, fudge. No. 146,371; Sept. 6; v. 290; p. 203.
- Steffen, Frank, Dayton, Ohio.** Assorted candies, comprising taffies, chocolate creams, &c. No. 140,441; Mar. 15; v. 284; p. 583.
- Steffens, George V., Paper Box Co., St. Louis, Mo.** Paper boxes, razor and shear cases, and cutlery-display boxes. No. 146,886; Sept. 20; v. 290; p. 638.
- Stehli Silks Corporation, New York, N. Y.** Silks in the piece. No. 146,146; Aug. 30; v. 289; p. 1015.
- Steigman, Mitchell, San Francisco, Calif.** Phonographs. No. 147,818; Nov. 1.
- Stein, A., & Company, Chicago, Ill.** Combined waists and garters. No. 139,403; Feb. 1; v. 283; p. 172.
- Stein, A., & Company, Chicago, Ill.** Garters and hose-supporters. No. 139,402; Feb. 1; v. 283; p. 172.
- Stein, A., & Company, Chicago, Ill.** Garters. No. 147,696; Oct. 25.
- Stein, Henry J., Boston, Mass.** Syrups, flavors, and flavoring extracts for soft drinks. No. 148,931; Nov. 29.
- Stein, Jacob, New York, N. Y.** Dress-shields. No. 138,712; Jan. 4; v. 282; p. 189.
- Stein, Jacob, New York, N. Y.** Baby-pants and aprons. No. 148,743; Nov. 22.
- Stein, John J., Chicago, Ill., assignor to Northwestern Coat Company, Incorporated.** Certain articles of clothing for physicians, dentists, their assistants, and patients. No. 147,697; Oct. 25.
- Stein, Leon, New York, N. Y.** Hair-nets. No. 147,819; Nov. 1.
- Steiner Manufacturing Company, Long Island City, N. Y.** Hydrometer apparatus consisting of a hydrometer and container and filler therefor. No. 140,979; Mar. 29; v. 284; p. 949.
- Steinfeld Bros., New York, N. Y.** Velocipedes, tricycles, and bicycles for children's use. No. 140,722; Mar. 22; v. 284; p. 751.
- Steinhardt & Bro., New York, N. Y.** Hair-curlers. No. 145,292; July 26; v. 288; p. 825.
- Steinhardt, William, New York, N. Y.** Shoes. No. 146,514; Sept. 6; v. 290; p. 216.
- Steinhauser, Elliott, Watsonville, Calif.** Malt beverages. No. 142,778; May 17; v. 286; p. 634.
- Steinhoff, A. W., Munising, Mich.** Medicinal preparation. No. 141,050; Mar. 29; v. 284; p. 954.
- Steinway & Sons, New York, N. Y.** Pianos. No. 141,687; Apr. 26; v. 285; p. 783.
- Steitz, Edward G., St. Louis, Mo.** Plant food. No. 142,779; May 17; v. 286; p. 634.
- Stember, John, & Co., Inc., New York, N. Y.** Pocketbooks. No. 147,520; Oct. 18.
- Stephania Ario, Brooklyn, N. Y.** Preparation for the treatment of lumbago and rheumatism. No. 146,065; Aug. 30; v. 289; p. 1013.
- Stephens & Wilkes, Inc., New York, N. Y.** Oiled cloth. No. 144,064; June 21; v. 287; p. 582.
- Steppacher, Walter M., & Bro., Inc., Philadelphia, Pa.** Children's collars, shirts, blouses, &c. No. 149,251; Dec. 6.
- Sterling Engine Co., Buffalo, N. Y.** Internal-combustion engines. No. 140,299; Mar. 8; v. 284; p. 374.
- Sterling Motor Truck Company, Milwaukee, Wis.** Motor-trucks. No. 140,062; Mar. 1; v. 284; p. 179.
- Sterling Pure Food Co. Inc., Brooklyn, N. Y.** Puddings and desserts in prepared form. No. 141,442; Apr. 19; v. 285; p. 569.
- Sterling Shoes Corporation, Buffalo, N. Y.** Boots and shoes. No. 146,887; Sept. 20; v. 290; p. 638.
- Stern Brothers, New York, N. Y.** Corsets. No. 141,688; Apr. 26; v. 285; p. 783.
- Stern, Joseph A., New York, N. Y.** Composition of matter for preserving and waterproofing leather. No. 141,051; Mar. 29; v. 284; p. 954.
- Stern, Louis, Long Branch, N. J.** Bread. No. 140,443; Mar. 15; v. 284; p. 583.



- Sterne, Abram F., Wilkes-Barre, Pa. Certain articles of clothing. No. 144,065; June 21; v. 287; p. 582.
- Stetson, George A., Boston, Mass. Heel and arch cushions for shoes. No. 147,413; Oct. 11.
- Stetson, John B., Company, Philadelphia, Pa. Hats and caps for men and boys. No. 139,746; Feb. 15; v. 283; p. 544.
- Stetson, John B., Company, Philadelphia, Pa. Soft and stiff felt hats and caps for men and boys. Nos. 139,959-60; Feb. 22; v. 283; p. 764.
- Stetson, John B., Company, Philadelphia, Pa. Soft and stiff felt hats and caps for men and boys. Nos. 143,184-5; May 24; v. 286; p. 851.
- Stetson, John B., Company, Philadelphia, Pa. Felt hats and caps for men and boys. No. 143,525; May 31; v. 286; p. 1056.
- Stetson, John B., Company, Philadelphia, Pa. Soft and stiff felt hats and caps for men and boys. Nos. 145,824-6; Aug. 16; v. 289; p. 598.
- Stetson, John B., Company, Philadelphia, Pa. Soft and stiff felt hats and caps for men and boys. No. 147,464; Oct. 18.
- Steudel, Erich, assignor to Self-Locking Carton Company, Chicago, Ill. Bands for wrapping cake and pie. No. 143,872; June 14; v. 287; p. 402.
- Stevens & Company, Inc., Providence, R. I. Ophthalmic mountings and parts thereof. No. 148,271; Nov. 8.
- Stevens-Duryea, Inc., Chicopee Falls, Mass. Automobiles. No. 139,101; Jan. 18; v. 282; p. 561.
- Stevens-Duryea, Inc., Chicopee, Mass. Automobiles. No. 145,463; Aug. 2; v. 289; p. 182.
- Stevens Manufacturing Co., Fall River, Mass. Bedspreads. No. 145,583; Aug. 9; v. 289; p. 408.
- Stevens & Thompson Paper Company, Greenwich, N. Y. Paper towels. No. 149,252; Dec. 6.
- Stevens Yarn Company, Inc., New York, N. Y. Thread and yarn. No. 147,465; Oct. 18.
- Stevenson Gear Company, Indianapolis, Ind. Machines for forming polygonal articles, gears, &c., and gears and other machine elements. No. 147,698; Oct. 25.
- Stevenson Overall Company, The, Portland, Ind. Overalls and union work-suits. No. 140,980; Mar. 29; v. 284; p. 949.
- Stevenson, T. W., Company, Minneapolis, Minn. Hats and caps for men and boys. No. 147,414; Oct. 11.
- Stewart, F. W., Manufacturing Corporation, Chicago, Ill. Replacement parts for speedometers. No. 147,466; Oct. 18.
- Stewart, Mrs. Florence, Glencoe, Ill. Silver-polish. No. 147,415; Oct. 11.
- Stewart, Fred A., San Jose, Calif. Transparent book and document mending tissue. No. 145,227; July 26; v. 288; p. 817.
- Stewart Hog Ring Company, Paris, Ill. Nose-rings for animals. No. 144,479; July 5; v. 288; p. 195.
- Stewart-Skinner Company, Worcester, Mass. Machinery and tools. No. 149,511; Aug. 13.
- Stewart-Warner Speedometer Corporation, Chicago, Ill. Light-diffusers made of glass, commercially known as diffusing-bowls. No. 138,869; Jan. 11; v. 282; p. 378.
- Stickalene Company Incorporated, Portland, Me., and Boston, Mass. Stick-mucilage. No. 138,870; Jan. 11; v. 282; p. 378.
- Stieglitz, A., & Co. Inc., New York, N. Y. Underwear of woven and textile fabrics. No. 140,981; Mar. 29; v. 284; p. 949.
- Stifel, J. L., & Sons, Wheeling, W. Va. Printed cotton piece goods. No. 138,923; Jan. 11; v. 282; p. 382.
- Stillwell, E. J., Paper Company, St. Paul, Minn. Wrapping and writing paper. No. 144,637; July 12; v. 288; p. 426.
- Stim-U-Plant Tablet Co., Newark, N. J., assignor to F. L. Pruyn, New York, and J. B. Goldsborough, Croton-on-the-Hudson, N. Y. Plant food in tablet form. No. 149,512; Dec. 13.
- Stix, Louis, Co., The, Cincinnati, Ohio. Hosiery. No. 147,699; Oct. 25.
- Stixole Manufacturing Co., Cincinnati, Ohio. Adhesive cement. No. 140,224; Mar. 8; v. 284; p. 367.
- Stock, Jno. J., Erdenheim, Pa. Trackless trolley amusement-vehicle. No. 150,133; Dec. 27.
- Stockland Road Machinery Company, Minneapolis, Minn. Road-graders. No. 146,515; Sept. 6; v. 290; p. 216.
- Stockman, L., & Son, Brooklyn, N. Y. Wool, cotton, and silk yarns. No. 145,465; Aug. 2; v. 289; p. 182.
- Stoddard, Gilbert & Co. Inc., New Haven, Conn. Cigars. No. 142,780; May 17; v. 286; p. 634.
- Stoehrer & Pratt Dodge Corporation, Lawrence, Mass. Hand-operated toy cars for indoor or outdoor use. No. 146,007; Aug. 23; v. 289; p. 789.
- Stoll Film Corporation of America, New York, N. Y. Motion-pictures. No. 145,228; July 26; v. 288; p. 817.
- Stoll, Irene H., assignor to F. W. Hammond, Cleveland, Ohio. Fluid dye compound especially adapted for dyeing hair, and more particularly live hair. No. 140,983; Mar. 29; v. 284; p. 949.
- Stoll Oil Refining Co., Louisville, Ky. Gasolene. No. 140,982; Mar. 29; v. 284; p. 949.
- Stoll Oil Refining Co., Louisville, Ky. Petroleum lubricating-oils. No. 146,372; Sept. 6; v. 290; p. 203.
- Stoltz, Melville, St. Louis, Mo. Toy miniature theater. No. 145,466; Aug. 2; v. 289; p. 182.
- Stom-A-Lax Medicine Co., Sanford, Fla. Remedy for stomach disorders. No. 148,542; Nov. 15.
- Stone & Andrew, Inc., Boston, Mass. Ledger, writing, and printing papers. No. 144,480; July 5; v. 288; p. 195.
- Stone, Chas. D., Company, Chicago, Ill. Snap-fasteners for garments. No. 148,932; Nov. 29.
- Stone Fizz Company of America Inc., The, Chattanooga, Tenn. Non-alcoholic, maltless beverages. No. 144,948; July 19; v. 288; p. 623.
- Stone, Junius H., New York, N. Y. Prepared felt for construction purposes. No. 145,229; July 26; v. 288; p. 817.
- Stoneman, William H., Albany, N. Y. Enamel paints; dry paste, and ready-mixed paints. No. 139,404; Feb. 1; v. 283; p. 172.
- Stoneman, William H., Albany, N. Y. Ready-mixed paints. No. 139,405; Feb. 1; v. 283; p. 172.
- Stonewall Medicine Company, St. Louis, Mo. Laxative tablets. No. 142,149; May 3; v. 286; p. 191.
- Stoneward Corp., The, New York, N. Y. Maltless, non-alcoholic beverages. No. 149,513; Dec. 13.
- Stoneward Corporation, The, New York, N. Y. Lye. No. 150,134; Dec. 27.
- Stork, Chas. T., and Co. Inc., New York, N. Y. Condensed milk. No. 149,737; Dec. 20.
- Stormer, Edith, Peoria, Ill. Toilet preparations. No. 140,984; Mar. 29; v. 284; p. 949.
- Stout Crate Co., The, Chicago, Ill. Washing compounds. No. 141,443; Apr. 19; v. 285; p. 569.
- Stowell Manufacturing Co., Jersey City, N. J. Pipe-coverings, roofing materials, and shingles. No. 138,871; Jan. 11; v. 282; p. 378.
- Stransky Mfg. Co. Inc., New York, N. Y. Semi-indirect electric-lighting fixtures. No. 141,689; Apr. 26; v. 285; p. 783.
- Strantz Company, New York, N. Y. General tonic. No. 147,038; Sept. 27; v. 290; p. 806.
- Strassenburgh, R. J., Company, Rochester, N. Y. Tooth-powder. No. 143,182; May 24; v. 286; p. 851.
- Strasburger, Jos., Co., Washington, D. C. Leather shoes. No. 141,444; Apr. 19; v. 285; p. 569.
- Strathmore Paper Company, West Springfield and Mittenague, Mass. Certain described paper and cardboard. No. 142,335; May 10; v. 286; p. 406.
- Strathmore Paper Company, West Springfield, Mass. Unsensitized photographic and blue-print papers. No. 148,933; Nov. 29.
- Straus, Royer & Strass, Inc., Baltimore, Md. Ladies' and children's blouses, dresses, skirts, suits, and bloomers. No. 148,272; Nov. 8.
- Straus, Royer & Strass, Inc., Baltimore, Md. Blouse-suits for ladies' and children's blouses. No. 150,135; Dec. 27.
- Strauss Bros. & Co., New York, N. Y. Hair-nets. No. 143,267; May 24; v. 286; p. 858.
- Strauss Brothers, Baltimore, Md. Sateen piece goods. No. 139,406; Feb. 1; v. 283; p. 172.
- Strauss Brothers, Baltimore, Md. Muslin piece goods. No. 140,019; Mar. 1; v. 284; p. 174.
- Strauss, Edwin M., Chicago, Ill. Candy. Nos. 147,416-18; Oct. 11.
- Strauss, Levi, & Co., San Francisco, Calif. Play-suits, rompers, children's pants, overalls, shirts, and blouses. No. 143,183; May 24; v. 286; p. 851.
- Strawberry Growers Selling Co., New Orleans, La. Fresh and preserved strawberries. Nos. 146,935-6; Sept. 20; v. 290; p. 642.
- Streton, J. W., Company, New York, N. Y. Ribbons—namely, silk and part-silk ribbons. No. 143,751; June 7; v. 287; p. 187.
- Strevell-Paterson Hardware Co., Salt Lake City, Utah. Toy sleds, fishing-tackle and toy coaster-wagons. No. 148,605; Nov. 15.
- Strickler, Dean D., Huntingdon, Pa. Ice-cream. No. 144,671; July 12; v. 288; p. 429.
- Strickler, Jacob M., Kansas City, Mo. Non-alcoholic, non-cereal, maltless soft-drink syrup. No. 138,714; Jan. 4; v. 282; p. 189.
- Stroberger and Lee, Creighton, Nebr. Engine-cylinder dressers. No. 148,273; Nov. 8.
- Strohmeyer & Arpe Company, New York, N. Y. Foods. No. 139,640; Feb. 8; v. 283; p. 354.
- Strohmeyer & Arpe Company, New York, N. Y. Hair-tonic, shampoo, hair-cleanser. No. 144,638; July 12; v. 288; p. 426.
- Stroud, Lillian E. A., Philadelphia, Pa. Shampooing preparation. No. 145,016; July 19; v. 288; p. 629.
- Stroud, Samuel L., Oakland, Calif. Grass rugs. No. 149,738; Dec. 20.
- Strozzi, Michael, Buffalo, N. Y. Antiseptic solution. No. 139,899; Feb. 22; v. 283; p. 755.
- Strub, Oswald B., St. Louis, Mo. Medicinal preparation for headache, neuralgia, &c. No. 148,543; Nov. 15.
- Stuart Products Corporation, Chicago, Ill. Electric batteries. No. 146,888; Sept. 20; v. 290; p. 638.
- Stuart, William H., New York, N. Y. Gage-glasses. No. 142,336; May 10; v. 286; p. 406.
- Stucker, John M., Rosedale, Kans. Self-vulcanizing tire-patches. No. 146,147; Aug. 30; v. 289; p. 1015.



- Studebaker Corporation, The, South Bend, Ind., and Detroit, Mich. Automobiles, motor-trucks, and trailers. No. 141,690; Apr. 26; v. 285; p. 733.
- Studebaker Corporation, South Bend, Ind., and Detroit, Mich. Rubber tires for automobiles. No. 145,525; Aug. 2; v. 289; p. 187.
- Stuebner, Henry, Philadelphia, Pa. Knitting-machine sinkers. No. 146,373; Sept. 6; v. 290; p. 203.
- Stufer, E., & Co., Inc., New York, N. Y. Women's sport suits, coats, and dresses. No. 140,985; Mar. 29; v. 284; p. 949.
- Stunz, H. M., Kansas City, Mo. Thermometers. No. 143,186; May 24; v. 286; p. 851.
- Sturgis Steel Go-Cart Co., Sturgis, Mich. Baby-carriages and go-carts. No. 149,620; Dec. 13.
- Sturm & Scheinberg, New York, N. Y. Garters, armbands, and children's hose-supporters. No. 138,715; Jan. 4; v. 282; p. 189.
- Subin, C., & Co., New York, N. Y. Men's and boys' dress, negligée, and work shirts. No. 141,240; Apr. 12; v. 285; p. 384.
- Succo Company, Incorporated, The, assignor to The Lauden Company, New York, N. Y. Food syrups and pastes used in cooking. No. 142,784; May 17; v. 286; p. 634.
- Sudan Import and Export Company, Cairo, Egypt, and Khartoum, Sudan. Gum-arabic, mother-of-pearl shells, ivory, and dari-seed. No. 147,700; Oct. 25.
- Sudless Products Company, The, Cleveland, Ohio. Water-softener. No. 143,752; June 7; v. 287; p. 187.
- Sugar Belt Live Stock Medicine Co., Thibodaux, La. Tonic for live stock. No. 139,407; Feb. 1; v. 283; p. 172.
- Sugar Products Co., New York, N. Y. Molasses. No. 148,275; Nov. 8.
- Sugola Company of America, New York, N. Y. Crystallized and liquid sweetening-syrup. No. 142,785; May 17; v. 286; p. 634.
- Suhr, Charles A., West Hoboken, N. J. Reconstructive and strengthening tonic. No. 148,276; Nov. 8.
- Sullivan, James E., Camden, N. J. Face-powder. No. 146,008; Aug. 23; v. 289; p. 789.
- Sullivan, James E., Camden, N. J. Tooth-paste. No. 146,009; Aug. 23; v. 289; p. 789.
- Sullivan, R. G., Estate, Manchester, N. H. Cigars, cigarettes, and manufactured tobacco. No. 150,207; Dec. 27.
- Sulzter, L. D., Co., Inc., New York, N. Y. Ladies' hats. No. 143,753; June 7; v. 287; p. 187.
- Sumellor Company, The, Worcester, Mass. Ointment for eczema and other skin diseases. No. 138,716; Jan. 4; v. 282; p. 189.
- Summerfield Company, Boston, Mass. Certain household furniture. No. 149,739; Dec. 20.
- Summers, Charles G., Co., The, Baltimore, Md. Canned vegetables. No. 145,230; July 26; v. 288; p. 817.
- Summitville Clay Products Co., Summitville, Ohio. Bricks and building blocks. No. 143,484; May 31; v. 286; p. 1053.
- Sunwalt, Mad R., Washington, D. C. Toilet water, retiring-oil, hair grower, &c. No. 140,009; Mar. 1; v. 284; p. 174.
- Sun Company, Philadelphia, Pa. Lubricating-oils. No. 149,253; Dec. 6.
- Sun Harbor Packing Corporation, San Diego, Calif. Canned fish. No. 138,717; Jan. 4; v. 282; p. 189.
- Sunderland Brothers Company, Omaha, Nebr. Stucco, composition flooring, and plaster. No. 143,485; May 31; v. 286; p. 1053.
- Sunny Brook Distillery Co., The, Chicago, Ill. Whisky. No. 142,338; May 10; v. 286; p. 406.
- Sunset Color Works, Salt Lake City, Utah. Wall-paper cleaner, carpet-cleaner, paint and enamel wash, &c. No. 140,986; Mar. 29; v. 284; p. 949.
- Sunset Food Products Co., Seattle, Wash. Prepared cake-flour. No. 145,468; Aug. 2; v. 289; p. 182.
- Sunset Paint Company, Los Angeles, Calif. House-paints, velour blanc, oil-colors, and zinc paste. No. 145,823; Aug. 16; v. 289; p. 598.
- Sunshine Neckwear Company, Los Angeles, Calif. Men's neckties and cravats. No. 145,829; Aug. 16; v. 289; p. 598.
- Super Reflex Company, Chicago, Ill. Cameras. No. 142,786; May 17; v. 286; p. 634.
- Super Seal Service, Inc., New York, N. Y. Drugs, chemicals, druggists' supplies, and sundries. No. 138,872; Jan. 11; v. 282; p. 378.
- Superior Boiler Works, Inc., Marion, Ind. Steel dump-bodies for automobile-trucks. No. 140,723; Mar. 22; v. 284; p. 751.
- Superior Flake Graphite Company, Chicago, Ill. Flake-graphite. No. 139,217; Jan. 25; v. 282; p. 736.
- Superior Garment Company, Columbia City, Ind. Children's play-suits. No. 140,987; Mar. 29; v. 284; p. 949.
- Superior Honey Company, Ogden, Utah. Honey. No. 147,886; Nov. 1.
- Superior Laboratories, Grand Rapids, Mich. Oily preparation for cleaning metal surfaces and preventing rust. No. 141,242; Apr. 12; v. 285; p. 384.
- Superior Lamp Mfg. Co., New York, N. Y. Certain electric accessories for automobiles. No. 147,522; Oct. 18.
- Superior Sheet Steel Company, The, Louisville, Ohio. Rolled steel in various forms and finishes. No. 149,740; Dec. 20.
- Superior Underwear Company, The, Piqua, Ohio. Union suits, combination suits, undershirts, and underdrawers. No. 149,804; Dec. 20.
- Supreme Motor Corporation, Warren, Ohio. Internal-combustion engines and their parts. No. 139,641; Feb. 8; v. 283; p. 354.
- Sure-On Tire Saver Co., Chicago, Ill. Trends. No. 144,481; July 5; v. 288; p. 195.
- Surf Manufacturing Co., Milwaukee, Wis. Clothes-washing machines. No. 146,889; Sept. 20; v. 290; p. 638.
- Surpass Hosiery Co., Philadelphia, Pa. Hosiery for men, women, and children. No. 149,254; Dec. 6.
- Susquehanna Silk Mills, New York, N. Y. Silk piece goods. No. 143,187; May 24; v. 286; p. 851.
- Susquehanna Silk Mills, New York, N. Y. Silk piece goods. No. 143,754; June 7; v. 287; p. 187.
- Sussfeld, Lorsch & Co., New York, N. Y. Lorgnette-frames. No. 141,241; Apr. 12; v. 285; p. 384.
- Sussman Wormser & Co., San Francisco, Calif. Certain foods. No. 145,491; Aug. 2; v. 289; p. 182.
- Suter, Robert, Baltimore, Md. Cough-drops. No. 145,661; Aug. 16; v. 289; p. 593.
- Suter, Robert, Baltimore, Md. Cough-drops. No. 147,172; Oct. 4.
- Sutro Bros. Braid Company, The, New York, N. Y. Fancy goods, furnishings, and notions. No. 140,988; Mar. 29; v. 284; p. 949.
- Sutterly, Job R., Jr., Bridgeton, N. J. Automobiles. No. 142,787; May 17; v. 286; p. 634.
- Sutton, Arthur L., Atlanta, Ga. Medicinal preparation for coughs, colds, hoarseness, &c. No. 142,150; May 3; v. 286; p. 191.
- Suvi, Arvi A., New York, N. Y. Fruit confections. No. 141,691; Apr. 26; v. 285; p. 783.
- Sveda, John, Detroit, Mich. External medicine for rheumatism, neuralgia, and general soreness. No. 139,039; Jan. 18; v. 282; p. 556.
- Svenska Aktiebolaget Nobel-Diesel, Nynäshamn, Sweden. Internal-combustion engines, and certain accessories therefor. No. 147,701; Oct. 25.
- Swider, Stanislaw, Jackson, Mich. Stones for treating eye diseases. No. 145,830; Aug. 16; v. 289; p. 598.
- Swafford, Mortimer H., Chicago, Ill. Pharmaceutical preparation for the treatment of tobacco habit. No. 143,188; May 24; v. 286; p. 851.
- Swan & Finch Company, New York, N. Y. Oil used to clean wool and worsteds. No. 140,300; Mar. 8; v. 284; p. 374.
- Swann, E. J., Boston, Mass. Medicinal preparation. No. 144,332; June 28; v. 287; p. 782.
- Swartz, M., & Sons, Philadelphia, Pa. Men's and young men's coats, vests, trousers, and overcoats. No. 149,805; Dec. 20.
- Swartz, Milton D., Baltimore, Md. Paints. No. 141,243; Apr. 12; v. 285; p. 384.
- Swayzee, William B., Winterset, Iowa. Non-alcoholic maltless non-cereal beverage. No. 146,374; Sept. 6; v. 290; p. 203.
- Sweet, Ambrose S., Elmira, N. C. Cooling, soothing, anti-septic preparation for external use. No. 148,277; Nov. 8.
- Sweet Candy Co., Salt Lake City, Utah. Candy. No. 144,148; June 21; v. 287; p. 590.
- Sweet Candy Company, Salt Lake City, Utah. Candies. No. 139,900; Feb. 22; v. 283; p. 755.
- Sweet Candy Company, Salt Lake City, Utah. Candy. No. 142,788; May 17; v. 286; p. 634.
- Sweet Orchard Company, Chicago, Ill. Non-alcoholic beverages and syrups for flavoring same made from fruits. No. 147,702; Oct. 25.
- Sweet Valley Products Co., The, Sandusky, Ohio. Unfermented, maltless, &c., beverage. No. 141,244; Apr. 12; v. 285; p. 384.
- Sweetwater Beverage Company, Green River, Wyo. Non-intoxicating, malt, cereal beverage. No. 140,301; Mar. 8; v. 284; p. 374.
- Swerdlow, Harry, Brooklyn, N. Y. Perforated music-rolls for automatic piano-players. No. 139,642; Feb. 8; v. 283; p. 354.
- Swett, Dr., Root Beer, Inc., Boston, Mass. Root-beer. No. 150,136; Dec. 27.
- Swift and Company, Chicago, Ill. Soap. No. 138,718; Jan. 4; v. 282; p. 189.
- Swift and Company, Chicago, Ill. Duck feed. No. 139,218; v. 282; p. 736.
- Swift & Company, Chicago, Ill. Lard, ham, bacon, and oleomargarin. No. 140,225; Mar. 8; v. 284; p. 367.
- Swift and Company, Chicago, Ill. Oleomargarin. No. 146,890; Sept. 20; v. 290; p. 638.
- Swift and Company, Chicago, Ill. Toilet soaps. No. 148,278; Nov. 8.
- Swift & Company, Chicago, Ill. Soap. No. 148,934; Nov. 29.
- Swift and Company, Chicago, Ill. Washing-powder, laundry soap, and soap chips. No. 149,514; Dec. 13.
- Swift, Dean, Washington, D. C. Medicine used in the treatment of torpid liver, constipation, kidney and bladder troubles, anemia, &c. No. 145,831; Aug. 16; v. 289; p. 598.
- Swihart, Cyrus E., Harpeter, Ohio. Pliers. No. 149,255; Dec. 6.
- Swinborne, Latimer P., London, England. Isinglass, gelatin, and gelatinous substances. Nos. 141,158-9; Apr. 12; v. 285; p. 382.



- Swine Breeder's Service, Chicago, Ill. Apparatus for vaporizing a disinfectant liquid. No. 139,408; Feb. 1; v. 283; p. 172.
- Swisher, B. F., Cheyenne, Wyo. Laxative preparation. No. 141,245; Apr. 12; v. 285; p. 384.
- Symms-Brownell Mfg. Co., Sioux Falls, S. D. Spark-plugs. No. 145,469; Aug. 2; v. 289; p. 182.
- Symonds, Frank P., Salem, Mass. Floor-oil and furniture-polish. No. 140,989; Mar. 29; v. 284; p. 949.
- Syracuse Candy Works, Inc., Syracuse, N. Y. Candy. No. 141,246; Apr. 12; v. 285; p. 384.
- Syracuse Cap Mfg. Co., Inc., Syracuse, N. Y. Hats and caps for men and boys. No. 140,990; Mar. 29; v. 284; p. 949.
- Syracuse Rubber Co., Inc., Syracuse, N. Y. Casings or shoes and inner tubes. No. 140,444; Mar. 15; v. 284; p. 583.
- Syracuse Smelting Works, Brooklyn, N. Y. Babbitt metal. No. 139,643; Feb. 8; v. 283; p. 354.
- Szabo, Alex., New York, N. Y. Liniment. No. 150,137; Dec. 27.
- T. B. Chemical Company, Newark, N. J. Antitoxin for white corpuscles of the blood. No. 146,070; Aug. 30; v. 289; p. 1013.
- T. & H. Specialty Mfg. Co. Inc., Charleston, W. Va. Talking-machines and certain attachments and supplies therefor. No. 147,817; Nov. 1.
- Tacoma Grain Company, Tacoma, Wash. Wheat-flour. No. 138,719; Jan. 4; v. 282; p. 189.
- Taffae & Bellion, New York, N. Y. Raw coffee. Nos. 149,741-2; Dec. 20.
- Taft, Fred M., Logansport, Ind. Liquid polish for autos, pianos, and furniture. No. 138,873; Jan. 11; v. 282; p. 378.
- Tah Chang Sen & Co., Shanghai, China. Dyes in the form of indigo paste. Nos. 145,832-3; Aug. 16; v. 289; p. 598.
- Tah Chang Sen & Co., Shanghai, China. Dyes. Nos. 145,834-7; Aug. 16; v. 289; p. 598.
- Tah Chang Sen & Co., Shanghai, China. Dyes. No. 146,375; Sept. 6; v. 290; p. 203.
- Tailored Silk Undergarment Co., New York, N. Y. Underwear—namely, chemises, bloomers, camisoles, &c. No. 149,256; Dec. 6.
- Talbert-Whitmore Company, Los Angeles, Calif. Shade-cloth. No. 141,692; Apr. 26; v. 285; p. 783.
- Talbot Packing & Preserving Co., Easton, Md. Canned fruits and vegetables. No. 143,755; June 7; v. 287; p. 187.
- Talcum Puff Co., New York, N. Y. Toilet preparations. No. 138,874; Jan. 11; v. 282; p. 378.
- Talcum Puff Co., Brooklyn, N. Y. Toilet preparations. No. 138,875; Jan. 11; v. 282; p. 378.
- Talcum Puff Company, Brooklyn, N. Y. Talcum and face powders and toilet water. No. 140,991; Mar. 29; v. 284; p. 949.
- Talcum Puff Company, Brooklyn, N. Y. Talcum powder. No. 143,190; May 24; v. 286; p. 851.
- Talcum Puff Co., Brooklyn, N. Y. Toilet preparations. No. 143,191; Mar. 24; v. 286; p. 852.
- Talking Book Corporation, New York, N. Y. Phonograph-records and books therefor. No. 142,151; May 3; v. 286; p. 191.
- Talking Photo Corporation, New York, N. Y. Phonograph record-disks. No. 141,693; Apr. 26; v. 285; p. 783.
- Tamaqua Underwear Company, Tamaqua, Pa. Women's knitted underwear, &c. No. 139,409; Feb. 1; v. 283; p. 172.
- Tanenbaum, Jacob, New York, N. Y. Toilet preparations—viz., rouge and face-powder. No. 138,876; Jan. 11; v. 282; p. 378.
- Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. No. 139,644; Feb. 8; v. 283; p. 354.
- Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. Nos. 144,672-3; July 12; v. 288; p. 429.
- Tansch Company, Chicago, Ill. Antiseptic for use after shaving. No. 148,744; Nov. 22.
- Tanski, Maryan, Syracuse, N. Y. Foot-powder. No. 148,279; Nov. 8.
- Tanty, Inc., New York, N. Y. Toilet preparations. No. 144,284; June 28; v. 287; p. 777.
- Tappen, Howard A., Woodbridge, N. J. Cotton piece goods. No. 146,891; Sept. 20; v. 290; p. 638.
- Tarantella Company, New York, N. Y. Mechanical blade-stroppers. No. 146,376; Sept. 6; v. 290; p. 203.
- Tardone, Robert, & Son, New York, N. Y. Liquid hair-tonic. No. 143,193; May 24; v. 286; p. 852.
- Tate Manufacturing Company, Boston, Mass. Mops, oil-mops, and cotton floor-brushes. No. 143,192; May 24; v. 286; p. 852.
- Tate Manufacturing Company, Boston, Mass. Dust-cloths. No. 144,285; June 28; v. 287; p. 777.
- Tatham and Company, Chicago, Ill. Butter, eggs, and poultry. No. 149,257; Dec. 6.
- Taunton Pearl Works, Inc., Taunton, Mass. Tie-clasps, collar holders and buttons, and pins. No. 147,703; Oct. 25.
- Taunton Rubber Co. Inc., Taunton, Mass. Rubber heels. No. 141,812; Apr. 26; v. 285; p. 793.
- Tausend, Felix, New York, N. Y. Annual and periodical price-lists and catalogues. No. 144,539; July 5; v. 288; p. 200.
- Taylor, Artie N., Mrs., St. Joseph, Mo. Ointment for use in treating the scalp. No. 148,946; Nov. 29.
- Taylor, C. A., Trunk Works, Inc., Chicago, Ill. Trunks. No. 143,194; May 24; v. 286; p. 852.
- Taylor, Clapp & Beall, New York, N. Y. Cotton piece goods. No. 139,901; Feb. 22; v. 283; p. 755.
- Taylor, Clapp & Beall, New York, N. Y. Cotton piece goods. Nos. 140,063-4; Mar. 1; v. 284; p. 179.
- Taylor, Clapp & Beall, New York, N. Y. Cotton piece goods. No. 148,341; Nov. 8.
- Taylor, Clapp & Beall, New York, N. Y. Cotton sheeting in the piece. No. 148,544; Nov. 15.
- Taylor Drug Co., Birmingham, Ala. Laxative remedy for colds and malaria. No. 139,699; Feb. 8; v. 283; p. 358.
- Taylor, F. H., Company, Philadelphia, Pa. Laundry-washing machines, ironing-boards, &c. No. 142,789; May 17; v. 286; p. 634.
- Taylor Instrument Companies, Rochester, N. Y. Thermometers, barometers, compasses, &c. No. 141,813; Apr. 26; v. 285; p. 793.
- Taylor, J. L., Company, The, Los Angeles, Calif. Fresh citrus fruits. No. 144,949; July 19; v. 288; p. 623.
- Taylor, John H., Philadelphia, Pa. Thumb-tacks. No. 144,639; July 12; v. 288; p. 426.
- Taylor, Milton M., Tampa, Fla. Medicinal preparation for certain uses. No. 140,992; Mar. 29; v. 284; p. 949.
- Taylor, Syd S., Brooklyn, N. Y. Pulling-candy. No. 144,482; July 5; v. 288; p. 195.
- Taylor Tamale Company, Los Angeles, Calif. Chilli sauce, chilli-con-carne with frijoles, boneless Spanish chicken tamales, &c. No. 149,743; Dec. 20.
- Taylor, William B., Plympton, Mass. Fresh eggs. No. 143,487; May 31; v. 286; p. 1053.
- Taylor's, Santa Ana, Calif. Citrous fruit confection. No. 143,756; June 7; v. 287; p. 188.
- Teckemeyer Candy Co., Madison, Wis. Candy. No. 140,226; Mar. 8; v. 284; p. 368.
- Tecktonius, E. C., Manufacturing Company, Racine, Wis. Silos. No. 141,814; Apr. 26; v. 285; p. 794.
- Tedford, R. A., & Company, Wenatchee, Wash. Fresh apples. No. 143,757; June 7; v. 287; p. 188.
- Tee Pee Rubber Company, New York, N. Y. Rubber heels and rubber lifts. No. 141,445; Apr. 19; v. 285; p. 569.
- Teed, Robert M., Pittsburgh, Pa. Moving-picture films. No. 141,247; Apr. 12; v. 285; p. 384.
- Teitelbaum, David, New York, N. Y. Hair-nets. No. 148,280; Nov. 8.
- Tempest Waterproofing Corporation, New York, N. Y. Certain textile fabrics. No. 146,051; Aug. 23; v. 289; p. 794.
- Templeton Manufacturing Co., Hyde Park, Mass. Steam-traps. No. 147,251; Oct. 4.
- Templin, Hubert E., Johnson City, Tenn. General tonic. No. 139,902; Feb. 22; v. 283; p. 755.
- Temtor Corn & Fruit Products Co., St. Louis, Mo., and South Fort Smith, Ark. Stock feed. No. 145,526; Aug. 2; v. 289; p. 187.
- Temtor Corn & Fruit Products Co., St. Louis, Mo. Apple-butter, fruit preserves, jam, &c. No. 147,173; Oct. 4.
- Temtor Corn & Fruit Products Co., St. Louis, Mo. Fruit preserves and jams. No. 147,174; Oct. 4.
- Temtor Corn & Fruit Products Co., St. Louis, Mo. Mince-pie filling, jam, fruit jelly, &c. No. 148,281; Nov. 8.
- Temtor Corn & Fruit Products Co., St. Louis, Mo., and South Fort Smith, Ark. Stock feed or sweet feed. No. 149,516; Dec. 13.
- Temtor Corn & Fruit Products Co., St. Louis, Mo. Stock feed. No. 149,517; Dec. 13.
- Temtor Corn & Fruit Products Co., St. Louis, Mo., and South Fort Smith, Ark. Dairy feed. No. 149,518; Dec. 13.
- Temtor Corn & Fruit Products Co., St. Louis, Mo., and South Fort Smith, Ark. Fattening feed for stock. No. 149,519; Dec. 13.
- Temtor Corn & Fruit Products Co., St. Louis, Mo., and South Fort Smith, Ark. Horse and mule feed. No. 149,520; Dec. 13.
- Terhorst, Louise O., Milwaukee, Wis. Pharmaceutical preparation. No. 141,248; Apr. 12; v. 285; p. 384.
- Terrast Industrie G. m. b. H., Berlin-Halensee, Germany. Construction materials. No. 141,694; Apr. 26; v. 285; p. 783.
- Terrell Machine Company, The, Charlotte, N. C. Bobbin-cleaning machines. No. 147,704; Oct. 25.
- Terry, Herbert, & Sons, Ltd., Redditch, England. Metal goods. No. 138,877; Jan. 11; v. 282; p. 378.
- Terry, Herbert, & Sons Ltd., Redditch, England. Springs and tools, reamers, shafting, &c. No. 141,249; Apr. 12; v. 285; p. 384.
- Terry, Herbert, & Sons, Ltd., Redditch, England. Accessories for motor cars and cycles. No. 142,152; May 3; v. 286; p. 191.
- Terry, Herbert, & Sons, Limited, Redditch, England. Hardware. No. 144,066; June 21; v. 287; p. 582.
- Tersin Products Company, Red Bank, N. J. Antiseptic, deodorant, disinfectant, and germicide ointment. No. 140,445; Mar. 15; v. 284; p. 583.
- Tersin Products Company, Red Bank, N. J. Chemical rust-remover. Nos. 140,446-7; Mar. 15; v. 284; p. 583.



*Alphabetical list of registrants of trade-marks—Continued.*

- Teter, Leo, Chicago, Ill. Boots and shoes. No. 144,067; June 21; v. 287; p. 583.
- Texas Company, The, Houston, Tex., and New York, N. Y. Felt roofing and roofing-cements. No. 138,720; Jan. 4; v. 282; p. 190.
- Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Construction materials. No. 140,227; Mar. 8; v. 284; p. 368.
- Texas Company, The, Houston, Tex., and New York, N. Y. Kerosene-oil. No. 141,250; Apr. 12; v. 285; p. 384.
- Texas Company, The, Houston, Tex., and New York, N. Y. Composition felt roofing. No. 142,153; May 3; v. 286; p. 191.
- Texas Company, The, Houston, Tex., and New York, N. Y. Kerosene-oil. No. 144,950; July 19; v. 288; p. 623.
- Texas Company, The, Houston, Tex., and New York, N. Y. Petroleum products. No. 148,947; Nov. 29.
- Texas Company, The, Houston, Tex., and New York, N. Y. Polishing-oil for painted and varnished surfaces. No. 149,521; Dec. 13.
- Texas Company, Houston, Tex., and New York, N. Y. Turpentine substitute. No. 150,138; Dec. 27.
- Texas Oil, Gas & Mineral Products Company, Houston, Tex. Powder for cleansing, scouring, and polishing metals, glass, &c. No. 141,446; Apr. 19; v. 285; p. 569.
- Texas Star Flour Mills, Galveston, Tex. Wheat-flour. Nos. 147,175-6; Oct. 4.
- Texas Star Flour Mills, Galveston, Tex. Wheat-flour. No. 148,717; Nov. 22.
- Texas Wagon Works, Inc., The, Houston, Tex. Trailers. No. 145,470; Aug. 2; v. 289; p. 182.
- Texoleum Company of New York, New York, N. Y. Oil-cloth, linoleum, mats, and rugs in the nature of linoleum and oil-cloth. No. 147,887; Nov. 1.
- Textile, Leather & Metal Preserver Co., Kalamazoo, Wis. Dressing for auto-tops, canvas, pantasote, mohair, leather, &c. No. 149,522; Dec. 13.
- Textile Manufacturers Alliance, Inc., The, New York, N. Y. Bedspreads, blankets, textile piece goods, &c. No. 144,068; June 21; v. 287; p. 583.
- Textile Products Manufacturing Company, St. Louis, Mo. Overalls, jumpers, and work-shirts. Nos. 142,790-1; May 17; v. 286; p. 634.
- Textile Products Manufacturing Company, St. Louis, Mo. Overalls, work shirts and pants, coats. No. 143,835; June 7; v. 287; p. 194.
- Textile Publishing Company, New York, N. Y. Periodical issued every two weeks. No. 140,228; Mar. 8; v. 284; p. 368.
- Textile Service Co., Inc., New York, N. Y. Waterproof cotton piece goods. No. 143,488; May 31; v. 286; p. 1053.
- Textile Service Co., Inc., New York, N. Y. Cotton piece goods. No. 144,069; June 21; v. 287; p. 583.
- Thal, John M., Washington, D. C. Dentifrices. No. 138,873; Jan. 11; v. 282; p. 378.
- Thall, David, Manchester, N. H. Corn-salve. No. 147,039; Sept. 27; v. 290; p. 506.
- Thane, A. F., & Co., San Francisco, Calif. Lumber. No. 142,154; May 3; v. 286; p. 191.
- Thane, A. F., & Co., San Francisco, Calif. Dyes. No. 143,489; May 31; v. 286; p. 1053.
- Thatcher, Charles S., Steubenville, Ohio. Ointment. No. 140,020; Mar. 1; v. 284; p. 174.
- Thau, Charles K., New York, N. Y. Hair-nets. Nos. 147,177-8; Oct. 4.
- Thayer, Edwin M., Boston, Mass. Aniline dyes. No. 145,838; Aug. 16; v. 289; p. 598.
- Thayer, Henry, & Co., Inc., Cambridge, Mass. Pharmaceutical preparations. No. 138,723; Jan. 4; v. 282; p. 190.
- Thayer, Henry, & Co., Inc., Cambridge, Mass. Salves and ointments. No. 139,040; Jan. 18; v. 282; p. 556.
- Thayer, Henry, & Co., Inc., Cambridge, Mass. Remedial, toilet, and shaving soaps and shaving-cream. No. 141,447; Apr. 19; v. 285; p. 569.
- Thayer, Henry, & Co., Inc., Cambridge, Mass. Pharmaceutical preparations. No. 148,948; Nov. 29.
- Thayer, Rena W., Adams, Mass. Hair-locking attachments for barrettes. No. 142,901; May 17; v. 286; p. 642.
- The Best Mills Co., New York, N. Y. Articles of clothing. No. 144,516; July 5; v. 288; p. 198.
- "The Young Men's Shop," Washington, D. C. Articles of clothing. No. 142,398; May 10; v. 286; p. 411.
- Theard, Thomas A., Indianapolis, Ind. Cleaning compound for rugs and carpets. No. 142,792; May 17; v. 286; p. 634.
- Theopold-Reid Co., Faribault, Minn. Wheat-flour. No. 143,195; May 24; v. 286; p. 852.
- Thermo-Pan Electric Co., Inc., New York, N. Y. Electrically-operated fans. No. 140,448; Mar. 15; v. 284; p. 583.
- Theruer-Norton Provision Co., The, Cleveland, Ohio. Bacon, hams, lard, &c. No. 140,994; Mar. 29; v. 284; p. 949.
- Thisle Cotton Mills Inc., Ilchester, Md. Woven fabrics for vehicle-tires, in the piece. No. 140,449; Mar. 15; v. 284; p. 583.
- Thlinket Packing Corporation, Portland, Oreg. Canned fish. Nos. 141,058-62; Apr. 5; v. 285; p. 187.
- Thlinket Packing Corporation, Portland, Oreg. Canned fish. No. 141,095; Apr. 26; v. 285; p. 783.
- Thlinket Packing Company, Portland, Oreg., and Funtler Bay, Alaska. Canned salmon. No. 143,196; May 24; v. 286; p. 852.
- Thom, Charles H., Los Angeles, Calif. Bottled ginger-ale. No. 150,139; Dec. 27.
- Thoma, James G. D., Cooperstown and New York, N. Y. Cigars. No. 142,793; May 17; v. 286; p. 634.
- Thomas, Arthur H., Company, Philadelphia, Pa. Potassium sulfate. No. 139,903; Feb. 22; v. 283; p. 755.
- Thomas-Body Company, San Francisco, Calif. Canned fruits and vegetables. No. 144,951; July 19; v. 288; p. 623.
- Thomas-Body Company, San Francisco, Calif. Canned fruits and vegetables. No. 145,232; July 26; v. 288; p. 817.
- Thomas-Body Company, San Francisco, Calif. Canned fruits and vegetables. No. 146,377; Sept. 6; v. 290; p. 203.
- Thomas-Body Company, San Francisco, Calif. Canned fruits and vegetables. No. 148,282; Nov. 8.
- Thomas Gill Soap Company, Inc., Brooklyn, N. Y. Foot-soaps. No. 146,466; Sept. 6; v. 290; p. 211.
- Thomas, J. Davis, Round Hill, Va. Preparation for the elimination of worms in cattle. No. 146,378; Sept. 6; v. 290; p. 203.
- Thomas, Nicholas L., O'Fallon, Ill. Preparation for the treatment of skin. No. 143,873; June 14; v. 287; p. 402.
- Thomas Spark Plug Co., New York, N. Y. Spark-plugs. No. 139,099; Jan. 18; v. 282; p. 561.
- Thompson and Capper, Limited, Liverpool, England. General tonic. No. 145,839; Aug. 16; v. 289; p. 598.
- Thompson, Chas. M., Muncie, Ind. Bread. No. 138,721; Jan. 4; v. 282; p. 190.
- Thompson-Denton Co., The, Seattle, Wash. Piano and furniture polish. No. 147,523; Oct. 18.
- Thompson, Henry G., & Son Company, The, New Haven, Conn. Hack-saw-blades. No. 150,140; Dec. 27.
- Thompson-Neaylon Manufacturing Co., Chicago, Ill. Automobile-rim clamps, wedges and bolts for same. No. 138,722; Jan. 4; v. 282; p. 190.
- Thompson, Tilford, Seattle, Wash. Wind-deflectors. No. 140,452; Mar. 15; v. 284; p. 583.
- Thomson Auto Specialties Company, The, Columbus, Ohio. Lubricating-oil. No. 140,995; Mar. 29; v. 284; p. 949.
- Thomson & Diggs Company, The, Sacramento, Calif. Certain pencils and crayons. No. 149,258; Dec. 6.
- Thomson Machine Company, Belleville, N. J. Bakery machinery. No. 138,924; Jan. 11; v. 282; p. 382.
- Thoreson, Peter, Baldi, Wash. Shoe-dressing. No. 143,490; May 31; v. 286; p. 1053.
- Thornhill Wagon Co., Lynchburg, Va. Farm and freight wagons. No. 142,155; May 3; v. 286; p. 191.
- Thoro Products Mfg. Co., The, Denver, Colo. Bluing and ammonia. No. 150,141; Dec. 27.
- Thoroughbred Record Company, Inc., The, Lexington, Ky. Weekly periodical. No. 144,070; June 21; v. 287; p. 583.
- Threshermen's Review Company, The, St. Joseph, Mich. Publication at present issued quarterly. No. 144,952; July 19; v. 288; p. 623.
- Thrift Stores, Inc., Springfield, Mass. Salted nuts, nuts in their natural state, and candy. No. 146,010; Aug. 23; v. 289; p. 789.
- Thurm, Browne & Cohen, Inc., New York, N. Y. Veilings, nettings, and chiffons in the piece. No. 140,229; Mar. 8; v. 284; p. 368.
- Thurston Mfg. Co., Providence, R. I. Machines and saws, milling-cutters, &c. No. 139,645; Feb. 8; v. 283; p. 354.
- Tichenor, E. L., Co. Inc., Middletown, N. Y. Writing-tablets. No. 143,491; May 31; v. 286; p. 1053.
- Tichenor, Walter K., New York, N. Y. Tooth-paste. No. 141,251; Apr. 12; v. 285; p. 384.
- Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Derivatives of crude petroleum. Nos. 141,696-702; Apr. 26; v. 285; pp. 783-4.
- Tide Water Oil Company, Bayonne, N. J., and New York, N. Y. Gasoline, kerosene, naphtha, lubricating-oils, &c. No. 143,758; June 7; v. 287; p. 188.
- Tiffany & Company, New York, N. Y. Stands, mirrors, tea tables and wagons, &c. No. 139,220; Jan. 25; v. 282; p. 736.
- Tiffany & Company, New York, N. Y. Articles of or plated with precious metal. No. 139,646; Feb. 8; v. 283; p. 354.
- Tiffany & Company, New York, N. Y. Mirrors, stands, tea tables and wagons, &c. No. 140,302; Mar. 8; v. 284; p. 374.
- Tiffany & Company, New York, N. Y. Printed and engraved cards of all kinds, book-plate labels, and calendars. No. 140,996; Mar. 29; v. 284; p. 949.
- Tiffin Products, Inc., Long Island City, N. Y. Ginger-ale, lemon-soda, cream-soda, &c. No. 148,949; Nov. 29.
- Tiger Products Company, St. Paul, Minn. Malt extract. No. 139,410; Feb. 1; v. 283; p. 172.
- Tigers Claw Manufacturing Company, Detroit, Mich. Rubber patches for automobile-tires. No. 140,450; Mar. 15; v. 284; p. 583.



- Tillamook County Creamery Association, Tillamook, Oreg. Cheese. No. 143,836; June 7; v. 287; p. 194.
- Tillotson, W. E., Manufacturing Company, Pittsfield, Mass. Worsteds in the piece. No. 138,879; Jan. 11; v. 282; p. 378.
- Tillotson, W. E., Manufacturing Company, Pittsfield, Mass. Cloth of all wool and all cotton and a mixture of wool and cotton in the piece. No. 138,880; Jan. 11; v. 282; p. 378.
- Tillotson, W. E., Manufacturing Company, Pittsfield, Mass. Knitted underwear for adults and children, consisting of two-piece garments. No. 140,686; Mar. 22; v. 284; p. 747.
- Tilson, James H., Baxter Springs, Kans. Liniment for rheumatism and catarrh. No. 141,449; Apr. 19; v. 285; p. 569.
- Timken-Detroit Axle Company, The, Detroit, Mich. Axles for motor-vehicles. No. 146,052; Aug. 23; v. 289; p. 794.
- Timken-Detroit Axle Company, The, Detroit, Mich. Gears for transmitting power for automotive and other purposes. No. 147,705; Oct. 25.
- Timken Roller Bearing Company, Canton, Ohio. Roller-bearings and parts thereof. No. 144,149; June 21; v. 287; p. 590.
- Tin Decorating Co. of Baltimore, Baltimore, Md. Metallic boxes and cans. No. 139,647; Feb. 8; v. 283; p. 354.
- Tinctorial Company, The, Denver, Colo. Dye for changing the color of leather to a deep black. No. 146,148; Aug. 30; v. 289; p. 1015.
- Tinsley, James N., St. Joseph, Mo. School-tablets. No. 145,234; July 26; v. 288; p. 817.
- Tip Top Bluing Works, Detroit, Mich. Laundry bluing. No. 148,545; Nov. 15.
- Tipper, Harry, New York, N. Y., assignor to Oxford Correspondence College, Ltd., Oxford, England. Pamphlets, booklets, lectures issued from time to time in connection with a home law course. No. 140,451; Mar. 15; v. 284; p. 583.
- Tiptoes Corporation, The, New York, N. Y. Metal plates for shoe-tips to protect them from wear. Nos. 145,235-6; July 26; v. 288; p. 817.
- Tirel, J., Paris, France. Chemical products for removing rust-stains. No. 139,411; Feb. 1; v. 283; p. 172.
- Tirometer Valve Corporation of America, Charleston, W. Va. Tire and tube valves and gage combined. No. 139,648; Feb. 8; v. 283; p. 354.
- Tisco Company, The, Chicago, Ill. Concentrated vanilla flavoring for foods. No. 138,724; Jan. 4; v. 282; p. 190.
- Tisco Company, The, Chicago, Ill. Flavoring materials for foods. No. 140,453; Mar. 15; v. 284; p. 583.
- Tisco Company, The, Chicago, Ill. Non-alcoholic beverage. No. 147,065; Sept. 27; v. 290; p. 809.
- Titan Co. A/S, Christiania, Norway. Paint-pigments and paints. No. 141,252; Apr. 12; v. 285; p. 385.
- Titan Co. A/S, Christiania, Norway. Paint-pigments and paints containing titanium as a compound thereof. No. 144,954; July 19; v. 288; p. 623.
- Titeflex Metal Hose Corporation, Newark, N. J. Pipe-couplings. No. 146,379; Sept. 6; v. 290; p. 203.
- Ti-Test Company, Inc., New York, N. Y. Piston-rings; No. 140,230; Mar. 8; v. 284; p. 368.
- Titmus Optical Co. Inc., Petersburg, Va. Optical lenses. No. 148,546; Nov. 15.
- Titusville Forge Company, Titusville, Pa. Hydraulically pressed and hammered steel forgings. No. 145,237; July 26; v. 288; p. 817.
- Tobias & Co., New York, N. Y. Chemical cloth for cleaning, polishing, and preventing steaming on optical lenses and instruments. No. 140,021; Mar. 1; v. 284; p. 174.
- Toch Brothers, New York, N. Y. Paint-pigments and ready-mixed paints. No. 138,881; Jan. 11; v. 282; p. 378.
- Toch Brothers, New York, N. Y. Material for chemically hardening and dust-proofing cement or concrete floors. No. 142,156; May 3; v. 286; p. 191.
- Toch Brothers, New York, N. Y. Liquid material to be mixed with cement to hasten final set of construction-work. No. 143,197; May 24; v. 286; p. 852.
- Tockstein, Julia, Chicago, Ill. Medicinal preparation for use in the treatment of St. Vitus's dance. No. 143,492; May 31; v. 286; p. 1053.
- Toland, William, Greenville, S. C. Medicine for smallpox. No. 141,815; Apr. 26; v. 285; p. 794.
- Toledo Scale Company, Toledo, Ohio. Weighing-scales and instruments of precision. No. 141,301; Apr. 12; v. 285; p. 389.
- Tolerton & Warfield Co., Sioux City, Iowa. Foods. No. 142,339; May 10; v. 286; p. 406.
- Tolman, John A., & Company, Chicago, Ill. Coffee. No. 144,483; July 5; v. 288; p. 195.
- Tolman Print Inc., Brockton, Mass. Paper and blank forms. No. 142,157; May 3; v. 286; p. 191.
- Tolman Print, Inc., Brockton, Mass. Advertising literature. No. 142,902; May 17; v. 286; p. 642.
- Tolman Print Inc., Brockton, Mass. Certain advertising literature. No. 146,516; Sept. 6; v. 290; p. 217.
- Tolman Print Inc., Brockton, Mass. Named advertising novelties, such as post-cards, &c. No. 147,419; Oct. 11.
- Tom Wye, Inc., Winchendon, Mass. Certain articles of clothing. No. 139,439; Feb. 1; v. 283; p. 173.
- Tomatina Alimentary Paste Co., New York, N. Y. Food products. No. 139,412; Feb. 1; v. 283; p. 172.
- Tomhagen, Celestia E., Chicago, Ill. Uterine tonic. No. 140,231; Mar. 8; v. 284; p. 368.
- Tonk Manufacturing Co., Chicago, Ill. Piano-benches. No. 150,142; Dec. 27.
- Tonkin, William J., Ridgewood, N. J. Games comprising pieces and a game-board. No. 142,842; May 17; v. 286; p. 636.
- Tool & Auto Products Company, The, Cleveland, Ohio. Tools and machinery for working metal. No. 143,198; May 24; v. 286; p. 852.
- Toombs, F. A., & Co., Brooklyn, N. Y. Photograph-albums. No. 145,017; July 19; v. 288; p. 629.
- Topkis Bros. Co., Wilmington, Del. Underwear. No. 142,795; May 17; v. 286; p. 634.
- Torbell Company, The, Boston, Mass. Monthly magazines. No. 149,259; Dec. 6.
- Torchweld Equipment Company, Chicago, Ill. Blowpipes. No. 146,892; Sept. 20; v. 290; p. 638.
- Torii, Shinjiro, Osaka, Japan. Whiskies, brandies, and gins. No. 139,413; Feb. 1; v. 283; p. 172.
- Torii Shinjiro, Osaka, Japan. Red and white wines and sweetened wines. No. 141,703; Apr. 26; v. 285; p. 784.
- Toro Manufacturing Company, Minneapolis, Minn. Cultivators. No. 143,199; May 24; v. 286; p. 852.
- Toro Manufacturing Company, Minneapolis, Minn. Tractors, traction-engines, &c. No. 144,640; July 12; v. 288; p. 426.
- Torsch Packing Co., Baltimore, Md. Crushed oyster-shells. No. 147,888; Nov. 1.
- Toulson & Renesch, Bridgeport, Conn. Yarns. No. 147,821; Nov. 1.
- Touraine Co., The, Boston, Mass. Chocolate and candy. No. 139,041; Jan. 18; v. 282; p. 556.
- Touraine Company, The, Boston, Mass. Chocolates. No. 149,260; Dec. 6.
- Tousey, Sinclair, New York, N. Y. Golf-clubs. No. 150,143; Dec. 27.
- Tower, A. J., Company, Boston and Roxbury, Mass. Oiled hats. No. 140,303; Mar. 8; v. 284; p. 374.
- Tower, A. J., Company, Boston, Mass. Waterproof coats. No. 147,420; Oct. 11.
- Towers, Williamson & Tollett, Guthrie, Okla. Preparation for the treatment of dandruff and eczema. No. 148,745; Nov. 22.
- Towle & Surridge, Lynn, Mass. Infants' and children's boots and shoes made wholly or in part of leather and cloth. No. 149,267; Dec. 6.
- Towmotor Company, The, Cleveland, Ohio. Gasolene industrial tractors. No. 149,268; Dec. 6.
- Townley, Edmond A., New York, N. Y. Books, magazines, pamphlets, &c. No. 144,071; June 21; v. 287; p. 583.
- Townsend, E. M., & Co., New York, N. Y. Hosiery and knitted underwear. No. 142,796; May 17; v. 286; p. 635.
- Townsend, Ernest J., East Lynn, Mass. Medicinal and toilet preparation. No. 144,286; June 28; v. 287; p. 777.
- Townsend Grace Company, The, Baltimore, Md. Men's straw hats. No. 141,253; Apr. 12; v. 285; p. 385.
- Toy Tinkers, The, Evanston, Ill. Games and toys. No. 144,484; July 5; v. 288; p. 195.
- Toytown Manufacturing Company, Minneapolis, Minn. Toy wooden horses mounted on wheels. No. 149,525; Dec. 13.
- Tractor Appliance Company, The, New Holstein, Wis. Governors, &c., for internal-combustion engines. No. 146,612; Sept. 13; v. 290; p. 423.
- Traffic Publishing Company, The, New York, N. Y. Publications. No. 145,238; July 26; v. 288; p. 817.
- Trainer, Joseph C., Philadelphia, Pa. Medicinal tonic for building up run-down systems, relieving constipation, and aiding digestion. No. 144,072; June 21; v. 287; p. 583.
- Traitel Marble Co., The, New York, N. Y. Construction materials for floors, walls, and ceilings. No. 143,493; May 31; v. 286; p. 1053.
- Traitel Marble Co., The, Long Island City, N. Y. Certain named metal strips. No. 143,837; June 7; v. 287; p. 194.
- Transport Truck Company, Mount Pleasant, Mich. Gasolene-motor trucks. No. 141,302; Apr. 12; v. 285; p. 389.
- Transportation Engineering Corporation, New York, N. Y. Arc-welding metal electrodes. No. 149,261; Dec. 6.
- Trask, John C., Salem, Mass. Salve for cuts, burns, sores, &c. No. 147,822; Nov. 1.
- Trasso, Anthony J., New York, N. Y. Medicinal preparation for the hair and scalp. No. 146,149; Aug. 30; v. 289; p. 1015.
- Traub Manufacturing Company, Detroit, Mich. Finger-ring. No. 146,380; Sept. 6; v. 290; p. 204.
- Traylor Engineering & Manufacturing Co., Allentown, Pa.; New York, N. Y.; Chicago, Ill.; Los Angeles, Calif.; and Spokane, Wash. Stone-crushers, &c. No. 144,641; July 12; v. 288; p. 426.
- Trego Doll Mfg. Co., Inc., New York, N. Y. Dolls. No. 146,150; Aug. 30; v. 289; p. 1016.



*Alphabetical list of registrants of trade-marks—Continued.*

- Tremonte Co., The, Philadelphia, Pa. Face-powder. No. 149,262; Dec. 6.
- Trenton Electric Conduit Co., Trenton, N. J. Fuse-plugs, electric switches, cut-outs, &c. No. 144,953; July 19; v. 288; p. 623.
- Trenton Milling Company, Trenton, Ill. Wheat-flour. No. 139,649; Feb. 8; v. 283; p. 354.
- Trenton Milling Company, Trenton, Ill. Wheat-flour. No. 143,200; May 24; v. 286; p. 852.
- Trenton Milling Company, Trenton, Ill. Wheat-flour. No. 144,642; July 12; v. 288; p. 426.
- Treverton, Charles W., Scranton, Pa. Antiseptic healing preparation for open sores and for application to mucous membranes. No. 145,840; Aug. 16; v. 289; p. 598.
- Triangle Laboratories Co., Marion, Ohio. Chewing-gum. No. 139,904; Feb. 22; v. 283; p. 755.
- Triangle Overall Company, Evansville, Ind. Men's and boys' work-garments. No. 140,232; Mar. 8; v. 284; p. 368.
- Triantafylakos, Anastasios, New York, N. Y. Coffee. No. 146,011; Aug. 23; v. 289; p. 789.
- Tribble Cordage Mills Inc., Boston, Mass. Clothesline. No. 147,738; Oct. 25.
- Tribinol Chemical Co., Portland, Oreg. Chemical preparation. No. 140,233; Mar. 8; v. 284; p. 368.
- Trichel, C. E., Shreveport, La. Disinfectant, bedbug preparation, and mosquito-lotion. No. 149,263; Dec. 6.
- Trion Company, Trion, Ga. Cotton goods in the piece. No. 147,524; Oct. 18.
- Trione Piston Ring Company, St. Louis, Mo. Metal piston-rings. No. 142,340; May 10; v. 286; p. 406.
- Tripoli Importing Co., New York, N. Y. Olive-oil and black olives. No. 149,523; Dec. 13.
- Tripp, Barker & Co., New York, N. Y. Organdie piece goods. No. 139,042; Jan. 18; v. 282; p. 556.
- Tri-State Engineering Co., Zanesville, Ohio. Steam-engines, power-punches, lathes, &c. No. 139,650; Feb. 8; v. 283; p. 354.
- Tri-State Engineering Co., The, Zanesville, Ohio. Metals, forgings, and castings, &c. No. 142,797; May 17; v. 286; p. 635.
- Tri-State Ice Cream Corporation, La Crosse, Wis. Ice-cream. No. 149,524; Dec. 13.
- Tri-State Milk Products Co., Galena, Ill. Evaporated milk. No. 150,144; Dec. 27.
- Truax, John L., Worcester, Mass. Preparation for cleaning and polishing glass. No. 139,651; Feb. 8; v. 283; p. 354.
- Tru-Blu Biscuit Co., Spokane, Wash. Candy. No. 148,547; Nov. 15.
- Tru-Blu Biscuit Company, Spokane, Wash. Candy. Nos. 149,264-6; Dec. 6.
- Truby Broom Mfg. Co., Houston, Tex. Brooms. No. 146,893; Sept. 20; v. 290; p. 638.
- Trudeau, Anna, Cheboygan, Mich. Remedy for infected or running sores. No. 140,234; Mar. 8; v. 284; p. 368.
- True Shape Hosiery Co., Philadelphia, Pa. Hosiery. No. 147,252; Oct. 4.
- Truitt Brothers, Inc., Binghamton, N. Y. Shoes. No. 142,798; May 17; v. 286; p. 635.
- Truitt Brothers, Inc., Binghamton, N. Y. Shoes made of canvas and leather and combination of both. No. 143,759; June 7; v. 287; p. 188.
- Trumbly, James G., Chicago, Ill. Automobile-tops. No. 139,414; Feb. 1; v. 283; p. 172.
- Trumbower, Henry C., Philadelphia, Pa. Medicinal powder. No. 148,548; Nov. 15.
- Tubbs Cordage Company, San Francisco, Calif. Rope made from fiber. No. 144,955; July 19; v. 288; p. 623.
- Tuckaway Folding Ladder Co., Inc., New York, N. Y. Folding ladders. No. 149,526; Dec. 13.
- Tucker, Hal W., San Antonio, Tex. Coffee. No. 148,284; Nov. 8.
- Tullite Auto Bulb Company, New York, N. Y. Electric lamps. No. 146,517; Sept. 6; v. 290; p. 217.
- Tuor, Joseph B., St. Paul, Minn. Malt syrup used as a beverage. No. 150,145; Dec. 27.
- Turbine Air Tool Company, The, Cleveland, Ohio. Planers. No. 148,606; Nov. 15.
- Tur-Boy Co., The, St. Louis, Mo. Sand and draft operated toys. No. 147,823; Nov. 1.
- Turin City Extract Co., Minneapolis, Minn. Non-alcoholic fruit-juices. No. 138,725; Jan. 4; v. 282; p. 190.
- Türk Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Thread and yarn. No. 144,073; June 21; v. 287; p. 583.
- Turnac Turkish Macedonian Tobacco Company, Arnhem, Netherlands. Cigarettes, cigars, tobacco. No. 144,643; July 12; v. 288; p. 426.
- "Turnac" Turkish Macedonian Tobacco Company, Arnhem, Netherlands. Cigarette-papers and mouthpieces for cigarettes and cigars. No. 146,894; Sept. 20; v. 290; p. 638.
- "Turnac" Turkish Macedonian Tobacco Company, Arnhem, Netherlands. Cigarette-papers. No. 146,895; Sept. 20; v. 290; p. 638.
- Turnblad, Nels P., Duluth, Minn. Shoes of leather, rubber, fabric or combination thereof. No. 145,841; Aug. 16; v. 289; p. 598.
- Turnbull, J. W., Lumber Company, Philadelphia, Pa. Certain named lumber. No. 147,824; Nov. 1.
- Turner, J. S., Manufacturing Co., Lowell, Mass. Leather boots, shoes, slippers, and moccasins. No. 145,239; July 26; v. 288; p. 817.
- Turner Manufacturing Co., The, Port Washington, Wis. Internal-combustion engines. No. 148,950; Nov. 29.
- Turner & Moore Mfg. Co., Detroit, Mich. Gasolene-engines. No. 146,381; Sept. 6; v. 290; p. 204.
- Turner & Walls, New York, N. Y. Cotton piece goods. No. 143,875; June 14; v. 287; p. 402.
- Turner & Walls, New York, N. Y. Voile piece goods. No. 145,585; Aug. 9; v. 289; p. 408.
- Turney, Eugene T., Laboratories Incorporated, Holmes, N. Y. Inductance-coils and wireless apparatus. No. 145,842; Aug. 16; v. 289; p. 598.
- Turn-Of-Stop Manufacturing Corporation, New York, N. Y. Traffic-signals for vehicles. No. 144,074; June 21; v. 287; p. 583.
- Turpsene Mfg. Co., Philadelphia, Pa. Paint-reducer. No. 146,053; Aug. 23; v. 289; p. 794.
- Tuskeloid Company, Inc., New York, N. Y. Combs, pin cushions, and shoe-horns. No. 143,494; May 31; v. 286; p. 1054.
- Tuskeloid Company, Inc., New York, N. Y. Combs, pin-cushions, and shoe-horns. No. 144,075; June 21; v. 287; p. 583.
- Tuskeloid Company, Inc., New York, N. Y. Toilet articles. Nos. 144,287-8; June 28; v. 287; p. 777.
- Tutelman Brothers, Philadelphia, Pa. Men's negligée shirts. No. 141,451; Apr. 19; v. 285; p. 569.
- Tuttle, Jason H., New York, N. Y. Metal castings for dental work, consisting of bridges, crowns, inlays, and plates. No. 146,613; Sept. 13; v. 290; p. 423.
- Tuxbury, A. C., Lumber Co., Charleston, S. C. Built-up or fabricated bungalows and houses. No. 143,269; May 24; v. 286; p. 859.
- Tweddie Footwear Corporation, Jefferson City, Mo. Infants' shoes and slippers made of fabric. No. 142,341; May 10; v. 286; p. 406.
- Twill Manufacturing Co., Prescott, Iowa. Powder for the feet and armpits. No. 148,285; Nov. 8.
- Twin City Mfg. Co., Inc., Norfolk, Va. Bluing. No. 143,760; June 7; v. 287; p. 188.
- Twin City Varnish Co., St. Paul, Minn. Enamel paints, undercoating in the nature of paint, and varnishes. No. 142,799; May 17; v. 286; p. 635.
- Twin Washer Manufacturing Company, St. Paul, Minn. Laundry-washing machine. No. 142,800; May 17; v. 286; p. 635.
- Twing Laboratories, San Antonio, Tex. Vaginal and uterine remedy, antiseptic, and prophylactic. No. 140,235; Mar. 8; v. 284; p. 368.
- Twitchell-Champlin Company, The, Portland, Me., and Boston, Mass. Cream-tartar, baking-soda, sulfur, and Epsom salts. No. 146,896; Sept. 20; v. 290; p. 638.
- Twitchell-Champlin Company, Portland, Me., and Boston, Mass. Certain foods. No. 147,040; Sept. 27; v. 290; p. 806.
- Twitchell-Champlin Company, The, Portland, Me., and Boston, Mass. Cream-tartar, baking-soda, sulfur, and Epsom salts. No. 147,041; Sept. 27; v. 290; p. 806.
- Twombly, Archibald P. W., Waltham, Mass. Rheumatism medicines. No. 149,269; Dec. 6.
- Twombly, John S., Boston, Mass. All varieties of cured, salt, and canned fish and shrimp. No. 142,801; May 17; v. 286; p. 635.
- Tyler Chemical Company, Pawtucket, R. I. Furniture-polish. No. 139,415; Feb. 1; v. 283; p. 172.
- Tyler Chemical Company, Pawtucket, R. I. Gasolene-intensifier and carbon-remover. No. 140,003; Mar. 29; v. 284; p. 949.
- Tyler Chemical Company, Pawtucket, R. I. Preparation for antiseptic purposes and as a disinfectant and deodorizer. No. 140,997; Mar. 29; v. 284; p. 949.
- Tyler, W. S., Company, The, Cleveland, Ohio. Screen-separator machines. No. 139,905; Feb. 22; v. 283; p. 755.
- Tyler, W. S., Company, The, Cleveland, Ohio. Woven-wire screen-cloth. No. 148,549; Nov. 15.
- Tynan Throwing Co., Paterson, N. J. Thrown silk. No. 145,471; Aug. 2; v. 289; p. 182.
- Ty-On Frock Co., Los Angeles, Calif. House-dresses. No. 149,330; Dec. 6.
- Tyson & Co., Paris, Tenn. Pharmaceutical preparations. No. 141,450; Apr. 19; v. 285; p. 569.
- Tyson, Rose E., New York, N. Y.; Magnolia, Mass., and Palm Beach, Fla. Certain clothing. No. 145,843; Aug. 16; v. 289; p. 598.
- Uehling Instrument Co., Passaic, N. J., and New York, N. Y. Pyrometers and certain indicating and recording instruments. No. 149,529; Dec. 13.
- Uddo Brothers Company Inc., New Orleans, La. Candles. No. 141,255; Apr. 12; v. 285; p. 385.
- Ullman, Sigmund, Co., New York, N. Y. Printing-inks. No. 142,763; May 17; v. 286; p. 633.
- Ulmann, Bernhard, Co., Inc., New York, N. Y. Ribbon and textile fabrics in the piece, towels and toweling, tapestry, piece goods of cotton, linen, &c. No. 144,956; July 19; v. 288; p. 623.
- Ulmann, Bernhard, Co., Inc., New York, N. Y. Yarns, threads, floss, useful for art-needlework, &c. No. 145,194; July 26; v. 288; p. 816.



- Ulrici Medicine Co., New York, N. Y. Cerebral tonic and pulmonary medicine and tonic. Nos. 140,998-9; Mar. 29; v. 284; p. 949.
- Ulrici Medicine Co., New York, N. Y. Remedies for diseases of the throat, nasal organs, and lungs. No. 148,951; Nov. 29.
- Ulrici Medicine Co., New York, N. Y. Tonic for anemia and nervous diseases. No. 148,952; Nov. 29.
- Ultra-Gas Manufacturing Company, Richmond, Ind. Chemical preparation for use as a fuel-intensifier and carbon-remover. No. 144,077; June 21; v. 287; p. 583.
- Ultra Refined Crude Products Company, Chicago, Ill. Decolorized kerosene. No. 138,882; Jan. 11; v. 282; p. 378.
- Ultra Refined Crude Products Company, Chicago, Ill. Medicinal preparation. No. 141,704; Apr. 26; v. 285; p. 784.
- Ultra Refined Crude Products Company, Chicago, Ill. Preparation used as a polish and as a cleanser. No. 149,270; Dec. 6.
- Underhay Oil Co., Boston, Mass. Lubricating-oils. No. 140,687; Mar. 22; v. 284; p. 747.
- Underwood Typewriter Company, New York, N. Y. Typewriting machines and parts. No. 145,527; Aug. 2; v. 289; p. 187.
- Underwood Typewriter Co., New York, N. Y. Typewriting-machines and parts. No. 148,550; Nov. 15.
- Ungerer & Co., New York, N. Y. Essences suitable for the production of perfumes. No. 142,158; May 3; v. 286; p. 191.
- Ungerer & Company, Inc., New York, N. Y. Flower-extraction products useful for imparting scent to toilet preparations. No. 138,883; Jan. 11; v. 282; p. 378.
- Ungerer & Company, Inc., New York, N. Y. Natural oil of flowers, leaves, roots, stems, and gums used for scenting purposes. No. 146,153; Aug. 30; v. 289; p. 1016.
- Union Broach Co., Inc., New York, N. Y. Mouth-mirrors. No. 146,614; Sept. 13; v. 290; p. 423.
- Union Candy Company, The, Cincinnati, Ohio. Candy. No. 142,803; May 17; v. 286; p. 635.
- Union Card & Paper Co., New York, N. Y. Certain papers. No. 148,718; Nov. 22.
- Union Chain & Manufacturing Company, The, Seville, Ohio. Certain named belting and chains and links therefor. No. 139,416; Feb. 1; v. 283; p. 172.
- Union Chain & Manufacturing Company, The, Seville, Ohio. Cast-tooth sprockets, cut-tooth sprockets, friction-clutches, speed-reducers. No. 141,256; Apr. 12; v. 285; p. 385.
- Union Cutlery Co., Olean, N. Y. Pocket-cutlery, razors, shears, and butcher-knives. No. 142,804; May 17; v. 286; p. 635.
- Union Hardware Company, Torrington, Conn., and New York, N. Y. Ice racing-skates and racing roller-skates. No. 20,654; renewed Jan. 26, 1922.
- Union Hardware Company, Torrington, Conn., and New York, N. Y. Ice racing-skates and racing roller-skates. No. 20,660; renewed Jan. 26, 1922.
- Union horlogère S. A., Bienne, Switzerland. Watches. No. 144,644; July 12; v. 288; p. 426.
- Union Lumber Company, San Francisco, Calif. Lumber and forest products. No. 138,726; Jan. 4; v. 282; p. 190.
- Union Metal Manufacturing Company, The, Canton, Ohio. Metal lamp-posts for electric lights. No. 144,957; July 19; v. 288; p. 623.
- Union Mills, Inc., New York, N. Y. Knitted underwear for women and children. No. 147,706; Oct. 25.
- Union Paper & Twine Co. of Michigan, The, Detroit, Mich. Wrapping-paper. Nos. 139,221-4; Jan. 25; v. 282; p. 736.
- Union Rubber & Asbestos Co., Trenton, N. J. Rubber hose, rubber and asbestos packing, and brake-lining. No. 144,540; July 5; v. 288; p. 200.
- Union Twist Drill Company, Athol and Mansfield, Mass. Die holders, screw-plate guides, screw-plates, and screw-plate stocks. No. 145,197; July 26; v. 288; p. 816.
- Union Twist Drill Company, Athol and Mansfield, Mass. Screw-threading tools, &c. No. 146,387; Sept. 6; v. 290; p. 204.
- Union Twist Drill Company, Athol and Mansfield, Mass. Collets, thread-cutting dies, and guides therefor, die holders, &c. No. 147,707; Oct. 25.
- Union Twist Drill Company, Athol and Mansfield, Mass. Collets and certain thread-cutting tools. No. 150,146; Dec. 27.
- United Alkali Company, Limited, The, Liverpool, England. Bleaching-powder, soda-ash, soda crystals, and bicarbonates. No. 20,027; Nov. 15; renewed Aug. 11, 1921.
- United American Metals Corporation, Brooklyn, N. Y. Non-ferrous alloys. No. 139,906; Feb. 22; v. 283; p. 755.
- United Auto Stores, Inc., Philadelphia, Chester, Reading, Pottsville, and Allentown, Pa., and Atlantic City, N. J. Automobile accessories—namely, auto tubes of rubber (black and gray). No. 148,551; Nov. 15.
- United Barber Service Co., Baltimore, Md. Toilet water, pomade, hair-tonic, &c. No. 143,497; May 31; v. 286; p. 1054.
- United Belt Manufacturing Company, St. Louis, Mo. Leather belting. No. 148,953; Nov. 29.
- United Breweries Company, Chicago, Ill. Malt beverages. No. 140,454; Mar. 15; v. 284; p. 583.
- United Brush Manufactories, New York, N. Y. Paint-brushes and painters' dusters. No. 142,802; May 17; v. 286; p. 635.
- United Business Service Company, Wellesley and Wellesley Hills, Mass., and Washington, D. C. Printed publications, magazines, and periodicals issued regularly and supplements thereto. No. 149,271; Dec. 6.
- United Cereal Mills, Ltd., Quincy, Ill. Cereal breakfast foods—particularly corn flakes. No. 148,286; Nov. 8.
- United Confectioners, Newark, N. J. Natural flowers. No. 140,455; Mar. 15; v. 284; p. 583.
- United Dairy Association of Washington, Seattle, Wash. Evaporated milk, ice-cream, and powdered milk. No. 150,147; Dec. 27.
- United Drug Company, Boston, Mass. Castile-soap. No. 138,727; Jan. 4; v. 282; p. 190.
- United Drug Company, Boston, Mass. Tooth-paste. No. 139,043; Jan. 18; v. 282; p. 556.
- United Drug Company, Boston, Mass. Certain named chemicals and medicines. No. 139,417; Feb. 1; v. 283; p. 172.
- United Drug Company, Boston, Mass. Writing-paper and envelopes. No. 139,652; Feb. 8; v. 283; p. 354.
- United Drug Company, Boston, Mass. Writing tablets and paper, envelopes. No. 139,653; Feb. 8; v. 283; p. 354.
- United Drug Company, Boston, Mass. Writing-paper and envelopes. No. 139,654; Feb. 8; v. 283; p. 354.
- United Drug Company, Boston, Mass. Indelible writing-ink. No. 139,655; Feb. 8; v. 283; p. 354.
- United Drug Company, Boston, Mass. Writing-paper and envelopes. No. 140,456; Mar. 15; v. 284; p. 583.
- United Drug Company, Boston, Mass. Internal antiseptic and gastro-intestinal tonic. No. 140,457; Mar. 15; v. 284; p. 583.
- United Drug Company, Boston, Mass. Moving-picture films. No. 142,159; May 3; v. 286; p. 191.
- United Drug Company, Boston, Mass. Adhesive paste. No. 142,805; May 17; v. 286; p. 635.
- United Drug Company, Boston, Mass. Chemical, medicinal, and pharmaceutical preparations. No. 143,498; May 31; v. 286; p. 1054.
- United Drug Company, Boston, Mass. Razors and pocket-knives. No. 143,762; June 7; v. 287; p. 188.
- United Drug Company, Boston, Mass. Shoes. No. 146,382; Sept. 6; v. 290; p. 204.
- United Drug Company, Boston, Mass. Pus-pan, bedpan, regular bedpan, &c. No. 148,552; Nov. 15.
- United Drug and Candy Mfg. Co., The. (See Gardos, Armand A., assignor.)
- United Electric Company, The, Canton, Ohio. Electrically-operated vacuum-cleaners. No. 146,383; Sept. 6; v. 290; p. 204.
- United Fertilizer Company, Carrollville, Wis. Fertilizers. No. 147,825; Nov. 1.
- United Food Products Company. (See Sasseeen, John H., assignor.)
- United & Globe Rubber Company, Trenton, N. J. Belts formed of rubber and fabric, vulcanized. No. 141,452; Apr. 19; v. 285; p. 569.
- United Hosiery Company, New York, N. Y. Hosiery. No. 149,272; Dec. 6.
- United Kola Bottlers Corporation, Philadelphia, Pa. Non-alcoholic, maltless beverages and syrups for making same. No. 142,806; May 17; v. 286; p. 635.
- United Medico-Chemical Hospital, Inc., Richmond, Va. Tonic compound for treating indigestion, dyspepsia, &c. No. 146,151; Aug. 30; v. 289; p. 1016.
- United Nut and Chocolate Company, Wilkes-Barre, Pa. Salted peanuts. No. 141,257; Apr. 12; v. 285; p. 385.
- United Optical Company, Webster, Mass. Eyeglasses and spectacles. No. 140,458; Mar. 15; v. 284; p. 583.
- United Products Corporation of America, Philadelphia, Pa. Glue. No. 142,160; May 3; v. 286; p. 191.
- United Products Corporation of America, Philadelphia, Pa. Glues. No. 142,161; May 3; v. 286; p. 191.
- United Publishing Company, Kansas City, Mo. Monthly magazine. No. 149,744; Dec. 20.
- United Retail Candy Stores, Inc., New York, N. Y. Candy. Nos. 141,706-7; Apr. 26; v. 285; p. 784.
- United Shoe Machinery Company, Paterson, N. J., and Boston, Mass. Nails and tacks. No. 139,102; Jan. 18; v. 282; p. 561.
- United Shoe Machinery Corporation, Paterson, N. J., and New York, N. Y. Nails and tacks. No. 140,304; Mar. 8; v. 284; p. 374.
- United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Certain boot and shoe machines and tools. No. 149,745; Dec. 20.
- United Soap Products Co., Rochester, N. Y. Preparation for use when dissolved in water in washing and cleaning. No. 149,530; Dec. 13.
- United States Asphalt Refining Company, New York, N. Y. Asphaltum base paint. No. 149,621; Dec. 13.
- United States Auto Gear Shift Co., Eau Claire, Wis. Gear-shifts. No. 142,807; May 17; v. 286; p. 635.
- U. S. Ball Bearing Manufacturing Company, Chicago, Ill. Ball-bearings. No. 147,525; Oct. 18.
- U. S. Bottlers Machinery Co., Chicago, Ill. Monthly journal. No. 145,472; Aug. 2; v. 289; p. 182.



*Alphabetical list of registrants of trade-marks—Continued.*

- United States Chemical Co., Pittsburgh, Pa. Laxative tablet. No. 144,485; July 5; v. 288; p. 195.
- United States Chemical Co., Pittsburgh, Pa. General-  
tonic tablets. No. 147,179; Oct. 4.
- United States Electric Manufacturing Corporation, New  
York, N. Y. Flashlight cases and electric batteries.  
No. 146,384; Sept. 6; v. 290; p. 204.
- United States Envelope Company, Springfield, Mass. Mer-  
chandise-envelops. No. 139,418; Feb. 1; v. 283; p. 172.
- United States Envelope Company, Springfield, Mass. Pa-  
per drinking-cups. No. 149,531; Dec. 13.
- United States Finishing Company, The, New York, N. Y.  
Cotton piece goods. No. 140,459; Mar. 15; v. 284; p.  
583.
- United States Graphite Company, The, Saginaw, Mich.  
Powdered graphite. No. 143,496; May 31; v. 286;  
p. 1054.
- United States Gutta Percha Paint Company, Saco, Me.,  
and Providence, R. I. Ready-mixed paints. No.  
146,385; Sept. 6; v. 290; p. 204.
- United States Hammered Piston Ring Co., Irvington, N. J.  
Piston-rings. No. 139,700; Feb. 8; v. 283; p. 358.
- U. S. Industrial Alcohol Co., New York, N. Y. Composition  
containing alcohol for bathing, massage, and other  
external uses. Nos. 148,287-8; Nov. 8.
- U. S. Industrial Alcohol Co., New York, N. Y. Ethyl  
alcohol. No. 150,148; Dec. 27.
- U. S. Industrial Chemical Co., Baltimore, Md. Fertilizers.  
No. 149,532; Dec. 13.
- United States Leather Company, The, New York, N. Y.  
Sole-leather. No. 144,486; July 5; v. 288; p. 195.
- U. S. Mop Company, The, Toledo, Ohio. Furniture and  
automobile polish. No. 146,152; Aug. 30; v. 289; p.  
1016.
- U. S. Oil & Supply Co., Providence, R. I. Fulling and  
scouring oil. No. 147,016; Sept. 27; v. 290; p. 805.
- U. S. Plastic Art Works, Inc., Brooklyn, N. Y. Recep-  
tacles—namely, cigar-boxes, candy-boxes, &c. No.  
143,201; May 24; v. 286; p. 852.
- United States Playing Card Company, The, Cincinnati,  
Ohio. Playing-cards. No. 139,656; Feb. 8; v. 283; p.  
354.
- United States Playing Card Company, The, Cincinnati,  
Ohio. Playing-cards. Nos. 139,701-3; Feb. 8; v. 283;  
p. 359.
- United States Playing Card Company, The, Cincinnati,  
Ohio. Playing-cards. No. 143,499; May 31; v. 286;  
p. 1054.
- United States Playing Card Company, The, Cincinnati,  
Ohio. Playing-cards. No. 143,876; June 14; v. 287;  
p. 402.
- United States Playing Card Company, The, Cincinnati,  
Ohio. Playing-cards. Nos. 148,607-24; Nov. 15.
- United States Playing Card Company, Cincinnati, Ohio.  
Playing-cards. No. 146,518; Sept. 6; v. 290; p. 217.
- United States Playing Card Company, The, Cincinnati,  
Ohio. Playing-cards. No. 146,660; Sept. 13; v. 290;  
p. 429.
- United States Playing Card Company, The, East Norwood,  
Cincinnati, Ohio. Playing-cards. No. 139,961; Feb.  
22; v. 283; p. 764.
- United States Playing Card Company, The, East Norwood,  
Cincinnati, Ohio. Playing-cards. Nos. 147,739-44;  
Oct. 25.
- United States Products Company, Pittsburgh, Pa. Abra-  
sive bearing-fitting compounds. No. 141,258; Apr. 12;  
v. 285; p. 385.
- United States Rubber Company, New Brunswick, N. J., and  
New York, N. Y. Lumberman's boots. No. 140,065;  
Mar. 1; v. 284; p. 179.
- United States Rubber Company, New Brunswick, N. J.,  
and New York, N. Y. Overalls. No. 140,688; Mar. 22;  
v. 284; p. 747.
- United States Rubber Company, New Brunswick, N. J., and  
New York, N. Y. Hose made of rubber and fabric. No.  
142,342; May 10; v. 286; p. 406.
- United States Rubber Company, New Brunswick, N. J.,  
and New York, N. Y. Traveling-bags and portfolio like  
envelops made of imitation leather composed of rubber  
and fabric. No. 142,808; May 17; v. 286; p. 635.
- United States Rubber Company, New Brunswick, N. J.,  
and New York, N. Y. Boots and shoes made wholly or in  
part of fabric and rubber. No. 143,202; May 24; v.  
286; p. 852.
- United States Rubber Company, New Brunswick, N. J.,  
and New York, N. Y. Waterproof and weatherproof  
coats. No. 144,958; July 19; v. 288; p. 623.
- United States Rubber Company, New Brunswick, N. J.,  
and New York, N. Y. Golf-balls. No. 145,294; N. J.  
26; v. 288; p. 825.
- United States Rubber Company, New Brunswick, N. J.,  
and New York, N. Y. Golf-balls. No. 146,012; Aug.  
23; v. 289; p. 789.
- United States Rubber Company, New Brunswick, N. J., and  
New York, N. Y. Golf balls. No. 149,273; Dec. 6.
- United States Rubber Company, New Brunswick, N. J.,  
and New York, N. Y. Golf-balls. No. 149,533; Dec. 13.
- United States Sand Paper Co., Williamsport, Pa. Abra-  
sive papers and cloths. No. 141,453; Apr. 19; v. 285;  
p. 569.
- U. S. Sanitary Specialties Corporation, Chicago, Ill.  
Deodorant and germicide. No. 138,884; Jan. 11; v.  
282; p. 378.
- U. S. Sanitary Specialties Corporation, Chicago, Ill. De-  
odorant and germicide. No. 139,044; Jan. 18; v. 282;  
p. 556.
- United States and South America Corporation, The, New  
York, N. Y. Piece goods, carpets, rugs, quilts, &c. No.  
145,473; Aug. 2; v. 289; p. 182.
- United States and South America Corporation, New York,  
N. Y. Clothing. No. 145,844; Aug. 16; v. 289; p. 598.
- United States and South America Corporation, The, New  
York, N. Y. Certain named food. No. 147,708; Oct. 25.
- U. S. Specialty Mfg. Co., Somerville, Mass. Dry-cleaning  
preparation for leather and fabric. No. 147,061; Sept.  
27; v. 290; p. 808.
- United States Syrup Co., San Francisco, Calif. Syrup of  
malt and hops for making malt beverages. No. 141,259;  
Apr. 12; v. 285; p. 335.
- United States Tack Co., New Bedford, Mass. Shoe-tacks,  
channel, clenching, and cobblers' nails. No. 145,198;  
July 26; v. 288; p. 816.
- United States Tent & Awning Company, Chicago, Ill.  
Dolls. No. 142,809; May 17; v. 286; p. 635.
- United States Tire Company, New York, N. Y. Solid rub-  
ber tires for vehicles. No. 139,419; Feb. 1; v. 283;  
p. 172.
- United States Tire Company, New York, N. Y. Rubber  
vehicle-tires. No. 143,526; May 31; v. 286; p. 1056.
- United States Tire Company, New York, N. Y. Tire-  
patches made of fabric and rubber. No. 143,838; June  
7; v. 287; p. 194.
- United States Tire Company, New York, N. Y. Rubber  
vehicle-tires. No. 145,018; July 19; v. 288; p. 629.
- United States Tire Company, New York, N. Y. Vehicle-  
tires made of rubber. No. 145,528; Aug. 2; v. 289;  
p. 187.
- United States Wire Mat Co., Decatur, Ill. Certain de-  
vices for killing and disabling flies, &c. No. 146,519;  
Sept. 6; v. 290; p. 217.
- United Stock Remedies Co., Atlanta, Ga. Tonic for hogs  
and chickens. No. 146,386; Sept. 6; v. 290; p. 204.
- United Turkey Red Company Limited, The, Glasgow,  
Scotland. Certain articles of clothing. No. 147,423;  
Oct. 11.
- United Turkey Red Company, Limited, Glasgow, Scotland.  
Clothing. No. 148,553; Nov. 15.
- United Turkey Red Company, Limited, The, Glasgow, Scot-  
land. Cotton piece goods. No. 148,554; Nov. 15.
- United Turkey Red Company, Glasgow, Scotland. Cotton  
handkerchiefs not in the piece. No. 149,534; Dec. 13.
- United Turkey Red Company, Glasgow, Scotland. Cotton  
piece goods. No. 149,535; Dec. 13.
- United Vegetable Oil Refinery, Inc., Brooklyn, N. Y. Edible  
vegetable oil. No. 141,705; Apr. 26; v. 285; p. 784.
- Universal Chain Co. Inc., Stroudsburg, Pa. Chains. No.  
143,203; May 24; v. 286; p. 852.
- Universal Children's Dress Co. Inc., New York, N. Y.  
Infants' and children's colored wash-dresses. No.  
149,274; Dec. 6.
- Universal Garment Company, Inc., Philadelphia, Pa.  
Men's underwear and pajamas. No. 138,728; Jan. 4;  
v. 282; p. 190.
- Universal Garment Company, Inc., Philadelphia, Pa. Men's  
underwear of textile fabric. No. 141,454; Apr. 19; v.  
285; p. 569.
- Universal Gasket & Manufacturing Co., Chicago, Ill. Cop-  
per gaskets. No. 142,162; May 3; v. 286; p. 191.
- Universal High Power Telephone Company, Seattle, Wash.  
Telephones and parts thereof, &c. No. 149,275; Dec. 6.
- Universal Instruments and Metal Company. (See Ehlick,  
Eugene, assignor.)
- Universal Interests, Inc., New York, N. Y. Electric heat-  
ers for air. No. 141,455; Apr. 19; v. 285; p. 569.
- Universal Lamp Co., assignor to Universal Lamp Co.,  
Chicago, Ill. Burner-tips for gas-lamps. No. 143,500;  
May 31; v. 286; p. 1054.
- Universal Machine Company, The, Bowling Green, Ohio.  
Universal joints and bolt-cutters. No. 145,295; July  
26; v. 288; p. 826.
- Universal Milk Company, The, Dover, Del. Condensed  
skimmed milk mixed with coconut-oil. Nos. 138,729-30;  
Jan. 4; v. 282; p. 190.
- Universal Milking Machine Company, The, Columbus, Ohio.  
Milking-machines and parts and appurtenances thereof.  
No. 147,709; Oct. 25.
- Universal Stamping Machine Company, Stamford, Conn.  
Postmarking, metering, and other machines. No.  
145,199; July 26; v. 288; p. 816.
- Universal Tide Power Company, Boston, Mass. Motors  
actuated by the power of the tide. No. 144,150; June  
21; v. 287; p. 590.
- Universal Tide Power Company, Boston, Mass. Motors  
actuated by the power of the tide. No. 147,424; Oct. 11.
- Universal Tobacco Machine Co., New York, N. Y. To-  
bacco-working machinery. No. 148,954; Nov. 29.
- Universal Winding Company, Cranston, R. I., and Boston,  
Mass. Winding-machines for thread, yarn, cord, twine,  
&c. No. 138,885; Jan. 11; v. 282; p. 378.
- Universal Wood Products Company, St. Louis, Mo. See-  
saws. No. 139,962; Feb. 22; v. 283; p. 764.



- Unkefer Varnish Company, Chicago, Ill. Varnishes, varnish coatings, paints, enamels, paste, &c. No. 145,921; Aug. 16; v. 289; p. 605.
- Unkefer Varnish Company, Chicago, Ill. Varnishes, fillers, stains, and varnish coatings. No. 146,615; Sept. 13; v. 290; p. 423.
- Unkefer Varnish Company, Chicago, Ill. Paint enamels, paste and ready-mixed paints, &c. No. 148,555; Nov. 15.
- Uno Manufacturing Company, Mobile, Ala. Soap. No. 142,810; May 17; v. 286 p. 635.
- Urban, George, Milling Company, Buffalo, N. Y. Wheat-flour. No. 143,501; May 31; v. 286; p. 1054.
- Urban, George, Milling Company, Buffalo, N. Y. Wheat-flour. No. 144,959; July 19; v. 288; p. 623.
- Urick, Willis E., Los Angeles, Calif. Fresh cantaloups, cauliflower, onions, tomatoes, and grapes. No. 144,960; July 19; v. 288; p. 623.
- U-Rub-It Chemical Co., Philadelphia, Pa. Certain medicinal preparations. No. 147,180; Oct. 4.
- "U-Save-It" Stores Association, Inc., Birmingham, Ala. Wooden counters, shelving, wood and glass show-cases. No. 139,420; Feb. 1; v. 283; p. 172.
- Usbeck, George F., New York, N. Y. Folding music-roll holders which can be attached to pianos. No. 142,811; May 17; v. 286; p. 635.
- Usit Manufacturing Co. of America, Inc., Brooklyn, N. Y. Cleanser for hands, silverware, shampoo, &c. No. 140,241; Mar. 8; v. 284; p. 368.
- Utilitool Company, Chicago, Ill. Combination-tools of the plier type. No. 142,812; May 17; v. 286; p. 635.
- Uva Grape Products Company, San Francisco, Calif. Grape-juice. No. 142,343; May 10; v. 286; p. 406.
- Uzum Products Co., Inc., New York, N. Y. Waterless soap. No. 144,289; June 28; v. 287; p. 777.
- V. Loewer's Gambrinus Brewery Co., New York, N. Y. Non-alcoholic malt beverages. No. 140,424; Mar. 15; v. 284; p. 582.
- Vacuum Belting Company, Indianapolis, Ind. Belting. No. 144,961; July 19; v. 288; p. 623.
- Vacuum Oil Company, New York, N. Y. Oils, greases, waxes of all kinds, &c. No. 145,845; Aug. 16; v. 289; p. 599.
- Vaeth, Laura M., Cleveland, Ohio. Hair-tonic. No. 143,502; May 31; v. 286; p. 1054.
- Vail Brothers, Philadelphia, Pa. Depilatory in powder, paste, and liquid form. No. 139,657; Feb. 8; v. 283; p. 354.
- Vail, Ed. S., Butterine Co., Chicago, Ill. Oleomargarin. No. 147,446; Oct. 11.
- Vail Hat Co., Inc., New York, N. Y. Ladies' and children's hats. No. 144,078; June 21; v. 287; p. 583.
- Val Blatz Brewing Company, Milwaukee, Wis. Non-alcoholic near beer, malt-tonic, and malt-syrup. No. 146,388; Sept. 6; v. 290; p. 204.
- Val Blatz Jr. Candy Co., Milwaukee, Wis. Candy. No. 141,708; Apr. 26; v. 285; p. 784.
- Valdosta Retort Co., Valdosta, Ga. Retorts for distilling wood. No. 146,616; Sept. 13; v. 290; p. 423.
- Valdosta Retort Co., Valdosta, Ga. Pine-oil prepared and colored for use as a wood stain and preservative. No. 150,149; Dec. 27.
- Valenstein, Joseph H., New York, N. Y. Ladies' dresses, waists, and undergarments. No. 145,586; Aug. 9; v. 289; p. 408.
- Vain, Charles H., Wollaston, Mass. Frostings for pastries. No. 149,276; Dec. 6.
- Valley Electric Company. (See St. Louis Electrical Works, assignor.)
- Valley Laboratories, Buffalo, N. Y. Remedies for treatment of indigestion. No. 147,181; Oct. 4.
- Valley Packing Company, Salem, Oreg. Packing-house products. No. 144,645; July 12; v. 288; p. 426.
- Vanadium Alloys Steel Co., Latrobe and Pittsburgh, Pa. Steel. No. 139,421; Feb. 1; v. 283; p. 172.
- Van Antwerp's Drug Corporation Inc., Mobile, Ala. Face-powder. No. 146,054; Aug. 23; v. 289; p. 795.
- Van Antwerp's Drug Corporation, Inc., Mobile, Ala. Candy. No. 149,536; Dec. 13.
- Van Bergh Silver Plate Co., Rochester, N. Y. Silver-plated hollow ware. No. 146,520; Sept. 6; v. 290; p. 217.
- Van Bysterveld, Anton W., Grand Rapids, Mich. General tonic. No. 146,897; Sept. 20; v. 290; p. 638.
- Van Camp Hardware & Iron Company, Indianapolis, Ind. Hoes, rakes, forks, &c. No. 139,103; Jan. 18; v. 282; p. 561.
- Van Cleave, L. D., Joplin, Mo. Mouth-wash for use in curing the tobacco habit. No. 145,847; Aug. 16; v. 289; p. 599.
- Vanderbilt, R. T., Inc., New York, N. Y. Clay used as a filler in the manufacture of paper. No. 140,689; Mar. 22; v. 284; p. 747.
- Vanderbilt, R. T., Co., Inc., New York, N. Y. Chemical compound used as an accelerator in the preparation and manufacturing of vulcanized rubber. No. 146,898; Sept. 20; v. 290; p. 638.
- Vanderbilt, R. T., Co., Inc., New York, N. Y. Clay used as a filler in the manufacture of paper and as a coating for wall-paper. No. 149,277; Dec. 6.
- Vandervoort Brothers, Incorporated, Buffalo, N. Y. Finger-rings. No. 144,962; July 19; v. 288; p. 623.
- Vander Zanden, J., Green Bay, Wis. Jewelry and precious-metal ware. No. 148,289; Nov. 8.
- Vandewart, Mark, New York, N. Y. Sweaters, coats, scarfs, &c. No. 142,813; May 17; v. 286; p. 635.
- Van Doren, Harry W., Pulaski, Va. Non-alcoholic malt-less beverage. No. 149,537; Dec. 13.
- Vandoren, Michel E., Paris, France. Reeds of musical instruments. No. 142,815; May 17; v. 286; p. 635.
- Van Dyk and Reeves, Brooklyn, N. Y. Dates. No. 146,389; Sept. 6; v. 290; p. 204.
- Van Dyk and Reeves, Brooklyn, N. Y. Fresh dates. No. 150,151; Dec. 27.
- Van Dyke, George A., New Brunswick, N. J. Oil dressing and paste for softening, preserving, and waterproofing leather and ropes. No. 142,814; May 17; v. 286; p. 635.
- Van Houten, C. J., & Zoon, Weesp, Netherlands, and Chicago, Ill. Cocoa. No. 146,390; Sept. 6; v. 290; p. 204.
- Vanity Fair Silk Mills, Reading, Pa. Silk cloth in the piece. No. 139,422; Feb. 1; v. 283; p. 172.
- Vanity Fair Silk Mills, Reading, Pa. Article of clothing. No. 141,456; Apr. 19; v. 285; p. 569.
- Vanity Fair Studios, Inc., Philadelphia, Pa. Photographs. No. 147,066; Sept. 27; v. 290; p. 809.
- Van Raalte Company, Inc., New York, N. Y. Veils, veilings, and nettings in the piece. No. 147,182; Oct. 4.
- Vantex Chemical Company, Memphis, Tenn., and New York, N. Y. Skin-ointment. No. 150,152; Dec. 27.
- Vantine, A. A., & Co., Inc., New York and Long Island City, N. Y. Toilet water, perfume extract, sachet, &c. No. 140,236; Mar. 8; v. 284; p. 368.
- Van Vleet-Mansfield Drug Co., Memphis, Tenn. Antiseptic. No. 146,014; Aug. 23; v. 289; p. 789.
- Van Vleet-Mansfield Drug Co., Memphis, Tenn. Medicinal preparation known as a chill-tonic. No. 149,538; Dec. 13.
- Van Winkle, John H., East Orange, N. J. Teas, coffees, food-flavoring extracts, spices. No. 148,290; Nov. 8.
- Van Zanten, M. Veldhuyzen, & Zonen, Lisse, Netherlands. Bulbs, plants, seed. No. 146,617; Sept. 13; v. 290; p. 423.
- Vapor-Vacuum Heating Co., Philadelphia, Pa. Vapor-vacuum heating system and certain parts thereof. No. 146,521; Sept. 6; v. 290; p. 217.
- Vaporet Corporation, The, Milwaukee, Wis. Carbureters and vaporizers for internal-combustion engines. No. 147,425; Oct. 11.
- Vassilatos Bros., Chicago, Ill. Shoe polishes and dressings. No. 142,816; May 17; v. 286; p. 635.
- Vath, Charles J., San Jose, Calif. Apple cider, ginger-ale, root-beer, sarsaparilla. No. 143,204; May 24; v. 286; p. 852.
- Vaughan & Bushnell Manufacturing Company, Chicago, Ill. Tools. No. 139,658; Feb. 8; v. 283; p. 354.
- Vaughn, Joshua E., Los Angeles, Calif. Powder used to soften and perfume water. No. 140,237; Mar. 8; v. 284; p. 368.
- Vedo Medicine Company, The, Canton, Ohio. Tonic and appetizer for influenza, indigestion, &c. No. 146,391; Sept. 6; v. 290; p. 204.
- Vee Gee Mfg. Co., Omaha, Neb. Chemical gasoline-saver in tablet form. No. 144,290; June 28; v. 287; p. 777.
- Vegetab Co., The, Lexington, Ky. Laxative medicine. No. 140,022; Mar. 1; v. 284; p. 174.
- Venoz Beverage Company, Inc., Brooklyn, N. Y. Non-alcoholic, cereal, malt beverages. No. 141,000; Mar. 29; v. 284; p. 949.
- Vermont Butterine Co., Inc., Providence, R. I. Oleomargarin. No. 146,392; Sept. 6; v. 290; p. 204.
- Vernon, S. E. & M., Inc., New York, N. Y. Writing-tablets, composition, memorandum and note books. No. 140,238; Mar. 8; v. 284; p. 368.
- Veronica Medicinal Springs Water Co., Santa Barbara, Calif. Mineral waters. No. 144,291; June 28; v. 287; p. 777.
- Vibration Specialty Company, Philadelphia, Pa. Certain named testing-machines. No. 139,225; Jan. 25; v. 282; p. 736.
- Vibroplex Company, Inc., The, New York, N. Y. Telegraphic sending-machines. No. 148,291; Nov. 8.
- Vick, W. S., Chemical Co., Knoxville, Tenn. Salve for inflammations. No. 145,848; Aug. 16; v. 289; p. 599.
- Victor Balata & Textile Belting Co., New York, N. Y., and Easton, Pa. Solid woven cotton belting. No. 140,322; Mar. 15; v. 284; p. 579.
- Victor Balata & Textile Belting Co., New York, N. Y., and Easton, Pa. Textile belting. No. 148,991; Dec. 6.
- Victor Brewing Company, The, Jeannette, Pa. Beer. No. 145,474; Aug. 2; v. 289; p. 182.
- Victor Manufacturing Company, Dayton, Ohio. Wrenches. No. 144,079; June 21; v. 287; p. 583.
- Victor Rubber Company, The, Springfield, Ohio. Rubber and fabric outer casings for pneumatic automobile-tires and inner tubes for same. No. 149,278; Dec. 6.
- Victor Shoe Machinery Company, Lynn, Mass. Certain shoe machinery. No. 146,618; Sept. 13; v. 290; p. 423.
- Victor Shoe Machinery Company, Lynn, Mass. Certain shoe machinery. No. 147,426; Oct. 11.
- Victor Shoe Machinery Company, Lynn, Mass. Shoe-thread. No. 148,292; Nov. 8.
- Victorius, A. V., & Company, New York, N. Y. Hosiery. No. 140,690; Mar. 22; v. 284; p. 747.
- Victorius, A. V., & Company, New York, N. Y. Hosiery. No. 142,163; May 3; v. 286; p. 191.



*Alphabetical list of registrants of trade-marks—Continued.*

- Victorius, A. V., & Company, Inc., New York, N. Y. Hosiery. No. 145,849; Aug. 16; v. 289; p. 599.
- Victorius, A. V., & Company, Inc., New York, N. Y. Hosiery. No. 148,293; Nov. 8.
- Victory Bag & Paper Co., Chicago, Ill. Paper bags. No. 147,711; Oct. 25.
- Victory Hammered Piston Ring Company, Newark, N. J. Piston-rings. No. 141,709; Apr. 26; v. 285; p. 784.
- Victory Oil Burner Company, Houston, Tex. Crude-oil burners. No. 148,294; Nov. 8.
- Victory Rubber Manufacturing Co., Atlanta, Ga. Rubber pneumatic tires. No. 145,200; July 26; v. 288; p. 816.
- Viebrock, Cord, Brooklyn, N. Y. Candy. No. 141,457; Apr. 19; v. 285; p. 569.
- Viking Sign Company, Inc., New York, N. Y. Electrical advertising and directional signs of all kinds. No. 144,963; July 19; v. 288; p. 623.
- Vincennes Candy Co., Inc., Vincennes, Ind. Chocolate creams. No. 148,295; Nov. 8.
- Vino Medical Co. Inc., New York, N. Y. Medicine for the treatment of malaria. No. 146,055; Aug. 23; v. 289; p. 795.
- Vino Medical Co. Inc., New York, N. Y. Liquid medicines used as tonics and as mild laxatives. No. 147,183; Oct. 4.
- Vino Medical Co. Inc., New York, N. Y. Tonic for diabetics. No. 150,153; Dec. 27.
- Vino Medical Company, Inc., New York, N. Y. Laxative and tonic preparation. Nos. 146,899-900; Sept. 20; v. 290; p. 638.
- Vinson Coffee Company, Jackson, Tenn. Coffee. No. 150,154; Dec. 27.
- Virginia Trunk and Bag Co., Petersburg, Va. Trunks and traveling-bags. No. 148,296; Nov. 8.
- Virocacao Company, Inc., The, assignor to L. S. Moos, New York, N. Y. Food composition containing cocoa and medicated ingredients. No. 141,001; Mar. 29; v. 284; p. 949.
- Visonneau, Sarah E., San Francisco, Calif. Carpet renovator and cleaner. No. 143,504; May 31; v. 286; p. 1054.
- Vitalait Laboratory, The, Newton and Newton Center, Mass. Bacteriological starting culture. No. 149,279; Dec. 6.
- Vitek, Charles, Chicago, Ill. Hose-clamps. No. 148,297; Nov. 8.
- Vitreous Enameling Company, The, Cleveland, Ohio. Metal trays and pans. No. 142,903; May 17; v. 286; p. 642.
- Vivaudou, V., Inc., New York, N. Y. Face, talcum, and toilet powders. No. 139,704; Feb. 8; v. 283; p. 359.
- Vivaudou, V., Inc., New York, N. Y. Toilet preparations. No. 141,002; Mar. 29; v. 284; p. 949.
- Vivaudou, V., Inc., New York, N. Y. Toilet preparations. No. 146,013; Aug. 23; v. 289; p. 789.
- Vivaudou, V., Inc., New York, N. Y. Toilet preparations. No. 146,901; Sept. 20; v. 290; p. 638.
- Vivaudou, V., Inc., New York, N. Y. Tooth-pastes. No. 146,902; Sept. 20; v. 290; p. 638.
- Vivaudou, V., Inc., New York, N. Y. Rouge and face-powder. No. 148,746; Nov. 22.
- Vocalstyle Music Company, The, Cincinnati, Ohio. Perforated music-rolls for self-playing musical instruments. No. 140,462; Mar. 15; v. 284; p. 583.
- Voegele & Dinning Co. Inc., Lynchburg, Va. Candy. No. 146,056; Aug. 23; v. 289; p. 795.
- Vogan Candy Company, Portland, Oreg. Candies. No. 140,239; Mar. 8; v. 284; p. 368.
- Vogan Candy Company, Portland, Oreg. Candies. No. 140,463; Mar. 15; v. 284; p. 583.
- Vogan Candy Company, Portland, Oreg. Candy. No. 141,710; Apr. 26; v. 285; p. 784.
- Vogan Candy Company, Portland, Oreg. Candy. No. 144,964; July 19; v. 288; p. 623.
- Vogan Candy Company, Portland, Oreg. Package-candy. No. 145,850; Aug. 16; v. 289; p. 599.
- Vogel Bros. Hat Co., New York, N. Y. Trimmed and untrimmed hats for women and children. No. 143,763; June 7; v. 287; p. 188.
- Vogel, Gustave, St. Louis, Mo. Hair-nets manufactured from silk and hair. No. 139,659; Feb. 8; v. 283; p. 354.
- Vogel, Gustave, St. Louis, Mo. Hair-nets. No. 144,965; July 19; v. 288; p. 623.
- Vogelmann, Joseph A., Brooklyn, N. Y. Semi-annual publication. No. 145,587; Aug. 9; v. 289; p. 408.
- Vogue Motor Car Company, Tiffin, Ohio. Automobiles, automobile-bodies, and motor-trucks. No. 139,045; Jan. 18; v. 282; p. 556.
- Voigt Company, Philadelphia, Pa. Electric-lighting fixtures. No. 144,487; July 5; v. 288; p. 195.
- Vollva, Wilbur G., Zion, Ill. Hard-candy mixture. No. 141,458; Apr. 19; v. 285; p. 569.
- Vollmer Warehouse & Milling Co., Vollmer, Idaho. Wheat-flour. No. 144,646; July 12; v. 288; p. 426.
- Volta Battery Company, Indianapolis and Martinsville, Ind. Battery-boxes, switch-boards, and generators. No. 148,298; Nov. 8.
- Voltax Company, The, Bridgeport, Conn. Ready-mixed paints and paint enamels. No. 146,903; Sept. 20; v. 290; p. 638.
- Von Bonnewitz, Orlando R., New York, N. Y. Salve and ointments for treatment of rectal diseases. No. 141,459; Apr. 19; v. 285; p. 569.
- Von Bremen, Asche & Co., New York, N. Y. Sardines and olive-oil. No. 146,015; Aug. 23; v. 289; p. 789.
- Voorhees Rubber Mfg. Co., Jersey City, N. J. Rubber hose. No. 139,046; Jan. 18; v. 282; p. 556.
- Vortex Manufacturing Company, The, Cleveland, Ohio. Waterproof cement. No. 144,674; July 12; v. 288; p. 429.
- Vosburgh (Inc.), Chicago, Ill. Shampoo liquid and shampoo jelly. No. 139,047; Jan. 18; v. 282; p. 556.
- Voter, G. H., Inc., Boston, Mass. Wood-preserved. No. 148,747; Nov. 22.
- Vought & Williams, New York, N. Y. Rubber horseshoe-pads. No. 142,344; May 10; v. 286; p. 406.
- Vox Chemical Company, The, Montreal, Quebec, Canada. Antiseptic pastils for throat affections. No. 140,240; Mar. 8; v. 284; p. 368.
- Voy, Alfred F., Rockford, Ill. Fishing-tackle case. No. 148,955; Nov. 29.
- Vryonis, Spero G., Bridgeport, Conn. Medicinal preparations. No. 144,488; July 5; v. 288; p. 195.
- Vulca Laboratories, San Francisco, Calif. Self-vulcanizing patch for mending automobile-tires. No. 139,907; Feb. 22; v. 283; p. 756.
- Vulcan Crucible Steel Company, Aliquippa, Pa. Steel. No. 139,423; Feb. 1; v. 283; p. 172.
- Vulcan Crucible Steel Company, Aliquippa, Pa. Tool-steel. No. 148,956; Nov. 29.
- Vulcan Motor Axle Corporation, Detroit, Mich. Axles for pleasure automobiles and automobile trucks. No. 150,155; Dec. 27.
- Vulcanite Roofing Company, The, Wilmington, Del., and Buffalo, N. Y. Shingles, roofing tile and slabs, composition roofing, and roofing cement. No. 143,764; June 7; v. 287; p. 188.
- Vulcanite Roofing Company, The, Wilmington, Del., and Buffalo, N. Y. Shingles, roofing, tile and slabs, and roofing-cement. Nos. 144,292-3; June 28; v. 287; p. 777.
- Vulcanite Roofing Company, The, Wilmington, Del., and Buffalo, N. Y. Shingles, roofing tile and slabs, &c. Nos. 145,851-2; Aug. 16; v. 289; p. 599.
- W. P. Tanner-Gross & Company, Inc., New York, N. Y. Cornmeal. No. 145,293; July 26; v. 288; p. 825.
- W-M-P Manufacturing Company, Lohrville, Iowa. Corn-popping machine. No. 138,926; Jan. 11; v. 282; p. 383.
- Wabash Baking Powder Company, Wabash, Ind. Coffee, tea, and spices. No. 146,393; Sept. 6; v. 290; p. 204.
- Wabash Baking Powder Company, Wabash, Ind. Coffee and tea. No. 148,299; Nov. 8.
- Wabash Basket Co., Converse, Ind. Baskets made from wood splints. No. 142,345; May 10; v. 286; p. 406.
- Wabash Basket Company, Marion, Swayzee, Converse, Bunker Hill, and Somerset, Ind. Various kinds of baskets. No. 150,157; Dec. 27.
- Wabash Valley Electric Co., Clinton, Ind. Electrical ranges and washing-machines. No. 145,475; Aug. 2; v. 289; p. 182.
- Wade, L. B., Co., Boston and Lynn, Mass. Polish for use on automobiles, furniture, &c. No. 150,158; Dec. 27.
- Wadhams Oil Company, Milwaukee, Wis. Illuminating-oils and gasolene. No. 139,104; Jan. 18; v. 282; p. 561.
- Wadsworth, George W., Chicago, Ill. Weekly insurance publication. No. 144,080; June 21; v. 287; p. 533.
- Wadsworth, Howland & Co., Inc., Boston, Mass. Varnishes. No. 145,853; Aug. 16; v. 289; p. 599.
- Wadsworth, Howland & Co., Inc., Boston, Mass. Liquid paint for interior finish. No. 145,922; Aug. 16; v. 289; p. 605.
- Wadsworth, Howland & Co., Incorporated, Boston, Mass. Liquid paint for interior finish. No. 146,394; Sept. 6; v. 290; p. 204.
- Wadsworth - Howland Company, Chicago, Ill. Barn-paint. No. 146,395; Sept. 6; v. 290; p. 204.
- Wadsworth - Howland Company, Chicago, Ill. Mixed paint, varnish, enamel for decorative purposes, and liquid wood-filler. No. 146,396; Sept. 6; v. 290; p. 204.
- Wadsworth-Howland Company, Chicago, Ill. Paint enamel for decorative purposes. No. 148,556; Nov. 15.
- Wagman & Kates, Philadelphia, Pa. Children's dresses. No. 143,505; May 31; v. 286; p. 1054.
- Wagner, Angeline E., Shreveport, La. Hair-grower. No. 143,207; May 24; v. 286; p. 852.
- Wagner, Elmer Edward, Hazleton, Pa. Overalls and jackets. No. 147,889; Nov. 1.
- Wagner, Horace C., Walters, Okla. Medicinal preparation used in the treatment of biliousness, constipation. No. 149,280; Dec. 6.
- Wagner's W. S., Sons Co., Cincinnati, Ohio. Non-alcoholic maltless minted lime beverage. No. 150,159; Dec. 27.
- Wahl Company, The, Chicago, Ill. Lead-pencils. No. 147,712; Oct. 25.
- Wales Dove Bitumastic Limited, Newcastle-on-Tyne, England. Paints and painters' materials. Nos. 141,260-7; Apr. 12; v. 285; p. 385.
- Wales Dove Bitumastic Limited, Newcastle-on-Tyne, England. Bituminous paint. Nos. 143,208-10; May 24; v. 286; p. 852.
- Waistcraft Corporation, New York, N. Y. Waists. No. 149,281; Dec. 6.



- Wakamoto, Sumimatsu, Seattle, Wash. Ointment for burns, cuts, boils, &c. No. 141,004; Mar. 29; v. 284; p. 949.
- Wakefield, F. W., Brass Company, The, Vermilion, Ohio. Electric-lamp fixtures and parts. No. 142,817; May 17; v. 286; p. 635.
- Wakefield, Lucy F., Geneva, Fla. Fruit preserves, jellies, jams, &c. No. 142,164; May 3; v. 286; p. 191.
- Walcoff, Phil., & Co., Inc., New York, N. Y. Boys' outer clothing. No. 145,201; July 26; v. 288; p. 816.
- Walcott Lathe Company, Jackson, Mich. Lathes and shapes and parts of same. No. 147,253; Oct. 4.
- Waldeck, Charles Alfred Company Inc., The. Vaporizing apparatus. No. 149,539; Dec. 13.
- Waldeck, Charles Alfred, Company, Inc., The, Baltimore, Md. Certain medical preparations. No. 150,160; Dec. 27.
- Valdes & Co., Prague, Bohemia. Needles, hair and hat pins, buttons, &c. Nos. 138,732-3; Jan. 4; v. 282; p. 190.
- Waldes & Co., Prague, Bohemia. Knitting-needles, thimbles, coat-hangers adapted to be attached to garments, &c. No. 139,660; Feb. 8; v. 283; p. 354.
- Waldes & Co., Prague, Bohemia. Paper. No. 139,908; Feb. 22; v. 283; p. 756.
- Waldes & Co., Prague, Bohemia. Paper. No. 141,268; Apr. 12; v. 285; p. 385.
- Waldes & Co., Prague, Bohemia. Fancy goods and notions. No. 142,165; May 3; v. 286; p. 191.
- Waldes & Co., Prague, Bohemia. Cigarette-papers, portable makers, and tubes. Nos. 142,818-19; May 17; v. 286; p. 635.
- Waldes & Co., Prague, Bohemia. Cigarette-paper and portable makers. No. 142,820; May 17; v. 286; p. 635.
- Waldes & Co., Prague, Bohemia. Cigarette-papers, portable makers, and tubes. No. 142,821; May 17; v. 286; p. 635.
- Waldes & Co., Prague, Bohemia. Cigarette-paper cut to size and ready for use, portable cigarette-makers, &c. No. 143,211; May 24; v. 286; p. 852.
- Waldes & Co., Prague, Bohemia. Paper. No. 143,506; May 31; v. 286; p. 1054.
- Waldes & Co., Prague, Bohemia. Cigarette-paper cut to size and ready for use, portable cigarette-makers and cigarette-tubes made of paper. Nos. 146,904-5; Sept. 20; v. 290; p. 638.
- Waldes & Co., Prague, Bohemia. Certain notions, such as garment-fasteners, pins, &c. No. 147,427; Oct. 11.
- Waldes & Co., Prague, Bohemia, assignor to Waldes & Co., Inc. Certain notions, such as garment-fasteners, needles, pins. No. 148,304; Nov. 8.
- Waldes & Co., Inc., Long Island City and New York, N. Y. Lead and magazine pencils, pencil-holders, crayons, &c. No. 141,005; Mar. 29; v. 284; p. 949.
- Waldo, E. M. & F., New York, N. Y. Pigment having a combination of purposes. No. 146,397; Sept. 6; v. 290; p. 204.
- Waldo, E. M. & F., New York, N. Y. Chemical used in the manufacture of rubber. No. 146,398; Sept. 6; v. 290; p. 204.
- Waldo, E. M. & F., New York, N. Y. Pigment having a combination of purposes. No. 146,399; Sept. 6; v. 290; p. 204.
- Waldo, E. M. & F., New York, N. Y. Certain chemical compound. No. 147,713; Oct. 25.
- Waldorf Paper Products Company, St. Paul, Minn. Plaster-board. No. 144,966; July 19; v. 288; p. 624.
- Wales Adding Machine Company, Kingston, Pa. Adding, listing, calculating, and bookkeeping machines. No. 139,105; Jan. 18; v. 282; p. 561.
- Walker, Benjamin, Redwood City, Calif. Preparation for chapped hands, scalds, burns, sunburn. No. 145,923; Aug. 16; v. 289; p. 605.
- Walker Brothers Company, Syracuse, N. Y. Dish-washing machines. No. 144,081; June 21; v. 287; p. 583.
- Walker Chemical Company, The, Pittsburgh, Pa. Chemicals. No. 141,006; Mar. 29; v. 284; p. 949.
- Walker, J. Murray, Boston, Mass. House organ published monthly. No. 144,082; June 21; v. 287; p. 583.
- Walker, John H., Ravenshorpe, near Dewsbury, England. Piece goods, handkerchiefs, table-cloths, counterpanes, &c. Nos. 141,711-12; Apr. 26; v. 285; p. 784.
- Walker, Mme. C. J., Mfg. Co., Indianapolis, Ind. Toilet preparations. No. 143,212; May 24; v. 286; p. 852.
- Walker Properties Association, Austin, Tex. Canned chilli-con-carne and hot tamales. No. 146,522; Sept. 6; v. 290; p. 217.
- Walker, W. & F., Limited, Liverpool, England. Common soap and cleaning preparations for fabrics. No. 144,294; June 28; v. 287; p. 777.
- Walker, William, & Company Limited, Belfast, Ireland. Damask napkins, tablecloths, and towels. No. 141,007; Mar. 29; v. 284; p. 950.
- Wallace & Co., Brooklyn, N. Y. Chocolates. No. 138,734; Jan. 4; v. 282; p. 190.
- Wallace & Co., Brooklyn, N. Y. Candies. No. 146,523; Sept. 6; v. 290; p. 217.
- Wallace Motor Products Corporation, New York, N. Y. Oil-gages for automobiles. No. 142,166; May 3; v. 286; p. 192.
- Wallace, R. & Sons, Mfg. Co., The, Wallingford, Conn. Silver-plated flat and hollow ware. No. 143,877; June 14; v. 287; p. 402.
- Wallace, R., & Sons Mfg. Co., The, Wallingford, Conn. Certain German-silver flat-ware. No. 150,161; Dec. 27.
- Wallace, Scott & Co., Limited, Glasgow, Scotland. Suits and overcoats for men, women, and boys. No. 144,439; July 5; v. 288; p. 196.
- Waller, Carrie, North Birmingham, Ala. Hair tonic and dressing, dandruff-extractor, &c. No. 143,765; June 7; v. 287; p. 188.
- Walling, Dr. B. W., & Co., Poolesville, Md. Calomel compound cathartic capsules. No. 139,226; Jan. 25; v. 282; p. 736.
- Walsh, Thomas A., Yonkers, N. Y. Medicinal preparation. Nos. 142,167-8; May 3; v. 286; p. 192.
- Walsh, Thomas A., Yonkers, N. Y. Medicinal preparations. No. 143,213; May 24; v. 286; p. 852.
- Walter, Charles A., Anna, Ill. Liquid preparation for removing old varnish, wax, dirt, grease, &c. No. 149,746; Dec. 20.
- Walters, L. Burton, New York, N. Y. Oil-vaporizers used in connection with oil-burning stoves and furnaces. No. 141,008; Mar. 29; v. 284; p. 950.
- Waltham Bag & Paper Company, Waltham, Mass. Paper bags and boxes. No. 148,300; Nov. 8.
- Walther, Louis, Manufacturing Company, Philadelphia, Pa. Worsted, woolen, worsted and cotton, and worsted and silk piece goods. No. 148,957; Nov. 29.
- Walton Hosiery Mills, Statesville, N. C. Ladies' and children's cotton, wool, and silk hosiery. No. 148,958; Nov. 29.
- Walton Milling Company, Lansing, Mich. Cereal foods commonly known as breakfast cereals. No. 145,476; Aug. 2; v. 289; p. 182.
- Walworth Manufacturing Company, Boston, Mass. Steam, water, and gas pipe fittings and steam, water, and gas valves. No. 142,346; May 10; v. 286; p. 406.
- Walworth Manufacturing Company, Boston, Mass. Pipe-fitting tools. No. 143,507; May 31; v. 286; p. 1054.
- Walworth Sales Corporation, New York, N. Y. Woolen and cotton piece goods. No. 145,477; Aug. 2; v. 289; p. 182.
- Wanamaker, John, New York, N. Y. Soap. No. 144,967; July 19; v. 288; p. 624.
- Wandell Chocolate Company, Inc., Baltimore, Md. Candy. No. 150,162; Dec. 27.
- Wander Company, The, Chicago, Ill. Crystalline malt-extract products for use as a tonic. No. 143,214; May 24; v. 286; p. 852.
- Wander Company, The, Chicago, Ill. Malt extract. No. 146,906; Sept. 20; v. 290; p. 638.
- Wander Company, The, Chicago, Ill. Barley-malt extract. No. 147,184; Oct. 4.
- Wander Company, The, Chicago, Ill. Crystalline malt extract. No. 148,301; Nov. 8.
- Wapakoneta Manufacturing Company, The, Wapakoneta, Ohio. Chemical fire-extinguishing material. No. 143,215; May 24; v. 286; p. 852.
- Wapato Melon Growers Assn., Wapato, Wash. Cantaloupes. No. 141,269; Apr. 12; v. 285; p. 385.
- Waples-Platter Grocer Company, Denison, Tex. Coffee. No. 146,016; Aug. 23; v. 289; p. 789.
- Ward, A. Jae, Lincoln, Nebr. Ointment for certain ailments. No. 145,854; Aug. 16; v. 289; p. 599.
- Ward Baking Company, New York, N. Y. Bread. No. 138,735; Jan. 4; v. 282; p. 190.
- Ward Baking Company, New York, N. Y. Cake. No. 139,661; Feb. 8; v. 283; p. 354.
- Ward Baking Company, New York, N. Y. Bread. Nos. 141,009-10; Mar. 29; v. 284; p. 950.
- Ward Baking Company, New York, N. Y. Bread. No. 141,460; Apr. 19; v. 285; p. 569.
- Ward Baking Company, New York, N. Y. Bread. No. 141,713; Apr. 26; v. 285; p. 784.
- Ward Baking Company, New York, N. Y. Bread. No. 143,216; May 24; v. 286; p. 852.
- Ward Baking Company, New York, N. Y. Bread. No. 146,619; Sept. 13; v. 290; p. 423.
- Ward Baking Company, New York, N. Y. Ingredient used in the manufacture of bread, &c. No. 147,826; Nov. 1.
- Ward Baking Company, New York, N. Y. Cake. No. 149,540; Dec. 13.
- Ward Baking Company, New York, N. Y. Bread. No. 150,163; Dec. 27.
- Ward Baking Company, New York, N. Y. Cake. No. 150,164; Dec. 27.
- Ward Bros. Co., Inc., Buffalo and Rochester, N. Y. Bread and cake. No. 139,048; Jan. 18; v. 282; p. 556.
- Ward Bros. Co., Inc., Buffalo and Rochester, N. Y. Bread and cake. No. 141,303; Apr. 12; v. 285; p. 389.
- Ward, George S., New York, N. Y. Soda-spoon holders. No. 147,526; Oct. 18.
- Ward Leonard Electric Company, Mount Vernon, N. Y. Electric resistance units, rheostats, regulators, and electric resistors. Nos. 147,827-8; Nov. 1.
- Ward-Stilson Company, The, Anderson, Ind. Aprons and house-dresses. No. 145,588; Aug. 9; v. 286; p. 408.
- Ware Chemical Co., The, Dallas, Tex. Medicinal compound for the treatment of derangement of the stomach and bowels of infants. No. 144,490; July 5; v. 288; p. 196.
- Ware Chemical Co., The, Dallas, Tex. Medicinal powders and tablets for diseases and derangement of the stomach and bowels. No. 145,855; Aug. 16; v. 289; p. 599.
- Ware Chemical Co., The, Dallas, Tex. Remedy for diarrhea, &c. No. 145,856; Aug. 16; v. 289; p. 599.



*Alphabetical list of registrants of trade-marks—Continued.*

- Ware, Nellie M., Cleveland, Ohio. Complexion-creams, hair-tonics, and beautifiers. No. 147,185; Oct. 4.
- Ware Shoals Mfg. Co., Ware Shoals, S. C. Cotton piece goods. No. 146,937; Sept. 20; v. 290; p. 642.
- Warneke & Hay Co., Inc., New York, N. Y. Articles of jewelry—namely, wedding and engagement rings. No. 147,714; Oct. 25.
- Warner Brothers Company, The, Bridgeport, Conn. Brassieres, bandeaux, camisoles, and corset-covers. No. 141,011; Mar. 29; v. 284; p. 950.
- Warner, Flora M., Baltimore, Md. White and colored bond-paper. No. 140,691; Mar. 22; v. 284; p. 747.
- Warner-Godfrey Co., New York, N. Y. Cotton piece goods. No. 140,692; Mar. 22; v. 284; p. 747.
- Warner-Godfrey Co., New York, N. Y. Cotton piece goods. No. 141,461; Apr. 19; v. 285; p. 569.
- Warner, William R., & Co., Inc., Wilmington, Del.; New York, N. Y., and St. Louis, Mo. Certain medicinal preparation. No. 148,719; Nov. 22.
- Warren & Campbell, New York, N. Y. Men's and boys' hats and caps. No. 143,527; May 31; v. 286; p. 1056.
- Warren, Levy L., Louisville, Ky. Periodical issued monthly. No. 147,892; Nov. 1.
- Warren, S. D., Company, Boston, Mass. Printing-paper. No. 145,924; Aug. 16; v. 289; p. 605.
- Warren, S. D., Company, Boston, Mass. Printing-paper. No. 148,305; Nov. 8.
- Warren, Webster & Company, Camden, N. J. Valves for controlling steam and water. No. 146,400; Sept. 6; v. 290; p. 204.
- Warrensburg Canning Company, Warrensburg, Ill. Canned corn. No. 145,481; Aug. 2; v. 289; p. 182.
- Warwick Bottling Works, Chicago, Ill. Non-alcoholic fruit beverage. No. 143,217; May 24; v. 286; p. 852.
- Warwick Novelties Inc., Pawtucket, R. I. Jewelry. No. 141,816; Apr. 26; v. 285; p. 794.
- Wash With Ease Company, Chicago, Ill. Clothes-washing powder. No. 149,622; Dec. 13.
- Washburn-Crosby Company, Minneapolis, Minn. Wheat-flour. No. 138,736; Jan. 4; v. 282; p. 190.
- Washburn-Crosby Company, Minneapolis, Minn. Wheat-flour. No. 148,320; Nov. 8.
- Washburn & Granger, Inc., New York, N. Y. Grates and incinerators. No. 146,661; Sept. 13; v. 290; p. 429.
- Washburn, Ira D., Company, The, Cincinnati, Ohio. Paints, enamels, varnishes, &c. No. 144,647; July 12; v. 288; p. 426.
- Washington Grain & Milling Co., Reardon, Wash. Wheat-flour. No. 143,767; June 7; v. 287; p. 188.
- Washington Growers Packing Corporation, Vancouver, Wash. Dried fruits. No. 142,822; May 17; v. 286; p. 635.
- Washington Growers Packing Corporation, Vancouver, Wash. Dried fruits. No. 146,907; Sept. 20; v. 290; p. 638.
- Washington Tire & Rubber Company, Spokane, Wash. Rubber and fabric vehicle-tires, tubes, tire boots and patches. No. 139,424; Feb. 1; v. 283; p. 172.
- Waterbury Felt Company, The, Skaneateles Falls, N. Y. Paper-makers' woolen felts and jackets. No. 144,968; July 19; v. 288; p. 624.
- Waterloo Saddlery Company, The, Waterloo, Iowa. Harness. No. 146,620; Sept. 13; v. 290; p. 423.
- Waters-Weismann Co. Inc., The, Binghamton, N. Y. Petticoats. No. 140,464; Mar. 15; v. 284; p. 583.
- Waters-Weismann Co., Inc., The, Binghamton, N. Y. Cotton piece goods of plain weave. No. 140,693; Mar. 22; v. 284; p. 747.
- Watier, James H., Dayton, Ohio. Liquid preparation for certain medicinal uses. No. 140,242; Mar. 8; v. 284; p. 368.
- Watkins Beverage Company, The, Bloomington, Ill. Non-alcoholic maltless beverages. No. 143,218; May 24; v. 286; p. 852.
- Watkins, Edwin D., Memphis, Tenn. Between-meal cake for children. No. 146,908; Sept. 20; v. 290; p. 638.
- Watkins, Frederick A., Chicago, Ill. Telephone-mouthpieces. No. 149,623; Dec. 13.
- Watkins, J. W., & Co., Inc., McKenzie, Tenn. Cotton-pickers' sacks. No. 144,491; July 5; v. 288; p. 196.
- Watson, Angus, & Co., Newcastle-upon-Tyne, England. Preserved fish. No. 139,049; Jan. 18; v. 282; p. 556.
- Watson, Charles G., Lebanon, Mo. Laxative, cathartic, and bowel-tonic. No. 143,219; May 24; v. 286; p. 852.
- Watson, John, Warren Company, Philadelphia, Pa. Shock-absorbers for vehicles. No. 143,508; May 31; v. 286; p. 1054.
- Watt, William, Mount Dora, Fla. Citrus fruits in their natural state. No. 149,282; Dec. 6.
- Watts, Ritter & Company, Huntington, W. Va., and New York, N. Y. Hosiery. No. 148,303; Nov. 8.
- Waugh, A. W., Fruit Co., Wilmington, Del., and Brooklyn, N. Y. Unfermented cider. No. 144,969; July 19; v. 288; p. 624.
- Waukegan Drug Company, Waukegan, Ill. Hair-tonics. No. 143,220; May 24; v. 286; p. 852.
- Waverly Oil Works Company, Pittsburgh, Pa. Petroleum lubricating and illuminating oils, petroleum fuel-oils, and greases. No. 140,465; Mar. 15; v. 284; p. 583.
- Waxed Products Company, Inc., Brooklyn, N. Y. Waxed paper. No. 150,165; Dec. 27.
- Waxide Paper Co., Kansas City, Mo. Wax-paper. No. 148,306; Nov. 8.
- Wayagamack Pulp & Paper Co. Limited, Three Rivers, Quebec, Canada. Paper. No. 141,714; Apr. 26; v. 285; p. 784.
- Wayne Belting and Supply Co., Fort Wayne, Ind. Leather, rubber, and composition belting. No. 141,012; Mar. 29; v. 284; p. 950.
- Wayne Knitting Mills, Fort Wayne, Ind. Hosiery. No. 147,890; Nov. 1.
- Wayne Oil Tank & Pump Company, Fort Wayne, Ind. Nozzles and nozzle-casings. No. 139,050; Jan. 18; v. 282; p. 556.
- Wayne Oil Tank & Pump Company, Fort Wayne, Ind. Tanks. No. 139,227; Jan. 25; v. 282; p. 736.
- Wayne Oil Tank & Pump Company, Fort Wayne, Ind. Pipe-line or flow meters. No. 139,425; Feb. 1; v. 283; p. 172.
- Wayne Paper Goods Company, Fort Wayne, Ind. Horse-shoe games. No. 149,283; Dec. 6.
- Wayne Works, Richmond, Va. Ferrous and non-ferrous metal castings. No. 142,823; May 17; v. 286; p. 635.
- Wearweve Fabrics Corporation, New York, N. Y. Hosiery. No. 147,715; Oct. 25.
- Webber, Charles H., Portland, Oreg. Sectional garages and houses. No. 149,806; Dec. 20.
- Weber, Carl H., Calumet, Okla. Poultry medicine for blind stagers, limberneck, &c. No. 145,857; Aug. 16; v. 289; p. 599.
- Weber Flour Mills Corporation, The, Salina, Kans. Wheat-flour. No. 149,541; Dec. 13.
- Weber, Jacob H., Brooklyn, N. Y. Talking-machines and cabinets. No. 141,715; Apr. 26; v. 285; p. 784.
- Webers, Milwaukee, Wis. Candy. No. 140,305; Mar. 8; v. 284; p. 374.
- Webster Electric Company, Racine, Wis. Dynamo-electric machines. No. 139,106; Jan. 18; v. 282; p. 561.
- Webster Electric Company, Racine, Wis. High and low tension ignition-magnets, magneto-brackets, electrodes, and magneto push-rods. No. 141,304; Apr. 12; v. 285; p. 389.
- Webster, Fred, Paper Company, Holyoke, Mass. Paper and stationery. No. 144,151; June 21; v. 287; p. 590.
- Webster, Fred, Paper Company, Holyoke, Mass. Writing and typewriting paper. No. 148,307; Nov. 8.
- Webster, Harry W., Toledo, Ohio. Wall-paper. No. 146,401; Sept. 6; v. 290; p. 204.
- Wechsler Barber Silk Co. Inc., New York, N. Y. Fabrics in the piece of silk and silk mixtures. Nos. 144,083-4; June 21; v. 287; p. 583.
- Wechsler Barber Silk Co. Inc., New York, N. Y. Silk and silk-mixture fabrics in the piece. No. 144,696; July 19; v. 288; p. 615.
- Wechsler Barber Silk Co. Inc., New York, N. Y. Women's waists, dresses, and women's silk underwear. No. 146,909; Sept. 20; v. 290; p. 638.
- Wechsler, Barber Silk Co., Inc., New York, N. Y. Silk and silk-mixture fabrics in the piece. No. 148,720; Nov. 22.
- Weichsel Barber Supply Co., Dallas, Tex. Certain toilet preparations. No. 147,716; Oct. 25.
- Weichsel Laboratories, Dallas, Tex. Talcum powder, cold-cream, tooth-paste, and toilet water. No. 143,768; June 7; v. 287; p. 188.
- Weichsel Laboratories, Dallas, Tex. Mud massage-cream, cold and vanishing creams, face-powder. No. 149,284; Dec. 6.
- Weidely Motors Company, Indianapolis, Ind. Internal-combustion engines. No. 146,403; Sept. 6; v. 290; p. 204.
- Weightman Chemical Company, Greensburg, Pa. Certain liniment. No. 147,042; Sept. 27; v. 290; p. 806.
- Weil, E. A., Company, East Savannah, Ga. Shoes. No. 147,717; Oct. 25.
- Weingarten Bros. Inc., New York, N. Y. Corsets, brassieres, and corset-covers. No. 141,817; Apr. 26; v. 285; p. 794.
- Weinschenker, Michael, Baltimore, Md. Medicinal preparations. No. 141,716; Apr. 26; v. 285; p. 784.
- Weinstein, Frank A., Pittsburgh, Pa. General tonics. No. 149,285; Dec. 6.
- Weinstein, Louis J., New York, N. Y. Composition for making dental models and flask investments for molding vulcanite. No. 142,825; May 17; v. 286; p. 636.
- Weinstein, Louis J., New York, N. Y. Composition for making dental models and investments. Nos. 142,826-7; May 17; v. 286; p. 636.
- Weinstein, Louis J., New York, N. Y. Composition for making hard refractory dental models and investments. No. 142,828; May 17; v. 286; p. 636.
- Weinstein, Louis J., New York, N. Y. Composition for making refractory dental investments. Nos. 142,820-30; May 17; v. 286; p. 636.
- Weinstein, Louis J., New York, N. Y. Composition for making refractory dental models and investments. No. 142,824; May 17; v. 286; p. 635.
- Weir Frog Company, The, Norwood, Ohio. Frogs, guard-rail clamps, rail-braces, ties. No. 146,402; Sept. 6; v. 290; p. 204.
- Weisberger, Joseph, Jersey City, N. J. Laxative wafers. No. 141,013; Mar. 29; v. 284; p. 950.
- Weise, Albert F., Schenectady, N. Y. Polish for automobiles, furniture, &c. No. 143,769; June 4; v. 287; p. 188.
- Weiser, David, Philadelphia, Pa. Tea. No. 142,831; May 17; v. 286; p. 636.



- Weisert, Ida M., New York, N. Y. Dress-protector in the nature of a bloomer-apron. No. 145,858; Aug. 16; v. 289; p. 599.
- Weiss, Benjamin, New York, N. Y. Children's underwear-garments. No. 143,770; June 7; v. 287; p. 188.
- Weissberg, Hyman, New York, N. Y. Yarns. No. 148,308; Nov. 8.
- Weissenbach & Kay, Inc., New York, N. Y. Piece goods. No. 143,509; May 31; v. 286; p. 1054.
- Weissman, Herman, New York, N. Y. Jewelry, precious, semi-precious, and artificial stones, and artificial pearls. No. 142,169; May 3; v. 286; p. 192.
- Weitzel Lumber Company, Philadelphia, Pa. Lumber. No. 143,774; June 7; v. 287; p. 188.
- Welch, C. S., Company, The, New York, N. Y. Complexion-powder, toilet rouge, and talcum powder. No. 139,051; Jan. 18; v. 282; p. 556.
- Welch Grape Juice Company, The, Westfield, N. Y. Jam, jelly, fruit preserves, and conserves. Nos. 145,478-9; Aug. 2; v. 289; p. 182.
- Welch, Gustin, Niagara Falls, N. Y. Inhalers. No. 146,621; Sept. 13; v. 290; p. 423.
- Welch, Jas. A., Buffalo, N. Y. General tonic. No. 144,085; June 21; v. 287; p. 583.
- Welch, William O., Milwaukee, Wis. Photographs. No. 147,829; Nov. 1.
- Weldon Drug Co., Weldon, N. C. Certain medicinal preparations. No. 148,721; Nov. 22.
- "Weldrite" Company Incorporated, Long Island City, N. Y. Welding, cutting, and removing torches, tips, and parts thereof. No. 149,542; Dec. 13.
- Weldy & Jump, Noblesville, Ind. Liquid chemical preparation that imparts a smoky flavor to meats. No. 139,009; Feb. 22; v. 283; p. 756.
- Welever Piston Ring Company, The, Toledo, Ohio. Piston-rings. No. 146,622; Sept. 13; v. 290; p. 423.
- Wellington, Lee R., Inglewood, Calif. Certain medicine for poultry. No. 147,186; Oct. 4.
- Wellman-Peck & Co., San Francisco, Calif. Foods. No. 144,970; July 19; v. 288; p. 624.
- Wellman-Seaver-Morgan Company, The, Cleveland, Ohio. Gas-producers, valves, furnaces, and metal-mixers. No. 141,014; Mar. 29; v. 284; p. 950.
- Wellman-Seaver-Morgan Company, The, Cleveland, Ohio. Certain machinery. No. 146,623; Sept. 13; v. 290; p. 423.
- Wells Flour Milling Company, Wells, Minn. Wheat-flour. No. 150,166; Dec. 27.
- Wells, Henry M., London, England. Heating oils, illuminating oils, and lubricating oils. No. 139,228; Jan. 25; v. 282; p. 736.
- Welsbach Company, Gloucester, N. J. Pyrophoric igniting devices. No. 147,718; Oct. 25.
- Welters, E. A., Jacksonville, Fla. Antiseptic tooth-powder. No. 141,015; Mar. 29; v. 284; p. 950.
- Welters, Edward A., Jacksonville, Fla. Tooth-powders. No. 147,719; Oct. 25.
- Wenatchee Milling Co., Wenatchee, Wash. Wheat-flour. No. 142,904; May 17; v. 286; p. 642.
- Wenck & Co., New York, N. Y. An outfit consisting of garment-buttons and attaching-thread. No. 138,737; Jan. 4; v. 282; p. 190.
- Wenck & Co., New York, N. Y. Shoe-buttons and buttons for dresses, clothing, &c. No. 138,738; Jan. 4; v. 282; p. 190.
- Wenzel, Paul M., Philadelphia, Pa. Tooth-powder and mouth-lotion. No. 148,959; Nov. 29.
- Wenzell, S. S., Machine Company, The, Philadelphia, Pa. Brushes for bottle-washing machines. No. 141,052; Mar. 29; v. 284; p. 954.
- Werner, Adolph, Milwaukee, Wis. Cloth used for polishing metal. No. 147,428; Oct. 11.
- Werner, John O., New York, N. Y. Soft-metal-grinding compound. No. 147,429; Oct. 11.
- Wert Manufacturing Company, Chicago, Ill. Brick, building-block, &c. No. 145,296; July 26; v. 288; p. 826.
- Wesco, Inc., Chicago, Ill. Monthly publication. No. 145,859; Aug. 16; v. 289; p. 599.
- West, Augustus A., Philadelphia, Pa. Hair-nets. No. 145,529; Aug. 2; v. 289; p. 187.
- West Bend Equipment Co., West Bend, Wis. Platform-trucks. No. 146,910; Sept. 20; v. 290; p. 638.
- West Coast Soap Co., Oakland, Calif. Laundry soap. No. 139,730; Feb. 15; v. 283; p. 541.
- West Electric Hair Curler Co., Philadelphia, Pa. Hair-curlers. No. 147,254; Oct. 4.
- West End Brewing Co., The, Utica, N. Y. Non-alcoholic soft drinks, flavorings, syrups, &c. No. 139,052; Jan. 18; v. 282; p. 556.
- West End Brewing Co., The, Utica, N. Y. Non-intoxicating cereal, maltless beverages. No. 144,492; July 5; v. 288; p. 196.
- West End Thread Company, The, Millbury, Mass. Thread and yarns. No. 138,739; Jan. 4; v. 282; p. 190.
- West Michigan Steel Foundry Co., Muskegon, Mich. Carbonizing, annealing, tempering, and melting pots and boxes and metal crucibles for industrial purposes. No. 146,624; Sept. 13; v. 290; p. 423.
- West Side Hay and Grain Co., assignors to J. K. Jennings, doing business as Diamond Mills, Evansville, Ind. Mixed feed. No. 142,833; May 17; v. 286; p. 636.
- Westbrook, Florence T., San Francisco, Calif. Hand-painted glassware. No. 142,170; May 3; v. 286; p. 192.
- Westendorf, Donald R., Mount Clemens, Mich. Medicinal preparation. No. 144,648; July 12; v. 288; p. 426.
- Westenfelter, Charles W., Springfield, Ohio. Corn, bunion, and callous plasters. No. 142,171; May 3; v. 286; p. 192.
- Westenfelter, Charles W., Springfield, Ohio. Laxative cold and grip remedy for la grippe, &c. No. 142,172; May 3; v. 286; p. 192.
- Wester Bros., New York, N. Y. Razors. No. 149,546; Dec. 13.
- Western Aluminum Manufacturing Company, Emeryville, Calif. Cast, pressed, and spun aluminum cooking utensils. No. 148,309; Nov. 8.
- Western Bottle Manufacturing Company, Chicago, Ill. Soap. No. 139,662; Feb. 8; v. 283; p. 354.
- Western Bottle Manufacturing Company, Chicago, Ill. Writing-paper. No. 141,270; Apr. 12; v. 285; p. 385.
- Western Bottle Manufacturing Company, Chicago, Ill. Tooth, hair, cloth, hat, nail, hand, and face brushes. No. 143,510; May 31; v. 286; p. 1054.
- Western Bottle Manufacturing Company, Chicago, Ill. Hair-nets. No. 143,771; June 7; v. 287; p. 188.
- Western Bottle Manufacturing Company, Chicago, Ill. Combs. No. 144,152; June 21; v. 287; p. 590.
- Western Bottle Manufacturing Company, Chicago, Ill. Tooth, hair, cloth, hat, nail, and face brushes. Nos. 144,295-9; June 28; v. 287; p. 777.
- Western Bottle Manufacturing Company, Chicago, Ill. Toothbrushes. No. 148,342; Nov. 8.
- Western Bottle Manufacturing Company, Chicago, Ill. Hair-nets. No. 148,960; Nov. 29.
- Western Cartridge Company, East Alton, Ill. Certain named ammunition blasting supplies and accessories. No. 139,426; Feb. 1; v. 283; p. 173.
- Western Cartridge Company, East Alton, Ill. Blasting supplies, ammunition and accessories. No. 142,347; May 10; v. 286; p. 406.
- Western Cartridge Company, East Alton and Springfield, Ill. Impregnated or coated woven fabric. No. 147,830; Nov. 1.
- Western Cartridge Company, East Alton and Springfield, Ill. Impregnated or coated woven fabrics. No. 148,557; Nov. 15.
- Western Cartridge Company, East Alton and Springfield, Ill. Targets and traps. Nos. 149,543-4; Dec. 13.
- Western Cheese and Butter Co., Nicasio, Calif. Grated cheese. No. 147,187; Oct. 4.
- Western Dry Goods Company, Seattle, Wash. Certain named articles of clothing. No. 139,427; Feb. 1; v. 283; p. 173.
- Western Dry Goods Co., Seattle, Wash. Hosiery. No. 141,717; Apr. 26; v. 285; p. 784.
- Western Dry Goods Company, Seattle, Wash. Men's and boys' work-suits. No. 142,834; May 17; v. 286; p. 636.
- Western Dry Goods Co., Seattle, Wash. Notions—namely, snap-fasteners. No. 143,511; May 31; v. 286; p. 1054.
- Western Dry Goods Co., Seattle, Wash. Blankets, quilts, bedspreads, comforts, cotton and wool piece goods, and handkerchiefs. No. 143,772; June 7; v. 287; p. 188.
- Western Dry Goods Co., Seattle, Wash. Undergarments in cotton, silk, and knitted fabrics. No. 144,296; June 28; v. 287; p. 777.
- Western Dry Goods Co., Seattle, Wash. Clothing. No. 144,971; July 19; v. 288; p. 624.
- Western Electric Company, Incorporated, New York, N. Y. Telephone apparatus. No. 138,925; Jan. 11; v. 282; p. 383.
- Western Electric Company, Incorporated, New York, N. Y. Electric washing and ironing machines used for laundry purposes. No. 139,428; Feb. 1; v. 283; p. 173.
- Western Electric Company Incorporated, New York, N. Y. Compounds used to aid the process of soldering. No. 139,910; Feb. 22; v. 283; p. 756.
- Western Electric Company, Incorporated, New York, N. Y. Thermostat heat-regulators for stoves and furnaces, voltmeters, &c. No. 142,173; May 3; v. 286; p. 192.
- Western Electric Company, Incorporated, New York, N. Y. Telephone apparatus. No. 144,493; July 5; v. 288; p. 196.
- Western Electric Company, Incorporated, New York, N. Y. Friction-tape. No. 144,494; July 5; v. 288; p. 196.
- Western Electric Company, New York, N. Y. Friction-tape. No. 144,649; July 12; v. 288; p. 426.
- Western Electric Company, Incorporated, New York, N. Y. Paints and varnishes. No. 149,545; Dec. 13.
- Western Feed Manufacturers, Inc., Chicago, Ill. Dairy feed. No. 147,430; Oct. 11.
- Western Grain Company, Fort Smith, Ark. Cornmeal. No. 144,495; July 5; v. 288; p. 196.
- Western Grocer Company, Marshalltown, Iowa. Coffee. No. 139,429; Feb. 1; v. 283; p. 173.
- Western Industries Co., San Francisco, Calif. Denatured alcohols and potash, soda, barium, and chrome salts. No. 144,086; June 21; v. 287; p. 583.
- Western Martha Washington Candies Company, Chicago, Ill. Candies. Nos. 146,057-8; Aug. 23; v. 289; p. 795.
- Western Petroleum Co., Incorporated, Chicago, Ill. Motor-oil, cup and transmission greases, &c. No. 145,202; July 26; v. 288; p. 816.
- Western Sausage & Provision Co., Inc., New York, N. Y. Dried sausages. No. 142,395; May 10; v. 286; p. 411.



- Western Sausage & Provision Co., Inc., New York, N. Y. Sausages. No. 142,835; May 17; v. 286; p. 636.
- Western Sierra Products Company, Pacoima, Calif. Cleaning-polish for metal and glass. No. 143,775; June 7; v. 287; p. 188.
- Western Soap Company, Spokane, Wash. Laundry soap. No. 150,167; Dec. 27.
- Western Soap Products Company, Modesto, Calif. Soap. No. 139,663; Feb. 8; v. 283; p. 354.
- Western Textile Co., Chicago, Ill. Raincoats and men's overcoats and suits. No. 147,431; Oct. 11.
- Western Vulcanizer Manufacturing Company, Chicago, Ill. Stationary vulcanizers. No. 138,927; Jan. 11; v. 282; p. 383.
- Western Vulcanizer Manufacturing Company, Chicago, Ill. Preparation to prevent tires from sticking to molds. No. 144,153; June 21; v. 287; p. 590.
- Western Wallboard Co., Seattle, Wash. Wall-board. No. 149,624; Dec. 13.
- Western Wire Products Co., St. Louis, Mo. Bed-springs or spring-mattresses for beds. No. 148,625; Nov. 15.
- Westfeldt Bros., New Orleans, La. Coffee. No. 144,972; July 19; v. 288; p. 624.
- Westfield Manufacturing Company, Westfield, Mass. Pedal-driven three-wheel juvenile vehicles. Nos. 138,740-1; Jan. 4; v. 282; p. 190.
- Westfield Manufacturing Company, Westfield, Mass. Juvenile two-wheel coasting vehicles. No. 142,832; May 17; v. 286; p. 636.
- Westinghouse Air Brake Co., Wilmerding Pa. Packing. No. 143,512; May 31; v. 286; p. 1054.
- Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric stoves used in making paste. No. 144,675; July 12; v. 288; p. 429.
- Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical apparatus. No. 146,662; Sept. 13; v. 290; p. 429.
- Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Certain engines and machinery. No. 150,168; Dec. 27.
- Westinghouse Union Battery Co., Swissvale, Pa. Secondary batteries and connectors therefor. No. 142,348; May 10; v. 286; p. 406.
- Westinghouse Union Battery Co., Swissvale, Pa. Secondary batteries and connectors therefor. No. 149,625; Dec. 13.
- Westmoreland, Wade H., Indianapolis, Ind. Cleaning and washing powder. Nos. 145,482-3; Aug. 2; v. 289; p. 182.
- Wetterwald & Pfister Co., New York, N. Y. Anilin dyes. No. 139,053; Jan. 18; v. 282; p. 556.
- Wetzsteins, M., Sons, New York, N. Y. Cured and smoked tongues. No. 148,626; Nov. 15.
- Wexler, Goldstein & Company, Philadelphia, Pa. Children's suits and outer garments. No. 140,694; Mar. 22; v. 284; p. 747.
- Wexler, Goldstein & Co., Philadelphia, Pa. Dolls. No. 148,961; Nov. 29.
- Wharton, William, Jr., & Co., Incorporated, Easton, Pa. Gas cylinders or bottles. No. 144,298; June 28; v. 287; p. 777.
- Wheel Truing Brake Shoe Co., Detroit, Mich. Brake-shoes provided with an abrasive face for grinding car-wheels while in use. No. 142,223; May 3; v. 286; p. 196.
- Wheeler Banking System and Industrial-Credit Association, Washington, D. C. Combined certificates of deposit and withdrawal slips, &c. No. 139,911; Feb. 22; v. 283; p. 756.
- Wheeler, William C., Oklahoma, Okla. Publication published monthly. No. 145,484; Aug. 2; v. 289; p. 182.
- Wheeling Corrugating Company, Wheeling, W. Va. Sheet-metal gas and oil stoves, ovens, stovepipe elbows, &c. No. 145,485; Aug. 2; v. 289; p. 182.
- Wheeling Corrugating Company, Wheeling W. Va. Building material. No. 145,486; Aug. 2; v. 289; p. 182.
- Wheeling Corrugating Company, Wheeling, W. Va. Sheet-metal poultry-houses and smokehouses. No. 145,860; Aug. 16; v. 289; p. 599.
- Wheeling Corrugating Company, Wheeling, W. Va. Stovepipes and stove-dampers. No. 146,938; Sept. 20; v. 290; p. 643.
- Wheeling Corrugating Company, Manchester, Wheeling, W. Va. Metal ceilings and shingles and expanded metal lath. No. 146,939; Sept. 20; v. 290; p. 643.
- Wheeling Corrugating Company, Wheeling, W. Va. Sheet-metal culverts, well-casings, flood-gates, and lead gas connections. No. 148,310; Nov. 8.
- When Clothing Company, Indianapolis, Ind. Clothing and gents' furnishing goods. No. 146,911; Sept. 20; v. 290; p. 638.
- Whit Manufacturing Company, Inc., Buffalo, N. Y. Toys—viz., soap-bubble pipes. No. 143,513; May 31; v. 286; p. 1054.
- Whitaker-Glessner Company, Wheeling, W. Va. Iron and steel sheets. Nos. 145,297-8; July 26; v. 288; p. 826.
- Whitaker Paper Company, The, Baltimore, Md. Wrapping paper. No. 146,404; Sept. 6; v. 290; p. 204.
- Whitall Tatum Company, New York, N. Y. Hot-water bottles and bags, fountain-syringes, &c. No. 143,839; June 7; v. 287; p. 194.
- Whitcher, Frank W., Company, Portland, Me., and Boston, Mass. Fabricated insoling. No. 142,224; May 3; v. 286; p. 196.
- Whitcher, Frank W., Company, Portland, Me., and Boston, Mass. Fabricated insoling. Nos. 145,530-1; Aug. 2; v. 289; p. 187.
- Whitcher, Frank W., Company, Portland, Me., and Boston, Mass. Fabricated insoling. No. 148,311; Nov. 8.
- White, A. J., Limited, New York, N. Y. Laxative medicines. No. 146,017; Aug. 23; v. 289; p. 789.
- White, Alice M. M., Elmhurst, N. Y. Waterproof garments for small children. No. 144,973; July 19; v. 288; p. 624.
- White Company, The, Baltimore, Md. Liquid-concrete hardener. No. 143,221; May 24; v. 286; p. 852.
- White, David, Co., Inc., Milwaukee, Wis. Drawing and surveying instruments. No. 146,405; Sept. 6; v. 290; p. 204.
- White Eagle Brewing Company, The, Chicago, Ill. Near beer. No. 148,312; Nov. 8.
- White, Ernest M., Los Angeles, Calif. Lubricant-deflecting devices for use in connection with internal-combustion engines. No. 149,286; Dec. 6.
- White Flame Light Co., Grand Rapids, Mich. Lamp burners. No. 142,905; May 17; v. 286; p. 642.
- White Flame Light Co., Grand Rapids, Mich. Lamp-burners. No. 145,019; July 19; v. 288; p. 630.
- White, H. C., Company, North Bennington, Vt. Four-wheeled play-wagons and coasters for children. No. 148,962; Nov. 29.
- White, H. C., Company, North Bennington, Vt. Three and four wheeled play-wagons and coasters for children. No. 149,287; Dec. 6.
- White Heat Products Company, The, West Chester, Pa. Abrasive powder and wheels. No. 145,862; Aug. 16; v. 289; p. 599.
- White Heat Products Company, The, West Chester, Pa. Crude abrasive material, crushed abrasive material, (ungraded,) and abrasive grains. No. 149,288; Dec. 6.
- White, Ira, Schenectady, N. Y. Medicine for scours. No. 145,863; Aug. 16; v. 289; p. 599.
- White, J. J., Paper Co., Canton, Mass. Waterproof papers. No. 146,406; Sept. 6; v. 290; p. 204.
- White, James F., & Co., Inc., New York, N. Y. Cotton piece goods. Nos. 150,169-71; Dec. 27.
- White Mountains Candies. (See Davis, Emerson, assignor.)
- White, Philip, Philadelphia, Pa. Sweaters. No. 142,349; May 10; v. 286; p. 406.
- White, Philip, Philadelphia, Pa. Sweaters. No. 142,906; May 17; v. 286; p. 642.
- White, R. H., Company, Boston, Mass. Toilet waters, perfumes, extracts, cold-cream, &c. No. 144,087; June 21; v. 287; p. 583.
- White Rock Mineral Springs Company, Waukesha, Wis., and New York, N. Y. Mineral waters. No. 145,203; July 26; v. 288; p. 816.
- White, S. S., Dental Manufacturing Company, Philadelphia, Pa. Toilet preparations, nerve-paste, &c. No. 144,676; July 12; v. 288; p. 429.
- White, S. S., Dental Manufacturing Company, Philadelphia, Pa. Monthly publication. No. 145,861; Aug. 16; v. 289; p. 599.
- White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Fibrous gold for filling teeth. No. 146,625; Sept. 13; v. 290; p. 423.
- White Star Candy Company, Albany, N. Y. Candy. No. 143,222; May 24; v. 286; p. 852.
- White Star Canning Co., East San Pedro, Calif. Canned tuna fish. No. 141,718; Apr. 26; v. 285; p. 784.
- White Tar Aniline Corp., The, New York, N. Y. Dystuffs and coal-tar intermediates. No. 147,188; Oct. 4.
- White, Wm. Wallace, New York, N. Y. Monthly publication. No. 139,664; Feb. 8; v. 283; p. 355.
- White & Wyckoff Manufacturing Company, Holyoke, Mass. Paper and stationery. No. 143,878; June 14; v. 287; p. 402.
- White & Wyckoff Manufacturing Company, Holyoke, Mass. Paper and stationery. No. 145,925; Aug. 16; v. 289; p. 605.
- Whitehall Pharmacal Co., New York, N. Y. Medicated absorbent cotton. No. 140,467; Mar. 15; v. 284; p. 584.
- Whitehead Bros. Rubber Co., The, Trenton, N. J. Hose of rubber and cotton canvas duck. No. 145,864; Aug. 16; v. 289; p. 599.
- Whiteley, E. E., Temple, Tex. Shampoo. No. 144,496; July 5; v. 288; p. 196.
- Whitewater Flour Mills Company, The, Whitewater and Ottawa, Kans. Certain named food for humans and animals. No. 139,431; Feb. 1; v. 283; p. 173.
- Whitfield, Albert S., Chattanooga, Tenn. Medicinal preparation. No. 149,289; Dec. 6.
- Whitfield, Joseph C., Palisades Park, N. J. Natural gas. No. 140,466; Mar. 15; v. 284; p. 583.
- Whitfield, Joseph C., Palisades Park, N. J. Natural gas. No. 150,172; Dec. 27.
- Whiting Foundry Equipment Co., Harvey, Ill. Certain named machinery. No. 139,229; Jan. 25; v. 282; p. 736.
- Whiting Foundry Equipment Co., Harvey, Ill. Electrically-operated machinery. No. 139,912; Feb. 22; v. 283; p. 756.
- Whiting Foundry Equipment Co., Harvey, Ill. Foundry-cupolas, steel-converters, core-ovens, &c. No. 140,468; Mar. 15; v. 284; p. 584.



- Whiting Foundry Equipment Co., Harvey, Ill. Core-oven cars, charging-cars, &c. No. 143,223; May 24; v. 286; p. 853.
- Whiting-Mead Commercial Co., Los Angeles, Calif. Plumbing supplies. No. 149,548; Dec. 13.
- Whiting Paper Company, Holyoke, Mass. Writing-paper. No. 138,928; Jan. 11; v. 282; p. 383.
- Whiting Paper Company, Holyoke, Mass. Writing-paper. No. 140,046; Mar. 1; v. 284; p. 177.
- Whiting Paper Company, Holyoke, Mass. Ledger and writing papers. No. 143,773; June 7; v. 287; p. 188.
- Whiting Paper Company, Holyoke, Mass. Writing-paper tablets, and mailing-envelops. No. 143,777; June 7; v. 287; p. 188.
- Whiting Paper Company, Holyoke, Mass. Bristol-boards. No. 144,974; July 19; v. 288; p. 624.
- Whiting Paper Company, Holyoke, Mass. Writing-papers and mailing-envelops. No. 147,527; Oct. 18.
- Whiting Paper Company, Holyoke, Mass. Index and bristol boards. No. 150,173; Dec. 27.
- Whitlock Cordage Co., Jersey City, N. J., and New York, N. Y. Rope of manila fiber. No. 142,836; May 17; v. 286; p. 636.
- Whitlock Cordage Co., Jersey City, N. J., and New York, N. Y. Manila rope. No. 142,837; May 17; v. 286; p. 636.
- Whitman Electric Manufacturing Co., Whitman, Mass. Plug-fuses. No. 144,650; July 12; v. 288; p. 426.
- Whitman, Stephen F. & Son, Inc., Philadelphia, Pa. Candy. No. 139,430; Feb. 1; v. 283; p. 173.
- Whitman, Stephen F. & Son, Philadelphia, Pa. Candy. No. 139,705; Feb. 8; v. 283; p. 359.
- Whitman, Stephen F. & Son, Inc., Philadelphia, Pa. Candies. No. 143,776; June 7; v. 287; p. 188.
- Whitman, Stephen F. & Son, Inc., Philadelphia, Pa. Candies. No. 147,043; Sept. 27; v. 290; p. 806.
- Whitman, Stephen F. & Son, Inc., Philadelphia, Pa. Candy. No. 149,290; Dec. 6.
- Whittemore Brothers, Corporation, Cambridge, Mass. Shoe-dressing. No. 146,524; Sept. 6; v. 290; p. 218.
- Whittemore Brothers Corporation, Cambridge, Mass. Dressing and cleaners for articles made of leather and fabric. No. 147,067; Sept. 27; v. 290; p. 809.
- Whitney, Summers and Swim, Modesto, Calif. Dried fruits and fresh deciduous fruits. No. 138,742; Jan. 4; v. 282; p. 190.
- Whittall, M. J., Associates, Worcester, Mass. Rugs and carpets of textile material. Nos. 144,541-2; July 5; v. 288; p. 200.
- Whittall, M. J., Associates, Worcester, Mass. Wilton, Brussels, and plush rugs and carpets. No. 146,626; Sept. 13; v. 290; p. 423.
- Whitaker, Lillian E., Cincinnati, Ohio. Paper flowers and figures or representation of other objects. No. 139,230; Jan. 25; v. 282; p. 737.
- Whittemore Brothers Corporation, Cambridge, Mass. Dressing to be used on leather and articles made therefrom. Nos. 138,764-5; Jan. 4; v. 282; p. 192.
- Whittemore Brothers Corporation, Cambridge, Mass. Polish and leather-dressing for leather and other sheet material. No. 138,766; Jan. 4; v. 282; p. 192.
- Whittemore Brothers, Corporation, Cambridge, Mass. Dressing for leather and articles made therefrom. No. 141,016; Mar. 29; v. 284; p. 950.
- Whittemore Brothers Corporation, Cambridge, Mass. Dressing to be used on leather and articles made thereof. No. 145,487; Aug. 2; v. 289; p. 182.
- Whittemore Brothers Corporation, Cambridge, Mass. Dye to be used on leather and articles made therefrom. No. 145,865; Aug. 16; v. 289; p. 599.
- Whittier, Charles T., New York, N. Y. Puddings and pie-fillings. No. 145,488; Aug. 2; v. 289; p. 182.
- Whittier Citrus Association, Whittier, Calif. Fresh citrus fruits. No. 145,489; Aug. 2; v. 289; p. 182.
- Whowell, Charles E., Brooklyn, N. Y. Chocolate-cocoa nut bars. No. 142,838; May 17; v. 286; p. 636.
- Whyt E namel Specialty Co. Inc., Brooklyn, N. Y. Bathroom-fixtures of enameled ware. Nos. 145,204-5; July 26; v. 288; p. 816.
- Wichert & Gardiner, Brooklyn, N. Y. Shoes and slippers. No. 146,525; Sept. 6; v. 290; p. 218.
- Wichita Flour Mills Co., The, Wichita, Kans. Wheat-flour. Nos. 149,549-50; Dec. 13.
- Wichita Flour Mills Co., The, Wichita, Kans. Wheat-flour. No. 150,174; Dec. 27.
- Wichita Mill & Elevator Company, Wichita Falls, Tex. Wheat-flour. No. 141,063; Apr. 5; v. 285; p. 187.
- Wichita Mill and Elevator Company, Wichita Falls, Tex. Wheat-flour. No. 144,975; July 19; v. 288; p. 624.
- Wichita Motors Company, Wichita Falls, Tex. Commercial motor-vehicles. No. 140,306; Mar. 8; v. 284; p. 374.
- Wichita Motors Company, Wichita Falls, Tex. Publication. No. 141,271; Apr. 12; v. 285; p. 385.
- Wichita Motors Company, Wichita Falls, Tex. Motor-trucks. No. 145,020; July 19; v. 288; p. 630.
- Wickwire Spencer Steel Corporation. (See National Mfg. Company, assignor.)
- Wickwire Spencer Steel Corporation, Worcester, Mass. Woven-wire screen-cloth. No. 146,407; Sept. 6; v. 290; p. 204.
- Wickwire Spencer Steel Corporation, Worcester, Mass. Garment-hangers, fly traps, swatters, &c. No. 147,831; Nov. 1.
- Wickwire Spencer Steel Corporation, Worcester, Mass. Certain household tools. No. 150,175; Dec. 27.
- Widney Company, The, Chicago, Ill. Seat pads and cushions. No. 142,839; May 17; v. 286; p. 636.
- Wiebusch & Hilger, Limited, New York, N. Y. Grass-hooks. No. 145,866; Aug. 16; v. 289; p. 599.
- Wiedemann, Geo., Company, The, Newport, Ky. Non-beverage grain-alcohol. No. 150,176; Dec. 27.
- Wiegand, Edwin L., Pittsburgh, Pa. Electrical heating and resistor elements, particularly electric-sadiron-heating units. No. 148,963; Nov. 29.
- Wiegand, Martin, St. Louis, Mo. Vaporizers. No. 139,665; Feb. 8; v. 283; p. 355.
- Wiegel Candy Co., Tacoma, Wash. Cough-candy. No. 140,244; Mar. 8; v. 284; p. 368.
- Wielich, Albert, New York, N. Y. Malt extracts. No. 149,747; Dec. 20.
- Wielich, Albert, New York, N. Y. Malt extracts. No. 150,177; Dec. 27.
- Wiggins, Austin A., Cleveland, Ohio. Soap. No. 147,432; Oct. 11.
- Wilder, Mae E., Rochester, N. Y. Lotion for the complexion. No. 140,245; Mar. 8; v. 284; p. 368.
- Wilder Manufacturing Co., Inc., Brooklyn, N. Y. Luncheon outfit. No. 142,840; May 17; v. 286; p. 636.
- Wilder Mfg. Co. Inc., Brooklyn, N. Y. Luncheon outfit consisting of table and outer case, chairs, inner case containing metal food-container, &c. No. 146,912; Sept. 20; v. 290; p. 638.
- Wildes, Gerard M., New York, N. Y. Perfumes. No. 146,019; Aug. 28; v. 289; p. 790.
- Wildroot Co., Inc., Buffalo, N. Y. Shampoo. No. 150,178; Dec. 27.
- Wildstein, Morris, Philadelphia, Pa. Butter. No. 142,174; May 3; v. 286; p. 192.
- Wildstein, Morytz H., Rockaway Beach, N. Y. Bread, cake, and pastries. No. 144,977; July 19; v. 288; p. 624.
- Wile, Julius, Sons & Co., New York, N. Y. Elastic webbing. No. 150,179; Dec. 27.
- Wiley, Charlotte, Chicago, Ill. Deodorant or perspiration-powder. No. 139,251; Jan. 25; v. 282; p. 737.
- Wiley, Laura, New York, N. Y. Hair-grower. No. 149,291; Dec. 6.
- Wilhelm, Henry, Company, Pittsburgh, Pa. Louisiana moss, used principally for upholstering purposes. No. 149,626; Dec. 13.
- Willkins, H. P., Co., Chicago, Ill. Oleomargarin. No. 145,490; Aug. 2; v. 289; p. 182.
- Wilkins, Horace P., Chicago, Ill. Laxative tonic medicine. No. 148,772; Nov. 22.
- Wilkins-Rogers Milling Company, Washington, D. C. Wheat-flour. No. 141,017; Mar. 29; v. 284; p. 950.
- Wilkinson, C. A., Company, Providence, R. I. Frames, mountings, and parts of spectacles, eyeglasses, and lorgnettes. No. 144,297; June 28; v. 287; p. 777.
- Wilkinson, Leslie M. (See Johnson, Willie S., assignor.)
- Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. No. 147,745; Oct. 25.
- Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. No. 149,331; Dec. 6.
- Willadsen, Emil, Hanover township, Morris county, N. J. Canned cultured milk. No. 145,206; July 26; v. 288; p. 816.
- Willard Storage Battery Company, Cleveland, Ohio. Storage batteries and parts thereof. No. 144,497; July 5; v. 288; p. 196.
- Willenborg, Carl J., Jr., Hoboken, N. J. Talking-machines and parts thereof. No. 148,558; Nov. 15.
- Willhelm Oil Company, St. Paul, Minn. Lubricating oils and greases. No. 139,666; Feb. 8; v. 283; p. 355.
- William Edwards Company, The, Cleveland, Ohio. Olives, catsup, salad-dressing, chilli, mustard, &c. No. 144,753; July 19; v. 288; p. 617.
- William S. Merrell Company, The, Cincinnati Ohio. Pharmaceutical preparations. No. 139,166; Jan. 25; v. 282; p. 734.
- Williams, A. S., Atlanta, Ga. Liver medicine. No. 141,018; Mar. 29; v. 284; p. 950.
- Williams, C. S., Ellisville, Miss. Preparation for use in the treatment of pyorrhea. No. 146,020; Aug. 23; v. 289; p. 790.
- Williams Chocolate Co., Scranton, Pa. Candy. No. 142,841; May 17; v. 286; p. 636.
- Williams Company, The, London, Ohio. Steel-wool. No. 149,292; Dec. 6.
- Williams, D. T., Valve Company, Cincinnati, Ohio. Valves and cocks and metal pipe fittings. No. 142,907; May 17; v. 286; p. 643.
- Williams, Flora E., San Francisco, Calif. Hair-tonic. No. 145,867; Aug. 16; v. 289; p. 599.
- Williams, Frank B., deceased; M. E. Williams, S. L. Hanson, and P. C. Brown, executors, assignors to I. B. Williams and Sons, Dover, N. H. Rawhide side lace-leather. No. 145,207; July 26; v. 288; p. 816.
- Williams, G. B., Co., The, Quitman, Ga. Insecticides. No. 141,462; Apr. 19; v. 285; p. 569.
- Williams, George, Company, New York, N. Y. Certain named edgings, braids, tapes, beltings, and elastic. No. 139,432; Feb. 1; v. 282; p. 173.
- Williams, George B., Chicago, Ill. Magazines and periodicals published at monthly intervals. No. 142,350; May 10; v. 286; p. 406.



## Alphabetical list of registrants of trade-marks—Continued.

- Williams, Harry G., Los Angeles, Calif. Candies, chocolates, bonbons, and fudges. No. 143,778; June 7; v. 287; p. 188.
- Williams, I. B., and Sons. (See Williams, Frank B., assignor.)
- Williams, I. B., and Sons, Dover, N. H. Waterproof, flat, oak-tanned leather belting. No. 145,868; Aug. 16; v. 289; p. 599.
- Williams, J. B., Company, Glastonbury, Conn. Shaving-soap. No. 139,963; Feb. 22; v. 283; p. 764.
- Williams, J. B., Company, The, Glastonbury, Conn. Shaving-soap. No. 140,470; Mar. 15; v. 284; p. 584.
- Williams, J. B., Company, The, Glastonbury, Conn. Shaving-sticks. No. 142,396; May 10; v. 286; p. 411.
- Williams, J. B., Company, The, Glastonbury, Conn. Shaving-cream in the nature of soap, shaving-stick, and liquid soap for shampoo. No. 144,976; July 19; v. 288; p. 624.
- Williams, J. B., Company, The, Glastonbury, Conn. Toilet preparations. No. 146,913; Sept. 20; v. 290; p. 638.
- Williams, J. B., Company, Glastonbury, Conn. Talcum powder. No. 148,748; Nov. 22.
- Williams, John J., Brooklyn, N. Y. Corn remedy. No. 148,313; Nov. 8.
- Williams, L. B., Findlay, Ohio. Salve for eczema, ringworm, and skin-poison, &c. No. 142,175; May 3; v. 286; p. 192.
- Williams-Loper, Oshkosh, Wis. Automobile air and water filling post. No. 146,282; Sept. 6; v. 290; p. 201.
- Williams, Mary E., et al., executors. (See Williams, Frank B.)
- Williams, P. A., Atlanta, Ga. Reconstructive tonic. No. 145,869; Aug. 16; v. 289; p. 599.
- Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Separating machines, using air suction by which foreign matter is separated from certain materials. No. 140,471; Mar. 15; v. 284; p. 584.
- Williams-Richardson Company, Ltd., New Orleans, La. Cotton piece goods. No. 140,293; Dec. 6.
- Williams Sealing Corporation, The, Waterbury, Conn. Bottle-caps. No. 143,271; May 24; v. 286; p. 859.
- Williamson & Bright, Chuckey, Tenn. Laxative medicine. No. 149,807; Dec. 20.
- Williamson Electric Company, Brooklyn, N. Y. Flash-lights and parts thereof. No. 141,719; Apr. 26; v. 285; p. 784.
- Williamson Heater Company, The, Cincinnati, Ohio. Coal, gas, and wood furnaces. No. 145,870; Aug. 16; v. 289; p. 599.
- Williamson, Samuel B., Westport, Conn. Attachments and diaphragms for phonographs. No. 145,871; Aug. 16; v. 289; p. 599.
- Willis & Eckels, Chicago, Ill. Motion-picture films. No. 139,054; Jan. 18; v. 282; p. 556.
- Willis, Francis W., Kansas City, Mo. Rubber heels. Nos. 141,273-4; Apr. 12; v. 285; p. 385.
- Willits, Ledru C., Mount Pleasant, Iowa. Live stock. No. 144,498; July 5; v. 288; p. 196.
- Willmarth, Robert I., Jersey City, N. J. Tooth-paste. No. 149,294; Dec. 6.
- Wills, Annie J., Birmingham, Ala. Tonics and dressings for the hair and scalp. No. 144,088; June 21; v. 287; p. 583.
- Wills, C. H., & Company, Marysville, Mich. Automobiles. No. 149,748; Dec. 20.
- Wills Manufacturing Co., The, Scranton, Pa. Bitter stomach- tonic. No. 146,408; Sept. 6; v. 290; p. 204.
- Willson, Everard L., Milton, Mass. Washing compound for clothes, dishes, &c. No. 146,059; Aug. 23; v. 289; p. 795.
- Willson, Oliver C., Los Angeles, Calif. Non-alcoholic maltless beverage. No. 139,731; Feb. 15; v. 283; p. 541.
- Willys-Overland Company, The, Toledo, Ohio. Vehicle parts. No. 138,743; Jan. 4; v. 282; p. 190.
- Willys-Overland Company, The, Toledo, Ohio. Automobiles, automobile-trucks, trailers, whether of two or more wheels. No. 139,433; Feb. 1; v. 283; p. 173.
- Wilson, Bohannon, Inc., Brooklyn, N. Y. Locks. Nos. 144,175-6; June 28; v. 287; p. 773.
- Wilson, Edward W., New York, N. Y. Title of a blank publication. No. 143,840; June 7; v. 287; p. 194.
- Wilson, Eugene S., Houston, Tex. Cigars. No. 139,964; Feb. 22; v. 283; p. 764.
- Wilson, Eugene S., Houston, Tex. Cigars. No. 145,209; July 26; v. 288; p. 826.
- Wilson, Frederick S., Chicago, Ill. Liquid preparation for the reproduction and preservation of typewriter platens. No. 150,180; Dec. 27.
- Wilson, George C., Tyrone, Pa. Laxative pills. No. 142,176; May 3; v. 286; p. 192.
- Wilson, George C., Tyrone, Pa. Salve for the skin and mucous membrane. No. 143,224; May 24; v. 286; p. 853.
- Wilson, George C., Tyrone, Pa. Liniment. No. 143,225; May 24; v. 286; p. 853.
- Wilson, H. A., Company, The, Newark, N. J. Metal products. No. 142,177; May 3; v. 286; p. 192.
- Wilson, H. A., Company, The, Newark, N. J. Electrical appliances. No. 144,651; July 12; v. 288; p. 426.
- Wilson, H. A., Company, The, Newark, N. J. Certain rivets. No. 147,434; Oct. 11.
- Wilson Imperial Company, Newark, N. J. Preparation for cleaning all dirt and stains from varnished surfaces. No. 139,055; Jan. 18; v. 282; p. 556.
- Wilson, J. G., Corporation, Norfolk, Va. Louver or Venetian blinds. No. 141,818; Apr. 26; v. 286; p. 794.
- Wilson, J. G., Corporation, The, Norfolk, Va. Ready-mixed paints. No. 142,397; May 10; v. 286; p. 411.
- Wilson, J. G., Corporation, The. (See Folding Partition Company, The, assignors.)
- Wilson, John, Sacramento, Calif. Soft-soap cleanser. No. 150,181; Dec. 27.
- Wilson, John M., Meridian, Miss. Feed for horses, mules, &c. Nos. 142,351-2; May 10; v. 286; p. 406.
- Wilson, John M., Meridian, Miss. Feed for horses, mules, hogs, &c. No. 142,844; May 17; v. 286; p. 636.
- Wilson, M. J., Gosport, Ind. Writing-ink. No. 142,843; May 17; v. 286; p. 636.
- Wilson Rubber Company, The, Des Moines, Iowa. Repair shoes and patches for pneumatic tires. No. 138,744; Jan. 4; v. 282; p. 190.
- Wilson Rubber Company, The, Canton, Ohio. Rubber gloves. Nos. 145,021-3; July 19; v. 288; p. 630.
- Winchester Repeating Arms Company, New Haven, Conn. Firearms and ammunition and pyrotechnic supplies. No. 142,353; May 10; v. 286; p. 406.
- Winchester Repeating Arms Co., New Haven, Conn. Hatchets. No. 148,314; Nov. 8.
- Winchester Repeating Arms Co., New Haven, Conn. Ice and roller skates. No. 149,749; Dec. 20.
- Windsor Print Works, North Adams, Mass., and New York, N. Y. Plain white, dyed, or printed cotton dress and underwear piece goods. Nos. 139,434-5; Feb. 1; v. 283; p. 173.
- Windsor Print Works, North Adams, Mass., and New York, N. Y., assignor to Consolidated Textile Corporation, New York, N. Y. Plain, white, dyed, or printed cotton piece goods. No. 146,021; Aug. 23; v. 289; p. 790.
- Winebrenner, D. C., & Son, Inc., Frederick, Md. Coffee. No. 146,409; Sept. 6; v. 290; p. 204.
- Winebrenner, D. C., & Son, Inc., Frederick, Md. Coffee. No. 149,551; Dec. 13.
- Wing, L. J., Mfg. Co., New York, N. Y. Fans and exhausters. No. 140,472; Mar. 15; v. 284; p. 584.
- Wing, L. J., Mfg. Co., New York, N. Y. Fans and exhausters. No. 141,463; Apr. 19; v. 285; p. 569.
- Win-Her Washer Company, Des Moines, Iowa. Laundry-washing machines, wringers, and parts thereof. No. 142,845; May 17; v. 286; p. 636.
- Winne, D. P., Co., Incorporated, New York, N. Y. String, twine, cord, and vegetable-fiber rope. No. 142,846; May 17; v. 286; p. 636.
- Winner Mfg. Co., Rochester, N. Y. Heel-plates for rubber heels, and heel and toe plates for boots and shoes. No. 139,914; Feb. 22; v. 283; p. 756.
- Winorr Canning Company, The, Circleville, Ohio. Canned vegetables. No. 138,745; Jan. 4; v. 282; p. 190.
- Winox, Limited, Richmond, England. Medicated wine for use as a general tonic. No. 148,315; Nov. 8.
- Winstead Photo Finishing Company, Los Angeles, Calif. Photographic prints. No. 143,227; May 24; v. 286; p. 853.
- Winston, Sally F., Kansas City, Mo. Hair-grower, pressing-oil, &c. No. 138,746; Jan. 4; v. 282; p. 190.
- Winthrop Chemical Company Inc., New York, N. Y. Remedy for rheumatism and similar complaints. No. 142,178; May 3; v. 286; p. 192.
- Winthrop Chemical Company, Inc., New York, N. Y. Antiseptic powder. No. 145,872; Aug. 16; v. 289; p. 599.
- Winthrop Chemical Company, Inc., New York, N. Y. Antiseptic medical substance in powdered form. No. 145,873; Aug. 16; v. 289; p. 599.
- Winthrop Chemical Company, Inc., New York, N. Y. Soporific drug preparation containing carbon, hydrogen, and oxygen. No. 145,874; Aug. 16; v. 289; p. 599.
- Winthrop Chemical Company, Inc., New York, N. Y. Antigonorrheic and astringent medical substances. No. 146,022; Aug. 23; v. 289; p. 790.
- Winthrop Chemical Company, Inc., New York, N. Y. Preparations for certain diseases. No. 150,182; Dec. 27.
- Wippel, Elsie C., Cincinnati, Ohio. Certain toilet preparations. No. 148,316; Nov. 8.
- Wire Rope Appliance Company, The, Tulsa, Okla. Well-drilling tools and appliances. No. 141,019; Mar. 29; v. 284; p. 950.
- Wirth, Dorsey M., Bucyrus, Ohio. Garters. No. 139,436; Feb. 1; v. 283; p. 173.
- Wirthlin-Mann Co., The, Cincinnati, Ohio. Leather belting. No. 139,437; Feb. 1; v. 283; p. 173.
- Wisansky, Louis, New York, N. Y. Butter. No. 143,514; May 31; v. 286; p. 1054.
- Wisconsin Compounding Company, Milwaukee, Wis. Furniture and automobile polish. No. 149,552; Dec. 13.
- Wisconsin Butter & Cheese Co., The, Elkhorn, Wis. Compound milk. No. 148,749; Nov. 22.
- Wisconsin Honey Farm, Oconomowoc, Wis. Comb and extracted honey. No. 149,295; Dec. 6.
- Wisconsin Lumber Company, Chicago, Ill. Lumber and timber. No. 145,875; Aug. 16; v. 289; p. 599.
- Wisconsin Motor Manufacturing Co., West Allis, Wis. Truck, tractor, automobile, &c., motors. No. 146,526; Sept. 6; v. 290; p. 218.
- Wiseman, Fieldon W., St. Louis, Mo. Toilet creams, powders, and lotions, perfumes. No. 148,750; Nov. 22.
- Wisniewski, Michal, Great Meadows, N. J. Coloring-matter for perfumes and creams. No. 140,023; Mar. 1; v. 284; p. 174.



- Wire, A. A. Co. Inc., Newark, N. J. Rubber-covered wire for electrical purposes. No. 143,226; May 24; v. 286; p. 853.
- Wirt Company, Germantown, Pa. Electric heating-pads. No. 142,847; May 17; v. 286; p. 636.
- Witcomb, McGeachin & Co., New York, N. Y. Fabrics, printed. No. 139,943; Feb. 22; v. 283; p. 759.
- Witcombe, McGeachin & Co., New York, N. Y. Printed cretonnes and decorative fabrics in the piece. No. 143,270; May 24; v. 286; p. 859.
- Witman, Warren F., Philadelphia, Pa. Dry and ready-mixed paints. No. 150,183; Dec. 27.
- Witt, Charles F., Minneapolis, Minn. Coffee. Nos. 142,179-80; May 3; v. 286; p. 192.
- Witt, Charles F., Minneapolis, Minn. Coffee. No. 143,515; May 31; v. 286; p. 1054.
- Witt, Harry L., Pittsburgh, Pa. Chemical vermin-exterminator. No. 147,189; Oct. 4.
- Wittman, Joseph, New York, N. Y. Woven rugs. No. 148,317; Nov. 8.
- Wizard Foot Appliance Company, St. Louis, Mo. Certain corrective foot appliances. No. 149,553; Dec. 13.
- Wo, Dr. C. Gee, Portland, Oreg. Medicinal preparations for treatment of rheumatism, catarrh, &c. No. 145,367; Aug. 2; v. 289; p. 179.
- Wohl, M. J. & Co. Inc., New York and Long Island City, N. Y. Electric-arc lamps. No. 144,978; July 19; v. 288; p. 624.
- Wohlfarth & Koos Co., Inc., Newark, N. J. Furniture and house-furnishing goods, &c. No. 148,318; Nov. 8.
- Wolcott, Mervin M., Rushville, Ind. Medicinal preparation. No. 141,053; Mar. 29; v. 284; p. 954.
- Wolf, Charles A., Philadelphia, Pa. Certain liniment. No. 147,190; Oct. 4.
- Wolf River Sand Co., Memphis, Tenn. Sand and gravel. No. 146,527; Sept. 6; v. 290; p. 218.
- Wolfe-Farrer Co., Omaha, Nebr. Spirits of camphor. No. 150,184; Dec. 27.
- Wolferman, Fred, Co., Kansas City, Mo. Candles. No. 139,667; Feb. 8; v. 283; p. 355.
- Wolferman, Fred, Good Things to Eat Co., Kansas City, Mo. Coffee. No. 150,185; Dec. 27.
- Wolff, Geo., & Co., San Francisco, Calif. Olive-oil. No. 148,559; Nov. 15.
- Wolff, H., & Co., New York, N. Y. Imitation-pearl-bead necklaces. No. 144,979; July 19; v. 288; p. 624.
- Wolff, H., & Co., New York, N. Y. Beaded bags. No. 147,832; Nov. 1.
- Wolff, H., & Co., New York, N. Y. Scissors. No. 149,554; Dec. 13.
- Wolflinger Knitting Mills, Reading, Pa. Hosiery. No. 141,464; Apr. 19; v. 285; p. 569.
- Wolflinger Knitting Mills, Reading, Pa. Hosiery for men, women, and children. No. 148,560; Nov. 15.
- Wolfrom, Daniel D., San Francisco, Calif. Polish for automobiles, floors, wood and varnished surfaces. No. 149,555; Dec. 13.
- Wolfram, Emil, Columbus, Ohio. Medicinal preparation. No. 149,296; Dec. 6.
- Wolfson Company, The, Chicago, Ill. Jewelry. No. 142,848; May 17; v. 286; p. 636.
- Wolfson Company, The, Chicago, Ill. Belts for supporting wearing-apparel, &c. No. 144,154; June 21; v. 287; p. 591.
- Wolke Lead Batteries Co., The, Louisville, Ky. Storage batteries. No. 139,732; Feb. 15; v. 283; p. 541.
- Wolodarsky, Jacob N., New Haven, Conn. Dental cream. No. 147,191; Oct. 4.
- Wood, A. A., Sons & Company, Atlanta, Ga. Files. No. 145,300; July 26; v. 288; p. 826.
- Wood, Frederick C., London, England. Chemical substances and pharmaceutical preparations. No. 141,020; Mar. 29; v. 284; p. 950.
- Wood, Joseph L., Bessemer, Ala. Non-intoxicating, non-cereal, maltless fruit beverage. No. 139,668; Feb. 8; v. 283; p. 355.
- Wood Shovel & Tool Company, The, Piqua, Ohio. Shovels, spades, scoops and drainage-tools. No. 148,320; Nov. 8.
- Wood Turret Machine Co., Brazil, Ind. Turret-lathes and screw-machines. No. 145,301; July 26; v. 288; p. 826.
- Wood, W. B., Mfg. Co., St. Louis, Mo. Ice-cream. No. 138,747; Jan. 4; v. 282; p. 190.
- Woodhull, Goodale & Bull, Inc. Men's and young men's suits, trousers, and overcoats. No. 145,876; Aug. 16; v. 289; p. 600.
- Woodison, E. J., Co., Detroit, Mich. Plumbago and parting composition. No. 140,307; Mar. 8; v. 284; p. 374.
- Woodison, E. J., Co., The, Detroit, Mich. Liquid core compound. No. 142,354; May 10; v. 286; p. 406.
- Woodlands Limited, Dover, England. Flour-improvers comprising a harmless persulfate. No. 138,886; Jan. 11; v. 282; p. 378.
- Woodley, Alvin C., Binghamton, N. Y. Nerve-tonic. No. 150,186; Dec. 27.
- Woodruff, Thomas F., Columbus, Ga. Healing-oil. No. 141,275; Apr. 12; v. 285; p. 385.
- Woods & Chatellier Inc., New York, N. Y. Certain pocket-flasks. No. 148,319; Nov. 8.
- Woods, George O., Fargo, N. D. Table game. No. 149,556; Dec. 13.
- Woodward & Cochey, Inc., Lynn, Mass. Leather substitute, a manufactured or artificial leather. No. 142,181; May 3; v. 286; p. 192.
- Woodward & Cochey, Inc., Lynn, Mass. Leather substitute. No. 142,849; May 17; v. 286; p. 636.
- Woodward & Cochey, Inc., Lynn, Mass. Leather substitute. No. 147,720; Oct. 25.
- Woodward, Thad, Lincoln, Nebr. Remedy for catarrh. No. 138,748; Jan. 4; v. 282; p. 190.
- Woodwind Company, The, New York, N. Y. Mouthpieces for clarinets and saxophones. No. 141,819; Apr. 26; v. 285; p. 794.
- Woodwind Company, The, New York, N. Y. Mouthpieces and reeds for clarinets and saxophones. No. 144,980; July 19; v. 288; p. 624.
- Woodworth, Claudius C., Lodi, Calif. Fresh deciduous fruits. No. 144,499; July 5; v. 288; p. 196.
- Woolsey, C. A., Paint & Color Company, Jersey City, N. J. Paints and colors, paint-pigments, and varnishes. Nos. 148,627-8; Nov. 15.
- Woolson Spice Co., The, Toledo, Ohio. Coffee. No. 139,669; Feb. 8; v. 283; p. 355.
- Woolson Spice Co., The, Toledo, Ohio. Coffee. No. 149,557; Dec. 13.
- Woolston, Lee W., Newtonville, Mass. Insulated electric cables. No. 139,915; Feb. 22; v. 283; p. 756.
- Worcester Abrasive Company, Worcester, Mass. Grinding compound. No. 141,278; Apr. 12; v. 285; p. 385.
- Worcester Office Supplies Company, Incorporated, Worcester, Mass. Hand-stamps. No. 147,833; Nov. 1.
- Worcester Pressed Steel Company, Worcester, Mass. Hot and cold rolled strip-steel. No. 145,203; July 26; v. 288; p. 816.
- Worden, W. H., Co., San Francisco, Calif. Wire rope for general purposes. No. 150,187; Dec. 27.
- World Bottling Co. Ltd., New Orleans, La. Non-alcoholic non-cereal maltless beverages and syrups. No. 141,276; Apr. 12; v. 285; p. 385.
- World's Medicine Co., Indianapolis, Ind. Medicinal preparations. No. 141,277; Apr. 12; v. 285; p. 385.
- Worsham Company, The, Henderson, Ky. Eczema-lotion. No. 138,749; Jan. 4; v. 282; p. 190.
- Wortendyke Manufacturing Company, Richmond, Va. Paper bags. No. 140,246; Mar. 8; v. 284; p. 368.
- Wortendyke Manufacturing Company, Richmond, Va. Toilet-paper, paper napkins, and towels. No. 141,720; Apr. 26; v. 285; p. 784.
- Wortendyke Manufacturing Co., Richmond, Va. Toilet-paper, paper napkins and towels. No. 142,182; May 3; v. 286; p. 192.
- Wortendyke Manufacturing Co., Richmond, Va. Toilet-paper, paper napkins, and towels. No. 144,500; July 5; v. 288; p. 196.
- Wortendyke Manufacturing Co., Richmond, Va. Toilet-paper, paper napkins and towels. No. 149,332; Dec. 6.
- Worthington Ball Company, Elyria, Ohio. Golf-balls. No. 145,492; Aug. 2; v. 289; p. 182.
- Worumbo Manufacturing Company, Bath, Me. Woolen goods in the piece. No. 144,090; June 21; v. 287; p. 583.
- Worumbo Manufacturing Company, Bath, Me. Woolen goods in the piece. No. 149,297; Dec. 6.
- Woven Down Duster Company, Chicago, Ill. Dust-brushes. No. 149,558; Dec. 13.
- Woytko, Mike, New Britain, Conn. Medicinal salve for the feet. No. 142,183; May 3; v. 286; p. 192.
- Wrennick, Geo. W., St. Petersburg, Fla. Shoe polishes and dressing. No. 143,516; May 31; v. 286; p. 1054.
- Wrigley, Wm., Jr., Company, Chicago, Ill. Chewing-gum. No. 148,751; Nov. 22.
- Wrigley, Wm., Jr., Company, Chicago, Ill. Sugar-coated chewing-gum. No. 148,964; Nov. 29.
- Wright, Alfred, Inc., Philadelphia, Pa. Soap, (solid and liquid). No. 139,670; Feb. 8; v. 283; p. 355.
- Wright-Fisher Bushing Corporation, Detroit, Mich. Bushings for machine-tools, including jigs. No. 143,779; June 7; v. 287; p. 188.
- Wright, Ida C., Summit, N. J. Stencil fountain-brushes. No. 139,438; Feb. 1; v. 283; p. 173.
- Wright Roller Bearing Company, Philadelphia, Pa. Anti-friction-bearings and parts thereof. Nos. 139,232-3; Jan. 25; v. 282; p. 737.
- Wright, Rosa B., Washington, D. C. Polishes for automobiles, furnitures, floors, &c. No. 149,559; Dec. 13.
- Wright & Wright, Inc., Boston, Mass. Leather grips for golf-sticks, tennis-racket handles, and squash-racket handles. No. 146,916; Sept. 20; v. 290; p. 638.
- Wright's Indian Vegetable Pill Company, New York, N. Y. Vermifuge. Nos. 146,914-15; Sept. 20; v. 290; p. 638.
- Wrigley, Wm., Jr., Company, Chicago, Ill. Candy-coated chewing-gum. No. 143,228; May 24; v. 286; p. 853.
- Wrigley, Wm., Jr., Company, Chicago, Ill. Chewing-gum. No. 144,501; July 5; v. 288; p. 196.
- Wuest, Andrew A., Cincinnati, Ohio. Hosiery. No. 141,721; Apr. 26; v. 285; p. 784.
- Wuest & Schrader, Van Nuys, Calif. Storage batteries. No. 144,652; July 12; v. 288; p. 426.
- Wyatt, S. E., Birmingham, Ala. Toilet preparations. No. 139,916; Feb. 22; v. 283; p. 756.
- Wyeth, George A., New York, N. Y. Bottle-openers and bottle-cap removers. No. 145,210; July 26; v. 288; p. 817.
- Wyeth, John, & Brothers, Incorporated, Philadelphia, Pa. Medicinal tablets for headaches, influenza, asthma, &c. No. 145,877; Aug. 16; v. 289; p. 600.
- Wyman Partridge & Co., Minneapolis, Minn. Clothing. No. 141,820; Apr. 26; v. 285; p. 794.



*Alphabetical list of registrants of trade-marks—Continued.*

- Wyman, Partridge & Co., Minneapolis, Minn. Silkolene, sateen, cretonne, scrim, &c. No. 144,091; June 21; v. 287; p. 583.
- Wyman Partridge & Co., Minneapolis, Minn. Linen crash. No. 146,410; Sept. 6; v. 290; p. 204.
- Wyman, Partridge & Co., Minneapolis, Minn. Cotton piece goods. No. 147,721; Oct. 25.
- Wyman, Partridge & Co., Minneapolis, Minn. Woolen blankets. No. 147,222; Oct. 25.
- Wyman, Partridge & Co., Minneapolis, Minn. Cotton piece goods. No. 148,561; Nov. 15.
- Wynne, Oliver, Norfolk, Va. Lard substitute. No. 145,210; July 26; v. 288; p. 817.
- Wynne, Oliver, Norfolk, Va. Lard substitute composed of cotton-seed oil and other ingredients. No. 145,213; July 26; v. 288; p. 817.
- Wynne, Oliver, Norfolk, Va. Lard substitutes composed of cotton-seed oil and other ingredients. No. 148,773; Nov. 22.
- Wyoming Shovel Works, The, Wyoming, Pa. Shovels, spades, scoops, mattocks, and picks. No. 138,887; Jan. 11; v. 282; p. 378.
- Wyoming Shovel Works, The, Wyoming, Pa. Mattocks and picks. No. 139,671; Feb. 8; v. 283; p. 355.
- Yale Piston Ring Co., New York, N. Y. Piston-rings. No. 139,471; Feb. 1; v. 283; p. 177.
- Yale & Towne Mfg. Co., The, Stamford, Conn. Hardware. No. 139,056; Jan. 18; v. 282; p. 556.
- Yale & Towne Mfg. Co., The, Stamford, Conn. Hardware. No. 140,473; Mar. 15; v. 284; p. 584.
- Yale & Towne Mfg. Co., The, Stamford, Conn. Carbureters. Nos. 140,474-6; Mar. 15; v. 284; p. 584.
- Yale & Towne Mfg. Co., The, Stamford, Conn. Fasteners, locks, and parts thereof, fasteners, &c. No. 142,850; May 17; v. 286; p. 636.
- Yamaguchi, Hidetaro, Arlington, N. J. Candy and cake. No. 146,018; Aug. 23; v. 289; p. 790.
- Yamamoto, Yukinolu, St. Louis, Mo. Cooking and table sauces. No. 141,022; Mar. 29; v. 284; p. 950.
- Yancey, George F., New York, N. Y. Typewriter-ribbons and carbon-paper. Nos. 142,184-5; May 3; v. 286; p. 192.
- Yancey, George T., New York, N. Y. Typewriter-ribbons and carbon-paper. No. 144,503; July 5; v. 288; p. 196.
- Yangtze Corporation, New York, N. Y. Tea. No. 144,981; July 19; v. 288; p. 624.
- Yarn Novelty Co., New York, N. Y. Yarn. No. 143,229; May 24; v. 286; p. 853.
- Yasuhara, Kinzo, Los Angeles, Calif. Sauce. (food relishes.) No. 141,021; Mar. 29; v. 284; p. 950.
- Yates, John, & Co. Ltd., Birmingham, England. Spades, shovels, hoes, wedges, and ship-scrapers. No. 146,917; Sept. 20; v. 290; p. 639.
- Yelle, Adolphe, Hull, Quebec, Canada. Canoe, rowboats, yachts, &c. No. 141,722; Apr. 26; v. 285; p. 784.
- Yellow Cab Manufacturing Co., Chicago, Ill. Automobiles. No. 146,411; Sept. 6; v. 290; p. 204.
- Ye Olden Times Co., New York, N. Y. Malt extracts. No. 146,918; Sept. 20; v. 290; p. 639.
- Yeomanette Company, The, New York, N. Y. Hair-nets. No. 149,560; Dec. 13.
- Yocum, John H., Newark, N. J. Synthetic tannin. No. 143,230; May 24; v. 286; p. 853.
- York Drug Store, York, S. C. Certain medicinal preparation. No. 150,188; Dec. 27.
- York Heating and Ventilating Corporation, Philadelphia, Pa. Dust collectors and separators, hoods, fans, and blowers. No. 149,627; Dec. 13.
- York Mfg. Co., Saco, Me., and Boston, Mass. Gingham in the piece. No. 149,299; Dec. 6.
- Yorkshire Knitting Co. Inc., New York, N. Y. Clothing. No. 147,891; Nov. 1.
- Young, Chas. W. & Co., Philadelphia, Pa. Compound for rendering leather soft, flexible, and pliable. No. 148,321; Nov. 8.
- Young, Frederick H., Toledo, Ohio. Toilet cream. No. 149,628; Dec. 13.
- Young & Griffin Coffee Co. Inc., New York, N. Y. Roasted coffee. No. 149,750; Dec. 20.
- Young Smyth Field Company, Philadelphia, Pa. Dyes. No. 139,057; Jan. 18; v. 282; p. 556.
- Young, W. F., Inc., Springfield, Mass. Antiseptics and liniments. No. 139,917; Feb. 22; v. 283; p. 756.
- Young & Wile, Ltd., New York, N. Y. Rum, brandy, and ethyl alcohol. No. 140,247; Mar. 8; v. 284; p. 368.
- Youngusband, James L., Chicago, Ill. Eyebrow-dressing. No. 144,299; June 28; v. 287; p. 777.
- Youngeken, Eugene W., Philadelphia, Pa. Liver-pills. No. 141,279; Apr. 12; v. 285; p. 385.
- Youngstown Boiler & Tank Co., The, Youngstown, Ohio. Tanks. No. 147,528; Oct. 18.
- Youngstown Pressed Steel Company, The, Youngstown, Ohio. Metal lath. No. 138,750; Jan. 4; v. 282; p. 190.
- Youngstown Pressed Steel Company, The, Youngstown, Ohio. Metal lath, expanded metal, &c. No. 139,107; Jan. 18; v. 282; p. 561.
- Youngstown Pressed Steel Company, The, Youngstown, Ohio. Metal lath. No. 139,108; Jan. 18; v. 282; p. 561.
- Youngstown Pressed Steel Company, Youngstown, Ohio. Metal channel and angle irons, corner-beads, and metal laths. No. 139,747; Feb. 15; v. 283; p. 544.
- Youngstown Sheet & Tube Company, The, Youngstown, Ohio. Iron and steel pipe and pipe-couplings. No. 148,629; Nov. 15.
- Yuengling, D. G., & Son, Inc., Pottsville, Pa. Non-intoxicating cereal malt beverage. No. 150,189; Dec. 27.
- Yukon Mill & Grain Co., Yukon, Okla. Pearl hominy, pancake flour, breakfast food, &c. No. 142,908; May 17; v. 286; p. 643.
- Yvette Co., New York, N. Y. Hair-tonics. No. 146,412; Sept. 6; v. 290; p. 204.
- Z. and S. Middy Co., New York, N. Y. Middy-blouses. No. 146,297; Sept. 6; v. 290; p. 201.
- Zachary, Isaiah C., Wichita, Kans. Polish for automobile-bodies. No. 145,493; Aug. 2; v. 289; p. 182.
- Zalis, Samuel, Baltimore, Md. Articles of clothing. No. 142,399; May 10; v. 286; p. 411.
- Zalis, Samuel, Baltimore, Md. Work, dress, and negligée shirts. No. 146,919; Sept. 20; v. 290; p. 639.
- Zaloom, S. F. & Co., New York, N. Y. Salted pistachionuts. No. 146,920; Sept. 20; v. 290; p. 639.
- Zamborsky, Joseph J., Dr., Greensburg, Pa. Face-powder. No. 144,092; June 21; v. 287; p. 583.
- Zampini Solferino, New York, N. Y. Preparation for the scalp and hair. No. 140,248; Mar. 8; v. 284; p. 368.
- Zanora Company, The, New York, N. Y. Hair- tonic. No. 139,058; Jan. 18; v. 282; p. 556.
- Zatox Products Co., Belpre, Ohio. Medicine for treating gall-stones, constipation, &c. No. 140,249; Mar. 8; v. 284; p. 368.
- Zauder Bros., Inc., New York, N. Y. Hair-coloring. No. 138,888; Jan. 11; v. 282; p. 378.
- Zechnowitz, Samuel, New York, N. Y. Tea. No. 146,413; Sept. 6; v. 290; p. 204.
- Zechnowitz, Samuel, New York, N. Y. Tea. No. 146,921; Sept. 20; v. 290; p. 639.
- Zeigler, H. M., & Son, Battle Creek, Mich. Automobile, piano, and furniture polish. No. 146,922; Sept. 20; v. 290; p. 639.
- Zeitell & Zuckerbraun, New York, N. Y. Hosiery. No. 148,563; Nov. 15.
- Zell-Straub Laboratories, Chicago, Ill. Antiseptic and bactericidal agent for use in both human and veterinary fields. No. 138,751; Jan. 4; v. 282; p. 190.
- Zenith Mfg. Co., Atlanta, Ga. Preparation for the treatment of kinky hair. No. 145,878; Aug. 16; v. 289; p. 600.
- Zerbst Pharmaceutical Co., St. Joseph, Mo. Medicinal preparation. No. 143,517; May 31; v. 286; p. 1054.
- Zerbst Pharmaceutical Co., St. Joseph, Mo. Remedy for la grippe and colds. No. 145,532; Aug. 2; v. 289; p. 187.
- Zest Chocolate Co., Boston, Mass. Chocolates and candies. No. 141,023; Mar. 29; v. 284; p. 950.
- Zetzsche, John H., New York, N. Y. Mayonnaise. No. 145,879; Aug. 16; v. 289; p. 600.
- Ziegler, A., & Sons Company, Roxbury, Mass. Suspenders, garters, men's belts and armbands. No. 148,752; Nov. 22.
- Ziegler, J. S., Company, (now by change of name Dwight B. McCurdy Company,) Chicago, Ill. Egg substitute in cooking and baking. No. 148,562; Nov. 15.
- Zielinski, Mary, Cicero, Ill. Antiseptic healing-salve. No. 145,880; Aug. 16; v. 289; p. 600.
- Zim Products Co., New York and Brooklyn, N. Y. Pastes, including library, office, and factory paste, mucilage, and glue. No. 148,322; Nov. 8.
- Zimetbaum, I., New York, N. Y. Ladies' dresses, suits, coats, &c. No. 141,280; Apr. 12; v. 285; p. 385.
- Zingale, Joseph T., Brooklyn, N. Y. Candy laxative. No. 144,504; July 5; v. 288; p. 196.
- Zinsmaster Baking Company, St. Paul, Minn. Bread. No. 143,231; May 24; v. 286; p. 853.
- Zipern & Robins, Brooklyn, N. Y. General tonics. No. 144,300; June 28; v. 287; p. 777.
- Zipperer, Christen E., Statenville, Ga. Salve for cuts, bruises, sore throat, fever-blisters. No. 144,653; July 12; v. 288; p. 426.
- Zittel, Adam, Long Island City, N. Y. M. Zittel, administratrix. Salad-dressing. No. 141,281; Apr. 12; v. 285; p. 385.
- Zittel, Margaret, administratrix. (See Zittel, Adam.)
- Zobel, Myron, Los Angeles, Calif. The title of a magazine published and sold monthly. No. 148,564; Nov. 15.
- Zuckerman, Herman, Los Angeles, Calif. Remnant-tags used for tagging remnants of all kinds. No. 145,214; July 26; v. 288; p. 817.
- Zuercher, Chas., Brodhead, Wis. Cheese. No. 150,190; Dec. 27.
- Zürcher, Niederer & Co., St. Gall, Switzerland. Cotton piece goods for women's dress purposes. No. 147,192; Oct. 4.
- Zwiebelson, Abraham, New York, N. Y. Brassières and corsets. No. 146,528; Sept. 6; v. 290; p. 218.



# ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

- A. C. Kynos & Company, Inc., New York, N. Y. "Actor's Club." (For Coffee.) No. 22,524; Feb. 1; v. 283; p. 179.
- Abraham, A. G., Company, Moline, Ill. "Deltanut." (For Candy—Namely, Nut-Candy.) No. 22,943; May 31; v. 286; p. 1057.
- Acme Broom Company, Chicago, Ill. "Handi-Hanger Broom." (For Brooms and Whisk-Brooms.) No. 23,120; July 26; v. 288; p. 827.
- Aims, Wm. D. P., Philadelphia, Pa. "Iridio." (For Medicinal Proprietary Preparation.) No. 23,652; Nov. 22.
- Ainsa, M. & Sons, Inc., El Paso, Tex. "Pan-Ola." (For Wheat-Flour.) No. 23,836; Dec. 27.
- Alamo Packing Company, Los Angeles, Calif. "Alamo Brand." (For Cantaloups.) No. 22,790; Mar. 29; v. 284; p. 955.
- Alamo Packing Company, Los Angeles, Calif. "Alamo Brand." (For Cantaloups.) No. 23,653; Nov. 22.
- Alco Co., The, Hickory, Pa. "Alco Auto Polish." (For Automobile Polish.) No. 22,893; May 24; v. 286; p. 860.
- Alexander, Peter C., New York, N. Y. "Two Bulldogs, Splendor Mills, and a Descriptive Paragraph in English and Seven Foreign Languages." (For Sheetings and Drills.) No. 23,584; Nov. 1.
- All Saints Cigar Co., Tampa, Fla. "All Saints." (For Cigars.) Nos. 23,440-1; Oct. 18.
- Allen A Company, The, Kenosha, Wis. "Allen A Spring Needle Underwear." (For Underwear.) No. 23,615; Nov. 8.
- Allen A Company, The, Kenosha, Wis. "Allen A Summerwear." (For Underwear.) No. 23,616; Nov. 8.
- Allen A Company, The, Kenosha, Wis. "Allen A Hosiery." (For Hosiery.) No. 23,617; Nov. 8.
- Allen Auto Specialty Co., The, New York, N. Y. "Allen Tire Case." (For Cases for Automobile-Tires.) Nos. 23,172-5; Aug. 23; v. 289; p. 796.
- Allen Auto Specialty Co., The, New York, N. Y. "Allen Tire Case." (For Cases for Automobile-Tires.) Nos. 23,252-5; Aug. 30; v. 289; p. 1019.
- Allen Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
- Alperin, B., Red Bank, N. J. "Our National Mayonnaise." (For Mayonnaise.) No. 23,508; Oct. 25.
- Ambrosia Chocolate Cream Co., Chicago, Ill. "Ambrosia Milk Chocolates." (For Boxes of Candy.) No. 23,442; Oct. 18.
- Amend, Fred W., Co., Chicago, Ill. "Marshmallow Cream Corn." (For Confectionery-Containers.) No. 23,256; Aug. 30; v. 289; p. 1019.
- Amend, Fred W., Co., Chicago, Ill. "Marshmallow Cream Bananas." (For Confectionery-Containers.) No. 23,509; Oct. 25.
- American Fastener Co., Waterbury, Conn. "Teneo." (For Snap-Fasteners.) No. 23,052; July 5; v. 288; p. 201.
- American Grocers Society, Inc., Newark, N. J. "A. G. S." (For Coffee.) No. 22,944; May 31; v. 286; p. 1057.
- American Grocers Society, Inc., Newark, N. J. "Khels." (For Liver-Pills.) No. 23,176; Aug. 23; v. 289; p. 796.
- American Hosiery Company, New Britain, Conn. "Amho Heath Jacket." (For Heath Jackets, Garments for Sportsmen.) No. 23,053; July 5; v. 288; p. 201.
- American Javanese Products Co., Chicago, Ill. "Zecha Finest Java Tea." (For Tea.) No. 22,716; Mar. 22; v. 284; p. 753.
- American Marshmallow and Candy Company, Chicago, Ill. "A. B. C." (For Packages and Cartons Containing Marshmallow Creme.) No. 23,654; Nov. 22.
- American Stove Company, St. Louis, Mo. "Lorain." (For an Appliance or Attachment for Gas-Stoves.) No. 23,837; Dec. 27.
- American Sugar Products Corporation, Los Angeles, Calif. "Silverkist Syrup." (For Containers for Table-Syrup.) No. 23,443; Oct. 18.
- American Sugar Products Corporation, Los Angeles, Calif. "Jack Frost Syrup." (For Containers for Table-Syrup.) No. 23,444; Oct. 18.
- American Wire Fabrics Company, Chicago, Ill. "Screen Wire Cloth." (For Screen Wire-Cloth.) No. 23,257; Aug. 30; v. 289; p. 1019.
- American Wire Fabrics Company, Chicago, Ill. "American Brand." (For Screen Wire-Cloth.) No. 23,258; Aug. 30; v. 289; p. 1019.
- Andee, Harry, Cleveland, Ohio. "Andee's Bed Bug and Roach Killer." (For Insecticides.) No. 22,945; May 31; v. 286; p. 1057.
- Andersen, Knute, Wausaukee, Wis. "State Highway." (For Cigar-Boxes for Cigars.) No. 23,719; Dec. 13.
- Anheuser-Busch, Incorporated, St. Louis, Mo. "Buschtee." (For Carbonated Tea Beverage.) No. 23,259; Aug. 30; v. 289; p. 1019.
- Anheuser-Busch, Incorporated, St. Louis, Mo. "Kaffo." (For Carbonated Coffee Beverage.) No. 23,260; Aug. 30; v. 289; p. 1019.
- Anko Products Co., New York, N. Y. "Anko Jelly-Roll." (For Confections—Namely, Jelly-Rolls.) No. 22,611; Mar. 8; v. 284; p. 375.
- Apco Asphalt Roofing Co., Inc., New York, N. Y. "Insured Roofing." (For Asphalt Roofing.) No. 22,452; Feb. 1; v. 283; p. 178.
- Apex Paper Manufacturing Company, Inc., New Orleans, La. "Camel Brand." (For Toilet-Paper.) No. 23,787; Dec. 20.
- Apex Paper Manufacturing Company, Inc., New Orleans, La. "Superior Service." (For Paper Toweling.) No. 23,788; Dec. 20.
- Apex Paper Manufacturing Company, Inc., New Orleans, La. "Lion Brand." (For Toilet-Paper.) No. 23,789; Dec. 20.
- Apex Paper Manufacturing Company, Inc., New Orleans, La. "Keno." (For Toilet-Paper.) No. 23,790; Dec. 20.
- Appelbee & Neuman, Inc., New York, N. Y. "Rivet Shank Buttons." (For Buttons.) No. 23,510; Oct. 25.
- Armour and Company, Chicago, Ill. "None Better Naphtha Borax Soap." (For Naphtha Borax Soap.) No. 22,612; Mar. 8; v. 284; p. 375.
- Arnold, Shirley E., Berwyn, Ill. "Fondant." (For Fondant.) No. 22,717. Mar. 22; v. 284; p. 753.
- Arrow Manufacturing Co., Baltimore, Md. "Budd-Wise Brand." (For Compound for Making Home Beverage.) No. 22,600; Mar. 1; v. 284; p. 180.
- Associated Oil Company, San Francisco, Calif. "Cycol." (For Lubricants.) No. 22,453; Feb. 1; v. 283; p. 178.
- Atlanta Barbers' Supply Co., Atlanta, Ga. "Abasco Coconut Oil." (For Coconut-Oil Shampoo.) No. 23,177; Aug. 23; v. 289; p. 796.
- Atwater Fruit Exchange, Atwater, Calif. "At-Water." (For Fresh Fruits.) No. 23,025; June 28; v. 287; p. 783.
- Auerbach, D., & Sons, New York, N. Y. "Auerbach." (For Chocolate Candy.) No. 22,946; May 31; v. 286; p. 1057.
- Auerbach & Sons, The, New York, N. Y. "Auerbach Animal Blocks." (For Sweet-Milk-Chocolate Blocks.) No. 22,894; May 24; v. 286; p. 860.
- Aunt Jemima Mills Company, St. Joseph, Mo. "Aunt Jemima Company Cake." (For Cake-Flour.) No. 22,527; Feb. 8; v. 283; p. 361.
- Ayer, Harriet Hubbard, New York, N. Y. "Liquid Nail Polish." (For Enamel for the Nails.) No. 23,178; Aug. 23; v. 289; p. 796.
- Ayer, Harriet Hubbard, New York, N. Y. "Face Cream." (For Preparations for Beautifying the Skin.) No. 23,179; Aug. 23; v. 289; p. 796.
- Ayer, Harriet Hubbard, New York, N. Y. "Bandoline." (For Preparations for Keeping the Hair in Wave or Curl.) No. 23,180; Aug. 23; v. 289; p. 796.
- Ayer, Harriet Hubbard, New York, N. Y. "Eye Lash and Brow Grower." (For a Preparation for Stimulating the Growth of the Eye Lashes and Brows.) No. 23,181; Aug. 23; v. 289; p. 796.
- Ayer, Harriet Hubbard, New York, N. Y. "Pure Tar Soap Shampoo." (For Preparations for Cleaning the Hair.) No. 23,182; Aug. 23; v. 289; p. 796.
- Ayer, Harriet Hubbard, New York, N. Y. "Eyebrow Pencils." (For Preparations for Coloring the Eyebrows.) No. 23,183; Aug. 23; v. 289; p. 796.
- Ayer, Harriet Hubbard, New York, N. Y. "Bath Salts." (For Preparations for Softening Bath-Water.) No. 23,184; Aug. 23; v. 289; p. 796.
- Ayer, Harriet Hubbard, New York, N. Y. "La Belle Coquette." (For Pomade.) No. 23,185; Aug. 23; v. 289; p. 796.
- Ayer, Harriet Hubbard, New York, N. Y. "Gardenia Soap." (For Toilet Soap.) No. 23,186; Aug. 23; v. 289; p. 796.
- Ayer, Harriet Hubbard, New York, N. Y. "Depilatory." (For a Preparation for Removing Hair.) No. 23,187; Aug. 23; v. 289; p. 796.
- Ayer, Harriet Hubbard, New York, N. Y. "Violette Petales." (For Talcum Powder.) No. 23,261; Aug. 30; v. 289; p. 1019.
- Ayer, Harriet Hubbard, New York, N. Y. "Depilatory." (For Preparation for Removing Hair.) No. 23,262; Aug. 30; v. 289; p. 1019.
- Ayer, Harriet Hubbard, New York, N. Y. "Scalpinol." (For Hair Tonic and Invigorant.) No. 23,263; Aug. 30; v. 289; p. 1019.
- Ayer, Harriet Hubbard, New York, N. Y. "Wrinkle Eradicator." (For Preparation for Removing Wrinkles from the Skin.) No. 23,264; Aug. 30; v. 289; p. 1019.
- Ayer, Harriet Hubbard, New York, N. Y. "Red Rose." (For Talcum Powder.) No. 23,265; Aug. 30; v. 289; p. 1019.
- Ayer, Harriet Hubbard, New York, N. Y. "Pure Bland Soap." (For Toilet Soap.) No. 23,266; Aug. 30; v. 289; p. 1019.



## Alphabetical list of registrants of labels—Continued.

- Ayer, Harriet Hubbard, New York, N. Y. "Hand Lotion." (For Lotion for Hands.) No. 23,267; Aug. 30; v. 289; p. 1019.
- Ayer, Harriet Hubbard, New York, N. Y. "Old English Lavender Shampoo." (For Preparation for Cleaning the Hair.) No. 23,268; Aug. 30; v. 289; p. 1019.
- Ayer, Harriet Hubbard, New York, N. Y. "Skin and Tissue Builder." (For Preparations for the Skin and Tissues and Massage-Cream.) No. 23,269; Aug. 30; v. 289; p. 1019.
- Ayer, Harriet Hubbard, New York, N. Y. "Skin Whitener." (For a Preparation for Whitening the Skin.) No. 23,270; Aug. 30; v. 289; p. 1019.
- Ayer, Harriet Hubbard, New York, N. Y. "Deodorizer." (For Preparations for Destroying Odor of Perspiration.) No. 23,271; Aug. 30; v. 289; p. 1019.
- Ayer, Harriet Hubbard, New York, N. Y. "Luxuria." (For a Cosmetic Marvel Superior to Cold-Cream.) Nos. 23,335-6; Sept. 6; v. 290; p. 223.
- Ayer, Harriet Hubbard, New York, N. Y. "The Ayeristocrat (of All)." (For Finishing Vanishing Non-Greasy Cream.) No. 23,337; Sept. 6; v. 290; p. 223.
- Ayer, Harriet Hubbard, New York, N. Y. "Snowdrift." (For Preparations for Increasing the Brilliance and Removing the Yellowness from White or Gray Hair.) No. 23,338; Sept. 6; v. 290; p. 223.
- Ayer, Harriet Hubbard, New York, N. Y. "Lotion de Fraises (Strawberry Lotion)." (For Invigorant for the Skin.) No. 23,339; Sept. 6; v. 290; p. 223.
- Ayer, Harriet Hubbard, New York, N. Y. "Bath Salts." (For Preparations for Perfuming and Softening Bath-Water.) No. 23,340; Sept. 6; v. 290; p. 223.
- B. Heller & Co., Chicago, Ill. "Heller's Golden Gloss Shine." (For Containers Holding Heller's Golden Gloss Shine, a Metal-Polish.) No. 23,164; Aug. 9; v. 289; p. 409.
- B. Heller & Co., Chicago, Ill. "Orange-Zest." (For Containers Holding Orange-Zest, an Orange Flavoring Compound.) No. 23,165; Aug. 9; v. 289; p. 409.
- B. Heller & Co., Chicago, Ill. "Tanaline." (For Receptacles Containing Tanaline, a Preparation for Tanning Animal Skins.) No. 23,166; Aug. 9; v. 289; p. 409.
- B. Heller & Co., Chicago, Ill. "Ozo Waste Pipe Opener." (For Receptacles Containing Ozo Waste-Pipe Opener, a Preparation for Opening Stopped-Up Pipes.) No. 23,167; Aug. 9; v. 289; p. 409.
- B. & T. Engineering and Sales Co., New York, N. Y. "16." (For Cards for a Game.) No. 23,189; Aug. 23; v. 289; p. 796.
- Babbitt, B. T., Incorporated, New York, N. Y. "Babbitt's White Naphtha." (For White Naphtha Soap.) No. 22,613; Mar. 8; v. 284; p. 375.
- Bachman Chocolate Manufacturing Co., Mount Joy, Pa. "The Finest Chocolate in the World." (For Chocolate of Every Description.) No. 22,718; Mar. 22; v. 284; p. 753.
- Baker, J. Harve, Portales, N. Mex. "Baker's Leather Oil." (For Oils for Softening and Preserving All Kinds of Leather.) No. 22,791; Mar. 29; v. 284; p. 955.
- Bakrow, Richard D., & Son, Louisville, Ky. "All Star Assortment." (For Packages Containing Toy Balloons.) Nos. 22,992-3; June 14; v. 287; p. 403.
- Baltimore Butterine Co., The, Baltimore, Md. "Gold Bond." (For Oleomargarin.) No. 22,528; Feb. 8; v. 283; p. 361.
- Baltimore Butterine Co., The, Baltimore, Md. "Tint-O." (For Oleomargarin.) No. 22,529; Feb. 8; v. 283; p. 361.
- Baltimore Butterine Co., Baltimore, Md. "Maryland Pride." (For Oleomargarin.) No. 23,188; Aug. 23; v. 289; p. 796.
- Barbanell, Fabian, Los Angeles, Calif. "Barbanell Face Powder." (For Face-Powder.) No. 23,520; Oct. 25.
- Barbero Toler Cigar Company, Metropolis, Ill. "McDonald's Havana Seed Binder." (For Cigars.) No. 22,530; Feb. 8; v. 283; p. 361.
- Barcalo Manufacturing Company, Buffalo, N. Y. "Barcalo Matt-Rest." (For Mattresses.) No. 23,838; Dec. 27.
- Bardos, Coleman, Jr., New York, N. Y. "Liquor Adrenalin Hydrochloric." (For a Remedy for Overcoming Local Congestions, to Check Local Hemorrhages, as a General Circulatory Stimulant, and for the Relief of Asthmatic Paroxysms.) No. 23,521; Oct. 25.
- Bardos, Coleman, Jr., New York, N. Y. "Gal-Io-Ben." (For an Antiseptic and Astringent Remedy.) No. 23,839; Dec. 27.
- Barke-Gibbon Company, Inc., Philadelphia, Pa. "The 'Gibbon' Shoe." (For Women's and Misses' Shoes and upon the Cartons Containing Same.) No. 22,614; Mar. 8; v. 284; p. 375.
- Barnet Leather Co. Inc., New York, N. Y. "Van Ruba Calif." (For Calf-Leather.) No. 23,445; Oct. 18.
- Barnet Leather Co. Inc., New York, N. Y. "Okay." (For Calf-Leather.) No. 23,655; Nov. 22.
- Barnet Leather Co. Inc., New York, N. Y. "Melan." (For Calf-Leather.) No. 23,656; Nov. 22.
- Barnet Leather Co. Inc., New York, N. Y. "Chic." (For Calf-Leather.) No. 23,657; Nov. 22.
- Barr, Morris A., Valley Forge, Pa. "Pure Spring Water from Valley Forge Springs." (For Spring-Water.) No. 22,719; Mar. 22; v. 284; p. 753.
- Bartholomay Co., Inc. (See Menasha Printing and Carton Company, assignor.)
- Baruch Corp., Milwaukee, Wis., and Chicago, Ill. "This Cz-Ons." (For Food Products.) No. 22,454; Feb. 1; v. 283; p. 178.
- Basford Cigar Company, Maryville, Mo. "El Retina." (For Cigars.) No. 22,888; Jan. 18; v. 282; p. 563.
- Battelle & Renwick, Inc., New York, N. Y. "Niagara Brand Saltpetre." (For Saltpetre or Potassium Nitrate.) No. 22,792; Mar. 29; v. 284; p. 955.
- Battelle & Renwick, Inc., New York, N. Y. "Niagara Brand Nitrate of Soda." (For Nitrate of Soda.) No. 22,793; Mar. 29; v. 284; p. 955.
- Battelle & Renwick, Inc., New York, N. Y. "Brooklyn Brand Flour Sulphur." (For Flour Sulfur.) No. 22,794; Mar. 29; v. 284; p. 955.
- Bauer & Black, Chicago, Ill. "The Tiny Tot Soap." (For Soap.) No. 23,791; Dec. 20.
- Bauer & Black, Chicago, Ill. "B & B Baby Talc." (For Talcum Powder.) No. 23,840; Dec. 27.
- Bayer Company, Inc., The, Rensselaer and New York, N. Y. "Aspirina y Cafeina." (For Cartons Containing Aspirin Tablets or Bottles Containing the Same.) No. 22,567; Feb. 15; v. 283; p. 549.
- Bayer Company, Inc., The, Rensselaer and New York, N. Y. "Instantana." (For a Medicinal Preparation for the Treatment of Rheumatism, Lumbago, &c.) No. 22,568; Feb. 15; v. 283; p. 549.
- Bayer Company, Inc., The, Rensselaer and New York, N. Y. "Aspirina." (For Cartons Inclosing Aspirin Tablets or Bottles Containing the Same.) No. 22,569; Feb. 15; v. 283; p. 549.
- Bayer Company, Inc., The, Rensselaer and New York, N. Y. "Aspirina y Fenacetina." (For Cartons Containing Aspirin Tablets or Bottles Containing the Same.) No. 22,570; Feb. 15; v. 283; p. 549.
- Beach, H. D., Co., The, Coshocton, Ohio. "Ward's Cake." (For Cake.) No. 23,054; July 5; v. 288; p. 201.
- Bebe Company, San Francisco, Calif. "California Wine Grape Juice." (For Packages and Bottles of Grape-Juice.) No. 22,615; Mar. 8; v. 284; p. 375.
- Beech-Nut Packing Company, Canajoharie, N. Y. "Orange Drops." (For Candies.) No. 22,531; Feb. 8; v. 283; p. 361.
- Beckman Company, The, Cleveland, Ohio. "Northern Ohio Woolware." (For Use Upon Wool Robes and Wool Shawls.) No. 22,857; May 3; v. 286; p. 197.
- Beckman Company, The, Cleveland, Ohio. "Northern Ohio Woolware." (For Wool Robes and Wool Shawls.) No. 22,947; May 31; v. 286; p. 1057.
- Beechman, S. & Sons Inc., New York, N. Y. "No-Wet." (For Baby-Pants.) No. 23,618; Nov. 8.
- Beich, Paul F., Company, Bloomington, Ill. "Beich's Chocolate Milk Nougat." (For Candy.) No. 23,055; July 5; v. 288; p. 201.
- Bell, Claude A., Lowell, Mass. "Standard Golden Ointment." (For Ointment.) No. 22,422; Jan. 25; v. 282; p. 739.
- Belle Meade Butter Company. (See Menasha Printing and Carton Company, assignor.)
- Bendix, Paul R., New York, N. Y. "Ranney's Admiration Chocolates Assorted." (For Boxes Containing Chocolate Candies.) No. 22,795; Mar. 29; v. 284; p. 955.
- Berks Knitting Company, Reading, Pa. "Ronnie Belle." (For Hosiery.) No. 23,341; Sept. 6; v. 290; p. 223.
- Berliner, Emile, Washington, D. C. "Sweet Grenns." (For a Prepared Cereal Food.) No. 23,056; July 5; v. 288; p. 201.
- Bernhart, Reuben Y., Toledo, Ohio. "Dated Coffee." (For Coffee.) No. 23,792; Dec. 20.
- Berry, Dr. C. H., Company, Chicago, Ill. "Kremola." (For Skin-Cream.) No. 23,720; Dec. 13.
- Berthiaume, J., & Co., Spencer, Mass. "Naragansett Spring." (For Ginger-Ale.) No. 22,796; Mar. 29; v. 284; p. 955.
- Beville, Alfred S., Jacksonville, Fla. "Clover Leaf Bakery." (For Bread.) No. 23,793; Dec. 20.
- Bielek Manufacturing Company, Inc., Pittsburgh, Pa. "Cabalik's Liečivá Vlna." (For Medicinal Wine.) No. 22,720; Mar. 22; v. 284; p. 753.
- Binswanger & Co. (See Menasha Printing and Carton Company, assignors.)
- Bisceglia Brothers Canning Co., San Jose, Calif. "Paradise." (For Canned Apricots.) No. 22,687; Mar. 15; v. 284; p. 588.
- Bishop, Arthur W., St. Louis, Mo. "King & Winston." (For a Pile Remedy.) No. 22,601; Mar. 1; v. 284; p. 180.
- Blackstone, Alex., Newark, N. J. "Tru-Lax." (For Boxes Containing True Chocolate Laxatives.) No. 23,272; Aug. 30; v. 289; p. 1019.
- Blatz, J. M., Philadelphia, Pa. "American Beauty Cotton Hose." (For Hosiery.) No. 22,797; Mar. 29; v. 284; p. 955.
- Blatz, Val., Jr., Candy Co., Milwaukee, Wis. "Dreamy Dawn." (For Candy.) No. 23,721; Dec. 13.
- Bleher-Marmon Manufacturing Co., Lima, Ohio. "Bleher Concentrated Liniment." (For a Liniment Known as Bleher Concentrated Liniment.) No. 22,890; May 17; v. 286; p. 644.



- Blenner, A. E., & Co., Inc., New Haven, Conn. "Cormond Water." (For Washing and Cleaning Preparation.) No. 22,994; June 14; v. 287; p. 403.
- Blom, Benjamin, Detroit, Mich. "Blom's Home Made Pear-Egg Mayonnaise." (For Mayonnaise.) No. 23,342; Sept. 6; v. 290; p. 223.
- Blommers Ice Cream Company, (See Menasha Printing and Carton Company, assignor.)
- Blue Seal Bed Spring Co., The, Brooklyn, N. Y. "Beds and Springs—Fit for Kings." (For Beds and Springs.) No. 23,585; Nov. 1.
- Bohannon, Wilson, Inc., Brooklyn, N. Y. "Bohannon." (For Locks.) No. 23,273; Aug. 30; v. 289; p. 1019.
- Bon I. Look Stores Company, The, Denver, Colo. "Westernaire." (For Canned Fruits, Vegetables, and Fish, Cane and Maple Syrups for Foods, Molasses, Strained Honey, Apple-Butter, Fruit Jams, Pork and Beans, Coffee, and Ready-Mixed Paints.) No. 22,948; May 31; v. 286; p. 1057.
- Bon I. Look Stores Company, The, Denver, Colo. "You Must Be Satisfied." (For Dried Fruits, Hominy-Grits, Chilli-Pods, Cocoa, Sugar, Tea, Spices, Cocoanut, Beans, Rice, Rolled Oats, Chocolate, Sago, Coffee, Tapioca, Barley, Sal Soda, Sulfur, Gloss-Starch, and Blue Vitriol.) No. 22,949; May 31; v. 286; p. 1057.
- Bonney Vise & Tool Works, Allentown, Pa. "Fin-Twister." Particularly Useful on Ford Cars." (For Box-Tops.) No. 23,586; Nov. 1.
- Bon Santé Company, De Land, Fla. "Bon Santé Baume, a Home Treatment for Hemorrhoids." (For Boxes Containing a Balm for Hemorrhoids.) No. 23,057; July 5; v. 288; p. 201.
- Bon Santé Company, De Land, Fla. "Bon Santé Glycerine Tonic." (For a General Systemic Tonic.) No. 23,058; July 5; v. 288; p. 201.
- Bon Santé Company, De Land, Fla. "Bon Santé Laxative." (For Boxes Containing a Laxative Medicine.) No. 23,059; July 5; v. 288; p. 201.
- Bon Santé Company, De Land, Fla. "Bon Santé Nerve Tonic Tablets." (For Nerve-Tonic Tablets for Tired Nerves.) No. 23,060; July 5; v. 288; p. 201.
- Bon Santé Company, De Land, Fla. "Bon Santé Baume, Good Health Balm, a Home Treatment for Diseases of Women." (For Boxes Containing a Medicine for Diseases of Women.) No. 23,061; July 5; v. 288; p. 201.
- Bon Santé Company, De Land, Fla. "Bon Santé Ointment." (For Boxes Containing Ointment.) No. 23,121; July 26; v. 288; p. 827.
- Bon Santé Company, De Land, Fla. "Bon Santé Baume (Good Health Balm)." (For Boxes Containing Medicine for Stomach Trouble.) No. 23,122; July 26; v. 288; p. 827.
- Borlini, Henry L., Brooklyn, N. Y. "B. B. B. Borlini's Bird Blend." (For a Food Tonic for Cage-Birds.) No. 23,841; Dec. 27.
- Bourk-Donaldson-Taylor Fruit Company, The, Denver, Colo. "Extra Select Diamond Brand." (For Boxes of Oranges.) No. 23,794; Dec. 20.
- Bowen, Dave, Cairo, Ga. "Insect Gas." (For Insecticides.) No. 23,658; Nov. 22.
- Boyshform Brassiere Co., The, New York, N. Y. "Boyshform Brassiere." (For Cartons or Boxes Containing Brassieres.) No. 23,190; Aug. 23; v. 289; p. 796.
- Brach, E. J., and Sons, Chicago, Ill. "Brach's Chocolates Assorted." (For Boxes and Cartons Containing Candy.) No. 23,191; Aug. 23; v. 289; p. 796.
- Brach, E. J., and Sons, Chicago, Ill. "Brach's Chocolate Covered Cherries in Cream." (For Candy.) No. 23,192; Aug. 23; v. 289; p. 796.
- Brach, E. J., and Sons, Chicago, Ill. "Brach's Fruits and Nuts in Cream Chocolate Covered." (For Candy.) No. 23,274; Aug. 30; v. 289; p. 1019.
- Brach, E. J., and Sons, Chicago, Ill. "Brach's Chocolates Six Favorite Selections." (For Candy.) No. 23,275; Aug. 30; v. 289; p. 1019.
- Brach, E. J., and Sons, Chicago, Ill. "Brilliant Hard Mixture." (For Candy.) No. 23,276; Aug. 30; v. 289; p. 1019.
- Brach, E. J., and Sons, Chicago, Ill. "Rastus 7—11." (For Candy.) No. 23,414; Sept. 13; v. 290; p. 431.
- Bradley-Wise Paint Company, Los Angeles, Calif. "Bradley's." (For Paints.) No. 23,587; Nov. 1.
- Brady, King, Chicago, Ill. "King Brady's Red Oil." (For Bottles of Liniment.) No. 22,895; May 24; v. 286; p. 860.
- Bratton, Elizabeth, Columbus, Ohio. "Tch U Blocks." (For Educational Blocks.) No. 23,522; Oct. 25.
- Breakfast Brownies Company, Helena, Mont. "Breakfast Brownies Chocolate." (For Packages Containing Breakfast Food.) No. 22,798; Mar. 29; v. 284; p. 955.
- Brechet & Richter Company, Minneapolis, Minn. "Frap-O." (For Syrup of Wild-Cherry Flavor.) No. 23,722; Dec. 13.
- Brer Rabbit Candy Company, Detroit, Mich. "Brer Rabbit Kisses." (For Candy Wrappers, Boxes, and Containers as Used in Marketing the Candy Sold by This Company.) No. 23,659; Nov. 22.
- Briganti, Croce, New York, N. Y. "Briganti's Great Blood Purifier." (For a Tonic for the Blood.) No. 23,523; Oct. 25.
- Bright Star Battery Co., New York, N. Y. "Bright Star." (For Dry-Cell Batteries.) No. 23,415; Sept. 13; v. 290; p. 431.
- Brockett, Arthur A., Little Falls, N. Y. "Black and White Hoof-Rot Remedy." (For Hoof-Rot Remedy, Fly-Repellent, and Healing Oil for External Use on Cattle and Sheep.) No. 23,619; Nov. 8.
- Bromm, L., Baking Co., The, Richmond, Va. "Bromm's Old Virginia." (For Fruit Cake.) No. 23,446; Oct. 18.
- Brondi, Edward F., New York, N. Y. "Breakfast Joy." (For Coffee.) No. 22,532; Feb. 8; v. 283; p. 361.
- Brons, Frederick J., Peoria, Ill. "Peoria." (For Canned Red Beans.) No. 22,455; Feb. 1; v. 283; p. 178.
- Brown, Arthur A., St. Louis, Mo. "Neo-Balsam Compound." (For Packages Containing Filling Material for Filling the Root-Canals of Teeth.) No. 23,277; Aug. 30; v. 289; p. 1019.
- Brown & Haley, Tacoma, Wash. "Totem Poles." (For Cartons or Boxes of Candies.) No. 23,842; Dec. 27.
- Brunk, Mary V., Kansas City, Mo. "B. C. C. B." (For Caps, Hats, and Bonnets and Containers Thereof.) No. 23,795; Dec. 20.
- Brunswick, Robert, Boston, Mass. "Rob't. Brunswick Brand Malt Extract." (For Packages, Bottles, and Cartons Containing Malt Extract Known as Robt. Brunswick Brand Malt Extract.) No. 22,721; Mar. 22; v. 284; p. 753.
- Buchert, Harold C., Springfield, Ohio. "Koff-No-Mor." (For a Remedy for Coughs, Colds, &c.) No. 22,950; May 31; v. 286; p. 1057.
- Budweiser Malt Products Corporation, New York, N. Y. "Budweiser Malt Syrup." (For Malt Syrup.) No. 22,456; Feb. 1; v. 283; p. 178.
- Burd High Compression Ring Company, Rockford, Ill. "Burd Quick Seating Piston Rings." (For Piston-Rings.) No. 23,723; Dec. 13.
- Burger, Iwan, Inc., New York, N. Y. "Norbest." (For Sardines.) No. 23,344; Sept. 6; v. 290; p. 223.
- Burgoon, E., Columbus, Ohio. "Mother's Pile Ointment." (For Medicinal Salve.) No. 23,345; Sept. 6; v. 290; p. 223.
- Burk-Donaldson-Taylor Fruit Company, Denver, Colo. "Extra Select Diamond Brand." (For Boxes of Grapefruit.) No. 23,343; Sept. 6; v. 290; p. 223.
- Burns, John, Buffalo, N. Y. "Sal-Li-Lax." (For Medicines for Disorders of the Stomach, Liver, and Bowels.) No. 23,346; Sept. 6; v. 290; p. 223.
- Burson Knitting Company, Rockford, Ill. "Burson Fashioned Hose." (For Cartons for Hosiery.) No. 23,416; Sept. 13; v. 290; p. 431.
- Busch and Spreckels, Inc., New York, N. Y. "B & S Garcia." (For Cigars.) No. 22,571; Feb. 15; v. 283; p. 549.
- Busche, Fred C., Oakland, Calif. "Grandma's Cake." (For Wrapped Squares of Loaf-Cake.) No. 22,722; Mar. 22; v. 284; p. 753.
- Bushway Ice Cream Company, (See Menasha Printing and Carton Company, assignors.)
- C. & D. Manufacturing Corporation, Detroit, Mich. "Cadillac." (For Electric Washing-Machines and Wringers.) No. 23,193; Aug. 23; v. 289; p. 796.
- C. J. Fox Company, The, Providence, R. I. "Greco." (For Candy-Boxes.) No. 23,163; Aug. 9; v. 289; p. 409.
- California Bakery Company, Bisbee, Ariz. "Golden Crust Loaf." (For Bread.) No. 23,724; Dec. 13.
- California Brewing Association, San Francisco, Calif. "Light Ache a Healthful Beverage." (For Barrels, Containers, or Packages for Containing the Beverage.) No. 23,347; Sept. 6; v. 290; p. 223.
- California Conserving Co., San Francisco, Calif. "California Home." (For Pickles.) No. 23,588; Nov. 1.
- California Grape Products Co., Ukiah, Calif. "Call-grapo." (For Concentrated Grape Products in the Form of Grape Syrups.) No. 23,123; July 26; v. 288; p. 827.
- California Growers Association, Inc., Los Angeles, Calif. "California Growers." (For Canned Peaches.) No. 22,533; Feb. 8; v. 283; p. 361.
- Camp, Mrs. Kathryn, Indianapolis, Ind. "Presto Metal Polish." (For Bottled Metal-Polish.) No. 23,524; Oct. 25.
- Camp, Mrs. Kathryn, Indianapolis, Ind. "Nu-Life Silver Plate and Polish." (For Bottled Silver Plate and Polish.) No. 23,660; Nov. 22.
- Canby, Ach and Canby Company, The, Dayton, Ohio. "King Cole." (For Coffee.) No. 22,723; Mar. 22; v. 284; p. 753.
- Candi-Lax Mfg. Company, The, Cincinnati, Ohio. "Helm's Candi-Lax." (For Fruit Laxative.) No. 23,062; July 5; v. 288; p. 201.
- Candi-Lax Mfg. Company, The, Cincinnati, Ohio. "Helm's Candi-Lax." (For Fruit Laxative.) No. 23,063; July 5; v. 288; p. 201.
- Candy Craft Shops, Inc., The, Chicago, Ill. "Candy Craft Bubble Box." (For Boxes for Candy Craft Bubble Box.) No. 23,725; Dec. 13.
- Candy Products Corporation, Chicago, Ill. "Big Baby." (For Chocolate-Cream Roll.) No. 22,534; Feb. 8; v. 283; p. 361.
- Cargill Brothers, Washington, D. C. "Miracle Washing Crystal." (For Washing Clothes, Windows, Woodwork, Dishes, and for Cleaning Purposes.) No. 23,064; July 5; v. 288; p. 201.



*Alphabetical list of registrants of labels—Continued.*

- Cargue Pure Food Company, Los Angeles, Calif. "Prunola." (For Containers or Cartons Containing Prunola, a Preparation of Sun-Dried Olives and Prunes.) No. 23,525; Oct. 25.
- Carroll, Connor, Boston, Mass. "Coal Dust Twins." (For Puzzles.) No. 23,162; Aug. 9; v. 289; p. 409.
- Caruso, Michael, New Bedford, Mass. "Elder Tree Extract." (For a Medicinal Preparation of Oil Extracted from the Elder-Tree.) No. 22,858; May 3; v. 286; p. 197.
- Cauley, W. H., Goulds, Fla. "Globe." (For Tomatoes.) No. 22,995; June 14; v. 287; p. 403.
- Cereal Products Refining Company, San Francisco, Calif. "Peerless Grain Vinegar." (For Vinegar.) No. 22,377; Jan. 11; v. 282; p. 384.
- Cereal Products Refining Company, San Francisco, Calif. "Oro Syrup for Bakers and Confectioners." (For Barrels, Containers, or Packages Containing the Syrup.) No. 22,572; Feb. 15; v. 283; p. 549.
- Cereal Products Refining Company, San Francisco, Calif. "Cereal Malt Syrup." (For Barrels, Containers, or Packages Containing the Syrup.) No. 22,573; Feb. 15; v. 283; p. 549.
- Certified Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
- Channell Chemical Company, Chicago, Ill. "O-Cedar." (For a Polish for Furniture, Floors, Linoleum, Pianos, and Autos.) No. 23,026; June 28; v. 287; p. 783.
- Charms Co., Newark, N. J. "Pecan-Nougat-Loaf." (For Pecan Nougat Loaves.) No. 22,423; Jan. 25; v. 282; p. 739.
- Chase Davis Aldrich, Blandinsville, Ill. "Aldrich's A No. 1 A Back-to-the-Old Times Good Cigar." (For Boxes Containing Cigars.) No. 23,021; June 21; v. 287; p. 592.
- Cheek-Neal Coffee Company, Nashville, Tenn. "Maxwell House, Good to the Last Drop." (For Coffee.) No. 23,278; Aug. 30; v. 289; p. 1019.
- Cheek-Neal Coffee Company, Nashville, Tenn. "Hotel Galvez." (For Coffee.) No. 23,348; Sept. 6; v. 290; p. 223.
- Cheri Inc., Philadelphia, Pa. "Cheri Kisses (Dearie)." (For Candy Kisses.) No. 23,447; Oct. 18.
- Chicago White Lead and Oil Co., Chicago, Ill. "King Liquid Paint, Highest Quality King Paint Products." (For Containers for Liquid Paint and Paint-Products.) No. 22,602; Mar. 1; v. 284; p. 180.
- Choc'-O-La Co., San Francisco, Calif. "Choc'-O-La." (For Non-Alcoholic Beverage.) No. 23,114; July 12; v. 288; p. 430.
- Choc'-O-La Co., San Francisco, Calif. "Be-Ar'-O-La." (For a Non-Alcoholic Beverage, Sold as a Soft Drink and Containing Sugar and Chocolate Flavoring.) No. 23,661; Nov. 22.
- Christian Peper Tobacco Company, St. Louis, Mo. "Kadee." (For Cigarettes.) No. 22,616; Mar. 8; v. 284; p. 375.
- Christian Peper Tobacco Co., St. Louis, Mo. "Tooth Pick." (For Tobacco.) No. 22,951; May 31; v. 286; p. 1057.
- Christian Peper Tobacco Co., St. Louis, Mo. "E Twist." (For Tobacco.) No. 23,526; Oct. 25.
- Christopher, L. J., Company. (See Menasha Printing and Carton Company, assignor.)
- Cinco Syrups and Fountains Company, Greenville, S. C. "Muscadine Toddy." (For Containers for Beverages of a Non-Alcoholic Nature.) No. 22,896; May 24; v. 286; p. 860.
- City Dairy Co. (See Menasha Printing and Carbon Company, assignor.)
- Clark, Walter G., New York, N. Y. "Concentrated Sun-ripe Lemon Juice." (For Containers of Lemon-Juice or Wrappers Thereof.) No. 22,952; May 31; v. 286; p. 1057.
- Clark, Walter G., New York, N. Y. "Concentrated Sun-ripe Orange Juice." (For Containers of Orange-Juice or Wrappers Thereof.) No. 22,953; May 31; v. 286; p. 1057.
- Clawson & Wilson Company, Buffalo, N. Y. "Tumble In' Sleeping Garments." (For Children's Flannelette Sleeping-Garments.) No. 22,617; Mar. 8; v. 284; p. 375.
- Cleanall Chemical Company, Chicago, Ill. "Cleanall." (For Cleaning Compounds.) No. 23,279; Aug. 30; v. 289; p. 1019.
- Cloverleaf Creameries, Inc. (See Menasha Printing and Carton Company, assignors.)
- Coco Soap Company, The, Denver, Colo. "Coco Mechanic Soap." (For Soap.) No. 22,378; Jan. 11; v. 282; p. 384.
- Coffin, Geo. E., Shoe Co., Inc., Lynn, Mass. "Acme Arch Grip Shoe." (For Shoes.) No. 23,065; July 5; v. 288; p. 201.
- Cohen, Nathan B., Scranton, Pa. "Notair." (For Hair-Nets.) No. 22,996; June 14; v. 287; p. 403.
- Cohen, Syma, Chicago, Ill. "Lady Esther." (For Face-Powder.) No. 23,796; Dec. 20.
- Cole, C. H., Denver, Colo. "Columbine Grinding Compound." (For Cans Containing Grinding Compound.) No. 22,997; June 14; v. 287; p. 403.
- Cole Lithographing & Printing Co., Chicago, Ill. "Musolino." (For Cigars.) No. 23,726; Dec. 13.
- Collins-Ilencke Candy Co., San Francisco, Calif. "Gingham Girl." (For Candy.) No. 23,350; Sept. 6; v. 290; p. 223.
- Collins, J. N., Company, Minneapolis, Minn. "Honey Scotch." (For Candy.) No. 23,349; Sept. 6; v. 290; p. 223.
- Colonial Biscuit Company, The, Philadelphia, Pa. "Colonial Cake." (For Cake.) Nos. 23,527-8; Oct. 25.
- Colonial Can Co., Boston, Mass. "San Marino Brand Pure Olive Oil." (For Cans for Containing Oil.) No. 22,424; Jan. 25; v. 282; p. 739.
- Colorado Packing Corporation, The, Canon City, Colo. "Suprema Apricots." (For Apricots.) No. 22,574; Feb. 15; v. 283; p. 549.
- Colorado Packing Corporation, The, Canon City, Colo. "Suprema Pitted Red Cherries." (For Pitted Red Cherries.) No. 22,575; Feb. 15; v. 283; p. 549.
- Colorado Packing Corporation, The, Canon City, Colo. "Suprema Apples." (For Apples.) No. 22,576; Feb. 15; v. 283; p. 549.
- Colorado Packing Corporation, The, Canon City, Colo. "Suprema Peaches." (For Peaches.) No. 22,577; Feb. 15; v. 283; p. 549.
- Colorado Packing Corporation, The, Canon City, Colo. "Suprema Sweet Apple Cider." (For Sweet Apple Cider.) No. 22,578; Feb. 15; v. 283; p. 549.
- Colorado Packing Corporation, The, Canon City, Colo. "Suprema Pears." (For Pears.) No. 22,579; Feb. 15; v. 283; p. 549.
- Columbia Graphophone Company, New York, N. Y. "Columbia Exclusive Artist." (For Sound-Records of the Columbia Graphophone Company.) Nos. 23,194-5; Aug. 23; v. 289; p. 796.
- Columbia Graphophone Company, New York, N. Y. "Columbia Exclusive Artist." (For Sound-Records of the Columbia Graphophone Company.) No. 23,417; Sept. 13; v. 290; p. 431.
- Columbus Chemical Company, Columbus, Ga. "Smith's Prescription #711." (For a Medicinal Preparation for the Treatment of Bladder, Kidney, and Allied Troubles and Genital Affections.) No. 22,954; May 31; v. 286; p. 1057.
- Concrete Products Co., Trenton, N. J. "C. P. Co's. Concrete Products Enduring as The Pyramids." (For Specimens of Concrete Bricks, Concrete Blocks, and other Concrete Building Materials.) No. 23,529; Oct. 25.
- Connell, James L., Holyoke, Mass. "Justgargle." (For Bottles, Boxes, and Packages Containing a Gargle.) No. 22,618; Mar. 8; v. 284; p. 375.
- Conover, Harvey, Chicago, Ill. "Oasis." (For Beverages.) No. 23,066; July 5; v. 288; p. 201.
- Cook, Sam R., Rockport, Ind. "Old Kentucky Blended Blue Grass Rye." (For Tiny Bottles Containing Water, Few Grains of Rye, and Real Blades of Blue-Grass as an Advertising Novelty.) No. 22,897; May 24; v. 286; p. 860.
- Cooper, Frank J., San Francisco, Calif. "Trustment." (For Printed Matter, Insurance-Policies, Shares of Stock, Bonds, and other Certificates of Indebtedness.) No. 23,124; July 26; v. 288; p. 827.
- Corcoran, Harry, Chicago, Ill. "Home Maid." (For Cans of Liquid Malt Extract.) No. 23,530; Oct. 25.
- Cornwell, G. G., & Son, Washington, D. C. "Cornwell's Sunday Paper Nougats." (For Packages of Candy—Namely, Nougats.) No. 22,725; Mar. 22; v. 284; p. 753.
- Cornwell, G. G., & Son, Washington, D. C. "Cornwell's Matinee Mints." (For Packages of Candy—Namely, Mints.) No. 22,726; Mar. 22; v. 284; p. 753.
- Corona Typewriter Company, Inc., Groton, N. Y. "Fold it up—take it with you—typewrite anywhere." (For Typewriting-Machines.) No. 22,724; Mar. 22; v. 284; p. 753.
- Cotter, Ralph E., San Francisco, Calif. "Dolores." (For Canned Sardines.) No. 22,457; Feb. 1; v. 283; p. 178.
- Counterbalance Rubber Heel Co., Elyria, Ohio. "J D." (For Receptacles Containing Rubber Heels.) No. 23,448; Oct. 18.
- Creech Chemical Co., Smithfield, N. C. "Johnston's Dentex." (For Bottles Containing a Tooth-Cleaner.) No. 23,351; Sept. 6; v. 290; p. 223.
- Crescent Creamery Co. (See Menasha Printing and Carton Company, assignor.)
- Croker Packing Co., San Francisco, Calif. "Malt and Hops." (For Syrup.) No. 23,727; Dec. 13.
- Crown Brewing Company, The, Cincinnati, Ohio. "Crown Malt Extract." (For Cans Containing Malt Extract.) No. 23,449; Oct. 18.
- Cunningham Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
- Curtis & Co. Mfg. Co., St. Louis, Mo. "Curtis St. Louis." (For Advertising Purposes for Machinery and Equipment.) No. 23,531; Oct. 25.
- D & C Co., Inc., The, New York, N. Y. "D & C Ready Cake." (For Prepared Cake-Flour.) No. 22,458; Feb. 1; v. 283; p. 178.
- Dahke-Walker Milling Co., Union City, Tenn. "Brag Self-Rising Flour." (For Wheat-Flour.) No. 22,799; Mar. 29; v. 284; p. 955.



- Dahnke-Walker Milling Co., Union City, Tenn. "Brag Bolted Meal." (For Cornmeal.) No. 22,859; May 3; v. 286; p. 197.
- Dairymen's League Co-Operative Association, Inc., Utica N. Y. "Dairymen's League Evaporated Milk." (For Evaporated Milk.) No. 23,797; Dec. 20.
- Dairymen's League Co-Operative Association, Inc., Utica, N. Y. "Dairymen's League Butter." (For Butter.) No. 23,798; Dec. 20.
- Dairymen's League Co-Operative Association, Inc., Utica N. Y. "Dairymen's League Sweetened Condensed Milk." (For Condensed Milk.) No. 23,799; Dec. 20.
- Daniel Green Felt Shoe Company, Dolgeville and New York, N. Y. "Daniel Green Comfy Slippers." (For Boxes Containing Slippers.) No. 22,619; Mar. 8; v. 284; p. 375.
- Danna, Frank, Baton Rouge, La. "Red Stick Coffee." (For Coffee.) No. 23,196; Aug. 23; v. 289; p. 796.
- Davis, Israel, Lawrence, Mass. "Be-Ta." (For Food Beverages.) No. 23,843; Dec. 27.
- Davis & Lawrence Company, New York, N. Y. "The D & L Prescription 1920." (For a Compound Syrup of Hypophosphites.) No. 22,389; Jan. 18; v. 282; p. 563.
- Decatur Brewing Company, Decatur, Ill. "White Banner." (For Hops.) No. 23,728; Dec. 13.
- De Hoyos Bros., New York, N. Y. "Cural." (For Soap.) No. 22,860; May 3; v. 286; p. 197.
- Delta Electric Company, Marion, Ind. "Delta Battery." (For Dry Batteries.) No. 22,390; Jan. 18; v. 282; p. 563.
- Del-Wit, W. D., Oakwood Heights, N. Y. "Kina-Tone." (For Bottles Containing Kina-Tone.) No. 23,280; Aug. 30; v. 289; p. 1019.
- Del-Wit, William D., New York, N. Y. "Ferro-China Italia." (For Bottles Containing a Compound Medicinal Preparation.) No. 22,861; May 3; v. 286; p. 197.
- Denebrink, B. T., Sheridan, Wyo. "Denebrink's Cuban Rose." (For Cigars.) No. 22,955; May 31; v. 286; p. 1057.
- Denney & Co., Chicago, Ill. "Sweetheart." (For Fresh Apples.) No. 22,459; Feb. 1; v. 283; p. 178.
- Detroit Concrete Receptacle Co., Detroit, Mich. "Last a Life Time." (For Garbage-Receptacles and Crates and Boxes Containing Said Receptacles.) No. 22,580; Feb. 15; v. 283; p. 549.
- Devoy & Reynolds Co. Inc., New York, N. Y. "Daylight in Every Drop." (For Paints.) No. 22,862; May 3; v. 286; p. 197.
- Dexter Baking Company, The, Waterbury, Conn. "Dexter's Mother's Bread." (For Bread.) No. 22,460; Feb. 1; v. 283; p. 178.
- Dexter Baking Company, The, Waterbury, Conn. "Dexter's Mother's Bread." (For Bread.) No. 22,461; Feb. 1; v. 283; p. 178.
- Dexter Sulphite Pulp & Paper Co., Dexter, N. Y. "Rex Fibre Wrapping." (For Wrapping-Paper.) No. 22,581; Feb. 15; v. 283; p. 549.
- Dill Company, The, Morristown, Pa. "Dill's Ez-A-Cold." (For a Medicinal Preparation for Aid in the Treatment of Colds, Croup, Pneumonia Symptoms, Inflammation and Congestion of the Air-Passages, Burns, Bruises, Insect-Stings, Bronchitis, Neuralgia, Sprains, Tonsillitis, and Whooping-Cough.) No. 22,998; June 14; v. 287; p. 403.
- Dinuba Grape Growers Assn., Dinuba, Calif. "Western." (For Grapes.) No. 23,027; June 28; v. 287; p. 783.
- Di Salvo, G., & A., Paterna, Brooklyn, N. Y. "Egg Plants." (For Packages Containing Egg-Plant.) No. 23,844; Dec. 27.
- Dodge, Sweeney & Co., San Francisco, Calif. "Dodge." (For Canned Peaches.) No. 23,067; July 5; v. 288; p. 201.
- Dodge, Sweeney & Co., San Francisco, Calif. "Dodge." (For Canned Peas.) No. 23,068; July 5; v. 288; p. 201.
- Dolinger, Henry. (See Menasha Printing and Carton Company, assignor.)
- D'Orlando Co., Boston, Mass. "Marathon." (For Chocolates.) No. 23,589; Nov. 1.
- D'Orlando Co., Boston, Mass. "The Prize." (For Chocolates.) No. 23,621; Nov. 8.
- Double Century Needle Manufacturing Corp., New York, N. Y. "Double Century Needle." (For Needles.) No. 22,425; Jan. 25; v. 282; p. 739.
- Douglas, Nu-Wa Co., Crete, Nebr. "Anti-Dirt." (For Cleanser.) No. 22,462; Feb. 1; v. 283; p. 178.
- Draper, Geo. H., Jr., Milford, Del. "Can Dandy Brand Sifted Early June Peas." (For Cans Containing Early June Peas.) No. 23,532; Oct. 25.
- Drew, Charles S. and Harry R. Lipke, New York, N. Y. "Jack Frost Shirt." (For Shirts.) No. 22,463; Feb. 1; v. 283; p. 178.
- Dufner, James J., Minneapolis, Minn. "Dr. Dufner's." (For Mouth-Antiseptic.) No. 22,999; June 14; v. 287; p. 403.
- Duncan, James Floyd, Mount Vernon, Ill. "The Dont Worry Tire Patch." (For Patches Prepared for Use in Repairing Rubber Articles.) No. 23,352; Sept. 6; v. 290; p. 223.
- Du Pont Food Products Company, The, Baltimore, Md. "Caldo Frances French Bouillon." (For Boxes of Bouillon Tablets.) No. 22,800; Mar. 29; v. 284; p. 955.
- Eagle Beverage Co., Rochester, N. Y. "Lawrence Brand X X X Malt." (For Beverages (Malt).) No. 23,662; Nov. 22.
- Earl, Eugenie, San Francisco, Calif. "Klean-Glas." (For Liquid for Cleaning Glass.) No. 23,450; Oct. 18.
- Eaton, R. L., Atlanta, Ga. "Liveretts." (For Tablets for the Treatment of the Liver.) No. 22,391; Jan. 18; v. 282; p. 563.
- Eckenrode, John M., Pasadena, Calif. "Heck's Root Beer." (For Containers for Root-Beer.) No. 22,863; May 3; v. 286; p. 197.
- Eggert Chemical Company, The, Canton, Ohio. "Liquid Cedar." (For a Liquid-Oil Wash or Polish Made Chiefly of Oil of Cedar.) No. 23,845; Dec. 27.
- Ejecto Cigarette Holder Co., San Francisco, Calif. "Ejecto." (For Mouthpiece-Holders for Cigarette Products.) No. 23,451; Oct. 18.
- Emerick, Martin L., Lancaster, Pa. "Diges-Aids." (For Bottles Containing a Medicine for Indigestion.) No. 22,620; Mar. 8; v. 284; p. 375.
- Emerson, Elmer E., Milwaukee, Wis. "Good Luck Malt Syrup." (For Containers of a Concentrated Syrup Manufactured from Malt and other Grain.) No. 23,028; June 28; v. 287; p. 783.
- Empire Food Products Company, New York, N. Y. "Empire Choc-O-Lette." (For a Powder Containing Cocoa, Sugar, and Skimmed Milk for Making a Beverage.) No. 23,452; Oct. 18.
- Empire Food Products Company, New York, N. Y. "Empire Powdered Milk." (For Powdered Skimmed Milk.) No. 23,453; Oct. 18.
- Empire Food Products Company, New York, N. Y. "Reelegg Eggs in Powdered Form." (For Eggs in Powdered Form.) No. 23,454; Oct. 18.
- Empire Food Products Company, New York, N. Y. "Empire Baking Powder." (For Baking-Powder.) No. 23,455; Oct. 18.
- Empire Food Products Company, New York, N. Y. "Peacock Instant Coffee." (For Powdered Coffee.) No. 23,533; Oct. 25.
- Engelman, Samuel, Brooklyn, N. Y. "Re-Election." (For Cigars.) No. 22,727; Mar. 22; v. 284; p. 753.
- Ennals & Company, Inc., Morristown, N. J. "Foresight." (For Boxes Containing Cigars.) No. 22,898; May 24; v. 286; p. 860.
- Equity Growers & Shippers Association, Hamilton, Mont. "Equity." (For Apples.) No. 23,663; Nov. 22.
- Est, Henry C. Miner, Inc., New York, N. Y. "Face Powder." (For Face-Powder.) No. 22,801; Mar. 29; v. 284; p. 955.
- Eureka Metal Polish Co. (Inc.), Chicago, Ill. "Eureka." (For Metal-Polish.) No. 22,864; May 3; v. 286; p. 197.
- Evans, Elise M., New York, N. Y. "Cupid's Haunt." For Articles of Women's Apparel, Ladies' Waists or Blouses, Underwear, Hosiery, Neckwear, Sweaters, Corsets, Gloves, and Dresses.) No. 23,353; Sept. 6; v. 290; p. 223.
- Evansville Pure Milk Co's. (See Menasha Printing and Carton Company, assignor.)
- Everett, Heaney & Company, Inc., New York, N. Y. "Dril Lujoso." (For Piece Goods.) No. 22,802; Mar. 29; v. 284; p. 955.
- E-Z Waist Company, The, New York, N. Y. "Children's Grey Sleeping Garment." (For Sleeping-Garments.) No. 23,069; July 5; v. 288; p. 201.
- Eze Products Company, Denver, Colo. "Eze Anto Polish." (For Liquid Auto-Polish.) No. 23,418; Sept. 18; v. 290; p. 431.
- Fadden, M. F., & Sons, Inc. (See Menasha Printing and Carton Company, assignor.)
- Farmers Creamery & Ice Cream Co., The. (See Menasha Printing and Carton Company, assignor.)
- Farmers Mutual Creamery Inc. (See Menasha Printing and Carton Company, assignors.)
- Faulkner, Homer W., Mount Vernon, Ill. "Scout Suckers." (For Candy Suckers.) No. 22,464; Feb. 1; v. 283; p. 178.
- Faulkner, Homer W., Mount Vernon, Ill. "Rainbow Kisses." (For Candy Kisses.) No. 22,465; Feb. 1; v. 283; p. 178.
- Federal Overgaiter Company, New York, N. Y. "Skippers." (For Felt Shoes.) No. 22,728; Mar. 22; v. 284; p. 753.
- Federal Underwear Co., New York, N. Y. "Smiling Baby." (For Infants' Bath-Robes.) No. 23,125; July 26; v. 288; p. 827.
- Ferguson, Jas., Santa Barbara, Calif. "Foothill Brand Honey." (For Honey.) No. 23,729; Dec. 13.
- Finkelman, George A., Revere, Mass. "Scalp-Tonic for Dandruff." (For a Container of a Scalp-Tonic for Dandruff.) No. 22,621; Mar. 8; v. 284; p. 375.
- Fire Paralyzer Works, Anaheim, Calif. "The Fire Paralyzer." (For Fire-Extinguishers.) No. 22,729; Mar. 22; v. 284; p. 753.
- First National Pharmacy, Leighton, Pa. "First National Tasteless Solution of Epsom Salt." (For Bottles Containing a Tasteless Solution of Epsom Salt.) No. 23,070; July 5; v. 288; p. 201.
- First National Pharmacy, Leighton, Pa. "First National P. E. P." (For Bottles Containing a Medicine for Restoring Lost Vitality of Men and for Upbuilding the Nervous System.) No. 23,590; Nov. 1.
- First National Pharmacy, Leighton, Pa. "First National Beauty Complexion Wafers." (For Packages Containing a Medicine for Treatment of Boils, Pimples, Blackheads, &c., Due to Constipation.) No. 23,800; Dec. 20.



*Alphabetical list of registrants of labels—Continued.*

- First National Pharmacy, Leighton, Pa. "Royal Purple Pennyroyal Female Pills." (For Boxes Containing a Medicine for Treatment of Delayed Menstruation, for Painful Menses, Relieving Burning and Chafing.) No. 23,846; Dec. 27.
- Fitzpatrick Bros., Chicago, Ill. "Kitchen Klenzer Maid." (For Cleaning and Scouring Compound.) No. 22,466; Feb. 1; v. 283; p. 178.
- Fitzpatrick Bros., Chicago, Ill. "Hurts Only Dirt." (For Cleaning and Scouring Compound for Household Use and for Cleaning, Scouring, and Polishing Metal, Glass, Woodwork, Machinery, &c.) No. 23,281; Aug. 30; v. 289; p. 1019.
- Fluno Co., Bridgeport, N. J. "Flunoine." (For Boxes, Bottles, Jars, and Packages Containing Emollient and Healing Medicaments as an Inhalant and a Rubefacient for Relief of Colds and Congestion in the Head, Throat, and Chest.) No. 23,419; Sept. 13; v. 290; p. 431.
- Flynn Dairy Co. (See Menasha Printing and Carton Company, assignor.)
- Follett, Ida L., Berwyn, Pa. "Hester Price's Sweet Kum-kum Rings." (For Container of Preserved Cucumber Rings.) No. 22,803; Mar. 29; v. 284; p. 955.
- Forbes, W. S. & Co., Inc., assignor to F. E. Patrick-Young Company, Richmond, Va. "Lolly-Anna." (For Shortening.) No. 22,426; Jan. 25; v. 282; p. 739.
- Fort Howard Paper Company, Green Bay, Wis. "Colonial." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) No. 22,956; May 31; v. 286; p. 1057.
- Fort Howard Paper Company, Green Bay, Wis. "Japanese Crepe." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) No. 22,957; May 31; v. 286; p. 1057.
- Fort Howard Paper Company, Green Bay, Wis. "Quality." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) No. 22,958; May 31; v. 286; p. 1057.
- Fort Howard Paper Company, Green Bay, Wis. "Snowflake Crepe." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) No. 22,959; May 31; v. 286; p. 1057.
- Fort Howard Paper Company, Green Bay, Wis. "Cream of the Forest." (For Toilet Paper, Paper Napkins, Towels, and Table-Cloths.) No. 23,000; June 14; v. 287; p. 403.
- Fortune Products Company, Chicago, Ill. "Fortune." (For Egg-Noodles.) No. 23,354; Sept. 6; v. 290; p. 223.
- Foster, Dominique, Milwaukee, Wis. "Marmon." (For Cigars.) No. 23,456; Oct. 18.
- Fowler, Carl A., Kansas City, Mo. "No-Zo." (For Containers for an Antiseptic for Nose and Mouth.) No. 23,197; Aug. 23; v. 289; p. 796.
- Fowler Grape Growers Association, Fowler, Calif. "Canary." (For Fresh Malaga Grapes.) No. 22,622; Mar. 8; v. 284; p. 375.
- Fox, C. J., Company, The, Providence, R. I. "Hollandyke." (For Candy-Boxes.) No. 23,730; Dec. 13.
- Fox, C. J., Company, The, Providence, R. I. "White-wings." (For Candy-Boxes.) No. 23,731; Dec. 13.
- Frances Fox Laboratories, Inc., New York, N. Y. "Frances Fox Olive Soap For Hair & Skin." (For Soap.) No. 23,064; Nov. 22.
- Frank A. Weeks Mfg. Co., New York, N. Y. "Service Telephone Index." (For Indexed Blank Memorandum-Booklets to be Used as Telephone Memorandum-Records by Telephone Subscribers.) No. 23,169; Aug. 9; v. 289; p. 409.
- Frank & Company, Milwaukee, Wis. "Pimento-Roll." (For Meat Products.) No. 22,427; Jan. 25; v. 282; p. 739.
- Frank & Company, Milwaukee, Wis. "Pimento Sausage." (For Meat Products—Namely, Pimento Sausage.) No. 22,623; Mar. 8; v. 284; p. 375.
- Frankel, B., Co. Inc., The, New York, N. Y. "Sister Susie." (For Boxes, Packages, or Envelops Containing Hair-Nets.) No. 23,665; Nov. 22.
- Frankel, B., Company, Inc., The, New York, N. Y. "Lassie." (For Hair-Nets.) No. 23,591; Nov. 1.
- Frankel & Smith, Inc., Boston, Mass. "Professional." (For Hair-Nets.) No. 23,801; Dec. 20.
- Franklin Baker Company, The, Philadelphia, Pa. "Baker's Coconut." (For Packaged Coconut.) No. 22,960; May 31; v. 286; p. 1057.
- Frederick & Nelson, Seattle, Wash. "The Home-Made Box." (For Boxes Containing Chocolate Candies.) No. 23,592; Nov. 1.
- Fredrick, William, Monett, Mo. "La Fredrick." (For Cigars.) No. 23,534; Oct. 25.
- Free Brothers Company, Pittsburgh, Pa. "Washington Brand." (For Crates Containing Vegetables.) No. 22,899; May 24; v. 286; p. 860.
- Freeman Daughaday Co., Charley, Mass. "E-Z Collar Holder." (For Collar-Holders.) No. 22,688; Mar. 15; v. 284; p. 588.
- Freezer, J., & Son, New York, N. Y. "Traymore Shirt." (For Shirts.) No. 22,730; Mar. 22; v. 284; p. 753.
- Freiberg & Gorman, Brooklyn, N. Y. "Grand Aroma." (For Cigars.) No. 23,535; Oct. 25.
- Freihof, William, Philadelphia, Pa. "Butter-Krust." (For Bread.) No. 23,457; Oct. 18.
- Frick, Phillip S., Oswego, Kans. "Rat Fire." (For a Rat Poison.) No. 23,071; July 5; v. 288; p. 201.
- Fritsch & Son, Lancaster, Pa. "Beech Nut Cigar." (For Beech-Nut Cigars.) No. 23,847; Dec. 27.
- Froznpure Ice Cream Company Incorporated. (See Menasha Printing and Carton Company, assignors.)
- Fuente, A., & Company, Tampa, Fla. "Garcia Bouquet." (For Cigars.) No. 23,620; Nov. 8.)
- Fulton Specialty Co., Elizabeth, N. J. "The Wizard." (For Educational Games and Toys.) No. 23,458; Oct. 18.
- Furman, Paul, Lynn, Mass. "Superior Violet Ink." (For Writing and Copying Ink.) No. 22,865; May 3; v. 286; p. 197.
- Furnish, Richard D., Boston, Mass. "F C L." (For Labels Applied to Containers for a Mange and Dandruff Remedy.) No. 23,355; Sept. 6; v. 290; p. 223.
- Fussell-Young Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
- Gale-Evans Company, Minneapolis, Minn. "Savo for the Laundry." (For a Washing-Powder.) No. 22,731; Mar. 22; v. 284; p. 753.
- Gambichler, Eugene, Brooklyn, N. Y. "Magic Salve." (For Salve for Rheumatism and Inflammatory Troubles.) No. 23,459; Oct. 18.
- Garden Chemical Co., Inc., New York, N. Y. "Melrosine." (For Insecticides for the Destruction of Rose-Bugs.) No. 23,126; July 26; v. 288; p. 827.
- Garden City Canning Co., Philadelphia, Pa. "Home Like Dinners." (For Lamb Stew.) No. 22,467; Feb. 1; v. 283; p. 178.
- Gary, Theo H., Co., New York, N. Y. "Unicrim Real Human Hair Nets." (For Hair-Nets.) No. 23,666; Nov. 22.
- Gaynor Manufacturing Company, The, Bridgeport, Conn. "The Gaynor Light Control." (For Electric-Light-Control Switches.) No. 23,282; Aug. 30; v. 289; p. 1019.
- Geiershofer, Henry Clothing Company, The, Cincinnati, Ohio. "Guaranteed Clothes." (For Men's and Youths' Clothing.) No. 22,737; Mar. 22; v. 284; p. 753.
- Geisel, Christoph J., Mansfield, Ohio. "Egg Puffets." (For Breakfast Food.) No. 23,848; Dec. 27.
- Gem Safety Razor Corporation, Brooklyn, N. Y. "Soft as a Kiss." (For Safety-Razors.) No. 22,536; Feb. 8; v. 283; p. 361.
- Gem Specialty Razor Corporation, Brooklyn, N. Y. "Double Life." (For Safety-Razors and Safety-Razor Blades.) No. 23,460; Oct. 18.
- General Candy Co., Milwaukee, Wis. "General." (For Candy.) No. 22,468; Feb. 1; v. 283; p. 178.
- General Candy Co., Milwaukee, Wis. "General Nut." (For Nut Candies.) No. 22,624; Mar. 8; v. 284; p. 375.
- George, F. H., & Company. (See Menasha Printing and Carton Company, assignor.)
- Gessner, Thomas F., Hammond, La. "Quality First Louisiana Brand Klondykes." (For Strawberries.) No. 23,198; Aug. 23; v. 289; p. 796.
- Geyer, Edgar, Silver Creek, Nebr. "Geyer's Detachable Swinging Wash-Boiler Apron." (For Detachable Swinging Wash-Boiler-Apron.) No. 23,732; Dec. 13.
- Gibbs & Co., Chicago, Ill. "Margie Cap Net." (For Hair-Nets.) No. 23,356; Sept. 6; v. 290; p. 223.
- Gibbs & Co., Chicago, Ill. "Charlotte Fringe Net." (For Hair-Nets.) Nos. 23,357-8; Sept. 6; v. 290; p. 223.
- Gibbs & Company, Chicago, Ill. "Charlotte Fringe Hair Nets." (For Hair-Nets.) No. 22,689; Mar. 15; v. 284; p. 588.
- Gibbs & Company, Chicago, Ill. "Irresistible Cap Net." (For Hair-Nets.) No. 22,690; Mar. 15; v. 284; p. 588.
- Gibbs & Company, Chicago, Ill. "Charlotte Cap Net." (For Hair-Nets.) No. 22,691; Mar. 15; v. 284; p. 588.
- Gibbs & Company, Chicago, Ill. "Fascination Fringe Hair Nets." (For Hair-Nets.) No. 22,692; Mar. 15; v. 284; p. 588.
- Gilbert Paper Co., Menasha, Wis. "Lancaster, the Aristocrat of Bonds." (For Bond-Paper.) No. 22,537; Feb. 8; v. 283; p. 361.
- Gillen & Boney, Lincoln, Nebr. "Gillen's Malted Milk Chocolate and Toasted Almonds." (For Candy.) No. 23,199; Aug. 23; v. 289; p. 796.
- Gillet, Fred C., St. Paul, Minn. "C-O-D." (For Packages Containing Toasted Cereal.) No. 23,536; Oct. 25.
- Gilmer, L. H., Company, Philadelphia, Pa. "Gilmer Woven Endless Fan Belts." (For Fan-Belts.) No. 23,072; July 5; v. 288; p. 201.
- Gilmer, L. H., Company, Philadelphia, Pa. "Gilmer Woven Endless Ford Fan Belts." (For Fan-Belts.) No. 23,073; July 5; v. 288; p. 201.
- Gilmer, L. H., Company, Philadelphia, Pa. "Gilmer Woven Endless Ford Fan Belts." (For Fan-Belts.) No. 23,074; July 5; v. 288; p. 201.
- Gilmer, L. H., Company, Philadelphia, Pa. "Gilmer Woven Endless Fan Belts for Tractors." (For Fan-Belts.) No. 23,075; July 5; v. 288; p. 201.
- Gilmer, L. H., Company, Philadelphia, Pa. "Gilmer Woven Endless Fan Belts for Trucks." (For Fan-Belts.) No. 23,076; July 5; v. 288; p. 201.
- Gilmers Incorporated, Winston-Salem, N. C. "Red Diamond." (For Cans Containing Tomatoes.) No. 22,732; Mar. 22; v. 284; p. 753.
- Ginsco Chemical Company, St. Joseph, Mo. "Ginsos Marshmallow Dental Cream." (For a Dental Cream.) No. 22,804; Mar. 29; v. 284; p. 955.



- Ginsco Chemical Company, St. Joseph, Mo. "Ginsos Electrofied Chlorine." (For an Electrofied Chlorine for Medical, Surgical, and Hospital Purposes.) No. 22,866; May 3; v. 286; p. 197.
- Glemby, S., Inc., New York, N. Y. "Lovelee Hair Net." (For Hair-Nets.) No. 23,285; Aug. 30; v. 289; p. 1019.
- Glemby, S., Inc., New York, N. Y. "Lorraine Hair Net." (For Hair-Nets.) No. 23,286; Aug. 30; v. 289; p. 1019.
- Glemby, S., Inc., New York, N. Y. "Regina Hair Net." (For Hair-Nets.) No. 23,287; Aug. 30; v. 289; p. 1019.
- Glemby, S., Inc., New York, N. Y. "Jean the Superior Hair Net." (For Hair-Nets.) No. 23,288; Aug. 30; v. 289; p. 1019.
- Glemby's, S. Sons Co., Inc., New York, N. Y. "Glemby Hair Net." (For Hair-Nets.) No. 23,283; Aug. 30; v. 289; p. 1019.
- Glemby's, S. Sons Co., Inc., New York, N. Y. "Samsonet. the Strength is in the Hair." (For Hair-Nets.) No. 23,284; Aug. 30; v. 289; p. 1019.
- Glemby's, S. Sons Co., Inc., New York, N. Y. "Regina Hair Net." (For Hair-Nets.) No. 23,461; Oct. 18.
- Globe Bottling & Sales Co. "Arrow." (For a Cereal Malt Beverage.) No. 23,359; Sept. 6; v. 290; p. 223.
- Globe Cotton Oil Mills, Los Angeles, Calif. "A-1" "Brisq." (For Vegetable Compound for Shortening and Cooking Purposes.) No. 22,733; Mar. 22; v. 284; p. 753.
- Globe Grain & Milling Company, Los Angeles, Calif. "Globe A-1." (For Flour.) No. 22,538; Feb. 8; v. 283; p. 361.
- Globe Grain & Milling Company, Los Angeles, Calif. "Red Mark." (For Macaroni.) No. 22,539; Feb. 8; v. 283; p. 361.
- Globe Grain & Milling Company, Los Angeles, Calif. "Globe A1." (For Baby-Pig Feed.) No. 23,462; Oct. 18.
- Godfrey S. Mahn, New York, N. Y. "Coeur Du Roi." (For Cigars.) No. 22,805; Mar. 29; v. 284; p. 955.
- Goeltz Confectionery Co., North Chicago, Ill. "Butter Sweet Corn." (For Confections.) No. 23,593; Nov. 1.
- Goff, S. B., & Sons Company, Camden, N. J. "Goff's Atlantic City Salt Water Taffy." (For Salt-Water Taffy.) No. 22,867; May 3; v. 286; p. 197.
- Goldschmid, Edw., & Louis Lehman, Brooklyn, N. Y. "Red Seal Brand." (For Malt-Extract Syrup.) No. 22,961; May 31; v. 286; p. 1057.
- Goodwillie, D. M., Company, Chicago, Ill. "The Box That Stands the Knocks." (For Wooden Boxes.) No. 23,849; Dec. 27.
- Gordon Chocolate Co., The, Cincinnati, Ohio. "Gordon Milk and Chocolate Supreme." (For Chocolate Bars.) No. 23,127; July 26; v. 288; p. 827.
- Gordon Chocolate Company, The, Cincinnati, Ohio. "Chocolate Milk Sugar Only." (For Candy.) No. 23,128; July 26; v. 288; p. 827.
- Gordon Chocolate Company, The, Cincinnati, Ohio. "Better Blocks." (For Candy.) No. 23,129; July 26; v. 288; p. 827.
- Goudey Gum Co., The, Boston, Mass. "Goudey's Chocolate Fruited Gum." (For Chewing-Gum.) No. 22,806; Mar. 29; v. 284; p. 955.
- Gould Millinery Co., Inc., The, Los Angeles, Calif. "Princess Hats." (For Ladies' and Children's Hats.) No. 22,900; May 24; v. 286; p. 860.
- Gould Millinery Co., Inc., The, Los Angeles, Calif. "Le Chapeau Chic." (For Ladies' and Children's Hats.) No. 23,733; Dec. 13.
- Grady Mfg. Co., The. "Grada (Gradea)." (For Tile and Porcelain Cleaner.) No. 23,537; Oct. 25.
- Graf Bros. Inc., New York, N. Y. "Hyglo Hair Net." (For Hair-Nets.) No. 23,734; Dec. 13.
- Gray-Juergens Co., Cincinnati, Ohio. "Zem-Zem." (For Non-Alcoholic Beverages.) No. 22,962; May 31; v. 286; p. 1057.
- Green and Green Company, The, Dayton, Ohio. "Green & Green Cheez-It Crackers." (For Cartons in Which Cheese Crackers are Placed.) No. 23,804; Dec. 20.
- Green and Green Company, The, Cincinnati, Ohio. "A Baked Rarebit." (For Cheese-Crackers.) No. 23,850; Dec. 27.
- Green, William T., Summit, N. J. "Yeast." (For Tooth-Paste.) No. 22,734; Mar. 22; v. 284; p. 753.
- Greene, Tweed & Co., New York, N. Y. "Runwel." (For Twisted Packing for Valve-Stems.) No. 23,463; Oct. 18.
- Greensburg Baking Co. (See Menasha Printing and Carton Company, assignors.)
- Grennan Cake Corporation, Chicago, Ill. "Grennan's Golden Fudge." (For Cake.) No. 22,735; Mar. 22; v. 284; p. 753.
- Grennan Cake Corporation, Chicago, Ill.; Detroit, Mich.; and Cleveland, Lorain, Elyria, Toledo, and Akron, Ohio. "Don't Fret and Bake, Serve Grennan's Cake. Every Bite a Delight." (For Cake.) No. 22,807; Mar. 29; v. 284; p. 955.
- Grennan Cake Corporation, Detroit, Mich.; Cleveland, Lorain, Elyria, Toledo, Akron, Ohio; Minneapolis and St. Paul, Minn.; Chicago, Aurora, Elgin, Joliet, Ill., and Pittsburgh, Pa. "Grennan's Top Notch Oven Gold Cookies." (For Cookies.) No. 22,808; Mar. 29; v. 284; p. 955.
- Griffin Broom Company, The, Chanute, Kans. "Made-Right." (For Brooms.) No. 23,360; Sept. 6; v. 290; p. 223.
- Grigg, Charles L., St. Louis, Mo. "Howdy." (For Soft Drinks and Syrups and Flavorings Therefor.) No. 22,603; Mar. 1; v. 284; p. 180.
- Gronwohl, Joseph, New York, N. Y. "Ariel Standard." (For Golf-Balls.) No. 23,851; Dec. 27.
- Haeblerlein, Walter J., Camden, N. J. "Kreem Nut." (For Olcomargarin.) No. 23,420; Sept. 13; v. 290; p. 431.
- Hagan, Emma L., Swampscott, Mass. "Hagan's Mayonnaise Dressing." (For Mayonnaise Dressing.) No. 22,428; Jan. 25; v. 282; p. 739.
- Haggerty, T. E., and Son, San Francisco, Calif. "H-H." Barley and Hop Syrup. (For Syrup Made from Barley and Hops.) No. 22,540; Feb. 8; v. 283; p. 361.
- Hale, E. B., Lima, Ohio. "Hale's Phemazele." (For Medicine for Nervous Affections of Women.) No. 23,464; Oct. 18.
- Halstead Specialties Co., San Francisco, Calif. "Spring-Bez." (For Rust-Solvent Lubricant.) No. 23,465; Oct. 18.
- Hamersley Manufacturing Company, The, Garfield, N. J. "Butter Bread Bayer's Bakery." (For Bread.) No. 23,622; Nov. 8.
- Hannah, P. J., San Francisco, Calif. "Hannah's Tablets." (For Dyspepsia Tablets.) No. 23,802; Dec. 20.
- Harlan, O. A., & Co., San Jose, Calif. "Stanford." (For Dried Prunes.) No. 22,901; May 24; v. 286; p. 860.
- Harral Soap Co., Inc., Brooklyn, N. Y. "Harral's Concentrated Shampoo." (For Shampoo for the Hair.) No. 22,693; Mar. 15; v. 284; p. 588.
- Harriet Hubbard Ayer, New York, N. Y. "Liquid Nail Enamel." (For Enamel for the Nails.) No. 23,152; Aug. 9; v. 289; p. 409.
- Harriet Hubbard Ayer, New York, N. Y. "Ayeristocrat." (For Non-Greasy, Finishing, and Vanishing Cream.) No. 23,153; Aug. 9; v. 289; p. 409.
- Harriet Hubbard Ayer, New York, N. Y. "Skin & Tissue Builder." (For Preparations for the Skin and Tissues and Massage-Cream.) Nos. 23,154-5; Aug. 9; v. 289; p. 409.
- Harriet Hubbard Ayer, New York, N. Y. "Ayer's Face Cream." (For Face-Cream.) Nos. 23,156-7; Aug. 9; v. 289; p. 409.
- Harriet Hubbard Ayer, New York, N. Y. "Luxuria." (For Cosmetics.) No. 23,158; Aug. 9; v. 289; p. 409.
- Harriet Hubbard Ayer, New York, N. Y. "Coeur de Violette." (For Cerate.) No. 23,159; Aug. 9; v. 289; p. 409.
- Harriet Hubbard Ayer, New York, N. Y. "Lip Sticks." (For Rouge, Cream, or Healing Compounds in the Form of Sticks and for Application to the Lips.) No. 23,160; Aug. 9; v. 289; p. 409.
- Harriet Hubbard Ayer, New York, N. Y. "Cuticle Remover." (For Preparations for Removing Surplus Cuticle.) No. 23,161; Aug. 9; v. 289; p. 409.
- Harriet Hubbard Ayer, New York, N. Y. "Almond Honey Cucumber Lotion." (For Healing and Soothing Lotion for Use After Shaving, Also Upon Emollients for Whitening and Softening the Face, Neck, and Arms, and for Relieving Roughness, Chafing, Irritations, Windburn, Sunburn, and Chapped Skin or Lips.) No. 23,511; Oct. 25.
- Harriet Hubbard Ayer, New York, N. Y. "Rouge Compact 400." (For Rouge in the Form of Compacts.) No. 23,512; Oct. 25.
- Harriet Hubbard Ayer, New York, N. Y. "Eau de Beauté." (Water of Beauty.) (For Face-Astringents and Skin-Tighteners.) No. 23,513; Oct. 25.
- Harriet Hubbard Ayer, New York, N. Y. "Rouge Compact 200." (For Rouge in the Form of Compacts.) No. 23,514; Oct. 25.
- Harriet Hubbard Ayer, New York, N. Y. "Rouge Compact 300." (For Rouge in the Form of Compacts.) No. 23,515; Oct. 25.
- Harriet Hubbard Ayer, New York, N. Y. "Rouge Compact 500." (For Rouge in the Form of Compact.) No. 23,516; Oct. 25.
- Harriet Hubbard Ayer, New York, N. Y. "Rouge Compact 600." (For Rouge in the Form of Compacts.) No. 23,517; Oct. 25.
- Harriet Hubbard Ayer, New York, N. Y. "Harriet Hubbard Ayer." (For Toilet Cream, Toilet Powder, Rouges, Lotions, Enamels, Skin and Tissue Builders, Depilatories, Skin-Astringents, and Many other Toilet Preparations.) No. 23,518; Oct. 25.
- Hart, B., & Brother, San Francisco, Calif. "Bon Voyage." (For Silk Piece Goods.) No. 22,604; Mar. 1; v. 284; p. 180.
- Haskins Brothers & Company, Omaha, Nebr. "White Petrolene Soap." (For Soap.) No. 22,736; Mar. 22; v. 284; p. 753.
- Hathaway, C F., & Sons, North Cambridge, Mass. "Hathaway's Win-Sum Bread." (For Hathaway's Bread.) No. 22,470; Feb. 1; v. 283; p. 178.
- Haydon Company. (See Menasha Printing and Carton Company, assignors.)
- Hazleton Baking Company, Hazleton, Pa. "Krispy-Krust." (For Bread.) No. 22,392; Jan. 18; v. 282; p. 563.
- Heileman, G., Brewing Co., La Crosse, Wis. "Heileman's New Style Lager." (For Cereal Beverages.) No. 23,130; July 26; v. 288; p. 827.
- Heit Miller Lau Co., Fort Wayne, Ind. "He-Mi-La." (For Candy—Namely, Bar-Candy.) No. 23,466; Oct. 18.



## Alphabetical list of registrants of labels—Continued.

- Helt-Miller-Lau Company, Fort Wayne, Ind. "Mary Wayne." (For Candies.) No. 23,594; Nov. 1.
- Heller, B., & Co., Chicago, Ill. "Vanheller." (For Flavorings.) No. 22,471; Feb. 1; v. 283; p. 178.
- Heller, B., & Co., Chicago, Ill. "Heller's Enamel Cleaner." (For Cans Containing Heller's Enamel-Cleaner.) No. 22,809; Mar. 29; v. 284; p. 955.
- Heller, B., & Co., Chicago, Ill. "Toes-Up." (For Bottles Containing Toes-Up, A Fly-Destroyer.) No. 22,810; Mar. 29; v. 284; p. 955.
- Heller, B., & Co., Chicago, Ill. "Heller's Fancy-Pastry Pudding." (For Paper Cartons Containing Heller's Fancy Pastry Pudding.) No. 22,811; Mar. 29; v. 284; p. 955.
- Heller, B., & Co., Chicago, Ill. "Freeze-Em Pickle." (For Cartons Containing Freeze-Em Pickle, a Meat-Curing Preparation.) No. 22,902; May 24; v. 286; p. 860.
- Heller, B., & Co., Chicago, Ill. "'A' Condimentine." (For Cartons Containing "A" Condimentine, a Preparation for Use in Sausage and Sausage-Meat.) No. 22,903; May 24; v. 286; p. 860.
- Heller, B., & Co., Chicago, Ill. "'B' Condimentine." (For Cartons Containing "B" Condimentine, a Preparation for Use in Sausage and Sausage-Meat.) No. 22,904; May 24; v. 286; p. 860.
- Heller, B., & Co., Chicago, Ill. "Heller's Silver Shine." (For Cartons Containing Heller's Silver Shine, a Dry Powder Polish.) No. 22,905; May 24; v. 286; p. 860.
- Heller, B., & Co., Chicago, Ill. "Vacuum-Brand Garlic Compound." (For Cans Containing Vacuum Brand Garlic Compound, a Seasoning Product.) No. 22,906; May 24; v. 286; p. 860.
- Heller, B., & Co., Chicago, Ill. "Freeze-Em." (For Cans and Bottles Containing Freeze-Em, a Preparation for Cleaning Butchers' Utensils.) No. 22,907; May 24; v. 286; p. 860.
- Heller, B., & Co., Chicago, Ill. "B. Heller & Co's Hog-Scald." (For Cans Containing a Preparation Used for Scalding and Cleaning Hogs.) No. 22,963; May 31; v. 286; p. 1057.
- Heller, B., & Co., Chicago, Ill. "Zanzibar-Carbon Brand Casing Yellow Mixture." (For Cans Containing a Preparation for Coloring the Outside of Liver-Sausage Casings.) No. 22,964; May 31; v. 286; p. 1037.
- Heller, B., & Co., Chicago, Ill. "Zanzibar-Carbon Brand Casing Brown Mixture." (For a Preparation for Coloring the Outside of Smoked-Sausage Casings.) No. 22,965; May 31; v. 286; p. 1057.
- Heller, B., & Co., Chicago, Ill. "B. Heller & Co's Lard Purifier." (For Cartons Containing B. Heller & Co's Lard and Tallow Purifier.) No. 22,966; May 31; v. 286; p. 1057.
- Heller, B., & Co., Chicago, Ill. "Meloine." (For Receptacles Containing Meloine, a Preparation Used in the Manufacture of Ice-Cream.) No. 23,001; June 14; v. 287; p. 403.
- Heller, B., & Co., Chicago, Ill. "Cold-Storine." (For Cartons Containing Cold-Storine, a Preparation for Keeping Meat Products.) No. 23,002; June 14; v. 287; p. 403.
- Heller, B., & Co., Chicago, Ill. "Royal Metal Polish." (For Cans Containing Royal Metal Polish.) No. 23,022; June 21; v. 287; p. 592.
- Heller, B., & Co., Chicago, Ill. "Ozo Toilet Cleaner." (For Receptacles Containing Ozo Toilet Cleaner, a Preparation for Cleaning Closet-Bowls.) No. 23,023; June 21; v. 287; p. 592.
- Heller, B., & Co., Chicago, Ill. "Royal Marble Cleaner." (For Cans Containing Royal Marble-Cleaner.) No. 23,029; June 28; v. 287; p. 783.
- Heller, B., & Co., Chicago, Ill. "\$1 000 00 Guaranteed Roach Killer." (For Cartons Containing Cans of a Roach-Killer.) No. 23,077; July 5; v. 288; p. 201.
- Heller, B., & Co., Chicago, Ill. "Aseptifume." (For a Preparation Used to Destroy Obnoxious Odors and for Purifying the Air in Coolers, Rendering-Rooms, and Hide-Rooms.) No. 23,078; July 5; v. 288; p. 201.
- Heller, B., & Co., Chicago, Ill. "Heller's Sanitary Fluid." (For Containers Holding Heller's Sanitary Fluid, a Germicidal and Antiseptic Preparation.) No. 23,079; July 5; v. 288; p. 201.
- Heller, B., & Co., Chicago, Ill. "\$1 000 00 Guaranteed Rat and Mice Killer." (For Cans Containing a Guaranteed Rat and Mice Killer.) No. 23,131; July 26; v. 288; p. 827.
- Heller, B., & Co., Chicago, Ill. "\$1 000 00 Guaranteed Ant-Bane." (For Cans Containing Guaranteed Ant-Killer.) No. 23,132; July 26; v. 288; p. 827.
- Heller, B., & Co., Chicago, Ill. "\$1 000 00 Guaranteed Roach Killer." (For Cans Containing a Guaranteed Roach-Killer.) No. 23,133; July 26; v. 288; p. 827.
- Heller, B., & Co., Chicago, Ill. "Deodorine." (For Receptacles Containing Deodorine.) No. 23,134; July 26; v. 288; p. 827.
- Heller, B., & Co., Chicago, Ill. "I-X-L." (For Receptacles Containing I-X-L, a Cleansing Preparation.) No. 23,135; July 26; v. 288; p. 827.
- Heller, B., & Co., Chicago, Ill. "Snow." (For Receptacles Containing Snow, a Preparation for Use in the Manufacture of Ice-Cream.) No. 23,136; July 26; v. 288; p. 827.
- Heller, B., & Co., Chicago, Ill. "Varn-I-Glo." (For Cans Containing Varn-I-Glo, a Furniture-Polish.) No. 23,137; July 26; v. 288; p. 827.
- Heller, B., & Co., Chicago, Ill. "\$1 000 00 Guaranteed Bed Bug Killer." (For Cans Containing Bedbug-Killer.) No. 23,200; Aug. 23; v. 289; p. 796.
- Heller, B., & Co., Chicago, Ill. "Konservirungs-Salt." (For a Preparation for Curing Meat, Fish, Fowl, and Game.) No. 23,201; Aug. 23; v. 289; p. 796.
- Heller, B., & Co., Chicago, Ill. "Heller's Fancy Pastry Baking Powder." (For Receptacles Containing Heller's Fancy Pastry Baking-Powder.) No. 23,202; Aug. 23; v. 289; p. 796.
- Heller, B., & Co., Chicago, Ill. "Zanzibar-Brand Cattle and Sheep Dip." (For a Preparation for Dipping Cattle and Sheep.) No. 23,203; Aug. 23; v. 289; p. 796.
- Heller, B., & Co., Chicago, Ill. "White Swan Washing Powder." (For a Preparation for Scrubbing and Cleaning Purposes.) No. 23,204; Aug. 23; v. 289; p. 796.
- Heller, B., & Co., Chicago, Ill. "Candy Maker's Friend." (For a Flavoring Compound.) No. 23,205; Aug. 23; v. 289; p. 796.
- Heller, B., & Co., Chicago, Ill. "Janzibarine." (For a Preparation for Coloring Ham and Sausage Strings.) No. 23,289; Aug. 30; v. 289; p. 1019.
- Heller, B., & Co., Chicago, Ill. "Bakers' Friend." (For Containers Holding Bakers' Friend, a Flavoring Compound.) No. 23,290; Aug. 30; v. 289; p. 1019.
- Heller, B., & Co., Chicago, Ill. "Lemon-Zest." (For Containers Holding Lemon-Zest, a Lemon Flavoring Compound.) No. 23,291; Aug. 30; v. 289; p. 1019.
- Heller, B., & Co., Chicago, Ill. "Auto Glo." (For Containers Holding Auto Glo, a Polish for Automobile Bodies and All Highly-Finished Surfaces.) No. 23,292; Aug. 30; v. 289; p. 1020.
- Heller, B., & Co., Chicago, Ill. "Heller's Van-Boquet." (For Containers Holding Heller's Van-Boquet, a Flavoring Preparation for Ice-Cream, Confectionery, Candy, and Pastry.) No. 23,293; Aug. 30; v. 289; p. 1020.
- Heller, B., & Co., Chicago, Ill. "\$1000.00 Guaranteed Bed Bug Killer." (For Insecticide for Destroying Bedbugs, Mites, Ticks, Poultry-Lice, Ants, and other Insects.) No. 23,294; Aug. 30; v. 289; p. 1020.
- Heller, B., & Co., Chicago, Ill. "Golden-Hen." (For Boxes, Kegs, and Barrels Containing Golden-Hen, a Diluted Mixture of Certified Colors.) No. 23,467; Oct. 18.
- Heller, B., & Co., Chicago, Ill. "Zanzibar-Brand Fly Chaser." (For Containers Holding Zanzibar-Brand Fly-Chaser, a Preparation for Chasing Flies from Cattle, Horses, Dogs, and Animal-Quarters.) No. 23,468; Oct. 18.
- Heller, B., & Co., Chicago, Ill. "Ozo Washing Powder." (For Receptacles Containing Ozo Washing-Powder.) No. 23,803; Dec. 20.
- Henning Wennersten Incorporated, Chicago, Ill. "Berg's Best." (For Malt Extracts.) No. 23,361; Sept. 6; v. 290; p. 223.
- Henschel, A. C., & Company, Chicago, Ill. "John Baldwin." (For Cigars.) No. 22,812; Mar. 29; v. 284; p. 955.
- Henschel, A. C., & Company, Chicago, Ill. "Van Sant." (For Cigars.) No. 22,813; Mar. 29; v. 284; p. 955.
- Henschel, A. C., & Company, Chicago, Ill. "Robert Vernon." (For Cigars.) No. 22,814; Mar. 29; v. 284; p. 955.
- Henschel, A. C., & Co., Chicago, Ill. "Beleena." (For Cigars.) No. 23,030; June 28; v. 287; p. 783.
- Henschel, A. C., & Company, Chicago, Ill. "La Valeta." (For Cigars.) No. 23,031; June 28; v. 287; p. 783.
- Henschel, C. B., Manufacturing Company, Milwaukee, Wis. "Sonora." (For Cigars.) No. 23,538; Oct. 25.
- Herman, Henry, Mitchell, S. D. "The Palace Cigar." (For Cigars.) No. 23,295; Aug. 30; v. 289; p. 1020.
- Herpicide Company, The, Detroit, Mich. "A Delightful Hair Dressing." (For the Treatment of Dandruff and Itching Scalp.) No. 23,115; July 12; v. 288; p. 430.
- Herpicide Company, The, Detroit, Mich. "A Delightful Hair Dressing." (For the Treatment of Dandruff and Itching Scalp.) No. 23,116; July 12; v. 288; p. 430.
- Herrmann, Aukam & Co., New York, N. Y. "Piccadilly." (For Handkerchiefs.) No. 22,738; Mar. 22; v. 284; p. 753.
- Hershey Creamery Company. (See Menasha Printing and Carton Company, assignor.)
- Herzog, Moses, New York, N. Y. "Jannetta." (For Hair-Nets.) No. 23,362; Sept. 6; v. 290; p. 223.
- Hickey, Delmer Brooke, Chanute, Kans. "D. B. Hickey's Healing Liquid." (For Containers for a Remedy for Cuts and Sores of All Kinds.) No. 23,539; Oct. 25.
- High-Test Malt Extract Co., Chicago, Ill. "High Test No-Boil Malt Extract." (For Cans Containing Liquid Malt Extract.) No. 23,540; Oct. 25.
- Hill, Clark & Co., Chicago, Ill. "Re Manufactured Machine Tools." (For Remanufactured Machines, Tools, and Parts Thereof.) No. 22,868; May 3; v. 286; p. 197.
- Hill, Clark & Co., Chicago, Ill. "Machinery Merchants." (For Machinery, Tools, and Parts Thereof.) No. 22,869; May 3; v. 286; p. 197.
- Hill, Robert, Buffalo, N. Y. "Wink the Drink." (For Non-Alcoholic Maltless Beverages.) No. 23,852; Dec. 27.
- Hill-Weppner Company, The. (See Menasha Printing and Carton Company, assignors.)



- Hirsch, Walter J., Company, Chicago, Ill. "Peanut Kake." (For Candy.) No. 23,363; Sept. 6; v. 290; p. 223.
- Hitzl, Carl, Parlier, Calif. "Lacjac." (For Cornichon Grapes.) No. 22,625; Mar. 8; v. 284; p. 375.
- Hochschild Corporation, Chicago, Ill. "Wearbest." (For Hair-Nets.) No. 23,805; Dec. 20.
- Hoefler, Harry, Candy Company, San Francisco, Calif. "Harry's Chocolate." (For Packages, Containers, or Boxes for Containing the Confection.) No. 23,667; Nov. 22.
- Hoefner, A., & Sons, Buffalo, N. Y. "White Naphtha Borax Soap." (For Soap.) No. 23,138; July 26; v. 288; p. 827.
- Hoefner, A., & Sons, Buffalo, N. Y. "Silver Gloss Laundry Soap." (For Soap.) No. 23,364; Sept. 6; v. 290; p. 223.
- Hoffman Candy Co., Cleveland, Ohio. "Fluff-O-Lite." (For a Wrapper Inclosing Candy.) No. 22,908; May 24; v. 286; p. 860.
- Hoffman, Martin M., Oakland, Calif. "Peanut Andy." (For Peanut Candy.) No. 23,595; Nov. 1.
- Hofstra Manufacturing Company, Tulsa, Okla. "Hofstra—The National Insecticide." (For Insecticide.) No. 22,429; Jan. 25; v. 282; p. 739.
- Hofstra Manufacturing Company, Tulsa, Okla. "Bugs Breathe It and Die." (For Insecticide.) No. 22,430; Jan. 25; v. 282; p. 739.
- Hofstra Manufacturing Company, Tulsa, Okla. "Harmless to Humans—Fatal to Bugs." (For Insecticide.) No. 22,431; Jan. 25; v. 282; p. 739.
- Hohlweck Candy Co., Milwaukee, Wis. "The Home of Cinnamon Balls." (For Hard Candies, Such as Cinnamon-Balls, Butter-Balls, Fruit-Tablets, &c.) No. 22,694; Mar. 15; v. 284; p. 588.
- Holeproof Hosiery Co., Milwaukee, Wis. "With All Good Wishes." (For Hosiery.) No. 23,735; Dec. 13.
- Hollis, Adolph, Brooklyn, N. Y. "Hollis' Diamond Brand Malt Syrup." (For Glass Bottles, Cans, Tins, and other Receptacles Containing Malt-Syrup.) No. 23,003; June 14; v. 287; p. 403.
- Home Products, Inc., Rahway, N. J. "Egg-Saver." (For a Solution of Sodium Silicate.) No. 23,139; July 26; v. 288; p. 827.
- Hopper, B., Kalamazoo, Mich. "Flora Linen." (For Stationery, Tablets, Pound-Paper, and Envelops.) No. 23,206; Aug. 23; v. 289; p. 796.
- Hopper, B., Kalamazoo, Mich. "Vista Linen." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) No. 23,541; Oct. 25.
- Hopper, B., Kalamazoo, Mich. "French Poplin." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) No. 23,542; Oct. 25.
- Hopper, B., Kalamazoo, Mich. "Winona Linen." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) No. 23,543; Oct. 25.
- Hopper, B., Kalamazoo, Mich. "Hopper's True Linen." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) No. 23,544; Oct. 25.
- Hopper, B., Kalamazoo, Mich. "Hopper's True Linen Pastel Gray." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) No. 23,545; Oct. 25.
- Hopper, B., Kalamazoo, Mich. "French Kid Plate Marked." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) No. 23,546; Oct. 25.
- Horne & Bowey Company, Chicago, Ill. "Bowey's." (For Flavoring Extracts, Sugar Color, Crushed Fruits, and Fruit-Stocks.) No. 22,739; Mar. 22; v. 284; p. 753.
- Household Products Company, Detroit, Mich. "Snowwhite." (For Clothing, Walls, Woodwork, &c., for Cleaning Purposes.) No. 23,004; June 14; v. 287; p. 403.
- Howard, Percy H., Cambridge, Mass. "Shurdone." (For Cake-Testing Straws.) No. 23,623; Nov. 8.
- Hunter, (Miss) Emma D., Clinton, N. Y. "Miss Hunter's Fruit Nut Chocolates." (For Candy.) No. 23,547; Oct. 25.
- Hurwitz, Frank, Baltimore, Md. "Moon Girl." (For Butter.) No. 22,740; Mar. 22; v. 284; p. 753.
- Hygeia Ice Cream Company. (See Menasha Printing and Carton Company, assignors.)
- Hymes, Abraham, New York, N. Y. "Y. D. C." (For Yarn.) No. 22,967; May 31; v. 286; p. 1057.
- Hymson, Charles E., Louisville, Ky. "Crane." (For Overalls.) No. 23,296; Aug. 30; v. 289; p. 1020.
- Illaria Bros., Newark, N. J. "Atropadine." (For a Preparation for the Treatment of Chronic Rheumatism, Lymphatic Enlargements, Burns, Lumbago, Frost Bites, Sprains, Eczema, and Scatica.) No. 22,968; May 31; v. 286; p. 1057.
- Illaria Bros., Newark, N. J. "Dentolene." (For a Preparation for the Treatment of Pyorrhea Alveolaris, Spongy, Bleeding, or Receding Gums, and for an Oral Prophylactic or Mouth-Wash.) No. 23,469; Oct. 18.
- Illaria Brothers, Newark, N. J. "Cami-Phor." (For a Preparation for the Treatment of Headaches, Intercostal Neuralgia, Sciatica, Chronic Muscular Rheumatism, Rheumatic Fever, Influenza or La Grippe, and Painful Neuritis.) No. 22,626; Mar. 8; v. 284; p. 375.
- Illaria Brothers, Newark, N. J. "Liquid Hydrastone." (For Preparation for the Treatment of Uterine Diseases.) No. 22,815; Mar. 29; v. 284; p. 955.
- Illaria Brothers, Newark, N. J. "Terpo Mentholene Comp." (For Treatment of Tuberculosis, Bronchial, Reflex Nervous Coughs, Whooping Cough, Asthma and Emphysema.) No. 22,816; Mar. 29; v. 284; p. 955.
- Imperial Candy Co., Seattle, Wash. "Brownie Scotch Toffee." (For Scotch Toffee.) No. 23,668; Nov. 22.
- Imperial Perfume Co., New York, N. Y. "Brioline for Dressing the Hair." (For Liquid Hair-Dressers.) No. 23,736; Dec. 13.
- Independent Breweries Company, The, St. Louis, Mo. "I. B. Co." (For Root-Beer.) No. 23,624; Nov. 8.
- Inderrieden Canning Co., Chicago, Ill. "Red Cedar." (For Canned Peas.) No. 23,625; Nov. 8.
- Inderrieden Canning Co., Chicago, Ill. "Old Abe." (For Canned Peas.) No. 23,626; Nov. 8.
- Inderrieden Canning Co., Chicago, Ill. "King Fisher." (For Canned Peas.) No. 23,627; Nov. 8.
- Inderrieden Canning Co., Chicago, Ill. "Jockey Club." (For Canned Peas.) No. 23,628; Nov. 8.
- Inderrieden Canning Co., Chicago, Ill. "Angler." (For Canned Peas.) No. 23,629; Nov. 8.
- Inderrieden Canning Co., Chicago, Ill. "Pewaukee Lake." (For Canned Peas.) No. 23,669; Nov. 22.
- Inderrieden Canning Co., Chicago, Ill. "Menu." (For Canned Peas.) No. 23,670; Nov. 22.
- Inderrieden Canning Co., Chicago, Ill. "High-Life." (For Canned Peas.) No. 23,671; Nov. 22.
- Inderrieden Canning Co., Chicago, Ill. "Wireless." (For Canned Peas.) No. 23,672; Nov. 22.
- Inderrieden Canning Co., Chicago, Ill. "Marcella." (For Canned Peas.) No. 23,737; Dec. 13.
- Indiana Condensed Milk Company, Indianapolis, Ind. "Nu-tro." (For a Compound of Skimmed Milk and Coconut-Fats.) No. 22,817; Mar. 29; v. 284; p. 955.
- International Consolidated Chemical Corp., New York, N. Y. "Hierro Nuxado, English Equivalent (Nuxated Iron)." (For a Tonic.) No. 22,741; Mar. 22; v. 284; p. 753.
- International Consolidated Chemical Corporation, Inc., New York, N. Y. "Santonex Compacted Face Powder." (For Receptacles and Packages Containing Compacted Face-Powder.) No. 23,208; Aug. 23; v. 289; p. 796.
- International Consolidated Chemical Corporation, Inc., New York, N. Y. "Savon de Toilette Tokalon." (For Receptacles and Packages Containing Toilet Soap.) No. 23,209; Aug. 23; v. 289; p. 797.
- International Consolidated Chemical Corp., Inc., New York, N. Y. "Tokalon Eyebrow Pencil." (For Receptacles and Packages Containing Eyebrow-Pencils.) No. 23,470; Oct. 18.
- International Consolidated Chemical Corp., Inc., New York, N. Y. "Crème Tokalon." (For Receptacles and Packages Containing Toilet Cream.) No. 23,471; Oct. 18.
- International Consolidated Chemical Corporation, Inc., New York, N. Y. "Tokalon Lip Rouge." (For Receptacles and Packages Containing Deep and Light-Colored Lip-Rouges, Known in the Trade as Ponce and Clair, Respectively.) No. 23,673; Nov. 22.
- International Dry Milk Co., Minneapolis, Minn. "Cream-On." (For Powdered Milk.) No. 23,738; Dec. 13.
- International Packing Corporation, Los Angeles, Calif. "Security Brand." (For Canned Tuna Fish.) No. 22,605; Mar. 1; v. 284; p. 180.
- International Packing Corporation, Los Angeles, Calif. "Catalina Brand." (For Canned Tuna Fish.) No. 23,472; Oct. 18.
- International Refining Company, San Antonio, Tex. "Apple Brand Shortening." (For a Compound of Choice Cotton-Seed Oil and Vegetable Stearin for Cooking Purposes.) No. 23,365; Sept. 6; v. 290; p. 223.
- Interstate Products Co., Chicago, Ill. "Temptation Wine Grape Juice." (For Containers for Grape-Juice.) No. 23,207; Aug. 23; v. 289; p. 796.
- Irish, Frank C., New York, N. Y. "Mad." (For Nail-Polish.) No. 22,969; May 31; v. 286; p. 1057.
- Iroquois Beverage Corporation, Buffalo, N. Y. "Iroquois Indian Head." (For Non-Alcoholic Beverages.) No. 22,472; Feb. 1; v. 283; p. 178.
- Iroquois Beverage Corporation, Buffalo, N. Y. "Indian Head." (For Non-Intoxicating Beverage.) No. 22,627; Mar. 8; v. 284; p. 375.
- Iroquois Beverage Corporation, Buffalo, N. Y. "Iroquois." (For Beverages Containing Not to Exceed One-Half of One Per Cent. of Alcohol, by Volume.) No. 22,695; Mar. 15; v. 284; p. 588.
- Italian Food Products Company, Inc., Los Angeles, Calif. "Red Bar." (For Concentrated Tomato Paste.) No. 22,628; Mar. 8; v. 284; p. 375.
- Jackson Auto Radiator Co., Chicago, Ill. "Jackson Core." (For Automobile-Radiator Cores.) No. 23,080; July 5; v. 288; p. 201.
- Jackson Brewing Company, New Orleans, La. "Jackson Lager Beer." (For Lager-Beer.) No. 22,909; May 24; v. 286; p. 860.
- Jaekel, Fred, Wauwatosa, Wis. "Jaekel's Herb Remedy." (For Medicinal Remedies Made of Herbs.) No. 22,818; Mar. 29; v. 284; p. 955.
- Jeone, H., Co., Los Angeles, Calif. "Look for the Gingham Package." (For Biscuit-Flour.) No. 23,548; Oct. 25.
- Jersey Ice Cream Company. (See Menasha Printing and Carton Company, assignors.)
- Jevne, H., Co., Los Angeles, Calif. "Jevne's Pure Sugar Sticks for the Kiddies." (For Stick-Candy.) No. 22,742; Mar. 22; v. 284; p. 753.
- Jevne, H., Co., Los Angeles, Calif. "Ensemble." (For Chocolates.) No. 23,630; Nov. 8.



## Alphabetical list of registrants of labels—Continued.

- Jiffy Dessert Company**, Waukesha, Wis. "Jiffy-Pie." (For Cartons Containing a Mixture for Making Pie, Custard, Pudding and Cake-Filling.) No. 23,032; June 28; v. 287; p. 783.
- Joekel, George W.**, Baltimore, Md. "Alpha Automobile Polish." (For Bottles Containing a Polish for Automobiles.) No. 23,596; Nov. 1.
- John Graf Co.**, Milwaukee, Wis. "Avon More." (For a Lime Drink.) No. 22,469; Feb. 1; v. 283; p. 178.
- Johnson-Earl Meyers Co.**, Pittsburgh, Pa. "Cup and Saucer." (For Coffee.) No. 23,739; Dec. 13.
- Johnson, Fred, De Ridder, La.** "Johnson's Southern Home Bread." (For Wrappers for Loaves of Bread.) No. 22,910; May 24; v. 286; p. 860.
- Johnston, Horace B.**, Shepherd, Mich. "Jack's Fly Chaser and Liquid Louse Killer." (For a Preparation for Exterminating Flies and Lice from Animals and Poultry.) No. 22,629; Mar. 8; v. 284; p. 375.
- Johnstown Sanitary Dairy Company.** (See Menasha Printing and Carton Company, assignors.)
- Jordan Marsh Company**, Boston, Mass. "Avona Blankets." (For Blankets.) No. 22,393; Jan. 18; v. 282; p. 563.
- Jordan Marsh Company**, Boston, Mass. "Avona Sheets." (For Sheets.) No. 22,394; Jan. 18; v. 282; p. 563.
- Juan & McCormack**, New York, N. Y. "Pureza." (For Condensed Milk.) No. 23,117; July 12; v. 288; p. 430.
- Kaffee Hag Corporation**, Cleveland, Ohio. "Kaffee Hag." (For Coffee.) No. 22,819; Mar. 29; v. 284; p. 955.
- Kanto Company, The.**, Canton, Ohio. "Kanto." (For Packages Containing a Remedy for Leucorrhea.) No. 23,297; Aug. 30; v. 289; p. 1020.
- Kantor, Max Elibu**, New York, N. Y. "Rusalka 'Queen of the Seas'." (For Hair-Net Envelops.) No. 23,631; Nov. 8.
- Kasper, A. J. Company**, Chicago Ill. "Old Style." (For Coffee.) No. 22,606; Mar. 1; v. 284; p. 180.
- Kaufman-Cutler Bakery Co.** (See Menasha Printing and Carton Company, assignor.)
- Kellogg Sugar Products Company**, Lima, Ohio. "Gouber." (For Candy.) No. 23,473; Oct. 18.
- Kellogg Toasted Corn Flake Co.**, Battle Creek, Mich. "Kellogg's Cooked Bran." (For a Food Specifically Known as "Kellogg's Cooked Bran.") No. 23,033; June 28; v. 287; p. 783.
- Kemling, F. Wm., Co.**, San Jose, Calif. "Prunes From Los Gatos." (For Boxes of Prunes.) No. 23,421; Sept. 13; v. 290; p. 431.
- Kennedy Dairy Co.** (See Menasha Printing and Carton Company, assignor.)
- Kent Storage Company.** (See Menasha Printing and Carton Company, assignor.)
- Kent Storage Company**, Grand Rapids, Mich. "Blue Grass Evaporated Milk." (For Containers for Condensed Milk.) No. 23,550; Oct. 25.
- Kern County Creamery & Farms Co.** (See Menasha Printing and Carton Company, assignor.)
- Keystone Creamery Company.** (See Menasha Printing and Carton Company, assignor.)
- Kiesling, Charles E.**, Canton, Ohio. "Hedrelef." (For Medicine Tablets for Headache, Neuralgia, Colds, La Grippe, Aches, and Pains.) No. 23,366; Sept. 6; v. 290; p. 223.
- King & Company**, New York, N. Y. "Our-Own." (For Socks.) No. 23,210; Aug. 23; v. 289; p. 797.
- Kinnett Coal & Ice Company.** (See Menasha Printing and Carton Company, assignors.)
- Kirk, James S., & Company**, Chicago, Ill. "Kirk's Soluble Washing Powder." (For Washing - Powder.) No. 22,432; Jan. 25; v. 282; p. 739.
- Kirk, James S., & Company**, Chicago, Ill. "Kirk's Original Cocoa Hardwater Castile." (For Castile Soap.) No. 22,630; Mar. 8; v. 284; p. 375.
- Kirk, James S., Company**, Chicago, Ill. "M-D Soap for Physicians and Surgeons." (For Soap.) No. 22,744; Mar. 22; v. 284; p. 753.
- Kirk, James S., & Company**, Chicago, Ill. "Kirk's American Family Washing Machine Soap Chips." (For Soap Chips.) No. 22,820; Mar. 29; v. 284; p. 955.
- Kirkman & Son**, Brooklyn, N. Y. "Kirkman's Floating Soap." (For Wrapper for a Floating Soap for Toilet and Bath.) No. 23,298; Aug. 30; v. 289; p. 1020.
- Klar, Adolph**, New York, N. Y. "Hold-Tight." (For Hair-Nets.) No. 23,597; Nov. 1.
- Klee, Theodore P.**, Kansas City, Mo. "Kleodore Toilet Cream." (For Bottles Containing Kleodore Toilet Cream.) No. 23,474; Oct. 18.
- Klein, Joseph L.**, St. Louis, Mo. "Little Brown Jug." (For Syrup for Food Purposes.) No. 23,299; Aug. 30; v. 289; p. 1020.
- Kleinert, I. B.**, Rubber Company, New York, N. Y. "Rubber-Float." (For Flotation Devices.) No. 22,743; Mar. 22; v. 284; p. 753.
- Knickerbocker Chocolate Company**, West Hoboken, N. J., and New York, N. Y. "Vitamene Chocolate." (For Sweet Chocolate.) No. 23,551; Oct. 25.
- Knickerbocker Chocolate Company**, West Hoboken, N. J., and New York, N. Y. "Vitacoco." (For Cocoa-Powder.) No. 23,552; Oct. 25.
- Koehler, Walter E., Co.**, New York, N. Y. "Koehler." (For Cigars.) No. 22,607; Mar. 1; v. 284; p. 180.
- Kolb, George O.**, Hartford, Conn. "Kolb's Permit Loaf." (For Bread.) No. 22,631; Mar. 8; v. 284; p. 375.
- Kolb, George O.**, Hartford, Conn. "Walnut Crullers." (For Crullers.) No. 23,553; Oct. 25.
- Kori, John B.**, Jacksonville, Fla. "Hairlife." (For Hair and Scalp Remedy.) No. 22,632; Mar. 8; v. 284; p. 375.
- Kornberg, S.**, Chicago, Ill. "The Bull Dog Grip." (For Leather Goods, Traveling-Bags, and Suitcases.) No. 23,367; Sept. 6; v. 290; p. 223.
- Kotniow, G. H.** (See Menasha Printing and Carton Company, assignor.)
- Kraft, H. B.**, Milwaukee, Wis. "Kraft's Kold Kapsules." (For Packages Containing a Remedy for Colds and La Grippe.) No. 22,970; May 31; v. 286; p. 1057.
- Krank, Alfred J.**, St. Paul, Minn. "Lather Cream." (For Boxes Containing a Preparation Which is Used as a Shaving-Cream.) No. 22,911; May 24; v. 286; p. 860.
- Krank, Alfred J.**, St. Paul, Minn. "Lem-Mud." (For Jars Containing Facial Treatment.) No. 23,211; Aug. 23; v. 289; p. 797.
- Krank, Alfred J.**, St. Paul, Minn. "Lemon Shampoo." (For Cartons Containing Bottles of Shampoo.) No. 23,212; Aug. 23; v. 289; p. 797.
- Krank, Alfred J.**, St. Paul, Minn. "Krank's In Vigorator." (For Bottles of Hair-Dresser.) No. 23,422; Sept. 13; v. 290; p. 431.
- Krank, Alfred J.**, St. Paul, Minn. "Hair-Root-Oil." (For a Hair-Dressing and Shampoo.) No. 23,554; Oct. 25.
- Krank, Alfred J.**, St. Paul, Minn. "Krank's Natural Face Powder." (For Boxes Containing a Face-Powder.) No. 23,632; Nov. 8.
- Krause, Max Ernest**, Cincinnati, Ohio. "Royal." (For Tin Cans Containing Malt Extract.) No. 23,674; Nov. 22.
- Kreem-Eze Company**, The, Roseville, Calif. "Lewis' Shave - Eze Creme." (For Shaving - Cream.) No. 23,213; Aug. 23; v. 289; p. 797.
- Kresge, S. S., Co.**, Detroit, Mich. "Two In One." (For Hair-Nets.) No. 23,214; Aug. 23; v. 289; p. 797.
- L. & R. Company**, The, Providence, R. I. "Permanent Tip." (For Shoe-Laces.) No. 23,423; Sept. 13; v. 290; p. 431.
- La Crosse Refining Company**, La Crosse, Wis. "Elf Brand." (For Malt-Syrup.) No. 22,541; Feb. 8; v. 283; p. 361.
- La Fortune, Duke**, Springfield, Mass. "Mother Houghton's Chicken Hamburg." (For Cooked Meat—Namely, Chicken Hamburg.) No. 23,598; Nov. 1.
- La Linda Diana Cigar Company**, New York, N. Y. "Flor De Galindo." (For Cigars.) No. 23,034; June 28; v. 287; p. 783.
- Lamb Fruit Company**, The, Milton, Oreg. "Lamb." (For Prunes.) No. 23,633; Nov. 8.
- La Minar Cigar Co. Inc.**, Hammond, Ind. "La Minar." (For Cigars.) No. 23,634; Nov. 8.
- Landenberger, J. William.** (See Williams, Harney I., assignor.)
- Lane, Mrs. J. H.**, Atlantic City, N. J. "Mme. J. H. Lane's 'Over the Top' Hair Cream." (For Containers of the Aforesaid Hair-Cream.) No. 23,475; Oct. 18.
- Lantz Bros. Baking Co.**, St. Louis, Mo. "Grandma's Cookies." (For Cookies.) No. 22,542; Feb. 8; v. 283; p. 361.
- Lantz Bros. Baking Co.**, St. Louis, Mo. "Grandma's Cake." (For Cake.) No. 23,215; Aug. 23; v. 289; p. 797.
- Lantz Bros. Baking Co.**, St. Louis, Mo. "Grandma's Cake." (For Cake.) No. 23,368; Sept. 6; v. 290; p. 223.
- La Rock, R. M.**, Rutland, Vt. "The Marvelous Eye Wash." (For Eye-Wash.) No. 22,891; May 17; v. 286; p. 644.
- Latorraca Bros.**, New York, N. Y. "Tomato Paste." (For Tomato Paste.) No. 23,741; Dec. 13.
- Lautz Bros. & Co.**, Buffalo, N. Y. "Queen Anne Soap." (For Soap.) No. 23,005; June 14; v. 287; p. 403.
- Lavo Company of America**, Milwaukee, Wis. "Disi Kleen." (For Containers Containing Cleansing-Powder Preparation.) No. 22,870; May 3; v. 286; p. 197.
- Lederer, Herbert B.**, Co. Inc., New York, N. Y. "Fluffy-tulle." (For Malines, Tulle, and Nettings in the Piece.) No. 23,635; Nov. 8.
- Leon, A. M., & Co.**, New York, N. Y. "Pete Wendling." (For Cigars.) No. 23,006; June 14; v. 287; p. 403.
- Levor, Victor**, Attica, Ind. "Old National Trail." (For Cigars.) No. 22,633; Mar. 8; v. 284; p. 375.
- Levor, Victor**, Attica, Ind. "White Mule." (For Cigars.) No. 22,634; Mar. 8; v. 284; p. 375.
- Lezama, J. I.**, Empedrado, Habana, Cuba. "Limones." (For Containers for Cane-Sugar.) No. 22,871; May 3; v. 286; p. 197.
- Lichtstein, Abraham**, Pittsburgh, Pa. "A. L. Brand." (For Hair-Restorative.) No. 23,599; Nov. 1.
- Liggett & Myers Tobacco Company**, New York, N. Y. "Home Run." (For Wrappers Inclosing or Containing Cigarettes.) No. 23,369; Sept. 6; v. 290; p. 223.
- Lightstein, Abraham**, Pittsburgh, Pa. "A. L. Brand." (For Dandruff Remedy.) No. 23,600; Nov. 1.
- Lime Cola Company**, Montgomery, Ala. "Bottle Decoration." (For Lime Cola.) No. 23,717; Nov. 29.
- Lindsay-Strathmore Pomegranate Ass'n**, Lindsay, Calif. "Lindsay Strathmore." (For Pomegranates.) No. 23,806; Dec. 20.
- Lindsay-Strathmore Pomegranate Ass'n**, Lindsay, Calif. "Ruby Red." (For Pomegranates.) No. 23,807; Dec. 20.
- Linton, Roscoe S.**, Joplin, Mo. "Rooster Brand." (For Coffee.) No. 22,971; May 31; v. 286; p. 1057.



- Linton, Roscoe S., Joplin, Mo. "Mule." (For Cigarettes.) No. 23,555; Oct. 25.
- Lipschulch, George W., Chicago Ill. "Mozzel Sham Pagne." (For Non-Cereal, Maltless, Non-Alcoholic Beverage Sold as a Soft Drink.) No. 23,556; Oct. 25.
- Little Crow Milling Co., Warsaw, Ind. "Little Crow Pancake Flour." (For Prepared Flour.) No. 22,972; May 31; v. 286; p. 1057.
- Little Falls Dairy Co., Inc., Little Falls, N. Y. "Sweetened Condensed Milk Jersey Brand." (For Cans and Containers in Which Such Product is Sold.) No. 22,892; May 17; v. 286; p. 644.
- Liversule Co., The, Columbus, Ga. "Liver-Sules." (For Bottles or Boxes Containing a Medicine for the Liver.) No. 22,973; May 31; v. 286; p. 1057.
- Lockwood, Charles Mowry, Opportunity, Wash. "Bull Eye." (For Apples.) No. 22,380; Jan. 11; v. 282 p. 384.
- Loewus, G., & Co., Jersey City, N. J. "Nalco." (For Malt Extract.) No. 22,473; Feb. 1; v. 283; p. 178.
- Loewus, G., & Co., Jersey City, N. J. "Redibak." (For Malt Extract.) No. 23,557; Oct. 25.
- Loft, Inc., New York, N. Y. "Old Dutch Chocolates." (For Candies.) No. 23,636; Nov. 8.
- Loft, Inc., New York, N. Y. "Italian Creams." (For Candies.) No. 23,637; Nov. 8.
- Loft, Inc., New York, N. Y. "Briarcliff Milk Chocolates." (For Candies.) No. 23,740; Dec. 13.
- Log Cabin Products Company, The, St. Paul, Minn. "Towle's Wigwam." (For Syrup.) No. 23,081; July 5; v. 288; p. 201.
- Loose-Wiles Biscuit Company, Kansas City, Mo. "Dardanella." (For Candy.) No. 22,912; May 24; v. 286; p. 860.
- Los Angeles Creamery Company. (See Menasha Printing and Carton Company, assignor.)
- Losco, Anthony, Newark, N. J. "XXX Brand." (For Malt Extract.) No. 23,853; Dec. 27.
- Louisiana State University & A. & M. College. (See Menasha Printing and Carton Company, assignor.)
- Lowrey, Luther S., San Francisco, Calif. "Lowrey's Pralines." (For Pecan Candy.) No. 23,476; Oct. 18.
- Lucati, Alfred, New York, N. Y. "The Salvador Great Liquid for Cleaning Floors SD8." (For Bottles or Demijohns of the Salvador SD8.) No. 23,854; Dec. 27.
- Lucati, Alfred, New York, N. Y. "The Salvador Renowned Liquid for Washing Clothes SD3." (For Bottles or Demijohns of the Salvador SD3.) No. 23,855; Dec. 27.
- Ludwig-Wolf Ice Cream Co. (See Menasha Printing and Carton Company, assignor.)
- Lummis and Company, Philadelphia, Pa. "Salted Krispeanuts." (For Peanuts.) No. 22,696; Mar. 15; v. 284; p. 588.
- Lummis and Company, Philadelphia, Pa. "Krispeanut Candy." (For Peanut-Candy or for Candy Containing Peanuts.) No. 22,697; Mar. 15; v. 284; p. 588.
- M. B. Ise Kream Company. (See Menasha Printing and Carton Company, assignor.)
- M. H. Pharmacal Co., (Inc.), Chicago, Ill. "Depilis." (For Depilatory Pharmaceutical Preparations.) No. 22,837; Mar. 29; v. 284; p. 956.
- McCubbin, John C., Fresno, Calif. "Unkist Honey." (For Honey.) No. 22,976; May 31; v. 286; p. 1058.
- McKeag, Henry S., Montclair, N. J. "Knicker Kloth." (For Linen Cloth.) No. 23,809; Dec. 20.
- McManes, Joseph B., Columbus, Ohio. "Bromo-Aspirin." (For Pharmaceutical Preparations.) No. 23,007; June 14; v. 287; p. 403.
- McQuay-Norris Mfg. Co., St. Louis, Mo. "McQuay-Norris Jiffy-Grip Piston Rings." (For Piston-Rings.) No. 22,888; May 10; v. 286; p. 412.
- McQuay-Norris Mfg. Co., St. Louis, Mo. "McQuay-Norris Jiffy Grip Piston Rings." (For Piston-Rings.) No. 23,216; Aug. 23; v. 289; p. 797.
- MacArthur, Charles J., Glen Ridge, N. Y. "Unit Inks." (For Inks for Printers and Lithographers.) No. 23,638; Nov. 8.
- MacCann, J. W., Oakland, Calif. "Dubl-Rub Motor Car Polish and Cleaner." (For Automobiles.) No. 23,477; Oct. 18.
- MacKenzie, Robt. F., Co., The, Cleveland, Ohio. "Mack's Cherry Smack." (For Candy.) No. 22,767; Mar. 22; v. 284; p. 754.
- Macy, R. H., & Co., Inc., New York, N. Y. "Couverlain." (For Guaranteed All-Wool Blankets.) No. 23,808; Dec. 20.
- Madonna, Francesco, New York, N. Y. "Angel Quinine Hair Tonic." (For Hair-Tonic.) No. 22,745; Mar. 22; v. 284; p. 753.
- Magnesium Products Co. Inc., New York, N. Y. "Jaquelin's Cream of Magnesia." (For Medicinal Preparation Containing Magnesia.) No. 22,821; Mar. 29; v. 284; p. 955.
- Magnus, Joseph E., Chicago, Ill. "Puritan Malt Sugar Syrup." (For Malt-Sugar Syrup.) No. 23,478; Oct. 18.
- Malleable Iron Range Company, Beaver Dam, Wis. "Vitrified Glass Coated Flues." (For Flue-Linings for Monarch Ranges.) No. 23,424; Sept. 13; v. 290; p. 431.
- Malone & Hyde, Inc., Memphis, Tenn. "Golden Eagle." (For Coffee.) No. 23,675; Nov. 22.
- Malzone, Angelo, & Sons, West New York, N. J. "All Over the World Brand, Malzone's." (For Confectionery.) No. 23,558; Oct. 25.
- Manville Company, Providence, R. I. "Manville Ruffit Cloth." (For Piece Goods.) Nos. 23,300-2; Aug. 30; v. 289; p. 1020.
- Maple City Dairy Company. (See Menasha Printing and Carton Company, assignor.)
- Marrow, Isadore L., New York, N. Y. "Harvard Children's Underwear." (For Children's Underwear.) No. 22,474; Feb. 1; v. 283; p. 178.
- Mars, Jesse B., Providence, R. I. "Mar-Randa." (For Hair-Shampoo.) No. 23,140; July 26; v. 288; p. 827.
- Marshall Canning Company, Marshalltown, Iowa. "Goblin." (For Canned Sweet Corn.) No. 22,381; Jan. 11; v. 282; p. 384.
- Marshall Canning Co., Marshalltown, Iowa. "Marshall." (For Canned Kraut.) No. 22,543; Feb. 8; v. 283; p. 361.
- Marshall Canning Co., Marshalltown, Iowa. "Creamy Korn Kernels." (For Breakfast Cereal.) No. 22,544; Feb. 8; v. 283; p. 361.
- Marshalltown Laboratories, Marshalltown, Iowa. "Cello-silk." (For Surgical Dressings.) No. 22,698; Mar. 15; v. 284; p. 588.
- Martin, W. E., Chicago, Ill. "E-Z Blue." (For Bluing for Laundry or Washing Purposes.) No. 23,676; Nov. 22.
- Massachusetts Baking Co. (See Menasha Printing and Carton Company, assignor.)
- Master Playermen, Philadelphia, Pa. "Master Playermen." (For Pianos and Player-Pianos.) No. 22,822; Mar. 29; v. 284; p. 955.
- Matalone, G., Chicago, Ill. "Italy Brand." (For Macaroni.) No. 23,479; Oct. 18.
- Mather, Harold H., Albany, N. Y. "Sans Pareil." (For Shampoo.) No. 22,746; Mar. 22; v. 284; p. 753.
- Matthews, Henry P., Baltimore, Md. "Cloverfield." (For Butter.) No. 23,303; Aug. 30; v. 289; p. 1020.
- Maurer, Oscar E., San Francisco, Calif. "Rainier." (For Malt Syrup.) No. 22,825; Mar. 29; v. 284; p. 955.
- Mauer, Robert, Chino, Calif. "Lapidar." (For Goods Named Lapidar Which Consist of Medicinal Tablets Made of Herbs and Roots from the Swiss Alps.) No. 23,425; Sept. 13; v. 290; p. 431.
- May Beverage Company, Chicago, Ill. "May's Red Seal." (For Malt Extract.) No. 22,824; Mar. 29; v. 284; p. 955.
- May, Clarence, Chicago, Ill. "Playhouse." (For Candy.) No. 23,304; Aug. 30; v. 289; p. 1020.
- May Department Stores Company, New York, N. Y. "Good Value." (For Toilet-Paper, Being Applied to the Package Containing the Same.) No. 23,370; Sept. 6; v. 290; p. 223.
- May Department Stores Company, New York, N. Y. "Old Linen." (For Toilet-Paper, Being Applied to the Package Containing the Same.) No. 23,371; Sept. 6; v. 290; p. 224.
- May Department Stores Company, New York, N. Y. "The Winner." (For Toilet-Paper, Being Applied to the Package Containing the Same.) No. 23,372; Sept. 6; v. 290; p. 224.
- May Department Stores Company, New York, N. Y. "Sanatory." (For Toilet-Paper, Being Applied to the Package Containing the Same.) No. 23,373; Sept. 6; v. 290; p. 224.
- May Hosiery Mills, The, Burlington, N. C. "B. V. May." (For Hosiery.) No. 23,742; Dec. 13.
- Mead Johnson & Co., Evansville, Ind. "Dextro Malto No. 2." (For Mead's Dextri-Maltose.) No. 23,549; Oct. 25.
- Medina Fruit Products Co., Inc., Medina, N. Y. "Sweet Red Band Cider." (For Cider.) No. 22,747; Mar. 22; v. 284; p. 753.
- Medina Fruit Products Co., Inc., Medina, N. Y. "Royal Russet Black Jack Cider." (For Cider.) No. 22,748; Mar. 22; v. 284; p. 753.
- Melchior Supply Co., Chicago, Ill. "Krownit." (For Hair-Tonics.) No. 23,217; Aug. 23; v. 289; p. 797.
- Memphis Bread Company, Memphis, Tenn. "Happy Home." (For Bread.) No. 23,374; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Cunningham Ice Cream Company, Chicago, Ill. "Cunningham's Country Club Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,382; Jan. 11; v. 282; p. 384.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to National Ice Cream Company, San Francisco, Calif. "National Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,383; Jan. 11; v. 282; p. 384.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Supplee-Wills-Jones Milk Co., Philadelphia, Pa. "Supplee Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,384; Jan. 11; v. 282; p. 384.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Crescent Creamery Co., Los Angeles, Calif. "Crescent Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,433; Jan. 25; v. 282; p. 739.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Thatcher's Bakery, Rochester, Minn. "Thatcher's Quality." (For Wax-Paper Wrappers Containing Bread.) No. 22,434; Jan. 25; v. 282; p. 739.



*Alphabetical list of registrants of labels—Continued.*

- Menasha Printing and Carton Company, Menasha, Wis., assignor to Kaufman-Cutlery Bakery Co., Des Moines, Iowa. "Blue Ribbon." (For Wax-Paper Wrappers Containing Bread.) No. 22,435; Jan. 25; v. 282; p. 739.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Welpuetz Bakery, Cape Girardeau, Mo. "Milk Maid." (For Waxed-Paper Wrappers Containing Bread.) No. 22,436; Jan. 25; v. 282; p. 739.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Massachusetts Baking Co., Bridgeport, Conn. "White Rose Bread." (For Wax-Paper Wrappers Containing Bread.) No. 22,475; Feb. 1; v. 283; p. 178.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Sun Baking Company, Auburn, N. Y. "Butter Bread." (For Wax-Paper Wrappers Containing Bread.) No. 22,476; Feb. 1; v. 283; p. 178.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Sam Seelig Company, Los Angeles, Calif. "Oak Glen Brand." (For Cartons Containing Butter.) No. 22,477; Feb. 1; v. 283; p. 178.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to L. J. Christopher Company, Los Angeles, Calif. "Christopher's Brick Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,478; Feb. 1; v. 283; p. 178.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Bartholomay Co., Inc., Rochester, N. Y. "Bartholomay Quality Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,545; Feb. 8; v. 283; p. 361.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Kern County Creamery & Farms Co., Bakersfield, Calif. "Peacock Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,635; Mar. 8; v. 284; p. 375.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Ludwig-Wolf Ice Cream Co., Milwaukee, Wis. "Ludwig-Wolf Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,636; Mar. 8; v. 284; p. 375.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Rieck McJunkin Dairy Co., Pittsburgh, Pa. "Rieck McJunkin Private Brand Butter." (For Cartons Containing Butter.) No. 22,637; Mar. 8; v. 284; p. 375.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Schwindeler Ice Cream Company, Quincy, Ill. "Schwindeler's Quality Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,638; Mar. 8; v. 284; p. 375.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to D. C. Yuengling & Son, Pottsville, Pa. "Yuengling's Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,639; Mar. 8; v. 284; p. 375.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Rieck McJunkin Dairy Co., Pittsburgh, Pa. "Rieck's Private Brand Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,640; Mar. 8; v. 284; p. 375.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Flynn Dairy Co., Des Moines, Iowa. "Flynn Quality Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,641; Mar. 8; v. 284; p. 375.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Rieck McJunkin Dairy Company, Pittsburgh, Pa. "Rieck's Special Brick." (For Cartons Containing Ice-Cream.) No. 22,642; Mar. 8; v. 284; p. 375.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Rieck McJunkin Dairy Company, Pittsburgh, Pa. "Rieck's Private Brand Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,643; Mar. 8; v. 284; p. 375.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Blommer Ice Cream Company, Milwaukee, Wis. "Blommer's The Cream of Creams." (For Cartons Containing Ice-Cream.) No. 22,644; Mar. 8; v. 284; p. 375.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Kennedy Dairy Co., Madison, Wis. "Velvet Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,645; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Park Produce Co., Inc., Lawton, Okla. "Mount Scott Creamery Butter." (For Cartons Containing Butter.) No. 22,646; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Keystone Creamery Company, York, Nebr. "Dairymaid Creamery Butter." (For Cartons Containing Butter.) No. 22,647; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Shurtleff Company, Janesville, Wis. "Delicious Shurtleff's Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,648; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to R. F. Worden & Sons, Waterbury, Conn. "Worden's Lighthouse Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,649; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to White Plains Ice Cream Co., White Plains, N. Y. "Palm Beach Brick Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,650; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to National Cry. & Produce Co., Los Angeles, Calif. "All Cream Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,651; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Rochester Ice Cream Co., Rochester, N. Y. "Rochester Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,652; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Peerless Ice Cream Co., Sacramento, Calif. "Peerless Ice Cream Co." (For Cartons Containing Ice-Cream.) No. 22,653; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Polar Products Co., Inc., New York, N. Y. "Polar a Delicious Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,654; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Evansville Pure Milk Co., Evansville, Ind. "Evansville Pure Milk Co's Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,655; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Virgin Ice Cream Co., San Francisco, Calif. "Virgin Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,656; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Visalia Coöperative Creamery, Kings County Creamery Ass'n, Los Angeles, Calif. "Golden Crown Creamery Butter." (For Cartons Containing Butter.) No. 22,657; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Passaic Ice Cream Co., Passaic, N. J. "Passaic Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,658; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Taylor Ice Cream Co., Buffalo, N. Y. "Taylor's Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,659; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Sanitary Milk Co., Canton, Ohio. "Sanitary Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,660; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Smith & Clark Co., Wilkes-Barre, Pa. "Golden Rod Frozen Custard." (For Cartons Containing Ice-Cream.) No. 22,661; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Louisiana State University & A. & M. College, Baton Rouge, La. "L. S. U. Creamery Butter." (For Cartons Containing Butter.) No. 22,662; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Kent Storage Company, Grand Rapids, Mich. "Blue Grass Butter." (For Cartons Containing Butter.) No. 22,663; Mar. 8; v. 284; p. 376.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Binswanger & Co., St. Joseph, Mo. "Lilly White." (For Wax-Paper Bread-Wrappers Containing Bread.) No. 22,749; Mar. 22; v. 284; p. 753.
- Menasha Printing and Carton Company, Menasha, Wis., assignors to Walker Creamery Products Company, Warren, Pa. "Walker's Celebrated I X L Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,750; Mar. 22; v. 284; p. 753.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Northern Iowa Produce Company, Inc., McGregor, Iowa. "Lotus Creamery Butter." (For Cartons Containing Butter.) No. 22,751; Mar. 22; v. 284; p. 753.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Shedd Creamery Company, Detroit, Mich. "Shedd Brand Creamery Butter." (For Cartons Containing Butter.) No. 22,825; Mar. 29; v. 284; p. 956.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Whitehead Brothers, Riverside, Calif. "Whitehead Brand Butter." (For Cartons Containing Butter.) No. 22,826; Mar. 29; v. 284; p. 956.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Allen Ice Cream Company, Rockford, Ill. "Allen's Jersey Brand Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,827; Mar. 29; v. 284; p. 956.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Farmers Creamery & Ice Cream Co., Topeka, Kans. "Perfection Creamery Butter." (For Cartons Containing Butter.) No. 22,828; Mar. 29; v. 284; p. 956.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Maple City Dairy Company, Albion, Mich. "Maple City Creamery Butter." (For Cartons Containing Butter.) No. 22,829; Mar. 29; v. 284; p. 956.
- Menasha Printing and Carton Company, Menasha, Wis., assignors to Binswanger & Co., St. Joseph, Mo. "Jersey Cream." (For Wax-Paper Bread-Wrappers Containing Bread.) No. 22,913; May 24; v. 286; p. 860.
- Menasha Printing and Carton Company, Menasha, Wis., assignors to Mountain Grove Creamery Ice and Electric Co., Mountain Grove, Mo. "Prairie Gold Creamery Butter." (For Cartons Containing Butter.) No. 22,914; May 24; v. 286; p. 860.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to City Dairy Co., Baltimore, Md. "Gardner's Ice Cream De Luxe." (For Cartons Containing Ice-Cream.) No. 22,974; May 31; v. 286; p. 1057.



- Menasha Printing and Carton Company, Menasha, Wis., assignor to City Dairy Company, Baltimore, Md. "Gardiner's Purity Ice Cream." (For Cartons Containing Ice-Cream.) No. 22,975; May 31; v. 286; p. 1057.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Greensburg Baking Co., Greensburg, Pa. "Quality Bread." (For Wax-Paper Wrappers Containing Bread.) No. 23,008; June 14; v. 287; p. 403.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Carpenter Ice Cream Company, St. Louis, Mo. "Carpenter's." (For Cartons Containing Ice-Cream.) No. 23,035; June 28; v. 287; p. 783.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Safford Ice & Creamery Co., Safford, Ariz. "Safford Creamery Butter." (For Cartons Containing Butter.) No. 23,036; June 28; v. 287; p. 783.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Gate City Dairy & Ice Cream Co., Atlanta, Ga. "Gate City Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,037; June 28; v. 287; p. 783.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Eau Claire Creamery Company, Eau Claire, Wis. "Robin Brand Butter." (For Cartons Containing Butter.) No. 23,038; June 28; v. 287; p. 783.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Milwaukee Butter Company, Milwaukee, Wis. "Cream City Brand." (For Cartons Containing Ice-Cream.) No. 23,039; June 28; v. 287; p. 783.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to York Sanitary Milk Company, York, Pa. "Purity Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,040; June 28; v. 287; p. 783.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Parrott and Ganter Company, Atchison, Kans. "Evergold Butter." (For Cartons Containing Butter.) No. 23,041; June 28; v. 287; p. 783.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Certified Ice Cream Company, Chicago, Ill. "Certified Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,082; July 5; v. 288; p. 201.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Patton Creamery Company, Springfield, Mo. "Premier Butter." (For Cartons Containing Butter.) No. 23,083; July 5; v. 288; p. 201.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to G. H. Kothlow, Edgerton, Wis. "Kothlow's Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,084; July 5; v. 288; p. 201.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Wright & Parker, Detroit, Mich. "Gold Chain." (For Cartons Containing Butter.) No. 23,085; July 5; v. 288; p. 201.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Belle Meade Butter Company, Nashville, Tenn. "Belle Meade Butter." (For Cartons Containing Butter.) No. 23,086; July 5; v. 288; p. 201.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Jersey Ice Cream Company, Chicago, Ill. "Jersey." (For Cartons Containing Ice-Cream.) No. 23,087; July 5; v. 288; p. 201.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to National Dairy Company, Providence, R. I. "Sunset Nut-Margarine." (For Cartons Containing Oleomargarin.) No. 23,141; July 26; v. 288; p. 827.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Fussell-Young Ice Cream Company, Washington, D. C. "Fussell's Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,142; July 26; v. 288; p. 827.
- Menasha Printing and Carton Company, Menasha, Wis., assignors to M. F. Fadden & Sons, Inc., Scranton, Pa. "Fadden's Quality Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,143; July 26; v. 288; p. 827.
- Menasha Printing and Carton Company, Menasha, Wis. "Grandma's Bread." (For Wax-Paper Bread-Wrappers.) No. 23,221; Aug. 23; v. 289; p. 797.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Haydon Company, Brainerd, Minn. "Haydon's Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,222; Aug. 23; v. 289; p. 797.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Peoples Fuel & Supply Company, Chicago, Ill. "People's Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,223; Aug. 23; v. 289; p. 797.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to George K. Brown Co., Chattanooga, Tenn. "The Cream of the Town Geo. K. Brown Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,224; Aug. 23; v. 289; p. 797.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to F. H. George & Company, Fort Wayne, Ind. "Rosemary." (For Cartons Containing Butter.) No. 23,305; Aug. 30; v. 289; p. 1020.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Hershey Creamery Company, Harrisburg, Pa. "Hershey's Superior Creamery Butter." (For Cartons Containing Butter.) No. 23,306; Aug. 30; v. 289; p. 1020.
- Menasha Printing & Carton Company, Menasha, Wis., assignor to Thacher Ice Cream Company, Pittsburgh, Pa. "Thacher Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,375; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Terre Haute Pure Milk & Ice Cream Company, Terre Haute, Ind. "Our Favorite Creamery Butter." (For Cartons Containing Butter.) No. 23,376; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Farmers Mutual Creamery, Inc., Abingdon, Va. "Virginia's Best Creamery Butter." (For Cartons Containing Butter.) No. 23,377; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Potomac Butter Company, Washington, D. C. "Potomac Creamery Butter." (For Cartons Containing Butter.) No. 23,378; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Odom Ice Cream Company, Macon, Ga. "Odom's Quality Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,379; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Miller Creamery Company, Oakland, Calif. "Miller's Quality Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,380; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Quaker Creamery Company, Minneapolis, Minn. "Quaker Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,381; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Kinnett Coal & Ice Company, Macon, Ga. "Kinnett's Velvet Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,382; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Telling-Belle Vernon Company, Cleveland, Ohio. "Telling's Ice Cream Dolly Madison." (For Cartons Containing Ice-Cream.) No. 23,383; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Telling-Belle Vernon Company, Cleveland, Ohio. "Telling's Ice Cream Martha Washington." (For Cartons Containing Ice-Cream.) No. 23,384; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Telling-Belle Vernon Company, Cleveland, Ohio. "Telling's Ice Cream Belle Vernon." (For Cartons Containing Ice-Cream.) No. 23,385; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Telling-Belle Vernon Company, Cleveland, Ohio. "Telling's Vanilla Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,386; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Johnstown Sanitary Dairy Company, Johnstown, Pa. "Sanitary Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,387; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Metropolitan Ice Cream Company, Newark, N. J. "Metropolitan Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,388; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Sanitary Bakery, Berwick, Pa. "Dainty Bread." (For Waxed Paper Bread-Wrappers Containing Bread.) No. 23,389; Sept. 6; v. 290; p. 224.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Washington Dairy Company, Inc., Peoria, Ill. "Washington Brand Pure Creamery Butter." (For Cartons Containing Butter.) No. 23,426; Sept. 13; v. 290; p. 431.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Waukesha Ice Cream Company, Waukesha, Wis. "Waukesha Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,480; Oct. 18.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Neches Creamery Company, Beaumont, Tex. "Dairy Maid Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,481; Oct. 18.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Mowry Creamery Company, Colorado Springs, Colo. "Mowry's Golden Glow Butter." (For Cartons Containing Butter.) No. 23,482; Oct. 18.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to M. B. Ise Cream Company, Waco, Tex. "Delicious M-B." (For Cartons Containing Ice-Cream.) No. 23,483; Oct. 18.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to H. L. Neuman Company, York, Pa. "Neuman's Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,559; Oct. 25.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Cloverleaf Creameries, Inc., Huntington, Ind. "Wabash Valley." (For Cartons Containing Butter.) No. 23,560; Oct. 25.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Hygeia Ice Cream Company, Elmira, N. Y. "Cold-Kist." (For Cartons Containing Ice-Cream.) No. 23,561; Oct. 25.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Trapp Bros. Dairy Company, Milwaukee, Wis. "Trapp's Fancy Creamery Butter." (For Cartons Containing Butter.) No. 23,562; Oct. 25.



## Alphabetical list of registrants of labels—Continued.

- Menasha Printing and Carton Company, Menasha, Wis., assignor to The Hill-Weppner Company, Cleveland, Ohio. "Pride of Ohio." (For Cartons Containing Butter.) No. 23,563; Oct. 25.
- Menasha Printing and Carton Company, Menasha, Wis. "Creamery Butter." (For Cartons Containing Butter.) No. 23,677; Nov. 22.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Toloma Creamery, Los Angeles, Calif. "Toloma." (For Cartons Containing Butter.) No. 23,678; Nov. 22.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Bushway Ice Cream Company, Somerville, Mass. "Bushway's." (For Cartons Containing Ice-Cream.) No. 23,679; Nov. 22.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Sterling Dairy Products Company, Twin Falls, Idaho. "Clover Dew." (For Cartons Containing Butter.) No. 23,680; Nov. 22.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Stephenson County Co-operative Marketing Company, Freeport, Ill. "Vita Gold." (For Cartons Containing Butter.) No. 23,681; Nov. 22.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Froznpure Ice Cream Company Incorporated, Louisville, Ky. "Froznpure." (For Cartons Containing Ice-Cream.) No. 23,682; Nov. 22.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Senecaugh Company, Cleveland, Ohio. "Lak-Side Brand Butter." (For Cartons Containing Butter.) No. 23,743; Dec. 13.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Henry Dolfinger, Philadelphia, Pa. "Dol-finger's." (For Cartons Containing Butter.) No. 23,744; Dec. 13.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Waterloo Ice Cream Company, Waterloo, Iowa. "Crowell's Wicco." (For Cartons Containing Ice-Cream.) No. 23,745; Dec. 13.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Los Angeles Creamery Company, Los Angeles, Calif. "The Cream Supreme." (For Cartons Containing Ice-Cream.) No. 23,746; Dec. 13.
- Menasha Printing and Carton Company, Menasha, Wis., assignor to Vincennes Milk & Ice Cream Company, Vincennes, Ind. "Tip Top." (For Cartons Containing Ice-Cream.) No. 23,747; Dec. 13.
- Menke, Wilber J., Terre Haute, Ind. "Old Faithful." (For Coffee.) No. 23,639; Nov. 8.
- Messing, Philip, Long Island City, N. Y. "Chocolate Cherries." (For Cartons Containing Chocolate Cherries.) No. 23,427; Sept. 13; v. 290; p. 431.
- Metropolitan Ice Cream Company. (See Menasha Printing and Carton Company, assignors.)
- Metzner, H. & G., Albany, N. Y. "United States Panama Canal Cigar." (For Cigars.) No. 23,390; Sept. 6; v. 290; p. 224.
- Metzner, H. & G., Albany, N. Y. "New York Sheep Exhibition Cigar." (For Cigars.) No. 23,810; Dec. 20.
- Midland Cereal Products Co., Denver, Colo. "Whole Wheat Nuggets." (For a Wheat Breakfast Cereal.) No. 22,664; Mar. 8; v. 284; p. 376.
- Mid-States Gummed Paper Co., Chicago, Ill. "Stick Quick." (For Gummed Paper and Cloth.) No. 23,601; Nov. 1.
- Mid West Products Co., Milwaukee, Wis. "Pear Crush." (For Non-Intoxicating Cereal Beverage.) No. 22,830; Mar. 29; v. 284; p. 956.
- Mid West Products Co., Milwaukee, Wis. "Apple Crush." (For Non-Intoxicating Cereal Beverage.) No. 22,831; Mar. 29; v. 284; p. 956.
- Miller Brothers, New York, N. Y. "Cameo Jewel Box." (For Cartons or other Containers for This Jewel-Box.) No. 23,602; Nov. 1.
- Miller Bros., New Orleans, La. "Square Deal Jewelers." (For Watches, Jewelry, and Diamonds.) No. 23,811; Dec. 20.
- Miller Cereal Mills, Omaha, Nebr. "Jiffcake." (For Chocolate-Cake Flour.) No. 22,479; Feb. 1; v. 283; p. 178.
- Miller Creamery Company. (See Menasha Printing and Carton Company, assignors.)
- Milligan, G. D., Grocer Co., Springfield, Mo. "Missouri." (For Overalls.) No. 23,748; Dec. 13.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Fruits." (For Boxes Containing Chocolate-Covered Fruits.) No. 22,395; Jan. 18; v. 282; p. 563.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Glamouric Assortment." (For Boxes Containing Chocolate Candy.) No. 22,396; Jan. 18; v. 282; p. 563.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Nougat." (For Boxes Containing Chocolate-Covered Nougat.) No. 22,397; Jan. 18; v. 282; p. 563.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Damon Plum Chocolates." (For Boxes Containing Damon Plum Chocolates.) No. 22,398; Jan. 18; v. 282; p. 563.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Novel Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,399; Jan. 18; v. 282; p. 563.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Chewy Centers." (For Boxes Containing Chocolate.) No. 22,400; Jan. 18; v. 282; p. 563.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Cherries Chocolate Covered." (For Boxes Containing Chocolate-Covered Cherries.) No. 22,401; Jan. 18; v. 282; p. 563.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Winu Chocolates." (For Boxes Containing Chocolates.) No. 22,402; Jan. 18; v. 282; p. 563.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Pieces of Eight." (For Boxes Containing Chocolates.) No. 22,403; Jan. 18; v. 282; p. 563.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Nuts." (For Boxes Containing Chocolate-Covered Nuts.) No. 22,404; Jan. 18; v. 282; p. 563.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Bitter Sweets." (For Boxes Containing Bitter-Sweets.) No. 22,405; Jan. 18; v. 282; p. 563.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Hard Center Chocolates." (For Boxes Containing Hard-Center Chocolates.) No. 22,406; Jan. 18; v. 282; p. 563.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Cherries Chocolate Covered." (For Boxes Containing Chocolate-Covered Cherries.) No. 22,480; Feb. 1; v. 283; p. 178.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Creams." (For Boxes Containing Chocolate Creams.) No. 22,481; Feb. 1; v. 283; p. 178.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Coated Cherries." (For Boxes Containing Chocolate-Coated Cherries.) No. 22,482; Feb. 1; v. 283; p. 178.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Albertus Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,483; Feb. 1; v. 283; p. 178.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Bitter Sweets." (For Boxes Containing Bitter-Sweets.) No. 22,484; Feb. 1; v. 283; p. 178.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Nut and Fruit Assortment." (For Boxes Containing Chocolate Candy.) No. 22,485; Feb. 1; v. 283; p. 178.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Art-craft Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,486; Feb. 1; v. 283; p. 178.
- Milwaukee Paper Box Company, Milwaukee, Wis. "High Feather Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,487; Feb. 1; v. 283; p. 178.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Hard Center Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,488; Feb. 1; v. 283; p. 178.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Super-fine Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,489; Feb. 1; v. 283; p. 178.
- Milwaukee Paper Box Company, Milwaukee, Wis. "De Milo Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,490; Feb. 1; v. 283; p. 179.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Assorted Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,491; Feb. 1; v. 283; p. 179.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Pride Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,492; Feb. 1; v. 283; p. 179.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Assorted Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,493; Feb. 1; v. 283; p. 179.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Crafts-man Chocolates." (For Chocolate Candy.) No. 22,546; Feb. 8; v. 283; p. 361.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Every Won a Dainty." (For Chocolate Candy.) No. 22,547; Feb. 8; v. 283; p. 361.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Lushus Assortment." (For Chocolate Candy.) No. 22,548; Feb. 8; v. 283; p. 361.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Light and Dark Chocolates." (For Chocolate Candy.) No. 22,549; Feb. 8; v. 283; p. 361.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Covered Cherries." (For Boxes Containing Chocolate-Covered Cherries.) No. 22,582; Feb. 15; v. 283; p. 549.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Invitation Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,583; Feb. 15; v. 283; p. 549.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolates in Cups." (For Boxes Containing Chocolate Candy.) No. 22,584; Feb. 15; v. 283; p. 549.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Fruits and Nuts in Cream Chocolate Covered." (For Boxes Containing Chocolate Candy.) No. 22,585; Feb. 15; v. 283; p. 549.
- Milwaukee Paper Box Company, Milwaukee, Wis. "National Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,665; Mar. 8; v. 284; p. 376.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Perfection in Confection Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,666; Mar. 8; v. 284; p. 376.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Shrine of Dreams." (For Boxes Containing Chocolate Candy.) No. 22,667; Mar. 8; v. 284; p. 376.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Moon Witchery." (For Boxes Containing Chocolate Candy.) No. 22,699; Mar. 15; v. 284; p. 588.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Fair-land Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,700; Mar. 15; v. 284; p. 588.



- Milwaukee Paper Box Company, Milwaukee, Wis. "Assorted Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,701; Mar. 15; v. 284; p. 588.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Don Quixote Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,702; Mar. 15; v. 284; p. 588.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Nuts and Fruits Chocolate Covered." (For Boxes Containing Chocolate-Covered Nuts and Fruits.) No. 22,752; Mar. 22; v. 284; p. 753.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Fruits and Nuts." (For Boxes Containing Chocolate-Covered Fruits and Nuts.) No. 22,753; Mar. 22; v. 284; p. 754.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Confections." (For Boxes Containing Candy.) No. 22,754; Mar. 22; v. 284; p. 754.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Heart's Desire." (For Boxes Containing Chocolate Candy.) No. 22,755; Mar. 22; v. 284; p. 754.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Dutch Chocolate Shop." (For Boxes Containing Chocolate Candy.) No. 22,756; Mar. 22; v. 284; p. 754.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Garden Girl Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,872; May 3; v. 286; p. 197.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Sherwood Chocolates." (For Boxes Containing Chocolate Candy.) No. 22,873; May 3; v. 286; p. 197.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Venus Chocolates." (For Boxes Containing Chocolate Brazil Nuts.) No. 22,977; May 31; v. 286; p. 1058.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Aunt Molly's Butter Cream." (For Boxes Containing Butter-Creams.) No. 23,043; June 28; v. 287; p. 783.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Delicates." (For Boxes Containing Chocolate Creams, Milk-Chocolates, Nut Centers, and Nougats.) No. 23,088; July 5; v. 288; p. 202.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Favorite Chocolates." (For Boxes Containing Chocolate Candy.) No. 23,089; July 5; v. 288; p. 202.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Coated Dates." (For Boxes Containing Chocolate-Coated Dates.) No. 23,090; July 5; v. 288; p. 202.
- Milwaukee Malt & Grain Co., Milwaukee, Wis. "Malt." (For Malt Syrup.) No. 23,218; Aug. 23; v. 289; p. 797.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Greysolon." (For Boxes Containing Hard-Center Chocolates.) No. 23,219; Aug. 23; v. 289; p. 797.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Fruits and Nuts." (For Boxes Containing Chocolate-Covered Fruits and Nuts.) No. 23,220; Aug. 23; v. 289; p. 797.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Sundial Chocolates." (For Boxes Containing Cream Caramels, Nut Centers, Chewing-Chocolates, and Mellow Centers.) No. 23,307; Aug. 30; v. 289; p. 1020.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Greysolon." (For Boxes Containing Hand-Rolled Bitter Sweets.) No. 23,308; Aug. 30; v. 289; p. 1020.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Rosalie." (For Boxes Containing Chocolate Candy.) No. 23,309; Aug. 30; v. 289; p. 1020.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Gordon's Chocolates." (For Boxes Containing Chocolate Candy.) No. 23,310; Aug. 30; v. 289; p. 1020.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Cordial Cherries." (For Boxes Containing Chocolate Candy.) No. 23,428; Oct. 18.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Assorted Bitter Sweet Chocolates." (For Boxes Containing Assorted Bitter-Sweet Chocolates.) No. 23,564; Oct. 25.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Candies." (For Boxes Containing Candy.) No. 23,565; Oct. 25.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Circe Chocolates." (For Boxes Containing Chocolate Candy.) No. 23,566; Oct. 25.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Billet Deaux." (For Boxes Containing Chocolate Candy.) No. 23,683; Nov. 22.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Mel-O-Del." (For Boxes Containing Chocolate Candy.) No. 23,684; Nov. 22.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Don Juan." (For Boxes Containing Chocolate Candy.) No. 23,685; Nov. 22.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Assorted Chocolates." (For Boxes Containing Assorted Chocolates.) No. 23,686; Nov. 22.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Cherrisweets." (For Boxes Containing Cherries in Candy.) No. 23,687; Nov. 22.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Milk Mints." (For Boxes Containing Milk Mints.) No. 23,688; Nov. 22.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Heath Quality Fruit Cake." (For Boxes Containing Fruit Cake.) No. 23,689; Nov. 22.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Old Mexican Cactus Candy." (For Boxes Containing Candy.) No. 23,749; Dec. 13.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Family Cup-Board." (For Boxes Containing Candy.) No. 23,812; Dec. 20.
- Milwaukee Paper Box Company, Milwaukee, Wis. "Greysolon." (For Boxes Containing Assorted Chocolates.) No. 23,813; Dec. 20.
- Minish, Wm. N., & Son, Elkin, N. C. "Red Lion." (For Laundry Soap.) No. 23,690; Nov. 22.
- Mint Products Company, Inc., Port Chester, N. Y. "Life Saver Pats Butterscotch." (For Candies with a Butter-Scotch Flavor.) No. 23,091; July 5; v. 288; p. 202.
- Mint Products Company, Inc., Port Chester, N. Y. "Life Saver Pats Lemon." (For Candies with a Lemon Flavor.) No. 23,092; July 5; v. 288; p. 202.
- Mint Products Company, Inc., Port Chester, N. Y. "Life Saver Pats Orange." (For Candies with an Orange Flavor.) No. 23,093; July 5; v. 288; p. 202.
- Mint Products Company, Inc., Port Chester, N. Y. "Life Saver Pats Lime." (For Candies with a Lime Flavor.) No. 23,094; July 5; v. 288; p. 202.
- Monarch Bitters Co., Buffalo, N. Y. "Sherry Syrup." (For Syrups for Mixing Soft Drinks.) No. 23,095; July 5; v. 288; p. 202.
- Monarch Bitters Co., Buffalo, N. Y. "Port Syrup." (For Syrups for Mixing Soft Drinks.) No. 23,096; July 5; v. 288; p. 202.
- Montgomery Cigar Company, The, Dayton, Ohio. "Thora." (For Cigars.) No. 22,437; Jan. 25; v. 282; p. 739.
- Moore, E. J., Sons, Inc., New York, N. Y. "Sanger's Pro-Tek-Tubes Prophylactic." (For a Preventive for Venereal Diseases.) No. 22,915; May 24; v. 286; p. 860.
- Moore, Walton N., Dry Goods Co., San Francisco, Calif. "Dreadnought." (For Work-Shirts.) No. 23,691; Nov. 22.
- Moreau Importing & Exporting Co., Chicago, Ill. "The Famous Agourouladon." (For Olive-Oil.) No. 23,750; Dec. 13.
- Moreau, Victor, New Orleans, La. "U-No-Me." (For Cigars and Boxes Containing Same.) No. 22,978; May 31; v. 286; p. 1058.
- Morgan, S. H., Manufacturing Company, Pasadena, Calif. "Morgan's Magic Skin Food." (For Cold-Cream.) No. 22,494; Feb. 1; v. 283; p. 179.
- Morgan, S. H., Manufacturing Company, Pasadena, Calif. "Morgan's Magic Day Cream." (For Cold-Cream.) No. 22,495; Feb. 1; v. 283; p. 179.
- Morgan, S. H., Manufacturing Company, Pasadena, Calif. "Morgan's Complexion Candies." (For Complexion-Candy.) No. 22,496; Feb. 1; v. 283; p. 179.
- Morgan, S. H., Manufacturing Company, Pasadena, Calif. "Morgan's Magic Shaving Lotion." (For Shaving-Lotion.) No. 22,757; Mar. 22; v. 284; p. 754.
- Morgan, S. H., Manufacturing Company, Pasadena, Calif. "Morgan's Tar Tonic." (For Tar Tonic.) No. 22,758; Mar. 22; v. 284; p. 754.
- Morgan, S. H., Manufacturing Company, Pasadena, Calif. "Morgan's Hair Food." (For Hair Food.) No. 22,759; Mar. 22; v. 284; p. 754.
- Morgan, S. H., Manufacturing Company, Pasadena, Calif. "Morgan's Vegetable Face Lotion." (For Face-Lotion.) No. 22,760; Mar. 22; v. 284; p. 754.
- Morgan, S. H., Manufacturing Company, Pasadena, Calif. "Morgan's Magic Cold Cream." (For Cold-Cream.) No. 23,485; Oct. 18.
- Moreland, Maggie M., Council Bluffs, Iowa. "M M." (For Remedy for Eczema.) No. 22,407; Jan. 18; v. 282; p. 563.
- Morle, Richard G., Brooklyn, N. Y. "Nutties." (For Candy of Nut Variety.) No. 23,144; July 26; v. 288; p. 827.
- Morris, Mann & Reilly, Chicago, Ill. "Red Seal Pure Wool Powder Puffs." (For Powder-Puffs.) No. 23,391; Sept. 6; v. 290; p. 224.
- Morris, Mann & Reilly, Chicago, Ill. "Red Seal Rubber Baby Pants." (For Baby-Pants.) No. 23,428; Sept. 13; v. 290; p. 431.
- Morrison, Joseph P., Mount Carmel, Pa. "Dr. Morrison's Mouth Cleanser." (For a Preparation for Cleansing the Mouth and Teeth.) No. 23,567; Oct. 25.
- Morrison-Ricker Mfg. Company, Grinnell, Iowa. "The Future President Starts to School." (For Gloves.) No. 22,550; Feb. 8; v. 283; p. 361.
- Morville, Mariano, New York, N. Y. "Pruno-Lax." (For Laxatives.) No. 23,751; Dec. 13.
- Mott & Wood Co., Wisconsin Rapids, Wis. "Heathmade Arrow Brand Butter." (For Butter.) No. 23,752; Dec. 13.
- Mountain Grove Creamery Ice and Electric Co. (See Menasha Printing and Carton Company, assignors.)
- Mountain Grove Creamery Ice and Electric Company, Mountain Grove, Mo. "Jersey Gold." (For Butter.) No. 23,009; June 14; v. 287; p. 403.
- Mowry Creamery Company. (See Menasha Printing and Carton Company, assignor.)
- Murray, John F., New York, N. Y. "Macbeth's Ox Gall Tablets Compound." (For Cartons or Boxes Inclosing or Containing a Pharmaceutical Preparation or Compound Containing Ox-Gall.) No. 23,692; Nov. 22.
- Murray, John F., New York, N. Y. "Macbeth's Ox Gall Tablets Compound." (For Cartons or Boxes Inclosing or Containing a Pharmaceutical Preparation or Compound Containing Ox-Gall.) No. 23,693; Nov. 22.



*Alphabetical list of registrants of labels—Continued.*

- Munyon's Homeopathic Home Remedy Co., Philadelphia, Pa. "Iron and Nux." (For a Tonic.) No. 22,551; Feb. 8; v. 283; p. 361.
- Munyon's Homeopathic Home Remedy Company, Scranton, Pa. "Munyon's Horke Vino." (For a Natural Health-Tonic.) No. 22,761; Mar. 22; v. 284; p. 754.
- Muscalet Beverage Co., New York, N. Y. "Muscalet." (For Beverage Made from Pure Mashed Fruits.) No. 22,408; Jan. 18; v. 282; p. 563.
- Muscalet Beverage Company, New York, N. Y. "Wink." (For 6½ Oz. Bottles Containing a Delicious Drink Made from Orange and other Similar Flavors.) No. 23,486; Oct. 18.
- Mutual Orange Distributors, Redlands, Calif. "Sunflower." (For Oranges.) No. 23,814; Dec. 20.
- Nafziger Baking Company, Kansas City, Mo. "Nafziger Certified Bread." (For Bread.) No. 22,916; May 24; v. 286; p. 860.
- National Brewing Company, New Orleans, La. "Dr. Root's Genuine Root Beer, Nature's Wonder Drink." (For Root-Beer.) No. 22,874; May 3; v. 286; p. 197.
- National Broom Manufacturers Association, Chicago, Ill. "Protexu." (For Brooms.) No. 22,497; Feb. 1; v. 283; p. 179.
- National Carbon Company, Inc., New York, N. Y. "Eveready Marine Lighting and Ignition Battery." (For Electric Batteries.) No. 23,225; Aug. 23; v. 289; p. 797.
- National Carbon Company, Inc., New York, N. Y. "Eveready Bell Ringer." (For Electric Batteries.) No. 23,226; Aug. 23; v. 289; p. 797.
- National Carbon Company, Inc., New York, N. Y. "Eveready Motor Boat Battery." (For Electric Batteries.) No. 23,227; Aug. 23; v. 289; p. 797.
- National Carbon Company, Inc., New York, N. Y. "Columbia Bell Ringer." (For Electric Batteries.) No. 23,228; Aug. 23; v. 289; p. 797.
- National Carbon Company, Inc., New York, N. Y. "Eveready Ford Lighting Battery." (For Electric Batteries.) No. 23,311; Aug. 30; v. 289; p. 1020.
- National Carbon Company, Inc., New York, N. Y. "Eveready Ford Ignition Battery." (For Electric Batteries.) No. 23,312; Aug. 30; v. 289; p. 1020.
- National Carbon Company, Inc., New York, N. Y. "Eveready Gas Engine Battery." (For Electric Batteries.) No. 23,313; Aug. 30; v. 289; p. 1020.
- National Carbon Company, Inc., New York, N. Y. "Eveready Portable Lighting Battery." (For Electric Batteries.) No. 23,314; Aug. 30; v. 289; p. 1020.
- National Carbon Company, Inc., New York, N. Y. "Eveready Tractor Battery." (For Electric Batteries.) No. 23,315; Aug. 30; v. 289; p. 1020.
- National Carbon Company, Inc., New York, N. Y. "Eveready Lighting and Ignition Battery." (For Electric Batteries.) No. 23,316; Aug. 30; v. 289; p. 1020.
- National Cry. & Produce Co. (See Menasha Printing and Carton Company, assignor.)
- National Dairy Company. (See Menasha Printing and Carton Company, assignors.)
- National Flour Products Company, The, Oklahoma, Okla. "Magic Cake Ready to Bake." (For Cake Compounds.) No. 22,438; Jan. 25; v. 282; p. 739.
- National Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
- National Licorice Company, Brooklyn, N. Y. "Y & S." (For Stick-Licorice, Licorice Lozenges, and Licorice Wafers.) No. 23,229; Aug. 23; v. 289; p. 797.
- National Paper Can Company, The, Milwaukee, Wis. "Pure Sugar Stick Candy." (For Stick-Candy.) No. 23,392; Sept. 6; v. 290; p. 224.
- Native Son Orchards Co., Lindsay, Calif. "Wonderful." (For Pomegranates.) No. 22,852; Mar. 29; v. 284; p. 956.
- Neches Creamery Company. (See Menasha Printing and Carton Company, assignor.)
- Needham Products Co., The, Cleveland, Ohio. "Needham's Hay Fever Spray." (For Sprays for the Relief of Hay-Fever.) No. 23,640; Nov. 8.
- Neilsen's, Charles J., Sons, Brooklyn, N. Y. "La Flor De C. J. N." (For Cigars.) No. 23,232; Aug. 23; v. 289; p. 797.
- Neuman, H. L., Company. (See Menasha Printing and Carton Company, assignors.)
- Nevin, Gus W., Cincinnati, Ohio. "T. N. O. Metal Polish." (For Metal-Polish for Silver, Brass, Copper, and Nickel.) No. 23,568; Oct. 25.
- New England Confectionery Company, Boston, Mass. "Necco Sweets." (For Candy.) No. 23,815; Dec. 20.
- New York Canners, Inc., Rochester, N. Y. "Osborn's Apple Sauce." (For Apple Sauce.) No. 23,231; Aug. 23; v. 289; p. 797.
- New York Mackintosh Clothing Co., New York, N. Y. "Bestyette." (For Waterproof Outer Garments.) No. 22,439; Jan. 25; v. 282; p. 739.
- Newark Paraffine & Parchment Paper Co., Newark, N. J., Columbus, Ohio, and New York, N. Y. "Pilgrim Bread." (For Bread.) No. 22,762; Mar. 22; v. 284; p. 754.
- Newark Paraffine & Parchment Paper Co., Newark, N. J., Columbus, Ohio, and New York, N. Y. "Graham Bread." (For Bread.) No. 23,317; Aug. 30; v. 289; p. 1020.
- Newbro Manufacturing Company, Atlanta, Ga. "Queen." (For Bottles and Packages of Hair-Dressing.) No. 23,230; Aug. 23; v. 289; p. 797.
- Newhall, H. M., & Co., San Francisco, Calif. "Newhall." (For Sardines.) No. 22,498; Feb. 1; v. 283; p. 179.
- Newhall, H. M., & Co., San Francisco, Calif. "Newhall." (For Asparagus-Tips.) No. 22,499; Feb. 1; v. 283; p. 179.
- Nicomors Products Company, The, Cleveland, Ohio. "The Smokers Gum." (For Chewing-Gum.) No. 23,429; Sept. 13; v. 290; p. 431.
- Nicomors Products Company, The, Cleveland, Ohio. "Nicomors the Super-Gum." (For Chewing-Gum.) No. 23,694; Nov. 22.
- Nieto, Vicente, & Bros., San Francisco, Calif. "Vicente Nieto." (For Cigars.) No. 22,418; Jan. 18; v. 282; p. 563.
- Norris, Inc., Atlanta, Ga. "Norris Assorted Chocolates Special Selected Centres." (For Candy.) No. 22,703; Mar. 15; v. 284; p. 588.
- Norris, Inc., Atlanta, Ga. "Norris Old Fashioned Peanut Brittle." (For Candy.) No. 22,704; Mar. 15; v. 284; p. 588.
- Norris, Inc., Atlanta, Ga. "Norris Exquisite Candies." (For Candies.) No. 22,705; Mar. 15; v. 284; p. 588.
- Norris, Inc., Atlanta, Ga. "Chocolate Sirrons." (For Candies.) No. 22,706; Mar. 15; v. 284; p. 588.
- Norris, Inc., Atlanta, Ga. "Norris Old Fashioned Peanut Brittle." (For Candy.) No. 22,707; Mar. 15; v. 284; p. 588.
- Norris, Inc., Atlanta, Ga. "Chocolate Covered Nuts and Fruits." (For Candies.) No. 22,708; Mar. 15; v. 284; p. 588.
- Norris, Inc., Atlanta, Ga. "Norris Assorted Nut Chocolates." (For Candy.) No. 22,709; Mar. 15; v. 284; p. 588.
- Norris, Inc., Atlanta, Ga. "Norris Chocolate Cream Brazil Nuts." (For Candy.) No. 22,710; Mar. 15; v. 284; p. 588.
- Norris, Inc., Atlanta, Ga. "The Variety Package." (For Candy.) No. 22,763; Mar. 22; v. 284; p. 754.
- Norris, Inc., Atlanta, Ga. "Chocolates and Bon Bons." (For Chocolates and Bonbons.) No. 22,764; Mar. 22; v. 284; p. 754.
- Norris, Inc., Atlanta, Ga. "Sugared Pecans." (For Candy.) No. 22,875; May 3; v. 286; p. 197.
- North American Fruit Exchange, Jersey City, N. J., and New York, N. Y. "Sugarmelons." (For Watermelons.) No. 22,668; Mar. 8; v. 284; p. 376.
- Northern Iowa Produce Company. (See Menasha Printing and Carton Company, assignors.)
- Northrup, King & Co., Minneapolis, Minn. "King Pop Corn." (For Cartons for Our First-Grade Popcorn.) No. 22,385; Jan. 11; v. 282; p. 384.
- Northrup, King & Co., Minneapolis, Minn. "Sterling Dairy Feed." (For Bags of Dairy Feed.) No. 23,318; Aug. 30; v. 289; p. 1020.
- Northrup, King & Co., Minneapolis, Minn. "Sterling Scratch Feed." (For Bags of Poultry Feed.) No. 23,319; Aug. 30; v. 289; p. 1020.
- Northrup, King & Co., Minneapolis, Minn. "Sterling Egg Mash." (For Bags of Poultry Feed.) No. 23,320; Aug. 30; v. 289; p. 1020.
- Northrup, King & Co., Minneapolis, Minn. "No Kill Scratch Feed." (For Bags of Poultry Feed.) No. 23,393; Sept. 6; v. 290; p. 224.
- Northrup, King & Co., Minneapolis, Minn. "Northrup, King & Co.'s Sterling Buttermilk Mash." (For Bags of Poultry Feed.) No. 23,487; Oct. 18.
- Northrup, King & Co., Minneapolis, Minn. "Northrup, King & Co.'s Special Scratch Feed." (For Bags of Poultry Feed.) No. 23,753; Dec. 13.
- Nuforal Laboratories, Inc., New York, N. Y. "Nuforal." (For Preparation to be Used in Connection with the Treatment of Tuberculosis.) No. 23,044; June 28; v. 287; p. 783.
- Nuss Confectionery Co., The, Cincinnati, Ohio. "Nuss Butter Cream Specialties." (For Cream Confections.) Nos. 23,816-8; Dec. 20.
- Nuss Confectionery Co., The, Cincinnati, Ohio. "Milk-Maid Creams." (For Cream Confections.) No. 23,856; Dec. 27.
- Nu-Tone Company, The, Churubusco, Ind. "Nu-Tone." (For a Liquid Preparation for Treatment of Hog Diseases.) No. 22,669; Mar. 8; v. 284; p. 376.
- Nuttleman, Fred H., Westhoff, Tex. "Turkey Trot Cigars." (For Boxes Containing Cigars.) No. 23,010; June 14; v. 287; p. 403.
- Odell, R. & Sons Co., Newark, N. J. "Petrol Hair Tonic." (For Packages Containing Petrol Hair-Tonic.) No. 22,833; Mar. 29; v. 284; p. 956.
- Odom Ice Cream Company. (See Menasha Printing and Carton Company, assignors.)
- Olsen, Andrew, Jr., San Francisco, Calif. "Trilo Nuggets." (For Packages Containing Candy and Confectionery.) No. 23,394; Sept. 6; v. 290; p. 224.
- Olsen, Andrew, Jr., San Francisco, Calif. "Walnut Nuggets." (For Packages Containing Candy and Confectionery.) No. 23,395; Sept. 6; v. 290; p. 224.
- Oppenheimer, A. E., & Bro., Philadelphia, Pa. "Princess Hair Pins." (For Boxes and Packages Containing Hair-Pins.) No. 23,396; Sept. 6; v. 290; p. 224.
- Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. "Sealpax." (For Underwear for Men.) No. 22,834; Mar. 29; v. 284; p. 956.



- Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. "Lady Sealpax." (For Underwear for Ladies and Children.) No. 22,835; Mar. 29; v. 284; p. 956.
- Oppy's Cigar Stores, Inc., New York, N. Y. "Oppy's Special." (For Boxes Containing Cigars.) No. 22,918; May 24; v. 286; p. 860.
- Oshkosh Seed Company, Oshkosh, Wis. "Checker Insecticide." (For Garden-Insecticides.) No. 23,145; July 26; v. 288; p. 827.
- Ottawa Condensing Co., The, Ottawa, Kans. "Golden Cream." (For Creamery-Butter.) No. 22,917; May 24; v. 286; p. 860.
- Owens & Collins Co., Lodi, Calif. "Royal Arch." (For Grapes.) No. 23,695; Nov. 22.
- Oxydene Mfg. Corp., Buffalo, N. Y. "Whip-Ezey." (For a Preparation for Whipping Thin Cream, Evaporated Milk, White of Eggs, and Top Cream.) No. 22,876; May 3; v. 286; p. 187.
- Pacific Co-Operative Poultry Producers, Portland, Oreg. "Nu-Lade Eggs." (For Eggs.) No. 23,430; Sept. 13; v. 290; p. 431.
- Pacific Knitting Mills, Los Angeles, Calif. "Bentz Knit Wear Ribstitch." (For Knit Wear.) No. 22,711; Mar. 15; v. 284; p. 588.
- Pagoda Import Company, Inc., New York and Brooklyn, N. Y. "Parfait." (For Hair-Nets.) No. 23,488; Oct. 18.
- Park & Pollard Co., The, Boston, Mass. "Baby Buster." (For Chick Feed.) No. 23,431; Sept. 13; v. 290; p. 431.
- Park Produce Co. (See Menasha Printing and Carton Company, assignor.)
- Paris Cigar Company, The, Paris, Mo. "Queen of Paris." (For Cigars.) No. 23,233; Aug. 23; v. 289; p. 797.
- Parker, Eugene, Baltimore, Md. "Parker's Dandruff Mange Treatment." (For a Medicinal Compound for Treating Dandruff and Mange.) No. 22,919; May 24; v. 286; p. 860.
- Passaic Ice Cream Co. (See Menasha Printing and Carton Company, assignor.)
- Pasquale Ruggiano, New York, N. Y. "Ras Mangascia." (For Tonic for Hair and Scalp.) No. 22,877; May 3; v. 286; p. 197.
- Patent Cereals Company, The, Geneva, N. Y. "Sun-Seal Sunnycorn." (For a Breakfast Cereal Made of Corn.) No. 23,432; Sept. 13; v. 290; p. 431.
- Pathe Freres Phonograph Company, Brooklyn, N. Y. "Actuelle." (For Phonograph-Records.) No. 22,836; Mar. 29; v. 284; p. 956.
- Patterson, M. F., Dental Supply Company, St. Paul, Minn. "Knapp's Outer Investment." (For Dental Investment Material.) No. 23,696; Nov. 22.
- Patterson, M. F., Dental Supply Company, St. Paul, Minn. "Knapp's Inner Investment." (For Dental Investment Material.) No. 23,697; Nov. 22.
- Patton Creamery Company. (See Menasha Printing and Carton Company, assignor.)
- Peco Manufacturing Co., New York, N. Y. "Typeolene." (For a Liquid Preparation for Cleaning Typewriter-Type.) No. 22,670; Mar. 8; v. 284; p. 376.
- Pedrick, L. Laurence E., Salem, Mass. "Snow Drop." (For Foot-Salve.) No. 23,489; Oct. 18.
- Peerless Ice Cream Co. (See Menasha Printing and Carton Company, assignor.)
- Penick & Ford, Ltd., Inc., New Orleans, La. "Peacock." (For Syrup.) Nos. 22,440-1; Jan. 25; v. 282; p. 739.
- Penick & Ford, Ltd., Inc., New Orleans, La. "Brer Fox." (For Corn-Syrup and Refiner's Syrup.) No. 23,490; Oct. 18.
- Peninsular Chemical Co., Seattle, Wash. "Renuzlt." (For Containers Containing Furniture Cleaner and Dressing.) No. 22,979; May 31; v. 286; p. 1058.
- Penn Brass Manufacturing Co., Cleveland, Ohio. "Penn." (For Receptacles Containing Brass Goods.) No. 23,819; Dec. 20.
- Pennsylvania Chocolate Company, Pittsburgh, Pa. "Zay-Tek." (For Almond Sweet Chocolate.) No. 22,409; Jan. 18; v. 282; p. 563.
- Pennsylvania Chocolate Company, Pittsburgh, Pa. "Poms Sweet Chocolate." (For Sweet Chocolate.) No. 22,552; Feb. 8; v. 283; p. 361.
- Pep-Step Corp., Cedar Rapids, Iowa. "Pep-Step." (For Cartons Containing Foot-Pads.) No. 23,397; Sept. 6; v. 290; p. 224.
- Petraccione, Louis, Cambridge, Mass. "Evangelical Brothers Newcall." (For Handkerchiefs.) No. 22,765; Mar. 22; v. 284; p. 754.
- Peyton Paper Co., Duluth, Minn. "Peyton Linen Lawn." (For Correspondence-Paper.) No. 23,118; July 12; v. 288; p. 430.
- Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. "Fine Climax Egg Noodles." (For Noodles.) No. 23,754; Dec. 13.
- Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. "Broad Climax Egg Noodles." (For Noodles.) No. 23,755; Dec. 13.
- Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. "Broad Star Noodles." (For Noodles.) No. 23,756; Dec. 16.
- Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. "Fine Star Noodles." (For Noodles.) No. 23,757; Dec. 13.
- Pfaffmann Egg Noodle Co., The, Cleveland, Ohio. "Red-D Cut Macaroni." (For Macaroni.) No. 23,758; Dec. 13.
- Phillips, Edward C., Webster Grove, Mo. "Tri A Mint." (For Candy Confections.) No. 23,820; Dec. 20.
- Philo-Derma Company, The, Chicago, Ill. "Philo-Derma." (For the Skin.) No. 22,410; Jan. 18; v. 282; p. 563.
- Phoenix Drug Co., Cincinnati, Ohio. "Rosy Dep-urants." (For Containers for a Cathartic Drug Preparation in Tablet Form.) No. 23,321; Aug. 30; v. 289; p. 1020.
- Pickerill Rubber Company, St. Louis, Mo. "The Oil Kingdom." (For Oil-Proof Clothing.) No. 22,838; Mar. 29; v. 284; p. 956.
- Piel Bros., Inc., Brooklyn, N. Y. "Piel's Pippin Ale." (For a Beverage.) No. 22,553; Feb. 8; v. 283; p. 361.
- Pillsbury, John C., Whitefield, N. H. "Pillsbury's Toasted Nut Kisses." (For Candy.) No. 23,491; Oct. 18.
- Pine Salve Co., Norfolk, Va. "Pine Salve." (For Bottles Containing Soothing and Healing Salve.) No. 23,398; Sept. 6; v. 290; p. 224.
- Pingree, Claire H., Wilmette, Ill. "Pingree's Old Glory Brand." (For Coffee.) No. 23,492; Oct. 18.
- Pioneer Creamery Co., Galesburg, Ill. "One Dozen Extra Selected Corn Belt Large Size Eggs." (For Cartons Containing Eggs.) No. 23,045; June 28; v. 287; p. 783.
- Pioneer Suspender Company, Philadelphia, Pa. "Pioneer Brighton Wide-Web Garter." (For Men's Garters.) No. 22,608; Mar. 1; v. 284; p. 180.
- Poehlman, John, & Sons, Baltimore, Md. "Daisy Bloom." (For Butter.) No. 22,839; Mar. 29; v. 284; p. 856.
- Polar Products Co. (See Menasha Printing and Carton Company, assignor.)
- Polk, J. T., Company, Chicago, Ill. "Polk's." (For Juice of Grapefruit.) No. 22,840; Mar. 29; v. 284; p. 956.
- Pontecorvo, Louis, New York, N. Y. "Ferro-China Pontecorvo." (For a Tonic.) No. 22,554; Feb. 8; v. 283; p. 361.
- Poor, Charles L., Co., New York, N. Y. "Kisaki." (For Nainsook.) No. 23,097; July 5; v. 288; p. 202.
- Popel-Giller Co., Warsaw, Ill. "Instant Pilsener Brand." (For Malt and Hop Syrup.) No. 23,698; Nov. 22.
- Porto Rico Consolidated Fruit Company, Buffalo, N. Y. "Porto Rico Juicful Grapefruit." (For Grapefruit.) No. 23,322; Aug. 30; v. 289; p. 1020.
- Porto Rico Consolidated Fruit Company, Buffalo, N. Y. "Porto Rico Juicful Pineapple." (For Pineapples.) No. 23,323; Aug. 30; v. 289; p. 1020.
- Porto Rico Consolidated Fruit Company, Buffalo, N. Y. "Porto Rico Juicful Orange." (For Oranges.) No. 23,324; Aug. 30; v. 289; p. 1020.
- Potomac Butter Company. (See Menasha Printing and Carton Company, assignors.)
- Premier Malt Products Co. of Ohio, Inc., Steubenville, Ohio. "Premex." (For Malt Syrup.) No. 23,234; Aug. 23; v. 289; p. 797.
- Price Food Products Corporation, Minneapolis, Minn. "Dr. Price's Rolled Oats." (For Packages Containing Cereal Rolled Oats.) No. 23,493; Oct. 18.
- Purity Cream Cheese Company, The, Cleveland, Ohio. "Imported Liptauer." (For Brindza Cheese, Otherwise Known as Imported Liptauer or Sheep-Milk Cheese.) No. 23,821; Dec. 20.
- Purity Malt Extract Co., Chicago, Ill. "Purity Brand Bohemian Malt Extract." (For Extracts for Food and Beverage Purposes.) No. 23,641; Nov. 8.
- Purity Malt Extract Co., Chicago, Ill. "Purity Brand Beverage Coloring." (For Extracts for Coloring Beverage.) No. 23,642; Nov. 8.
- Purity Malt Extract Co., Chicago, Ill. "Purity Brand Imported Bohemian Hops." (For Hops.) No. 23,643; Nov. 8.
- Purity Malt Extract Co., Chicago, Ill. "Purity Brand Root Beer Extract." (For Extracts for Beverage Purposes.) No. 23,644; Nov. 8.
- Purity Malt Extract Co., Chicago, Ill. "Purity Brand Domestic Malt Extract Light." (For Extracts for Food and Beverage Purposes.) No. 23,645; Nov. 8.
- Pye, J. H., Chicago, Ill. "Renovatore Hair Tonic." (For Hair-Tonic.) No. 22,841; Mar. 29; v. 284; p. 956.
- Pyrokuro Company, Pittsburgh, Pa. "Pyrokuro." (For a Liquid Perparation Intended for the Treatment of Bleeding Gums.) No. 22,920; May 24; v. 286; p. 860.
- Quaker Creamery Company, The. (See Menasha Printing and Carton Company, assignors.)
- Quintaline Co. of Am., Inc., The, Buffalo, N. Y. "Quintaline." (For an Ointment for Congested and Inflammatory Conditions.) No. 23,857; Dec. 27.
- R. & R. Handkerchief Co., New York, N. Y. "A Childs Handkerchief for Every Day in the Week." (For Boxes for Handkerchiefs.) No. 23,718; Nov. 29.
- Raabe & Bowman, Philadelphia, Pa. "Cleatrac." (For Pharmaceutical Preparation for Treatment of Constipation.) No. 22,766; Mar. 22; v. 284; p. 754.
- Ralston Purina Company, St. Louis, Mo. "Ralston a Wheat Food." (For Cereal Foods.) No. 22,586; Feb. 15; v. 283; p. 549.
- Ralston Purina Company, St. Louis, Mo. "Ralston a Wheat Food." (For Cereal Food.) No. 23,046; June 28; v. 287; p. 783.
- Randall, Mrs. Maude O., Cottonwood, Idaho. "Mrs. Randall's Cream Salad Dressing." (For Receptacles Containing Salad Dressing.) No. 23,024; June 21; v. 287; p. 592.
- Ranelis, H. N., Milwaukee, Wis. "Mephisto A Devil-Ish Good Smoke." (For Cigar-Boxes and Cigars.) No. 23,494; Oct. 18.
- Rassias, George L., Brooklyn, N. Y. "Goody-Mints Candy." (For Candy.) No. 23,822; Dec. 20.



## Alphabetical list of registrants of labels—Continued.

- Rathburn, Mark, Omaha, Nebr. "Granny White's Remedy." (For Preparation for Treatment of Catarrhal Conditions of the Vaginal Mucous Membrane, Inflammation, and Leucorrhea.) No. 23,011; June 14; v. 287; p. 403.
- Ray-Maling Co. Inc., Hillsboro, Oreg. "Raymal." (For Canned Loganberries.) No. 22,500; Feb. 1; v. 283; p. 179.
- Real Silk Hosiery Mills, Indianapolis, Ind. "Real Silk Fashioned Hosiery." (For Containers for Hosiery.) Nos. 23,759-60; Dec. 13.
- Real Silk Hosiery Mills, Indianapolis, Ind. "Real Silk Hose." (For Containers for Hose.) No. 23,761; Dec. 13.
- Real Silk Hosiery Mills, Indianapolis, Ind. "Dear Customer: Here Are Suggestions for the Care of Real Silk Hose." (For Containers for Hosiery.) No. 23,823; Dec. 20.
- Real Silk Hosiery Mills, Indianapolis, Ind. "Dear Customer: Here Are Suggestions for the Care of Real Silk Fashioned Hosiery." (For Containers for Hosiery.) No. 23,824; Dec. 20.
- Real Silk Hosiery Mills, Indianapolis, Ind. "C. O. D." (For Containers for Hosiery.) No. 23,825; Dec. 20.
- Reardon, John J., Philadelphia, Pa. "Celtic Ginger Ale." (For Ginger-Ale.) No. 22,411; Jan. 18; v. 282; p. 563.
- Red Raven Corporation, The, Red Raven, Pa. "Billy Baxter." (For Bottles or Packages Containing Ginger-Ale.) No. 23,235; Aug. 23; v. 289; p. 797.
- Red Top Malt Extract Co., Cincinnati, Ohio. "Red Top." (For Tin Cans Containing Malt Extracts.) No. 23,495; Oct. 18.
- Red Top Malt Extract Co., Cincinnati, Ohio. "Barbarossa." (For Tin-Cans Containing Malt and Hop Extract.) No. 23,569; Oct. 25.
- Reedley Canning Co., Reedley, Calif. "Reedley." (For Canned Apricots.) No. 23,012; June 14; v. 287; p. 403.
- Reich, Alter, New York, N. Y. "Re Ju-Tonic." (For a Preparation in Powder Form for a Stimulating-Tonic for the Blood and Nerves.) No. 22,922; May 24; v. 286; p. 860.
- Reitman Mfg. Co., Chicago, Ill. "Pollyanna Ready to Make Doll Clothes Sets." (For Doll-Clothes.) No. 22,921; May 24; v. 286; p. 860.
- Reitz, Math W. W., Los Angeles, Calif. "C. R. Emulsified Brand Coconut Oil Hair Shampoo." (For Hair-Shampoo.) No. 22,501; Feb. 1; v. 283; p. 179.
- Republic Metalware Company, Buffalo, N. Y. "R M Wash Boiler—Helps Make the Perfect Wash Day—Reliably Made by Hand." (For Washboilers.) No. 23,399; Sept. 6; v. 290; p. 224.
- Reus Bros. Co., The, Baltimore, Md. "No Smoking." (For Advertising Purposes for Piston-Rings.) No. 23,570; Oct. 25.
- Rice Products Co. Inc., New Orleans, La. "Ricet." (For a Rice Food.) No. 23,496; Oct. 18.
- Richland Milling Company, Belleville, Ill. "Perfect Baking Always with Perfect Day Flour." (For Flour.) No. 22,923; May 24; v. 286; p. 860.
- Richmond Chase Company, San José, Calif. "Everybody's." (For Canned Apricots.) No. 22,924; May 24; v. 286; p. 860.
- Richmond Sundry Company, Inc., Richmond, Va. "Hold-Phast." (For Hair-Nets.) No. 23,497; Oct. 18.
- Rico Milk Products Company, East Troy, Wis. "Walter Jahn's Rico Super-Cream." (For An Evaporated Cream for Table Use.) No. 22,609; Mar. 1; v. 284; p. 180.
- Rider, S. A., Company, Chicago, Ill. "Ridernet." (For Hair-Nets.) No. 23,699; Nov. 22.
- Rieck McJunkin Dairy Co. (See Menasha Printing and Carton Company, assignor.)
- Riegler, Julie H., San Antonio, Tex. "Bluebonnet Chocolates." (For Chocolates.) No. 22,442; Jan. 25; v. 282; p. 739.
- Roanoke Candy Company, Inc., Roanoke, Va. "Big Lick." (For Hard Candy on Sticks.) No. 23,168; Aug. 9; v. 289; p. 409.
- Robert, Charles J., Detroit, Mich. "Robert's Hair Fertilizer." (For Treatment of Scalp Diseases, and for Growing Hair.) No. 22,502; Feb. 1; v. 283; p. 179.
- Robertson & Sons Shoe Repairers, Inc., New York, N. Y. "Rubber Shoe Repair Patch." (For Repair-Patches for Rubber Footwear.) No. 23,098; July 5; v. 288; p. 202.
- Robinson, Edward D., Baltimore, Md. "Fedeco." (For Containers for Hair-Tonic.) No. 23,826; Dec. 20.
- Robinson, Edward D., Baltimore, Md. "Fedeco." (For Containers for Coconut Oil Shampoo.) No. 23,827; Dec. 20.
- Robinson, L. & Co., Inc., New York, N. Y. "Right Good Fit." (For Boys' Clothing.) No. 22,555; Feb. 8; v. 283; p. 361.
- Robinson, W. H., Cairo, Ga. "White Label Brand." (For Pure Georgia Cane-Syrup.) No. 23,400; Sept. 6; v. 290; p. 224.
- Rochester Ice Cream Co. (See Menasha Printing and Carton Company, assignor.)
- Rode, J. & Son, Long Island City, N. Y. "Owl Brand Pure Malt Extract." (For Tin Cans Containing Malt Extract.) No. 22,671; Mar. 8; v. 284; p. 376.
- Rolle, John B., Minneapolis, Minn. "The Success of the French Kitchen." (For Onion-Flavor Extract.) No. 22,587; Feb. 15; v. 283; p. 549.
- Rolle, John B., Minneapolis, Minn. "The Success of the French Kitchen." (For Garlic-Flavor Extract.) No. 22,588; Feb. 15; v. 283; p. 549.
- Rose and Weintraub Baking Company, Kansas City, Mo. "Golden Crust." (For Bread.) No. 23,498; Oct. 18.
- Rosen, M. H., & Co., New York, N. Y. "Yale Shirt." (For Shirts.) No. 22,768; Mar. 22; v. 284; p. 754.
- Rosen, M. H. & Co., New York, N. Y. "Flannel Wuitex Shirt." (For Flannel Shirts.) No. 22,769; Mar. 22; v. 284; p. 754.
- Rosin, Fred, Philadelphia, Pa. "Oriental Liniment." (For a Liniment.) No. 23,236; Aug. 23; v. 289; p. 797.
- Ross, George A., Forestville, Calif. "U S Brand." (For Gravenstein Apples.) No. 23,700; Nov. 22.
- Royal Scottish Golf Co. Limited, Brooklyn, N. Y. "Royal Scottish Golf Co. Limited Standard Ball." (For Card-board Boxes Containing Golf-Balls.) No. 23,401; Sept. 6; v. 290; p. 224.
- Royal Worcester Corset Co., Worcester, Mass. "Supreme Quality Bon Ton Corsets, the Most Fashionable and Perfect Fitting Corsets." (For Boxes in Which Corsets are Packed.) No. 23,571; Oct. 25.
- Rubens, Chas., & Co., Chicago, Ill. "Lady Prim." (For Hair-Nets.) No. 23,762; Dec. 13.
- Ruch-Drompp Grocery Co., Logansport, Ind. "Kiddle Knead." (For Bread.) No. 23,099; July 5; v. 288; p. 202.
- Runkel Brothers, Inc., New York, N. Y. "All-Purpose Cocoa." (For Cocoa.) No. 22,412; Jan. 18; v. 282; p. 563.
- Russell-Greiver-Russell, Chicago, Ill. "Animated Cartoon of Auto Alley." (For Non-Serial Motion-Picture Films.) No. 22,878; May 3; v. 286; p. 197.
- Russell-Greiver-Russell, Chicago, Ill. "Animated Cartoon of Gasoline Alley." (For Non-Serial Motion-Picture Films.) No. 22,879; May 3; v. 286; p. 197.
- St. Albans Grain Company, St. Albans, Vt. "Worthmore Buttermilk Baby-Chick Food." (For Buttermilk Baby-Chick Food.) No. 23,405; Sept. 6; v. 290; p. 224.
- St. Regis Confectionery Company, Houston, Tex. "La Poloma Mexican Pralines." (For Nut-Candy.) No. 22,593; Feb. 15; v. 283; p. 549.
- Sam Seelig Company. (See Menasha Printing and Carton Company, assignor.)
- Samstag & Hilder Bros., New York, N. Y. "The Royal Lady." (For Hair-Nets.) No. 23,646; Nov. 8.
- Samstag & Hilder Bros., New York, N. Y. "The Noble Lady." (For Hair-Nets.) No. 23,763; Dec. 13.
- Sanders and Weinstein, New York, N. Y. "Tailored—Ready Art Clothes." (For Clothing.) No. 23,764; Dec. 13.
- Sanger Bros. Inc., New York, N. Y., and Dallas, Tex. "Gold Standard." (For Cotton Piece Goods.) No. 23,572; Oct. 25.
- Sanitary Bakery. (See Menasha Printing and Carton Company, assignors.)
- Sanitary Food Manufacturing Co., St. Paul, Minn. "Sweetest Maid." (For Dessert-Mints.) No. 22,503; Feb. 1; v. 283; p. 179.
- Sanitary Milk Co. (See Menasha Printing and Carton Company, assignor.)
- Saniwax Paper Co., Kalamazoo, Mich. "Blue Bird." (For Bread.) No. 22,504; Feb. 1; v. 283; p. 179.
- Saniwax Paper Co., Kalamazoo, Mich. "Sunrise." (For Bread.) No. 22,505; Feb. 1; v. 283; p. 179.
- Saniwax Paper Co., Kalamazoo, Mich. "Fairy." (For Bread.) No. 22,506; Feb. 1; v. 283; p. 179.
- Saniwax Paper Co., Kalamazoo, Mich. "Jersey Cream." (For Bread.) No. 22,556; Feb. 8; v. 283; p. 361.
- Saniwax Paper Co., Kalamazoo, Mich. "Good Luck." (For Bread.) No. 22,557; Feb. 8; v. 283; p. 361.
- Saniwax Paper Co., Kalamazoo, Mich. "Table Pride." (For Bread.) No. 22,558; Feb. 8; v. 283; p. 361.
- Saniwax Paper Co., Kalamazoo, Mich. "Happy Days." (For Bread.) No. 22,559; Feb. 8; v. 283; p. 361.
- Saniwax Paper Co., Kalamazoo, Mich. "Clover Leaf." (For Bread.) No. 22,589; Feb. 15; v. 283; p. 549.
- Saniwax Paper Co., Kalamazoo, Mich. "Eatour." (For Bread.) No. 22,770; Mar. 22; v. 284; p. 754.
- Saniwax Paper Co., Kalamazoo, Mich. "First Prize." (For Bread.) No. 22,771; Mar. 22; v. 284; p. 754.
- Saniwax Paper Co., Kalamazoo, Mich. "New England." (For Bread.) No. 22,772; Mar. 22; v. 284; p. 745.
- Saniwax Paper Co., Kalamazoo, Mich. "A B C." (For Bread.) No. 22,980; May 31; v. 286; p. 1058.
- Saniwax Paper Co., Kalamazoo, Mich. "Ideal." (For Bread.) No. 22,981; May 31; v. 286; p. 1058.
- Saniwax Paper Co., Kalamazoo, Mich. "Buttercup." (For Bread.) No. 23,047; June 28; v. 287; p. 783.
- Saniwax Paper Co., Kalamazoo, Mich. "Carnation." (For Bread.) No. 23,048; June 28; v. 287; p. 783.
- Saniwax Paper Co., Kalamazoo, Mich. "Golden Rod." (For Bread.) No. 23,237; Aug. 23; v. 289; p. 797.
- Saniwax Paper Co., Kalamazoo, Mich. "Potato." (For Bread.) No. 23,402; Sept. 6; v. 290; p. 224.
- Saniwax Paper Co., Kalamazoo, Mich. "Honey Krust." (For Bread.) No. 23,403; Sept. 6; v. 290; p. 224.
- Saniwax Paper Co., Kalamazoo, Mich. "Old Fashioned." (For Bread.) No. 23,701; Nov. 22.
- Saniwax Paper Co., Kalamazoo, Mich. "Mother's." (For Bread.) No. 23,702; Nov. 22.



- Saniwax Paper Co., Kalamazoo, Mich. "Harvest Queen." (For Bread.) No. 23,828; Dec. 20.
- Saphanol Products Co., Indianapolis, Ind. "Saphanol." (For an Aromatic Germicidal Antiseptic Preparation.) No. 22,413; Jan. 18; v. 282; p. 563.
- Saqui, William, New York, N. Y. "\$10,000 for a Match." (For Cigars.) No. 22,925; May 24; v. 286; p. 860.
- Sargent-Gerke Co., The, Indianapolis, Ind. "Sargent Paint." (For Paint.) No. 23,100; July 5; v. 288; p. 202.
- Sauer, C. F., Company, The Richmond, Va. "Sauer's The National Extract." (For Flavoring Extracts and Flavors.) No. 22,507; Feb. 1; v. 283; p. 179.
- Scheidt, Adam, Beverage Company, Norristown, Pa. "Valley Forge Special." (For a Non-Alcoholic Cereal Beverage.) No. 22,566; Feb. 15; v. 283; p. 549.
- Schiller, Louis, San Francisco, Calif. "New Crow." (For Non-Alcoholic Beverages.) No. 22,508; Feb. 1; v. 283; p. 179.
- Schilling, A., & Company, San Francisco, Calif. "A Schilling Product." (For Prepared Coffee.) No. 22,926; May 24; v. 286; p. 860.
- Schilling, A., & Company, San Francisco, Calif. "A Schilling Product." (For Prepared Cream of Tartar.) No. 22,927; May 24; v. 286; p. 860.
- Schilling, A., & Company, San Francisco, Calif. "A Schilling Product." (For Flavoring Extracts—viz., Vanilla.) No. 22,928; May 24; v. 286; p. 860.
- Schilling, A., & Company, San Francisco, Calif. "A Schilling Product." (For Prepared Spices—viz., Pepper.) No. 22,929; May 24; v. 286; p. 861.
- Schilling, A., & Company, San Francisco, Calif. "A Schilling Product." (For Prepared Tea.) No. 22,930; May 24; v. 286; p. 861.
- Schilling, A., & Company, San Francisco, Calif. "A Schilling Product." (For Baking-Powder.) No. 22,931; May 24; v. 286; p. 861.
- Schnarr, J., & Company, Orlando, Fla. "Schnarr's Spray Formula." (For Materials Employed in Spraying Vegetation.) No. 23,499; Oct. 18.
- Schoenhofen Company, Chicago, Ill. "Green River." (For Soft Drinks.) No. 23,404; Sept. 6; v. 290; p. 224.
- Schoettes, George, Joliet, Ill. "Joliet's H. S. Finest Cigar." (For Cigars.) No. 23,101; July 5; v. 288; p. 202.
- Schott Brothers, New York, N. Y. "Right House Right Goods Right Prices." (For Hosiery, Underwear, and Knit Goods.) No. 23,573; Oct. 25.
- Schroeder, Herman, Quincy, Ill. "Poison Wheat or Poisoned Grain." (For a Poisonous Compound for Rats, Mice, Gophers, or Moles.) No. 22,509; Feb. 1; v. 283; p. 179.
- Schuler Chocolate Factory, Winona, Minn. "Schuler Chocolates." (For Chocolates.) No. 22,773; Mar. 22; v. 284; p. 754.
- Schultz, A. J., Los Angeles, Calif. "Enterprise." (For Honey.) No. 23,647; Nov. 8.
- Schulz, George L., Saginaw, Mich. "Sally." (For Cigars.) No. 23,765; Dec. 13.
- Schwab, Abraham, Memphis, Tenn. "Schwab's Nature Soap." (For Toilet Soap.) No. 23,703; Nov. 22.
- Schwab, Leopold B., New York, N. Y. "Concrete." (For Hosiery.) No. 23,238; Aug. 23; v. 289; p. 797.
- Schwindeler Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
- Scientific Products Co., Baltimore, Md. "Humming-Bird Airplane." (For Toy Airplanes.) No. 23,013; June 14; v. 287; p. 403.
- Scotford, Baron H., Atlantic City, N. J. "Snip-Ettes." (For Silhouettes.) No. 22,774; Mar. 22; v. 284; p. 754.
- Scranton Drug Mfg. Co., Scranton, Pa. "Pep Vino." (For Bottle as a General Tonic.) No. 23,829; Dec. 20.
- Sea Gull Specialty Co., The, Baltimore, Md. "Evangeline Sanitary Soap." (For Boxes Containing a Toilet Soap.) No. 22,775; Mar. 22; v. 284; p. 754.
- Seeds, F. E., Covington, Ky. "Seeds' Dressing." (For a Dressing for Floors, Interior Decorations, Automobiles.) No. 23,433; Sept. 13; v. 290; p. 431.
- Seltzer, Theodore, West Hoboken, N. J. "Baume Analgesique Bengue." (For Medicinal Preparation for Rheumatism, Gout, Neuralgia.) No. 22,842; Mar. 29; v. 284; p. 956.
- Sencabaugh Company. (See Menasha Printing and Carton Company, assignor.)
- Shamie Bros., Detroit, Mich. "Red Arrow Brand." (For Citrus Fruits.) No. 23,146; July 26; v. 288; p. 827.
- Shanklin Manufacturing Company, Springfield, Mass. "A Lamp for Miners Invented By a Miner." (For Cartons for Miner's Lamp.) No. 23,239; Aug. 23; v. 289; p. 797.
- Shedd Creamery Company. (See Menasha Printing and Carton Company, assignor.)
- Shedd, Lilly G., Detroit, Mich. "Liquid Salatone." (For a Remedy for Epileptic Fits.) No. 23,102; July 5; v. 288; p. 202.
- Shepard Fruit Products Company, Wenatchee, Wash. "Mrs. Shepard's Apple Flakes." (For Packages or Containers Containing Flaked and Cooked Apples.) No. 23,103; July 5; v. 288; p. 202.
- Sheridan-Clayton Paper Co., St. Joseph, Mo. "Clayton Quality." (For Wrapping-Paper.) No. 22,843; Mar. 29; v. 284; p. 956.
- Sherratt, Ralph S., St. Louis, Mo. "Malted-Mil-Krisps." (For a Pop-Corn Confection.) No. 23,104; July 5; v. 288; p. 202.
- Shurtleff Company. (See Menasha Printing and Carton Company, assignor.)
- Shutter-Johnson Candy Company, Chicago, Ill. "Shutters Fudge." (For Candy.) No. 22,856; Apr. 19; v. 285; p. 570.
- Sibley-Almy Co., Inc., Olean, N. Y. "Café de Luxe." (For Coffee.) No. 23,574; Oct. 25.
- Sibley-Almy Co., Inc., Olean, N. Y. "Golden Cup." (For Coffee.) No. 23,575; Oct. 25.
- Silberman, Jacob, Stapleton, N. Y. "A Good Sleeper Rip-Van Winkle." (For Sleeping-Garments.) No. 22,510; Feb. 1; v. 283; p. 179.
- Simmons Company, Kenosha, Wis. "Simmons Mattress." (For Mattresses.) No. 23,704; Nov. 22.
- Simon, Leo, Natchez, Miss. "Nutritious Bread Clean." (For Bread.) No. 23,603; Nov. 1.
- Sittler Brothers, Chicago, Ill. "Pure Fresh Grated Horse Radish." (For Bottles or Jars of Horse-Radish.) No. 23,766; Dec. 13.
- Skelton, J. L., Morristown, Tenn. "Colonial Maid." (For Salt-Rising Bread.) No. 22,443; Jan. 25; v. 282; p. 739.
- Sloan, Mrs. Emily, Los Angeles, Calif. "Marvello Washing Powder." (For Cartons Containing the Washing-Powder.) No. 23,767; Dec. 13.
- Small, L. K., Company, Los Angeles, Calif. "Buddy." (For Oranges.) No. 22,444; Jan. 25; v. 282; p. 739.
- Small, L. K., Company, Los Angeles, Calif. "Buddy." (For Lemons.) No. 23,576; Oct. 25.
- Smile Company, The, Topeka, Kans. "Smile." (For Roasted Coffee.) No. 23,240; Aug. 23; v. 289; p. 797.
- Smith, Bethel Burd, Detroit, Mich. "Chi-Co-Na." (For Hair-Tonic for Barbers' Use.) No. 22,672; Mar. 8; v. 284; p. 376.
- Smith, C. D., Drug Company, St. Joseph, Mo. "Castor-mint." (For a Preparation of Castor-Oil and Peppermint.) No. 22,560; Feb. 8; v. 283; p. 361.
- Smith & Clark Co. (See Menasha Printing and Carton Company, assignor.)
- Smith-Davis Company, Inc., New Orleans, La. "School Boy." (For Table-Syrup.) No. 22,776; Mar. 22; v. 284; p. 754.
- Smith-Faus Drug Co., Salt Lake City, Utah. "Septol." (For Antiseptic Disinfectant Germicide.) No. 22,848; Mar. 29; v. 284; p. 956.
- Smith, J. P., Shoe Co., Chicago, Ill. "Smith Smart Shoes." (For Shoes.) No. 23,105; July 5; v. 288; p. 202.
- Smith, Walter D., Rosedale Station, Kansas City, Kans. "The Tell Tale Book." (For Account-Books.) Nos. 23,325-6; Aug. 30; v. 289; p. 1020.
- Soliday, Charles H., Dayton, Ohio. "Klip." (For Cigars.) No. 23,768; Dec. 13.
- Solvos Company, The, New York, N. Y. "Knickerette." (For a Sanitary Bloomer-Protector.) No. 23,830; Dec. 20.
- Southern Cotton Oil Company, The, Jersey City, N. J. "You'll Do Better Painting with Sco-Co." (For Dry Paints, Paste Paints, and Ready-Mixed Paints.) No. 23,831; Dec. 20.
- Southern Cotton Oil Company, The, Jersey City, N. J. "Made to Wear Where the Wear is Hardest." (For Dry Paints, Paste Paints, and Ready-Mixed Paints.) No. 23,832; Dec. 20.
- Southwest Georgia Watermelon Growers Association, Adel, Ga. "Sowega." (For Watermelons.) No. 23,500; Oct. 18.
- Spanish Chemical Co., Springer, N. Mex. "Aceite Caliente." (Hot Oil.) (For a Liniment Called Aceite Caliente.) No. 23,705; Nov. 22.
- "Spearmintz" Co., The, Stillwater, Minn. "Spearmintz." (For a Drink.) No. 22,844; Mar. 29; v. 284; p. 956.
- Speir, Benjamin, Milwaukee, Wis. "Mi Wauke." (For Cigars.) No. 22,445; Jan. 25; v. 282; p. 739.
- Srofe, Jesse, Cincinnati, Ohio. "Joy Blox for the Kids." (For Nested Toy Blocks.) No. 23,577; Oct. 25.
- Staggs, Homa A., Henrietta, Tex. "Over the Desert Sands." (For Packages of Cigarettes and Tobacco.) No. 23,648; Nov. 8.
- Stallman, Gustavus, Adolph, Watertown, Wis. "Clover Blossom." (For Cheese.) No. 23,501; Oct. 18.
- Standard Oil Company, San Francisco, Calif. "Pearl Oil." (For Five-Gallon Cans Containing Illuminating and Heating Oils and on the Cases in Which the said Cans are Packed.) No. 23,769; Dec. 13.
- Standard Overall Company, Baltimore, Md. "Big Sam." (For Overalls and Work-Shirts.) No. 23,502; Oct. 18.
- Star Beverage Company, Belleville, Ill. "Wink." (For Ginger-Flavored Beverages.) No. 22,511; Feb. 1; v. 283; p. 179.
- Star Candy Co., Chicago, Ill. "Goodies." (For Candies—Namely, Orange Fruit Tablets.) No. 22,880; May 3; v. 286; p. 197.
- Star Merchandise Co., New York, N. Y. "Lasher's Wise-Snap Spring Dress Fasteners." (For Dress-Fasteners.) No. 22,610; Mar. 1; v. 284; p. 180.
- Star Merchandise Company, New York, N. Y. "Lasher's Moose Yarns." (For Woolen and Worsted Yarns.) No. 23,147; July 26; v. 288; p. 827.



*Alphabetical list of registrants of labels—Continued.*

- Star Merchandise Company, New York, N. Y. "Lasher's Graffe Elastic." (For All Kinds of Elastics and Elastic Braids.) No. 23,706; Nov. 22.
- Star Merchandise Company, New York, N. Y. "Lasher's Moose Yarns Linen Thread." (For Linen Threads for Hand and Machine Sewing and Crocheting Purposes.) No. 23,858; Dec. 27.
- Stark-Inland Machine Works, St. Louis, Mo. "Stark Step Cut Quick Seating Oilless Piston Ring." (For Packages Containing Piston-Rings.) No. 22,845; Mar. 29; v. 284; p. 956.
- Starley Drug Company, Tyler, Tex. "Starley's Rheumatic Remedy." (For a Remedy for Rheumatism.) No. 23,119; July 12; v. 288; p. 430.
- State Leaf Tobacco Co., The, New York, N. Y. "Toscanox Box." (For a Cigar-Box.) No. 23,014; June 14; v. 287; p. 403.
- Stearns-McKay Manufacturing Co., Marblehead, Mass. "Marblehead Anti-Fouling Bottom Composition." (For Paint.) No. 22,512; Feb. 1; v. 283; p. 179.
- Steel, L. R., Company, Inc., Buffalo, N. Y. "Mary Lincoln." (For Candies.) No. 22,434; Sept. 13; v. 290; p. 431.
- Steel Packing Company, San Diego, Calif. "Kenilworth." (For Tuna.) No. 23,707; Nov. 22.
- Steidle, Joseph P., Wilkes-Barre, Pa. "Wax for Dancing Floors Only." (For Packages Containing a Composition Specially Adapted for Floors.) No. 22,982; May 31; v. 286; p. 1058.
- Steidle, Joseph P., Wilkes-Barre, Pa. "A Wax for a Good Dancing Floor." (For a Preparation Specially Adapted for Use on Floors.) No. 23,106; July 5; v. 288; p. 202.
- Stein Brothers, Milwaukee, Wis. "Miona." (For Cigars.) No. 22,414; Jan. 18; v. 282; p. 563.
- Stein, Leon, New York, N. Y. "Charm Onet." (For Hair-Nets.) No. 23,435; Sept. 13; v. 290; p. 431.
- Steiner, Emil, Browley, Calif. "Brawley Beauty Brand." (For Crates and Boxes Containing Grapefruit.) No. 23,859; Dec. 27.
- Steitz, Edward G., St. Louis, Mo. "Quik-Gro Plant Food." (For Plant Food.) No. 23,015; June 14; v. 287; p. 403.
- Stephenson County Co-operative Marketing Company. (See Menasha Printing and Carton Company, assignor.)
- Sterling Dairy Products Company. (See Menasha Printing and Carton Company, assignors.)
- Sterling Pin Company, Derby, Conn. "Wheel Design." (For Hairpins.) No. 22,386; Jan. 11; v. 282; p. 384.
- Sterling Pin Company, The, Derby, Conn. "Panel Design." (For Hairpins.) No. 22,561; Feb. 8; v. 283; p. 361.
- Sterling Pin Company, The, Derby, Conn. "Poppy Design." (For Hairpins.) No. 22,562; Feb. 8; v. 283; p. 361.
- Sterling Pin Company, The, Derby, Conn. "Pansy Design." (For Hairpins.) No. 22,563; Feb. 8; v. 283; p. 361.
- Sterling Pin Co., The, Derby, Conn. "Flower Design." (For Hairpin-Boxes.) No. 23,649; Nov. 8.
- Stern, Joseph, & Sons, Inc., New York, N. Y. "Hudson Bacon." (For Bacon.) No. 23,148; July 26; v. 288; p. 827.
- Stern, Joseph, & Sons, Inc., New York, N. Y. "Hudson Boiled Ham." (For Boiled Ham.) No. 23,149; July 26; v. 288; p. 827.
- Stern, Joseph, & Sons, Inc., New York, N. Y. "Hudson Ham." (For Ham.) No. 23,150; July 26; v. 288; p. 827.
- Stern, Joseph, & Sons, Inc., New York, N. Y. "Swanee Bacon." (For Packaged Bacon.) No. 23,650; Nov. 8.
- Sterrick, Harrison D., Pittsburgh, Pa. "Green River Malt Extract." (For Cans Containing Malt Extract.) No. 22,590; Feb. 15; v. 283; p. 549.
- Sterrick, Harrison D., Pittsburgh, Pa. "Blue Bird Malt Extract." (For Cans Containing Malt Extract.) No. 22,591; Feb. 15; v. 283; p. 549.
- Sterrick, Harrison D., Pittsburgh, Pa. "Ro-He-Me Malt Extract." (For Cans Containing Malt Extract.) No. 22,592; Feb. 15; v. 283; p. 549.
- Sterrick, Harrison D., Pittsburgh, Pa. "Blue Ribbon Beverage Combination All in One." (For Malt, Hops, and Sugar in Cans.) No. 22,846; Mar. 29; v. 284; p. 956.
- Sterrick, Harrison D., Pittsburgh, Pa. "Club 3-in-1." (For Pure Barley-Malt, Hops, and Maltose-Sugar in Cans.) No. 22,847; Mar. 29; v. 284; p. 956.
- Sterrick, Harrison D., Pittsburgh, Pa. "2 in 1 Malt Extract." (For Cans Containing Malt Extract.) No. 22,983; May 31; v. 286; p. 1058.
- Sterrick, Harrison D., Pittsburgh, Pa. "All in One Malt Extract." (For Cans Containing Malt Extract.) No. 22,984; May 31; v. 286; p. 1058.
- Sterrick, Harrison D., Pittsburgh, Pa. "4 in 1 Malt Extract." (For Cans Containing Malt Extract.) No. 22,985; May 31; v. 286; p. 1058.
- Sterrick, Harrison D., Pittsburgh, Pa. "Gold Medal Malt Extract." (For Cans Containing Malt Extract, Hops Extract, and Sugar.) No. 22,986; May 31; v. 286; p. 1058.
- Sterrick, Harrison D., Pittsburgh, Pa. "Blue Raven Malt Extract." (For Cans Containing Malt Extract.) No. 22,987; May 31; v. 286; p. 1058.
- Sterrick, Harrison D., Pittsburgh, Pa. "Our Old Monastery Malt Extract." (For Cans Containing Malt Extract.) No. 22,988; May 31; v. 286; p. 1058.
- Sterrick, Harrison D., Pittsburgh, Pa. "Three In One Malt Extract." (For Cans Containing Malt Extract Made of Malt, Hops, and Sugar.) No. 23,016; June 14; v. 287; p. 403.
- Stevens Manufacturing Co., Fall River, Mass. "Stevens Crochet Bedspread." (For Bedspreads.) No. 22,932; May 24; v. 286; p. 861.
- Stevens Manufacturing Co., Fall River, Mass. "Stevens Satin Bedspread." (For Bedspreads.) No. 22,933; May 24; v. 286; p. 861.
- Stevens Manufacturing Co., Fall River, Mass. "Stevens Brocade Bedspread." (For Bedspreads.) No. 22,934; May 24; v. 286; p. 861.
- Stevens Manufacturing Co., Fall River, Mass. "Stevens Durée Bedspreads." (For Bedspreads.) No. 22,935; May 24; v. 286; p. 861.
- Stevens Manufacturing Co., Fall River, Mass. "Stevens Kros Stitch Bedspread." (For Bedspreads.) No. 23,107; July 5; v. 288; p. 202.
- Stevens Manufacturing Co., Fall River, Mass. "Stevens Novelite Bedspread." (For Bedspreads.) No. 23,604; Nov. 1.
- Stieffen, P. V., Newport News, Va. "Kil-Ol." (For a Disinfectant, Deodorizer, and Germicide.) No. 23,327; Aug. 30; v. 289; p. 1020.
- Stoll & Edwards Co. Inc., New York, N. Y. "The House That Jack Built." (For Doll-Houses.) No. 23,708; Nov. 22.
- Stoll & Edwards Co. Inc., New York, N. Y. "Game of Mother Goose." (For Game.) No. 23,709; Nov. 22.
- Stoll & Edwards Co. Inc., New York, N. Y. "Game of Black Beauty." (For Game.) No. 23,710; Nov. 22.
- Stoll & Edwards Co. Inc. "The House That Jack Built." (For Boxes Containing Doll-Houses.) No. 23,833; Dec. 20.
- Stollwerck Chocolate Company, The, Stamford, Conn. "Ever-Ready." (For Cocoa.) No. 22,673; Mar. 8; v. 284; p. 376.
- Strakosch, Edgar, San Francisco, Calif. "Edgar Chew-Me-Up." (For Chewing-Candy.) No. 22,674; Mar. 8; v. 284; p. 376.
- Strauss Bros., Chicago, Ill. "B. & J. R." (For Cigar-Boxes.) No. 23,406; Sept. 6; v. 290; p. 224.
- Street, M. F., & Co., Rector, Ark. "Valminzo." (For Containers for an Ointment for the Treatment of Burns and Scalds, Piles, Sore Eyes, Eczema, Blood-Poison, Sore Mouth, Chronic or Old Sores, Ulcers, Insect-Bites, Inflammation or Irritation of Any Part of the Body.) No. 22,881; May 3; v. 286; p. 197.
- Sugerman Bros., Cleveland, Ohio. "Princess Hair Net." (For Hair-Nets.) No. 23,503; Oct. 18.
- Sulpho-Naphthol Company, The, Boston, Mass. "Sylpho-Nathol." (For a Disinfectant.) No. 22,415; Jan. 18; v. 282; p. 563.
- Summit Varnish Company, Chicago and Summit, Ill. "Oro-Lite." (For Wood-Finishes.) No. 22,513; Feb. 1; v. 283; p. 179.
- Sun Baking Company. (See Menasha Printing and Carton Company, assignor.)
- Sun River Chemical Company, New York, N. Y. "Sun River Ointment." (For Ointment.) No. 23,108; July 5; v. 288; p. 262.
- Superior Builders Supply Co., Little Rock, Ark. "Rose City Mixed Paint." (For Mixed Paints.) No. 23,017; June 14; v. 287; p. 403.
- Supplee-Wills-Jones Milk Co. (See Menasha Printing and Carton Company, assignor.)
- Supreme Cigar Co., Poplar Bluff, Mo. "Intimation." (For Cigars.) No. 22,514; Feb. 1; v. 283; p. 179.
- Supreme Cigar Company, Poplar Bluff, Mo. "Supreme." (For Cigars.) No. 22,594; Feb. 15; v. 283; p. 549.
- Supreme Cigar Company, Poplar Bluff, Mo. "El Rolada." (For Cigars.) No. 22,595; Feb. 15; v. 283; p. 549.
- Supreme Cigar Company, Poplar Bluff, Mo. "Long-Lease." (For Cigars.) No. 22,675; Mar. 8; v. 284; p. 376.
- Sweet, Arthur J., Milwaukee, Wis. "Vialux." (For a Line of Street-Lighting Units.) No. 22,989; May 31; v. 286; p. 1058.
- Sweet Candy Co., Salt Lake City, Utah. "Sweet's Salt Lake Brilliant Gloss Filled Candies." (For a Tin Containing Filled Candies.) No. 23,436; Sept. 13; v. 290; p. 431.
- Taggart Baking Company, Indianapolis, Ind. "Taggart's Wonder Bread." (For Bread.) No. 23,775; Dec. 13.
- Taylor, Charles M., Jr., Philadelphia, Pa. "Auto-Brite." (For a Liquid Compound for Cleaning, Polishing, and Brightening Automobiles.) No. 23,018; June 14; v. 287; p. 403.
- Taylor Ice Cream Co. (See Menasha Printing and Carton Company, assignor.)
- Tech Food Products Co., Pittsburgh, Pa. "Polly Tech." (For Ice-cream.) No. 23,711; Nov. 22.
- Teitelbaum, David, New York, N. Y. "Bon-Ton." (For Hair-Nets or Containers for Hair-Nets.) No. 22,889; May 10; v. 286; p. 412.
- Telling-Belle Vernon Company, The. (See Menasha Printing and Carton Company, assignors.)
- Tennyson Cigar Company, Inc., Chicago, Ill. "Great Master." (For Cigars.) No. 22,887; Jan. 11; v. 282; p. 384.
- Terre Haute Brewing Co., Terre Haute, Ind. "Champagne Velvet Root Beer." (For Root-Beer.) No. 22,515; Feb. 1; v. 283; p. 179.



- Terre Haute Pure Milk Company. (See Menasha Printing and Carton Company, assignors.)
- Texas Star Flour Mills, Galveston, Tex. "Ambrosia." (For Wheat-Flour.) No. 23,712; Nov. 22.
- Thacher Ice Cream Company. (See Menasha Printing & Carton Company, assignor.)
- Thatcher's Bakery. (See Menasha Printing and Carton Company, assignor.)
- The Milwaukee Co-Operative Cigar Company, Milwaukee, Wis. "The Co-Operative Cigar." (For Cigars.) No. 23,042; June 28; v. 287; p. 783.
- Thomas-Boyce Direct Feed Company, Indianapolis, Ind. "Servus Manufacturer Feeder." (For Animal and Poultry Feed.) No. 23,504; Oct. 18.
- Thomas-Boyce Direct Feed Company, Indianapolis, Ind. "Direct Manufacturer Feeder." (For Animal and Poultry Feed.) No. 23,505; Oct. 18.
- Thompson, Mrs. Ida, Dunton, N. Y. "Mrs. Thompson's Home Dentist." (For a Preparation of Olive-Oil 99% and Pure Vanilla 1% for toothache.) No. 23,109; July 5; v. 288; p. 202.
- Thoreson, Peter, Baldi, Wash. "Wetproof." (For Shoe-Dressing.) No. 23,110; July 5; v. 288; p. 202.
- Thornton Mineral Springs Company, Thornton township, Cook county, Ill. "Thornton Mineral Water." (For Mineral Water.) No. 22,516; Feb. 1; v. 283; p. 179.
- Thornton Mineral Springs Company, Thornton township, Cook county, Ill. "White Cross Lemon." (For Bottles Containing a Fruit Drink—Namely, Lemon.) No. 22,676; Mar. 8; v. 284; p. 376.
- Thornton Mineral Springs Company, Thornton township, Cook county, Ill. "White Cross Root Beer." (For Bottles Containing a Beverage—Namely, Root-Beer.) No. 22,667; Mar. 8; v. 284; p. 376.
- Thornton Mineral Springs Company, Thornton township, Cook county, Ill. "White Cross Ginger Ale." (For Bottles Containing a Beverage—Namely, Ginger-Ale.) No. 22,678; Mar. 8; v. 284; p. 376.
- Thornton Mineral Springs Company, Thornton township, Cook county, Ill. "White Cross Orange." (For Bottles Containing a Fruit Drink—Namely, Orange.) No. 22,679; Mar. 8; v. 284; p. 377.
- Tinker, Edward T., Minneapolis, Minn. "Dr. Tinker's Formula Gold for Cast Crown and Bridge Work." (For Packages Containing Dental Gold.) No. 23,049; June 28; v. 287; p. 783.
- Tipton-Berry Cigar Company, The. "Tipton-Berry's Guaranteed Mild Havana Pageant." (For Cigars.) No. 23,407; Sept. 6; v. 290; p. 225.
- Toloma Creamery. (See Menasha Printing and Carton Company, assignor.)
- Townsend Wholesale Grocery Company, Maryville, Mo. "Nickel Plate." (For Coffee.) No. 23,713; Nov. 22.
- Trans-Pacific Trading Company, Chicago, Ill. "Sophomore." (For Cigars.) No. 22,416; Jan. 18; v. 282; p. 563.
- Trans-Pacific Trading Company, Inc., Chicago, Ill. "Apache." (For Cigars.) No. 23,151; July 26; v. 288; p. 827.
- Trapp Bros. Dairy Company. (See Menasha Printing and Carton Company, assignors.)
- Trautwein, Philip, Philadelphia, Pa. "Heal-All." (For a Salve.) No. 22,417; Jan. 18; v. 282; p. 563.
- Triangle Chemical Co., Chicago, Ill. "No Rat." (For Containers for a Rat-Exterminator.) No. 23,770; Dec. 13.
- Triangle Chemical Co., Chicago, Ill. "No-Bed Bug." (For Containers for a Bedbug-Exterminator.) No. 23,771; Dec. 13.
- Triangle Chemical Co., Chicago, Ill. "No-Roach." (For Containers for a Roach-Exterminator.) No. 23,772; Dec. 13.
- Triangle Chemical Co., Chicago, Ill. "No-Insect." (For Containers for an Insect-Exterminator.) No. 23,773; Dec. 13.
- Tri-State Milk Products Co., Galena, Ill. "Ace." (For Evaporated Milk.) No. 23,241; Aug. 23; v. 289; p. 797.
- Tropical Date Company, Inc., Thermal, Calif. "California Dates." (For Dates.) No. 23,714; Nov. 22.
- True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery.) Nos. 22,564-5; Feb. 8; v. 283; p. 361.
- True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery.) No. 23,242; Aug. 23; v. 289; p. 797.
- True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery.) Nos. 23,408-9; Sept. 6; v. 290; p. 225.
- True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery.) No. 23,605; Nov. 1.
- Truthan, Edwin, New York, N. Y. "Topaz Brand Malt Extract." (For Malt Extract.) No. 23,410; Sept. 6; v. 290; p. 225.
- Turney, Burton E., Bridgeport, Conn. "Salvox." (For Containers of a Dentifrice.) No. 22,680; Mar. 8; v. 284; p. 377.
- Ultra Refined Crude Products Company, Chicago, Ill. "Ker-Ene." (For Deodorized Keorsene.) No. 22,517; Feb. 1; v. 283; p. 179.
- Union Candy Co., The, Cincinnati, Ohio. "Old Fashioned Bestick." (For Stick-Candy.) No. 22,518; Feb. 1; v. 283; p. 179.
- Union Candy Co., The, Cincinnati, Ohio. "Bestick." (For Stick-Candy.) No. 22,519; Feb. 1; v. 283; p. 179.
- Union Candy Co., The, Cincinnati, Ohio. "Bestick." (For Stick-Candy.) No. 22,520; Feb. 1; v. 283; p. 179.
- United Cigar Maker's Co-Operative Society, Inc., New York, N. Y. "Arota." (For Cigars.) No. 23,328; Aug. 30; v. 289; p. 1020.
- United Drug Company, Boston, Mass. "Goodform Hair Net." (For Hair-Nets.) No. 22,521; Feb. 1; v. 283; p. 179.
- U. S. Compression Inner Tube Co., Tulsa, Okla. "Compression." (For Inner Tubes.) No. 22,522; Feb. 1; v. 283; p. 179.
- United States Foil Company, Louisville, Ky. "Gold Seal." (For Cake.) No. 23,245; Aug. 23; v. 289; p. 797.
- United States Foil Company, Louisville, Ky. "Old Kentucky." (For Jelly-Roll.) No. 23,246; Aug. 23; v. 289; p. 797.
- United States Foil Company, Louisville, Ky. "Silver Lake." (For Cake.) No. 23,329; Aug. 30; v. 289; p. 1020.
- U. S. Manifold Company, Chicago, Ill. "Perfex." (For Typewriter Carbon-Paper.) No. 23,015; June 14; v. 287; p. 403.
- United States Metallic Packing Company, The, Philadelphia, Pa. "King Packing Ring." (For Boxes Containing Packing-Rings.) Nos. 23,608-9; Nov. 1.
- United States Rubber Company, New York, N. Y. "Rainbow." (For Cartons Containing Jar-Rubbers.) No. 23,243; Aug. 23; v. 289; p. 797.
- United States Rubber Company, New York, N. Y. "Beaver." (For Cartons Containing Jar-Rubbers.) No. 23,244; Aug. 23; v. 289; p. 797.
- United Stores Supply Co., Minneapolis, Minn. "Lavo-Kleen." (For Powder for Cleaning Closet-Bowls.) No. 23,247; Aug. 23; v. 289; p. 797.
- United States Supply Co., Minneapolis, Minn. "Sha-Ko Mechanics Antiseptic Hand Soap Powder." (For Hand Soap Powder.) No. 23,330; Aug. 30; v. 289; p. 1020.
- Urich Cigar Co., The, Milwaukee, Wis. "Defectos Perfectos." (For Cigar-Boxes Containing Cigars.) No. 23,860; Dec. 27.
- Uyrtatis Co., The, Cleveland, Ohio. "Urtatis." (For a Medicinal Preparation.) No. 23,331; Aug. 30; v. 289; p. 1020.
- Val, Blatz Jr. Candy Co., Milwaukee, Wis. "Oh! Please." (For Candy.) No. 23,248; Aug. 23; v. 289; p. 797.
- Valdez, Louis, Tampa, Fla. "Dr. Louis Valdez's Famous Remedies, French Discovery." (For Eight-Ounce Bottle Containing a Tonic for the Cure of Dyspepsia, Indigestion, Biliousness, Malaria, Boils, Liver or Kidney Troubles, Constipation, Rheumatism, Eczema, and All Blood Disorders.) No. 23,861; Dec. 27.
- Van Camp Packing Company, The, Indianapolis, Ind. "Mustard Dressing." (For Mustard Dressing.) No. 22,681; Mar. 8; v. 284; p. 377.
- Van Camp Packing Company, The, Indianapolis, Ind. "Salad Dressing." (For Salad-Dressing.) No. 22,682; Mar. 8; v. 284; p. 377.
- Van Camp Packing Company, The, Indianapolis, Ind. "Swiss Style Sweet Chocolate." (For Chocolate.) No. 22,936; May 24; v. 286; p. 861.
- Van Camp Packing Company, The, Indianapolis, Ind. "Van Camp's Almond Sweet Milk Chocolate." (For Almond Sweet Milk-Chocolate.) No. 22,937; May 24; v. 286; p. 861.
- Van Rouge Co., Inc., Minneapolis, Minn. "Ryan's Van-Rouge." (For a Fruit Beverage.) No. 23,610; Nov. 1.
- Van Vleet-Mansfield Drug Co. "For Creole Hair Dressing." (For Cartons in Which are Bottles Containing a Hair-Tonic.) No. 23,611; Nov. 1.
- Vaillard, Eugene C., Fell City, Ind. "The William Tell." (For Cigars.) No. 22,596; Feb. 15; v. 283; p. 549.
- Verhaag, Jacob C., St. Paul, Minn. "Hook 'Em, Cow." (For Cigars.) No. 23,249; Aug. 23; v. 289; p. 797.
- Viebrock, Cord, Brooklyn, N. Y. "Viebrock." (For Chocolate or Chocolate-Covered Candy or Containers or Wrappers Thereof.) No. 22,683; Mar. 8; v. 284; p. 377.
- Vilander, Anna L., New York, N. Y. "Holdzit." (For Elastic Waistbands.) No. 23,332; Aug. 30; v. 289; p. 1020.
- Vincennes Milk & Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
- Vino Medical Company, Inc., New York, N. Y. "Vee-notonic Bitter Wine, Tonik Vina." (For a Medicinal Tonic.) No. 22,712; Mar. 15; v. 284; p. 588.
- Virgin Ice Cream Co. (See Menasha Printing and Carton Company, assignor.)
- Visalia Cooperative Creamery, Kings County Creamery Assn. (See Menasha Printing and Carton Company, assignor.)
- Vi-Tone Products Co., Albany, N. Y. "Vi-Tone." (For a Liquid Medicinal Compound for Nervous and Kindred Diseases.) No. 22,990; May 31; v. 286; p. 1058.
- Vogan Candy Company, Portland, Oreg. "Oregon Cherries." (For Chocolate-Covered Cherries.) No. 22,991; May 31; v. 286; p. 1058.
- Volker & Son, Chas., Chicago, Ill. "Volker's Bohemian Brand." (For Tins Containing Malt Extract.) No. 23,612; Nov. 1.
- Vratsenis, Demetre G., Syracuse, N. Y. "Vratsenis Asthma Relief." (For Asthma.) No. 22,419; Jan. 18; v. 282; p. 563.
- Vrhel, Charles F., Chicago, Ill. "Mal Vaz." (For Malt Extract.) No. 22,849; Mar. 29; v. 284; p. 958.



## Alphabetical list of registrants of labels—Continued.

- Vrbel, Charles F., Chicago, Ill. "Saazer Bohemian Style." (For Malt-Syrup.) No. 22,850; Mar. 29; v. 284; p. 956.
- Wahl, Arnold, Chicago, Ill. "Fermentive the Super-malt Syrup." (For Malt Syrups and Extracts.) No. 23,506; Oct. 18.
- Walker Creamery Products Company. (See Menasha Printing and Carton Company, assignors.)
- Waller, Herman S., Chicago, Ill. "Waller's Relief for Headache and Neuralgia." (For Headache Powders and Tablets.) No. 23,578; Oct. 25.
- Walters, H. V., Long Branch, N. J. "First-Prize." (For Bread.) No. 23,580; Oct. 25.
- Walters, Henry V., Long Branch, N. J. "Some!!!" (For Popcorn.) No. 22,777; Mar. 22; v. 284; p. 754.
- Walters, Henry V., Oceanport, N. J. "Some!!!" (For Cake.) No. 23,579; Oct. 25.
- Wander Company, The, Chicago, Ill. "Ovaltine." (For Tins Containing Ovaltine.) No. 23,581; Oct. 25.
- Wander Company, The, Chicago, Ill. "Ovaltine." (For Tins Containing Ovaltine.) No. 23,613; Nov. 1.
- Wapato Melon Growers Association, Wapato, Wash. "Carnation." (For Cantaloups.) No. 22,523; Feb. 1; v. 283; p. 179.
- Ward Baking Company, New York, N. Y. "Ward Baking Co.—Quality Cakes—Made Clean—100% Pure." (For Cakes.) No. 23,250; Aug. 23; v. 289; p. 797.
- Ward Baking Company, New York, N. Y. "Ward's Pound Cake." (For Cake.) No. 23,776; Dec. 13.
- Ward, James E., Springfield, Ohio. "Accurate Thermometer a Real Necessity for the Home and Office." (For Thermometers.) No. 22,778; Mar. 22; v. 284; p. 754.
- Ware Mfg. Co., Cleveland, Ohio. "Helen Ware's Complexion Cream." (For Receptacles Containing Complexion-Cream.) No. 23,020; June 14; v. 287; p. 403.
- Ware Mfg. Co., Cleveland, Ohio. "Helen Ware's Hair Tonic." (For Receptacles Containing Hair-Tonic.) No. 23,050; June 28; v. 287; p. 783.
- Warne, Frederick & Co. Ltd., New York, N. Y. "Peter Rabbit's Race Game." (For Cover of Box Containing the Game.) No. 23,777; Dec. 13.
- Washington Dairy Company. (See Menasha Printing and Carton Company, assignor.)
- Waterloo Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
- Watkins, J. R., Company, The, Winona, Minn. "Watkins All Rubber Patch Outfit." (For Cartons Containing a Rubber-Patch Outfit.) No. 22,938; May 24; v. 286; p. 861.
- Watkins, R. L., Company, The, Cleveland, Ohio. "Watkins Multisified Coconut Oil Shampoo." (For Advertising Purposes for Watkins Multisified Coconut-Oil Shampoo.) No. 23,411; Sept. 6; v. 290; p. 225.
- Watts, Edward J., Berkeley, Calif. "B-Z Way." (For Container for Soap in Powder Form.) No. 23,413; Sept. 6; v. 290; p. 225.
- Waukesha Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)
- Waxide Paper Company, Kansas City, Mo. "Golden Cream." (For Bread.) No. 22,446; Jan. 25; v. 282; p. 739.
- Weisbrod & Hess Brewing Co., Philadelphia, Pa. "Peacock Brand Birch Beer." (For Bottles and Packages Containing a Lawful Beverage Known and Designated as Birch-Beer.) No. 22,779; Mar. 22; v. 284; p. 754.
- Weisbrod & Hess Brewing Co., Philadelphia, Pa. "Peacock Brand Lemon Soda." (For Bottles and Packages Containing a Lawful Beverage Known and Designated as Lemon-Soda.) No. 22,780; Mar. 22; v. 284; p. 754.
- Weisbrod & Hess Brewing Co., Philadelphia, Pa. "Peacock Brand Root Beer." (For Bottles and Packages Containing a Lawful Beverage Known and Designated as Root-Beer.) No. 22,781; Mar. 22; v. 284; p. 754.
- Weisbrod & Hess Brewing Co., Philadelphia, Pa. "Peacock Brand Sarsaparilla." (For Bottles and Packages Containing a Lawful Beverage Known and Designated as Sarsaparilla.) No. 22,782; Mar. 22; v. 284; p. 754.
- Weisbrod & Hess Brewing Co., Philadelphia, Pa. "Peacock Brand Ginger Ale." (For Bottles and Packages Containing a Lawful Beverage Known and Designated as Ginger-Ale.) No. 22,783; Mar. 22; v. 284; p. 754.
- Weisbrod & Hess Brewing Co., Philadelphia, Pa. "Peacock Brand Vanilla Soda." (For Bottles and Packages Containing a Lawful Beverage Known and Designated as Vanilla-Soda.) No. 22,784; Mar. 22; v. 284; p. 754.
- Weiss, Nathan, New York, N. Y. "Populaire." (For Cigars.) No. 23,437; Sept. 13; v. 290; p. 431.
- Welch Grape Juice Company, The, Westfield, N. Y. "Grape-Blackberilade." (For a Spread of Grape-Blackberry Flavor for Bread, Toast, and Muffins.) No. 22,684; Mar. 8; v. 284; p. 377.
- Welch Grape Juice Company, The, Westfield, N. Y. "Grape-Currantlade." (For a Spread of Grape-Currant Flavor for Bread, Toast, and Muffins.) No. 22,685; Mar. 8; v. 284; p. 377.
- Welch Grape Juice Company, The, Westfield, N. Y. "Strawberilade." (For a Spread of Strawberry Flavor for Bread, Toast, and Muffins.) No. 22,939; May 24; v. 286; p. 861.
- Welch Grape Juice Company, The, Westfield, N. Y. "Welchade." (For Concentrated Grape.) No. 23,651; Nov. 8.
- Welch Grape Juice Company, The, Westfield, N. Y. "Welch's Apple Butter." (For Apple-Butter.) No. 23,715; Nov. 22.
- Wells, Corinne B., Portland, Oreg. "Wells Craft." (For Decorated Candles.) No. 22,940; May 24; v. 286; p. 861.
- West, Augustus A., Philadelphia, Pa. "West Gold Seal Hair Net." (For Hair-Nets.) No. 22,597; Feb. 15; v. 283; p. 549.
- Western Bottle Manufacturing Company, Chicago, Ill. "Gainsborough." (For Envelops Containing Hair-Nets.) No. 23,438; Sept. 13; v. 290; p. 431.
- Western Bottle Manufacturing Company, Chicago, Ill. "Gainsborough Genuine Hair Net." (For Hair-Nets.) No. 23,774; Dec. 13.
- Western Shirt Co., The, New York, N. Y. "Uncle Tom Shirt." (For Shirts.) No. 23,333; Aug. 30; v. 289; p. 1020.
- Westinghouse Lamp Company, Bloomfield, N. J. "Spark-C." (For Electrical Apparatus, Machinery, and Supplies, Particularly Potential-Detectors.) No. 23,778; Dec. 13.
- Westinghouse Union Battery Co., Swissvale, Pa. "Westinghouse Union Battery Co." (For Storage Batteries and Terminals Therefor.) No. 22,598; Feb. 15; v. 283; p. 549.
- Westmoreland Candy Company, Inc., Richmond, Va. "Peconut Crisp." (For a Nut Confection in the Form of Candy.) No. 23,779; Dec. 13.
- Weston, B. J., Los Angeles, Calif. "Weston's Special Malt Syrup." (For Cans Which Contain Pure Barley and Malt Syrup.) No. 23,507; Oct. 18.
- White, Clinton R., Chicago, Ill. "Silverine." (For Toilet-Paper.) No. 23,780; Dec. 13.
- White, Clinton R., Chicago, Ill. "World Wide." (For Toilet-Paper.) No. 23,781; Dec. 13.
- White, Clinton R., Chicago, Ill. "Gold Band." (For Toilet-Paper.) No. 23,782; Dec. 13.
- White, Clinton R., Chicago, Ill. "Equator." (For Toilet-Paper.) No. 23,783; Dec. 13.
- White, Clinton R., Chicago, Ill. "Canyon." (For Toilet-Paper.) No. 23,784; Dec. 13.
- White, Clinton R., Chicago, Ill. "Coast to Coast." (For Toilet-Paper.) No. 23,785; Dec. 13.
- White, Clinton R., Chicago, Ill. "Delta." (For Toilet-Paper.) No. 23,786; Dec. 13.
- White, M. E., Washington, D. C. "Stansbery Wonder Salve." (For Labels Placed Around Containers Holding Said Salve.) No. 23,051; June 28; v. 287; p. 783.
- White Mule, Inc., Carbondale, Ill. "White Mule Tire-Patch." (For Can Containing Automobile-Tire Patch.) No. 23,583; Oct. 25.
- White Plains Ice Cream Co. (See Menasha Printing and Carton Company, assignor.)
- White & Wyckoff Mfg. Co., Holyoke, Mass. "Paramount Linen Finish." (For Boxes of Stationery.) No. 22,851; Mar. 29; v. 284; p. 956.
- Whitehead Brothers. (See Menasha Printing and Carton Company, assignor.)
- Whitehead Hosiery Mills, Inc., Burlington, N. C. "Seven Point." (For Hosiery.) No. 23,582; Oct. 25.
- Whitmore Manufacturing Company, The, Cleveland, Ohio. "Whitmore's Gear Protective Composition." (For Receptacles Containing Gear-Protective Composition.) No. 22,713; Mar. 15; v. 284; p. 588.
- Whitmore Manufacturing Company, The, Cleveland, Ohio. "Whitmore's Worm Gear." (For Receptacles Containing Protective Composition.) No. 22,714; Mar. 15; v. 284; p. 588.
- Whitmore Manufacturing Company, The, Cleveland, Ohio. "Whitmore's Auto Gear." (For Receptacles Containing Protective Composition for Differential Cases.) No. 22,715; Mar. 15; v. 284; p. 588.
- Whitmore Manufacturing Company, The, Cleveland, Ohio. "Whitmore's Auto Gear." (For Receptacles Containing Protective Composition for Transmission-Cases.) No. 22,785; Mar. 22; v. 284; p. 754.
- Whitmore Manufacturing Company, The, Cleveland, Ohio. "Whitmore's Anti-Friction Composition." (For Receptacles Containing Lubricant for Compression Grease-Cups, Knuckle-Joints, and Spring-Shackle Cups.) No. 22,786; Mar. 22; v. 284; p. 754.
- Whitney, George C., Company, Worcester, Mass. "Material for Making Lace Valentines." (For Valentine Material.) No. 22,535; Feb. 8; v. 283; p. 361.
- Wielpuetz Bakery. (See Menasha Printing and Carton Company, assignor.)
- Willer & Riley (1910) Ltd., Manchester, England. "Best Quality Sweet P's." (For Dried Peas.) No. 22,882; May 3; v. 286; p. 197.
- Willer & Riley (1910) Ltd., Manchester, England. "Bunch of Pods." (For Dried Peas.) No. 22,883; May 3; v. 286; p. 197.
- Willer & Riley (1910) Ltd., Manchester, England. "Willer's English Peas." (For Dried Peas.) No. 22,884; May 3; v. 286; p. 197.
- Willer & Riley (1910) Ltd., Manchester, England. "Natural No. 2 Green Peas." (For Dried Peas.) No. 22,885; May 3; v. 286; p. 197.
- Willer & Riley (1910) Ltd., Manchester, England. "Natural No. 1 Garden Peas." (For Dried Peas.) No. 22,886; May 3; v. 286; p. 197.



- Willer & Riley (1910) Ltd., Manchester, England. "Willer's English Peas." (For Dried Peas.) No. 22,887; May 3; v. 286; p. 197.
- Wilhelm Henry, Company, Pittsburgh, Pa. "Nuafbre." (For Prepared Moss.) No. 23,439; Sept. 13; v. 290; p. 431.
- Wilhelm, Henry, Co., Pittsburgh, Pa. "Nuprocess." (For Moss for Upholstering Purposes.) No. 23,834; Dec. 20.
- Wilhelm, Henry, Co., Pittsburgh, Pa. "Luxafbre." (For Moss for Upholstering Purposes.) No. 23,835; Dec. 20.
- Williams Brush Company, Philadelphia, Pa. "Mother Goose." (For Toothbrushes.) No. 22,787; Mar. 22; v. 284; p. 754.
- Williams, George, Company, New York, N. Y. "The Incomparable Spring Snap Dress Fastener." (For Spring Snap-Fasteners.) No. 22,379; Jan. 11; v. 282; p. 384.
- Williams, Harney L., New York, N. Y., assignor to J. William Landenberger, Philadelphia, Pa. "Sports." (For Hosiery.) No. 23,251; Aug. 23; v. 289; p. 797.
- Wine-ola Co., The, New York, N. Y. "Wine-ola." (For Non-Intoxicant Beverages.) No. 23,334; Aug. 30; v. 289; p. 1020.
- Withrow, Floyd G., Grand Rapids, Mich. "Steers Better, Stops the Rattle, Saves Worn Knuckles." (For Antirattlers for Motor-Vehicles.) No. 22,447; Jan. 25; v. 282; p. 739.
- Withrow, Floyd G., Grand Rapids, Mich. "Handy Antirattlers Stop That Noise." (For Antirattlers for Motor-Vehicles.) No. 22,448; Jan. 25; v. 282; p. 739.
- Withrow, Floyd G., Grand Rapids, Mich. "Handy Steering-Arm Shock-Absorber." (For Antirattlers for Motor-Vehicles.) No. 22,449; Jan. 25; v. 282; p. 739.
- Withrow, Floyd G., Grand Rapids, Mich. "Handy Antirattlers Stop That Noise Big Brake Rod." (For Antirattlers for Motor-Vehicles.) No. 22,450; Jan. 25; v. 282; p. 739.
- Withrow, Floyd G., Grand Rapids, Mich. "Handy Throttle & Gas Rod Anti-Rattlers." (For Antirattlers for Motor-Vehicles.) No. 22,451; Jan. 25; v. 282; p. 739.
- Witter, Alfred S., Seattle, Wash. "The Game of Traps." (For a Game.) No. 23,614; Nov. 1.
- Wm. Wrigley, Jr., Company, Chicago, Ill. "Wrigley's P-Ks Sugar Coated Gum." (For Gum.) Nos. 23,170-1; Aug. 9; v. 289; p. 409.
- Wolverine Spice Company, Grand Rapids, Mich. "Py-E-Ta." (For a Mixture for Filling Pies and Making other Desserts.) No. 22,941; May 24; v. 286; p. 861.
- Woodruff, Thomas E., Columbus, Ohio. "Woodruff's Wonder Worker." (For an Oil.) No. 22,420; Jan. 18; v. 282; p. 563.
- Woods, George O., Fargo, N. D. "Spell-Wood." (For a Game to Teach the Art of Spelling and Consisting of Pieces Bearing the Letters of the Alphabet.) No. 22,852; Mar. 29; v. 284; p. 956.
- Woodward & Cochey, Inc., Lynn, Mass. "Turnkraft." (For Gimps.) No. 22,599; Feb. 15; v. 283; p. 549.
- Woodward & Cochey, Inc., Lynn, Mass. "Autokraft." (For Welts, Bindings, and Gimps.) No. 22,853; Mar. 29; v. 284; p. 956.
- Woodward & Cochey, Inc., Lynn, Mass. "Boulevard." (For Shoe-Trimmings and Top-Facing.) No. 23,111; July 5; v. 288; p. 202.
- Woodward & Cochey, Inc., Lynn, Mass. "Flexo Harness." (For Toy Harnesses.) No. 23,716; Nov. 22.
- Worch, Albert, St. Paul, Minn. "La Sebana." (For Cigars, Cigarettes, and Tobacco.) No. 23,412; Sept. 6; v. 290; p. 225.
- Worden, R. F., & Sons. (See Menasha Printing and Carton Company, assignor.)
- Wright & Parker. (See Menasha Printing and Carton Company, assignor.)
- Wrigley, Wm., Jr., Company, Chicago, Ill. "Wrigley's Peppermint Chewing Gum." (For Chewing-Gum.) Nos. 23,112-13; July 5; v. 288; p. 202.
- Yates, Alvah W., Hartford, Conn. "Yates Quality Honey." (For Either Liquid or Comb Honey.) No. 22,686; Mar. 8; v. 284; p. 377.
- Ye Olden Times Company, New York, N. Y. "Referendum." (For Malt.) No. 22,942; May 24; v. 286; p. 861.
- York Hops, Malt & Malt Extract Co., New York, N. Y. "Purity." (For Malt Extract.) No. 22,525; Feb. 1; v. 283; p. 179.
- York Import Company, The, New York, N. Y. "Re-Nown Hair Net." (For Hair-Nets.) No. 22,421; Jan. 18; v. 282; p. 563.
- Young, Chas. W., & Co., Philadelphia, Pa. "Ternshoo Softener." (For Compound for Softening Leather to Render the Same Flexible and Pliable.) No. 22,788; Mar. 22; v. 284; p. 754.
- Young, F. E. Patrick, Company. (See Forbes, W. S., & Co., assignor.)
- Young, Thomas G., Baltimore, Md. "Radia." (For Automobile Accessories.) No. 22,526; Feb. 1; v. 283; p. 179.
- Young, W. F., Inc., Springfield, Mass. "Absorbine, Jr., The Antiseptic Liniment." (For Absorbine, Jr. Liniment.) No. 22,789; Mar. 22; v. 284; p. 754.
- Yuegling, D. C., & Son. (See Menasha Printing and Carton Company, assignor.)
- Zucker, Rachmiel G., Baltimore, Md. "My Formula." (For a Medicinal Preparation for the Treatment of Nervous Diseases.) No. 22,854; Apr. 12; v. 285; p. 390.
- Zucker, Rachmiel G., Baltimore, Md. "My Formula." (For Medicinal Preparation for the Treatment of Epileptic Fits and Convulsions.) No. 22,855; Apr. 12; v. 285; p. 390.

## ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

- A. P. W. Paper Company, Albany, N. Y. "The Onliwon—the Health-Guardian Good and Ready." (For Advertising Purposes for the Onliwon Paper Towels.) No. 5,573; Mar. 29; v. 284; p. 957.
- Acme Packing Co., Chicago, Ill. "A Feast of Flavor." (For Advertising Purposes for Canned Sausages.) No. 5,589; May 3; v. 286; p. 198.
- Acme Packing Co., Chicago, Ill. "A Good Sandwich is a Meal Anywhere." (For Advertising Purposes for Canned Corn-Beef.) No. 5,590; May 3; v. 286; p. 198.
- Acme Packing Co., Chicago, Ill. "Here is Something New Virginies." (For Advertising Canned Meat-Patties.) No. 5,604; May 31; v. 286; p. 1058.
- Acme Packing Co., Chicago, Ill. "Here's the Reflection of Corned Beef." (For Advertising Canned Corned Beef.) No. 5,605; May 31; v. 286; p. 1058.
- Acme Packing Co., Chicago, Ill. "Virginies Will Delight You." (For Advertising Purposes for Canned Wheat-Patties.) No. 5,654; July 5; v. 288; p. 203.
- Acme Packing Company, Chicago, Ill. "Corned Beef You Will Like." (For Advertising Purposes for Canned Corned Beef.) No. 5,681; July 26; v. 288; p. 828.
- Acme Packing Co., Chicago, Ill. "Virginies—a Treat in Meat." (For Advertising Purposes for Canned Meat Patties.) No. 5,693; Aug. 23; v. 289; p. 798.
- Adler, H., & Bro., New York, N. Y. "Ideal Hair Bow Ribbon." (For Advertising Purposes for Hair-Bow Ribbons.) No. 5,546; Mar. 22; v. 284; p. 755.
- Albers Bros. Milling Co., San Francisco, Calif. "Carnation Girls." (For Advertising Purposes for Mush Wheat Flakes.) No. 5,570; Mar. 29; v. 284; p. 957.
- Amalgamated Tire Stores Corporation, New York, N. Y. "Your Favorite Tire." (For Advertising Purposes for Tires.) No. 5,596; May 24; v. 286; p. 861.
- American Bosch Magneto Corporation, Springfield, Mass. "Magneto Type Battery System." (For Advertising Purposes for Ignition Apparatus.) No. 5,633; June 21; v. 287; p. 592.
- American Chicle Co., New York, N. Y. "America's Choice." (For Advertising Purposes for Adam's Black Jack Chewing-Gum.) No. 5,768; Oct. 18.
- American Druggists Syndicate, Long Island City, N. Y. "A. D. S. Aspirin." (For Aspirin.) No. 5,441; Jan. 18; v. 282; p. 564.
- American Druggists Syndicate, Long Island City, N. Y. "A. D. S. Improved Foot Soap." (For Advertising Purposes for a Foot-Soap for Swollen, Aching, Painful Feet.) No. 5,571; Mar. 29; v. 284; p. 957.
- American Druggists Syndicate, Long Island City, N. Y. "A. D. S. Foot Tablets." (For Advertising Purposes for Foot-Tablets.) No. 5,572; Mar. 29; v. 284; p. 957.
- American Druggists Syndicate, Long Island City, N. Y. "Vogue 'End-O-Spire.'" (For Advertising Purposes for a Toilet Preparation which Prevents Perspiration.) No. 5,591; May 3; v. 286; p. 198.
- American Lead Pencil Company, New York, N. Y. "The Largest Selling Quality Pencil in the World." (For Advertising Purposes for Lead-Pencils.) Nos. 5,655-6; July 5; v. 288; p. 203.
- American Lead Pencil Company, New York, N. Y. "Blue Band Velvet Pencils." (For Advertising Lead-Pencils.) No. 5,694; Aug. 23; v. 289; p. 798.
- American Lead Pencil Company, New York, N. Y. "Blue Band Velvet Pencil." (For Advertising Purposes for Lead-Pencils.) No. 5,845; Dec. 13.
- American Lead Pencil Company, New York, N. Y. "Venus Pencils C 37." (For Advertising Purposes for Lead-Pencils.) No. 5,846; Dec. 13.
- American Lead Pencil Company, New York, N. Y. "Venus Pencils C 38." (For Advertising Purposes for Lead-Pencils.) No. 5,847; Dec. 13.
- American Lead Pencil Company, New York, N. Y. "Venus Copying Pencils." (For Advertising Purposes for Copying-Pencils.) No. 5,848; Dec. 13.



## Alphabetical list of registrants of prints—Continued.

- American Lead Pencil Company, New York, N. Y. "Venus Thin Leads." (For Advertising Purposes for Lead-Pencils.) No. 5,849; Dec. 13.
- American Lead Pencil Company, New York, N. Y. "Ink-Bau Indelible Duplicating Pencil." (For Advertising Purposes for Indelible Pencils.) No. 5,850; Dec. 13.
- American Lead Pencil Company, New York, N. Y. "Venus Everpointed Pencils." (For Advertising Purposes for Lead-Pencils.) No. 5,851; Dec. 13.
- American Tobacco Company, The, New York, N. Y. "Frank Bacon Takes to Omar." (For Advertising Purposes for Cigarettes.) No. 5,878; Dec. 20.
- American Tobacco Company, The, New York, N. Y. "Tom' Masson Holding an Omar." (For Advertising Purposes for Cigarettes.) No. 5,879; Dec. 20.
- American Tobacco Company, The, New York, N. Y. "Raymond Hitchcock's Hand Holding an Omar." (For Advertising Purposes for Cigarettes.) No. 5,880; Dec. 20.
- American Tobacco Company, The, New York, N. Y. "William S. Hart Holds an Omar." (For Advertising Purposes for Cigarettes.) No. 5,881; Dec. 20.
- American Tobacco Company, The, New York, N. Y. "Leo Dittrichstein Holds an Omar." (For Advertising Purposes for Cigarettes.) No. 5,882; Dec. 20.
- American Tobacco Company, The, New York, N. Y. "Leon Erroll Holds His Omar Like This." (For Advertising Purposes for Cigarettes.) No. 5,883; Dec. 20.
- Andre Company, The, Brooklyn, N. Y. "Nalo." (For Nail-Polish.) No. 5,512; Feb. 15; v. 283; p. 550.
- Arctic Ice and Coal Company, Greensboro, N. C. "Eat Arctic Ice Cream, The Smile Follows the Spoon." (For Advertising Purposes for Ice-Cream and Ices.) No. 5,526; Mar. 8; v. 284; p. 378.
- Asbestos Roofing Company, Cleveland, Ohio. "Improved Asphalt Slab." (For Advertising Purposes for Asphalt-Shingle Roofs.) No. 5,802; Oct. 25.
- Aultman, Inc., Milwaukee, Wis. "Horse-Shoe Tires." (For Tires.) No. 5,442; Jan. 18; v. 282; p. 564.
- Aultman Inc., Milwaukee, Wis. "Ladish Quality." (For Advertising Purposes for Flour.) No. 5,769; Oct. 18.
- Auto Indicator Company, Grand Rapids, Mich. "Auto Indicator." (For Auto-Indicator.) No. 5,619; June 14; v. 287; p. 404.
- B. V. D. Company, The, New York, N. Y. "B. V. D. 1921 Youths' Union Suits." (For Advertising Purposes for Athletic Underwear.) No. 5,658; July 5; v. 288; p. 203.
- B. V. D. Company, The, New York, N. Y. "No Underwear is B. V. D. Without This Red Woven Label." (For Advertising Purposes for Athletic Underwear.) No. 5,659; July 5; v. 288; p. 203.
- B. V. D. Company, The, New York, N. Y. "Quality Ever Maintained." (For Advertising Purposes for Athletic Underwear.) No. 5,775; Oct. 18.
- Bachman Chocolate Manufacturing Co., Mount Joy, Pa. "Bachman 'the Finest Chocolate in the World.'" (For Chocolate.) No. 5,483; Feb. 1; v. 283; p. 180.
- Bachman Chocolate Manufacturing Co., Mount Joy, Pa. "Bachman 'The Finest Chocolate in the World.'" (For Advertising Purposes for Chocolate-Bars.) No. 5,634; June 21; v. 287; p. 592.
- Baker Gun Co., Norwich, Conn. "Baker Gun." (For Advertising Purposes for Guns.) No. 5,901; Dec. 27.
- Baltimore Commutator Company, The, Baltimore, Md. "Here It Is!" (For Commutators.) No. 5,675; July 12; v. 288; p. 430.
- Banov, Leon, New York, N. Y. "Clar-O-Type." (For Material for Cleaning Typewriters.) No. 5,730; Sept. 6; v. 290; p. 226.
- Becker, J. P., San Francisco, Calif. "Tell Time Right." (For Advertising Purposes for Watches and Clocks.) No. 5,684; Aug. 9; v. 289; p. 409.
- Beech-Nut Packing Company, Canajoharie, N. Y. "Handy Candy Orange Drops." (For Orange Drops.) No. 5,497; Feb. 8; v. 283; p. 362.
- Beech-Nut Packing Co., Canajoharie, N. Y. "Beech-Nut." (For Advertising Purposes for Ginger-Ale.) No. 5,592; May 3; v. 286; p. 198.
- Beech-Nut Packing Co., Canajoharie, N. Y. "You Can't Mistake the Flavor." (For Peanut-Butter.) No. 5,657; July 5; v. 288; p. 203.
- Beech-Nut Packing Co., Canajoharie, N. Y. "Beech-Nut Peanut Butter." (For Advertising Purposes for Beech-Nut Peanut-Butter.) No. 5,770; Oct. 18.
- Beech-Nut Packing Co., Canajoharie, N. Y. "Beech-Nut Ginger Ale." (For Advertising Purposes for Beech-Nut Ginger-Ale.) No. 5,771; Oct. 18.
- Beech-Nut Packing Co., Canajoharie, N. Y. "The Handy Candy." (For Advertising Purposes for Handy Candy.) No. 5,772; Oct. 18.
- Beech-Nut Packing Co., Canajoharie, N. Y. "Handy Candy Clove Flavor." (For Advertising Purposes for Beech-Nut Brand Handy Candy.) No. 5,773; Oct. 18.
- Beech-Nut Packing Co., Canajoharie, N. Y. "For Real Flavor Serve Beech-Nut Jellied Fruit." (For Advertising Purposes for Beech-Nut Jellied Fruit.) No. 5,774; Oct. 18.
- Best Toothache Pellet Co., Indianapolis, Ind. "Dox Best Toothache Pellets." (For Toothache Remedy.) No. 5,498; Feb. 8; v. 283; p. 362.
- Bis-Mac Co., The, Baltimore, Md. "Bis-Mac." (For Advertising Purposes for a Non-Intoxicating Beverage.) No. 5,831; Nov. 22.
- Black Hawk Tire & Rubber Company, Des Moines, Iowa. "Chief of the Trail." (For Automobile-Tires.) No. 5,484; Feb. 1; v. 283; p. 180.
- Bracken Furnishing Goods Company, The, Kansas City, Mo. "Spark Plug." (For Advertising Purposes for Neckwear.) No. 5,751; Sept. 13; v. 290; p. 432.
- Breakfast Brownies Company, Helena, Mont., and Minneapolis, Minn. "Jumped Into Favor Because of Its Flavor." (For Advertising Purposes for Breakfast Food.) No. 5,803; Oct. 25.
- Brinkman, Meisel & Recker Cigar Co., St. Louis, Mo. "Pow-Ha-Tan Cigars Good to the Last Puff." (For Cigars.) No. 5,574; Mar. 29; v. 284; p. 957.
- Broughton, Walter C., Kansas City, Mo. "Autosafe." (For Garages.) No. 5,443; Jan. 18; v. 282; p. 564.
- Brown & Bigelow, St. Paul, Minn. "Remembrance Advertising." (For Advertising Purposes for Art-Calendars, Greetings, and Utilities Made of Metal, Cloth, and Celluloid.) No. 5,528; Mar. 8; v. 284; p. 378.
- Brown & Bigelow, St. Paul, Minn. "Remembrance Advertising." (For Advertising Purposes for Art-Calendars, Greetings, and Utilities Made of Metal, Cloth, and Celluloid.) No. 5,575; Mar. 29; v. 284; p. 957.
- Brown, Richard H., New York, N. Y. "The Halliwell 'Turtle' Curling Iron Stove." (For Advertising Purposes for Heaters for Curling-Irons.) No. 5,776; Oct. 18.
- Brunswick, Balke, Collender Co., The, Chicago, Ill. "Famous Achievements." (For Advertising Purposes for Tires.) No. 5,695; Aug. 23; v. 289; p. 798.
- Bryant, Augustus H., Bloomfield, N. J., and New York, N. Y. "Blue Back Blades." (For Advertising Purposes for Safety-Razor Blades.) No. 5,731; Sept. 6; v. 290; p. 226.
- California Chocolate Shops, Inc., Los Angeles, Calif. "Quinby's." (For Advertising Purposes for Chocolates.) No. 5,852; Dec. 13.
- Canadian Fur Traders, Detroit, Mich. "Canada's Best Furs." (For Advertising Purposes for Furs.) No. 5,777; Oct. 18.
- Capitol Fuel Company, The, Cleveland, Ohio. "Capitol Fuel." (For Advertising Purposes for Coal.) No. 5,832; Nov. 22.
- Carberry, Johanna M., et al., trustees. (See Powers, James P., assignor.)
- Carleton & Hovey Company, Lowell, Mass. "Danger of Serious Illness." (For Advertising Purposes for Father John's Medicine.) No. 5,597; May 24; v. 286; p. 861.
- Carpenter-Morton Co., Boston, Mass. "Colorite." (For Advertising Purposes for Colorite.) No. 5,778; Oct. 18.
- Chapman, Frank, Providence, R. I. "Keep Kitchen Utensils from Rusting." (For Advertising Purposes for "Nokorode" Soldering-Paste.) No. 5,635; June 21; v. 287; p. 592.
- Chapman, Frank, Providence, R. I. "A Repair Bill Saved." (For Advertising Purposes for "Nokorode" Soldering-Paste.) No. 5,636; June 21; v. 287; p. 592.
- Chase & Sanborn, Boston, Mass. "Coffee or Tea—Chase & Sanborn's for Me." (For Advertising Purposes for Coffee and Tea.) No. 5,779; Oct. 18.
- Clarke, E. Co., The, Baltimore, Md. "Clarke's Virgin Peanut Oil." (For Advertising Purposes for Peanut-Oil.) No. 5,696; Aug. 23; v. 289; p. 798.
- Climax Specialties Co. Inc., The, Jersey City, N. J. "No-brush." (For Shoe-Polish.) No. 5,660; July 5; v. 288; p. 203.
- Cloud Accessories Corporation, Chicago, Ill. "Cloud '75' Spark Plug." (For Automobile Accessories.) No. 5,463; Jan. 25; v. 282; p. 740.
- Collis Products Company, Clinton, Iowa. "A Barrel of Satisfaction." (For Powdered Buttermilk.) No. 5,464; Jan. 25; v. 282; p. 740.
- Columbia Carbon Company, Dayton, Ohio. "The Mineral Wax Twins, Clean and Good." (For Advertising Purposes for Inked Ribbons and Carbon-Sheets for Duplicating or Transferring Impressions.) No. 5,732; Sept. 6; v. 290; p. 226.
- Columbia Mills Co., New York, N. Y. "The Factories Behind the Shade." (For Advertising Purposes for Window-Shades.) No. 5,713; Aug. 30; v. 289; p. 1021.
- Consolidated Shoe Company, Inc., Boston, Mass. "Foot Prints Shop." (For Advertising Purposes for Shoes.) No. 5,780; Oct. 18.
- Cook Paint & Varnish Company, Kansas City, Mo. "He's Painting It with Cook's." (For Advertising Purposes for Paint Products.) No. 5,685; Aug. 9; v. 289; p. 409.
- Corona Typewriter Company, Inc., Groton, N. Y. "Joe Martin." (For Corona Typewriters.) No. 5,313; Feb. 15; v. 283; p. 550.
- Craddock Terry Company, Lynchburg, Va., and St. Louis, Mo. "Billiken a Five-Room Apartment—a Room for Every Toe." (For Boots and Shoes.) No. 5,465; Jan. 25; v. 282; p. 740.
- Cream of Wheat Co., Minneapolis, Minn. "Imitation—The Sincerest Flattery." (For Wheat Breakfast Food.) No. 5,499; Feb. 8; v. 283; p. 362.
- Cream of Wheat Co., Minneapolis, Minn. "The Great American Daily." (For Advertising Purposes for Wheat Breakfast Food.) No. 5,547; Mar. 22; v. 284; p. 755.
- Cream of Wheat Co., Minneapolis, Minn. "Some Imitation." (For Advertising Purposes for Wheat Breakfast Food.) No. 5,620; June 14; v. 287; p. 404.
- Cream of Wheat Co., Minneapolis, Minn. "Uncle Tom's Cabin." (For Advertising Purposes for Wheat Breakfast Food.) No. 5,697; Aug. 23; v. 289; p. 798.



- Crosby, John B., Lake Bluff, Ill. "Layerwood." (For Advertising Purposes for Plywood and Wood Veneers.) No. 5,884; Dec. 20.
- Crowell Publishing Company, The, New York, N. Y. "Don't Forget Your Woman's Home Companion." (For Advertising Purposes for a Periodical Publication Entitled *Woman's Home Companion*.) No. 5,686; Aug. 9; v. 289; p. 409.
- Crowell Publishing Company, The, New York, N. Y. "Here's Your Latest American Magazine." (For Advertising Purposes for a Periodical Publication Entitled *American Magazine*.) No. 5,687; Aug. 9; v. 289; p. 409.
- Cryder, Floyd E., Chicago, Ill. "Sterling Milk." (For Advertising Purposes for Milk.) No. 5,752; Sept. 13; v. 290; p. 432.
- Cryder, Floyd E., Chicago, Ill. "Sterling Cream." (For Advertising Purposes for Cream.) No. 5,781; Oct. 18.
- Daniel Hays Company, The, Gloversville, N. Y. "Hays Superseam Buckskin Gloves." (For Women's Gloves.) No. 5,468; Jan. 25; v. 282; p. 740.
- Daniel Hays Company, The, Gloversville, N. Y. "Ristbelt." (For Leather Gloves.) No. 5,467; Jan. 25; v. 282; p. 740.
- De Laval Separator Co., The, New York, N. Y. "De Laval Cream Separators." (For Advertising Purposes for Cream-Separators.) No. 5,698; Aug. 23; v. 289; p. 798.
- De Lue, Frederick S., Needham, Mass. "De Lue's Golden Giant New Early Hybrid Sweet Corn." (For Advertising Purposes for Seed Corn.) No. 5,621; June 14; v. 287; p. 404.
- De Rigne, Chas. A., Los Angeles, Calif. "The De Rigne Pneumatic Pump." (For Advertising Purposes for Tire-Pumps.) No. 5,829; Nov. 8.
- Detroit Concrete Receptacle Co., Detroit, Mich. "Last a Life Time." (For Garbage-Receptacles.) No. 5,516; Feb. 15; v. 283; p. 550.
- Deubener, Walter H., St. Paul, Minn. "Kash Karry Koffee." (For Containers or Bags for Advertising Coffee.) No. 5,753; Sept. 13; v. 290; p. 432.
- Dow Manufacturing Company, Braintree, Mass. "Electric Household Utilities." (For Advertising Purposes for Washing-Machines.) No. 5,637; June 21; v. 287; p. 592.
- Dickinson, Albert, Company, The, Chicago, Ill. "Dickinson's Snow Ball Pop Corn." (For Advertising Purposes for Dickinson's Popcorn.) No. 5,853; Dec. 13.
- Dickinson, Albert, Company, The, Chicago, Ill. "Dickinson's Santa Claus Pop Corn." (For Advertising Purposes for Dickinson's Popcorn.) No. 5,854; Dec. 13.
- Dixie Rubber Company, The, Memphis, Tenn. "Dixie." (For Advertising Rubber Goods.) No. 5,529; Mar. 8; v. 284; p. 378.
- Dow Wire & Iron Works, Louisville, Ky. "Dow Auto Body Brace." (For Advertising Purposes for Body-Braces for Automobiles.) No. 5,530; Mar. 8; v. 284; p. 378.
- Eaton, Crane & Pike, Pittsfield, Mass. "I'm sure it must be important, Jenkins, or you wouldn't disturb me now." (For Advertising Purposes for Crane's Linen Lawn and Eaton's Highland Linen.) No. 5,782; Oct. 18.
- Ebling Bottling Co. Inc., The, New York, N. Y. "Ebling's Malt Tonic." (For Advertising Purposes for Malt Tonics.) No. 5,638; June 21; v. 287; p. 592.
- Fairbank, N. K., Company. "Fairy Soap Superior Quality Reasonably Priced." (For Fairy Soap.) No. 5,486; Feb. 1; v. 283; p. 180.
- Fairbank, N. K., Company, The, Chicago, Ill. "Covo." (For Advertising Purposes for Vegetable Oils for Salads and for Cooking.) No. 5,699; Aug. 23; v. 289; p. 798.
- Fairbank, N. K., Company, The, Chicago, Ill. "Fairy Soap." (For Advertising Purposes for Soap.) No. 5,700; Aug. 23; v. 289; p. 798.
- Fairbank, N. K., Company, The, New York, N. Y. "The Symbol of Fairy Purity." (For Advertising Purposes for Fairy Soap for Toilet and Bath.) No. 5,733; Sept. 6; v. 290; p. 226.
- Fairbank, N. K., Company, The, New York, N. Y. "Gold Dust Costs Little Goes Far." (For Advertising Purposes for Gold Dust Washing-Powder.) No. 5,734; Sept. 6; v. 290; p. 226.
- Fairbank, N. K., Company, The, New York, N. Y. "Kept Clean with Gold Dust." (For Advertising Purposes for Gold-Dust Washing-Powder.) No. 5,735; Sept. 6; v. 290; p. 226.
- Fairbank, N. K., Company, The, New York, N. Y. "Fairy Soap Pure White Floating." (For Advertising Purposes for Fairy Soap for Toilet and Bath.) No. 5,736; Sept. 6; v. 290; p. 226.
- Fairbank, N. K., Company, The, New York, N. Y. "For Your Spring Cleaning Gold Dust." (For Advertising Purposes for Gold Dust Washing-Powder.) No. 5,737; Sept. 6; v. 290; p. 226.
- Fairbank, N. K., Company, The, Chicago, Ill. "5¢ Will Still Buy Gold Dust—for Your Spring Cleaning." (For Advertising Gold Dust Washing-Powder.) No. 5,754; Sept. 13; v. 290; p. 432.
- Fairbank, N. K., Company, The, New York, N. Y. "Kept Clean with Gold Dust." (Ice-Box Design.) (For Advertising Purposes for Gold Dust Washing-Powder.) No. 5,824; Nov. 1.
- Felix Girard Co., Inc., The, Minneapolis, Minn. "Rat and Mouse Embalmers." (For Felix Girard Rat and Mouse Poison.) No. 5,622; June 14; v. 287; p. 404.
- Foamite Firefoam Company, New York, N. Y. "Frozen In." (For Advertising Purposes for Fire-Extinguishing Apparatus.) No. 5,783; Oct. 18.
- Franklin Clothing Manufacturing Co., St. Louis, Mo. "Franklin Fashions." (For Advertising Purposes for Men's Clothing.) No. 5,548; Mar. 22; v. 284; p. 755.
- Frictionless Metal Company, Chattanooga, Tenn. "Frictionless Bearing Metal." (For Use in Reference to Bearing Metal.) No. 5,593; May 3; v. 286; p. 198.
- Friedman, Mitchell J., Washington, D. C. "Automatic Yearly Calendar." (For Calendar.) No. 5,444; Jan. 18; v. 282; p. 564.
- General Baking Company, New York, N. Y. "Bond Bread." (For Advertising Purposes for Bond Bread.) No. 5,833; Nov. 22.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The Costume Party." (For Jell-O.) No. 5,468; Jan. 25; v. 282; p. 740.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The Nurse and Patient." (For Jell-O.) No. 5,500; Feb. 8; v. 283; p. 362.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The Grown-Ups." (For Advertising Purposes for a Dessert Preparation.) No. 5,598; May 24; v. 286; p. 861.
- Genesee Pure Food Company, The, Le Roy, N. Y. "Dorothy's Fifth Birthday." (For Advertising Purposes for a Dessert Preparation.) No. 5,599; May 24; v. 286; p. 861.
- Genesee Pure Food Company, The, Le Roy, N. Y. "I Wish Dinner'd Hurry." (For Advertising Purposes for Jell-O, a Dessert.) No. 5,661; July 5; v. 288; p. 203.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The 1921 Orange Jell-O." (For Advertising Purposes for Orange Jell-O, a Dessert Preparation.) No. 5,662; July 5; v. 288; p. 203.
- Genesee Pure Food Company, The, Le Roy, N. Y. "Mother's Birthday." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,663; July 5; v. 288; p. 203.
- Genesee Pure Food Company, The, Le Roy, N. Y. "Price's Grown-Ups." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,682; July 26; v. 288; p. 828.
- Genesee Pure Food Company, The, Le Roy, N. Y. "After the Hike." (For Advertising Jell-O, a Dessert Preparation.) No. 5,683; July 26; v. 288; p. 828.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The 1921 Neapolitan Jello." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,701; Aug. 23; v. 287; p. 798.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The 1921 Strawberry Jell-O." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,702; Aug. 23; v. 289; p. 798.
- Genesee Pure Food Company, The, Le Roy, N. Y. "Telling Mamma About Jell-O." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,834; Nov. 22.
- Genesee Pure Food Company, The, Le Roy, N. Y. "New England School Room Scene." (For Advertising Purposes for Jell-O.) No. 5,855; Dec. 13.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The Linn Ball Strawberry Jell-O." (For Advertising Purposes for Jell-O.) No. 5,856; Dec. 13.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The Southern Scene." (For Advertising Purposes for Jell-O.) No. 5,857; Dec. 13.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The Linn Ball Panel." (For Advertising Purposes for Jell-O.) No. 5,858; Dec. 13.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The Parish Poster." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,885; Dec. 20.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The Ranch Scene." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,886; Dec. 20.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The Bear Scene." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,887; Dec. 20.
- Genesee Pure Food Company, The, Le Roy, N. Y. "The New England Scene." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,888; Dec. 20.
- Gerstendorfer Bros., New York, N. Y. "Sapolin." (For Advertising Purposes for Stovepipe-Enamel.) No. 5,784; Oct. 18.
- Glass, Henry, & Co., New York, N. Y. "I Am Coming." (For Dress Fabrics.) No. 5,501; Feb. 8; v. 283; p. 362.
- Goldsmith, J., Jr., Providence, R. I. "Sentry-Uniform Slide Easy Hair Curlers." (For Advertising Purposes for Hair-Curlers.) No. 5,606; May 31; v. 286; p. 1058.
- Goldsmith, J., Jr., Providence, R. I. "The Sentry-Uniform Hair Bow Fastener." (For Advertising Purposes for Hair-Bow Fasteners.) No. 5,607; May 31; v. 286; p. 1058.
- Goodyear Tire & Rubber Co., The, Akron, Ohio. "Goodyear Belts Give Good Wear." (For Advertising Purposes for Rubber Belting.) No. 5,595; May 17; v. 286; p. 644.



## Alphabetical list of registrants of prints—Continued.

- Gosman Ginger Ale Co., The, Baltimore, Md. "Gosman Ginger Ale." (For Advertising Purposes for a Non-Alcoholic Beverage—Namely, Ginger-Ale.) No. 5,576; Mar. 29; v. 284; p. 957.
- Gotham Garter and Novelty Company, New York, N. Y. "Gotham Negligee Girdle." (For Girdles.) No. 5,487; Feb. 1; v. 283; p. 180.
- Gotthelf, Harry J., Minneapolis, Minn. "Makes The 'Rub' Easy on Wash Day." (For Advertising Purposes for Wash-Rub.) No. 5,549; Mar. 22; v. 284; p. 755.
- Grayson, J. H., Manufacturing Co., The, Athens, Ohio. "Realization." (For Advertising Purposes for Gas-Heaters.) No. 5,859; Dec. 13.
- Grayson, J. H., Manufacturing Co., The, Athens, Ohio. "Anticipation." (For Advertising Purposes for Gas-Heaters.) No. 5,860; Dec. 13.
- Grayson, J. H., Manufacturing Co., The, Athens, Ohio. "Expectation." (For Advertising Purposes for Gas-Heaters.) No. 5,861; Dec. 13.
- Green, Elizabeth R., Washington, D. C. "Betty Allen." (For Advertising Purposes for Ladies' Gowns.) No. 5,755; Sept. 13; v. 290; p. 432.
- Greist Manufacturing Company, The. (See Penn, A. C., Inc., assignor.)
- Grennan Cake Corporation, Chicago, Ill. "Grennan's More Than 50 Varieties." (For Advertising Purposes for Cake.) No. 5,804; Oct. 25.
- Hall & Ruckel, New York, N. Y. "X-Bazln." (For Advertising Purposes for Depilatory Powders.) No. 5,577; Mar. 29; v. 284; p. 957.
- Hamden Toy Co., The, Westfield, Mass. "The Hot Stuff Scarf Pin Made of Coal." (For Advertising Purposes for Scarf-Pins.) No. 5,560; Mar. 22; v. 284; p. 755.
- Hardeman, J. T., Hat Co., Seattle, Wash. "Hardeman Hats Better Hats for Men." (For Hats.) No. 5,664; July 5; v. 288; p. 203.
- Hares Motors, Inc., New York, N. Y. "We Shall Keep Faith." (For Advertising Purposes for Motors.) No. 5,676; July 12; v. 288; p. 430.
- Hares Motors, Inc., New York, N. Y. "We Shall Keep Faith." (For Advertising Purposes for Motor-Cars.) No. 5,677; July 12; v. 288; p. 430.
- Harris, A. W., Oil Co., Providence, R. I. "America's Leading Lubricants." (For Advertising Purposes for Lubricating Oils and Greases.) No. 5,902; Dec. 27.
- Hartmann Trunk Company, Racine, Wis. "A New Travel Creation." (For Advertising Purposes for Wardrobe-Trunks.) No. 5,805; Oct. 25.
- Hartmann Trunk Company, Racine, Wis. "Presenting Castle-Grande." (For Advertising Purposes for Wardrobe-Trunks.) No. 5,806; Oct. 25.
- Haynes Automobile Company, The, Kokomo, Ind. "The New Series Haynes Touring Car." (For Automobiles.) No. 5,469; Jan. 25; v. 282; p. 740.
- Haynes Automobile Co., The, Kokomo, Ind. "The Improved Instrument Board." (For Automobiles.) No. 5,488; Feb. 1; v. 283; p. 180.
- Haynes Automobile Company, The, Kokomo, Ind. "The New Car of Life and Youth Haynes Special Speedster." (For Automobiles.) No. 5,502; Feb. 8; v. 283; p. 362.
- Haynes Automobile Company, The, Kokomo, Ind. "The New 1921 Haynes Tourister." (For Advertising Purposes for Automobiles.) No. 5,542; Mar. 15; v. 284; p. 588.
- Haynes Automobile Company, The, Kokomo, Ind. "The New 1921 Brougham." (For Advertising Purposes for Automobiles.) No. 5,578; Mar. 29; v. 284; p. 957.
- Haynes Automobile Company, The, Kokomo, Ind. "Closed Cars That Echo Position." (For Advertising Purposes for Automobiles.) No. 5,579; Mar. 29; v. 284; p. 957.
- Haynes Automobile Co., Kokomo, Ind. "The Haynes Special Speedster." (For Advertising Purposes for Automobiles.) No. 5,608; May 31; v. 286; p. 1058.
- Haynes Automobile Company, Kokomo, Ind. "The New Series Haynes Tourister." (For Advertising Purposes for Automobiles.) No. 5,609; May 31; v. 286; p. 1058.
- Haynes Automobile Company, The, Kokomo, Ind. "Truth in Advertising." (For Advertising Purposes for Automobiles.) No. 5,610; May 31; v. 286; p. 1058.
- Haynes Automobile Company, The, Kokomo, Ind. "Haynes 1921 Closed Cars." (For Advertising Purposes for Automobiles.) No. 5,611; May 31; v. 286; p. 1058.
- Haynes Automobile Company, The, Kokomo, Ind. "Haynes Character Cars." (For Advertising Purposes for Automobiles.) No. 5,756; Sept. 13; v. 290; p. 432.
- Haynes Automobile Company, The, Kokomo, Ind. "Haynes 50 the Smaller and Lighter Haynes Car." (For Advertising Purposes for Automobiles.) No. 5,785; Oct. 18.
- Haynes Automobile Company, The, Kokomo, Ind. "Haynes Character Cars." (For Advertising Purposes for Automobiles.) No. 5,807; Oct. 25.
- Haynes Automobile Company, The, Kokomo, Ind. "The Crowning Achievement of America's Oldest Automobile Manufacturers." (For Advertising Purposes for Automobiles.) No. 5,889; Dec. 20.
- Hays, Daniel, Company, The, Gloversville, N. Y. "Illustrating Hays Mahogany Colored Cape with Two-Tone Embroidered Back." (For Leather Gloves.) No. 5,514; Feb. 15; v. 283; p. 550.
- Hays, Daniel, Company, The, Gloversville, N. Y. "Illustrating Hays Double-Built Buckskin with Wrist-Strap and Removable Inner Gloves of Knit Wool." (For Leather Gloves.) No. 5,515; Feb. 15; v. 283; p. 550.
- Hays, Daniel, Company, The, Gloversville, N. Y. "Ordinary Rip and Trouble Stitching Superseam Stitching That Will Not Ravel." (For Advertising for Hays's Gloves.) No. 5,527; Mar. 8; v. 284; p. 378.
- Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Vinegars Every drop awakens flavor All your skill in salad making goes for naught if the vinegar is not right." (For Heinz Vinegars.) No. 5,470; Jan. 25; v. 282; p. 740.
- Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Vinegars Every drop awakens flavor If the success of a salad depends on the dressing—and it certainly does—then it follows that the success of the dressing depends on the vinegar used." (For Heinz Vinegars.) No. 5,471; Jan. 25; v. 282; p. 740.
- Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Oven Baked Beans The Greeting of Smiles—pleasant smiles of appreciation—is to be expected when Heinz Baked Beans are served." (For Heinz Baked Beans.) No. 5,472; Jan. 25; v. 282; p. 740.
- Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Oven Baked Beans The first taste proves to you how good baked beans can be, and you realize that there is something about them that seems different." (For Heinz Baked Beans.) No. 5,473; Jan. 25; v. 282; p. 740.
- Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Oven Baked Beans Do you know how good they taste?" (For Heinz Baked Beans.) No. 5,474; Jan. 25; v. 282; p. 740.
- Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Vinegar, Every drop awakens flavor. In ordering vinegar be sure of its purity." (For Advertising Purposes for Vinegar.) No. 5,551; Mar. 22; v. 284; p. 755.
- Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Vinegars Every drop awakens flavor The Ideal Vinegar calls to life the latent flavors in foods, and blends deliciously with them." (For Advertising Purposes for Vinegar.) No. 5,552; Mar. 22; v. 284; p. 755.
- Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Spaghetti sometimes it is doubted that Spaghetti so delicious could come in a can—but when you send for and show the very can it came in, the case is proved." (For Advertising Purposes for Heinz Spaghetti.) No. 5,553; Mar. 22; v. 284; p. 755.
- Heinz, H. J., Company, Pittsburgh, Pa. "Heinz Spaghetti, Ready cooked ready to serve its richness and fine flavor appeal to everyone who appreciates good cooking." (For Advertising Purposes for Heinz Spaghetti.) No. 5,554; Mar. 22; v. 284; p. 755.
- Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Vinegars, Pints, Quarts, Half Gallons, Perfect, Salad Dressing and Heinz Vinegars Go Together." (For Advertising Purposes for Heinz Vinegars and Olive-Oil.) No. 5,612; May 31; v. 286; p. 1058.
- Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Oven Baked Beans, Foods That Taste Good—Foods That Do You Good." (For Advertising Purposes for Heinz Oven-Baked Beans.) No. 5,613; May 31; v. 286; p. 1058.
- Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Oven Baked Beans, That Heinz Baked Beans Are As Good As They Are." (For Advertising Purposes for Heinz Oven-Baked Beans.) No. 5,614; May 31; v. 286; p. 1058.
- Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Tomato Ketchup Beef Loaf." (For Advertising Purposes for Heinz Tomato Ketchup.) No. 5,623; June 14; v. 287; p. 404.
- Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Tomato Ketchup When You are Wondering About the Distinctively Delicious Flavor of Heinz Tomato Ketchup." (For Advertising Purposes for Heinz Tomato Ketchup.) No. 5,624; June 14; v. 287; p. 404.
- Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Cream of Tomato Soup Made with Real Cream." (For Advertising Purposes for Heinz Cream of Tomato Soup.) No. 5,625; June 14; v. 287; p. 404.
- Heinz, H. J., Co., Pittsburgh, Pa. "Good Foods for Young Appetites Heinz Oven Baked Beans." (For Advertising Purposes for Heinz Oven-Baked Beans.) No. 5,665; July 5; v. 288; p. 203.
- Heinz, H. J., Co., Pittsburgh, Pa. "Makes Eating More Fun." (For Heinz Apple-Butter.) No. 5,666; July 5; v. 288; p. 203.
- Heinz, H. J., Co., Pittsburgh, Pa. "Here's a Meal Already Cooked Heinz Spaghetti Cooked Ready to Serve." (For Heinz Cooked Spaghetti.) No. 5,667; July 5; v. 288; p. 203.
- Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Vinegars, Pints, Quarts, Half-Gallons. Any Salad Dressing will be Better by the Use of These Vinegars." (For Advertising Purposes for Heinz Vinegars and Olive-Oil.) No. 5,703; Aug. 23; v. 289; p. 798.
- Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Vinegars, Pints, Quarts, Half-Gallons, in Bottles Filled and Sealed in the Heinz Establishment. These fragrant piquant Vinegars." (For Advertising Purposes for Heinz Vinegars and Olive-Oil.) No. 5,704; Aug. 23; v. 289; p. 798.
- Heinz, H. J., Co., Pittsburgh, Pa. "Every Drop Awakens Flavor Heinz Vinegars." (For Advertising Purposes for Heinz Vinegars.) No. 5,714; Aug. 30; v. 289; p. 1021.
- Heinz, H. J., Co., Pittsburgh, Pa. "Every Drop Awakens Flavor Heinz Vinegars Here's Zest to Lagging Appetites." (For Advertising Purposes for Heinz Vinegars.) No. 5,808; Oct. 25.



- Heinz, H. J., Co., Pittsburgh, Pa. "Every Drop Awakens Flavor Heinz Vinegars Fresh Vegetables and Salads." (For Advertising Purposes for Heinz Vinegars.) No. 5,809; Oct. 25.
- Herzog, M., New York, N. Y. "Jannetta." (For Advertising Purposes for Hair-Nets.) No. 5,786; Oct. 18.
- Hills Bros., San Francisco, Calif. "Hill Bros. Red Can Coffee." (For Advertising Purposes for Coffee.) No. 5,543; Mar. 15; v. 284; p. 588.
- Hills Bros., San Francisco, Calif. "Hills Bros. Red Can Coffee." (For Advertising Purposes for Coffee.) No. 5,688; Aug. 9; v. 289; p. 409.
- Hills Bros., San Francisco, Calif. "Quality Inn." (For Advertising Purposes for Coffee.) No. 5,862; Dec. 13.
- Hills Bros., San Francisco, Calif. "Thoroughbreds." (For Advertising Purposes for Coffee.) No. 5,863; Dec. 13.
- Hills Bros., San Francisco, Calif. "The Winning Cup." (For Advertising Purposes for Coffee.) No. 5,864; Dec. 13.
- Hockenjos, J. J., Co., Newark, N. J. "Wet Paint Believe the Painter." (For Paint.) No. 5,445; Jan. 18; v. 282; p. 564.
- Hoeldtler, Herman, Milwaukee, Wis. "Autoists' Accurate Garage Thermometer." (For Garage-Thermometer.) No. 5,689; Aug. 9; v. 289; p. 409.
- Hoffman, Martin M., Oakland, Calif. "Peanut Andy." (For Advertising Purposes for Peanut Candy.) No. 5,825; Nov. 1.
- Holland-O'Neal Milling Co., Springfield, Ohio. "Susanne." (For Advertising Purposes for Flour.) No. 5,865; Dec. 13.
- Hood Rubber Company, Watertown, Mass. "Hood Tires." (For Advertising Purposes for Motor-Vehicle Tires.) No. 5,615; May 31; v. 286; p. 1058.
- Horton, F. T., Co., Inc., Hoboken, N. J. "Vanderbilt's Bird Song Restorer." (For a Bird Tonic and Song-Restorer.) No. 5,810; Oct. 25.
- Howard, George T., West Newton, Mass. "V-I-I-O Voice Tablet." (For Voice Tablets.) No. 5,475; Jan. 25; v. 282; p. 740.
- Howard, George T., Boston, Mass. "V-I-I-O Voice Gum." (For Advertising Purposes for Voice-Gum.) No. 5,555; Mar. 22; v. 284; p. 755.
- Hoyt, Howard H., Candy Co., Chicago, Ill. "It's Hoyt's, You'll Like It." (For Candy—Namely, Selected Sweets.) No. 5,715; Aug. 30; v. 289; p. 1021.
- Jobbers Overall Co., Inc., Lynchburg, Va. "From the Ground Up." (For Overalls.) No. 5,489; Feb. 1; v. 283; p. 180.
- Jobbers Overall Co., Inc., Lynchburg, Va. "600,000 Blue Buckle Salesmen." (For Overalls.) No. 5,531; Mar. 8; v. 284; p. 378.
- Jobbers Overall Co., Inc., Lynchburg, Va. "Blue Buckles' Freedom." (For Overalls.) No. 5,532; Mar. 8; v. 284; p. 378.
- Joint Coffee Trade Publicity Committee of The United States, New York, N. Y. "Time Dispers Our Old Illusions." (For Advertising Purposes for Coffee.) No. 5,580; Mar. 29; v. 284; p. 957.
- Joint Coffee Trade Publicity Committee of The United States, New York, N. Y. "The Passing of Our Old 'Bugaboos.'" (For Advertising Purposes for Coffee.) No. 5,581; Mar. 29; v. 284; p. 957.
- Joint Coffee Trade Publicity Committee of The United States, New York, N. Y. "The First Food of the Morning." (For Advertising Purposes for Coffee.) No. 5,582; Mar. 29; v. 284; p. 957.
- Joint Coffee Trade Publicity Committee of The United States, New York, N. Y. "A Life Saver Among Life Savers." (For Advertising Purposes for Coffee.) No. 5,639; June 21; v. 287; p. 592.
- Joint Coffee Trade Publicity Committee of The United States, New York, N. Y. "Coffee and Courage are Shipmates." (For Advertising Purposes for Coffee.) No. 5,640; June 21; v. 287; p. 592.
- Joint Coffee Trade Publicity Committee of The United States, New York, N. Y. "When Your Collar Starts to Wilt." (For Advertising Purposes for Coffee.) No. 5,641; June 21; v. 287; p. 592.
- Joint Coffee Trade Publicity Committee of The United States, New York, N. Y. "When You Entertain." (For Advertising Purposes for Coffee.) No. 5,642; June 21; v. 287; p. 592.
- Joint Coffee Trade Publicity Committee of The United States, New York, N. Y. "My Reputation Depends on Coffee." (For Advertising Purposes for Coffee.) No. 5,643; June 21; v. 287; p. 592.
- Joint Coffee Trade Publicity Committee of The United States, New York, N. Y. "Iced Coffee More Than Merely Cooling." (For Advertising Purposes for Coffee.) No. 5,644; June 21; v. 287; p. 592.
- Joint Coffee Trade Publicity Committee of The United States, New York, N. Y. "Anybody Can Make Good Coffee If—." (For Advertising Purposes for Coffee.) No. 5,645; June 21; v. 287; p. 592.
- Joint Coffee Trade Publicity Committee of The United States, New York, N. Y. "The Zero Hour." (For Advertising Purposes for Coffee.) No. 5,646; June 21; v. 287; p. 592.
- Joslin, William H., Providence, R. I. "Assortment Shoe Laces." (For Advertising Purposes for Shoe-Laces.) No. 5,716; Aug. 30; v. 289; p. 1021.
- Kaiser & Co., New York, N. Y. "Every One A Winner." (For Advertising Purposes for Hosiery.) No. 5,616; May 31; v. 286; p. 1058.
- Kant-Rust Products Corporation, Rahway, N. J. "Kant-Rust." (For Advertising Purposes for Rust Preventing and Removing Composition.) No. 5,866; Dec. 13.
- Katz, I. and M., Kansas City, Mo. "Katz Pays the Tax." (For Advertising Purposes for Cigars and Tobacco.) No. 5,826; Nov. 1.
- Kay Manufacturing Co., The, New York, N. Y. "An Ounce of Prevention is Worth a Pound of Cure." (For Window-Guards.) No. 5,511; Feb. 8; v. 283; p. 362.
- Kellogg Toasted Corn Flake Co., Battle Creek, Mich. "They Never Tire of Corn Flakes When You Give Them—Kellogg's." (For Advertising Purposes for Kellogg's Toasted Corn Flakes.) No. 5,890; Dec. 20.
- Kelly, George, Columbus, Ohio. "His Master's Choice." (For Advertising Purposes for Cigars.) No. 5,617; May 31; v. 286; p. 1058.
- Kelly, J. A., & Brothers, Clinton, Iowa. "Kelly Comfort Chairs." (For Advertising Purposes for Reclining-Chairs.) No. 5,738; Sept. 6; v. 290; p. 226.
- Kelly, J. A., & Brothers, Clinton, Iowa. "Kelly Soft Seat Bed Davenport." (For Advertising Purposes for Bed-Davenports.) No. 5,787; Oct. 18.
- Kirk-Barber Company, Chicago, Ill. "Fly-Wheel Service." (For Advertising Purposes for Flywheel Gear-Rings.) No. 5,583; Mar. 29; v. 284; p. 957.
- Kirk, James S., & Company, Chicago, Ill. "For the Hair and Complexion." (For Advertising Kirk's "Jap-Rose" Soap.) No. 5,533; Mar. 8; v. 284; p. 378.
- Kirk, James S., and Company, Chicago, Ill. "Let the Kiddies Romp and Play." (For Advertising Kirk's "Jap Rose" Soap.) No. 5,534; Mar. 8; v. 284; p. 378.
- Kirk, James S., and Company, Chicago, Ill. "For the Delicate and Tender Facial Skin." (For Advertising Kirk's "Jap Rose" Soap.) No. 5,535; Mar. 8; v. 284; p. 378.
- Kirk, James S., & Company, Chicago, Ill. "The Event of the Day." (For Advertising Kirk's "Jap Rose" Soap.) No. 5,556; Mar. 22; v. 284; p. 755.
- Kirk, James S., & Company, Chicago, Ill. "Golden Transparent." (For Advertising Kirk's "Jap Rose" Soap.) No. 5,557; Mar. 22; v. 284; p. 755.
- Kirk, James S., & Company, Chicago, Ill. "The Secret of Beautiful Skin and Lustrous Hair." (For Advertising Kirk's "Jap-Rose" Soap.) No. 5,558; Mar. 22; v. 284; p. 755.
- Kirk, James S., Company, Chicago, Ill. "Glorious Hair." (For Advertising Kirk's "Jap Rose" Soap.) No. 5,757; Sept. 13; v. 290; p. 432.
- Kirk, James S., Company, Chicago, Ill. "The Wonder Soap." (For Advertising Kirk's Original Cocoa Hard-water Castile Soap.) No. 5,758; Sept. 13; v. 290; p. 432.
- Kirk, James S., Company, Chicago, Ill. "A Beautiful Skin." (For Advertising Kirk's "Jap Rose" Soap.) No. 5,759; Sept. 13; v. 290; p. 432.
- Koehler, Henry, & Co., Louisville, Ky. "Koehler." (For Advertising Purposes for Lumber.) No. 5,559; Mar. 22; v. 284; p. 755.
- Kroehler Mfg. Company, Naperville, Ill. "An Added Room—Subtracted Rent." (For Advertising Purposes for Bed-Davenports.) No. 5,812; Oct. 25.
- Kronberger, Alfred M., Boston, Mass. "Corns Hurt." (For Advertising Purposes for Alzo Liquid Preparation to Remove Corns.) No. 5,891; Dec. 20.
- Lee, H. D., Mercantile Co., Salina, Kans., and Kansas City, Mo. "Just Like Dad's." (For Advertising Purposes for One-Piece Garments.) No. 5,626; June 14; v. 287; p. 404.
- Lee Hardware Company, The, Salina, Kans. "Now Standardized—Nurex Tabbings Compound." (For Tabbings Compound.) No. 5,490; Feb. 1; v. 283; p. 180.
- Lehmsberg, William, Philadelphia, Pa. "The Diamond Set Fez." (For "Fez" Hats.) No. 5,491; Feb. 1; v. 283; p. 180.
- Lenz, William G., Brooklyn, N. Y. "Flashlight Lamps." (For Advertising and Display Purposes for Flashlight-Lamps.) No. 5,788; Oct. 18.
- Linden, George J., Worcester, Mass. "Phys-I-Og-Nomy Hat Chart." (For Advertising Purposes for Hats.) No. 5,627; June 14; v. 287; p. 404.
- Lockwood Store at Your Door Company, Chicago, Ill. "Store at Your Door." (For Portable Grocery-Stores.) No. 5,517; Feb. 15; v. 283; p. 550.
- Lorillard, P., Company, Inc., New York, N. Y. "It Aint Toothache—It's Climax." (For Chewing-Tobacco.) No. 5,671; July 5; v. 288; p. 203.
- Marshall Canning Company, Marshalltown, Iowa. "Dairy Maid." (For Korn Kernels.) No. 5,536; Mar. 8; v. 284; p. 378.
- McGrath, J. C., Portland, Me. "Sebago." (For Cigars.) No. 5,446; Jan. 18; v. 282; p. 564.
- McLendon, Abner P., Waco, Tex. "It's The Taste That Tells." (For Advertising Purposes on Ice-Cream.) No. 5,739; Sept. 6; v. 290; p. 226.
- McQuay-Norris Mfg. Co., St. Louis, Mo. "10 Years of Leadership in Piston Ring Engineering." (For Advertising Purposes for Piston-Rings.) No. 5,584; Mar. 29; v. 284; p. 957.



*Alphabetical list of registrants of prints—Continued.*

- Marrow Machine Company, The, Hartford, Conn. "The Marrow Machine Company." (For Advertising Purposes for Sewing-Machines, Including Overseaming and Overedging and Shell-Stitch Machines and the Products Thereof.) No. 5,789; Oct. 18.
- Messler, Madge, Providence, R. I. "Dressmakers Snap Fasteners." (For Advertising Purposes for Snap-Fasteners.) No. 5,717; Aug. 30; v. 289; p. 1021.
- Mettenhoff, Oscar F., Lincoln, Ill. "290 Eggs in One Year." (For Advertising Purposes for Poultry and Eggs.) No. 5,827; Nov. 1.
- Meyer, H. H., Packing Company, The, Cincinnati, Ohio. "Remove All Doubt! Order Partridge Ham and Bacon." (For Advertising Purposes for Ham and Bacon.) No. 5,867; Dec. 13.
- Midland Cereal Products Co., Inc., Denver, Colo. "Whole Wheat Nuggets." (For Advertising Purposes for a Wheat Breakfast Cereal.) Nos. 5,537-8; Mar. 8; v. 284; p. 378.
- Midwest Fisheries Association, Kansas City, Mo. "If It Swims We Have It." (For Advertising Purposes for Fish.) No. 5,847; June 21; v. 287; p. 592.
- Miller Rubber Co., The, Akron, Ohio. "Miller Surgeons Grade Rubber Goods." (For Water-Bottles and Rubber Goods Known as the Surgeon's Grade.) No. 5,518; Feb. 15; v. 283; p. 550.
- Miller Rubber Co., The, Akron, Ohio. "I am Penalized if One Comes Back." (For Advertisement of Tires.) No. 5,668; July 5; v. 288; p. 203.
- Monarch Bitters Co., Buffalo, N. Y. "Winecup." (For Advertising Purposes for Soft Drinks.) No. 5,705; Aug. 23; v. 289; p. 798.
- Morris, Mann & Reilly, Chicago, Ill. "Red Seal Hair Nets Are Good." (For Advertising Hair-Nets.) No. 5,718; Aug. 30; v. 289; p. 1021.
- Morrison-Ricker Mfg. Company, Grinnell, Iowa. "Grinnell Dress Gloves—The Touch of Correctness." (For Gloves.) No. 5,503; Feb. 8; v. 283; p. 362.
- Morrison-Ricker Mfg. Company, Grinnell, Iowa. "Grinnell Gloves, 'Best for Every Purpose.'" (For Advertising Purposes for Gloves.) Nos. 5,760-3; Sept. 13; v. 290; p. 432.
- N. K. Fairbank Company, The, Chicago, Ill. "Fair Soap as Lovely at Dawn as by Candle Light." (For Soap for Toilet and Bath.) No. 5,519; Feb. 15; v. 283; p. 550.
- N. K. Fairbank Company, The, Chicago, Ill. "Fair Soap." (For Advertising Purposes for Soap for Toilet and for Bath.) No. 5,560; Mar. 22; v. 284; p. 755.
- National Carbon Company, Inc., Cleveland, Ohio. "Columbia Dry Batteries." (For Advertising Purposes for Columbia Dry Batteries.) No. 5,835; Nov. 22.
- National Carbon Company, Inc., Cleveland, Ohio. "Columbia Storage Batteries." (For Advertising Purposes for Columbia Storage Batteries.) Nos. 5,836-7; Nov. 22.
- National Carbon Co., Inc., Cleveland, Ohio. "Powerful Dependable, Worthy of the Name." (For Advertising Purposes for Columbia Storage Batteries.) No. 5,892; Dec. 20.
- National Dairy Council, Chicago, Ill. "There are No Substitutes for Dairy Products and Healthy Children." (For Advertising Purposes for Dairy Products.) No. 5,706; Aug. 23; v. 289; p. 798.
- New York Mackintosh Clothing Co., New York, N. Y. "Dri-Girl." (For Advertising Purposes for Waterproof Outer Garments.) No. 5,813; Oct. 25.
- New York Mackintosh Clothing Co., New York, N. Y. "Dri-Girl." (For Advertising Purposes for Waterproof Outer Garments.) No. 5,814; Oct. 25.
- New York Mackintosh Clothing Co., New York, N. Y. "Cape-Girl." (For Advertising Purposes for Waterproof Outer Garments.) No. 5,815; Oct. 25.
- Niagara Knitting Mills Corp., New York, N. Y. "Neptune's Daughter." (For Advertising Purposes for Bathing-Suits.) No. 5,628; June 14; v. 287; p. 404.
- Niss, C. & Sons, Inc., Milwaukee, Wis. "The Niss Plan." (For Advertising Furniture for Homes.) Nos. 5,868-9; Dec. 13.
- North American Fruit Exchange, Jersey City, N. J., and New York, N. Y. "Yelostone Brand Potatoes." (For Potatoes.) No. 5,476; Jan. 25; v. 282; p. 740.
- Northam Warren Corporation, New York, N. Y. "Don't Cut the Cuticle." (For Advertising Purposes for Manicure Preparations.) No. 5,828; Nov. 1.
- Notaseme Hosiery Company, Philadelphia, Pa. "So Smooth So Snug." (For Advertising Purposes for Hosiery.) No. 5,719; Aug. 30; v. 289; p. 1021.
- Nyal Co., Detroit, Mich. "Nyal Corn Remover for Mine." (For Advertising Purposes for a Corn Remedy.) No. 5,740; Sept. 6; v. 290; p. 226.
- Nye, Joseph K., Fish Island, New Bedford, Mass. "Nyoll." (For Advertising Purposes for Nyoll, a Lubricant.) No. 5,790; Oct. 18.
- O'Bryan Brothers, Inc., Nashville, Tenn. "Duck Head." (For Overalls.) No. 5,669; July 5; v. 288; p. 203.
- Oodorono Co., The, Cincinnati, Ohio. "Odo-Ro-No Ends Perspiration Annoyance." (For Advertising Purposes for Liquid Deodorizing Preparations for Perspiration Annoyance.) No. 5,648; June 21; v. 287; p. 592.
- Orange Crush Company, Chicago, Ill. "—like oranges? drink Orange-Crush." (For Advertising Purposes for Orange Crush.) No. 5,838; Nov. 22.
- Orange Crush Company, Chicago, Ill. "—like lemon? drink Lemon-Crush." (For Advertising Purposes for Lemon Crush.) No. 5,839; Nov. 22.
- Osiason, John, Fall River, Mass. "What the World Rests On." (For Advertising Purposes for Mattresses, Pillows, Bed-Springs.) No. 5,600; May 24; v. 286; p. 861.
- Oswald, Jaeger Baking Co., Milwaukee, Wis. "4th of July." (For Advertising Purposes for Bread.) No. 5,741; Sept. 6; v. 290; p. 226.
- Oswald, Jaeger Baking Co., Milwaukee, Wis. "Labor Day." (For Advertising Purposes for Bread.) No. 5,742; Sept. 6; v. 290; p. 226.
- Oswald, Jaeger Baking Co., Milwaukee, Wis. "Thanksgiving." (For Advertising Purposes for Bread.) No. 5,743; Sept. 6; v. 290; p. 226.
- Oswald, Jaeger Baking Co., Milwaukee, Wis. "Memorial Day." (For Advertising Purposes for Bread.) No. 5,791; Oct. 18.
- Owl Garage & Repair Co., Washington, D. C. "Call the Owl." (For Advertising Purposes for Oils, Gas, Automobile-Repair Parts, Batteries and Accessories.) No. 5,649; June 21; v. 287; p. 592.
- P. J. Donovan, "Look! The Lucky Hook." (For Spark-Plugs.) No. 5,485; Feb. 1; v. 283; p. 180.
- Palmolive Company, The, Milwaukee, Wis. "The Natural Way." (For Palmolive Soap.) No. 5,439; Jan. 11; v. 282; p. 384.
- Palmolive Company, The, Milwaukee, Wis. "Wash Your Face Every Day." (For Palmolive Soap.) No. 5,440; Jan. 11; v. 282; p. 384.
- Palmolive Company, The, Milwaukee, Wis. "Stop Shaving the Old Way." (For Shaving-Cream.) No. 5,477; Jan. 25; v. 282; p. 740.
- Palmolive Company, Milwaukee, Wis. "Cross Out These Mistakes in Shaving." (For Shaving-Cream.) No. 5,496; Feb. 1; v. 283; p. 180.
- Palmolive Company, The, Milwaukee, Wis. "The Cosmetics of Cleopatra." (For Palmolive Soap.) No. 5,504; Feb. 8; v. 283; p. 362.
- Palmolive Company, The, Milwaukee, Wis. "The Means to Beauty." (For Palmolive Soap.) No. 5,505; Feb. 8; v. 283; p. 362.
- Palmolive Company, The, Milwaukee, Wis. "Why Soap and Water Improves Your Skin." (For Palmolive Soap.) No. 5,520; Feb. 15; v. 283; p. 550.
- Palmolive Company, The, Milwaukee, Wis. "New Facts On Shaving." (For Advertising Purposes for Shaving-Cream.) No. 5,539; Mar. 8; v. 284; p. 378.
- Palmolive Company, The, Milwaukee, Wis. "Washing for Beauty." (For Advertising Purposes for Palmolive Soap.) No. 5,544; Mar. 15; v. 284; p. 588.
- Palmolive Company, The, Milwaukee, Wis. "Wash Them Away." (For Advertising Purposes for Palmolive Soap.) No. 5,561; Mar. 22; v. 284; p. 755.
- Palmolive Company, The, Milwaukee, Wis. "Have a Beautiful Skin." (For Advertising Purposes for Palmolive Soap.) No. 5,585; Mar. 29; v. 284; p. 957.
- Palmolive Company, The, Milwaukee, Wis. "Making a Beauty Treatment." (For Advertising Purposes for Palmolive Soap.) No. 5,594; May 3; v. 286; p. 198.
- Palmolive Company, The, Milwaukee, Wis. "The Cosmetic Oils of Cleopatra Combined in a Cake of Soap." (For Advertising Purposes for Palmolive Soap.) No. 5,670; July 5; v. 288; p. 203.
- Palmolive Company, The, Milwaukee, Wis. "The Girl You Stop to Look At." (For Palmolive Soap.) No. 5,678; July 12; v. 288; p. 430.
- Palmolive Company, Milwaukee, Wis. "Complexions—Night and Noon." (For Advertising Purposes for Palmolive Soap.) No. 5,720; Aug. 30; v. 289; p. 1021.
- Palmolive Company, The, Milwaukee, Wis. "Keep That School Girl Complexion." (For Advertising Purposes for Palmolive Soap.) No. 5,792; Oct. 18.
- Palmolive Company, The, Milwaukee, Wis. "Olive Oil Makes Glossy Hair." (For Advertising Purposes for Shampoo.) No. 5,816; Oct. 25.
- Palmolive Company, The, Milwaukee, Wis. "The Secret of Charm Never Changes." (For Advertising Purposes for Palmolive Soap.) No. 5,817; Oct. 25.
- Palmolive Company, The, Milwaukee, Wis. "The Girl Women Envy and Men Admire." (For Advertising Purposes for Palmolive Soap.) No. 5,818; Oct. 25.
- Palmolive Company, The, Milwaukee, Wis. "The Picture He Carried Away." (For Advertising Purposes for Palmolive Soap.) No. 5,875; Dec. 13.
- Palmolive Company, The, Milwaukee, Wis. "Rivals in Beauty." (For Advertising Purposes for Palmolive Soap.) No. 5,903; Dec. 27.
- Pangborn Corporation, Hagerstown, Md. "All-Ways and Always." (For Advertising Purposes for Sand-Blast and Allied Equipment.) No. 5,904; Dec. 27.
- Pangborn, Frank C., Grand Rapids, Mich. "What is Your Brain Worth?" (For Advertising Purposes for Account-Machines.) No. 5,650; June 21; v. 287; p. 592.
- Papercan Corporation, The, Yonkers, N. Y. "Take home some ice cream in a Papercan." (For Advertising Purposes for Papercans.) No. 5,793; Oct. 18.
- Papercan Corporation, The, Yonkers, N. Y. "Ice Cream easy to carry home in a Papercan." (For Advertising Purposes for Papercans.) No. 5,794; Oct. 18.
- Papercan Corporation, The, Yonkers, N. Y. "Easy to keep fresh, easy to carry home in a Papercan." (For Advertising Purposes for Papercans.) No. 5,795; Oct. 18.



- Partola Mfg. Co., New York, N. Y. "The Doctor in Candy Form." (For Advertising Purposes for Mint Laxatives.) No. 5,721; Aug. 30; v. 289; p. 1021.
- Partola Mfg. Co., New York, N. Y. "As Delicious as Bonbons." (For Advertising Purposes for Mint Laxatives.) No. 5,722; Aug. 30; v. 289; p. 1021.
- Peck, A. E., Manufacturing Co., Minneapolis, Minn. "Dr. Peck's Py-Zo-Sis Tooth Brush." (For Advertising Purposes for Toothbrushes.) No. 5,766; Sept. 13; v. 290; p. 432.
- Peerless Ice Cream Co., Sacramento, Calif. "Its Flavor Means Pleasure, Its Purity Means Health." (For Advertising Purposes for Ice-Cream.) No. 5,871; Dec. 13.
- Penn, A. C., Inc., New York, N. Y., assignor to The Greist Manufacturing Company. "Penn Double Bevel Blade." (For Advertising Purposes for Safety-Razor Blades.) No. 5,764; Sept. 13; v. 290; p. 432.
- Philippe, Louis, New York, N. Y. "Angelus Cleansing Cream." (For Advertising Purposes for a Cleansing Cream.) No. 5,562; Mar. 22; v. 284; p. 755.
- Pick, Albert & Co., Chicago, Ill. "Pinks the Distinctive Straw." (For Advertising Purposes for Drinking Straws.) No. 5,744; Sept. 6; v. 290; p. 226.
- Pinkham, Lydia E., Medicine Co., Lynn, Mass. "Lydia E. Pinkham's Vegetable Compound." (For Advertising Purposes for a Vegetable Compound Used for Medicinal Purposes.) No. 5,707; Aug. 23; v. 289; p. 798.
- Polk, J. T., Company, Chicago, Ill. "Polk's." (For Advertising Purposes for Juice of Grapefruit.) No. 5,586; Mar. 29; v. 284; p. 957.
- Powers, James P. *et al.*, trustees. (See Powers, James P., assignor.)
- Powers, James P., Buffalo, N. Y., assignor to J. P. Powers, J. M. Carberry, and M. A. Powers, Buffalo, N. Y., as trustees for All Motor Gasolines. "Amoreco" is King of All Motor Gasolines." (For Advertising Purposes for Gasolene.) Nos. 5,872-3; Dec. 13.
- Powers, Mary A., *et al.*, trustees. (See Powers, James P., assignor.)
- Postum Cereal Co., Inc., Battle Creek, Mich. "Order Post Toasties To-Day." (For Advertising Purposes for Cereal Foods—Corn Flakes.) No. 5,690; Aug. 9; v. 289; p. 409.
- Postum Cereal Co., Inc., Battle Creek, Mich. "Grape-Nuts—Food for Sturdy Health." (For Advertising Purposes for Foods—Grape-Nuts.) No. 5,708; Aug. 23; v. 289; p. 798.
- Postum Cereal Co., Inc., Battle Creek, Mich. "Post Toasties." (For Advertising Purposes for Cereal Foods—Corn Flakes.) No. 5,723; Aug. 30; v. 289; p. 1021.
- Real Silk Hosiery Mills, Indianapolis, Ind. "Authorized Color Card Showing Season's Latest Shades." (For Advertising Purposes for Hosiery.) No. 5,796; Oct. 18.
- Real Silk Hosiery Mills, Indianapolis, Ind. "Exclusive Features of Real Silk Fashioned Hosiery." (For Advertising Purposes for Hosiery.) No. 5,797; Oct. 18.
- Remington Arms UMC Co., New York, N. Y. "Remington UMC for Shooting Right." (For Advertising Purposes for Remington UMC Shot-Shells and Shot-Guns.) No. 5,798; Oct. 18.
- Remington Typewriter Co., Inc., New York, N. Y. "Remington." (For Advertising Purposes for Typewriters.) No. 5,874; Dec. 13.
- Reo Motor Car Co., Lansing, Mich. "Speed Wagon." (For Advertising Purposes for Motor-Trucks.) No. 5,765; Sept. 13; v. 290; p. 432.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Prince Albert passes out such joy's smoke sport you're keen to run up your jimmy pipe colors." (For Smoking-Tobacco.) No. 5,492; Feb. 1; v. 283; p. 180.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You ought to know what P. A. and a jimmy pipe can do for you." (For Smoking-Tobacco.) No. 5,493; Feb. 1; v. 283; p. 180.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "It's P. A. that makes it such top sport to pal it with a jimmy pipe!" (For Smoking-Tobacco.) No. 5,506; Feb. 8; v. 283; p. 362.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You can take this smoketalk at just 100%!" (For Smoking-Tobacco.) No. 5,507; Feb. 8; v. 283; p. 362.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "P. A. puts spring frolics into your old jimmy pipe!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,545; Mar. 15; v. 284; p. 588.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Man, Oh Man!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,563; Mar. 22; v. 284; p. 755.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Make it quick and snappy!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,564; Mar. 22; v. 284; p. 755.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "P. A. packed in a joy's jimmy pipe listens like this." (For Advertising Purposes for Smoking-Tobacco.) No. 5,565; Mar. 22; v. 284; p. 755.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Isn't any Game that can trim P. A. and a pet pipe!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,566; Mar. 22; v. 284; p. 755.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "It's just one smoke after another—when you're jimmy-pipe-ing it with P. A.!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,567; Mar. 22; v. 284; p. 755.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You Certainly Put Joy in Your Language When You Call for Prince Albert." (For Advertising Purposes for Smoking-Tobacco.) No. 5,629; June 14; v. 287; p. 404.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "The Big Gift for the Big Day." (For Advertising Purposes for Smoking Tobacco.) No. 5,630; June 14; v. 287; p. 404.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Slip St. Nick the P. A. Wink." (For Advertising Purposes for Smoking Tobacco.) No. 5,631; June 14; v. 287; p. 404.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Talk About Turning Over a New Leaf." (For Advertising Purposes for Smoking Tobacco.) No. 5,632; June 14; v. 287; p. 404.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Go on and get a pipe and some P. A.!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,745; Sept. 6; v. 290; p. 226.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "P. A. in a pipe? Say, now, you're setting real words to real music." (For Advertising Purposes for Smoking-Tobacco.) No. 5,746; Sept. 6; v. 290; p. 226.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "It's Prince Albert's quality that rings so true to your taste!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,747; Sept. 6; v. 290; p. 226.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Get yours, too! Put it up to a pipe—and P. A." (For Advertising Purposes for Smoking-Tobacco.) No. 5,748; Sept. 6; v. 290; p. 226.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Gee!—How good a pipe tastes with P. A. for the packing!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,749; Sept. 6; v. 290; p. 226.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You bet you'll enjoy a jimmy pipe—if it's packed with Prince Albert!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,750; Sept. 6; v. 290; p. 226.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Yes, Sir, You'll Say a Pipe Packed with P. A. Has 'Em All Backed Clear Off the Map!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,893; Dec. 20.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "And Say—When That P. A. Flavor Gets to Purring to Your Smoke-Appetite." (For Advertising Purposes for Smoking-Tobacco.) No. 5,894; Dec. 20.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Get a Pipe! Get Some P. A.!—and Get Yours!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,895; Dec. 20.
- Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "First Thing You Do Next—" (For Advertising Purposes for Smoking-Tobacco.) No. 5,896; Dec. 20.
- Rice, Jerome B., Seed Co., Cambridge, N. Y. "Extra Early Osage Muskmelon." (For Advertising Purposes for Muskmelon.) No. 5,819; Oct. 25.
- Rinehart, James W., Columbus, Ohio. "Dough Boy." (For Advertising Purposes for Bread.) No. 5,709; Aug. 23; v. 289; p. 798.
- Robel and Bryant, Inc., Chicago, Ill. "Ridewell Tires." (For Advertising Purposes for Automobile-Tires.) No. 5,601; May 24; v. 286; p. 861.
- Robertson & Sons Shoe Repairers, Inc., New York, N. Y. "Old Rubbers Made New." (For Advertising Purposes for Repair-Patches for Rubber Footwear.) No. 5,672; July 5; v. 288; p. 203.
- Rooney, Daniel, Muncie, Ind. "When Peace was Born." (For Advertising Purposes for a Clock.) No. 5,540; Mar. 8; v. 284; p. 378.
- Rosenblatt, A., Sons & Co., Philadelphia, Pa. "Miss Quality." (For Advertising Purposes for Children's Dresses.) No. 5,820; Oct. 25.
- Rosevear, William B., Jr., Detroit, Mich. "Crop Test." (For Advertising Purposes for Flower and Vegetable Seeds, Shrubs, Plants, and Trees.) No. 5,673; July 5; v. 288; p. 203.
- Rubber & Celluloid Products Company, Newark, N. J. "Rubberset Paint Brushes They Leave No Bristles On The Job." (For Advertising Purposes for Paintbrushes.) No. 5,728; Aug. 30; v. 289; p. 1021.
- Sachs-Lawlor Machine and Manufacturing Company, The, Denver, Colo. "Sachs-Lawlor Co., Inc." (For Advertising Purposes for Rubber Stamps, Seals, and Keys.) No. 5,521; Mar. 1; v. 284; p. 180.
- St. Albans Grain Company, St. Albans, Vt. "To Make Hens Weigh, Lay and Pay Use Wirthmore Poultry Feeds." (For Poultry Feeds.) No. 5,448; Jan. 18; v. 282; p. 564.
- Schieren, Chas. A., Company, New York, N. Y. "Duxbak Steamproof Nutan." (For Advertising Purposes for an Article of Manufacture—viz., Leather Belting.) No. 5,767; Sept. 13; v. 290; p. 432.



## Alphabetical list of registrants of prints—Continued.

- Schrader's, A., Son, Incorporated, Brooklyn, N. Y. "Schrader Universal Tire-Pressure-Gauge Schrader Universal Inflating Valve." (For Advertising Purposes for Tire Pressure-Gages, and Inflating-Valves.) No. 5,840; Nov. 22.
- Schrader's, A., Son, Incorporated, Brooklyn, N. Y. "Schrader-Universal Valve Caps." (For Advertising Purposes for Valve-Caps.) No. 5,875; Dec. 13.
- Schrader's, A., Son, Incorporated, Brooklyn, N. Y. "Willful Destruction." (For Advertising Purposes for Tire-Pressure Gages.) No. 5,876; Dec. 13.
- Schrader's, A., Son, Incorporated, New York, N. Y. "Don't Let Your Tires Go This Way." (For Advertising Purposes for Tire-Pressure Gages.) No. 5,897; Dec. 20.
- Scott Paper Company, Chester, Pa. "Thirsty Fibre." (For Advertising Purposes for Paper Towels and Paper Napkins.) No. 5,898; Dec. 20.
- Scott-Powell Dairies, Inc., Philadelphia, Pa. "Fresher By a Day." (For Advertising Purposes for Milk.) No. 5,899; Dec. 20.
- Selway Steel Post & Fence Co., Des Moines, Iowa. "Father Time." (For Steel Fenceposts.) No. 5,494; Feb. 1; v. 283; p. 180.
- Silberman, Louis, Philadelphia, Pa., and New York, N. Y. "Paramount." (For Oak Sole-Leather.) No. 5,447; Jan. 18; v. 282; p. 564.
- Sinclair Refining Company, Chicago, Ill. "Sinclair Motor Oil in One Quart Cans." (For Advertising Purposes for Sinclair Oils.) No. 5,841; Nov. 22.
- Sinclair Refining Company, Chicago, Ill. "Be Fair to Your Car!" (For Advertising Purposes for Sinclair Oils.) No. 5,842; Nov. 22.
- Southern Spring Bed Co., Atlanta, Ga. "Announcing an Educational Sale of Land O' Cotton Mattress." (For Advertising Purposes for Land O' Cotton Sanitary Layer Cotton Mattress.) No. 5,541; Mar. 8; v. 284; p. 378.
- Spitz, Fannie S., Albuquerque, N. Mex. "New Mexico Shelled Pison Nuts." (For Advertising Purposes for Pison Nuts.) No. 5,653; June 21; v. 287; p. 592.
- Sprague Tire and Rubber Company, Omaha, Nebr. "Sprague Tires Cost You Less Per Mile." (For Pneumatic Tires.) No. 5,508; Feb. 8; v. 283; p. 362.
- Standard Tire Co., The, Willoughby, Ohio. "Tiger-Foot Tires." (For Advertising Purposes for Tires.) No. 5,710; Aug. 23; v. 289; p. 798.
- Star Beverage Company, Belleville, Ill. "Wink." (For Ginger-Flavored Beverages.) No. 5,478; Jan. 25; v. 282; p. 740.
- Star Beverage Company, Belleville, Ill. "Wink." (For Advertising Purposes for Ginger-Flavored Beverages.) No. 5,691; Aug. 9; v. 289; p. 409.
- Steger & Sons Piano Manufacturing Company, Steger, Ill. "The Finest Reproducing Phonograph in the World." (For Advertising Purposes for Phonographs.) No. 5,651; June 21; v. 287; p. 592.
- Steger & Sons Piano Manufacturing Company, Steger, Ill. "The Most Valuable Piano in the World." (For Advertising Purposes for Pianos.) No. 5,652; June 21; v. 287; p. 592.
- Stephens, A. B., Chicago, Ill. "Star Tailors." (For Advertising Purposes for Men's Tailored Suits.) No. 5,602; May 24; v. 286; p. 861.
- Stern, Paul J., Milwaukee, Wis. "The Richest Milk." (For Bread.) No. 5,449; Jan. 18; v. 282; p. 564.
- Stern, Paul J., Milwaukee, Wis. "In Nature's Gushing Spring." (For Bread.) No. 5,450; Jan. 18; v. 282; p. 564.
- Stern, Paul J., Milwaukee, Wis. "The Finest Flour." (For Bread.) No. 5,451; Jan. 18; v. 282; p. 564.
- Stern, Paul J., Milwaukee, Wis. "At Home." (For Bread.) No. 5,452; Jan. 18; v. 282; p. 564.
- Stern, Paul J., Milwaukee, Wis. "Quality Reigns Supreme." (For Bread.) No. 5,453; Jan. 18; v. 282; p. 564.
- Stern, Paul J., Milwaukee, Wis. "Enjoyment." (For Bread.) No. 5,454; Jan. 18; v. 282; p. 564.
- Stern, Paul J., Milwaukee, Wis. "Modern Ovens." (For Bread.) No. 5,455; Jan. 18; v. 282; p. 564.
- Stern, Paul J., Milwaukee, Wis. "Sealed Wax Wrappers." (For Bread.) No. 5,456; Jan. 18; v. 282; p. 564.
- Stern, Paul J., Milwaukee, Wis. "Even the Finest Salt." (For Bread.) No. 5,457; Jan. 18; v. 282; p. 564.
- Stern, Paul J., Milwaukee, Wis. "Perfect Cleanliness." (For Bread.) No. 5,458; Jan. 18; v. 282; p. 564.
- Stern, Paul J., Milwaukee, Wis. "Grandmother Knew." (For Bread.) No. 5,459; Jan. 18; v. 282; p. 564.
- Stern, Paul J., Milwaukee, Wis. "A Food as Pure." (For Bread.) No. 5,460; Jan. 18; v. 282; p. 564.
- Stibbs, H. G., Seattle, Wash. "May Echo Sylvia Breeding." (For Advertising Purposes for Holstein Friesian Cattle of May Echo Sylvia Breeding.) No. 5,587; Mar. 29; v. 284; p. 957.
- Swift & Company, Chicago, Ill. "A Delightful Summer Specialty." (For Advertising Purposes for Frankfurt-Style Sausage.) No. 5,799; Oct. 18.
- Syracuse Rubber Co., Inc., Syracuse, N. Y. "Built by Cord Tire Specialists." (For Cord Tires for Motor-Vehicles.) No. 5,509; Feb. 8; v. 283; p. 362.
- Tetlow, Henry Co., Philadelphia, Pa. "Tetlow's Pussywillow Powder." (For Advertising Purposes for Tetlow's Pussywillow Face-Powder.) No. 5,800; Oct. 18.
- Thomson, John H., Omaha, Nebr. "Nesmoht Obstetrical Table." (For Advertising Purposes for Obstetrical Tables.) No. 5,830; Nov. 8.
- Tonks, Thomas, Newark, N. J. "Safety Snap Fastener." (For Snap-Fasteners.) No. 5,461; Jan. 18; v. 282; p. 564.
- Traug Label & Lithograph Co., San Francisco, Calif. "Olympic." (For Feed, Flour, Cereals.) No. 5,495; Feb. 1; v. 283; p. 180.
- Umbrella Manufacturers Association of America, New York, N. Y. "Everybody Needs One." (For Advertising Purposes for Umbrellas.) No. 5,692; Aug. 9; v. 289; p. 409.
- United Fuel & Supply Company, Detroit, Mich. "Hotter Than Sunshine." (For Advertising Purposes for Coal.) No. 5,711; Aug. 23; v. 289; p. 798.
- United Fuel & Supply Company, Detroit, Mich. "United Fuel & Supply Co. Building Supplies." (For Advertising Purposes for Building Supplies.) No. 5,725; Aug. 30; v. 289; p. 1021.
- United Fuel & Supply Company, Detroit, Mich. "United Fuel & Supply Co. Building Supplies by Truck Train or Boat." (For Advertising Purposes for Building Supplies.) No. 5,821; Oct. 25.
- Urie, William A., Los Angeles, Calif. "Acme Dial Planchette No. 1." (For Advertising Purposes for Planchettes.) No. 5,674; July 5; v. 288; p. 203.
- V. G. Baking Company, Allentown, Pa. "V. G. Baking Co. Pretzels, Cones." (For Advertising Purposes for Pretzels and Cones.) No. 5,843; Nov. 22.
- Vaycide Chemical Corp., Birmingham, Ala. "Stop Little Chicks from Dying." (For Advertising Purposes for Ru-Chol, a Poultry Medicine for the Treatment of White Diarrhoea, Cholera, Roup, Canker, Colds, and Limberneck.) No. 5,822; Oct. 25.
- Velco Manufacturing Company, Inc., The, Greenfield, Mass. "How Shall I Cut That Keyway?" (For Advertising Purposes for Keyway Sets and Machines for Use in Connection with Same.) No. 5,726; Aug. 30; v. 289; p. 1021.
- Vernor, James Company, Detroit, Mich. "Say:—Vernor's—A Case!" (For Advertising Purposes for Ginger-Ale and Ginger-Ale Extract.) No. 5,811; Oct. 25.
- Vic Manufacturing Co., New York, N. Y. "Vic—The Master Blade. Try It In Your Razor." (For Advertising Purposes for Safety-Razor Blades.) No. 5,603; May 24; v. 286; p. 861.
- Vick Chemical Co., The, Greensboro, N. C. "Vick's Vaporub Over 17 Million Jars Used Yearly." (For Advertising Purposes for Salve.) No. 5,727; Aug. 30; v. 289; p. 1021.
- Vick Chemical Co., The, Greensboro, N. C. "For Deep Chest Colds Use Vicks Vaporub It Penetrates and Vaporizes." (For Advertising Purposes for Salve.) No. 5,728; Aug. 30; v. 289; p. 1021.
- Vick Chemical Co., The, Greensboro, N. C. "For Kiddies Cold Troubles Vicks Vaporub You Just Rub It On." (For Advertising Purposes for Salve.) No. 5,729; Aug. 30; v. 289; p. 1021.
- Ward Baking Company, New York, N. Y. "Something from Ward Baking Co. of Special Interest." (For Advertising Purposes for Bread.) No. 5,588; Mar. 29; v. 284; p. 957.
- Watkins, J. R., Company, The, Winona, Minn. "Watkins Spark Plug." (For a Spark-Plug.) No. 5,479; Jan. 25; v. 282; p. 740.
- Watkins, R. L., Co., Cleveland, Ohio. "Watkins Mulsified." (For Coconut-Oil Shampoo.) No. 5,480; Jan. 25; v. 282; p. 740.
- Watkins, R. L., Company, The, Cleveland, Ohio. "Makes Your Hair Look Its Best." (For Advertising Purposes for Mulsified-Coconut-Oil Shampoo.) No. 5,568; Mar. 22; v. 284; p. 755.
- Watkins, R. L., Company, The, Cleveland, Ohio. "Watkins Mulsified Coconut Oil Shampoo." (For Advertising Purposes for Hair-Shampoo.) No. 5,569; Mar. 22; v. 284; p. 755.
- Weiss & Klau Company, The, New York, N. Y. "Unexcelled Window Shades." (For Advertising Purposes for Window-Shades.) No. 5,823; Oct. 25.
- Weitzel Lumber Company, Philadelphia, Pa. "Weitzel's Quality Lumber 1 to 1,000,000 Feet Delivered Quick Absolutely as we promise you." (For Lumber.) No. 5,481; Jan. 25; v. 282; p. 740.
- Welsbach Co., Gloucester, N. J. "Welsbach Gas Heater." (For Advertising Purposes for Gas-Heaters.) No. 5,801; Oct. 18.
- Welters, Edward A., Jacksonville, Fla. "Note My Gold Tooth." (For Tooth-Powder.) No. 5,482; Jan. 25; v. 282; p. 740.
- Western Grocery Co., Marshalltown, Iowa. "Chocolate Cream." (For Coffee.) No. 5,618; May 31; v. 286; p. 1058.
- Westinghouse Union Battery Company, Swissvale, Pa. "Battery Service." (For Advertising Purposes for Secondary Batteries.) No. 5,679; July 12; v. 288; p. 430.
- Westinghouse Union Battery Company, Swissvale, Pa. "Westinghouse Batteries." (For Advertising Purposes for Secondary Batteries.) No. 5,680; June 12; v. 288; p. 430.



*Alphabetical list of registrants of prints—Continued.*

Wetzel, Inc., New York, N. Y. "Riding Sacque Suit." (For Advertising Purposes for Clothing—Namely, Riding-Suits for Men.) No. 5,522; Mar. 1; v. 284; p. 180.

Wetzel, Inc., New York, N. Y. "Evening Suit." (For Advertising Purposes for Clothing—Namely, Evening-Suits for Men.) No. 5,523; Mar. 1; v. 284; p. 180.

Wetzel, Inc., New York, N. Y. "S. B. Cutaway Suit." (For Advertising Purposes for Clothing—Namely, Cutaway Suits for Men.) No. 5,524; Mar. 1; v. 284; p. 180.

Wetzel, Inc., New York, N. Y. "Hunting Frock Suit." (For Advertising Purposes for Clothing—Namely, Hunting-Suits for Men.) No. 5,525; Mar. 1; v. 284; p. 180.

Wilbur, H. O., & Sons, Philadelphia, Pa. "The Master of the House Demands It!" (For Cocoa.) No. 5,510; Feb. 8; v. 283; p. 362.

Williams, J. B., Company, The, Glastonbury, Conn. "Jabon de Afeitar de Williams." (For Advertising Purposes for Soap—Stick, Powder, Paste, Cream, and Liquid.) No. 5,712; Aug. 23; v. 289; p. 798.

Williams, J. D., Cupertino, Calif. "A Rare Prune 'Cupertino Brand.'" (For Advertising Purposes for Prunes.) No. 5,900; Dec. 20.

Withrow, Floyd G., Grand Rapids, Mich. "Handy Grease Retainers." (For Advertising Purposes for Grease-Retainers.) No. 5,844; Nov. 22.

Wocher, Max, & Son Co., The, Cincinnati, Ohio. "Good-year's Tonsil Instrument." (For Advertising Purposes for Removal of Tonsils.) No. 5,877; Dec. 13.

Young, Chas. W., & Co., Philadelphia, Pa. "The Modern Soap for Modern Methods." (For Soap Chips or Soap Flakes.) No. 5,462; Jan. 18; v. 282; p. 564.

## DISCLAIMERS.

Alberti, John, New York, N. Y.; disclaimer filed by assignee, International Cork Company. Closure for receptacles. No. 1,234,711; disclaimer filed Mar. 9, 1921; v. 284; p. 760.

Burchenal, John J., Cincinnati, Ohio; disclaimer filed by assignee, The Procter and Gamble Company. Food product. No. 1,135,351; disclaimer filed Jan. 29, 1921; v. 283; p. 555.

Cernohouz, James, Chicago, Ill.; disclaimer filed by assignee, Burke & James Inc. Photographic-film camera. No. 1,293,033; disclaimer filed June 6, 1921; v. 287; p. 1.

Coleman, Clyde J., New York, N. Y.; disclaimer filed by John O. Bigelow, receiver of The Asbestos Brake Co. assignee. Brake-facing. No. 993,031; disclaimer filed Nov. 5, 1921.

Edwards, Henry J., Elyria, Ohio; disclaimer filed by assignee, The Willlys-Overland Company. Universal joint. No. 1,316,563; disclaimer filed Feb. 16, 1921; v. 284; p. 1.

Gookin, Sylvester Leo, Boston, Mass.; disclaimer filed by assignee, United Shoe Machinery Corporation. Fastener-setting machine. No. 1,371,364; disclaimer filed Aug. 20, 1921; vol. 289; p. 801.

Gookin, Sylvester Leo, Boston, Mass.; disclaimer filed by the assignee, United Shoe Machinery Corporation. Fastener-setting machine. No. 1,371,364; disclaimer filed Nov. 21, 1921.

Johnstone, Robert McC., Roselle Park, N. J.; disclaimer filed by assignee, Cameron Machine Company. Winding mechanism. No. 1,355,106; disclaimer filed Apr. 12, 1921; v. 285; p. 575.

Krug, William H., Fond du Lac, Wis.; disclaimer filed by patentee. Means for securing anti-skid chains to vehicle-wheels. No. 1,330,876; disclaimer filed May 16, 1921; v. 286; p. 646.

Lechner, Matthew, New York, N. Y.; disclaimer filed by patentee. Electric storage battery. No. 1,359,259; disclaimer filed July 25, 1921; vol. 289; p. 192.

Martin, Talbot G., Chicago, Ill.; disclaimer filed by patentee. Automatic telephone switching apparatus. (Re-issue.) No. 14,665; disclaimer filed Feb. 28, 1921; v. 284; p. 760.

Martin, Talbot G., Chicago, Ill.; disclaimer filed by patentee, the assignee, Automatic Electric Company, consenting. Telephone-exchange system. No. 1,316,101; disclaimer filed Oct. 31, 1921.

McBean, Peter M., San Francisco, Calif.; disclaimer filed by assignee, Gladding, McBean & Company. Roofing-tile. No. 1,289,492; disclaimer filed Mar. 9, 1921; v. 284; p. 760.

Mellinger, Edward A., Chicago, Ill.; disclaimer filed by patentee. Telephone-exchange automatic switching system. No. 1,343,462; disclaimer filed Mar. 16, 1921; v. 284; p. 760.

Meyers, William A., San Francisco, Calif.; disclaimer filed by assignee, International Earth Boring Machine Corporation. Earth-boring machine. No. 1,315,565; disclaimer filed Jan. 6, 1921; v. 283; p. 555.

Platt, Clarence D., Bridgeport, Conn.; disclaimer filed by assignee, The Trumbull Electric Manufacturing Company. Electric-switch construction. No. 1,260,708; disclaimer filed Apr. 11, 1921; v. 285; p. 575.

Prentiss, William A., Holyoke, Mass.; disclaimer filed by patentee. Spool. No. 1,316,972; disclaimer filed Feb. 9, 1921; v. 283; p. 555.

Willis, Fred V., Oswego, Ill.; disclaimer filed by patentee. Liquid-elevating apparatus. No. 1,345,725; disclaimer filed Apr. 25, 1921; v. 286; p. 1.

Wilson, Campbell L., La Grange, Ill.; disclaimer filed by assignee, Automatic Electric Company. Telephone system. No. 1,267,743; disclaimer filed Apr. 18, 1921; v. 286; p. 1.

Wood, William H., Cleveland, Ohio; disclaimer filed by patentee. Lamp. No. 1,235,275; disclaimer filed Apr. 30, 1921; v. 286; p. 205.



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- Abdominal retractor. H. B. McCrory and W. Pearson. No. 1,400,616; Dec. 20.
- Abdominal support. S. H. Camp. No. 1,380,883; June 7; v. 287; p. 107.
- Abdominal support. F. Z. Husar. No. 1,399,386; Dec. 6.
- Abdominal support and shoulder-brace, Combined. C. Munter. No. 1,367,420; Feb. 1; v. 283; p. 107.
- Abdominal support and shoulder-brace, Combined. C. Munter. No. 1,367,421; Feb. 1; v. 283; p. 107.
- Abdominal supporter. J. L. Holt. No. 1,379,101; May 24; v. 286; p. 701.
- Abdominal supporter. M. E. Wagner. No. 1,370,568; Mar. 8; v. 284; p. 199.
- Abradant-supplying apparatus. W. G. Hastings. No. 1,390,128; Sept. 6; v. 290; p. 115.
- Abrading device. W. E. Laird. No. 1,396,585; Nov. 8.
- Abrading-machine. W. H. Smith. No. 1,390,828; Sept. 13; v. 290; p. 346.
- Abrading or polishing apparatus. C. E. Farrington. No. 1,367,808; Feb. 8; v. 283; p. 240.
- Abrading-tools, Making. C. R. King. No. 1,394,500; Oct. 18.
- Abrasion-testing machine. G. S. Blankenhorn. No. 1,386,087; Aug. 2; v. 289; p. 25.
- Abrasive and refractory article and producing same. A. H. Anderson. No. 1,364,849; Jan. 4; v. 282; p. 154.
- Abrasive composition. J. A. Menard. No. 1,381,728; June 14; v. 287; p. 319.
- Abrasive for grinding and smoothing glass. W. L. Kann. No. 1,387,649; Aug. 16; v. 289; p. 459.
- Abrasive material, Handling. M. A. Ross. No. 1,396,286; Nov. 8.
- Abrasive roller. P. Brauner and E. Metzner. No. 1,374,052; Apr. 5; v. 285; p. 131.
- Absorbent pad. J. C. Baker. No. 1,370,081; Mar. 1; v. 284; p. 62.
- Absorption-tank. T. Wight. No. 1,395,463; Nov. 1.
- Accelerator. J. H. M. Michon. No. 1,383,326; July 5; v. 288; p. 14.
- Accelerator and fuel-regulator, Automatic. G. Horvath. No. 1,394,015; Oct. 18.
- Accelerator, Automatic. J. H. Leitch. (Reissue.) No. 1,517,0; Aug. 2; v. 289; p. 122.
- Accelerator connection. H. Corfield. No. 1,373,600; Apr. 5; v. 285; p. 43.
- Accordion. P. Bartoll. No. 1,382,885; June 28; v. 287; p. 651.
- Accordion. K. A. Jakobsson. No. 1,375,156; Apr. 19; v. 285; p. 447.
- Accordions, Shutter for. S. Rabuazzo. No. 1,377,093; May 3; v. 286; p. 136.
- Account-ledger. S. B. Kirtley. No. 1,399,776; Dec. 13.
- Account-register. S. N. Wheeler. No. 1,383,890; July 5; v. 288; p. 121.
- Accounting-machine with auxiliary printing appliance. A. H. Hawley. No. 1,396,932; Nov. 15.
- Accounting-machines, Attachment for. S. H. McCracken. No. 1,382,999; June 28; v. 287; p. 673.
- Accounting-machines, Total-taking means for. W. A. Lasker. No. 1,376,555; May 3; v. 286; p. 33.
- Accounting system, Means employed in. F. Geits, Jr. No. 1,392,930; Oct. 11.
- Accretions, Removing. S. R. Garr and R. F. Barker. No. 1,389,751; Sept. 6; v. 290; p. 38.
- Accumulator, Electric. G. Marconi. No. 1,377,722; May 10; v. 286; p. 312.
- Acetaldehyde, Manufacturing. H. W. Matheson. No. 1,384,842; July 19; v. 288; p. 459.
- Acetic and butyric acids, The utilization of marine algae for the manufacture of. L. Dupont. No. 1,371,611; Mar. 15; v. 284; p. 464.
- Acetic anhydrid, Making. H. Dreyfus. No. 1,368,789; Feb. 15; v. 283; p. 478.
- Acetone, Manufacture of. E. Ricard. No. 1,385,888; July 26; v. 288; p. 749.
- Acetylation of hydrocarbons and subsequent recovery of the products of the reaction. G. T. Koch and A. L. Stallkamp. No. 1,374,666; Apr. 12; v. 285; p. 290.
- Acetylene-gas and pressure generator. A. F. Habenicht. No. 1,383,464; July 5; v. 288; p. 43.
- Acetylene-generator. J. W. Cain. No. 1,398,673; Nov. 29.
- Acetylene-generator. N. Goodyear. No. 1,373,419; Apr. 5; v. 285; p. 7.
- Acetylene-generator. L. W. Hamilton. No. 1,365,913; Jan. 18; v. 282; p. 445.
- Acetylene-generator. E. Luder. No. 1,377,595; May 10; v. 286; p. 288.
- Acid and compounds of the same, Apparatus for the manufacture of phosphoric. W. H. Waggaman and T. B. Turley. No. 1,387,817; Aug. 16; v. 289; p. 493.
- Acid and extracts, Production of tannic. F. Langford. No. 1,390,796; Sept. 13; v. 290; p. 340.
- Acid and of alkaline valerianates, Manufacture of valerianic. L. Dupont. No. 1,389,187; Aug. 30; v. 289; p. 875.
- Acid aralkyl ester of 2-phenylquinolin-4-carboxylic. A. Gams and O. Kaiser. No. 1,378,343; May 17; v. 286; p. 484.
- Acid by reducing agents, Purification of maleic. G. C. Bailey. No. 1,401,937; Dec. 27.
- Acid colors, Precipitating. A. Lendle. No. 1,378,418; May 17; v. 286; p. 498.
- Acid compound of the digitalisglycosids, Producing tannic. R. Tambach. No. 1,391,705; Sept. 27; v. 290; p. 660.
- Acid esters of tribromotertiary butyl alcohol, Benzoic. T. B. Aldrich. No. 1,397,913; Nov. 22.
- Acid liquor and producing same. C. Ellis. No. 1,365,044; Jan. 11; v. 282; p. 237.
- Acid, Making phosphoric. W. H. Allen. No. 1,368,379; Feb. 15; v. 283; p. 398.
- Acid manufacture. P. W. Webster. No. 1,390,410; Sept. 13; v. 290; p. 262.
- Acid, Manufacture of hydrobromic. E. Theimer. No. 1,379,731; May 31; v. 286; p. 895.
- Acid, Manufacture of picric. D. B. Macdonald. No. 1,396,001; Nov. 1.
- Acid, Manufacture of sulfuric. J. H. Brown. No. 1,365,964; Jan. 18; v. 282; p. 455.
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- Acid-phosphate apparatus. R. E. Forbiss. No. 1,376,612; May 3; v. 286; p. 44.
- Acid phosphate, Apparatus for manufacture of. R. T. Gaston. No. 1,385,126; July 19; v. 288; p. 518.
- Acid phosphate or superphosphate, Apparatus for manufacturing. W. T. Doyle. No. 1,383,911; July 5; v. 288; p. 135.
- Acid phosphate or superphosphate, Manufacturing. W. T. Doyle. No. 1,383,912; July 5; v. 288; p. 135.
- Acid phosphate or superphosphate, Manufacturing. W. T. Doyle. No. 1,401,527; Dec. 27.
- Acid, Preparation of hydriodic. G. B. Frankforter. No. 1,380,951; June 7; v. 287; p. 120.
- Acid, Producing highly-concentrated hydrochloric. J. Fredriksson. No. 1,398,224; Nov. 29.
- Acid, Producing maleic. C. R. Downs. No. 1,374,720; Apr. 12; v. 285; p. 301.
- Acid, Production of benzoic. J. B. Senderens. No. 1,365,956; Jan. 18; v. 282; p. 453.
- Acid, Production of maleic. J. M. Weiss and C. R. Downs. No. 1,377,534; May 10; v. 286; p. 276.
- Acid, Refining oxalic. D. E. Kelen. No. 1,397,127; Nov. 15.
- Acid-resisting article and making same. A. W. Clement. No. 1,375,673; Apr. 26; v. 285; p. 578.
- Acid-resisting iron. P. D. Schenck. No. 1,398,918; Nov. 29.
- Acid sodium pyro phosphate, Manufacture of. A. Kelly. No. 1,383,990; July 5; v. 288; p. 152.
- Acids and glycerids thereof, Treating fatty. H. A. Levy. No. 1,374,589; Apr. 12; v. 285; p. 276.
- Acids and the precipitation of salts contained in waters, Preparation for the neutralization of the. V. G. Lorenzo. No. 1,399,266; Dec. 6.
- Acids, Distillation of fatty. J. W. Bodman. No. 1,372,477; Mar. 22; v. 284; p. 686.
- Acids, Manufacture of naphthalene sulfonic. J. A. Ambler and H. D. Gibbs. No. 1,390,241; Sept. 6; v. 290; p. 136.
- Acids, Producing organic. A. A. Backhaus. Nos. 1,396,008-10; Nov. 8.
- Acoustic device. H. C. Egerton. No. 1,383,700; July 5; v. 288; p. 92.
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- Acoustic diaphragm. W. H. Davis and F. E. Joss. No. 1,389,632; Sept. 6; v. 290; p. 14.
- Action-bracket. A. G. Gulbransen. No. 1,385,076; July 19; v. 288; p. 507.
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- Adhesive composition. A. La Flamme. No. 1,380,568; June 7; v. 287; p. 46.
- Adhesives, Manufacture of. J. D. Malcolmson. No. 1,379,639; May 31; v. 286; p. 878.
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- Adjuster. T. Penwell and H. E. Brown. No. 1,367,426; Feb. 1; v. 283; p. 108.
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- Advertisement device. C. H. Greig. No. 1,374,501; Apr. 12; v. 285; p. 258.
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- Advertising appliance. T. F. O'Reilly. No. 1,370,908; Mar. 8; v. 284; p. 264.
- Advertising device. J. M. Bardera. No. 1,394,881; Oct. 25.
- Advertising device. R. T. Bell. No. 1,379,329; May 24; v. 286; p. 745.
- Advertising device. C. D. Bowers. No. 1,366,866; Jan. 25; v. 282; p. 676.
- Advertising device. J. H. Byrne. No. 1,373,299; Mar. 29; v. 284; p. 890.
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- Advertising device. J. Hull. No. 1,385,211; July 19; v. 288; p. 535.
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- Advertising device. A. Rasmussen, Sr., and A. Rasmussen, Jr. No. 1,375,261; Apr. 19; v. 285; p. 467.
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- Advertising device. J. H. Solberg. No. 1,369,307; Feb. 22; v. 283; p. 616.
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- Aero-inclinometer. H. J. Earle. No. 1,365,233; Jan. 11; v. 282; p. 273.
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- Aeroplane. C. C. Medberg. No. 1,393,150; Oct. 11.
- Aeroplane. C. F. Nayer. No. 1,382,847; June 28; v. 287; p. 644.
- Aeroplane. G. C. Offen. No. 1,382,535; June 21; v. 287; p. 530.
- Aeroplane. V. Olhovsky. No. 1,365,339; Jan. 11; v. 282; p. 293.
- Aeroplane. G. Ortgiere. No. 1,396,459; Nov. 8.
- Aeroplane. W. F. Osborne. No. 1,368,967; Feb. 15; v. 283; p. 511.
- Aeroplane. W. F. Osborne. No. 1,387,899; Aug. 16; v. 289; p. 508.
- Aeroplane. G. Ostiger. No. 1,397,292; Nov. 15.
- Aeroplane. N. G. Pappas. No. 1,395,204; Oct. 25.
- Aeroplane. J. E. Pearson. No. 1,378,895; May 24; v. 286; p. 663.
- Aeroplane. J. W. A. Pepin. No. 1,382,314; June 21; v. 287; p. 488.
- Aeroplane. J. H. Rea. No. 1,398,466; Nov. 29.
- Aeroplane. C. F. Redman. No. 1,372,723; Mar. 29; v. 284; p. 774.
- Aeroplane. P. J. Reuser. No. 1,389,163; Aug. 30; v. 289; p. 870.
- Aeroplane. G. H. Robinson. No. 1,366,025; Jan. 18; v. 282; p. 466.
- Aeroplane. H. E. Rose. No. 1,371,815; Mar. 15; v. 284; p. 503.
- Aeroplane. H. Schröder. No. 1,382,861; June 28; v. 287; p. 647.
- Aeroplane. J. P. Sellmer. No. 1,376,785; May 3; v. 286; p. 76.
- Aeroplane. J. A. Smith. No. 1,397,062; Nov. 15.
- Aeroplane. G. A. Spratt. No. 1,394,585; Oct. 25.
- Aeroplane. J. H. Stewart. No. 1,398,750; Nov. 29.
- Aeroplane. F. D. Stoner. No. 1,365,562; Jan. 11; v. 282; p. 336.
- Aeroplane. W. Tilson. No. 1,400,582; Dec. 20.
- Aeroplane. A. L. Turner. No. 1,388,620; Aug. 23; v. 289; p. 707.
- Aeroplane. I. M. Uppercu. No. 1,367,218; Feb. 1; v. 283; p. 67.
- Aeroplane. G. Welikl. No. 1,395,068; Oct. 25.
- Aeroplane. B. B. Wood. No. 1,399,913; Dec. 13.
- Aeroplane. J. Ziegler. No. 1,376,305; Apr. 26; v. 285; p. 699.
- Aeroplane. J. Ziegler. No. 1,376,306; Apr. 26; v. 285; p. 699.
- Aeroplane. B. Zsarnay. No. 1,397,196; Nov. 15.
- Aeroplane. J. Zuruk-Zurinsky. No. 1,381,611; June 14; v. 287; p. 296.
- Aeroplane attachment. H. A. Robinson. No. 1,365,275; Jan. 11; v. 282; p. 281.
- Aeroplane attachment. G. C. Stevens. No. 1,396,894; Nov. 15.
- Aeroplane bomb-sight. G. E. Beggs. No. 1,383,969; July 5; v. 288; p. 147.
- Aeroplane construction. C. F. Willard. No. 1,394,460; Oct. 18.
- Aeroplane construction, Dope or varnish used in. S. E. Groves and T. W. H. Ward. No. 1,400,430; Dec. 13.
- Aeroplane control. P. G. Zimmermann. No. 1,375,199; Apr. 19; v. 285; p. 455.
- Aeroplane-control system. A. Black. No. 1,395,254; Nov. 1.
- Aeroplane, Device for fixing an engine in an. P. J. R. Postel-Vinay. No. 1,392,655; Oct. 4.
- Aeroplane driving mechanism. P. Adler. No. 1,389,471; Aug. 30; v. 289; p. 931.
- Aeroplane-engine-starting apparatus. R. Harris. No. 1,400,745; Dec. 20.
- Aeroplane-engines, Apparatus for regulating the effective surface of the radiators of. J. J. M. A. E. Schneider. No. 1,374,610; Apr. 12; v. 285; p. 280.
- Aeroplane fabric. C. P. Schlegel. No. 1,384,099; July 12; v. 288; p. 224.
- Aeroplane-fitting. E. G. Bahl. No. 1,369,374; Feb. 22; v. 283; p. 630.
- Aeroplane-guy-wire connection. F. Schussler. No. 1,392,529; Oct. 4.
- Aeroplane-kite. L. R. Eddy. No. 1,400,735; Dec. 20.
- Aeroplane landing-wheel. F. Marzak and S. Dusek. No. 1,365,181; Jan. 11; v. 282; p. 262.
- Aeroplane level or position indicator. H. E. Watkins. No. 1,378,744; May 17; v. 286; p. 562.
- Aeroplane-propeller. G. B. Collier. No. 1,393,753; Oct. 18.
- Aeroplane-propeller. E. T. Gove. No. 1,380,057; May 31; v. 286; p. 956.
- Aeroplane-propeller. A. A. Mosher. No. 1,366,016; Jan. 18; v. 282; p. 465.
- Aeroplane-propeller. G. F. Weiher. No. 1,389,609; Sept. 6; v. 290; p. 10.
- Aeroplane-propeller, Twin. P. Petres. No. 1,364,580; Jan. 4; v. 282; p. 103.
- Aeroplane-propellers, Gear box and drive for. G. Hrib. No. 1,377,483; May 10; v. 286; p. 268.
- Aeroplane-propellers, Reproducing-machine for making. J. F. Keller. No. 1,379,267; May 24; v. 286; p. 733.
- Aeroplane propulsion by means of quarter-turn quartered-paddle-wheel propeller assemblies. A. B. Roney. No. 1,365,727; Jan. 18; v. 282; p. 408.
- Aeroplane propulsion means. M. H. Anderson. No. 1,385,695; Nov. 1.
- Aeroplane safety device. J. R. Drumman and T. Mieczeski. No. 1,371,203; Mar. 8; v. 284; p. 320.
- Aeroplane safety device. J. D. Kennard. No. 1,367,483; Feb. 1; v. 283; p. 119.
- Aeroplane shock-absorber. J. T. Hughes. No. 1,378,234; May 17; v. 286; p. 463.
- Aeroplane speed-indicator. A. F. Poole. No. 1,387,555; Aug. 16; v. 289; p. 440.
- Aeroplane-stabilizer. E. A. Sperry. No. 1,368,226; Feb. 8; v. 283; p. 320.
- Aeroplane structure. T. N. Wilson. No. 1,374,700; Apr. 12; v. 285; p. 297.
- Aeroplane-tail. J. M. Krowka. No. 1,365,704; Jan. 18; v. 282; p. 403.
- Aeroplane-wing. W. E. Knoell. No. 1,390,563; Sept. 18; v. 290; p. 293.
- Aeroplane-wing for transportation or storage, Folding or jointing. A. H. G. Fokker. No. 1,388,457; Aug. 23; v. 289; p. 677.
- Aeroplane-wings and the like, Foldable. M. Winckelmann. No. 1,377,538; May 10; v. 286; p. 277.
- Aeroplane-wings, Joint for. A. H. G. Fokker. Nos. 1,396,176-7; Nov. 8.
- Aeroplanes, Adjusting device for. G. Schenkel. No. 1,365,346; Jan. 11; v. 282; p. 294.
- Aeroplanes, Aerofoil for. A. A. Holle. No. 1,379,921; May 31; v. 286; p. 930.
- Aeroplanes, Air-current indicator for. L. B. Sperry. No. 1,384,867; July 19; v. 288; p. 464.
- Aeroplanes and other airships, Life-saving means for. P. L. Jordan. No. 1,383,124; June 28; v. 287; p. 696.
- Aeroplanes, Arming of fighting and other. J. J. M. A. E. Schneider. No. 1,383,242; June 28; v. 287; p. 719.
- Aeroplanes, Bomb for. A. Bettica. No. 1,367,938; Feb. 8; v. 283; p. 264.
- Aeroplanes, Bomb-magazine for. L. S. Clarke. No. 1,368,322; Feb. 15; v. 283; p. 386.
- Aeroplanes, Brake for. C. P. Salgee. No. 1,400,462; Dec. 13.
- Aeroplanes, Control for. W. S. Rabb. No. 1,387,513; Aug. 16; v. 289; p. 431.
- Aeroplanes, Fire-extinguisher for. W. C. Clark. No. 1,383,788; July 5; v. 288; p. 110.
- Aeroplanes from ships, Device for launching. G. Anderson. No. 1,384,036; July 12; v. 288; p. 211.
- Aeroplanes, Ground-speed device for. B. A. Proctor. No. 1,383,660; July 5; v. 288; p. 83.
- Aeroplanes, Inclinator for. N. W. Spencer. No. 1,399,090; Dec. 6.
- Aeroplanes, Landing-gear for. H. M. Kudo. No. 1,387,057; Aug. 9; v. 289; p. 291.



- Aeroplanes, Metal fitting for assembling longitudinals and uprights in. P. J. R. Postel-Vinay. No. 1,390,216; Sept. 6; v. 290; p. 132.
- Aeroplanes, Motor-fuel for. W. T. Schreiber. No. 1,398,947; Nov. 29.
- Aeroplanes, &c., Movable advertising device for. R. K. Bavier. No. 1,365,219; Jan. 11; v. 282; p. 270.
- Aeroplanes, Non-recoil gun for. C. J. Cooke. No. 1,373,381; Mar. 29; v. 284; p. 905.
- Aeroplanes or dirigible aircraft, Device for cooling the motors of. H. R. Guyot. No. 1,386,493; Aug. 2; v. 289; p. 103.
- Aeroplanes, Parachute for use with. F. C. Mears. No. 1,395,723; Nov. 1.
- Aeroplanes, Safety appliance for. J. P. Ball. No. 1,369,158; Feb. 22; v. 283; p. 588.
- Aeroplanes, ships, and the like, Apparatus for actuating by means of auxiliary engines, devices such as the rudders of. J. J. M. A. E. Schneider. No. 1,365,347; Jan. 11; v. 282; p. 294.
- Aeroplanes, Steering and braking device for. J. T. Hughes. No. 1,378,233; May 17; v. 286; p. 463.
- Aeroplanes, Suspension apparatus of the landing-carriages of. J. J. M. A. E. Schneider. No. 1,364,588; Jan. 4; v. 280; p. 104.
- Aeroplanes, Tail-piece for. P. J. R. Postel-Vinay. No. 1,373,759; Apr. 5; v. 285; p. 73.
- Aeroplanes, Transmission for the propeller-shafts of. J. C. Mullins, Jr. No. 1,369,044; Feb. 22; v. 283; p. 566.
- Agar-agar, Making. C. Matsuoaka. No. 1,399,359; Dec. 6.
- Agates and similar stones, Machine for grooving. O. C. Reeves. No. 1,379,044; May 24; v. 286; p. 691.
- Agave and similar fleshy plants, Liberating the fibers of the. R. Quijano. No. 1,368,750; Feb. 15; v. 283; p. 470.
- Agglomerates of various materials and their utilization, Manufacture of. T. Rouse. No. 1,381,748; June 14; v. 287; p. 323.
- Agitating device. W. J. May. No. 1,376,561; May 3; v. 286; p. 34.
- Agitating-machine. C. F. Sherwood. No. 1,381,673; June 14; v. 287; p. 308.
- Agitator. W. A. Butchart. No. 1,395,480; Nov. 1.
- Agitator. M. M. Fredel and W. Bosanko. No. 1,383,921; July 5; v. 288; p. 137.
- Agitator. H. Halstead. No. 1,387,709; Aug. 16; v. 289; p. 471.
- Agitator. C. L. Lewis. No. 1,394,315; Oct. 18.
- Agitator. I. S. Merrell. No. 1,375,406; Apr. 19; v. 285; p. 495.
- Agitator. T. F. Taylor. No. 1,386,809; Aug. 9; v. 289; p. 239.
- Agricultural and other wheeled machines, Quick-steering mechanism for. J. J. Frawley. No. 1,386,562; Aug. 2; v. 289; p. 116.
- Agricultural implement. C. J. Allen. No. 1,389,113; Aug. 30; v. 289; p. 859.
- Agricultural implement. W. E. and W. J. Aton. No. 1,395,329; Nov. 1.
- Agricultural implement. J. M. Bowen. No. 1,373,858; Apr. 5; v. 285; p. 93.
- Agricultural implement. C. H. Gardner, Jr. No. 1,383,294; July 5; v. 288; p. 7.
- Agricultural implement. S. Q. Harper. No. 1,371,992; Mar. 15; v. 284; p. 536.
- Agricultural implement. T. M. Jones. No. 1,400,073; Dec. 13.
- Agricultural implement. J. Mader. No. 1,375,854; Apr. 26; v. 285; p. 612.
- Agricultural implement. J. Mader. No. 1,391,264; Sept. 20; v. 290; p. 498.
- Agricultural implement. C. Owens. No. 1,397,599; Nov. 22.
- Agricultural implement. C. A. Peters. (Reissue.) No. 1,502,9; Jan. 18; v. 282; p. 528.
- Agricultural implement. S. Szucs. No. 1,391,023; Sept. 20; v. 290; p. 448.
- Agricultural implement. G. Tompkins. No. 1,394,651; Oct. 25.
- Agricultural implement. I. T. Ullrich. No. 1,376,236; Apr. 26; v. 285; p. 685.
- Agricultural-implement frame. T. C. Duncan. No. 1,389,296; Aug. 30; v. 289; p. 896.
- Agricultural implement, Motor. W. N. Springer. No. 1,371,330; Mar. 15; v. 284; p. 408.
- Agricultural implement, Self-propelled. H. C. Baines. No. 1,399,040; Dec. 6.
- Agricultural implement, traction-engine, motor-lorry, &c., Motor-driven. J. and C. J. Bamford. No. 1,400,012; Dec. 13.
- Agricultural implements, Mechanism for raising and lowering working devices of. C. A. Bacon. No. 1,400,342; Dec. 13.
- Agricultural implements, Motor propulsion. J. Psikal. No. 1,370,151; Mar. 1; v. 284; p. 75.
- Agricultural implements, Power. G. C. Wooddell and H. C. Reeser. No. 1,389,612; Sept. 6; v. 290; p. 10.
- Agricultural implements, Subsoil-draining attachment to. H. St. J. Walton. No. 1,373,374; Mar. 29; v. 284; p. 904.
- Agricultural implements, Tractor connection for. P. J. O'Connor. No. 1,399,072; Dec. 6.
- Agricultural implements, Truck for. E. E. Towle. No. 1,378,691; May 3; v. 286; p. 40.
- Agricultural implements, Wheel-adjusting mechanism for. L. E. Waterman. No. 1,381,374; June 14; v. 287; p. 252.
- Agricultural machine. R. Bernstein. No. 1,399,045; Dec. 6.
- Agricultural machine. V. H. Nelson. No. 1,370,347; Mar. 1; v. 284; p. 112.
- Agricultural machine. J. G. Northcutt and M. Crawford. No. 1,398,198; Nov. 22.
- Agricultural machine for direct attachment to tractors. C. W. Armantrout. No. 1,401,029; Dec. 20.
- Agricultural machine, Motor. A. T. Brown. No. 1,372,335; Mar. 22; v. 284; p. 659.
- Agricultural machine, Motor. A. T. Brown. No. 1,385,041; July 19; v. 288; p. 499.
- Agricultural machine, Motor. C. S. Brown. No. 1,399,739; Dec. 13.
- Agricultural machine, Motor-driven. O. Frankman. No. 1,381,816; June 14; v. 287; p. 335.
- Agricultural machines, Seat for. H. Stewart. No. 1,270,235; Mar. 1; v. 284; p. 91.
- Agricultural system. G. A. Case. No. 1,391,169; Sept. 20; v. 290; p. 478.
- Aileron, Emergency-. I. G. Foster. No. 1,369,333; Feb. 22; v. 283; p. 622.
- Air and gas, Blower and exhauster for moving. C. M. Conder. No. 1,390,237; Sept. 6; v. 290; p. 135.
- Air and gas, Method of and means for burning. W. H. Geesman and A. G. McKee. No. 1,388,944; Aug. 30; v. 289; p. 826.
- Air and gases electrically, Method of and apparatus for treating. W. T. Hoofnagle. No. 1,388,112; Aug. 16; v. 289; p. 550.
- Air and gases from water, System for removing. R. N. Ehrhart. Nos. 1,401,100-1; Dec. 20.
- Air and gases from water, Systems for removing. R. N. Ehrhart. No. 1,401,116; Dec. 20.
- Air and water heater, Combined. W. M. Keighler. No. 1,384,764; July 19; v. 288; p. 443.
- Air, Apparatus for determining the amount of heat in the. C. H. Prött. No. 1,400,313; Dec. 13.
- Air, Apparatus for storage of compressed. P. H. Quigley. No. 1,376,359; Apr. 26; v. 285; p. 709.
- Air-bag and wrapping same. R. S. Burdette. No. 1,379,598; May 24; v. 286; p. 795.
- Air-brake. H. Pieper. No. 1,376,573; May 3; v. 286; p. 37.
- Air-brake apparatus. J. M. Readey. No. 1,391,404; Sept. 20; v. 290; p. 526.
- Air-brake attachment, Emergency-. J. B. Fountain and J. B. Parker. No. 1,382,900; June 28; v. 287; p. 654.
- Air-brake control. J. S. Rasnick and W. S. Blevins. No. 1,388,483; Aug. 23; v. 289; p. 681.
- Air-brake-controlling apparatus. A. St. John. (Reissue.) No. 1,525,6; Dec. 27.
- Air-brake coupling, Automatic. S. Elmen. No. 1,365,776; Jan. 18; v. 282; p. 418.
- Air-brake device, Safety. F. B. McDaniel. No. 1,379,459; May 24; v. 286; p. 769.
- Air-brake lock. A. W. Paulson. No. 1,389,070; Aug. 30; v. 289; p. 851.
- Air-brake-piston-leather-expanding ring. S. G. Clayback. No. 1,393,664; Oct. 11.
- Air-brake safety appliance. H. C. Stokes. No. 1,385,160; July 19; v. 288; p. 525.
- Air-brake switch. F. Bechoff and M. M. Samuels. No. 1,378,395; May 17; v. 286; p. 494.
- Air-brake system. H. A. Bryan. No. 1,395,221; Oct. 25.
- Air-brake system. D. R. McBain. No. 1,373,365; May 17; v. 286; p. 488.
- Air-brake system, Alarm for. R. L. Flinn. No. 1,387,002; Aug. 9; v. 289; p. 278.
- Air-brake systems, Regulating-valve for. L. J. H. Kruse. No. 1,383,218; June 28; v. 287; p. 715.
- Air-brake systems, Safety attachment for. W. M. Moore. No. 1,398,908; Nov. 29.
- Air-brakes, Graduated-release device for. G. A. Anderson. No. 1,396,392; Nov. 8.
- Air-cleaner. M. B. Morgan. No. 1,367,623; Feb. 8; v. 283; p. 204.
- Air-compressing apparatus. H. J. Appleton. No. 1,398,251; Nov. 29.
- Air-compressing machine. M. Barbetta. No. 1,382,453; June 21; v. 287; p. 516.
- Air-compressor. F. L. Blevins. No. 1,393,742; Oct. 18.
- Air-compressor. M. A. Estes. No. 1,389,039; Aug. 30; v. 289; p. 845.
- Air-compressor. E. A. Golle. No. 1,370,305; Mar. 1; v. 284; p. 104.
- Air-compressor. J. P. Loftus. No. 1,373,339; Mar. 29; v. 284; p. 898.
- Air-compressor. J. Noguera. No. 1,383,657; July 5; v. 288; p. 82.
- Air-compressor. D. M. Putnam and H. M. Dunlap. No. 1,399,151; Dec. 6.
- Air-compressor. C. M. Tursky. No. 1,371,824; Mar. 15; v. 284; p. 504.
- Air-compressor and vacuum-producer, Hydraulic. B. Skidmore, Jr. No. 1,392,854; Oct. 4.
- Air-compressor and vacuum-producer, Hydraulic. B. Skidmore, Jr. No. 1,392,855; Oct. 4.
- Air-compressor and vacuum-producer, Hydraulic. B. Skidmore, Jr. No. 1,392,856; Oct. 4.



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- Air-compressor and vacuum-producer, Hydraulic. B. Skidmore, Jr. No. 1,392,857; Oct. 4.
- Air-compressor, Engine. J. Müller. No. 1,381,133; June 14; v. 287; p. 208.
- Air-compressor, Engine. M. Rotter. No. 1,387,515; Aug. 16; v. 289; p. 432.
- Air-compressor-lubricating device. J. E. Osmer. No. 1,367,560; Feb. 8; v. 283; p. 192.
- Air compressor or pump. S. C. Monberg. No. 1,372,532; Mar. 22; v. 284; p. 696.
- Air-compressor, Rotary. J. O. Carrey. No. 1,379,248; May 24; v. 286; p. 729.
- Air-concentrator. J. Closs. No. 1,377,807; May 10; v. 286; p. 330.
- Air, Condenser and separator for compressed. J. G. McDowell. No. 1,366,403; Jan. 25; v. 282; p. 583.
- Air-conditioning process and apparatus. A. P. Torrey. No. 1,374,689; Apr. 12; v. 285; p. 295.
- Air control, Auxiliary. D. M. White. No. 1,391,032; Sept. 20; v. 290; p. 450.
- Air-cooled engine. A. C. Sinclair. No. 1,366,707; Jan. 25; v. 282; p. 644.
- Air-cooler. W. H. Stone. No. 1,391,592; Sept. 20; v. 290; p. 564.
- Air cooler moistener, and purifier, Portable. B. Macfadden. No. 1,394,924; Oct. 25.
- Air-cooling apparatus. G. L. Hooper. No. 1,369,812; Mar. 1; v. 284; p. 11.
- Air-cooling system. E. H. Armes. No. 1,390,862; Sept. 13; v. 290; p. 353.
- Air-coupling. F. B. de Mund. No. 1,370,790; Mar. 8; v. 284; p. 242.
- Air-coupling, Automatic. E. L. Horton. No. 1,386,338; Aug. 2; v. 289; p. 75.
- Air-cushion, Suspension. G. S. Matthews. No. 1,401,420; Dec. 27.
- Air device, Auxiliary. A. D. Blake. No. 1,364,176; Jan. 4; v. 282; p. 25.
- Air device, Auxiliary. W. C. Dillon. No. 1,392,922; Oct. 11.
- Air, Dispenser for compressed. G. J. Spohrer. No. 1,395,368; Nov. 1.
- Air-draft motor. G. Berry. No. 1,380,036; May 31; v. 283; p. 962.
- Air-drill, Automatic feed for an. E. H. Chapman. No. 1,366,716; Jan. 25; v. 282; p. 646.
- Air-ejector of steam-condensing plants. C. R. Lang. No. 1,372,150; Mar. 22; v. 284; p. 623.
- Air-ejector, Steam-jet. C. R. Lang. No. 1,372,149; Mar. 22; v. 284; p. 622.
- Air, Electric device for treating. E. R. Case. No. 1,378,095; May 17; v. 286; p. 437.
- Air-feeding device. J. Y. King. No. 1,365,697; Jan. 18; v. 282; p. 402.
- Air-feeding device. J. Y. King. No. 1,384,838; July 19; v. 288; p. 458.
- Air-filter. J. A. Gordon. No. 1,398,685; Nov. 29.
- Air-filtering device. G. D. Sherer. No. 1,375,422; Apr. 19; v. 285; p. 498.
- Air-heater. E. J. Ellison. No. 1,399,756; Dec. 13.
- Air-heater. E. T. Whiting. No. 1,385,651; July 26; v. 288; p. 701.
- Air heater and drier. J. A. Meroney. No. 1,365,422; Jan. 11; v. 282; p. 308.
- Air-heater, Electric. O. A. Colby. No. 1,396,813; Nov. 15.
- Air-heating appliance. C. D. Mosher. No. 1,364,135; Jan. 4; v. 282; p. 17.
- Air-heating furnace. L. Lee. No. 1,388,583; Aug. 23; v. 289; p. 700.
- Air-hose, Operating appliance for angle-cocks for. L. Cornell. No. 1,393,882; Oct. 18.
- Air-hose support. O. Stroberger. No. 1,395,616; Nov. 1.
- Air-humidifier. A. W. Lissauer. No. 1,377,594; May 10; v. 286; p. 288.
- Air in compartments, Method of and apparatus for controlling the condition of. W. B. S. Whaley. No. 1,384,367; July 12; v. 288; p. 279.
- Air in rooms and chambers of any kind, Arrangement for changing and heating. P. Barducci. No. 1,395,938; Nov. 1.
- Air-inlet, Auxiliary. C. B. Shaeff. No. 1,398,805; Nov. 29.
- Air-jolt-machines, Automatic cut-off for. E. S. Carman and E. F. Oyster. No. 1,379,799; May 31; v. 286; p. 907.
- Air-lift. R. H. Tucker. No. 1,365,210; Jan. 11; v. 282; p. 268.
- Air-lift apparatus. E. M. Rogers. No. 1,374,952; Apr. 19; v. 285; p. 407.
- Air-lift booster. H. B. Halvorsen. No. 1,398,550; Nov. 29.
- Air-lift booster. J. Oliphant. No. 1,385,708; July 26; v. 288; p. 713.
- Air-lift system. J. Oliphant. No. 1,385,706; July 26; v. 288; p. 712.
- Air-lift system. J. Oliphant. No. 1,385,707; July 26; v. 288; p. 712.
- Air-lifting device. W. N. Rowe. No. 1,392,451; Oct. 4.
- Air-lines, Water-trap for. C. E. Atkinson. No. 1,393,066; Oct. 11.
- Air, Machine for carbureting. M. S. Levè. No. 1,395,505; Nov. 1.
- Air, Method and means for treating. E. R. Case. No. 1,378,095; May 17; v. 286; p. 437.
- Air-moistener. J. F. Maloney. No. 1,384,702; July 12; v. 288; p. 350.
- Air moistening and distributing device. C. W. Mosher. No. 1,394,869; Oct. 25.
- Air-moistening device. W. B. Kraklau and C. Brettschneider. No. 1,400,444; Dec. 13.
- Air motor, Hot-. W. J. H. Strong. No. 1,365,206; Jan. 11; v. 282; p. 267.
- Air or gas, Heat-recuperator for. O. Plette. No. 1,378,130; May 17; v. 286; p. 444.
- Air-preheating device. L. W. Schuessler. No. 1,388,381; Aug. 23; v. 289; p. 661.
- Air, Purifying. H. P. Scott and W. G. Bond. No. 1,379,221; May 24; v. 286; p. 724.
- Air-separator. T. J. Sturtevant. No. 1,367,635; Feb. 8; v. 283; p. 206.
- Air-separator. T. J. Sturtevant. No. 1,367,636; Feb. 8; v. 283; p. 207.
- Air-separator. T. J. Sturtevant. No. 1,367,637; Feb. 8; v. 283; p. 207.
- Air-separator. T. J. Sturtevant. No. 1,378,060; May 17; v. 286; p. 431.
- Air-separator. T. J. Sturtevant. No. 1,379,730; May 31; v. 286; p. 894.
- Air-separator. T. J. Sturtevant. No. 1,383,441; July 5; v. 288; p. 38.
- Air-separator. T. J. Sturtevant. No. 1,384,929; July 19; v. 288; p. 476.
- Air-separator. T. J. Sturtevant. No. 1,385,025; July 19; v. 288; p. 497.
- Air-separator. T. J. Sturtevant. No. 1,385,846; July 26; v. 288; p. 740.
- Air-separator. T. J. Sturtevant. No. 1,385,847; July 26; v. 288; p. 740.
- Air-separator. T. J. Sturtevant. No. 1,385,848; July 26; v. 288; p. 741.
- Air-service station. G. M. Johns. No. 1,364,378; Jan. 4; v. 282; p. 64.
- Air-service station for automobiles. J. B. Beck. No. 1,397,916; Nov. 22.
- Air-spring. L. R. Gruss. No. 1,366,318; Jan. 18; v. 282; p. 523.
- Air-spring. J. J. Isler. No. 1,376,206; Apr. 26; v. 285; p. 679.
- Air-spring suspension. R. Liebau. No. 1,368,563; Feb. 15; v. 283; p. 434.
- Air-spring suspension. R. Liebau. No. 1,368,564; Feb. 15; v. 283; p. 434.
- Air-strainer, Suction. C. C. Farmer. No. 1,375,498; Apr. 19; v. 285; p. 512.
- Air-supply apparatus, Combined priming and auxiliary. N. M. Elwell. No. 1,370,801; Mar. 8; v. 284; p. 245.
- Air-valve and priming-cup, Combination. F. Schwarzer. No. 1,383,244; June 28; v. 287; p. 719.
- Air-washing device. C. L. Worrall. No. 1,377,381; May 10; v. 286; p. 248.
- Aircraft. J. Bauer. No. 1,395,240; Nov. 1.
- Aircraft. G. D. Bruner. No. 1,379,522; May 24; v. 286; p. 781.
- Aircraft. M. T. Brush. No. 1,367,295; Feb. 1; v. 283; p. 82.
- Aircraft. C. H. Casper. No. 1,373,409; Apr. 5; v. 285; p. 5.
- Aircraft. C. H. Caspar. No. 1,376,675; May 3; v. 286; p. 55.
- Aircraft. H. M. Franzen. No. 1,370,736; Mar. 8; v. 284; p. 232.
- Aircraft. L. V. Johnson. No. 1,374,150; Apr. 5; v. 285; p. 149.
- Aircraft. I. C. Little and E. E. Crook. No. 1,377,421; May 10; v. 286; p. 256.
- Aircraft. W. B. Stout. No. 1,377,858; May 10; v. 286; p. 340.
- Aircraft. N. Woyevodsky. No. 1,391,355; Sept. 20; v. 290; p. 516.
- Aircraft accessories, Driving mechanism for. E. F. Andrews. No. 1,364,472; Jan. 4; v. 282; p. 83.
- Aircraft, Air-distance indicator for. M. M. Titterington. No. 1,368,000; Feb. 8; v. 283; p. 276.
- Aircraft, Alighting-gear of. H. Bolas. No. 1,386,310; Aug. 2; v. 289; p. 69.
- Aircraft, Alighting or landing gear. R. K. Pierson and T. S. Duncan. No. 1,364,518; Jan. 4; v. 282; p. 92.
- Aircraft, Alighting or landing gear for. R. K. Pierson and T. S. Duncan. No. 1,399,990; Dec. 13.
- Aircraft and mediums for fixing same, Gas-stopping lining for use in. V. C. Richmond. No. 1,378,804; May 17; v. 286; p. 573.
- Aircraft and similar apparatus, Fuel-supply system for. G. H. Curtiss and H. Kleckler. No. 1,386,846; Aug. 9; v. 289; p. 247.
- Aircraft and submarine howitzer. Anti-. H. W. Thomas. No. 1,377,292; May 10; v. 286; p. 230.
- Aircraft, Automatic stabilizing or controlling means for. G. Aveline. No. 1,379,895; May 31; v. 286; p. 925.
- Aircraft bombing apparatus. H. A. Danne. No. 1,383,257; June 28; v. 287; p. 722.
- Aircraft constructions, Dope or varnish for. S. E. Groves. No. 1,366,256; Jan. 18; v. 282; p. 512.
- Aircraft, Control of the ailerons and elevators of. H. Bolas. No. 1,376,740; May 3; v. 286; p. 68.
- Aircraft, Conveyor for unloading articles from. J. M. Reay. No. 1,380,593; June 7; v. 287; p. 51.
- Aircraft-engines, Fuel supply and regulating system for. E. H. Cawthra. No. 1,398,315; Nov. 29.



- Aircraft, Ground-speed meter for. R. L. Chamberlain. No. 1,385,776; July 26; v. 288; p. 726.
- Aircraft, Interlocking balancing system for. J. P. Tarbox. No. 1,367,840; Feb. 8; v. 283; p. 247.
- Aircraft, Landing-carriage for. J. J. M. A. E. Schneider. No. 1,367,992; Feb. 8; v. 283; p. 274.
- Aircraft, Landing carriage or frame for. E. B. Killen. No. 1,379,576; May 24; v. 286; p. 791.
- Aircraft, Landing-gear and shock-absorber for. G. Ajello. No. 1,376,912; May 3; v. 286; p. 102.
- Aircraft, Landing stage or station for. W. J. Stewart. No. 1,395,612; Nov. 1.
- Aircraft, Landing-station for. P. J. Backus. No. 1,388,319; Aug. 23; v. 289; p. 649.
- Aircraft launching and landing means. H. Butts. No. 1,371,989; Mar. 15; v. 284; p. 536.
- Aircraft, Longitudinal-control system for. W. S. Burgess. No. 1,368,542; Feb. 13; v. 283; p. 430.
- Aircraft, marine steering-gear, and other apparatus, Control device applicable to. W. C. Gardiner. No. 1,389,347; Aug. 30; v. 289; p. 907.
- Aircraft, Means for folding the planes of. H. Bolas. No. 1,395,628; Nov. 1.
- Aircraft, Means for increasing the output of power of engines of. W. C. Russell. No. 1,364,810; Jan. 4; v. 282; p. 147.
- Aircraft, Metal strut for. H. N. Wylie. No. 1,364,538; Jan. 4; v. 282; p. 95.
- Aircraft, Method of and apparatus for delivering torpedo attacks from. A. J. Stone. No. 1,379,788; May 31; v. 286; p. 905.
- Aircraft, Mooring device for lighter-than-air. E. A. Masterman. No. 1,373,343; Mar. 29; v. 284; p. 898.
- Aircraft-motors, Pertaining to internal-combustion. A. C. E. Rateau. No. 1,375,931; Apr. 26; v. 285; p. 627.
- Aircraft of the lighter-than-air type. L. M. Armstrong. No. 1,390,745; Sept. 13; v. 290; p. 330.
- Aircraft parts. Fireproofing. P. R. Bradley. No. 1,372,478; Mar. 22; v. 284; p. 686.
- Aircraft, Pilot directing instrument and bomb-dropping sight for. A. H. Boettcher. No. 1,381,396; June 14; v. 287; p. 256.
- Aircraft-propeller. A. Boerner. No. 1,373,048; Mar. 29; v. 284; p. 839.
- Aircraft-propeller. J. D. Hill. No. 1,401,537; Dec. 27.
- Aircraft, Propeller for. A. Boerner. No. 1,396,917; Nov. 15.
- Aircraft, Propeller for. A. Brulle. No. 1,399,290; Dec. 6.
- Aircraft, Steering device for. L. B. Sperry. No. 1,390,663; Sept. 13; v. 290; p. 312.
- Aircraft such as aeroplanes, Means for indicating direction applicable for use with. T. W. Saxton. No. 1,393,318; Oct. 11.
- Aircraft, Tail-plane and the like for. H. Scott-Paine. No. 1,375,421; Apr. 19; v. 285; p. 498.
- Aircraft used in war, Attachment for. J. A. Steinmetz. No. 1,364,152; Jan. 4; v. 282; p. 20.
- Aircraft, Wing and similar member of. F. H. Page. No. 1,394,343; Oct. 18.
- Aircraft, Wing and similar member of. F. H. Page. No. 1,394,344; Oct. 18.
- Aircraft, without slowing the propeller, Means for varying the speed and stopping way of. J. G. A. Kitchen. No. 1,392,831; Oct. 4.
- Airplane. C. H. Georgi. No. 1,368,133; Feb. 8; v. 283; p. 302.
- Airplane. E. E. Hartman. No. 1,371,240; Mar. 15; v. 284; p. 390.
- Airplane. E. E. Hartman. No. 1,371,241; Mar. 15; v. 284; p. 390.
- Airplane. G. A. Kehl. No. 1,380,391; June 7; v. 287; p. 13.
- Airplane. C. H. Kugler. No. 1,371,493; Mar. 15; v. 284; p. 441.
- Airplane. G. C. Loening. No. 1,394,630; Oct. 25.
- Airplane. D. M. Mills. No. 1,380,576; June 7; v. 287; p. 47.
- Airplane. F. M. Osborne. No. 1,393,820; Oct. 18.
- Airplane. D. E. Randall. No. 1,369,468; Feb. 22; v. 283; p. 648.
- Airplane. M. C. Sharpnack. No. 1,388,770; Aug. 23; v. 289; p. 736.
- Airplane. H. B. Shields. No. 1,383,157; June 28; v. 287; p. 703.
- Airplane. N. R. Smith. No. 1,400,916; Dec. 20.
- Airplane. B. D. Thomas. No. 1,370,242; Mar. 1; v. 284; p. 93.
- Airplane. B. D. Thomas. No. 1,389,106; Aug. 30; v. 289; p. 858.
- Airplane. R. M. Thompson. No. 1,389,797; Sept. 6; v. 290; p. 48.
- Airplane. J. G. Yonkese. No. 1,395,603; Nov. 1.
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- Airplane-brake. C. V. Haynes. No. 1,389,757; Sept. 6; v. 290; p. 39.
- Airplane, Collapsible. O. C. Holgerson. No. 1,368,151; Feb. 8; v. 283; p. 305.
- Airplane construction. G. H. Curtiss. No. 1,368,549; Feb. 15; v. 283; p. 431.
- Airplane-engines, Driving connections for. B. D. Thomas. No. 1,394,870; Oct. 25.
- Airplane-fuselage. W. L. Gilmore. No. 1,368,428; Feb. 15; v. 283; p. 407.
- Airplane-fuselage. W. L. Gilmore. No. 1,394,726; Oct. 25.
- Airplane, Hovering. A. F. Zahm. No. 1,401,934; Dec. 27.
- Airplane-indicator. W. B. Cunningham. No. 1,399,423; Dec. 6.
- Airplane landing and launching mechanism. J. S. Black. No. 1,383,595; July 5; v. 288; p. 70.
- Airplane landing-gear. G. H. Curtiss. No. 1,392,272; Sept. 27; v. 290; p. 775.
- Airplane landing-gear. C. B. Kirkham and A. L. Thurston. No. 1,392,277; Sept. 27; v. 290; p. 776.
- Airplane-launching apparatus. L. J. Le Mesurier. No. 1,388,361; Aug. 23; v. 289; p. 657.
- Airplane-motor to develop its full power at high altitudes, Enabling an. F. I. Raymond. No. 1,398,280; Nov. 29.
- Airplane-radiator. E. T. Curran. No. 1,374,190; Apr. 12; v. 285; p. 198.
- Airplane-rib construction. J. W. Rapp and J. Vanorio. No. 1,397,707; Nov. 22.
- Airplane safety appliance. H. Julian. No. 1,379,264; May 24; v. 286; p. 732.
- Airplane-screw. C. A. de Giers. No. 1,384,308; July 12; v. 288; p. 266.
- Airplane-stabilizer. T. E. Weible. No. 1,388,907; Aug. 30; v. 289; p. 818.
- Airplane structure. H. H. Suplee. No. 1,373,153; Mar. 29; v. 284; p. 861.
- Airplane-velocipede. G. H. Nobbs. No. 1,373,444; Apr. 5; v. 285; p. 13.
- Airplane-wings and the like, Rib for. W. H. Barling. No. 1,385,543; Aug. 23; v. 289; p. 692.
- Airplane-wing construction. G. H. Curtiss. No. 1,364,614; Jan. 4; v. 282; p. 109.
- Airplanes and other lighter-than-air ships, Adjustable pitch and reversible propeller for. S. W. Carter. No. 1,383,888; July 5; v. 288; p. 27.
- Airplanes, Control for. A. A. Clapp. No. 1,365,090; Jan. 11; v. 282; p. 245.
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- Airplanes, Stream-line wiring for. G. H. Curtiss. No. 1,392,271; Sept. 27; v. 290; p. 774.
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- Airship. J. G. Ambrose. No. 1,373,697; Apr. 5; v. 285; p. 61.
- Airship. I. Andersson. No. 1,372,924; Mar. 29; v. 284; p. 816.
- Airship. I. Andersson. No. 1,372,925; Mar. 29; v. 284; p. 816.
- Airship. D. F. Brown. No. 1,374,487; Apr. 12; v. 285; p. 256.
- Airship. K. A. Enlind. No. 1,365,474; Jan. 11; v. 282; p. 319.
- Airship. K. A. Enlind. No. 1,387,247; Aug. 9; v. 289; p. 325.
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- Airship. F. H. Leinweber. No. 1,386,712; Aug. 9; v. 289; p. 220.
- Airship. F. H. Leinweber. No. 1,386,713; Aug. 9; v. 289; p. 220.
- Airship. J. Neff, Sr. No. 1,370,902; Mar. 8; v. 284; p. 263.
- Airship. J. Nelson. No. 1,366,584; Jan. 25; v. 282; p. 620.
- Airship. R. H. Upson. No. 1,375,242; Apr. 19; v. 285; p. 463.
- Airship, Dirigible. A. K. Mattullath. No. 1,376,629; May 3; v. 286; p. 47.
- Airship, Weight-controlled. G. A. Chaddock. No. 1,401,461; Dec. 27.
- Airships and making same, Fabric for. H. A. Gardner. No. 1,381,412; June 14; v. 287; p. 259.
- Airships and making same, Fabric for. H. A. Gardner. No. 1,381,413; June 14; v. 287; p. 259.
- Airships, Controlling device for. J. A. Latham. No. 1,368,917; Feb. 1; v. 283; p. 7.
- Airships, Drift-compensating device for. C. G. Hall. No. 1,385,784; July 26; v. 288; p. 728.
- Airships, Mooring for. R. A. Frazer and L. F. G. Simons. No. 1,373,341; May 3; v. 286; p. 484.
- Airships, Stabilizer for. J. C. Packard. No. 1,370,041; Mar. 1; v. 284; p. 54.
- Airships, Stabilizer for war-. J. C. Packard. No. 1,365,188; Jan. 11; v. 282; p. 264.
- Alarm: See—
- Automatic alarm. Incubator-alarm.
- Automatic alarm. Lock-alarm.
- Automobile burglar-alarm. Low-liquid alarm.
- Automobile-theft alarm. Low-liquid-level alarm.
- Automobile thief-alarm. Obstruction-alarm.
- Burglar-alarm. Pneumatic alarm.
- Burglar and fire alarm. Portable burglar-alarm.
- Burglar or thief alarm. Speed-alarm.
- Detonating-alarm. Theft-alarm.
- Fire-alarm. Thermostatic burglar-alarm.
- Gas-tank alarm. alarm.
- Heat-alarm. Tire-alarm.
- Alarm. J. M. Butcher. No. 1,398,585; Nov. 29.
- Alarm. J. Horn, F. H. May, and J. Mellner. No. 1,392,568; Oct. 4.



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- Alarm. C. E. Muller. No. 1,371,183; Mar. 8; v. 284; p. 316.
- Alarm apparatus. A. H. Jørgensen. No. 1,391,684; Sept. 27; v. 290; p. 656.
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- Alarm-controlling mechanism. A. P. Hodge. No. 1,396,842; Nov. 15.
- Alarm device. J. M. Butcher. No. 1,392,397; Oct. 4.
- Alarm device. S. M. Eisner. No. 1,372,678; Mar. 29; v. 284; p. 765.
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- Alarm or indication apparatus, Audible. G. E. and H. Washington. No. 1,400,113; Dec. 13.
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- Alarm system. R. M. Hopkins. No. 1,398,593; Nov. 29.
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- Alarm track-gage. W. D. Harper. No. 1,395,105; Oct. 25.
- Alarms or other electrically-operated devices, Contact for thief-. F. Cressall. No. 1,383,079; June 28; v. 287; p. 688.
- Album. J. W. Johnson. No. 1,368,803; Feb. 15; v. 283; p. 480.
- Albums, Memorandum attachment for. U. V. Garred. No. 1,374,646; Apr. 12; v. 285; p. 287.
- Albums, Memorandum attachment for. U. V. Garred. No. 1,381,114; June 14; v. 287; p. 205.
- Alcohol and ether from admixture with air, Recovery of. E. Bindschedler. No. 1,376,069; Apr. 26; v. 285; p. 654.
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- Alcohols and hydrocarbons, Separating. C. Ellis and M. J. Cohen. No. 1,365,048; Jan. 11; v. 282; p. 237.
- Alcohols, Manufacturing flavoring extracts with higher. B. H. Smith and J. R. Eoff, Jr. No. 1,384,680; July 12; v. 288; p. 345.
- Alcohols, Separation process of making. C. Ellis. No. 1,365,046; Jan. 11; v. 282; p. 237.
- Alcoholic material, Purifying. M. J. Cohen. No. 1,365,047; Jan. 11; v. 282; p. 237.
- Aldehydes and other oxidation products, Making. C. H. Bibb. No. 1,392,886; Oct. 4.
- Aldehydes and separating same from other products formed. A. A. Backhaus and F. B. Arentz. No. 1,400,205; Dec. 13.
- Aldehydes, Making. A. A. Backhaus and F. B. Arentz. No. 1,368,841; Aug. 30; v. 289; p. 805.
- Alkali-metal silicate, Dry. A. A. Dunham. No. 1,372,224; Mar. 29; v. 284; p. 875.
- Alkali salts of oxidized protalbinic acid and of oxidized lysalbinic acid as stable protective colloids for mercury compounds. M. E. Wolvekamp. No. 1,391,154; Sept. 20; v. 290; p. 475.
- Alkaline sulfid, Making. W. H. Landers. No. 1,374,209; Apr. 12; v. 285; p. 202.
- Alkyl sulfuric acid, Making. G. P. Adamson. No. 1,399,238; Dec. 6.
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- Alloy. A. W. Clement. No. 1,375,082; Apr. 19; v. 285; p. 433.
- Alloy. A. W. Clement. No. 1,375,083; Apr. 19; v. 285; p. 433.
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- Alloy. A. W. Clement. No. 1,400,527; Dec. 20.
- Alloy. C. J. Fink. No. 1,384,056; July 12; v. 288; p. 215.
- Alloy. H. S. Foote. No. 1,366,254; Jan. 18; v. 282; p. 511.
- Alloy. H. Hecht. No. 1,389,446; Aug. 30; v. 289; p. 926.
- Alloy. T. Kosogl. No. 1,369,818; Mar. 1; v. 284; p. 13.
- Alloy. F. Milliken. No. 1,377,089; May 3; v. 286; p. 135.
- Alloy. F. Milliken. No. 1,385,223; July 19; v. 288; p. 538.
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- Alloy. A. Pacz. No. 1,387,900; Aug. 16; v. 289; p. 509.
- Alloy. C. D. Stovall. No. 1,376,656; May 3; v. 286; p. 52.
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- Alloy. C. Vos. No. 1,382,147; June 21; v. 287; p. 456.
- Alloy, Acid-resisting. A. W. Clement. No. 1,375,081; Apr. 19; v. 285; p. 433.
- Alloy, Acid-resisting. A. W. Clement. No. 1,375,672; Apr. 26; v. 285; p. 578.
- Alloy and making same, Aluminum. A. de Lavandeyra. No. 1,365,178; Jan. 11; v. 282; p. 262.
- Alloy and making same, Manganese-magnesium. W. R. Veasey. No. 1,377,374; May 10; v. 286; p. 247.
- Alloy and producing the same, Metal. J. B. Grenagle. No. 1,385,072; July 19; v. 288; p. 507.
- Alloy, Electrical-resistance. F. F. Hansen. No. 1,375,454; Apr. 19; v. 285; p. 504.
- Alloy for electrical resistance. F. F. Hansen. No. 1,375,455; Apr. 19; v. 285; p. 504.
- Alloy, Heat-resisting. J. T. Gieckler. No. 1,389,133; Aug. 30; v. 289; p. 863.
- Alloy, Heat treatment of aluminum. E. Blough. No. 1,394,534; Oct. 25.
- Alloy, High-carbon steel-iron. J. R. Speer. No. 1,391,215; Sept. 20; v. 290; p. 487.
- Alloy, Manufacture of molybdenum-tungsten. F. G. Keyes. No. 1,377,982; May 10; v. 286; p. 364.
- Alloy, Metal. T. Albrecht, R. Peretto, and J. F. Wandersee. No. 1,376,062; Apr. 26; v. 285; p. 652.
- Alloy, Metal. J. F. Wandersee, R. Peretto and T. A. L. Albrecht. No. 1,376,056; Apr. 26; v. 285; p. 651.
- Alloy of iron zirconium and silicon and the production thereof. N. Petinot. No. 1,389,695; Sept. 6; v. 290; p. 27.
- Alloy of nickel and iron and the production thereof. N. Petinot and R. Turnbull. No. 1,389,696; Sept. 6; v. 290; p. 27.
- Alloy of nickel and zirconium, Making an. N. Petinot. No. 1,387,663; Aug. 16; v. 289; p. 461.
- Alloy, Producing ferro-silico-magnesium. G. Pistor, A. B. Beilstein, and A. Beck. No. 1,376,113; Apr. 26; v. 285; p. 662.
- Alloy sheets, Controlling the grain in magnetic. V. B. Browne. No. 1,367,015; Feb. 1; v. 283; p. 26.
- Alloy, Zinc. A. Tedesco. No. 1,364,654; Jan. 4; v. 282; p. 117.
- Alloys. C. D. Stovall. No. 1,375,804; Apr. 26; v. 285; p. 602.
- Alloys, Manufacture of. H. L. Sulman and W. Ballantine. No. 1,392,462; Oct. 4.
- Alloys, Production of metallic. W. B. Ballantine. No. 1,386,981; Aug. 9; v. 289; p. 274.
- Alloys, Treating lead. J. O. Johnstone. No. 1,389,511; Aug. 30; v. 289; p. 939.
- Alloys, Treating light-metal. W. R. Veazey. No. 1,374,968; Apr. 19; v. 285; p. 410.
- Alloyed metals, Surface. F. C. Kelley. No. 1,365,499; Jan. 11; v. 282; p. 324.
- Almonds, Apparatus for bleaching. G. W. Pierce. No. 1,382,850; June 28; v. 287; p. 644.
- Alphabet, Means for classifying bifurcated. G. Fabyan. No. 1,390,027; Sept. 6; v. 290; p. 94.
- Alternating-current commutator-motor. R. E. Hellmund. No. 1,374,565; Apr. 12; v. 285; p. 271.
- Alternator, High-frequency. E. F. W. Alexanderson. No. 1,369,601; Feb. 22; v. 283; p. 674.
- Alternator, High-frequency. E. F. W. Alexanderson and S. P. Nixdorff. No. 1,366,627; Jan. 25; v. 282; p. 629.
- Alum cake, Manufacture of. R. Moldenke. No. 1,388,436; Aug. 23; v. 289; p. 672.
- Alum, Making potash. T. H. Wright. No. 1,396,675; Nov. 8.
- Alumina, Manufacture of pure. E. Martin. No. 1,394,854; Oct. 25.
- Aluminates, Preparation of pure alkalines. P. Miguel. No. 1,376,563; May 3; v. 286; p. 35.
- Aluminous materials, Treatment of granular. H. O. Anderson. No. 1,400,495; Dec. 13.
- Aluminum chlorid, Production of. E. C. Baum and D. O. Jones. No. 1,372,332; Mar. 22; v. 284; p. 659.
- Aluminum compound, Precipitating. M. O. Sem. No. 1,382,808; June 28; v. 287; p. 637.
- Aluminum nitrid and other chemical substances, Apparatus for making. W. Hoopes. No. 1,393,371; Oct. 11.
- Aluminum nitrid and other chemical substances, Making. W. Hoopes. No. 1,393,370; Oct. 11.
- Aluminum nitrid and other chemical substances, Making. W. Hoopes. No. 1,393,372; Oct. 11.
- Aluminum oxid, Reducing. L. Burgess. No. 1,379,523; May 24; v. 286; p. 782.
- Aluminum, Production of ferro-silicon. W. B. D. Penniman and R. S. White. No. 1,369,298; Feb. 22; v. 283; p. 615.
- Aluminum salts, Production of. C. A. Doremus. No. 1,391,172; Sept. 20; v. 290; p. 479.
- Aluminum, Soldering. M. M. Merritt. No. 1,387,426; Aug. 9; v. 289; p. 363.
- Alunite, Treating. M. Shoeld. No. 1,401,741; Dec. 27.
- Amalgam-machine, Dental. A. G. Wright. No. 1,369,209; Feb. 22; v. 283; p. 598.
- Amalgam-mixer for dentists. L. R. Haight. No. 1,377,680; May 10; v. 286; p. 304.
- Amalgamating sluice-box. J. P. Beaupre. No. 1,381,159; June 14; v. 287; p. 212.
- Amalgamator, Cascade-. L. M. Kellogg. No. 1,386,875; Aug. 9; v. 289; p. 253.
- Amalgamator, Gold-. H. C. Brown. No. 1,369,388; Feb. 22; v. 283; p. 633.
- Aminoalkylesters and of alkylaminoalkylesters of para aminobenzoic acid, Production of. W. Bader. No. 1,396,913; Nov. 15.
- Ammeters, Means for calibrating. A. H. Hoyt. No. 1,398,595; Nov. 29.



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- Ammonia and tar recovery. J. Becker. No. 1,375,483; Apr. 19; v. 285; p. 509.
- Ammonia and tar recovery. J. Becker. No. 1,375,484; Apr. 19; v. 285; p. 509.
- Ammonia and tar recovery. J. Becker. No. 1,375,485; Apr. 19; v. 285; p. 510.
- Ammonia and tar recovery. J. van Ackeren. No. 1,375,475; Apr. 19; v. 285; p. 508.
- Ammonia and tar recovery. J. van Ackeren. No. 1,375,476; Apr. 19; v. 285; p. 508.
- Ammonia and tar recovery. J. van Ackeren. No. 1,375,477; Apr. 19; v. 285; p. 508.
- Ammonia and tar recovery. J. van Ackeren. No. 1,375,478; Apr. 19; v. 285; p. 508.
- Ammonia-containing gases, Preparing pure ammonia from. G. N. Vis. No. 1,366,303; Jan. 18; v. 282; p. 520.
- Ammonia, Making. K. P. McElroy. No. 1,390,533; Sept. 13; v. 290; p. 287.
- Ammonia, Oxidation of. J. R. Partington. No. 1,378,271; May 17; v. 286; p. 471.
- Ammonia preparation. W. O. Snelling. No. 1,365,739; Jan. 18; v. 282; p. 410.
- Ammonia, Process and means relating to the production of. C. Bosch. No. 1,386,760; Aug. 9; v. 289; p. 229.
- Ammonia, Producing. I. W. Cedarberg. No. 1,396,557; Nov. 8.
- Ammonia, Recovery of. J. H. MacMahon. No. 1,378,593; May 17; v. 286; p. 532.
- Ammonia-soda process. J. H. MacMahon. No. 1,384,141; July 12; v. 288; p. 232.
- Ammonia-still. A. Roberts. No. 1,379,939; May 31; v. 286; p. 934.
- Ammonium chlorid from fuels, Producing. W. Ostwald. No. 1,367,082; Feb. 1; v. 283; p. 40.
- Ammonium-chlorid liquors from the ammonia-soda process, Working up residuary. T. Lichtenhahn. No. 1,398,135; Nov. 22.
- Ammonium chlorid, Producing. O. L. Christenson and K. I. M. Gisiko. No. 1,397,264; Nov. 15.
- Ammonium chlorid, Recovering. E. Piron. No. 1,386,278; Aug. 2; v. 289; p. 63.
- Ammonium phosphate. H. C. Hetherington and J. M. Braham. No. 1,369,763; Feb. 22; v. 283; p. 707.
- Ammonium sulfate, Apparatus and process for the recovery of. J. Becker. No. 1,366,111; Jan. 18; v. 282; p. 483.
- Ammonium sulfate, Making. G. N. Vis. No. 1,366,302; Jan. 18; v. 282; p. 520.
- Ammonium sulfate, Neutralizing and drying commercial. S. E. Linder and R. Lessing. No. 1,377,493; May 10; v. 286; p. 270.
- Ammonium sulfate, Transforming free or combined ammonia into. G. N. Vis. No. 1,366,301; Jan. 18; v. 282; p. 520.
- Ammunition-hoist. E. D. Cummings. No. 1,381,084; June 7; v. 287; p. 146.
- Ammunition-packing case. J. S. Peoples. No. 1,372,385; Mar. 29; v. 284; p. 906.
- Amplifier. S. E. Adair. No. 1,383,275; July 5; v. 288; p. 3.
- Amplifier. J. W. Milnor. No. 1,378,712; May 17; v. 286; p. 555.
- Amplifying apparatus. M. C. A. Latour. No. 1,382,738; June 28; v. 287; p. 624.
- Amplifying system. C. A. Hoxie. No. 1,382,914; June 28; v. 287; p. 657.
- Amusement and exercise apparatus. J. W. E. Dean. No. 1,371,867; Mar. 15; v. 284; p. 512.
- Amusement apparatus. W. H. Balcke and W. A. Ready. No. 1,397,832; Nov. 22.
- Amusement apparatus. F. R. Chester. No. 1,368,115; Feb. 8; v. 283; p. 298.
- Amusement apparatus. F. R. Chester. No. 1,394,277; Oct. 18.
- Amusement apparatus. E. B. Glendenning. No. 1,369,525; Feb. 22; v. 283; p. 659.
- Amusement apparatus. J. A. Healy. No. 1,379,185; May 24; v. 286; p. 717.
- Amusement apparatus. J. A. Healy. No. 1,398,514; Nov. 29.
- Amusement apparatus. H. F. Maynes. No. 1,397,009; Nov. 15.
- Amusement apparatus. H. F. Maynes. (Reissue.) No. 1,524; Dec. 6.
- Amusement apparatus. H. B. Moore. No. 1,367,417; Feb. 1; v. 283; p. 106.
- Amusement apparatus. M. and H. Stoehrer. No. 1,372,108; Mar. 29; v. 284; p. 851.
- Amusement apparatus. F. W. Thompson. No. 1,388,130; Aug. 16; v. 289; p. 553.
- Amusement apparatus. M. Unger. No. 1,378,635; May 17; v. 286; p. 540.
- Amusement device. D. A. Alpert. No. 1,386,590; Aug. 9; v. 289; p. 195.
- Amusement device. C. P. La Batt. No. 1,384,963; July 19; v. 288; p. 483.
- Amusement device. D. Bird. No. 131,194; Mar. 8; v. 284; p. 318.
- Amusement device. O. V. Borgeson. No. 1,371,845; Mar. 15; v. 284; p. 508.
- Amusement device. E. L. Bowman. No. 1,396,247; Nov. 8.
- Amusement device. H. D. Bryant. No. 1,393,494; Oct. 11.
- Amusement device. G. R. Cudlipp. No. 1,400,497; Dec. 13.
- Amusement device. J. J. Cullinan. No. 1,395,261; Nov. 1.
- Amusement device. G. D. Demetropoulos. No. 1,369,887; Mar. 1; v. 284; p. 25.
- Amusement device. P. Faber. No. 1,367,868; Feb. 8; v. 283; p. 252.
- Amusement device. J. Fihner. No. 1,388,420; Aug. 23; v. 289; p. 669.
- Amusement device. S. W. Gass. No. 1,371,887; Mar. 15; v. 284; p. 516.
- Amusement device. C. F. Gebert. No. 1,380,893; June 7; v. 287; p. 109.
- Amusement device. F. E. Guild. No. 1,365,984; Jan. 18; v. 282; p. 458.
- Amusement device. W. C. Hadley. No. 1,382,423; June 21; v. 287; p. 509.
- Amusement device. H. Halfpenny. No. 1,393,117; Oct. 11.
- Amusement device. E. N. Hennegan. No. 1,395,674; Nov. 1.
- Amusement device. C. A. Hoadley. No. 1,373,425; Apr. 5; v. 285; p. 9.
- Amusement device. S. Jacobs. No. 1,366,004; Jan. 18; v. 282; p. 462.
- Amusement device. S. Jacobs. No. 1,390,789; Sept. 13; v. 290; p. 339.
- Amusement device. C. Johnson. No. 1,376,886; May 3; v. 286; p. 97.
- Amusement device. R. S. Lindamood. No. 1,379,454; May 24; v. 286; p. 768.
- Amusement device. J. G. Malouf. No. 1,397,135; Nov. 15.
- Amusement device. A. A. McFadden. No. 1,365,419; Jan. 11; v. 282; p. 309.
- Amusement device. H. W. Peterson. No. 1,372,542; Mar. 22; v. 284; p. 698.
- Amusement device. J. Popper. No. 1,377,221; May 10; v. 286; p. 216.
- Amusement device. L. Raymond. No. 1,400,314; Dec. 13.
- Amusement device. J. M. Russell. No. 1,373,765; Apr. 5; v. 285; p. 74.
- Amusement device. J. Sayih. No. 1,399,582; Dec. 6.
- Amusement device. F. Stroud. No. 1,386,209; Aug. 2; v. 289; p. 49.
- Amusement device, Submersible. H. Gernsback. No. 1,384,750; July 19; v. 288; p. 440.
- Amusement device. M. Unger. No. 1,370,385; Mar. 1; v. 284; p. 119.
- Amusement device. M. Unger. No. 1,397,939; Nov. 22.
- Amusement device. M. Unger, B. S. Veazie, and J. W. Zarro. No. 1,397,938; Nov. 22.
- Amusement device (circulating whip). E. Kohler. No. 1,398,639; Nov. 29.
- Amusement structure. J. A. Miller. No. 1,380,730; June 7; v. 287; p. 77.
- Amusement structure. J. A. Miller. No. 1,380,731; June 7; v. 287; p. 77.
- Amusement-wheel, Multiform. T. Van Kannel. No. 1,371,528; Mar. 15; v. 284; p. 448.
- Analytical balance. W. M. Pestel. No. 1,387,998; Aug. 16; v. 289; p. 528.
- Anchor. A. B. Chance. No. 1,384,825; July 19; v. 288; p. 455.
- Anchor. E. Goodreau. No. 1,373,067; Mar. 29; v. 284; p. 843.
- Anchor. A. T. Jones. No. 1,373,740; Apr. 5; v. 285; p. 69.
- Anchor. A. McNab. No. 1,385,921; July 26; v. 288; p. 755.
- Anchor. P. J. Ryan. No. 1,392,526; Oct. 4.
- Anchor. F. Watt. No. 1,365,011; Jan. 11; v. 282; p. 231.
- Anchor. W. B. Wenlock and W. A. Martin. No. 1,372,259; Mar. 22; v. 284; p. 644.
- Anchor arrangement. A. T. Jones. No. 1,373,741; Apr. 5; v. 285; p. 69.
- Anchor, Bolt-. J. E. Ogden. No. 1,365,945; Jan. 18; v. 282; p. 451.
- Anchor device. C. D. Page. No. 1,366,744; Jan. 25; v. 282; p. 652.
- Anchor, Bolt-. C. S. Girvan. No. 1,396,569; Nov. 8.
- Anchor-drill bolt. J. H. Phillips. No. 1,379,209; May 24; v. 286; p. 722.
- Anchor, Guy-. A. Bearse. No. 1,376,854; May 3; v. 286; p. 90.
- Anchor, Machine-bolt. J. E. Ogden. No. 1,365,719; Jan. 18; v. 282; p. 406.
- Anchor mechanism. A. T. Jones. No. 1,373,742; Apr. 5; v. 285; p. 70.
- Anchor, Motometer-. W. J. Ashton. No. 1,390,975; Sept. 20; v. 290; p. 439.
- Anchor, Mushroom. W. R. Case. No. 1,384,824; July 19; v. 288; p. 455.
- Anchor, Post-. C. L. Leonard. No. 1,375,398; Apr. 19; v. 285; p. 493.
- Anchor-post. A. L. Melvin. No. 1,393,808; Oct. 18.
- Anchor, Rail-. F. W. Cooper and H. Steadworthy. No. 1,366,558; Jan. 25; v. 282; p. 615.
- Anchor, Rail-. F. W. Cooper and H. Steadworthy. No. 1,379,531; May 24; v. 286; p. 783.
- Anchor-rod eye. A. B. Chance. No. 1,373,223; Mar. 29; v. 284; p. 875.
- Anchor-shell drill. J. H. Phillips. No. 1,379,210; May 24; v. 286; p. 722.



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- Anchor, Stockless. C. W. Steele. No. 1,366,218; Jan. 18; v. 282; p. 504.
- Anchor, Trap-. W. R. Lazenby. No. 1,368,813; Feb. 15; v. 283; p. 482.
- Anchor, Tenon-. E. B. Bicker. No. 1,399,183; Dec. 6.
- Anchoring aeroplane, navigating and supply stations at any depth of the ocean. E. R. Armstrong. No. 1,378,394; May 17; v. 286; p. 494.
- Anchoring device. E. A. M. Bandoly. No. 1,373,645; Apr. 5; v. 285; p. 51.
- Anchoring device. N. S. Sked. No. 1,368,296; Feb. 15; v. 283; p. 381.
- Anchoring device. M. H. Paine and W. S. Williams. No. 1,396,278-9; Nov. 8.
- Anchoring device. K. O. Wetzel. No. 1,379,065; May 24; v. 286; p. 694.
- Anchoring means. H. T. R. Dray. No. 1,388,031; Aug. 16; v. 289; p. 534.
- Anesthetic compound. O. Kamm and E. H. Volwiler. No. 1,388,573; Aug. 23; v. 289; p. 698.
- Anesthetizing-machine. J. A. Heidbrink. No. 1,387,647; Aug. 16; v. 289; p. 458.
- Angle-cock handle. C. C. Farmer. No. 1,387,971; Aug. 16; v. 289; p. 522.
- Angle-iron, Machine for bending. J. Karpouch. No. 1,380,482; June 7; v. 287; p. 30.
- Angle-joint. J. Malers. No. 1,392,070; Sept. 27; v. 290; p. 734.
- Angle-measuring and surveying instrument. J. M. Boyle. No. 1,366,308; Jan. 18; v. 282; p. 521.
- Angle-tool, Combination. H. A. Landis. No. 1,398,234; Nov. 29.
- Angle-wrench. C. T. Root. 1,398,116; Nov. 22.
- Angled handpiece. C. A. Herman. No. 1,380,717; June 7; v. 287; p. 75.
- Angles, Instrument for measuring. M. A. Tonnessen. No. 1,381,520; June 14; v. 287; p. 278.
- Angular elevation or depression of distant objects, Apparatus for determining. L. B. Booth. No. 1,392,263; Sept. 27; v. 290; p. 773.
- Anhydrous antimony trichlorid, Making. O. C. Ralston. No. 1,384,918; July 19; v. 288; p. 474.
- Anhydrous organic acids, Making substantially. R. L. Andreau. No. 1,381,782; June 14; v. 287; p. 329.
- Anhydrous zinc chlorid, Production of. P. Danckwardt. No. 1,369,729; Feb. 22; v. 283; p. 700.
- Animal and vegetable life, Material for the destruction of noxious. F. W. Sperr, Jr. No. 1,366,293; Jan. 18; v. 282; p. 519.
- Animal and bird trap. W. Nawracaj and W. Jarosz. No. 1,391,489; Sept. 20; v. 290; p. 543.
- Animal-crate. G. H. Hall. No. 1,368,209; Feb. 8; v. 283; p. 317.
- Animal-cover. R. T. Laacke. No. 1,398,381; Nov. 29.
- Animal-feeding device. I. Mattson. No. 1,398,336; Nov. 29.
- Animal-poke. P. Barney. No. 1,373,701; Apr. 5; v. 285; p. 62.
- Animal-poke. J. Ottl. No. 1,364,797; Jan. 4; v. 282; p. 144.
- Animal-poke. O. M. Owens. No. 1,400,568; Dec. 20.
- Animal-releasing device. A. A. R. Vogt. No. 1,365,133; Jan. 11; v. 282; p. 254.
- Animal-skinning knife, Motor-driven. H. H. Schollmeyer. No. 1,400,379; Dec. 13.
- Animal-stock. T. Olinger. No. 1,394,783; Oct. 25.
- Animal-trap. J. F. Arneith. No. 1,387,826; Aug. 16; v. 289; p. 494.
- Animal-trap. C. L. Barber. No. 1,372,927; Mar. 29; v. 284; p. 816.
- Animal-trap. A. Bonville. No. 1,370,512; Mar. 8; v. 284; p. 188.
- Animal-trap. P. J. Brewington. No. 1,373,594; Apr. 5; v. 285; p. 42.
- Animal-trap. R. E. Bristler. No. 1,370,084; Mar. 1; v. 284; p. 62.
- Animal-trap. T. S. Catlin. No. 1,396,810; Nov. 15.
- Animal-trap. L. Chute. No. 1,389,626; Sept. 6; v. 290; p. 18.
- Animal-trap. S. Dybowski. No. 1,380,785; June 7; v. 287; p. 88.
- Animal-trap. J. R. Eastridge. No. 1,389,636; Sept. 6; v. 290; p. 15.
- Animal-trap. J. R. and G. W. Elder. No. 1,393,516; Oct. 11.
- Animal-trap. P. Gallagher. No. 1,369,020; Feb. 22; v. 283; p. 562.
- Animal-trap. W. B. Gilmore. No. 1,384,890; July 19; v. 288; p. 468.
- Animal-trap. J. Gorniak. No. 1,384,611; July 12; v. 288; p. 330.
- Animal-trap. A. W. Hoare. No. 1,376,695; May 3; v. 286; p. 59.
- Animal-trap. F. Hulsmann. No. 1,381,464; June 14; v. 287; p. 268.
- Animal-trap. T. Kalembe. No. 1,384,698; July 12; v. 288; p. 349.
- Animal-trap. J. Kasprzyk. No. 1,395,680; Nov. 1.
- Animal-trap. E. E. Kohl. No. 1,376,772; May 3; v. 286; p. 74.
- Animal-trap. W. Laburda. No. 1,380,108; May 31; v. 286; p. 966.
- Animal-trap. W. F. Lange. No. 1,376,554; May 3; v. 286; p. 33.
- Animal-trap. W. E. Linz, Jr. No. 1,370,327; Mar. 1; v. 284; p. 108.
- Animal-trap. H. C. McCurrie. No. 1,400,175; Dec. 13.
- Animal-trap. K. Melnick. No. 1,397,440; Nov. 15.
- Animal-trap. J. Michalczak. No. 1,390,805; Sept. 13; v. 290; p. 342.
- Animal-trap. O. Palahnuk. No. 1,387,803; Aug. 16; v. 289; p. 490.
- Animal-trap. A. F. Renken. No. 1,392,797; Oct. 4.
- Animal-trap. C. Richmond. No. 1,372,906; Mar. 29; v. 284; p. 812.
- Animal-trap. W. A. Ropp. No. 1,366,282; Jan. 18; v. 282; p. 517.
- Animal-trap. W. A. Scott. No. 1,372,561; Mar. 22; v. 284; p. 702.
- Animal-trap. W. A. Telga. No. 1,401,011; Dec. 20.
- Animal-trap. A. L. Townsend. No. 1,382,030; June 21; v. 287; p. 435.
- Animal-trap. W. A. Wells. No. 1,382,153; June 21; v. 287; p. 457.
- Animal-trap for catching rats, mice, &c. A. M. Worcester. No. 1,379,326; May 24; v. 286; p. 745.
- Animal-weaning device. W. F. Kolarik. No. 1,400,750; Dec. 20.
- Animals or birds, Marking-tag for. Z. C. Ketchum. No. 1,382,091; June 21; v. 287; p. 446.
- Ankle-joint, Cordless. M. E. Rice. No. 1,382,855; June 28; v. 287; p. 646.
- Ankle-supporter. H. B. Hamilton. No. 1,397,095; Nov. 15.
- Ankle-stay and arch-support, Combined. A. Posner. No. 1,386,531; Aug. 2; v. 289; p. 111.
- Annealing and heating systems, Electrode for. W. Hurlburt. No. 1,398,192; Nov. 22.
- Annealing or otherwise treating metals, Apparatus for use in. A. Howgate. No. 1,398,520; Nov. 29.
- Annealing. P. A. Meehan. No. 1,388,188; Aug. 23; v. 289; p. 621.
- Annealing. C. M. Stein. No. 1,388,976; Aug. 30; v. 289; p. 832.
- Annealing-box. H. T. McBratney. No. 1,376,448; May 3; v. 286; p. 14.
- Annealing metal sheets, Method of and apparatus for. F. C. Frary. No. 1,377,574; May 10; v. 286; p. 284.
- Annotator. A. B. Church and J. P. Warren. No. 1,377,749; May 10; v. 286; p. 318.
- Annular articles, Wrapping-machine for. W. M. Wheelodon and E. H. Angier. No. 1,380,448; June 7; v. 287; p. 23.
- Annular bodies, Feeding device for. A. G. E. Hultgren. No. 1,396,116; Nov. 8.
- Annunciator. H. A. Franz. No. 1,393,275; Oct. 11.
- Annunciator. B. R. Kabigting. No. 1,396,636; Nov. 8.
- Annunciator-drop. C. J. Henschel. No. 1,393,685; Oct. 11.
- Anode. J. H. Hall. No. 1,366,534; Jan. 25; v. 282; p. 610.
- Anode. A. H. Wicks. No. 1,373,693; Apr. 5; v. 285; p. 61.
- Antenna system, Underground or underwater. E. T. Jones. No. 1,372,658; Mar. 22; v. 284; p. 721.
- Antenna-shortening device. W. Dubiller. No. 1,391,673; Sept. 27; v. 290; p. 653.
- Anthranel, Manufacture of. A. G. Perkin. No. 1,375,972; Apr. 26; v. 285; p. 635.
- Anthraquinone derivatives and new products resulting therefrom, Manufacture of. A. Lüttringhaus and L. Efflaender. No. 1,394,851; Oct. 25.
- Anthraquinone, Producing. C. R. Downs. No. 1,374,721; Apr. 12; v. 285; p. 301.
- Anti-corrosive composition. T. Yoshizawa. No. 1,365,760; Jan. 18; v. 282; p. 414.
- Antifreeze head-gate. N. Peterson. No. 1,377,921; May 10; v. 286; p. 252.
- Antifreeze-hydrants, Supply and drain cap for. K. Murdock. No. 1,385,572; July 26; v. 288; p. 685.
- Antifrost device. F. C. Stewart. No. 1,394,648; Oct. 25.
- Antileak composition. W. N. Shrum. No. 1,383,572; July 5; v. 288; p. 65.
- Antirattler. E. J. Gulick. No. 1,387,539; Aug. 16; v. 289; p. 436.
- Antirattling device. H. E. Ewing. No. 1,400,482; Dec. 13.
- Antirattler for window-sashes. P. W. Pick. No. 1,386,024; Aug. 2; v. 289; p. 13.
- Antirattler for windows. D. B. Geddes. No. 1,385,208; July 19; v. 288; p. 535.
- Antirattling device. R. G. McCoskrie. No. 1,398,105; Nov. 22.
- Antiseptic case and surgical knife, Combined. H. K. Powers. No. 1,390,720; Sept. 13; v. 290; p. 324.
- Antiseptic solution. A. S. Cushman. No. 1,399,007; Dec. 6.
- Antiskid-chain. G. T. Wallace and J. E. Twitchell. No. 1,393,986; Oct. 18.
- Anticreeper. D. L. Vaughan. No. 1,367,901; Feb. 8; v. 283; p. 257.
- Antigliare attachment. W. S. Sumner. No. 1,368,986; Feb. 15; v. 283; p. 515.
- Anti-skid clamp. H. Summerfield. No. 1,369,363; Feb. 22; v. 283; p. 628.
- Antiskid device. J. R. Baude. No. 1,375,201; Apr. 19; v. 285; p. 456.
- Antiskid device. S. Beker. No. 1,398,356; Nov. 29.
- Antiskid device. J. Briggs. No. 1,381,060; June 7; v. 287; p. 142.



- Antiskid device. C. A. Frisco. No. 1,396,567; Nov. 8.  
 Antiskid device. W. J. Gunderman. No. 1,400,358; Dec. 13.  
 Antiskid device. G. Hoag. No. 1,396,207; Nov. 8.  
 Antiskid device. N. M. Hopkins. No. 1,380,964; June 7; v. 287; p. 123.  
 Antiskid device. J. C. Keavey. No. 1,388,264; Aug. 23; v. 289; p. 637.  
 Antiskid device. W. H. Krug. No. 1,385,010; July 19; v. 288; p. 494.  
 Antiskid device. V. Kubelka. No. 1,383,823; July 5; v. 288; p. 117.  
 Antiskid device. O. S. Pulliam. No. 1,391,342; Sept. 20; v. 290; p. 514.  
 Antiskid device. H. Saint Pierce. No. 1,368,834; Feb. 15; v. 283; p. 487.  
 Antiskid device. A. I. Sandbo. No. 1,399,658; Dec. 6.  
 Antiskid device. M. F. Schopf and L. J. Christianson. No. 1,375,735; Apr. 26; v. 285; p. 589.  
 Antiskid device. G. F. Snow. No. 1,399,163; Dec. 6.  
 Antiskid device. G. Staples. No. 1,379,059; May 24; v. 286; p. 693.  
 Antiskid device. I. J. Thompson. No. 1,389,607; Sept. 6; v. 290; p. 9.  
 Antiskid device. C. A. Warren. No. 1,371,956; Mar. 15; v. 284; p. 529.  
 Antislip device. T. P. Vander Shik. No. 1,370,245; Mar. 1; v. 284; p. 93.  
 Antiskid device for motor-vehicles. V. L. Gosney. No. 1,399,612; Dec. 6.  
 Antiskid device for vehicles. W. H. Krug. No. 1,383,407; July 5; v. 288; p. 31.  
 Antiskidding device. T. V. Elliott. No. 1,390,893; Sept. 13; v. 290; p. 360.  
 Antiskidding device for vehicle-wheels. E. N. Breitung. No. 1,391,667; Sept. 27; v. 290; p. 652.  
 Antiskid-tread. L. Angelo. No. 1,399,179; Dec. 6.  
 Antislip rope and cable clamp. H. A. Stork. No. 1,390,654; Sept. 13; v. 290; p. 313.  
 Antislipping device. G. Kabacij and A. Bartus. No. 1,378,962; May 24; v. 286; p. 675.  
 Antislipping device. J. D. Ross. No. 1,364,454; Jan. 4; v. 282; p. 79.  
 Antiskidding device. W. C. Smiley. No. 1,385,282; July 19; v. 288; p. 549.  
 Antiskidding device. W. E. Tubbs. No. 1,383,261; June 28; v. 287; p. 723.  
 Antiskidding device for vehicle-wheels. W. H. Snyder. No. 1,386,377; Aug. 2; v. 289; p. 81.  
 Anvil. W. Dornan. No. 1,396,679; Nov. 8.  
 Apparel apparatus. J. H. Kelly and T. W. Prosser. No. 1,364,380; Jan. 4; v. 282; p. 64.  
 Apparel, Clamping device for articles of. G. A. Renault. No. 1,401,556; Dec. 27.  
 Apparel, Laced article of. C. Munter. No. 1,367,419; Feb. 1; v. 283; p. 107.  
 Apparel, Wearing-. A. Blattner. No. 1,382,616; June 28; v. 287; p. 600.  
 Appliance for casting metal ingots into molds. H. H. Hosack. No. 1,375,589; Apr. 19; v. 285; p. 529.  
 Applicator. J. N. Whitehouse. No. 1,382,397; June 21; v. 287; p. 504.  
 Applying device. J. W. Cosgrove. No. 1,392,301; Oct. 4.  
 Apricot-cutter. C. F. Garman. No. 1,365,166; Jan. 11; v. 282; p. 260.  
 Apron. L. Broman. No. 1,386,595; Aug. 9; v. 289; p. 196.  
 Apron. H. W. Parker. No. 1,389,689; Sept. 6; v. 290; p. 26.  
 Apron. E. C. Pease. No. 1,385,391; July 26; v. 288; p. 647.  
 Apron, Catamenial-. M. S. George. No. 1,386,777; Aug. 9; v. 289; p. 232.  
 Apron, Rubbing-. C. C. Shepard. No. 1,367,281; Feb. 1; v. 283; p. 79.  
 Aprons, Support for drier-. A. C. Sargent. No. 1,401,366; Dec. 27.  
 Arbor. E. L. Rohs. No. 1,401,281; Dec. 27.  
 Arbor-press. C. P. Beach. No. 1,373,388; Apr. 5; v. 285; p. 41.  
 Arc-circuits, Electric-current generator for. J. A. Hollfield. No. 1,374,080; Apr. 5; v. 285; p. 136.  
 Arc device and starting same, Inclosed-. E. Friederich. No. 1,393,520; Oct. 11.  
 Arc-extinguishing-device. L. N. Crichton. No. 1,368,325; Feb. 15; v. 283; p. 387.  
 Arc-light. J. J. Harmer. No. 1,392,497; Oct. 4.  
 Arc-radio-oscillation generator. H. F. Elliott. No. 1,385,121; July 19; v. 288; p. 518.  
 Arc-regulator, Automatic. J. E. Soons and H. Robinson. No. 1,374,404; Apr. 12; v. 285; p. 239.  
 Arc striking and extinguishing apparatus. E. A. Sperry. No. 1,379,881; May 31; v. 286; p. 923.  
 Arc-welding, Electrode-holder for. O. H. Eschholz. No. 1,384,439; July 12; v. 288; p. 295.  
 Arc-welding, Method of and apparatus for. H. D. Morton. No. 1,392,436; Oct. 4.  
 Arc-welding system, Alternating-current. W. A. Hall. No. 1,364,857; Jan. 4; v. 282; p. 156.  
 Arc-welding system, Alternating-current. J. Kjekstad. No. 1,368,507; Feb. 15; v. 283; p. 423.  
 Arc-welding system and operating same. H. D. Morton. No. 1,392,437; Oct. 4.  
 Arch and archbrick. A. H. Willett. No. 1,394,873; Oct. 25.  
 Arch and brick therefor, Perforated. A. H. Willett. No. 1,395,542; Nov. 1.  
 Arch construction, Crowned-. J. G. Thomas. No. 1,376,482; May 3; v. 286; p. 20.  
 Arch of the foot, Support for the anterior metatarsal. A. E. Block. (Reissue.) No. 15,053; Mar. 1; v. 284; p. 142.  
 Arch-support. A. E. Block. No. 1,378,398; May 17; v. 286; p. 494.  
 Arch-support. P. Dunne. No. 1,396,323; Nov. 8.  
 Arch-support. G. Galloway. No. 1,401,066; Dec. 20.  
 Arch-support. J. F. Kolkebeck. No. 1,387,411; Aug. 9; v. 289; p. 360.  
 Arch-support. R. C. Ross. No. 1,396,528; Nov. 8.  
 Arch-support. A. Ruhl. No. 1,390,817; Sept. 13; v. 290; p. 345.  
 Arch-support. Q. D. Scott. No. 1,372,094; Mar. 22; v. 284; p. 612.  
 Arch-support. W. N. Sechler. No. 1,391,584; Sept. 20; v. 290; p. 563.  
 Arch support, Shank-piece and metatarsal-. J. Steinbrecher. No. 1,387,952; Aug. 16; v. 289; p. 518.  
 Arch-support. G. F. Spiegel. No. 1,399,447; Dec. 6.  
 Arch support, Metatarsal-. L. Adair. No. 1,365,645; Jan. 18; v. 282; p. 391.  
 Arch-supporter. W. N. Barrett. No. 1,369,375; Feb. 22; v. 283; p. 630.  
 Arch-supporter. W. M. Ludwig. No. 1,389,767; Sept. 6; v. 290; p. 41.  
 Arch-supporter, Twin-spring. J. H. Wilber. No. 1,375,432; Apr. 19; v. 285; p. 500.  
 Archer's bow. A. E. Shepherdson. No. 1,396,788; Nov. 15.  
 Areoplanes, Connecting element for. G. Caproni. No. 1,370,583; Mar. 8; v. 284; p. 202.  
 Arctic-upper-stamping machine. L. J. Bazzoni. No. 1,388,842; Aug. 30; v. 289; p. 805.  
 Area wing, Variable-. H. D. Fowler. No. 1,392,005; Sept. 27; v. 290; p. 722.  
 Arithmetic, Apparatus for illustrating and demonstrating the principles of pure. F. A. Roddy. No. 1,372,087; Mar. 22; v. 284; p. 611.  
 Arithmetic, Educational appliance for. J. Keckeis. No. 1,378,241; May 17; v. 286; p. 465.  
 Arm and hand, Artificial. O. L. Dilworth. No. 1,385,817; July 26; v. 288; p. 734.  
 Arm, Artificial. W. Sourek and J. Kopfhamer. No. 1,399,031; Dec. 6.  
 Arm construction, Tone-. H. K. Sandell. No. 1,376,042; Apr. 26; v. 285; p. 648.  
 Arm, Cutter-boring. A. J. Lavoie. No. 1,399,971; Dec. 13.  
 Arm frame, Artificial-. A. Hulsmann. No. 1,399,622; Dec. 6.  
 Arm-fitting. T. P. Cheevers. No. 1,384,826; July 19; v. 288; p. 455.  
 Arm, Gripper-. L. J. Warner. No. 1,387,026; Aug. 9; v. 289; p. 283.  
 Arm-rest. T. J. James. No. 1,376,280; Apr. 26; v. 285; p. 694.  
 Arm-rest. B. F. Pease. No. 1,376,380; Apr. 26; v. 285; p. 712.  
 Arm, Small-. E. A. L. Bourdelles. No. 1,367,453; Feb. 1; v. 283; p. 113.  
 Arm, Small-. P. T. Godsal. No. 1,393,112; Oct. 11.  
 Arm, Tone-. L. D. Nadel. No. 1,394,509; Oct. 13.  
 Arms, Artificial. F. C. Henning. No. 1,366,453; Jan. 25; v. 282; p. 594.  
 Arms and legs, Control for artificial. J. R. B. Norfolk. No. 1,388,524; Aug. 23; v. 289; p. 689.  
 Armature-coils, Machine for forming. F. C. Nickol. No. 1,373,522; Apr. 5; v. 285; p. 23.  
 Armature-coils, Press for. S. W. Morris. No. 1,393,035; Oct. 11.  
 Armature insulation. J. F. Cullin. No. 1,375,133; Apr. 19; v. 285; p. 442.  
 Armature-winding. J. A. Kuyser. No. 1,382,987; June 28; v. 287; p. 671.  
 Armature-winding device. H. K. Sandell. No. 1,371,647; Mar. 15; v. 284; p. 471.  
 Armature-winding machine. L. E. Wood. No. 1,375,745; Apr. 26; v. 285; p. 591.  
 Armature-windings, Short-circuiting means for. E. I. Pearson. No. 1,399,991; Dec. 13.  
 Armatures, Device for testing. S. E. Couch. No. 1,373,383; Mar. 29; v. 284; p. 906.  
 Armatures, Insulation for. J. F. Cullin. No. 1,392,557; Oct. 4.  
 Armchair. M. McCarthy. No. 1,389,254; Aug. 30; v. 289; p. 888.  
 Armchair and bed. C. E. Baird. No. 1,395,465; Nov. 1.  
 Armor and inner liner, Combination. S. I. Baer. No. 1,372,858; Mar. 29; v. 284; p. 802.  
 Armor, Bullet-proof. T. de Dragic and A. Schwarz. No. 1,398,682; Nov. 29.  
 Armor-piercing projectiles, Cap for. R. A. Hadfield. No. 1,375,452; Apr. 19; v. 285; p. 504.  
 Armor-piercing tracing-bullet. W. L. Clay, J. C. Beatty, and D. G. Baker. No. 1,384,011; July 5; v. 288; p. 156.  
 Armor-plate, Wire-fabric. C. Zeglen. No. 1,376,304; Apr. 26; v. 285; p. 699.  
 Armor-winding machine. H. Hansen. No. 1,396,197; Nov. 8.  
 Armrest. W. J. McPartland. No. 1,378,704; May 17; v. 286; p. 554.  
 Armrest, Folding. J. P. Brophy. No. 1,399,744; Dec. 13.



## Alphabetical list of inventions—Continued.

- Aromas of food, &c., Recovery of escaping. C. W. Trigg. No. 1,367,725; Feb. 8; v. 283; p. 224.
- Aromatic and flavoring constituents, Recovery of. C. W. Trigg. No. 1,367,724; Feb. 8; v. 283; p. 224.
- Arsenate of lead and making same, Suspended. C. H. Sakryd and H. M. Rosencrans. No. 1,390,647; Sept. 13; v. 290; p. 312.
- Arsenate of lead and making same, Suspended. C. H. Sakryd and H. M. Rosencrans. No. 1,390,648; Sept. 13; v. 290; p. 312.
- Arsenic trioxid, Purifying. C. P. Linville. No. 1,372,443; Mar. 22; v. 284; p. 679.
- Arsin, phosphin and stibin, Process and apparatus for the electrolytic generation of. H. Blumenberg, Jr. No. 1,375,819; Apr. 26; v. 285; p. 605.
- Art of indicating speeds of rotation. F. W. Wood. No. 1,364,673; Jan. 4; v. 282; p. 121.
- Artichoke-trimmer. R. W. Cline. No. 1,395,481; Nov. 1.
- Article and making the same, Molded. W. H. Kempton. No. 1,370,024; Mar. 1; v. 284; p. 61.
- Article-carrier. B. Borden. No. 1,367,654; Feb. 8; v. 283; p. 210.
- Article, Coated. J. C. Emhardt. No. 1,393,355; Oct. 11.
- Article - delivery mechanism. F. W. Danberg. No. 1,381,287; June 14; v. 287; p. 235.
- Article-holder. M. Gross. No. 1,385,443; July 26; v. 288; p. 653.
- Article-holder. M. W. Holcomb. No. 1,396,513; Nov. 8.
- Article-holder. J. H. Klenck. No. 1,372,959; Mar. 29; v. 284; p. 823.
- Article-holder. H. E. Robinson and D. L. Ordway. No. 1,378,979; May 24; v. 286; p. 678.
- Article-holder. E. G. Shreve. No. 1,380,932; June 7; v. 287; p. 116.
- Article of manufacture. H. I. Morris. No. 1,367,751; Feb. 8; v. 283; p. 229.
- Article of manufacture. G. Sykes. No. 1,391,428; Sept. 20; v. 290; p. 531.
- Article of merchandise. W. E. Boyce. No. 1,393,608; Oct. 11.
- Article, Wrapped. J. G. Jones. No. 1,377,156; May 3; v. 286; p. 148.
- Articles by disruptive conduction, Apparatus for treating. F. S. Smith. No. 1,399,161; Dec. 6.
- Articles having a systematic resemblance to a pattern, Manufacture of. E. J. Prindle. No. 1,388,301; Aug. 23; v. 289; p. 644.
- Articles having a systematic resemblance to a pattern, Manufacture of. E. J. Prindle. No. 1,388,302; Aug. 23; v. 289; p. 645.
- Articles, Machine for reversing small. B. N. Griffing. No. 1,385,000; July 19; v. 288; p. 492.
- Articulator. C. H. Downing. No. 1,372,012; Mar. 22; v. 284; p. 597.
- Articulator. J. W. Needles. No. 1,368,408; Feb. 15; v. 283; p. 403.
- Articulator, Anatomical. R. E. Campbell. No. 1,381,794; June 14; v. 287; p. 331.
- Artillery, Heavy. K. Dougan. No. 1,375,491; Apr. 19; v. 285; p. 511.
- Artillery, Mobile mount for heavy. M. Wildrick. No. 1,371,962; Mar. 15; v. 284; p. 530.
- Artist's color-box. C. N. Wernitz. No. 1,391,028; Sept. 20; v. 290; p. 450.
- Asbestos table-mat. G. R. Healey. No. 1,401,333; Dec. 27.
- Ash-conveying or like systems, Valve mechanism for. H. A. Poppenhusen and A. P. Strong. No. 1,393,905; Oct. 18.
- Ash-conveying system. A. P. Strong. No. 1,365,804; Jan. 18; v. 282; p. 423.
- Ash-conveying system, Pipe-support for. A. P. Strong. No. 1,370,615; Mar. 8; v. 284; p. 209.
- Ash-pan. J. S. Cameron. No. 1,377,463; May 10; v. 286; p. 264.
- Ash-pan. E. M. Gehrmann. No. 1,369,739; Feb. 22; v. 283; p. 702.
- Ash-pan. W. J. McCollom. No. 1,390,455; Sept. 13; v. 290; p. 271.
- Ash-pan. T. D. Woolson. No. 1,365,435; Jan. 11; v. 282; p. 312.
- Ash-receiver. L. W. Hurff. No. 1,364,556; Jan. 4; v. 282; p. 98.
- Ash-receiver. E. Schroedter. No. 1,401,282; Dec. 27.
- Ash-receiving device. C. Kraft. No. 1,381,880; June 14; v. 287; p. 348.
- Ash-remover. R. T. Hartnett. No. 1,365,781; Jan. 18; v. 282; p. 419.
- Ash-remover. S. B. Mott. No. 1,381,132; June 14; v. 287; p. 208.
- Ash-separator. H. T. Emery. No. 1,391,178; Sept. 20; v. 290; p. 480.
- Ash-sifter. J. B. Bailey. No. 1,373,379; Mar. 29; v. 284; p. 905.
- Ash-sifter. G. H. Peters and R. E. Shoars. No. 1,391,073; Sept. 20; v. 290; p. 459.
- Ash-sifter and garbage-can, Combination. G. F. Brown. No. 1,373,297; Mar. 29; v. 284; p. 889.
- Ash-sifting device. F. H. Lehman. No. 1,401,543; Dec. 27.
- Ash-tanks, Baffle-curtain for. H. A. Poppenhusen. No. 1,380,413; June 7; v. 287; p. 17.
- Asphalt, Manufacture of. H. R. Wardell. No. 1,385,511; July 26; v. 288; p. 672.
- Asphalt, Method and apparatus for handling. M. P. Wall. No. 1,378,637; May 17; v. 286; p. 540.
- Asphalt or like hydrocarbonaceous material, Fire-resisting. J. H. Young. No. 1,398,991; Dec. 6.
- Asphalt-package and making the same. F. C. Overbury and C. E. Rahr. No. 1,391,969; Sept. 27; v. 290; p. 714.
- Asphalt, Penetration-determining device for. L. M. Law. No. 1,366,572; Jan. 25; v. 282; p. 618.
- Asphalt-smoothing iron, Automatic. A. E. Hauck. No. 1,378,675; May 17; v. 286; p. 548.
- Assembling-cradle. C. W. Olson. No. 1,389,068; Aug. 30; v. 289; p. 851.
- Assembling device. E. R. Berry. No. 1,386,585; Aug. 2; v. 289; p. 121.
- Assembling-machine. C. E. Conner. No. 1,382,762; June 28; v. 287; p. 628.
- Assembling-machine. E. O. Lundin. No. 1,365,257; Jan. 11; v. 282; p. 277.
- Assembling-machine. L. O. Thomas. No. 1,392,858; Oct. 4.
- Assorting-machine. B. L. and E. B. Gifford. No. 1,397,955; Nov. 22.
- Assembling-tool, Motor-driven. C. Strand. No. 1,384,811; July 19; v. 288; p. 452.
- Atomizer and vaporizer. I. H. Wilsey. No. 1,386,297; Aug. 2; v. 289; p. 66.
- Atomizing and spraying device. E. J. McLean and S. W. McGavran. No. 1,395,965; Nov. 1.
- Atomizing-burner. H. A. Kunitz. No. 1,373,565; Apr. 5; v. 285; p. 36.
- Attaching-bracket. W. G. Pancoast and W. J. Grotenhuis. No. 1,379,778; May 31; v. 286; p. 902.
- Attaching device. T. O. Peterson. No. 1,386,202; Aug. 2; v. 289; p. 48.
- Attaching-ring. A. T. Fowles. No. 1,382,496; June 21; v. 287; p. 524.
- Attachment for internal-combustion motor. J. Shine. No. 1,376,294; Apr. 26; v. 285; p. 697.
- Attachment-plug, Electrical. J. G. Peterson. No. 1,367,562; Feb. 8; v. 283; p. 193.
- Audible signal. A. H. Dodd. No. 1,374,367; Apr. 12; v. 285; p. 232.
- Audion-amplifier, Selective. L. de Forest. No. 1,397,575; Nov. 22.
- Audiphone. A. Lalieff. No. 1,366,193; Jan. 18; v. 282; p. 499.
- Auger. R. W. Charlton. No. 1,389,578; Sept. 6; v. 290; p. 4.
- Auger and driver. J. G. Rowe, Jr. No. 1,375,066; Apr. 19; v. 285; p. 430.
- Auger, Earth-. F. W. Perry. No. 1,399,074; Dec. 6.
- Auger, Posthole-. O. W. Hensel. No. 1,401,780; Dec. 27.
- Auto adjustable sunshade. E. V. Powers and W. J. Boyd. No. 1,388,199; Aug. 23; v. 289; p. 623.
- Auto attachment. F. C. Miles. No. 1,392,432; Oct. 4.
- Auto baggage-carrier. E. H. Johnson. No. 1,388,044; Aug. 16; v. 289; p. 536.
- Auto-body. W. Linquist. No. 1,398,102; Nov. 22.
- Auto-carrier. J. M. Loveless. No. 1,392,777; Oct. 4.
- Auto direction-signal. J. Dewar. No. 1,380,546; June 7; v. 287; p. 42.
- Auto-door lock. J. W. Carlson. No. 1,372,276; Mar. 22; v. 284; p. 648.
- Auto-fork. H. A. Bean. No. 1,366,156; Jan. 18; v. 282; p. 492.
- Auto-headlights, Turning device for. A. Edwards. No. 1,369,917; Mar. 1; v. 284; p. 31.
- Auto-hood antirattling device. T. J. Martin. No. 1,375,257; Apr. 19; v. 285; p. 466.
- Auto-hoods, Anti-rattling device for. T. J. Martin. No. 1,365,932; Jan. 18; v. 282; p. 449.
- Auto-jack. S. Johnston. No. 1,383,545; July 5; v. 288; p. 59.
- Auto-jack and power mechanism. R. S. Swope. No. 1,378,632; May 17; v. 286; p. 540.
- Auto-jack and power plant. D. B. Baker. No. 1,373,585; Apr. 5; v. 285; p. 40.
- Auto-jack and safety-brake, Combined. W. Scott. No. 1,370,491; Mar. 1; v. 284; p. 140.
- Auto-jack, Automatic. J. Borghes and J. F. Stahley. No. 1,369,610; Feb. 22; v. 283; p. 676.
- Auto-license holder. P. J. Speicher. No. 1,390,732; Sept. 13; v. 290; p. 327.
- Auto-lift. T. J. Cordes. No. 1,401,463; Dec. 27.
- Auto-lifter. J. B. Storms. No. 1,383,169; June 28; v. 287; p. 705.
- Auto-light control. W. H. Stockton. No. 1,390,937; Sept. 13; v. 290; p. 369.
- Auto-light-controlling device. J. Zenishek. No. 1,387,579; Aug. 16; v. 289; p. 444.
- Auto-lock. R. F. Ingersoll. No. 1,380,478; June 7; v. 287; p. 29.
- Auto-locking device. G. Zinzel. No. 1,400,928; Dec. 20.
- Auto-radiator heater. G. H. Fritzsche. No. 1,377,621; May 10; v. 286; p. 293.
- Auto-radiators, Funnel attachment for. D. E. Williams. No. 1,365,362; Jan. 11; v. 282; p. 297.
- Auto safety-bumper. L. O. Kalman and A. S. Shapiro. No. 1,401,410; Dec. 27.
- Auto-shoe-expanding tool. C. A. Moore and D. K. Thornton. No. 1,389,837; Sept. 6; v. 290; p. 58.
- Auto-signal. J. E. Andregg. No. 1,384,112; July 12; v. 288; p. 226.
- Auto-signal. M. R. Gruender. No. 1,399,615; Dec. 6.



- Auto-signal. W. M. Howell. No. 1,391,383; Sept. 20; v. 290; p. 522.
- Auto-signal. J. R. Villard. No. 1,368,772; Feb. 15; v. 283; p. 475.
- Auto-signal, Safety-first. A. Philipoff. No. 1,372,369; Mar. 22; v. 284; p. 665.
- Auto signaling device. R. H. Gorsuch. No. 1,367,470; Feb. 1; v. 283; p. 117.
- Auto-spindle. D. E. Shae. No. 1,373,361; Mar. 29; v. 284; p. 902.
- Auto-spring roller. J. H. Pettit. No. 1,395,518; Nov. 1.
- Auto-tire lock. W. A. Rigal. No. 1,384,487; July 12; v. 288; p. 304.
- Auto-top window-frame. J. R. Sandford. No. 1,375,733; Apr. 26; v. 285; p. 589.
- Auto-towing device. J. R. Fleury. No. 1,368,619; Feb. 15; v. 283; p. 445.
- Auto-towing device. T. J. Weaver. No. 1,381,042; June 7; v. 287; p. 138.
- Auto-treadmill. C. E. Anderson. No. 1,393,600; Oct. 11.
- Auto-transporting device. J. M. McDermott. No. 1,375,403; Apr. 19; v. 285; p. 494.
- Auto-vehicles, Direction-indicator for. F. H. Radeleff. No. 1,401,187; Dec. 27.
- Auto warning-signal. J. H. Tubbergen. No. 1,395,461; Nov. 1.
- Auto-wheel. G. H. Crass. No. 1,375,830; Apr. 26; v. 285; p. 607.
- Auto-wheel protector. J. F. Halbach. No. 1,393,528; Oct. 11.
- Auto-wheel shoe. A. G. Hansen. No. 1,381,826; June 14; v. 287; p. 337.
- Auto-wheels, Mud-pull-out attachment for. E. C. Broward. No. 1,371,347; Mar. 15; v. 284; p. 411.
- Auto-window frame. H. P. Davis. No. 1,389,033; Aug. 30; v. 289; p. 844.
- Autos, Attachment for. C. H. Headley. No. 1,387,775; Aug. 16; v. 289; p. 483.
- Autos, Child-holder attachment for. G. C. Harris. No. 1,366,798; Jan. 25; v. 282; p. 663.
- Autos, Washing device for. W. H. Crosby. No. 1,394,282; Oct. 18.
- Autocar-drive, Auxiliary. E. J. Gould and W. Pressler. No. 1,401,690; Dec. 27.
- Autoclaves, Locking device for. K. Ensink. No. 1,382,489; June 21; v. 287; p. 522.
- Autographic register. L. Jensen. No. 1,386,709; Aug. 9; v. 289; p. 219.
- Autographic register. A. A. Johnson. No. 1,368,994; Feb. 15; v. 283; p. 516.
- Autographic register. A. W. Metzner. No. 1,394,436; Oct. 18.
- Autographic register. A. P. F. Pico. No. 1,394,785; Oct. 25.
- Autographic register. J. Q. Sherman. No. 1,372,460; Mar. 22; v. 284; p. 682.
- Autographic register. J. Q. Sherman. No. 1,385,587; July 26; v. 288; p. 688.
- Autographic register. J. Q. Sherman. No. 1,386,963; Aug. 9; v. 289; p. 270.
- Autographic register. J. Q. Sherman. No. 1,386,964; Aug. 9; v. 289; p. 271.
- Autographic register. J. Q. Sherman and C. R. Buschmeyer. No. 1,385,588; July 26; v. 288; p. 688.
- Autographic register. J. Q. Sherman and A. W. Metzner. No. 1,394,447; Oct. 18.
- Autographic register. W. C. Smith. No. 1,381,140; June 14; v. 287; p. 209.
- Autographic register. M. C. Stern. No. 1,378,628; May 17; v. 286; p. 539.
- Autographic register and recording-machine, Combined. H. M. Crouse and G. G. Newell. No. 1,366,718; Jan. 25; v. 282; p. 647.
- Autographic registers, Paper-feed device for. W. C. Shoup and W. E. Oliver. No. 1,396,070; Nov. 8.
- Autogovernator. S. T. Walkup. No. 1,378,740; May 17; v. 286; p. 561.
- Automatic brake. R. E. Dixon. No. 1,386,242; Aug. 2; v. 289; p. 56.
- Automatic call system for hotels. A. H. Heyroth. No. 1,390,907; Sept. 13; v. 290; p. 363.
- Automatic carrier. M. H. Loughbridge. No. 1,381,317; June 14; v. 287; p. 241.
- Automatic closure-controlling apparatus. G. S. O'Neil. No. 1,385,093; July 19; v. 288; p. 511.
- Automatic control for processing apparatus. C. H. Durkee. No. 1,385,609; July 26; v. 288; p. 692.
- Automatic coupling. R. F. Leitzke. No. 1,382,296; June 21; v. 287; p. 485.
- Automatic coupling. W. W. Phillips. No. 1,401,489; Dec. 27.
- Automatic crossing-gate. J. B. Atkins. No. 1,380,342; June 7; v. 287; p. 4.
- Automatic furnace. L. Garrison. No. 1,386,698; Aug. 9; v. 289; p. 217.
- Automatic gage. O. D. Brainard. No. 1,389,432; Aug. 30; v. 289; p. 923.
- Automatic hood-clamp. G. G. Marx. No. 1,385,568; July 26; v. 288; p. 684.
- Automatic jack for vehicles. C. F. & A. Brinkman. No. 1,373,549; Apr. 5; v. 285; p. 33.
- Automatic lowering-machine. A. D. Heyl. No. 1,386,253; Aug. 2; v. 289; p. 58.
- Automatic lubricator. S. T. Voll. No. 1,367,107; Feb. 1; v. 283; p. 45.
- Automatic machines, Driving mechanism for. J. P. Brophy. No. 1,389,433; Aug. 30; v. 289; p. 924.
- Automatic productive-hen-selecting apparatus. K. Arak. No. 1,390,860; Sept. 13; v. 290; p. 353.
- Automatic railway-switch. G. Freeze. No. 1,366,782; Jan. 25; v. 282; p. 660.
- Automatic regulating system. W. C. Korthals-Altes. No. 1,365,505; Jan. 11; v. 282; p. 325.
- Automatic releasing - coupling. E. J. Solomon. No. 1,391,422; Sept. 20; v. 290; p. 430.
- Automatic-stop oil-gage. D. D. Cureton, Jr. No. 1,395,095; Oct. 25.
- Automatic switch. D. W. Carlson. No. 1,391,167; Sept. 20; v. 290; p. 478.
- Automatic telephone system. C. L. Goodrum. No. 1,364,106; Jan. 4; v. 282; p. 11.
- Automatic trip-motion. M. Bernaudin. No. 1,385,241; July 19; v. 288; p. 541.
- Automatic ventilator. C. C. Shipp. No. 1,388,611; Aug. 23; v. 289; p. 705.
- Automatic weighing machine. E. H. Craig. No. 1,386,319; Aug. 2; v. 289; p. 71.
- Automatic wrench. G. E. Roberts. No. 1,391,581; Sept. 20; v. 290; p. 562.
- Automatically-controlled self-lowering jack. J. C. Kopf. No. 1,392,066; Sept. 27; v. 290; p. 733.
- Automatically-releasing coupling. A. B. Hulsebos and G. D. Besten. No. 1,384,195; July 12; v. 288; p. 243.
- Automatically-releasing coupling. H. B. Hulsebos and G. D. Besten. No. 1,384,258; July 12; v. 288; p. 256.
- Automaton. M. Gerberg, A. Hirsch, and M. Morgan. No. 1,387,482; Aug. 16; v. 289; p. 424.
- Automobile. V. Lancia. No. 1,372,148; Mar. 22; v. 284; p. 622.
- Automobile. F. O. Mackey. No. 1,364,292; Jan. 4; v. 282; p. 48.
- Automobile accessory. E. M. Rosenbluth. No. 1,389,901; Sept. 6; v. 290; p. 69.
- Automobile-actuated pump. W. G. Nymon. No. 1,391,968; Sept. 27; v. 290; p. 713.
- Automobile anti-glare attachment. J. C. Bartley and J. G. Ophardt. No. 1,368,997; Feb. 22; v. 283; p. 557.
- Automobile apron. G. W. Boynton. No. 1,374,353; Apr. 12; v. 285; p. 229.
- Automobile attachment. O. H. Brittain. No. 1,369,879; Mar. 1; v. 284; p. 24.
- Automobile attachment. C. M. Eiermann. No. 1,390,433; Sept. 13; v. 290; p. 266.
- Automobile attachment. J. Finch. No. 1,388,940; Aug. 30; v. 289; p. 825.
- Automobile attachment. J. M. Sears. No. 1,389,847; Sept. 6; v. 290; p. 58.
- Automobile attachment. W. Trabue. No. 1,386,913; Aug. 9; v. 289; p. 261.
- Automobile attachment. M. Von Babo. No. 1,389,717; Sept. 6; v. 290; p. 32.
- Automobile attachment for trailers. N. S. and W. A. Snyder. No. 1,367,166; Feb. 1; v. 283; p. 56.
- Automobile-bed. H. Wise. No. 1,371,830; Mar. 15; v. 284; p. 505.
- Automobile-bodies, Method and apparatus for protecting workmen sandpapering. C. Fessler. No. 1,392,870; Oct. 4.
- Automobile-bodies, Reinforcing. J. F. Godfrey. No. 1,388,250; Aug. 23; v. 289; p. 634.
- Automobile-body. W. L. Fry. No. 1,367,247; Feb. 1; v. 283; p. 73.
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- Automobile-body. J. Zygmant. No. 1,395,544; Nov. 1.
- Automobile-body and top therefor. C. T. Silver. No. 1,387,191; Aug. 9; v. 289; p. 315.
- Automobile-body construction. W. C. Cunningham. No. 1,377,167; May 3; v. 286; p. 150.
- Automobile-body construction. F. Trinca. No. 1,365,211; Jan. 11; v. 282; p. 268.
- Automobile-body construction, Convertible. C. D. Williams. No. 1,377,165; May 3; v. 286; p. 149.
- Automobile-body construction, Convertible. C. D. Williams. No. 1,377,166; May 3; v. 286; p. 150.
- Automobile-body, Convertible. F. Mitchell. No. 1,401,177; Dec. 27.
- Automobile-body mounting. J. P. Ravelo. No. 1,369,191; Feb. 22; v. 283; p. 595.
- Automobile-body with traveling and housekeeping conveniences. E. L. Martin. No. 1,392,955; Oct. 11.
- Automobile-boot. A. Chapman. No. 1,378,766; May 17; v. 286; p. 566.
- Automobile box or body, Extensible. P. L. Hedberg. No. 1,392,011; Sept. 27; v. 290; p. 723.
- Automobile-bracket. H. W. Dyer. No. 1,375,834; Apr. 26; v. 285; p. 608.
- Automobile-brake. E. V. Myers. No. 1,372,769; Mar. 29; v. 284; p. 783.
- Automobile-brake. A. A. Unruh. No. 1,392,987; Oct. 11.
- Automobile-brake adjuster. G. A. Gemmer. No. 1,397,373; Nov. 15.
- Automobile-brake attachment. A. G. Schindler. No. 1,383,490; July 5; v. 288; p. 48.
- Automobile-brake mechanism. S. D. Heller and L. Herron. No. 1,400,286; Dec. 13.



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- Automobile-buffer. T. M. Cox. No. 1,371,605; Mar. 15; v. 284; p. 463.  
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 Automobile direction-indicator and wheel-angle gage. J. Stano. No. 1,391,701; Sept. 27; v. 290; p. 659.  
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 Automobile direction-signal. J. J. Ahearn. No. 1,364,063; Jan. 4; v. 282; p. 3.  
 Automobile direction-signal. H. N. Crain. No. 1,367,355; Feb. 1; v. 283; p. 94.  
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 Automobile direction-signal. W. S. Harris, W. Cronan, and F. I. Jackson. No. 1,391,954; Sept. 27; v. 290; p. 710.  
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 Automobile-door handle. J. M. Yates. No. 1,372,734; Mar. 29; v. 284; p. 776.  
 Automobile-door latch. D. B. Lauzon. No. 1,394,681; Oct. 25.  
 Automobile-door latch. L. A. Schumaker. No. 1,393,911; Oct. 18.  
 Automobile door-panels, Making. H. J. Haon. No. 1,401,691; Dec. 27.  
 Automobile-doors, Latch mechanism for. E. G. Budd. No. 1,395,477; Nov. 1.  
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 Automobile-engine. J. Whitcomb and G. C. J. Gray. No. 1,380,088; May 31; v. 286; p. 962.  
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 Automobile-engine fuel-supply. J. Good. No. 1,365,980; Jan. 18; v. 282; p. 458.  
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 Automobile-engine lock. R. W. Yantis. No. 1,370,393; Mar. 1; v. 284; p. 120.  
 Automobile-engine stop. F. L. Cantrell. No. 1,377,002; May 3; v. 286; p. 119.  
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 Automobile explosion-engines, Attachment for carburetors of. R. N. Martz. No. 1,368,182; Feb. 8; v. 283; p. 311.  
 Automobile-fender. E. V. Allen. No. 1,398,957; Dec. 6.  
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- Automobile-fender. G. W. Dodson. No. 1,375,574; Apr. 19; v. 285; p. 527.
- Automobile-fender. C. C. Jensen and G. H. Irwin. No. 1,379,822; May 31; v. 286; p. 911.
- Automobile-fender. J. Mork. No. 1,372,895; Mar. 29; v. 284; p. 809.
- Automobile fender and radiator-protector, Combined. O. A. Ross. No. 1,374,394; Apr. 12; v. 285; p. 237.
- Automobile-fender brace. J. J. Kuntz. No. 1,375,594; Apr. 19; v. 285; p. 530.
- Automobile-fenders. Supporting attachment for. W. H. Rapeport. No. 1,366,934; Feb. 1; v. 283; p. 11.
- Automobile flow-line protector. A. W. Gibbons. No. 1,397,630; Nov. 22.
- Automobile footboard. H. L. Wilber. No. 1,367,221; Feb. 1; v. 283; p. 67.
- Automobile-frame. G. Fillisz. No. 1,372,497; Mar. 22; v. 284; p. 690.
- Automobile frame and spring. C. W. Kiltz. No. 1,372,699; Mar. 29; v. 284; p. 769.
- Automobile frame members and frame. S. I. Fekete and S. G. Baits. No. 1,399,201; Dec. 6.
- Automobile gasoline-lock. H. M. Mason. No. 1,388,280; Aug. 23; v. 289; p. 640.
- Automobile gasoline-lock, Three-valve. S. B. Andrzejewski. No. 1,390,859; Sept. 13; v. 290; p. 363.
- Automobile gasoline-shut-off apparatus. A. C. Keppler. No. 1,389,876; Sept. 6; v. 290; p. 64.
- Automobile gear-shift. B. S. Moore. No. 1,369,259; Feb. 22; v. 283; p. 608.
- Automobile-gear-shift lock. G. B. M. Gray. No. 1,367,873; Feb. 8; v. 283; p. 253.
- Automobile gear-lock. C. G. Trosien. No. 1,366,299; Jan. 18; v. 282; p. 520.
- Automobile gear-lock. C. G. Trosien. No. 1,366,300; Jan. 18; v. 282; p. 520.
- Automobile-headlight. G. A. Wendt. No. 1,391,229; Sept. 20; v. 290; p. 490.
- Automobile-headlight. C. G. Worley. No. 1,389,726; Sept. 6; v. 290; p. 33.
- Automobile-heater. T. Bovey. No. 1,400,518; Dec. 20.
- Automobile-heater. J. E. Hettinger. No. 1,369,809; Mar. 1; v. 284; p. 11.
- Automobile-heater. L. C. Milner. No. 1,397,648; Nov. 22.
- Automobile-heater. C. J. Patterson and O. J. Kilburn. No. 1,396,522; Nov. 8.
- Automobile-heating device. W. J. Slinger. No. 1,375,939; Apr. 26; v. 285; p. 629.
- Automobile hoisting and tilting apparatus. W. G. Morrison. No. 1,367,073; Feb. 1; v. 283; p. 38.
- Automobile-holsts. M. Price. No. 1,381,592; June 14; v. 287; p. 292.
- Automobile-holder, Adjustable. L. C. Nicoson. (Reissue.) No. 15,203; Oct. 4.
- Automobile-hood. C. T. Christianson. No. 1,381,166; June 14; v. 287; p. 214.
- Automobile-hood. P. Kern. No. 1,390,295; Sept. 13; v. 290; p. 240.
- Automobile-hood. W. A. King. No. 1,387,407; Aug. 9; v. 289; p. 359.
- Automobile-hood. L. Norvell. No. 1,365,121; Jan. 11; v. 282; p. 251.
- Automobile-hood attachment. J. P. Gerhart. No. 1,368,923; Feb. 15; v. 283; p. 503.
- Automobile-hood clip. F. W. Franklin. No. 1,397,759; Nov. 22.
- Automobile-hood fastener. A. Smith. No. 1,369,713; Feb. 22; v. 283; p. 696.
- Automobile-hood, Window-frame for. J. Soss. No. 1,364,459; Jan. 4; v. 282; p. 80.
- Automobile-hoods and the like, Window-frame for. J. Soss. No. 1,364,460; Jan. 4; v. 282; p. 81.
- Automobile-hoods, Latch for. F. Mathews. No. 1,368,276; Feb. 15; v. 283; p. 378.
- Automobile-hoods, Pivot support and retainer for. F. G. Scozzafava. No. 1,383,768; July 5; v. 288; p. 106.
- Automobile-hoods, Support for holding open the side members of. H. Deitz. No. 1,371,740; Mar. 15; v. 284; p. 488.
- Automobile-hoods, Window-frame for. J. Soss. No. 1,381,357; June 14; v. 287; p. 248.
- Automobile-hotel. L. L. Moe. No. 1,395,969; Nov. 1.
- Automobile ignition systems, Commutator device for. H. L. Smith. No. 1,382,864; June 28; v. 287; p. 647.
- Automobile instrument-boards, Instrument-mount for. F. G. Whittington. No. 1,371,337; Mar. 15; v. 284; p. 409.
- Automobile-jack. J. A. Adell. No. 1,394,263; Oct. 18.
- Automobile-jack. J. Bellay. No. 1,387,581; Aug. 16; v. 289; p. 445.
- Automobile-jack. S. M. Berger. No. 1,400,654; Dec. 20.
- Automobile-jack. F. D. Brown. No. 1,365,888; Jan. 18; v. 282; p. 440.
- Automobile-jack. A. E. Burnside. No. 1,392,297; Oct. 4.
- Automobile-jack. V. V. Curtis. No. 1,390,090; Sept. 6; v. 290; p. 107.
- Automobile-jack. R. F. Downey. No. 1,394,888; Oct. 25.
- Automobile-jack. S. Heymann. No. 1,386,499; Aug. 2; v. 289; p. 104.
- Automobile-jack. B. Mulvane. No. 1,380,405; June 7; v. 287; p. 15.
- Automobile-jack. V. Stawicki. No. 1,387,563; Aug. 16; v. 289; p. 441.
- Automobile-jack. T. E. Steers. No. 1,366,751; Jan. 25; v. 282; p. 653.
- Automobile-jacks, Alarm for. L. M. Fisher. No. 1,387,137; Aug. 9; v. 289; p. 305.
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- Automobile-lamp closures, Fastening for. E. A. Kuen. No. 1,391,327; Sept. 20; v. 290; p. 511.
- Automobile-license fastener. R. B. Shaw. No. 1,398,401; Nov. 29.
- Automobile-license light, Combination tail and. C. Ring. No. 1,390,927; Sept. 13; v. 290; p. 367.
- Automobile license-plate, Perpetual. R. Hardesty. No. 1,384,949; July 19; v. 288; p. 481.
- Automobile license-plates, Display device for. H. E. Robinson and R. M. Van Cleve. No. 1,393,971; Oct. 18.
- Automobile license-tag, Auxiliary. F. D. Johnson and H. Cullen. No. 1,398,489; Nov. 29.
- Automobile-lift. A. Gernar. No. 1,383,800; July 5; v. 288; p. 112.
- Automobile lift or hoist. H. L. Sarver. No. 1,369,194; Feb. 22; v. 283; p. 595.
- Automobile-lifter. L. L. Kellogg. No. 1,392,338; Oct. 4.
- Automobile-lifting device. H. F. Fienup. No. 1,380,548; June 7; v. 287; p. 42.
- Automobile-lifting device. P. C. Gibson. No. 1,398,186; Nov. 22.
- Automobile lifting mechanism. C. W. Bowers. No. 1,401,869; Dec. 27.
- Automobile-light. J. F. McGrother and J. S. Deen. No. 1,376,822; May 3; v. 286; p. 84.
- Automobile-lights. Dimming mechanism for. A. N. Coulson. No. 1,395,907; Nov. 1.
- Automobile lighting device. A. J. Chmurski. No. 1,395,039; Oct. 25.
- Automobile-lock. L. S. Baker and W. A. Tabor. No. 1,364,539; Jan. 4; v. 282; p. 96.
- Automobile-lock. J. W. Barwick. No. 1,375,994; Apr. 26; v. 285; p. 639.
- Automobile-lock. J. W. Barwick. No. 1,378,757; May 17; v. 286; p. 564.
- Automobile-lock. J. W. Barwick. No. 1,396,091; Nov. 8.
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- Automobile-lock. F. O. Boswell. No. 1,389,933; Sept. 6; v. 290; p. 76.
- Automobile-lock. F. O. Boswell. No. 1,395,220; Oct. 25.
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- Automobile-lock. R. Bruner. No. 1,384,594; July 12; v. 288; p. 327.
- Automobile-lock. C. F. Callahan. No. 1,400,415; Dec. 13.
- Automobile-lock. R. M. Catterson. No. 1,369,782; Mar. 1; v. 284; p. 6.
- Automobile-lock. S. B. Clayton. No. 1,395,906; Nov. 1.
- Automobile-lock. C. N. Colstad. No. 1,393,754; Oct. 18.
- Automobile-lock. J. M. Dement. No. 1,369,886; Mar. 1; v. 284; p. 25.
- Automobile-lock. H. D. Eilers. No. 1,377,819; May 10; v. 286; p. 332.
- Automobile-lock. H. E. Fenner. No. 1,395,337; Nov. 1.
- Automobile-lock. S. G. Gerlach. No. 1,389,499; Aug. 30; v. 289; p. 936.
- Automobile-lock. A. J. Gray and W. Hebern. No. 1,383,617; July 5; v. 288; p. 74.
- Automobile-lock. F. Haggett. No. 1,367,381; Feb. 1; v. 283; p. 99.
- Automobile-lock. R. J. Hale and W. T. Doyle. No. 1,375,386; Apr. 19; v. 285; p. 491.
- Automobile-lock. E. W. Hessel. No. 1,392,158; Sept. 27; v. 290; p. 752.
- Automobile-lock. C. Hosking and L. L. Hahn. No. 1,382,729; June 28; v. 287; p. 622.
- Automobile-lock. F. H. Howard. No. 1,392,499; Oct. 4.
- Automobile-lock. W. F. Jenkins. No. 1,376,885; May 3; v. 286; p. 97.
- Automobile-lock. T. J. Kehoe. No. 1,397,524; Nov. 22.
- Automobile-lock. C. Knapp. No. 1,391,390; Sept. 20; v. 290; p. 523.
- Automobile-lock. R. N. Lawrence. No. 1,392,772; Oct. 4.
- Automobile-lock. H. N. Lee. No. 1,390,913; Sept. 13; v. 290; p. 364.
- Automobile-lock. F. B. Leonard. No. 1,393,552; Oct. 11.
- Automobile-lock. F. W. G. Lieberg. No. 1,371,384; Mar. 15; v. 284; p. 419.
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- Automobile-lock. R. Luplow. No. 1,398,905; Nov. 29.
- Automobile-lock. D. MacTavish. No. 1,366,697; Jan. 25; v. 282; p. 643.
- Automobile-lock. E. B. Mellenthin. No. 1,365,841; Jan. 18; v. 282; p. 431.
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- Automobile-lock. L. M. Sells and W. Hebern. No. 1,365,858; Jan. 18; v. 282; p. 434.
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- Automobile-lock. J. K. Strosnider. No. 1,377,224; May 10; v. 286; p. 217.
- Automobile-lock. E. A. Tanner. No. 1,382,570; June 21; v. 287; p. 537.
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- Automobile-lock. C. G. Trosien. No. 1,397,564; Nov. 22.
- Automobile-lock. E. M. White. No. 1,366,229; Jan. 18; v. 282; p. 506.
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- Automobile lock and thief-trap, Combination. B. H. Mann. No. 1,399,782; Dec. 13.
- Automobile-lock, Combination. A. H. Buckley. No. 1,377,307; May 10; v. 286; p. 234.
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- Automobile-locking device. A. H. Larduskey. No. 1,387,651; Aug. 16; v. 289; p. 459.
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- Automobile-mats to running-boards, Device for attaching. F. La Croix and E. A. Loomis. No. 1,366,570; Jan. 25; v. 282; p. 618.
- Automobile-mirror. C. Mee. No. 1,376,377; Apr. 26; v. 285; p. 712.
- Automobile-motors and other oil-engines, Air and fuel heater for. J. N. Wood and F. Roewekamp. No. 1,391,709; Sept. 27; v. 290; p. 661.
- Automobile number-plate. R. R. Melton. No. 1,397,136; Nov. 15.
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- Automobile ornament. J. R. Bower. No. 1,400,017; Dec. 13.
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- Automobile-polish. P. A. Rally. No. 1,376,228; Apr. 26; v. 285; p. 684.
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- Automobile power attachment. W. E. Briggs. No. 1,372,295; Mar. 29; v. 284; p. 889.
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- Automobile-pull-out mechanism. C. G. Halvorson. No. 1,380,205; May 31; v. 286; p. 984.
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- Automobile-pump. J. G. Perrin. No. 1,389,782; Sept. 6; v. 290; p. 45.
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- Automobile-radiator. S. A. Bates. No. 1,368,098; Feb. 8; v. 283; p. 294.
- Automobile-radiator. J. B. Beam. No. 1,387,755; Aug. 16; v. 289; p. 480.
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- Automobile-radiator. O. Froberg. No. 1,389,749; Sept. 6; v. 290; p. 38.
- Automobile-radiator. A. Fürst. No. 1,398,774; Nov. 29.
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- Automobile-radiator. F. W. Martin. No. 1,865,930; Jan. 18; v. 282; p. 448.
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- Automobile-radiator cap. W. M. Erwin and W. F. Stretch. No. 1,389,495; Aug. 30; v. 289; p. 936.
- Automobile-radiator cap. G. M. Fuller. No. 1,369,646; Feb. 22; v. 283; p. 683.
- Automobile-radiator-cap lock. E. E. Keough. No. 1,367,819; Feb. 8; v. 283; p. 243.
- Automobile-radiator heater. U. V. O'Daniel. No. 1,391,270; Sept. 20; v. 290; p. 499.
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- Automobile-radiators, Device for controlling the temperature of. R. L. Pate. No. 1,392,521; Oct. 4.
- Automobile-radiators, Device for controlling the temperature of. R. L. Pate. No. 1,392,522; Oct. 4.
- Automobile-radiators, Heater for. A. and H. Friebe. No. 1,388,800; Aug. 23; v. 289; p. 644.
- Automobile-radiators, Indicating instrument for. J. Kleidman. No. 1,387,890; Aug. 16; v. 289; p. 507.
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- Automobile-rim tool, Demountable. O. M. Rice. No. 1,374,031; Apr. 5; v. 285; p. 127.
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- Automobile robe-rail. P. F. Denning. No. 1,394,287; Oct. 18.
- Automobile running-board. C. Stephenson. No. 1,364,330; Jan. 4; v. 282; p. 55.
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- Automobile running-boards, Demountable baggage-rack for. C. M. Buebke. No. 1,393,200; Oct. 11.
- Automobile safety-crank. O. S. Strickland and G. W. Wood. No. 1,379,320; May 24; v. 286; p. 743.
- Automobile-seat. J. H. McCollough, Jr. No. 1,379,270; May 24; v. 286; p. 733.
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- Automobile-seat cushion. L. Doll. No. 1,382,596; June 21; v. 287; p. 543.
- Automobile service, Dispensing apparatus for. J. H. Hecker. No. 1,379,562; May 24; v. 286; p. 789.
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- Automobile-signal. H. C. Anderson. No. 1,391,523; Sept. 20; v. 290; p. 551.
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- Automobile-signal. C. Durning. No. 1,397,947; Nov. 22.
- Automobile-signal. M. M. Dyer. No. 1,378,372; May 17; v. 286; p. 189.
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- Automobile signal. C. H. Landis. No. 1,383,312; July 5; v. 288; p. 11.
- Automobile-signal. L. A. Larson. No. 1,368,812; Feb. 15; v. 283; p. 482.
- Automobile-signal. G. Lockhart. No. 1,389,673; Sept. 6; v. 290; p. 23.
- Automobile-signal. A. J. Loehr. No. 1,365,514; Jan. 11; v. 282; p. 327.
- Automobile-signal. D. F. McGill. No. 1,374,306; Apr. 12; v. 285; p. 220.
- Automobile-signal. L. J. Miller and W. W. Christian. No. 1,390,150; Sept. 6; v. 290; p. 119.
- Automobile-signal. A. E. Payette and E. Tetrault. No. 1,374,861; Apr. 12; v. 285; p. 328.
- Automobile-signal. F. Pekar. No. 1,387,611; Aug. 16; v. 289; p. 451.
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 Automobile-steering-post lock. J. A. Olbon. No. 1,366,021; Jan. 18; v. 282; p. 466.  
 Automobile-steering-post lock, Combination. B. T. Tervin. No. 1,368,905; Feb. 15; v. 283; p. 383.  
 Automobile steering-posts, Auxiliary steering means for. E. P. Le Compte. No. 1,371,911; Mar. 15; v. 284; p. 521.  
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- Automobiles and other vehicles, Shock-absorber for. J. Reif. No. 1,399,795; Dec. 13.
- Automobiles and other vehicles, Spring-suspension for. H. B. Syler. No. 1,393,812; Nov. 29.
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- Automobiles and trucks, Fender for. G. Steenstra. No. 1,377,736; May 10; v. 286; p. 315.
- Automobiles, Anti-glare and rain attachment for. A. H. Pape. No. 1,366,022; Jan. 18; v. 282; p. 466.
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- Automobiles, Auxiliary back-rest for. J. L. Fitzgerald. No. 1,377,823; May 10; v. 286; p. 333.
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- Automobiles, Bed structure for. H. Sawyer. No. 1,370,672; Mar. 8; v. 284; p. 219.
- Automobiles, Brake-actuating mechanism for. J. C. C. and H. Williams. No. 1,396,488; Nov. 8.
- Automobiles, Brake attachment for. F. R. Peterson. No. 1,389,159; Aug. 30; v. 289; p. 869.
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- Automobiles, Chock-block for. F. Arn. No. 1,400,785; Dec. 20.
- Automobiles, Clutch control for. F. S. Maynard. No. 1,390,148; Sept. 6; v. 290; p. 119.
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- Automobiles, Combination-lock for. M. T. Dowdy. No. 1,393,676; Oct. 11.
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- Automobiles, Controlling device for petcocks of. H. Schumacher. No. 1,381,670; June 14; v. 287; p. 307.
- Automobiles, Convertible seat for. L. B. Welch. No. 1,369,150; Feb. 22; v. 283; p. 587.
- Automobiles, Convertible seat for. L. B. Welch. No. 1,387,083; Aug. 9; v. 289; p. 295.
- Automobiles, Cot for. H. C. Anderson. No. 1,378,001; May 17; v. 286; p. 419.
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- Automobiles, Curtain-support for. G. W. Scott. No. 1,391,417; Sept. 20; v. 290; p. 529.
- Automobiles, Deafening attachment for. L. E. and W. H. Clawson. No. 1,370,880; Mar. 8; v. 284; p. 259.
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- Automobiles, Detachable truck-body for. J. K. Shannon. No. 1,384,162; July 12; v. 288; p. 286.
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- Automobiles, Device for protecting the ignition system of. J. H. Bloodgood. No. 1,381,394; June 14; v. 287; p. 255.
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- Automobiles, Direction-indicating signal for. A. E. Bel-ler. No. 1,387,916; Aug. 16; v. 289; p. 512.
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- Automobiles, Direction-indicator for closed. W. W. Bulmstroff. No. 1,379,245; May 24; v. 286; p. 728.
- Automobiles, Direction-signal for. J. Law. No. 1,376,710; May 3; v. 286; p. 62.
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- Automobiles, Disk wheel for. J. T. Pickering. No. 1,393,729; Oct. 11.
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- Automobiles, Electric-motor generator for starting and lighting gasoline-. F. B. Rae. No. 1,375,319; Apr. 19; v. 285; p. 478.
- Automobiles, Electric starting and lighting apparatus for. W. B. Moses. No. 1,380,113; May 31; v. 286; p. 967.
- Automobiles, Electric switch for. F. W. Rees. No. 1,365,194; Jan. 11; v. 282; p. 265.
- Automobiles, Electrical system for. B. D. Kunkle. No. 1,374,586; Apr. 12; v. 285; p. 275.
- Automobiles, Emergency-axle for. F. O. Lewis. No. 1,380,870; June 7; v. 287; p. 105.
- Automobiles, Emergency device for use with. G. S. Stuart. No. 1,379,485; May 24; v. 286; p. 774.
- Automobiles, Extension-light for. T. A. E. Errington. No. 1,398,011; Nov. 22.
- Automobiles, Fender attachment for. P. J. Quartana. No. 1,397,903; Nov. 22.
- Automobiles, Floor-board clamp for. C. H. Rockey. No. 1,395,359; Nov. 1.
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- Automobiles, Folding sleeping-cot especially adapted for. G. H. Blake. No. 1,372,117; Mar. 22; v. 284; p. 616.
- Automobiles, Folding table and lunch-case for. P. V. Kelley. No. 1,378,355; May 17; v. 286; p. 486.
- Automobiles, Folding top for. G. E. Madison. No. 1,396,868; Nov. 15.
- Automobiles, Foot-board holder for. J. P. Leonard. No. 1,396,856; Nov. 15.
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- Automobiles, Foot-rest for. S. L. Myatt. No. 1,389,209; Aug. 30; v. 289; p. 879.
- Automobiles, Footrest for. H. F. Livermore. No. 1,366,737; Jan. 25; v. 282; p. 651.
- Automobiles, Front drive and steering wheel for. B. F. Gregory and W. H. Craun. No. 1,380,796; June 7; v. 287; p. 90.
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- Automobiles, Fuel-feeding system for. W. H. Muzzy. No. 1,385,337; July 19; v. 288; p. 559.
- Automobiles, Gear-shift-lever lock for. C. W. Mueller. No. 1,389,316; Aug. 30; v. 289; p. 900.
- Automobiles, Glare-shade for. E. Horn. No. 1,385,131; July 19; v. 288; p. 519.
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- Automobiles, Hot-air heater for. B. E. Hagen. No. 1,400,815; Dec. 20.
- Automobiles, Housing for transmission-gears and axles of. T. E. Jr., and J. B. Murray. No. 1,384,480; July 12; v. 288; p. 302.
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- Automobiles, Indicating-signal for. J. D. Mulvehill. No. 1,374,944; Apr. 19; v. 285; p. 405.
- Automobiles, Intake-heater for. E. R. Taber. No. 1,376,980; May 3; v. 286; p. 114.
- Automobiles, Latch for hoods of. F. Mathews. No. 1,396,704; Nov. 8.
- Automobiles, Lighting arrangement for. F. W. Hines. No. 1,401,602; Dec. 27.
- Automobiles, Lighting device for. R. B. Benjamin. No. 1,376,067; Apr. 26; v. 285; p. 653.
- Automobiles, Liquid gage and indicator used with gasoline-tanks for. F. Q. Rast. No. 1,371,395; Mar. 15; v. 284; p. 422.
- Automobiles, Lock for. W. H. Godbey, Jr. No. 1,377,124; May 3; v. 286; p. 142.
- Automobiles, Lock for steering-wheels of. W. E. Recher. No. 1,368,054; Feb. 8; v. 283; p. 286.
- Automobiles, Lock mechanism for ignition-control and theft-alarm device for. F. F. Kuhn. No. 1,366,085; Jan. 18; v. 282; p. 478.
- Automobiles, Locking device for. A. F. Broderick. No. 1,376,999; May 3; v. 286; p. 118.
- Automobiles, Locking device for. C. W. Dunn. No. 1,382,179; June 21; v. 287; p. 462.
- Automobiles, Locking device for. E. F. Jones. No. 1,394,021; Oct. 18.
- Automobiles, Locking device for. W. Ludwig. No. 1,382,300; June 21; v. 287; p. 486.
- Automobiles, Locking device for. F. G. Siwecki. No. 1,400,243; Dec. 13.
- Automobiles, Locking device for. J. M. White. No. 1,394,872; Oct. 25.
- Automobiles, Locking device for. J. I. Winchell. No. 1,366,992; Feb. 1; v. 283; p. 22.
- Automobiles, Locking device for. G. Wonsowicz. No. 1,368,676; Feb. 15; v. 283; p. 466.
- Automobiles, Locking means for. H. P. Taylor. No. 1,369,308; Feb. 22; v. 283; p. 617.
- Automobiles, Locking-rail for. P. Brazeau. No. 1,375,553; Apr. 19; v. 285; p. 523.
- Automobiles, Low-level oil-signal for. R. G. Mitchell. No. 1,364,295; Jan. 4; v. 282; p. 49.
- Automobiles, Luggage-carrier for. J. B. Rice. No. 1,390,387; Sept. 13; v. 290; p. 258.
- Automobiles, Manifold-heater for. H. J. Wheeler. No. 1,388,538; Aug. 23; v. 289; p. 691.
- Automobiles, Master-jack and stand for. E. L. Barrett. No. 1,370,002; Mar. 1; v. 284; p. 47.
- Automobiles, Means for operating the steering-posts of. E. P. Le Compte. No. 1,388,582; Aug. 23; v. 289; p. 700.
- Automobiles, Means for use in installing transmission-bands for. W. Harper. No. 1,376,690; May 3; v. 286; p. 58.
- Automobiles, Mechanical rectifier for magnetos of. H. F. Slocum. No. 1,370,230; Mar. 4; v. 284; p. 90.
- Automobiles, Metal double-decking buck for. E. S. Evans. No. 1,395,225; Oct. 25.
- Automobiles, Mirror for. B. J. Hubbard. No. 1,380,910; June 7; v. 287; p. 112.
- Automobiles, Mowing attachment for. A. E. Cook. No. 1,372,339; Mar. 22; v. 284; p. 660.
- Automobiles, Mud-guard for. B. Kawasoye. No. 1,372,353; Mar. 22; v. 284; p. 662.
- Automobiles, Nonskid device for. A. Erat. No. 1,401,245; Dec. 27.
- Automobiles, Overhead and underground storage for. F. Y. McKinstry. No. 1,394,999; Oct. 25.
- Automobiles, Package-holding attachment for. M. Teich. No. 1,365,353; Jan. 11; v. 282; p. 296.
- Automobiles, Parking-device attachment for. A. W. Swanson. No. 1,387,626; Aug. 16; v. 289; p. 454.
- Automobiles, &c., Parking-light for. A. R. Gross. No. 1,380,058; May 31; v. 286; p. 956.
- Automobiles, Pedal attachment for. H. D. Hathaway. No. 1,379,561; May 24; v. 286; p. 788.
- Automobiles, Pedal for operating accelerators of. A. A. Williams. No. 1,395,781; Nov. 1.
- Automobiles, Permutation-lock for. H. E. Dakin. No. 1,385,343; July 19; v. 288; p. 561.
- Automobiles, Power attachment for. W. C. A. Grant. No. 1,371,618; Mar. 15; v. 284; p. 465.
- Automobiles, Power attachment for. W. J. and K. S. McKelvy. No. 1,364,773; Jan. 4; v. 282; p. 140.
- Automobiles, Power-transmission attachment for. G. A. Bonelli. No. 1,399,738; Dec. 13.
- Automobiles, Protecting appliance for use on. J. R. Oishei. No. 1,400,623; Dec. 20.
- Automobiles, Pulley attachment for. L. V. McLaughlin. No. 1,378,703; May 17; v. 286; p. 554.
- Automobiles, Pulling apparatus for. J. H. Wood. No. 1,388,683; Aug. 23; v. 289; p. 719.
- Automobiles, Radiator-drawing attachment for. C. J. Krenzer. No. 1,393,549; Oct. 11.
- Automobiles, &c., Radiator for. H. N. Jensen. No. 1,396,663; Nov. 8.
- Automobiles, Radiator for. F. M. Oplitz. No. 1,371,996; Mar. 15; v. 284; p. 537.
- Automobiles, Rain and sun shield for. E. L., H. T., and S. J. Stanton. No. 1,384,574; July 12; v. 288; p. 322.
- Automobiles, Rainproof hood-cover for. G. F. Mansfield. No. 1,399,358; Dec. 6.
- Automobiles, Rear-bumper bracket for. G. S. MacLeod. No. 1,392,428; Oct. 4.
- Automobiles, Rear bumper for. F. G. Whittington. No. 1,379,791; May 31; v. 286; p. 905.
- Automobiles, Rear light for. C. S. Swaney. No. 1,394,046; Oct. 18.
- Automobiles, Reflecting device for. H. B. Davidson. No. 1,372,606; Mar. 22; v. 284; p. 611.
- Automobiles, Register adapted to be applied to floors or footboard of. C. A. Dean. No. 1,387,131; Aug. 9; v. 289; p. 303.
- Automobiles, Removable steering-wheel for. C. R. Blood. No. 1,378,516; May 17; v. 286; p. 479.
- Automobiles, Robe-holder for. R. Schoell. No. 1,375,611; Apr. 19; v. 285; p. 533.
- Automobiles, Running-boards for. J. T. Hayne. No. 1,382,506; June 21; v. 287; p. 525.
- Automobiles, Running-boards for. J. T. Hayne. No. 1,382,507; June 21; v. 287; p. 526.
- Automobiles, Safety device for. W. P. Dwyer. No. 1,397,043; Nov. 15.
- Automobiles, Safety device for. E. L. Field and F. B. Grabill. No. 1,365,235; Jan. 11; v. 282; p. 273.
- Automobiles, Safety device for. W. Meyer. No. 1,394,437; Oct. 18.
- Automobiles, Safety device for. M. Thlery. No. 1,388,981; Aug. 30; v. 289; p. 833.
- Automobiles, Safety fender for. T. F. Buck. No. 1,387,100; Aug. 9; v. 289; p. 298.
- Automobiles, Safety foot-throttle for. E. J. Currier. No. 1,397,798; Nov. 22.
- Automobiles, Safety-guard for. J. Wilhelm. No. 1,378,988; May 24; v. 286; p. 680.
- Automobiles, Safety-lock for. H. M. Brower. No. 1,383,904; July 5; v. 288; p. 134.
- Automobiles, Sander for. A. A. Roth. No. 1,366,594; Jan. 25; v. 282; p. 622.
- Automobiles, Sanding device for. P. R. Shaller. No. 1,387,620; Aug. 16; v. 289; p. 453.



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- Automobiles, Sash-lifting device for. O. W. Whitehead. No. 1,390,003; Sept. 6; v. 290; p. 89.
- Automobiles, Shipping-standard for. F. H. Curry. No. 1,396,360; Nov. 8.
- Automobiles, Shipping-support for. J. N. Duncan. No. 1,388,244; Aug. 23; v. 289; p. 633.
- Automobiles, Side curtain for. L. and C. Gillig. No. 1,388,425; Aug. 23; v. 289; p. 670.
- Automobiles, Side window for. C. S. Robertson. No. 1,383,027; June 28; v. 287; p. 678.
- Automobiles, Signal device for. W. P. Carroll. No. 1,398,677; Nov. 29.
- Automobiles, Signal device for. G. Bardi. No. 1,381,268; June 14; v. 287; p. 232.
- Automobiles, Signal-indicator for. J. G. Lucas. No. 1,385,016; July 19; v. 288; p. 495.
- Automobiles, Signaling device for. W. L. Hewes. No. 1,391,830; Sept. 27; v. 290; p. 685.
- Automobiles, Signaling device for. A. McLaren. No. 1,399,136; Dec. 6.
- Automobiles, Speed-changing transmission for. M. J. Huggins. No. 1,372,227; Mar. 22; v. 284; p. 638.
- Automobiles, Spring-bumper for. W. G. Cox. No. 1,398,177; Nov. 22.
- Automobiles, Spring device for. J. T. Roberts. No. 1,376,040; Apr. 26; v. 285; p. 648.
- Automobiles, Spring-equalizer attachment for. B. F. Hardesty. No. 1,388,461; Aug. 23; v. 289; p. 678.
- Automobiles, Spring-hanger for. C. E. Starr. No. 1,383,579; July 5; v. 288; p. 66.
- Automobiles, Spring mechanism for front axles for. H. H. Howard and S. Furmidge. No. 1,400,604; Dec. 20.
- Automobiles, Spring-support for. J. Klein. No. 1,371,904; Mar. 15; v. 284; p. 519.
- Automobiles, Spring suspension for. C. Fredriksen. No. 1,394,724; Oct. 25.
- Automobiles, Spring suspension for. W. L. Reit. No. 1,364,520; Jan. 4; v. 282; p. 92.
- Automobiles, Spring suspension for. J. Sunnen. No. 1,384,167; July 12; v. 288; p. 237.
- Automobiles, &c., Starter, lights, and alarm control device for. W. H. Collier. No. 1,388,933; Aug. 30; v. 289; p. 824.
- Automobiles, Starting mechanism for. F. Conrad. No. 1,385,983; Aug. 2; v. 289; p. 4.
- Automobiles, Starting mechanism for. O. S. Schairer. No. 1,370,051; Mar. 1; v. 284; p. 56.
- Automobiles, Steering attachment for. E. J. Balmos. No. 1,396,722; Nov. 15.
- Automobiles, Steering device for. J. T. Duncan. No. 1,401,398; Dec. 27.
- Automobiles, Steering device for towing. O. A. Jahnke. No. 1,372,818; Mar. 29; v. 284; p. 793.
- Automobiles, Steering mechanism for. F. I. Tone. No. 1,396,604; Nov. 8.
- Automobiles, Step-plate for. F. H. Stanwood. No. 1,373,366; Mar. 29; v. 284; p. 902.
- Automobiles, Stop device for use with change-speed pedals of. K. K. McLeod. No. 1,381,721; June 14; v. 287; p. 318.
- Automobiles, Storm-top for. S. Roane. No. 1,366,280; Jan. 18; v. 282; p. 516.
- Automobiles, Storm and sun guard for. J. H. Whitish. No. 1,401,382; Dec. 27.
- Automobiles, Subradius rod for. A. E. Bosley. No. 1,366,354; Jan. 25; v. 282; p. 573.
- Automobiles, Sun and rain shield for. M. C. La Bonte. No. 1,367,152; Feb. 1; v. 283; p. 54.
- Automobiles, Sun and rain shield for. W. H. Damon. No. 1,394,254; Oct. 18.
- Automobiles, Sun-shield for. H. J. Doyle. No. 1,372,492; Mar. 22; v. 284; p. 689.
- Automobiles, Switch for stop-signals for. A. L. Koenig. No. 1,383,821; July 5; v. 288; p. 117.
- Automobiles, System of locking. T. J. Coo. No. 1,397,484; Nov. 15.
- Automobiles, Temperature-indicator for. H. A. Rishel. No. 1,393,968; Oct. 18.
- Automobiles, Theft-alarm for. A. Krastin. No. 1,368,734; Feb. 15; v. 283; p. 467.
- Automobiles, Traction-block for. A. E. Snow. No. 1,366,031; Jan. 18; v. 282; p. 468.
- Automobiles, Tractor attachment for. J. D. Caldwell. No. 1,389,576; Sept. 6; v. 290; p. 4.
- Automobiles, Tractor attachment for. L. G. Lincecum. No. 1,375,791; Apr. 26; v. 285; p. 599.
- Automobiles, Traffic-signal for. A. W. Fernans. No. 1,368,915; Feb. 15; v. 283; p. 502.
- Automobiles, Traffic-signal for. I. C. Schrag. No. 1,388,900; Aug. 30; v. 289; p. 817.
- Automobiles, Transmission-gear for. W. F. Penrod. No. 1,384,481; July 12; v. 288; p. 302.
- Automobiles, Transmission-lock for. J. S. Michael. No. 1,368,822; Feb. 15; v. 283; p. 484.
- Automobiles, Transmission mechanism for. W. I. Wheeler. No. 1,374,265; Apr. 12; v. 285; p. 212.
- Automobiles, Trespass-sign for. M. W. Marsden. No. 1,397,770; Nov. 22.
- Automobiles, Truck and tractor attachment for. S. Glenn. No. 1,375,000; Apr. 19; v. 285; p. 416.
- Automobiles, Truck attachment for. J. Anderson. No. 1,399,597; Dec. 6.
- Automobiles, Valve-lifter for. G. G. Patterson. No. 1,368,285; Feb. 15; v. 283; p. 379.
- Automobiles, Wind-shields for. H. W. Conner. No. 1,364,834; Jan. 4; v. 282; p. 151.
- Automotive equipment, Silencer for. I. K. Rystedt. No. 1,399,157; Dec. 6.
- Autosignaling device. H. A. Wright and C. W. Kennedy. No. 1,379,503; May 24; v. 286; p. 778.
- Autotruck and wagon dump, Combination. P. W. Mann. No. 1,390,368; Sept. 13; v. 290; p. 253.
- Autovehicle-signal. R. C. Bodle. No. 1,366,865; Jan. 25; v. 282; p. 676.
- Autovehicles, Grip-chain for. N. E. Montgomery. No. 1,387,429; Aug. 9; v. 289; p. 363.
- Auxiliary air-feed. P. E. Kline. No. 1,385,213; July 19; v. 288; p. 536.
- Auxiliary arch-bar. P. Swanson. No. 1,393,716; Oct. 11.
- Auxiliary clearance. W. C. Brown. No. 1,364,070; Jan. 4; v. 282; p. 4.
- Auxiliary fuel-tank. C. G. Branigan. No. 1,382,407; June 21; v. 287; p. 506.
- Auxiliary jack. N. S. Snyder. No. 1,367,167; Feb. 1; v. 283; p. 57.
- Auxiliary lock. R. D. Paterson. No. 1,398,465; Nov. 29.
- Auxiliary protector. F. W. Billings. No. 1,391,665; Sept. 27; v. 290; p. 652.
- Auxiliary seat. W. J. Diehl. No. 1,397,089; Nov. 15.
- Auxiliary spring. P. R. Neff. No. 1,377,913; May 10; v. 286; p. 350.
- Awl. J. Danielson. No. 1,386,320; Aug. 2; v. 289; p. 71.
- Awning. L. Goudie. No. 1,386,860; Aug. 9; v. 289; p. 250.
- Awning. W. E. Metzger. No. 1,400,089; Dec. 13.
- Awning-fixture. C. H. Talley. No. 1,386,446; Aug. 2; v. 289; p. 94.
- Awning-support. J. O. Nodland. No. 1,377,784; May 10; v. 286; p. 325.
- Awnings, Fastening device for. O. Öström. No. 1,376,351; Apr. 26; v. 285; p. 707.
- Awnings, Weather-shield for spring-shade. E. Gray. No. 1,390,527; Sept. 13; v. 290; p. 286.
- Ax. W. R. Munzer. No. 1,378,973; May 24; v. 286; p. 677.
- Ax and similar tool. G. H. Fraser. No. 1,364,269; Jan. 4; v. 282; p. 43.
- Ax-heads, Attachment for. C. E. Manners. No. 1,388,475; Aug. 23; v. 289; p. 680.
- Axle. C. S. Dahlquist. No. 1,396,025; Nov. 8.
- Axle. W. C. Keys. No. 1,377,589; May 10; v. 286; p. 287.
- Axle. G. F. Morgan. No. 1,398,240; Nov. 29.
- Axle. G. F. Morgan. No. 1,399,069; Dec. 6.
- Axle. G. J. Thomas. No. 1,373,033; Mar. 29; v. 284; p. 837.
- Axle. J. G. Utz and T. Zimmerman. No. 1,370,073; Mar. 1; v. 284; p. 60.
- Axle. T. Zimmermann. No. 1,388,397; Aug. 23; v. 289; p. 664.
- Axle adjustment device, Stub-. O. E. Kopplin. No. 1,396,128; Nov. 8.
- Axle and hub, Emergency rear wheel. G. E. Lutsey. No. 1,395,921; Nov. 1.
- Axle and wheel, Emergency. I. J. Helseth. No. 1,372,813; Mar. 29; v. 284; p. 792.
- Axle-assembly. J. F. Fierke. No. 1,367,869; Feb. 8; v. 283; p. 252.
- Axle assembly, Front-. H. Ford. No. 1,377,674; May 10; v. 286; p. 303.
- Axle assembly, Rear-. A. M. Leoni. No. 1,385,082; July 19; v. 288; p. 509.
- Axle attachment, Emergency. J. A. Haffner. No. 1,379,558; May 24; v. 286; p. 788.
- Axle, Ball-bearing. F. J. Cochran. No. 1,382,064; June 21; v. 287; p. 441.
- Axle-boxes. R. C. Osgood. No. 1,399,398; Dec. 6.
- Axle boxes, Dust-guard for car-. A. Currie. No. 1,391,998; Sept. 27; v. 290; p. 721.
- Axle construction. L. A. Hotchkiss and P. W. Stocum. No. 1,377,685; May 10; v. 286; p. 305.
- Axle construction. E. C. Newcomb. No. 1,381,218; June 14; v. 287; p. 223.
- Axle construction. T. Zimmerman. No. 1,369,210; Feb. 22; v. 283; p. 599.
- Axle construction, Driving-. W. P. Frey. No. 1,400,949; Dec. 20.
- Axle construction, Rear-. W. D. Werts. No. 1,372,381; Mar. 22; v. 284; p. 668.
- Axle device, Front-. G. and G. H. Amonsens. No. 1,375,439; Apr. 19; v. 285; p. 501.
- Axle, Differential. I. Martin. No. 1,394,855; Oct. 25.
- Axle drive, Rear-. A. Lucand. No. 1,397,770; May 31; v. 286; p. 901.
- Axle, Emergency-. W. A. McQuagge. No. 1,383,554; July 5; v. 288; p. 61.
- Axle ends, Dust and dirt cap for front-. C. J. Pugh. No. 1,382,671; June 28; v. 287; p. 611.
- Axle for running-gears of wagons. F. M. Jacob. No. 1,385,324; July 19; v. 288; p. 557.
- Axle-gaging device. D. H. Turnbull. No. 1,396,477; Nov. 8.
- Axle-housings, Forming. A. L. Putnam. No. 1,384,485; July 12; v. 288; p. 803.



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- Axle, Internal-drive rear. F. H. Farmer. No. 1,380,547; June 7; v. 287; p. 42.
- Axle-lubricator. T. G. Bass. No. 1,397,352; Nov. 15.
- Axle-lubricator. H. B. Folsetter. No. 1,373,126; Mar. 29; v. 284; p. 855.
- Axle, Motor-vehicle. A. Muenk. No. 1,396,869; Nov. 15.
- Axle-mounting. N. J. Gondolf. No. 1,394,491; Oct. 18.
- Axle, Rear. J. V. Kammers. No. 1,394,842; Oct. 25.
- Axle, Rear. V. V. Torbensen. No. 1,380,025; May 31; v. 286; p. 950.
- Axle, Self-lubricating. C. M. Feist. No. 1,383,090; June 28; v. 287; p. 690.
- Axle spring-bar connection, Rear-. R. M. Roof. No. 1,381,432; June 14; v. 287; p. 263.
- Axle support, Vehicle-. C. M. Billings. No. 1,393,004; Oct. 11.
- Axle, Tractor-. C. W. Parker. No. 1,367,088; Feb. 1; v. 283; p. 41.
- Axles and like articles, Farming. H. H. Keeperts. No. 1,365,923; Jan. 18; v. 282; p. 447.
- Axles, Apparatus for supporting vehicle-. J. Cavanagh. No. 1,364,248; Jan. 4; v. 282; p. 39.
- Axles, Attachment of springs to vehicle-. Nadal y Felip. No. 1,370,901; Mar. 8; v. 284; p. 263.
- Axles, Lubricating device for railway-vehicle. E. Mooney. No. 1,389,965; Sept. 6; v. 290; p. 82.
- Axles, Making vehicle-. G. M. Carter. No. 1,385,483; July 26; v. 288; p. 666.
- Axles, Manufacturing. R. G. Housdorfer. No. 1,385,998; Aug. 2; v. 289; p. 7.
- Azo dye and its manufacture. R. Arnot. No. 1,395,238; Oct. 25.
- Azo dyestuffs dyeing on mordants. C. Jagerspacher. No. 1,375,701; Apr. 26; v. 285; p. 584.
- Azo dyestuffs dyeing on mordants. C. Jagerspacher. No. 1,382,196; June 21; v. 287; p. 465.
- Babbling device. E. B. Scarsdale. No. 1,400,994; Dec. 20.
- Babbling-jig. W. J. Hempy. No. 1,380,380; June 7; v. 287; p. 11.
- Baby-carriage. J. Weasler. No. 1,385,959; July 26; v. 288; p. 762.
- Baby carriage and walker, Combined. E. I. Gudelj. No. 1,381,415; June 14; v. 287; p. 259.
- Baby-carriages, Auxiliary seat for. E. H. Struebing. No. 1,392,461; Oct. 4.
- Baby-carriages, Detachable rainproof top for. W. R. Munson. No. 1,377,910; May 10; v. 286; p. 350.
- Baby-envelop. S. Backmann. No. 1,373,378; Mar. 29; v. 284; p. 90.
- Baby-harness. E. D. Parson. No. 1,377,919; May 10; v. 286; p. 352.
- Baby-jumper. G. B. Conley. No. 1,384,181; July 12; v. 288; p. 240.
- Baby-jumper and go-cart. N. F. and H. Wollam. No. 1,370,176; Mar. 1; v. 284; p. 80.
- Baby-swing. C. W. Cavanaugh. No. 1,379,082; May 24; v. 286; p. 697.
- Back and belly band holder. J. H. Forme. No. 1,390,115; Sept. 6; v. 290; p. 113.
- Back-brace. R. E. Kelly. No. 1,371,690; Mar. 15; v. 284; p. 479.
- Back-filler. H. J. Bentson. No. 1,380,944; June 7; v. 287; p. 119.
- Backband. J. B. McHugh. No. 1,372,526; Mar. 22; v. 284; p. 695.
- Backband-hook. A. A. Hopson. No. 1,375,911; Apr. 26; v. 285; p. 623.
- Backband-hook. W. C. Martin. No. 1,392,843; Oct. 4.
- Backband-hook. G. C. Williams. No. 1,365,432; Jan. 11; v. 282; p. 311.
- Back-rest, Adjustable. B. P. Burns. No. 1,365,223; Jan. 11; v. 282; p. 271.
- Back-rest. H. N. Speer. No. 1,380,934; June 7; v. 287; p. 117.
- Back-rest. H. N. Speer. No. 1,380,935; June 7; v. 287; p. 117.
- Back-scrubbing device. U. Kawasaki. No. 1,379,925; May 31; v. 286; p. 931.
- Bacterial cultures, Receptacle for. M. J. Hollowood. No. 1,389,659; Sept. 6; v. 290; p. 20.
- Badge. C. J. Dieges. No. 1,394,977; Oct. 25.
- Badge and detachable watch-guard, Combined. L. E. Thomas. No. 1,389,711; Sept. 6; v. 290; p. 30.
- Badge-fastener. F. J. Fehn. No. 1,386,096; Aug. 2; v. 289; p. 27.
- Bag. See—
- Coin-bag. Male urinal bag.
- Cotton-picker's bag. Paper bag.
- Dust-bag. Sewing-machine bag.
- Feed-bag. Shopping-bag.
- Golf-bag. Tobacco-bag.
- Handbag. Traveling-bag.
- Harvesting-bag. Vulcanizing air-bag.
- Lady's hand-bag. Waste-paper bag.
- Bag. C. J. Freese. No. 1,400,355; Dec. 13.
- Bag. E. L. Henderson. No. 1,400,499; Dec. 13.
- Bag closing and tying machine. C. F. Sparks. No. 1,400,327; Dec. 13.
- Bag-cleaner. J. C. Fulkerson and L. B. Stuart. No. 1,397,417; Nov. 15.
- Bag-cleaning apparatus. J. M. Kelly. No. 1,388,722; Aug. 23; v. 289; p. 727.
- Bag-closure. W. M. Childers. No. 1,368,545; Feb. 15; v. 283; p. 431.
- Bag-closure. P. Laux. No. 1,367,485; Feb. 1; v. 283; p. 120.
- Bag closure or stopper, Hot-water and ice. J. J. Bowes, Jr. (Reissue.) No. 15,033; Jan. 25; v. 282; p. 683.
- Bag-cutter, grubber, and weeder. C. A. Ambrose. No. 1,392,900; Oct. 11.
- Bag-fastener. J. M. Almedia. No. 1,401,854; Dec. 27.
- Bag-fastener. F. A. Fuller. No. 1,366,376; Jan. 25; v. 282; p. 578.
- Bag-fastener. F. A. Fuller. No. 1,393,770; Oct. 18.
- Bag-filling machine. E. L. Buschman. No. 1,372,480; Mar. 22; v. 284; p. 687.
- Bag-frame catch or hasp. W. A. Lotz. No. 1,399,779; Dec. 13.
- Bag-frame fastener. J. S. Isidor. No. 1,370,748; Mar. 8; v. 284; p. 234.
- Bag-handling apparatus. J. J. Curran. No. 1,383,790; July 5; v. 288; p. 111.
- Bag-holder. E. W. Hurlbutt. No. 1,375,590; Apr. 19; v. 285; p. 529.
- Bag-holder. F. J. Morris. No. 1,378,050; May 17; v. 286; p. 429.
- Bag-holder. J. B. O'Brien. No. 1,397,898; Nov. 22.
- Bag-holder. L. B. Shamblen. No. 1,373,839; Apr. 5; v. 285; p. 89.
- Bag-holder. J. Sinclair. No. 1,386,658; Aug. 9; v. 289; p. 208.
- Bag-holder. P. Spartz. No. 1,399,814; Dec. 13.
- Bag-holder. J. E. Ward. No. 1,376,660; May 3; v. 286; p. 53.
- Bag-holder. J. Zakarka. No. 1,386,669; Aug. 9; v. 289; p. 211.
- Bag-lock. B. J. Richardson and C. S. Barber. No. 1,397,455; Nov. 15.
- Bag-lock. C. E. Smith. No. 1,376,362; Apr. 26; v. 285; p. 709.
- Bag-lock. H. Tueckmantel and W. A. Lotz. No. 1,400,640; Dec. 20.
- Bag-making machine. C. H. Howard. No. 1,365,494; Jan. 11; v. 282; p. 323.
- Bag-making machine. J. V. R. Shepherd. No. 1,365,495; Jan. 11; v. 282; p. 323.
- Bag-making machines, Attachment for. L. F. Baumann. No. 1,400,404; Dec. 13.
- Bag-sewing apparatus, Filled-. D. S. Seymore. No. 1,372,372; Mar. 22; v. 284; p. 666.
- Bag-support. M. C. Spraggins. No. 1,392,716; Oct. 4.
- Bag-tie. C. C. Henderson. No. 1,386,058; Aug. 2; v. 289; p. 20.
- Bag-tie seal-lock. E. Tyden. No. 1,396,479; Nov. 8.
- Bag-tops, Making. S. G. Mandalian. No. 1,397,874; Nov. 22.
- Bag-tying machine. R. M. Warwick. No. 1,373,470; Apr. 5; v. 285; p. 18.
- Bag-tying tool. A. M. Bates. No. 1,373,939; Apr. 5; v. 285; p. 109.
- Bags, Detachable handle for. K. B. Cook. No. 1,371,548; Mar. 15; v. 284; p. 452.
- Bags, Frame for traveling-. S. Dresner. No. 1,384,433; July 12; v. 288; p. 293.
- Bagasse, Isolating fiber from. D. E. Scott. No. 1,399,891; Dec. 13.
- Baggage-check. J. R. Laracy. No. 1,401,338; Dec. 27.
- Baggage-tag. C. A. Feters. No. 1,384,457; July 12; v. 288; p. 298.
- Bagging-cutter. L. P. Lively. No. 1,386,940; Aug. 9; v. 289; p. 266.
- Bail, Artificial. W. A. Stolley. No. 1,376,590; May 3; v. 286; p. 40.
- Bail-ear and bail. J. F. Lamb. No. 1,391,257; Sept. 20; v. 290; p. 496.
- Bailer. J. P. T. Davis. No. 1,396,262; Nov. 8.
- Bailer. W. Elliot. No. 1,365,899; Jan. 18; v. 282; p. 442.
- Bailer. I. Swartz. No. 1,385,760; July 26; v. 288; p. 723.
- Bailer, Detachable-end. F. B. Alldredge. No. 1,389,023; Aug. 30; v. 289; p. 842.
- Bailing apparatus. A. B. Boyer and O. Davisson. No. 1,383,069; June 28; v. 287; p. 686.
- Bait, Artificial. J. C. Caldwell. No. 1,390,601; Sept. 13; v. 290; p. 301.
- Bait, Artificial. J. Frame. No. 1,393,617; Oct. 11.
- Bait, Artificial. H. T. Leeper. No. 1,394,313; Oct. 18.
- Bait, Artificial. G. M. Roderick. No. 1,372,831; Mar. 29; v. 284; p. 796.
- Bait, Artificial trolling-. L. P. Kelley. No. 1,368,939; Feb. 15; v. 283; p. 506.
- Bait, Artificial trolling-. G. Robertson. No. 1,376,230; Apr. 26; v. 285; p. 684.
- Bait, Fish-. O. C. Tuttle. No. 1,395,533; Nov. 1.
- Bait, Fish-decoy. G. W. Wheeler. No. 1,391,030; Sept. 20; v. 290; p. 450.
- Bait for luring animals. G. J. Thiessen. No. 1,366,509; Jan. 25; v. 282; p. 605.
- Bait manufacture, Fish-. H. S. Dills. No. 1,391,670; Sept. 27; v. 290; p. 653.
- Bait, Paste. J. M. Hickson and D. A. Young. No. 1,384,320; July 12; v. 288; p. 269.
- Bait, Plug-. L. J. Lane. No. 1,385,627; July 26; v. 288; p. 696.
- Bake-pan, Multiple. No. 1,395,030; Oct. 25.



*Alphabetical list of inventions—Continued.*

- Bakers' mix, Forming. F. A. Doyle. No. 1,387,693; Aug. 16; v. 289; p. 467.
- Baker's peel. A. L. Hapner. No. 1,393,683; Oct. 11.
- Baking apparatus. F. T. Snyder. No. 1,395,211; Oct. 25.
- Baking-machine. J. W. McGowan. No. 1,371,386; Mar. 15; v. 284; p. 420.
- Baking material, (updraft-kiln,) Apparatus for. I. M. Justice and G. A. Willigman. No. 1,385,686; July 26; v. 288; p. 708.
- Baking, Method and apparatus for. S. D. Flood. No. 1,394,674; Oct. 25.
- Baking pastry, Protecting-shield for use in. J. Scott. No. 1,375,539; Apr. 19; v. 285; p. 520.
- Baking preparation. H. M. Blinn. No. 1,370,272; Mar. 1; v. 284; p. 99.
- Balance staffs and wheels, Calipers for pivot testing, truing, and poising of. C. Culman. No. 1,393,203; Oct. 11.
- Balancing-machine. G. T. Johnson. No. 1,364,993; Jan. 11; v. 282; p. 227.
- Balancing-machine. G. T. Johnson. No. 1,364,994; Jan. 11; v. 282; p. 227.
- Balancing-machine. J. Lundgren. No. 1,398,333; Nov. 29.
- Balancing signaling systems. W. H. Martin. No. 1,395,854; Nov. 1.
- Balancing system, Interlocking. J. P. Tarbox. No. 1,367,839; Feb. 8; v. 283; p. 246.
- Bale. E. H. Angier. No. 1,367,650; Feb. 8; v. 283; p. 209.
- Bale-bands, Spliced joint for. W. D. Kimball and C. G. Mortimer. No. 1,393,791; Oct. 18.
- Bale-fork. H. A. Waterman. No. 1,395,692; Nov. 1.
- Bale-tie machine. G. E. Bull. No. 1,400,937; Dec. 20.
- Bale-tie machine. J. Sommer. No. 1,393,178; Oct. 11.
- Bale-tie machine. G. W. Whittington. No. 1,395,319; Nov. 1.
- Balers, Head-block for hay-. J. A. Dalling. No. 1,380,639; June 7; v. 287; p. 59.
- Baling-machine. K. O. Nelson and O. Albert. No. 1,372,898; Mar. 29; v. 284; p. 810.
- Baling-press. O. L. Bowers. No. 1,369,612; Feb. 22; v. 283; p. 677.
- Baling-press. W. R. Fletcher. No. 1,385,439; July 26; v. 288; p. 657.
- Baling-press. A. Payne. No. 1,395,135; Oct. 25.
- Baling-presses, Feed-indicating apparatus for. C. E. Smith. No. 1,374,245; Apr. 12; v. 285; p. 208.
- Baling-presses, Indicator for. H. H. Hardt. No. 1,399,478; Dec. 6.
- Baling-wire needle. W. A. Seymour. No. 1,389,386; Aug. 30; v. 289; p. 914.
- Ball; *See*—  
Golf-ball.
- Ball and making same, Tennis-. W. J. Orr. No. 1,376,778; May 3; v. 286; p. 75.
- Ball bat and making same, Base-. G. B. Miles. No. 1,367,492; Feb. 1; v. 283; p. 122.
- Ball-bearing string-proof wheel. J. L. Chesnutt. No. 1,392,912; Oct. 11.
- Ball catcher and thrower. W. Haas. No. 1,375,906; Apr. 26; v. 285; p. 622.
- Ball-deburring machine. R. H. Bannell. No. 1,395,789; Nov. 1.
- Ball, Fuller. D. B. Bird. No. 1,399,459; Dec. 6.
- Ball-marker. W. F. Reach. No. 1,390,926; Sept. 13; v. 290; p. 367.
- Ball-marking device, Golf-. A. G. Hupfel. No. 1,395,418; Nov. 1.
- Ball-mill. G. B. Allison. No. 1,370,259; Mar. 1; v. 284; p. 96.
- Ball-mill feeder, Automatic. H. H. Burhans. No. 1,395,089; Oct. 25.
- Ball-mills, Grinding in. J. S. Fasting. No. 1,394,294; Oct. 18.
- Ball-mill shell and plate. W. S. McKee. No. 1,372,972; Mar. 29; v. 284; p. 825.
- Ball-projector, Pneumatic. C. R. Green. No. 1,379,403; May 24; v. 286; p. 759.
- Ball, Playing-. C. F. Craig and H. M. Connor. No. 1,399,293; Dec. 6.
- Ball practice device, Captive-. C. F. Craig and H. M. Connor. No. 1,399,292; Dec. 6.
- Ball-retainers, Machine for filling. J. Dlesk. No. 1,401,680; Dec. 27.
- Ball-rolling apparatus. F. M. Canda. Nos. 1,399,686-7; Dec. 6.
- Ball-seat. A. B. Breeze. No. 1,401,107; Dec. 20.
- Balls, Manufacturing of sponge-rubber playing-. C. F. Flemming. No. 1,370,805; Mar. 8; v. 284; p. 245.
- Balls, Method of and apparatus for rolling. F. M. Canda. No. 1,367,299; Feb. 1; v. 283; p. 83.
- Balls or pellets, Method and apparatus for making small. C. E. Linebarger. No. 1,393,383; Oct. 11.
- Balls, Racking-frame for pool-. J. H. McCool. No. 1,391,901; Sept. 27; v. 290; p. 699.
- Balls, Retriever for golf-. A. C. Carpenter. No. 1,380,526; June 7; v. 287; p. 38.
- Ballast and fuel-tanks, Valved controlling apparatus for outboard-. F. Lantz. No. 1,399,263; Dec. 6.
- Ballasting device. C. J. Davison. No. 1,364,080; Jan. 4; v. 282; p. 6.
- Balling-machine. A. G. Walls. No. 1,395,213; Oct. 25.
- Balloon. J. Henba. No. 1,383,206; June 28; v. 287; p. 712.
- Balloon and inflating-tank therefor, Auxiliary. G. W. Wilkin. No. 1,372,260; Mar. 22; v. 284; p. 645.
- Balloon, Kite-. R. H. Upson. No. 1,385,972; July 26; v. 288; p. 764.
- Balloon, Observation kite-. E. Prassone and L. Avorio. No. 1,377,924; May 10; v. 286; p. 353.
- Balloon while inflated, Obtaining samples from a. R. H. Upson. No. 1,396,709; Nov. 8.
- Ballot-assembling mechanism. N. F. Garbo. No. 1,379,298; May 24; v. 286; p. 739.
- Bamboo and the like, Machine for shredding. A. H. Williams. No. 1,376,789; May 3; v. 286; p. 77.
- Band-brake. V. R. Carlson. No. 1,386,454; Aug. 2; v. 289; p. 96.
- Band-cutter. C. L. Löffler. No. 1,394,434; Oct. 18.
- Band-cutter and feeder. A. and B. Dion. No. 1,377,323; May 10; v. 286; p. 237.
- Band-cutter and feeder. M. A. Erickson. No. 1,367,738; Feb. 8; v. 283; p. 227.
- Band, Double-bar arch-. J. E. Canning. No. 1,385,775; July 26; v. 288; p. 726.
- Band-holder. W. H. Toburen. No. 1,372,109; Mar. 22; v. 284; p. 615.
- Band-mill. W. H. Trout. No. 1,374,967; Apr. 19; v. 285; p. 410.
- Band-saw lubricator. R. C. Berry. No. 1,379,385; May 24; v. 286; p. 756.
- Band, Self-adjusting friction-. C. C. Fay. No. 1,371,416; Mar. 15; v. 284; p. 426.
- Band-stretcher. J. A. Firsching. No. 1,370,734; Mar. 8; v. 284; p. 232.
- Band-tightener. S. C. Cary and V. Ragona. No. 1,367,121; Feb. 1; v. 283; p. 47.
- Band-tightener. V. Ragona. No. 1,367,094; Feb. 1; v. 283; p. 42.
- Bands or belts, Machine for the continuous vulcanization of. L. A. Subers. No. 1,391,805; Sept. 27; v. 290; p. 679.
- Bands, Sizing Metal. A. W. Limont. No. 1,382,734; June 28; v. 287; p. 623.
- Bandage. J. G. Homan. No. 1,384,467; July 12; v. 288; p. 300.
- Bandage. L. M. Kirwan. No. 1,386,936; Aug. 9; v. 289; p. 265.
- Bandage-winding machine. L. G. Nelson. No. 1,365,535; Jan. 11; v. 282; p. 331.
- Banding-board, Adjustable. J. F. Kennedy. No. 1,397,763; Nov. 22.
- Banjo. J. A. Bolander. No. 1,365,450; Jan. 11; v. 282; p. 315.
- Banjo. J. A. Bolander. No. 1,378,212; May 17; v. 286; p. 459.
- Banjo. F. F. Van Eps. No. 1,364,466; Jan. 4; v. 282; p. 82.
- Banjo construction. A. D. Grover. No. 1,371,760; Mar. 15; v. 284; p. 492.
- Banjo-bridge. W. Post. No. 1,383,752; July 5; v. 288; p. 103.
- Banjos, Colthes-guard for. A. D. Grover. No. 1,370,308; Mar. 1; v. 284; p. 105.
- Bank. A. C. Prince. No. 1,395,008; Oct. 25.
- Bank-check, record-book, and binder. M. A. Howe. No. 1,376,095; Apr. 26; v. 285; p. 659.
- Bank-contact. F. A. Lundquist. No. 1,369,680; Feb. 22; v. 283; p. 690.
- Bank-lock. J. Nutry. No. 1,369,123; Feb. 22; v. 283; p. 582.
- Bank, Savings-. C. Fisher. No. 1,380,050; May 31; v. 286; p. 955.
- Bank, Savings-. C. D. Henninger. No. 1,381,190; June 14; v. 287; p. 218.
- Bank, Small. I. J. Kusel. No. 1,369,674; Feb. 22; v. 283; p. 689.
- Bank, Small. I. J. Kusel. No. 1,369,675; Feb. 22; v. 283; p. 689.
- Bank, Small-coin. I. J. Kusel. No. 1,392,689; Oct. 4.
- Banking-form. J. Primbs. No. 1,371,673; Mar. 15; v. 284; p. 457.
- Banking means, Auxiliary. O. V. Smith. No. 1,395,156; Oct. 25.
- Bar; *See*—  
Auxiliary arch-bar. Medal-ribbon bar.  
Beater-bar. Palatal bar.  
Boring-bar. Pinch-bar.  
Bumper-bar. Pressure-bar.  
Commutator and commu- Rail-bar.  
tator-bar. Reinforce-bar.  
Dolly-bar. Safety-bar.  
Double bumper-bar. Sickle-bar.  
Draw-bar. Sine-bar.  
Exercising horizontal bar. Track-liner bar.  
Glazing-bar. Tow-bar.  
Grate-bar. Wrecking-bar.  
Lingual bar.
- Bar-rack. E. G. Lehman. No. 1,380,570; June 7; v. 287; p. 46.
- Bar-spacer. J. F. Havemeyer. No. 1,372,226; Mar. 22; v. 284; p. 638.
- Bar-stock, Machine for cutting. N. F. Fretter. No. 1,366,783; Jan. 25; v. 282; p. 660.
- Bar support, Adjustable detector-. C. A. Dunham. No. 1,390,989; Sept. 20; v. 290; p. 441.



- Bars, Device for rolling sheet metal with grooved. W. S. Jenkins. No. 1,376,699; May 3; v. 286; p. 60.
- Bars, Method and apparatus for making specially-shaped. A. W. Heinle. No. 1,378,860; May 24; v. 286; p. 656.
- Bars, Method of and machine for straightening. G. A. Keenan. No. 1,395,681; Nov. 1.
- Bars, Removable blade for cutter. E. B. Whitmoyer. No. 1,384,933; July 19; v. 288; p. 477.
- Bars, Supporting device for switch-actuating. V. Auger. No. 1,378,755; May 17; v. 286; p. 564.
- Barber or like chairs, Headrest for. G. C. Larala. No. 1,394,913; Oct. 25.
- Barber-chairs, Headrest for. W. D. Driver. No. 1,371,201; Mar. 8; v. 284; p. 319.
- Barber's appliance. S. M. Coffman. No. 1,396,507; Nov. 8.
- Barber's electrical equipment, Trolley construction for. J. A. Shelton. No. 1,374,117; Apr. 5; v. 285; p. 143.
- Barber's chair. W. F. Koken. No. 1,364,882; Jan. 11; v. 282; p. 205.
- Barbers' chairs, Child's seat for. G. T. Mudd. No. 1,370,986; Mar. 8; v. 284; p. 279.
- Barber's hair-clipper. V. D'Iorio and N. D. Manoilovich. No. 1,366,721; Jan. 25; v. 282; p. 647.
- Barber's hair-cutting machine. E. V. N. Tomasulo. No. 1,379,662; May 31; v. 286; p. 882.
- Barber's pole. W. Kavan. No. 1,372,954; Mar. 29; v. 284; p. 821.
- Barber's pole, Rotary. W. Kavan. No. 1,366,668; Jan. 25; v. 282; p. 637.
- Barb-wire machines, Automatic stop for. F. Heilman. No. 1,399,884; Dec. 6.
- Barge, Bunkering. S. Truscott. No. 1,380,273; May 31; v. 286; p. 997.
- Barge, Dumping. A. F. Wilking. No. 1,394,594; Oct. 25.
- Barium chlorate, Producing. E. P. Schoch. No. 1,391,858; Sept. 27; v. 290; p. 691.
- Barium chlorid, Production of. J. H. MacMahon. No. 1,378,594; May 17; v. 286; p. 532.
- Barking-machine. P. A. Fresk. No. 1,375,374; Apr. 19; v. 285; p. 488.
- Barking machine, Wet. H. T. Holm. No. 1,386,930; Aug. 9; v. 289; p. 264.
- Barley, Producing malted pearl. A. Heinemann. No. 1,400,160; Dec. 13.
- Barns, Drier or heater for tobacco. J. O. Brock. No. 1,368,018; Feb. 8; v. 283; p. 279.
- Barns, Truss for. A. A. Gilmore. No. 1,369,421; Feb. 22; v. 283; p. 638.
- Barometer, Aneroid. S. G. Starling and A. J. Hughes. No. 1,377,032; May 3; v. 286; p. 125.
- Barrel-assembling machine. F. Podsiad. No. 1,398,737; Nov. 29.
- Barrel-cleat. N. A. Ormes. No. 1,395,728; Nov. 1.
- Barrel, Collapsible. W. J. Lawrence. No. 1,371,177; Mar. 8; v. 284; p. 315.
- Barrel, Collapsible. W. H. McCrery. No. 1,391,900; Sept. 27; v. 290; p. 699.
- Barrel, Electroplating. F. H. Hartzell. No. 1,377,155; May 3; v. 286; p. 147.
- Barrel-filler. C. Fisk. No. 1,400,275; Dec. 13.
- Barrel-filling stand. H. Tieke. No. 1,369,856; Mar. 1; v. 284; p. 20.
- Barrel-head. O. M. Fulwider and A. E. Burruss. No. 1,377,334; May 10; v. 286; p. 239.
- Barrel-heads, Machine for making. C. J. Montgomery. No. 1,377,968; May 10; v. 286; p. 361.
- Barrel-hoop machine. A. N. Eaton. No. 1,390,282; Sept. 13; v. 290; p. 237.
- Barrel-hoop-repair device. G. G. Staines. No. 1,381,760; June 14; v. 287; p. 325.
- Barrel-lifter. E. L. Schneider. No. 1,379,313; May 24; v. 286; p. 742.
- Barrel, Metallic shipping. W. C. Irvin. No. 1,398,298; Nov. 29.
- Barrel or crate. G. A. Fevre and H. Hutchinson. No. 1,391,198; Sept. 20; v. 290; p. 484.
- Barrel-protector. W. F. Meek. No. 1,384,704; July 12; v. 288; p. 350.
- Barrel-protector. W. F. Meek. No. 1,399,569; Dec. 6.
- Barrel-rack. E. A. Hensal and G. R. Slaybaugh. No. 1,366,454; Jan. 25; v. 282; p. 594.
- Barrel, Sheet-metal. J. W. McNeil. No. 1,394,923; Oct. 25.
- Barrel-stand. J. J. Kaufman. No. 1,375,593; Apr. 19; v. 285; p. 530.
- Barrel, Three-piece metallic shipping. G. E. Mittinger. No. 1,376,216; Apr. 26; v. 285; p. 681.
- Barrel-tipper. F. J. Logan. No. 1,367,063; Feb. 1; v. 283; p. 36.
- Barrels, Machine for straightening. W. A. Schmidt. No. 1,367,099; Feb. 1; v. 283; p. 43.
- Barrels, Producing and uniting heads to. G. C. Brainard. No. 1,387,640; Aug. 16; v. 289; p. 457.
- Bas-relief design and making same. C. S. Olney. No. 1,375,857; Apr. 26; v. 285; p. 612.
- Base: See—
- Base-clasp base.
- Base-exchange compound and making same. H. J. Wheaton. No. 1,381,777; June 14; v. 287; p. 328.
- Base-exchanging. W. C. Foster. No. 1,385,124; July 19; v. 288; p. 518.
- Baseball game-board. M. P. Tosso, Jr. No. 1,380,440; June 7; v. 287; p. 22.
- Basin Sanitary milk-drip catch-. W. S. Corlis. No. 1,374,825; Apr. 12; v. 285; p. 321.
- Basket. A. J. Allen. No. 1,394,463; Oct. 18.
- Basket. H. R. Garritson. No. 1,388,556; Aug. 23; v. 289; p. 694.
- Basket. W. B. Loewenberg. No. 1,399,974; Dec. 13.
- Basket. C. F. Rothwell. No. 1,387,185; Aug. 9; v. 289; p. 314.
- Basket-ball goal-indicator. R. Jackson, Jr. No. 1,381,466; June 14; v. 287; p. 269.
- Basket-carrier, Detachable. J. P. H. Lane. No. 1,381,476; June 14; v. 287; p. 270.
- Basket, Centrifugal. E. E. La Duke. No. 1,394,743; Oct. 25.
- Basket, Clothes-drawing. G. G. McCormick. No. 1,382,521; June 21; v. 287; p. 528.
- Basket, Clotheshpin-. J. E. West, Jr. No. 1,380,087; May 31; v. 286; p. 962.
- Basket, Creel or trout-. W. L. Marble. No. 1,388,187; Aug. 23; v. 289; p. 621.
- Basket-handle. R. J. Langer. No. 1,371,175; Mar. 8; v. 284; p. 315.
- Basket, Leather. W. E. Votruba. No. 1,368,774; Feb. 15; v. 283; p. 475.
- Basket-making machine. W. F. Barnes. No. 1,387,093; Aug. 9; v. 289; p. 297.
- Basket, Shipping-. W. L. Pitts. No. 1,389,897; Sept. 6; v. 290; p. 69.
- Basket, Wood and tin bound. O. C. Fenlason. No. 1,381,979; June 21; v. 287; p. 426.
- Baskets, Apparatus for making. W. E. Asplin and H. Wisander. No. 1,383,280; July 5; v. 288; p. 4.
- Baskets, Corner-irons for. F. W. Goedeke. No. 1,398,371; Nov. 29.
- Baskets, Discharger for centrifugal. E. Roberts and A. H. Gibson. No. 1,377,141; May 3; v. 286; p. 145.
- Bassinet, Wheel connection for. W. P. Shuffleton. No. 1,370,611; Mar. 8; v. 284; p. 208.
- Bath: See—
- Plating-bath. Sand-bath.
- Bath apparatus, Portable shower-. A. P. Gumaer. No. 1,392,495; Oct. 4.
- Bath-chair. G. F. Steinkamp. No. 1,374,685; Apr. 12; v. 285; p. 294.
- Bath combination and nozzle. B. F. Gable. No. 1,398,941; Nov. 29.
- Bath nozzle, Shower-. E. Circle. No. 1,401,462; Dec. 27.
- Bath-room fixture. G. F. Steinkamp. No. 1,379,318; May 24; v. 286; p. 743.
- Bath-spray. M. F. Chevalier. No. 1,374,430; Apr. 12; v. 285; p. 245.
- Bath-spray. J. J. Donovan. No. 1,391,766; Sept. 27; v. 290; p. 672.
- Bath-spray. H. F. Loomis. No. 1,386,518; Aug. 2; v. 289; p. 108.
- Bath-trap. J. W. Sharp, Jr. No. 1,375,023; Apr. 19; v. 285; p. 421.
- Baths and laving purposes, Hydrottemperature-control system for. D. M. Raiche. No. 1,381,012; June 7; v. 287; p. 132.
- Bathing apparatus, Disassemblable. F. A. Holmes. No. 1,386,176; Aug. 2; v. 289; p. 43.
- Bathing apparatus, Portable. E. J. Bush. No. 1,377,803; May 10; v. 286; p. 329.
- Bathroom-fixtures, Crimped joint for. W. R. Grierson. No. 1,395,707; Nov. 1.
- Bathtub. M. Abraham and L. J. Dennis. No. 1,393,482; Oct. 11.
- Bathtub. E. Adair. No. 1,392,901; Oct. 11.
- Bathtub. J. M. Muskin and R. B. Crump. No. 1,364,785; Jan. 4; v. 282; p. 142.
- Bathtub. E. L. D. Palmer. No. 1,393,310; Oct. 11.
- Bathtub. J. Wesslyk and A. Burak. No. 1,364,164; Jan. 4; v. 282; p. 23.
- Bathtub attachment. I. T. Skiles. No. 1,365,202; Jan. 11; v. 282; p. 266.
- Bathtub-seat. A. A. West. No. 1,371,715; Mar. 15; v. 284; p. 484.
- Bathtubs, Backrest for. M. Stern. No. 1,390,221; Sept. 6; v. 290; p. 132.
- Bathtubs, Clothes-wringer attachment for. R. Dowse. No. 1,382,415; June 21; v. 287; p. 508.
- Bathtubs, Headrest for. S. S. Lefler and R. R. Hatton. No. 1,399,352; Dec. 6.
- Bathtubs, Support for infants'. S. W. Jeffs. No. 1,390,444; Sept. 13; v. 290; p. 268.
- Batteries and making same, Plate for storage. R. N. Chamberlain. No. 1,376,920; May 3; v. 286; p. 103.
- Batteries and making, Separator for storage. D. F. Gould. No. 1,390,355; Sept. 13; v. 290; p. 251.
- Batteries and producing same, Electrode element for galvanic. T. A. Edison. No. 1,386,095; Aug. 2; v. 289; p. 27.
- Batteries, Apparatus for charging storage. W. R. Hersh. No. 1,389,871; Sept. 6; v. 290; p. 63.
- Batteries, Binding-post for storage. J. J. Flood. No. 1,375,654; Apr. 19; v. 285; p. 542.
- Batteries, Connector for. W. Woessner. No. 1,381,443; June 14; v. 287; p. 264.
- Batteries, Electrode for storage. V. C. Stanley. No. 1,388,530; Aug. 23; v. 289; p. 690.



## Alphabetical list of inventions—Continued.

- Batteries, Electroplate for storage. L. Lyndon. No. 1,390,629; Sept. 13; v. 290; p. 308.
- Batteries, Electrolyte for storage. W. Gardener. No. 1,374,916; Apr. 19; v. 285; p. 401.
- Batteries, Electrolyte for storage. W. Gardiner. No. 1,389,750; Sept. 6; v. 290; p. 38.
- Batteries, Grid for storage. J. C. Sundby. No. 1,389,018; Aug. 30; v. 289; p. 841.
- Batteries, Master cut-out for storage. J. M. Wilson. No. 1,391,232; Sept. 20; v. 290; p. 491.
- Batteries, Preparing negative plates for electric. A. Pouchain. No. 1,364,953; Jan. 11; v. 282; p. 219.
- Batteries, Preserving dry. W. S. Brown. No. 1,368,479; Feb. 15; v. 283; p. 418.
- Batteries, Production of electrodes for galvanic. H. N. Cox. No. 1,366,559; Jan. 25; v. 282; p. 615.
- Batteries, Reclaiming dry. C. Ellis and A. A. Wells. No. 1,374,003; Apr. 5; v. 285; p. 122.
- Batteries, Retainer or separator for secondary or storage. B. Ford. No. 1,376,927; May 3; v. 286; p. 104.
- Batteries, Safety charging device for. J. F. Lincoln. No. 1,373,621; Apr. 5; v. 285; p. 47.
- Batteries, Seal for. N. D. Sturges. No. 1,376,905; May 3; v. 286; p. 100.
- Batteries, Terminal structure for electric. T. R. Cook. No. 1,372,603; Mar. 22; v. 284; p. 710.
- Batteries, Vent-cover for storage. B. Ford. No. 1,370,012; Mar. 1; v. 284; p. 49.
- Battery: See—
- |                            |                                |
|----------------------------|--------------------------------|
| Dry battery.               | Galvanic battery.              |
| Dry-cell battery.          | Rechargeable electric battery. |
| Dry-cell electric battery. | Secondary battery.             |
| Electric battery.          | Storage battery.               |
| Electric storage battery.  |                                |
| Flashlight-battery.        |                                |
- Battery. D. H. Wilson. No. 1,398,213; Nov. 22.
- Battery. E. M. Deems and L. W. Willis. No. 1,373,801; Apr. 5; v. 285; p. 82.
- Battery. E. M. Deems and L. W. Willis. No. 1,373,802; Apr. 5; v. 285; p. 82.
- Battery. R. C. Houston. No. 1,372,950; Mar. 29; v. 284; p. 821.
- Battery. A. P. Manchester and H. M. Spooner. No. 1,378,549; May 17; v. 286; p. 523.
- Battery and manufacture, Dry. O. E. Ruhoff. No. 1,397,183; Nov. 15.
- Battery and separator therefor. F. T. Balrd. (Reissue.) No. 15,067; Mar. 22; v. 284; p. 721.
- Battery-anodes, Means for protecting. H. R. Palmer. No. 1,376,034; Apr. 26; v. 285; p. 647.
- Battery apparatus. I. R. Solomon. No. 1,365,801; Jan. 13; v. 282; p. 423.
- Battery-box. G. M. Eaton. No. 1,399,702; Dec. 6.
- Battery-box. O. E. Hunt. No. 1,382,980; June 28; v. 287; p. 669.
- Battery-box. W. B. Sullivan. No. 1,369,056; Feb. 22; v. 283; p. 569.
- Battery-cell construction. W. E. Holland. No. 1,371,894; Mar. 15; v. 284; p. 518.
- Battery-cell cover. W. E. Holland. No. 1,371,895; Mar. 15; v. 284; p. 518.
- Battery-cell cover. R. M. Jones. No. 1,372,435; Mar. 22; v. 284; p. 678.
- Battery-cell, Dry. H. M. Koretzky. Nos. 1,395,281-2; Nov. 1.
- Battery-cell, Storage. F. Engel. No. 1,398,847; Nov. 29.
- Battery-cells, Machine for polishing. S. L. Casella. No. 1,388,403; Aug. 23; v. 289; p. 666.
- Battery cells, Reagent for liquid. D. L. Humphrey and C. L. Pittman. No. 1,375,513; Apr. 19; v. 285; p. 615.
- Battery cells, Yielding terminal cap for dye. A. C. Recker. No. 1,382,440; June 21; v. 287; p. 513.
- Battery-charging device, Program. J. W. Bryce. No. 1,382,622; June 28; v. 287; p. 601.
- Battery-charging system. W. L. Cully. No. 1,406,268; Dec. 13.
- Battery-charging system. O. C. Traver. No. 1,374,690; Apr. 12; v. 285; p. 295.
- Battery-clamp. G. T. W. Gales. No. 1,392,757; Oct. 4.
- Battery connection. W. E. Holland and J. M. Skinner. No. 1,371,093; Mar. 8; v. 284; p. 300.
- Battery-connector. W. S. Doe. No. 1,393,674; Oct. 11.
- Battery-container and making same, Acid-proof. R. N. Chamberlain. No. 1,369,783; Mar. 1; v. 284; p. 6.
- Battery-cover. G. J. Bundy. No. 1,398,358; Nov. 29.
- Battery-electrode. L. Maisel. No. 1,375,306; Apr. 19; v. 285; p. 476.
- Battery-electrode and making same, Depolarizing. R. C. Benner and H. F. French. No. 1,375,647; Apr. 19; v. 285; p. 541.
- Battery-electrodes, Process and apparatus for making. L. Maisel. No. 1,375,305; Apr. 19; v. 285; p. 476.
- Battery electrolyte, Storage. F. D. Cheney. No. 1,385,305; July 19; v. 288; p. 553.
- Battery-grid. W. R. Polk. No. 1,381,008; June 7; v. 287; p. 132.
- Battery grid, Storage. E. F. Andreae. No. 1,371,661; Mar. 15; v. 284; p. 474.
- Battery grid, Storage. W. E. Holland. No. 1,380,962; June 7; v. 287; p. 122.
- Battery grid, Storage. W. E. Holland. No. 1,380,963; June 7; v. 287; p. 123.
- Battery indicating device. R. H. Grant. No. 1,366,533; Jan. 25; v. 282; p. 610.
- Battery-jar. O. Wittmann. No. 1,381,608; June 14; v. 287; p. 295.
- Battery jars, Apparatus for sealing storage. T. A. Willard. No. 1,391,149; Sept. 20; v. 290; p. 474.
- Battery-jars, Apparatus for testing. A. E. Gustafson. No. 1,370,437; Mar. 1; v. 284; p. 129.
- Battery-jars, Manufacture of hard-rubber. H. Schelhammer. No. 1,400,913; Dec. 20.
- Battery-machine. R. F. Wherland. No. 1,400,471; Dec. 13.
- Battery material, Mixing. J. W. Weiss. No. 1,377,645; May 10; v. 286; p. 298.
- Battery-plate. T. W. Thomson. No. 1,385,507; July 26; v. 288; p. 672.
- Battery-plate. A. J. Trigwell. No. 1,367,288; Feb. 1; v. 283; p. 81.
- Battery-plate-burning rack. E. W. Campbell and M. W. Ramsey. No. 1,396,162; Nov. 8.
- Battery-plate-burning rack. H. A. Hahn. No. 1,391,649; Sept. 20; v. 290; p. 575.
- Battery plate or electrode, Secondary. E. W. Smith. No. 1,370,058; Mar. 1; v. 284; p. 57.
- Battery plate or electrode, Storage. C. D. Galloway. No. 1,370,014; Mar. 1; v. 284; p. 50.
- Battery plate, Storage. B. Ford. No. 1,370,013; Mar. 1; v. 284; p. 49.
- Battery plates, Forming secondary. J. M. Peterson. No. 1,375,317; Apr. 19; v. 285; p. 478.
- Battery plates, Lead-burning machine for storage. P. E. Norris. No. 1,389,155; Aug. 30; v. 289; p. 869.
- Battery-plates, Manufacturing. K. Wright. No. 1,381,387; June 14; v. 287; p. 254.
- Battery plates, Table for pasting storage. W. H. Nordhaus. No. 1,401,181; Dec. 27.
- Battery-post and making a seal. H. L. Wood. No. 1,401,573; Dec. 27.
- Battery-sealing means. W. E. Holland and J. M. Skinner. No. 1,371,092; Mar. 8; v. 284; p. 299.
- Battery-spacer-making machines, Cutter-head for. J. W. Buckhart. No. 1,369,391; Feb. 22; v. 283; p. 633.
- Battery strap-posts, Molding apparatus for. G. P. Washburn. No. 1,392,884; Oct. 4.
- Battery switch-lock. V. Carouso. No. 1,393,259; Oct. 11.
- Battery tray. T. A. Edison. No. 1,364,358; Jan. 4; v. 282; p. 60.
- Battery terminal. A. F. Hawkins. No. 1,400,059; Dec. 13.
- Battery-terminals, Wrench for. W. E. Swearingen. No. 1,401,828; Dec. 27.
- Battery-tester. L. L. Laska. No. 1,388,727; Aug. 23; v. 289; p. 728.
- Battery-water-replenishing device. J. R. Longstreet. No. 1,383,411; July 5; v. 288; p. 32.
- Batting-out and slapping-on device, Automatic. F. P. Strobl. No. 1,395,161; Oct. 25.
- Bead and weather-strip, Combined parting. W. W. Cole. No. 1,393,264; Oct. 11.
- Bead-cementing apparatus. W. C. Stevens. No. 1,379,369; May 24; v. 286; p. 753.
- Bead-clasp base. S. S. Mullins. No. 1,380,827; June 7; v. 287; p. 96.
- Beads, Machine for making glass. W. F. Chase. No. 1,391,527; Sept. 20; v. 290; p. 551.
- Beam, girder, or the like. E. Luling and M. Baronl. No. 1,390,364; Sept. 13; v. 290; p. 253.
- Beam-head. F. Mossberg. No. 1,380,669; June 7; v. 287; p. 65.
- Beam-head. F. Mossberg. No. 1,380,671; June 7; v. 287; p. 66.
- Beam or drum. R. W. Cornwall. No. 1,372,484; Mar. 22; v. 284; p. 687.
- Beam, Reinforced wooden. J. B. Aatila. No. 1,368,594; Feb. 15; v. 283; p. 440.
- Beam, Wooden. E. V. Knight. No. 1,377,891; May 10; v. 286; p. 346.
- Beams, Clamp for angular and cross connections of. T. C. Schenk. No. 1,382,249; June 21; v. 287; p. 476.
- Bean construction. W. I. Tuttle. No. 1,375,644; Apr. 19; v. 285; p. 540.
- Bean-pods, Apparatus for separating tip ends of. E. J. Vaudreuil. No. 1,364,222; Jan. 4; v. 282; p. 34.
- Bean-separator. L. Kunding. No. 1,371,313; Mar. 15; v. 284; p. 404.
- Bean-snipper. N. A. Johannes. No. 1,400,290; Dec. 13.
- Bean-snipper. C. Krotzer. No. 1,365,328; Jan. 11; v. 282; p. 291.
- Bean-snipping machine. C. J. Hooker and B. Roberts. No. 1,385,550; July 26; v. 288; p. 680.
- Bean-spacer. W. E. White. No. 1,387,088; Aug. 9; v. 289; p. 296.
- Bean-thresher. L. G. Willgrubs. No. 1,377,041; May 3; v. 286; p. 126.
- Beans, Machine for snipping string. A. P. Wolfe. No. 1,396,080; Nov. 8.
- Bearing. E. G. Acheson, Jr. Nos. 1,398,219-20; Nov. 29.
- Bearing. G. E. Andre. No. 1,395,244; Nov. 1.
- Bearing. J. T. Austin. No. 1,379,296; May 24; v. 286; p. 758.
- Bearing. W. C. Baker. No. 1,365,763; Jan. 18; v. 282; p. 415.
- Bearing. J. M. Barr. No. 1,368,998; Feb. 22; v. 283; p. 557.



- Bearing. N. Constant. No. 1,389,127; Aug. 30; v. 289; p. 862.
- Bearing. E. H. Crutchfield and A. F. Covert. No. 1,385,906; July 26; v. 288; p. 752.
- Bearing. R. J. Dearborn. No. 1,391,463; Sept. 20; v. 290; p. 538.
- Bearing. P. S. Erikson. No. 1,397,948; Nov. 22.
- Bearing. R. Hildebrand. No. 1,385,683; July 26; v. 288; p. 707.
- Bearing. F. Hinnekens. No. 1,379,818; May 31; v. 286; p. 911.
- Bearing. H. A. S. Howarth. No. 1,390,130; Sept. 6; v. 290; p. 115.
- Bearing. H. A. S. Howarth. No. 1,390,131; Sept. 6; v. 290; p. 116.
- Bearing. G. C. Jett. No. 1,383,466; July 5; v. 288; p. 43.
- Bearing. A. Kingsbury. No. 1,378,544; May 17; v. 286; p. 523.
- Bearing. A. Kingsbury. No. 1,378,546; May 17; v. 286; p. 523.
- Bearing. A. Kingsbury and H. A. S. Howarth. No. 1,367,929; Aug. 16; v. 289; p. 514.
- Bearing. A. Kingsbury and H. A. S. Howarth. No. 1,387,930; Aug. 16; v. 289; p. 514.
- Bearing. A. Kingsbury. No. 1,400,168; Dec. 13.
- Bearing. W. Leinert. No. 1,366,089; Jan. 18; v. 282; p. 479.
- Bearing. C. S. Ricker. No. 1,373,974; Apr. 5; v. 285; p. 117.
- Bearing. D. T. Sharples and G. D. Grosner. No. 1,401,195; Dec. 27.
- Bearing. L. Spierer. No. 1,396,295; Nov. 8.
- Bearing and coupling device for power-transmitting devices. Combined. K. H. Johansson. No. 1,368,034; Feb. 8; v. 283; p. 280.
- Bearing and lubricating same. J. L. Roberts. No. 1,378,559; May 17; v. 286; p. 525.
- Bearing and oiling means therefor. A. H. De Voe. No. 1,392,306; Oct. 4.
- Bearing. Adjustable ball. L. Miquet. No. 1,401,349; Dec. 27.
- Bearing. Adjustable chain oil. H. A. Jones and E. W. Struve. No. 1,385,135; July 19; v. 288; p. 520.
- Bearing. Adjustable pivot. G. H. Ransom. No. 1,393,965; Oct. 18.
- Bearing. Annular ball. H. Hess. No. 1,371,090; Mar. 8; v. 284; p. 299.
- Bearing. Antifriction. A. G. E. Hultgren. No. 1,369,031; Feb. 22; v. 283; p. 564.
- Bearing. Antifriction. J. G. Nelson. No. 1,394,110; Oct. 18.
- Bearing. Antifriction. H. M. Perry. No. 1,398,390; Nov. 29.
- Bearing. Antifriction. R. W. Sellen. (Reissue.) No. 1,523; Nov. 22.
- Bearing. Antifriction. C. A. Winn. No. 1,380,622; June 7; v. 287; p. 56.
- Bearing. Antifriction thrust. M. G. Campbell. No. 1,399,190; Dec. 6.
- Bearing-backs. Lining. C. W. Eggenweiler. No. 1,399,252; Dec. 6.
- Bearing. Ball. E. H. Cooper. No. 1,374,988; Apr. 19; v. 285; p. 414.
- Bearing. Ball. M. Gohlke. No. 1,391,379; Sept. 20; v. 290; p. 521.
- Bearing. Ball. B. M. W. Hanson. No. 1,399,959; Dec. 13.
- Bearing. Ball. K. W. Heyman. No. 1,386,570; Aug. 2; v. 289; p. 118.
- Bearing. Ball. K. O. Leon. No. 1,387,993; Aug. 16; v. 289; p. 526.
- Bearing. Ball. K. W. Lindman. No. 1,373,139; Mar. 29; v. 284; p. 857.
- Bearing. Ball. J. A. Ohlsson. No. 1,387,609; Aug. 16; v. 289; p. 450.
- Bearing. Ball. P. S. Rydbeck. No. 1,366,026; Jan. 18; v. 282; p. 467.
- Bearing. Ball. R. R. Searles. No. 1,375,112; Apr. 19; v. 285; p. 439.
- Bearing. Ball. R. W. Sellew. No. 1,375,019; Apr. 19; v. 285; p. 420.
- Bearing. Ball. R. W. Sellew. No. 1,375,021; Apr. 19; v. 285; p. 421.
- Bearing. Ball. R. W. Sellew. No. 1,375,022; Apr. 19; v. 285; p. 421.
- Bearing. Ball or roller. J. A. Ohlsson. No. 1,375,313; Apr. 19; v. 285; p. 477.
- Bearing. Ball. H. Sundhaussen. No. 1,384,002; July 5; v. 288; p. 154.
- Bearing. Ball. W. H. Teetsow. No. 1,379,945; May 31; v. 286; p. 935.
- Bearing-brass. H. G. Martin. No. 1,383,958; July 5; v. 288; p. 145.
- Bearing-board. S. E. Hansen. No. 1,393,891; Oct. 18.
- Bearing cage. Roller. J. Bingham. No. 1,387,829; Aug. 16; v. 289; p. 495.
- Bearing cage. Roller. C. S. Lockwood. No. 1,365,596; Jan. 11; v. 282; p. 343.
- Bearing-cages. T. V. Buckwalter. No. 1,395,385; Nov. 1.
- Bearing cages. Tie-bar for roller. C. S. Lockwood. No. 1,389,313; Aug. 30; v. 289; p. 900.
- Bearing. Car-axle. J. R. Stephens. No. 1,401,203; Dec. 27.
- Bearing. Center. A. A. Gagarin. No. 1,384,187; July 12; v. 288; p. 242.
- Bearing. Combined thrust and journal roller. P. A. E. Armstrong. No. 1,376,311; Apr. 26; v. 285; p. 700.
- Bearing. Compensating. S. Gnagy. No. 1,377,123; May 3; v. 286; p. 142.
- Bearing. Compensating. L. J. Hirt. No. 1,375,697; Apr. 26; v. 285; p. 583.
- Bearing. Crank-shaft thrust. D. L. Wolfe. No. 1,364,420; Jan. 4; v. 282; p. 72.
- Bearing. Cup and cone. H. Morgan. No. 1,369,979; Mar. 1; v. 283; p. 43.
- Bearing device. Ball. S. Baum. No. 1,383,372; July 5; v. 288; p. 24.
- Bearing-dressing device. C. S. Overman. No. 1,392,208; Sept. 27; v. 290; p. 762.
- Bearing. Disk-plow. A. Jensen. No. 1,371,489; Mar. 15; v. 284; p. 440.
- Bearing. Dustproof. R. H. White and M. B. Morgan. No. 1,387,087; Aug. 9; v. 289; p. 296.
- Bearing-filling machine. L. Bartlett. No. 1,396,089; Nov. 8.
- Bearing-fitting tool. B. Dymond. No. 1,383,454; July 5; v. 288; p. 41.
- Bearing for Ford motor-shafts. Thrust. J. C. Mullins, Jr. No. 1,393,305; Oct. 11.
- Bearing for high-speed fliers. H. Slater. No. 1,369,908; Mar. 1; v. 284; p. 29.
- Bearing for loose pulleys. B. W. Fjellman. No. 1,381,178; June 14; v. 287; p. 216.
- Bearing for pump-shafts. Water-cooled. A. W. Archer. No. 1,386,219; Aug. 2; v. 289; p. 51.
- Bearing for rollers. A. M. Ayers. No. 1,385,418; July 26; v. 288; p. 653.
- Bearing for spreader-shafts. H. Synck. No. 1,389,606; Sept. 6; v. 290; p. 9.
- Bearing for tire and trunnion type mills. Roller. F. D. Gross, R. P. Akins, and J. W. Bucher. No. 1,401,536; Dec. 27.
- Bearing. Hub. T. B. Funk. No. 1,378,587; May 17; v. 286; p. 530.
- Bearing. Hub. T. B. Funk. No. 1,378,588; May 17; v. 286; p. 531.
- Bearing hub. Roller. W. R. Wilson. No. 1,379,670; May 31; v. 286; p. 883.
- Bearing. Journal. G. W. Denton. No. 1,381,811; June 14; v. 287; p. 334.
- Bearing. Lubricating. C. O. Anderson. No. 1,369,211; Feb. 22; v. 283; p. 599.
- Bearing. Lubricating. L. P. Ligon. No. 1,369,896; Mar. 1; v. 284; p. 27.
- Bearing lubrication. G. W. Hoyt. No. 1,371,898; Mar. 15; v. 284; p. 518.
- Bearing-lubricator. J. T. Janette. No. 1,390,443; Sept. 13; v. 290; p. 268.
- Bearing-locking device. Ball. C. F. Ford. No. 1,380,708; June 7; v. 287; p. 73.
- Bearing material. E. E. Waite. No. 1,398,926; Nov. 29.
- Bearing metal. Basket-formed. S. Shimamoto. No. 1,369,848; Mar. 1; v. 284; p. 18.
- Bearing-mounting. Dust-proof and adjustable. E. E. Wickersham. No. 1,365,429; Jan. 11; v. 282; p. 310.
- Bearing. Multiple-row ball. O. H. Lehmann. No. 1,367,610; Feb. 8; v. 283; p. 202.
- Bearing. Pressure-lubricated. T. B. Funk and C. M. Eason. No. 1,370,422; Mar. 1; v. 284; p. 126.
- Bearing-plate. Removable. B. H. Canady. No. 1,387,588; Aug. 16; v. 289; p. 446.
- Bearing rim-lug. Ball. W. J. Smith. No. 1,383,435; July 5; v. 288; p. 37.
- Bearing rings. Gaging apparatus for thrust. L. Rouanet. No. 1,391,509; Sept. 20; v. 290; p. 547.
- Bearing. Rocker-shaft. R. F. Thackston. No. 1,374,779; Apr. 12; v. 285; p. 312.
- Bearing. Roller. P. A. E. Armstrong. No. 1,376,309; Apr. 26; v. 285; p. 699.
- Bearing. Roller. P. A. E. Armstrong. No. 1,376,310; Apr. 26; v. 285; p. 699.
- Bearing. Roller. F. Brierley. No. 1,386,986; Aug. 9; v. 289; p. 275.
- Bearing. Roller. L. S. Christopherson. No. 1,374,987; Apr. 19; v. 285; p. 414.
- Bearing. Roller. A. B. Cook and T. Van Tuyl. No. 1,364,252; Jan. 4; v. 282; p. 40.
- Bearing. Roller. W. Douglas. No. 1,383,292; July 5; v. 288; p. 7.
- Bearing. Roller. J. F. Flaherty. No. 1,389,040; Aug. 30; v. 289; p. 845.
- Bearing. Roller. G. A. Gabriel and J. T. Skillins. No. 1,400,599; Dec. 20.
- Bearing. Roller. J. A. Ganster. No. 1,374,560; Apr. 12; v. 285; p. 270.
- Bearing. Roller. A. J. Higson. No. 1,381,191; June 14; v. 287; p. 218.
- Bearing. Roller. F. A. and J. J. Klavon. No. 1,372,146; Mar. 22; v. 284; p. 622.
- Bearing. Roller. O. E. Michaud. No. 1,397,226; Nov. 15.
- Bearing. Roller. G. L. Miller. No. 1,392,019; Sept. 27; v. 290; p. 725.
- Bearing. Roller. J. F. O'Connor. No. 1,372,721; Mar. 29; v. 284; p. 774.



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- Bearing, Roller-. N. A. Palmgren. No. 1,397,142; Nov. 15; v. 283; p. 403.  
 Bearing, Roller-. H. E. Pratt. No. 1,368,410; Feb. 15; v. 283; p. 403.  
 Bearing, Roller-. H. W. Robinson. No. 1,383,758; July 5; v. 288; p. 104.  
 Bearing, Roller-. C. E. Robson. No. 1,389,385; Aug. 30; v. 289; p. 914.  
 Bearing, Roller-. W. L. Scribner. No. 1,397,297; Nov. 15.  
 Bearing, Roller-. E. H. W. Weibull. No. 1,375,877; Apr. 26; v. 285; p. 616.  
 Bearing, Roller, ball, and other-. A. H. Hindle, S. W. Savage, A. E. Dabbs, and A. Liddle. No. 1,386,255; Aug. 2; v. 289; p. 59.  
 Bearing, Roller side-. F. L. Barber. No. 1,396,014; Nov. 8.  
 Bearing, Roller side-. A. Stuckl. No. 1,369,055; Feb. 22; v. 283; p. 569.  
 Bearing-scraper. H. A. Kennedy. No. 1,365,174; Jan. 11; v. 282; p. 261.  
 Bearing, Sealed radius-. C. L. McCuen. No. 1,400,754; Dec. 20.  
 Bearing, Self-adjusting roller-. E. H. W. Weibull. No. 1,371,282; Mar. 15; v. 284; p. 398.  
 Bearing, Self-aligning. M. U. Burnham. No. 1,373,046; Mar. 29; v. 284; p. 839.  
 Bearing, Self-aligning shaft-. W. Bartholomew and G. Simon. No. 1,388,321; Aug. 23; v. 289; p. 649.  
 Bearing, Self-oiling. H. J. Smith. No. 1,397,115; Nov. 15.  
 Bearing, Shaft-. M. E. Gysel. No. 1,400,055; Dec. 13.  
 Bearing, Shaft-. C. F. Sherwood. No. 1,376,043; Apr. 26; v. 285; p. 648.  
 Bearing, Shaft-hanger. H. R. Reynolds. (Reissue). No. 1,518,7; Sept. 6; v. 290; p. 140.  
 Bearing-shim. C. R. Short. No. 1,383,035; June 28; v. 287; p. 680.  
 Bearing, Side-. A. W. Calvin. No. 1,364,426; Jan. 4; v. 282; p. 74.  
 Bearing, Side-. W. A. Geiger. No. 1,378,853; May 24; v. 286; p. 655.  
 Bearing-sleeve puller, Roller-. J. Kray. No. 1,395,502; Nov. 1.  
 Bearing spindle, Ball-. T. M. Prudden. No. 1,389,009; Aug. 30; v. 289; p. 840.  
 Bearing, Step-. R. R. Scheibe. No. 1,385,400; July 26; v. 288; p. 649.  
 Bearing structures, Producing ball-. C. E. Sorensen. No. 1,395,607; Nov. 1.  
 Bearing, Suspension-. R. A. McCune. No. 1,398,138; Nov. 22.  
 Bearing, Suspension-. J. Parker. No. 1,390,582; Sept. 18; v. 290; p. 297.  
 Bearing, Thrust-. J. W. Brown, Jr. No. 1,386,491; Aug. 2; v. 289; p. 102.  
 Bearing, Thrust-. T. V. Buckwalter. No. 1,375,359; Apr. 19; v. 285; p. 485.  
 Bearing, Thrust-. A. Kingsbury. No. 1,378,545; May 17; v. 286; p. 523.  
 Bearing, Thrust-. C. G. Robertson. No. 1,396,880; Nov. 15.  
 Bearings, Thrust ball-. H. B. Keiper. No. 1,390,717; Sept. 13; v. 290; p. 324.  
 Bearing, Universal roller-. E. P. Webster. No. 1,379,667; May 31; v. 286; p. 883.  
 Bearings, Adjusting and locking ring for roller-. A. H. Leipert. No. 1,372,624; Mar. 22; v. 284; p. 714.  
 Bearings, Apparatus for calibrating rollers for antifriction roller-. E. H. W. Weibull. No. 1,374,127; Apr. 5; v. 285; p. 145.  
 Bearings, Apparatus for chilling. T. V. Buckwalter. No. 1,364,706; Jan. 4; v. 282; p. 127.  
 Bearings, Ball-holder for ball-. K. W. Lindman. No. 1,395,126; Oct. 25.  
 Bearings, Cage for anti-friction-. C. A. Dane and A. A. Kraemer. No. 1,392,920; Oct. 11.  
 Bearings, Clamping device for. J. C. Nelson. No. 1,388,290; Aug. 23; v. 289; p. 642.  
 Bearings, Device for aligning and finishing shaft-. A. A. Martell. No. 1,382,842; June 28; v. 287; p. 643.  
 Bearings, Guard for. T. V. Buckwalter. No. 1,364,705; Jan. 4; v. 282; p. 127.  
 Bearings, Lubricator for ball-. F. H. Clement. No. 1,378,658; May 17; v. 286; p. 545.  
 Bearings, Lubricating device for vertical-spindle. B. W. David. No. 1,372,801; Mar. 29; v. 284; p. 790.  
 Bearings, Machine for closing cages of roller-. E. G. Strong and E. C. Rohn. No. 1,375,334; Apr. 19; v. 285; p. 481.  
 Bearings, Machine for accurately aligning and closing roll-holding cages for roller-. J. Bingham. No. 1,387,881; Aug. 16; v. 289; p. 505.  
 Bearings, Machine for dressing fitted. F. L. Smith and C. R. Hawkins. No. 1,384,163; July 12; v. 288; p. 237.  
 Bearings, Making. H. W. Fletcher. No. 1,399,856; Dec. 13.  
 Bearings, Making cup and cone members for roller-. J. Bingham. No. 1,387,638; Aug. 16; v. 289; p. 457.  
 Bearings, Manufacturing ball-. R. W. Sellew. No. 1,375,020; Apr. 19; v. 285; p. 421.  
 Bearings, Means for lubricating. W. Holthrop. No. 1,376,094; Apr. 26; v. 285; p. 658.  
 Bearings, Means for lubricating. L. Schwitzer. No. 1,364,647; Jan. 4; v. 282; p. 115.  
 Bearings, Mounting for antifriction-. O. Strangland. No. 1,377,637; May 10; v. 286; p. 296.  
 Bearings, Oil-seal for. V. A. Fynn. No. 1,375,376; Apr. 19; v. 285; p. 489.  
 Bearings, Parted cage for ball or roller. A. Danielsson. No. 1,366,312; Jan. 18; v. 282; p. 522.  
 Bearings, Punch-filler for. L. Bartlett. No. 1,396,090; Nov. 8.  
 Bearings, Retainer for antifriction. J. Spanitz. No. 1,365,426; Jan. 11; v. 282; p. 310.  
 Bearings, Retaining member for antifriction elements in side-. W. A. Geiger. No. 1,372,682; Mar. 29; v. 284; p. 766.  
 Bearings, Roller-filler for. L. Bartlett. No. 1,392,550; Oct. 4.  
 Bearings with convex rollers, Roller-cage for roller-. E. H. W. Weibull. No. 1,382,333; June 21; v. 287; p. 492.  
 Beater. L. Bordwell. No. 1,393,941; Oct. 18.  
 Beater. H. M. Hull. No. 1,401,408; Dec. 27.  
 Beater. O. P. Werner and T. W. Arntz. No. 1,375,338; Apr. 19; v. 285; p. 482.  
 Beater and mixer. S. Rabin and J. M. Lang. No. 1,373,761; Apr. 5; v. 285; p. 73.  
 Beater-bar. T. J. Clark. No. 1,378,167; May 17; v. 286; p. 451.  
 Beater, Drum and cymbal. R. C. Danley. No. 1,386,605; Aug. 9; v. 289; p. 198.  
 Beater, Roll and bar. M. R. Rust. No. 1,368,757; Feb. 15; v. 283; p. 472.  
 Beaters, Operating device for. J. O. H. Cazenove. No. 1,385,605; July 26; v. 288; p. 691.  
 Beating-engine. E. Mahler. No. 1,378,046; May 17; v. 286; p. 428.  
 Beating or threshing machine. F. G. Fryer. No. 1,387,380; Aug. 9; v. 289; p. 354.  
 Bed. E. Davis. No. 1,372,802; Mar. 29; v. 284; p. 790.  
 Bed. J. P. Dieckmann. No. 1,372,219; Mar. 22; v. 284; p. 637.  
 Bed. T. H. Griffith. No. 1,385,045; July 19; v. 288; p. 500.  
 Bed. I. L. Hadley. No. 1,400,952; Dec. 20.  
 Bed. G. R. McAllaster. No. 1,383,648; July 5; v. 288; p. 80.  
 Bed. W. H. Muir. No. 1,397,773; Nov. 22.  
 Bed. M. B. Okun. No. 1,367,713; Feb. 8; v. 283; p. 222.  
 Bed. J. R. Watson. No. 1,365,876; Jan. 18; v. 282; p. 438.  
 Bed. J. Yeager. No. 1,388,783; Aug. 23; v. 289; p. 739.  
 Bed and douche pan, Combination. V. Loewenberg. No. 1,376,956; May 3; v. 286; p. 110.  
 Bed and seat, Combined. R. Bradshaw. No. 1,367,013; Feb. 1; v. 283; p. 26.  
 Bed and/or chair, Folding. K. Farah. No. 1,386,612; Aug. 9; v. 289; p. 198.  
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 Bed attachment. S. B. Bedinger. No. 1,368,600; Feb. 15; v. 283; p. 441.  
 Bed, Automobile-. W. D. Hale. No. 1,365,035; Jan. 11; v. 282; p. 236.  
 Bed-bottom structure, Spring-. W. B. Anderson. No. 1,384,111; July 12; v. 288; p. 226.  
 Bed-bottom fabric. R. Bradshaw. No. 1,367,012; Feb. 1; v. 283; p. 26.  
 Bed, Collapsible. G. S. Welch. No. 1,379,064; May 24; v. 286; p. 694.  
 Bed, Camper's. R. Wiles. No. 1,401,846; Dec. 27.  
 Bed, Camper's steel portable folding. A. Gustafson and J. H. Murphy. No. 1,366,728; Jan. 25; v. 282; p. 649.  
 Bed, Camping-. F. Schilke. No. 1,370,227; Mar. 1; v. 284; p. 89.  
 Bed, Collapsible. J. R. Elder. No. 1,372,659; Mar. 22; v. 284; p. 721.  
 Bed, Combination. F. Dudek. No. 1,377,190; May 10; v. 286; p. 210.  
 Bed, Combination automobile. S. Shirek and W. H. Fenton. No. 1,374,400; Apr. 12; v. 285; p. 238.  
 Bed-clamp. M. Leaf. No. 1,392,581; Oct. 4.  
 Bed, Collapsible. G. A. C. Monroe. No. 1,394,331; Oct. 18.  
 Bed construction. E. J. Stalder. No. 1,378,293; May 17; v. 286; p. 475.  
 Bed construction, Couch-. A. F. Kunz. No. 1,381,475; June 14; v. 287; p. 270.  
 Bed construction, Metal. R. F. Redding. No. 1,373,763; Apr. 5; v. 285; p. 74.  
 Bed, Convertible chair-. H. Bittel. No. 1,400,718; Dec. 20.  
 Bed, Convertible. J. O. Fowler. No. 1,372,344; Mar. 22; v. 284; p. 661.  
 Bed, Convertible. B. Hellig. No. 1,369,100; Feb. 22; v. 283; p. 577.  
 Bed, Convertible davenport-. J. Luppino. No. 1,386,789; Aug. 9; v. 289; p. 235.  
 Bed corner-stock, Metal-. L. Slobin and H. Kaufman. No. 1,372,463; Mar. 22; v. 284; p. 683.  
 Bed, Cot-. A. O. Hubbard. No. 1,387,154; Aug. 9; v. 289; p. 308.  
 Bed, Couch-. J. Freeman. No. 1,381,292; June 14; v. 287; p. 236.  
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 Bed couch, Folding-. M. Sherman. No. 1,394,584; Oct. 25.  
 Bed, Davenport-. J. D. Bell. No. 1,366,112; Jan. 18; v. 282; p. 483.



- Bed, Davenport. A. Davis and N. B. Helfman. No. 1,381,172; June 14; v. 287; p. 215.
- Bed-davenport. T. F. Kelly. No. 1,381,843; June 14; v. 287; p. 340.
- Bed, Davenport. B. McIntosh. No. 1,367,067; Feb. 1; v. 283; p. 37.
- Bed, Dumping. H. G. Peterson. No. 1,369,299; Feb. 22; v. 283; p. 615.
- Bed, Dumping. G. E. Sargent. No. 1,382,860; June 28; v. 287; p. 647.
- Bed-elevating device. F. J. Chat. No. 1,378,096; May 17; v. 286; p. 437.
- Bed, Extensible. N. Sinclair. No. 1,380,502; June 7; v. 287; p. 34.
- Bed for automobiles. W. C. Lundstrom. No. 1,375,100; Apr. 19; v. 285; p. 436.
- Bed-frame. H. Gertler. No. 1,370,301; Mar. 1; v. 284; p. 103.
- Bed-frame, Collapsible camp. F. A. Miller and B. M. Tanner. No. 1,399,363; Dec. 6.
- Bed, Foldable. O. Konrad. No. 1,401,796; Dec. 27.
- Bed, Foldable doll-. R. Ross and L. Score. No. 1,370,365; Mar. 1; v. 284; p. 115.
- Bed, Folding. F. S. Berta. No. 1,367,173; Feb. 1; v. 283; p. 58.
- Bed, Folding. J. B. Bettegar. No. 1,368,101; Feb. 8; v. 283; p. 295.
- Bed, Folding. E. C. Brown. No. 1,366,517; Jan. 25; v. 282; p. 607.
- Bed, Folding. F. Conhaim. No. 1,366,521; Jan. 25; v. 282; p. 607.
- Bed, Folding. E. Drefs. No. 1,400,734; Dec. 20.
- Bed, Folding. A. Ernest. No. 1,400,534; Dec. 20.
- Bed, Folding. F. Heyser. No. 1,369,173; Feb. 22; v. 283; p. 591.
- Bed, Folding. J. I. Higgins. No. 1,380,958; June 7; v. 287; p. 121.
- Bed, Folding. J. Johnsyn. No. 1,392,169; Sept. 27; v. 290; p. 754.
- Bed, Folding. H. Litvak. No. 1,401,714; Dec. 27.
- Bed, Folding. W. H. Minnick. No. 1,366,820; Jan. 25; v. 282; p. 667.
- Bed, Folding. L. H. Osterud. No. 1,366,482; Jan. 25; v. 282; p. 600.
- Bed, Folding. V. Terranova. No. 1,380,749; June 7; v. 287; p. 81.
- Bed, Folding. T. Whistance-Smith. No. 1,384,932; July 19; v. 288; p. 477.
- Bed, Folding. A. N. White. No. 1,366,758; Jan. 25; v. 282; p. 655.
- Bed, Folding couch-. R. Bradshaw. No. 1,369,385; Feb. 22; v. 283; p. 632.
- Bed, Folding couch-. H. H. Megary. No. 1,390,248; Sept. 6; v. 290; p. 137.
- Bed, Folding davenport. O. A. Honsinger. No. 1,397,962; Nov. 22.
- Bed, Folding-seat. P. Herbold. No. 1,384,833; July 19; v. 288; p. 457.
- Bed for automobiles, Folding. J. W. Patterson. No. 1,377,852; May 10; v. 286; p. 339.
- Bed, Heated. R. Ferentzl. No. 1,395,912; Nov. 1.
- Bed, Hospital-. E. F. Slabinski. No. 1,373,151; Mar. 29; v. 284; p. 860.
- Bed, Invalid-. T. Dodds. No. 1,388,242; Aug. 23; v. 289; p. 632.
- Bed, Invalid-. T. Dodds. No. 1,397,041; Nov. 15.
- Bed, Invalid's. M. E. Kellum. No. 1,368,211; Feb. 8; v. 283; p. 317.
- Bed, Infant's toilet-. R. L. Davis. No. 1,366,064; Jan. 18; v. 282; p. 474.
- Bed-jack. J. M. Phillips. No. 1,401,554; Dec. 27.
- Bed-motion. E. F. Dudley. No. 1,367,466; Feb. 1; v. 283; p. 116.
- Bed-mounting. H. G. Bishop. No. 1,384,008; July 5; v. 288; p. 156.
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- Bed or attachment therefor. M. C. Nixon. No. 1,398,271; Nov. 29.
- Bed or couch-bed. A. J. Kreuzkamp. No. 1,368,509; Feb. 15; v. 283; p. 473.
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- Bed-rest, Adjustable. D. J. Cook. No. 1,371,196; Mar. 8; v. 284; p. 319.
- Bed, Sofa-. J. A. Dewey. No. 1,379,805; May 31; v. 286; p. 908.
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- Bed-spring. C. H. Gail. No. 1,387,150; Aug. 9; v. 289; p. 307.
- Bed-spring. C. H. Gail. No. 1,400,505; Dec. 13.
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- Bed-spring. H. Litvak. No. 1,399,501; Dec. 6.
- Bed-spring. S. Molis. No. 1,367,275; Feb. 1; v. 283; p. 78.
- Bed-spring. J. B. and J. Magariello. No. 1,392,954; Oct. 11.
- Bed, Spring-. J. Roeverner. No. 1,376,641; May 3; v. 286; p. 49.
- Bed-spring. J. W. Sharp. No. 1,399,894; Dec. 13.
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- Bed-spring and auto-cushion. A. F. Sturm. No. 1,389,168; Aug. 30; v. 289; p. 871.
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- Bed-spring, Convertible. H. A. Schmidt. No. 1,398,203; Nov. 22.
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- Bed-spring cover, Sanitary. H. H. Luedecke. No. 1,383,734; July 5; v. 288; p. 99.
- Bed-spring fabrics, Semi-automatic machine for forming. A. Rhenstrom. No. 1,390,814; Sept. 13; v. 290; p. 344.
- Bed-spring, Foldable. S. Molis. No. 1,370,036; Mar. 1; v. 284; p. 53.
- Bed-spring frame. M. F. Bayer. No. 1,389,930; Sept. 6; v. 290; p. 75.
- Bed-spring frame. H. O. Ersin. No. 1,394,155; Oct. 18.
- Bed-spring frame and bedstead, Combined. H. Litvak. No. 1,401,163; Dec. 27.
- Bed-spring, Portable. S. Mikiel. No. 1,394,326; Oct. 18.
- Bed structure, Collapsible. S. R. Smith. No. 1,374,531; Apr. 12; v. 285; p. 264.
- Bed structure, Collapsible. S. R. Smith. No. 1,395,158; Oct. 25.
- Bed structure, Folding-. T. J. Kelly. No. 1,386,628; Aug. 9; v. 289; p. 202.
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- Bed-table, Adjustable. S. P. Murphy. No. 1,377,911; May 10; v. 286; p. 350.
- Bed, Tilttable. J. D. Bell. No. 1,368,205; Feb. 8; v. 283; p. 316.
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- Bed-warmer. J. R. Fletcher. No. 1,383,197; June 28; v. 287; p. 711.
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- Beds and chairs, Bookrest for hospital. M. L. Dodge. No. 1,384,744; July 19; v. 288; p. 438.
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- Beds, Corner-fastening for. B. H. Jones. No. 1,385,173; July 19; v. 288; p. 528.
- Beds, Fan for. L. O. Reitan. No. 1,376,289; Apr. 26; v. 285; p. 696.
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- Beds, Mattress-holder for invalid-. L. S. Coil. No. 1,384,600; July 12; v. 288; p. 328.
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- Bedclothes-holder. E. T. Edlund. No. 1,371,880; Mar. 15; v. 284; p. 515.
- Bedclothes-holder. S. Goldberg. No. 1,365,169; Jan. 11; v. 282; p. 260.
- Bedclothes-holder. R. J. Lindsay. No. 1,401,340; Dec. 27.
- Bedclothes-holding device. E. B. Plumb. No. 1,373,670; Apr. 5; v. 285; p. 56.
- Bedclothes support. F. Eastlund. No. 1,401,244; Dec. 27.
- Bedpan. E. D. Abraham. No. 1,388,155; Aug. 23; v. 289; p. 615.
- Bedpan. J. Karrakis. No. 1,400,074; Dec. 13.
- Bedpan. B. Moseley. No. 1,401,547; Dec. 27.
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- Bedpan, Sanitary. L. Pieters. No. 1,396,382; Nov. 8.
- Bedpost-hanger. O. Plotler. No. 1,385,794; July 26; v. 288; p. 730.
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- Bedstead. H. H. Talbot. No. 1,394,695; Oct. 25.
- Bedstead. D. C. Travis. No. 1,396,476; Nov. 8.
- Bedstead, Adjustable. C. Corer. No. 1,383,907; July 5; v. 288; p. 134.
- Bedstead, Adjustable. A. and F. Tamarin and M. Hendler. No. 1,394,512; Oct. 18.
- Bedstead, Metal. C. H. Busch. No. 1,397,203; Nov. 15.



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- Bedsteads, Corner-block for. S. J. Lavezzl. No. 1,375,850; Apr. 26; v. 285; p. 611.
- Bedsteads, Corner-fastening for. W. B. Foster. No. 1,384,126; July 12; v. 288; p. 229.
- Bedsteads, Corner-fastening for metal. R. Goldberg. No. 1,382,351; June 21; v. 287; p. 495.
- Bee-smoker. O. W. Shrader. No. 1,386,283; Aug. 2; v. 289; p. 64.
- Bee-trap. L. E. McMonigal. No. 1,371,818; Mar. 15; v. 284; p. 406.
- Beehive. G. W. Bacon. No. 1,370,775. Mar. 8; v. 284; p. 239.
- Beehive. W. E. Crease. No. 1,393,757; Oct. 18.
- Beehive. J. R. Dewees. No. 1,382,068; June 21; v. 287; p. 442.
- Beehive. J. Gorniak. No. 1,392,635; Oct. 4.
- Beehive. T. Juriw. No. 1,374,745; Apr. 12; v. 285; p. 305.
- Beehive. D. Podhajny. No. 1,369,190; Feb. 22; v. 283; p. 594.
- Beehive-frame-wiring device. K. Hawkins. No. 1,373,131; Mar. 29; v. 284; p. 856.
- Beehives, Entrance for. F. L. Nitsch and A. Meier. No. 1,387,734; Aug. 16; v. 289; p. 476.
- Beet-blocker. S. Donner. No. 1,394,152; Oct. 18.
- Beet gatherer, Red-. M. Czyzowicz and J. Szumilas. No. 1,377,468; May 10; v. 286; p. 265.
- Beet-harvester. A. Bozek. No. 1,377,393; May 10; v. 286; p. 250.
- Beet-loader. W. Mable. No. 1,378,705; May 17; v. 286; p. 554.
- Beet-topper. J. L. East. No. 1,373,872; Apr. 5; v. 285; p. 96.
- Beet-topper. W. Hoagg. No. 1,401,079; Dec. 20.
- Beet-topper. H. D. Prose. No. 1,376,461; May 3; v. 286; p. 16.
- Beet topping and excavating machine. H. Beckwith. No. 1,367,853; Feb. 8; v. 283; p. 249.
- Beet-topping apparatus. M. A. Smith. No. 1,389,708; Sept. 6; v. 290; p. 29.
- Beet-topping apparatus. S. J. Wilson. No. 1,369,721; Feb. 22; v. 283; p. 698.
- Beet-topping apparatus. S. J. Wilson. No. 1,393,871; Oct. 18.
- Beet-topping device. G. B. and W. A. Hayes. No. 1,390,289; Sept. 13; v. 290; p. 239.
- Beet-topping machine. A. H. Ballard. No. 1,368,471; Feb. 15; v. 283; p. 416.
- Beets, potatoes, &c., Harvester and loader for. W. Z. Pulliam. No. 1,399,876; Dec. 13.
- Bell. O. A. Shann. No. 1,387,188; Aug. 9; v. 289; p. 315.
- Bell, Clock and call-. E. I. Halsted. No. 1,390,127; Sept. 6; v. 290; p. 115.
- Bell, End-. E. Mattman. No. 1,392,073; Sept. 27; v. 290; p. 735.
- Bell, Paint-. C. S. Ash. No. 1,880,761; June 7; v. 287; p. 83.
- Bell-ringer resistance unit. J. Chodrow. No. 1,397,888; Nov. 22.
- Bells, Attachment for. E. J. Tekulve. No. 1,369,496; Feb. 22; v. 283; p. 654.
- Bellows. P. Heiliger. No. 1,382,081; June 21; v. 287; p. 444.
- Bellows-actuated switch. C. A. Braconier. No. 1,381,789; June 14; v. 287; p. 330.
- Bellows-box. F. J. Novotney. No. 1,388,293; Aug. 23; v. 289; p. 643.
- Bellows, Forming. S. F. Arbuckle. No. 1,367,792; Feb. 8; v. 283; p. 237.
- Belt. J. E. Frank. No. 1,392,319; Oct. 4.
- Belt. J. E. Hogan. No. 1,394,414; Oct. 18.
- Belt. J. R. Randle. No. 1,399,654; Dec. 6.
- Belt, Abdominal. F. G. Baugatz. No. 1,392,101; Sept. 27; v. 290; p. 740.
- Belt, Abdominal. H. A. Mouin. No. 1,391,563; Sept. 20; v. 290; p. 558.
- Belt, Adjustable. T. Jansen. No. 1,367,481; Feb. 1; v. 283; p. 119.
- Belt, Adjustable swimming-. A. D. Bailey. No. 1,366,346; Jan. 25; v. 282; p. 572.
- Belt and fastener therefor, Wide. F. R. Batchelder. No. 1,399,457; Dec. 6.
- Belt and other like articles, Endless. A. M. Hardy. No. 1,372,428; Mar. 22; v. 284; p. 676.
- Belt connection. W. Wenderhold and C. Uebelmesser. No. 1,397,750; Nov. 22.
- Belt-controller. W. E. Stromberg and E. H. Schmicking. No. 1,385,728; July 26; v. 288; p. 717.
- Belt-coupling. J. A. Turner. No. 1,391,285; Sept. 20; v. 290; p. 502.
- Belt-drive. C. Pitts. No. 1,383,850; July 5; v. 288; p. 123.
- Belt-drive, Change-speed. H. H. F. Danger. No. 1,396,168; Nov. 8.
- Belt, Driving. R. P. Champney. No. 1,394,967; Oct. 25.
- Belt, Endless. C. C. Gates. No. 1,400,539; Dec. 20.
- Belt-fastener. L. E. Baer. No. 1,366,551; Jan. 25; v. 282; p. 614.
- Belt-fastener. G. E. Purple. No. 1,382,799; June 28; v. 287; p. 635.
- Belt-fastener. B. C. Robinson. No. 1,394,355; Oct. 18.
- Belt-fastener. E. A. Thurston. No. 1,392,722; Oct. 4.
- Belt-fastener. C. S. E. Voss. No. 1,401,506; Dec. 27.
- Belt-fastener. W. F. Youngblodt. No. 1,382,044; June 21; v. 287; p. 438.
- Belt-fastening device. I. M. Jacobs and W. Cramer. No. 1,385,685; July 26; v. 288; p. 708.
- Belt-guide. J. Rocke. No. 1,399,578; Dec. 6.
- Belt-guide. V. Rogers. No. 1,381,664; June 14; v. 287; p. 306.
- Belt, Guide and guard. L. Matlock. No. 1,366,271; Jan. 18; v. 282; p. 515.
- Belt guide, Clamp-. J. Martin. No. 1,385,878; July 26; v. 288; p. 747.
- Belt-guiding means. W. F. Grupe. No. 1,391,184; Sept. 20; v. 290; p. 481.
- Belt, Helical-spring. W. J. Wiegand. No. 1,378,507; May 17; v. 286; p. 515.
- Belt-holder. J. E. MacMillan. No. 1,389,206; Aug. 30; v. 289; p. 878.
- Belt, Inflatable. T. J. McNeary. No. 1,368,566; Feb. 15; v. 283; p. 434.
- Belt-lacing applier. F. W. Bernero. No. 1,378,759; May 17; v. 286; p. 664.
- Belt-lacing tool. I. M. Jacobs and W. Cramer. No. 1,391,736; Sept. 27; v. 290; p. 667.
- Belt, Leather-tempering. W. C. Wright, W. J. Young, and G. B. Grover. No. 1,370,392; Mar. 1; v. 284; p. 120.
- Belt, Life-. W. H. Barker. No. 1,367,225; Feb. 1; v. 283; p. 68.
- Belt, Life-. J. Szakacs and S. Ferencz. No. 1,377,033; May 3; v. 286; p. 125.
- Belt, Life-saving. J. R. Williams. No. 1,368,529; Feb. 15; v. 283; p. 428.
- Belt, Link. D. Nelson. No. 1,377,268; May 10; v. 286; p. 226.
- Belt-making process. C. C. Gates. No. 1,400,538; Dec. 20.
- Belt or cord and machine and process for making the same, Endless. E. Rivett. No. 1,389,699; Sept. 6; v. 290; p. 27.
- Belt or strap. D. A. MacArthur. No. 1,392,256; Sept. 27; v. 290; p. 772.
- Belt, Power-transmission. E. L. Burrell. No. 1,396,925; Nov. 15.
- Belt, Power-transmission. M. J. Smith. No. 1,373,457; Apr. 5; v. 285; p. 15.
- Belt-pulley and similar device. J. T. Sandberg. No. 1,382,321; June 21; v. 287; p. 489.
- Belt pulley and tightener. B. D. Barton. No. 1,394,705; Oct. 25.
- Belt-pulleys, Bushing for. B. W. Fjellman. No. 1,370,639; Mar. 8; v. 284; p. 214.
- Belt-shifter. G. Fumagalli, C. Surico, and P. Cardone. No. 1,379,401; May 24; v. 286; p. 758.
- Belt-shifter. E. E. Jones. No. 1,399,388; Dec. 6.
- Belt-shifter. A. F. Poirier and H. E. Allen. No. 1,364,409; Jan. 4; v. 282; p. 70.
- Belt-shifter, Automatic. R. Motznik. No. 1,364,574; Jan. 4; v. 282; p. 101.
- Belt-shifting device. F. A. Bonroe. No. 1,374,811; Apr. 12; v. 285; p. 318.
- Belt-shipper. F. K. Hendrickson. No. 1,365,828; Jan. 18; v. 282; p. 428.
- Belt-shipper. G. R. Quimby and H. F. Parker. No. 1,394,352; Oct. 18.
- Belt, strap, and other like article, Endless. A. M. Hardy. No. 1,375,046; Apr. 19; v. 285; p. 426.
- Belt-stretcher. W. R. Waters. No. 1,396,306; Nov. 8.
- Belt-stretching device. W. R. Waters. No. 1,396,305; Nov. 8.
- Belt, supporting and tightening mechanism, Track-. G. B. Pennington and S. K. Wellman. No. 1,368,652; Feb. 15; v. 283; p. 451.
- Belt-supporting-pulley system. W. J. Armstrong. No. 1,371,290; Mar. 15; v. 284; p. 400.
- Belt-tightener. M. Fischbach. No. 1,374,643; Apr. 12; v. 285; p. 286.
- Belt tightener and lacer. C. S. Humbert. No. 1,389,760; Sept. 6; v. 290; p. 40.
- Belt-tightener, Automatic. G. N. Goddard and F. A. Smith. No. 1,385,942; July 26; v. 288; p. 759.
- Belt-tightening mechanism. C. L. McCuen. No. 1,401,169; Dec. 27.
- Belt-vulcanizing mold. C. L. Smith and E. S. Webster. No. 1,395,473; Apr. 19; v. 285; p. 507.
- Belts, Adjusting device for. J. H. Davis. No. 1,385,309; July 19; v. 288; p. 554.
- Belts, Apparatus for use in making. C. H. Paeplow. No. 1,380,833; June 7; v. 287; p. 98.
- Belts, Attachment-hook for safety-. A. G. Ilch. No. 1,374,738; Apr. 12; v. 285; p. 304.
- Belts, Device for fastening. F. W. Carlson. No. 1,391,168; Sept. 20; v. 290; p. 478.
- Belts, Driving and other. H. Brammer. No. 1,382,888; June 28; v. 287; p. 652.
- Belts, Flexible member for. W. J. Whalen. No. 1,382,700; June 28; v. 287; p. 616.
- Belts, Link for chain. R. W. Dull. Nos. 1,394,979-80; Oct. 25.
- Belts, Link for chain. R. W. Dull. No. 1,396,031; Nov. 8.
- Belts, Manufacturing endless V-shaped or angular. C. E. King. No. 1,401,480; Dec. 27.



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- Belts, Method and apparatus for making. H. M. Lambert. No. 1,370,597; Mar. 8; v. 284; p. 205.
- Belts, Mold for making fan-. C. D. Hibbs. No. 1,401,255; Dec. 27.
- Belt, Making. O. Czaran. No. 1,391,302; Sept. 20; v. 290; p. 506.
- Bench: *See*—
- Box-making bench. Convertible bench.
- Cigar-binder-cutting bench. Piano-bench.
- Bench-leg, Collapsible. J. S. Smart. No. 1,398,471; Nov. 29.
- Bench, Ironing-board, and drying-rack, Combination. H. C. Lyons. No. 1,366,127; Jan. 18; v. 282; p. 486.
- Bench-leg, Metal. H. T. Hallowell. No. 1,379,623; May 31; v. 286; p. 875.
- Bender for bars, rods, and wires. R. V. Williams. No. 1,385,481; July 26; v. 288; p. 666.
- Bender, Rail-. H. P. Rodgers. No. 1,365,854; Jan. 18; v. 282; p. 433.
- Bending machine, Angle-. S. D. Ronald. No. 1,375,934; Apr. 26; v. 285; p. 627.
- Bending-machine and bending. J. H. Holmgreen. No. 1,372,816; Mar. 29; v. 284; p. 793.
- Bending machine, Flange-. R. K. Palmer and W. G. Milne. No. 1,366,331; Jan. 18; v. 282; p. 526.
- Bending rods, bars, or the like, Machine for. H. J. Hardy. No. 1,385,542; July 26; v. 288; p. 678.
- Benzanthrone, Purifying. L. C. Daniels. No. 1,365,024; Jan. 11; v. 282; p. 233.
- Berry-box. E. O. Nordstrom. No. 1,401,549; Dec. 27.
- Berry-box. E. E. Ogden. No. 1,375,722; Apr. 26; v. 285; p. 587.
- Berry cleaner and stemmer. P. Ervin. No. 1,384,455; July 12; v. 288; p. 297.
- Berry-tray. O. O. Eaton. No. 1,400,426; Dec. 13.
- Bevel, miter-square, calipers, and rule, Combination ship-. L. J. England. No. 1,379,090; May 24; v. 286; p. 699.
- Bevel-protractor. C. Straub. No. 1,392,607; Oct. 4.
- Bevel-protractor, Fine-adjustment. L. S. Starrett and J. A. Adell. No. 1,384,105; July 12; v. 288; p. 225.
- Beveling and sealing clamp. C. E. Maynard. No. 1,391,784; Sept. 27; v. 290; p. 675.
- Beveling device. W. M. Garwood. No. 1,385,782; July 26; v. 288; p. 727.
- Beveling-machine. P. Okey. No. 1,370,991; Mar. 8; v. 284; p. 280.
- Beveling machine, Edge-. A. F. Johnston. No. 1,368,263; Feb. 15; v. 283; p. 375.
- Beverage-cooler. D. A. Matot. No. 1,366,197; Jan. 18; v. 282; p. 499.
- Beverage cooling and dispensing apparatus. D. O. Royster. No. 1,377,630; May 10; v. 286; p. 285.
- Beverage-making, material and producing same. G. K. Mayer. W. G. Andrews, and A. V. Coldby. No. 1,391,557; Sept. 20; v. 290; p. 557.
- Beverage material and making same. A. A. Horlick. No. 1,384,894; July 19; v. 288; p. 469.
- Beverage-mixer. F. G. Schneider. No. 1,386,280; Aug. 2; v. 289; p. 63.
- Beverage-mixing devices, Dispensing attachment for. R. W. Kiedel. No. 1,387,908; Aug. 16; v. 289; p. 510.
- Beverage shipping and dispensing receptacle. D. O. Royster. No. 1,381,341; June 14; v. 287; p. 245.
- Beverages, Apparatus for carbonating. C. H. Jacoby. No. 1,370,213; Mar. 1; v. 284; p. 87.
- Beverages containing chocolates, cocoa, &c., Dispensing means for. H. C. Lyons. No. 1,367,823; Feb. 8; v. 283; p. 243.
- Beverages, Delivery-case for bottled. F. X. Schwab. No. 1,378,197; May 17; v. 286; p. 456.
- Beverages, Making. F. W. Graff and J. V. Oppel. No. 1,376,870; May 3; v. 286; p. 94.
- Beverages, Manufacturing cereal. R. S. Heuser. No. 1,390,711; Sept. 13; v. 290; p. 323.
- Beverages or for cooling liquids, Appliance for preparing iced. J. B. Mitchell. No. 1,386,520; Aug. 2; v. 289; p. 109.
- Beverages, Outfit for producing. H. Schnackenberg. No. 1,366,839; Jan. 25; v. 282; p. 671.
- Beverages, Preparing low-alcoholic. H. Heuser. No. 1,390,710; Sept. 13; v. 290; p. 323.
- Beverages, Preparing low alcoholic and non-alcoholic. H. Heuser. No. 1,401,700; Dec. 27.
- Bib-cock. N. Rousseau. No. 1,371,575; Mar. 15; v. 284; p. 457.
- Bibs or faucets, Drinking-fountain attachment for. F. P. Williams. No. 1,372,213; Mar. 22; v. 284; p. 635.
- Bichlorid of mercury, Manufacture of. C. Schantz. No. 1,373,357; Mar. 29; v. 284; p. 901.
- Bicycle. C. H. Clark. No. 1,381,281; June 14; v. 287; p. 284.
- Bicycle. O. J. Hennebaul. No. 1,374,078; Apr. 5; v. 285; p. 136.
- Bicycle. J. C. R. Schleder. No. 1,380,082; May 31; v. 286; p. 961.
- Bicycle. C. E. G. Schoenknecht. No. 1,394,866; Oct. 25.
- Bicycle construction. E. M. Lewis. No. 1,388,961; Aug. 30; v. 289; p. 829.
- Bicycle-forks, Manufacturing. E. M. Lewis. No. 1,378,041; May 17; v. 286; p. 427.
- Bicycle handle-bars, Clamping-stem for. C. E. Weaver. No. 1,364,496; Jan. 4; v. 282; p. 87.
- Bicycle luggage-carrier. W. R. Green. No. 1,375,752; Apr. 26; v. 285; p. 592.
- Bicycle-motor attachment. R. E. Bates. No. 1,364,476; Jan. 4; v. 282; p. 83.
- Bicycle or similar wheel. G. M. Ricketts. No. 1,382,122; June 21; v. 287; p. 452.
- Bicycle-pedal. C. D. Wright. No. 1,393,256; Oct. 11.
- Bicycle-pedal. R. S. Heise. No. 1,366,076; Jan. 18; v. 282; p. 476.
- Bicycle-rest. O. F. Krahn. No. 1,369,116; Feb. 22; v. 283; p. 580.
- Bicycle skirt-shield. C. F. La Mantia. No. 1,373,338; Mar. 29; v. 284; p. 897.
- Bicycle sleigh attachment. C. K. Nagy. No. 1,399,643; Dec. 6.
- Bicycle spring-motor. D. Zaborsky. No. 1,374,797; Apr. 12; v. 285; p. 315.
- Bicycle stand or support. A. Donati. No. 1,392,749; Oct. 4.
- Bicycle-support. E. Palmer and V. Stevens. No. 1,364,407; Jan. 4; v. 282; p. 70.
- Bicycles, Flashlight-bracket for. E. F. Pawsat. No. 1,393,158; Oct. 11.
- Bicycles, Handle-bar-post-repair part for. I. Schwartz. No. 1,379,784; May 31; v. 286; p. 904.
- Bicycles, Motor-wheel for. R. S. Smith. No. 1,373,918; Apr. 5; v. 285; p. 105.
- Bicycles, Sprocket-guard attachment for. C. S. Adams. No. 1,400,131; Dec. 13.
- Bicycles, Stand for. J. Hutchinson. No. 1,374,452; Apr. 12; v. 285; p. 249.
- Bicycles, Support for. J. H. N. Christian. No. 1,371,736; Mar. 15; v. 284; p. 488.
- Bidet. J. F. Kelly, and E. S. Thompson. No. 1,369,283; Feb. 22; v. 283; p. 612.
- Bifocal. H. W. Hill. No. 1,400,061; Dec. 13.
- Bilge-block. K. R. Kennison. No. 1,385,487; July 26; v. 288; p. 667.
- Billboard. R. A. Johnston. No. 1,382,647; June 28; v. 287; p. 606.
- Billet and method and means for casting same. C. S. Morse. No. 1,387,290; Aug. 9; v. 289; p. 334.
- Billet-casting. R. E. Bradley. No. 1,393,195; Oct. 11.
- Billet-casting, Method and means for. C. S. Morse. No. 1,387,291; Aug. 9; v. 289; p. 335.
- Billet-casting, Method and means for. C. S. Morse. No. 1,387,292; Aug. 9; v. 289; p. 335.
- Billet-casting, Method and means for. C. S. Morse. No. 1,387,293; Aug. 9; v. 289; p. 335.
- Billet-charging apparatus. H. Tomlinson. No. 1,390,845; Sept. 13; v. 290; p. 360.
- Billets, Tool for piercing. L. D. Earl. No. 1,374,369; Apr. 12; v. 285; p. 232.
- Billiard-cue holder. A. E. Cooper. No. 1,393,265; Oct. 11.
- Billiard-table. J. Turner. No. 1,369,992; Mar. 1; v. 284; p. 45.
- Billing-machine attachment. M. J. Downey. No. 1,373,870; Apr. 5; v. 285; p. 96.
- Bills and posters, Device for setting up forms for contents. R. McKay. No. 1,370,982; Mar. 8; v. 284; p. 278.
- Bin: *See*—
- Grain-storage bin. Revolving bin.
- Hot-material storage-bin. Storage-bin.
- Laundry-segregating bin.
- Bin-gate. R. H. Stevens. No. 1,398,047; Nov. 22.
- Bin structure. E. J. Walker, Jr. No. 1,397,887; Nov. 22.
- Bins, Teltale device for closed. W. O. Renkin. No. 1,391,504; Sept. 20; v. 290; p. 546.
- Binder. L. E. Baltzley. No. 1,388,140; Aug. 16; v. 289; p. 555.
- Binder. H. C. Krause. No. 1,370,595; Mar. 8; v. 284; p. 205.
- Binder. H. E. Olsen. No. 1,370,149; Mar. 1; v. 284; p. 74.
- Binder, Adjustable. A. H. De Voe. No. 1,390,195; Sept. 6; v. 290; p. 128.
- Binder and economizer, Carbon. J. A. White. No. 1,391,872; Sept. 27; v. 290; p. 694.
- Binder attachment. A. J. Gapp. No. 1,381,984; June 21; v. 287; p. 427.
- Binder attachment. F. M. Peden. No. 1,397,821; Nov. 22.
- Binder construction. H. Bernhard. No. 1,384,507; July 12; v. 288; p. 308.
- Binder for sheets, leaves, &c. H. M. Morris. No. 1,398,387; Nov. 29.
- Binder, Infant-. E. L. Larrabee. No. 1,388,867; Aug. 30; v. 289; p. 810.
- Binder, Loose-leaf. W. H. Averill. No. 1,364,973; Jan. 11; v. 282; p. 223.
- Binder, Loose-leaf. D. C. Benedict. No. 1,394,707; Oct. 25.
- Binder, Loose-leaf. J. T. Brumfield. No. 1,390,016; Sept. 6; v. 290; p. 92.
- Binder, Loose-leaf. S. E. Day. No. 1,398,540; Nov. 29.
- Binder, Loose-leaf. W. F. Dunning. No. 1,398,422; Nov. 29.
- Binder, Loose-leaf. J. Engelland. No. 1,397,577; Nov. 22.
- Binder, Loose-leaf. C. Goldstein. No. 1,401,250; Dec. 27.
- Binder, Loose-leaf. C. L. Harvey. No. 1,385,745; July 26; v. 288; p. 720.
- Binder, Loose-leaf. M. P. Jackson. No. 1,396,631; Nov. 8.



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 Binder, Loose-leaf. J. H. Knight. No. 1,372,960; Mar. 29; v. 284; p. 823.  
 Binder, Loose-leaf. E. L. Krag. No. 1,391,780; Sept. 27; v. 290; p. 674.  
 Binder, Loose-leaf. H. B. Lewis. No. 1,399,629; Dec. 6.  
 Binder, Loose-leaf. E. C. Mahon. No. 1,387,859; Aug. 16; v. 289; p. 501.  
 Binder, Loose-leaf. F. K. Mero. No. 1,398,034; Nov. 22.  
 Binder, Loose-leaf. W. H. Murphy. No. 1,398,388; Nov. 29.  
 Binder, Loose-leaf. C. R. Nelson. No. 1,388,591; Aug. 23; v. 289; p. 701.  
 Binder, Loose-leaf. A. Rubin. No. 1,391,079; Sept. 20; v. 290; p. 460.  
 Binder, Loose-leaf. J. Schade. No. 1,369,131; Feb. 22; v. 283; p. 581.  
 Binder, Loose-leaf. J. Schade. No. 1,386,428; Aug. 2; v. 289; p. 91.  
 Binder, Loose-leaf. A. R. Selden. No. 1,398,306; Nov. 29.  
 Binder, Loose-leaf. L. B. Stoddard. No. 1,401,566; Dec. 27.  
 Binder, Loose-leaf. C. D. Trussell. No. 1,369,309; Feb. 22; v. 283; p. 616.  
 Binder, Loose-leaf. C. G. Van Buren. No. 1,380,755; June 7; v. 287; p. 82.  
 Binder, Loose-leaf. S. R. Wycherley. Nos. 1,398,214-15; Nov. 22.  
 Binder, Loose-sheet. C. C. Carpenter. No. 1,365,890; Jan. 18; v. 282; p. 440.  
 Binder, Magazine. F. H. Crump. No. 1,376,799; May 3; v. 286; p. 79.  
 Binder, Music. J. C. Pelletier. No. 1,364,302; Jan. 4; v. 282; p. 51.  
 Binder-rack. F. L. Manny. No. 1,401,171; Dec. 27.  
 Binder-rings, Manufacture of. H. T. Adams. No. 1,365,363; Jan. 11; v. 282; p. 298.  
 Binder, Staple. B. Jahn and E. E. Kahl. No. 1,387,268; Aug. 9; v. 289; p. 329.  
 Binder, Staple. B. Jahn and E. E. Kahl. No. 1,387,269; Aug. 9; v. 289; p. 329.  
 Binder, Temporary. J. Barker. No. 1,384,883; July 19; v. 288; p. 467.  
 Binder, Temporary. G. P. Wigginton. No. 1,385,163; July 19; v. 288; p. 526.  
 Binder tying and cutting device. C. E. Evans. No. 1,378,169; May 17; v. 286; p. 451.  
 Binders, Holder for adhesive. L. Kingsley. No. 1,375,520; Apr. 19; v. 285; p. 516.  
 Binding device. C. H. Payne. No. 1,365,189; Jan. 11; v. 282; p. 264.  
 Binding device, Bundle. H. R. Campbell. No. 1,369,219; Feb. 22; v. 283; p. 600.  
 Binding-machine. A. E. Cranston. No. 1,376,006; Apr. 26; v. 285; p. 641.  
 Binding-machine. W. T. Weaver. No. 1,371,829; Mar. 15; v. 284; p. 505.  
 Binding, Machine for manufacturing cord. F. J. MacDonald. No. 1,369,826; Mar. 1; v. 284; p. 14.  
 Binding media on roads, Apparatus for spraying. S. E. Finley. No. 1,397,045; Nov. 15.  
 Binding, straightening and cement-applying mechanism, French. F. R. Glass. No. 1,395,270; Nov. 1.  
 Binding-strip. H. J. Megley. No. 1,377,846; May 10; v. 286; p. 337.  
 Binding-tip. S. I. Fekete. No. 1,395,403; Nov. 1.  
 Binocular, Prismatic. M. Fujii. No. 1,373,554; Apr. 5; v. 285; p. 34.  
 Bipod. J. S. Butler and S. G. Green. No. 1,375,487; Apr. 19; v. 285; p. 510.  
 Bird-aeroplane. J. Balon. No. 1,377,384; May 10; v. 286; p. 249.  
 Bird-trap. J. Gorniak. No. 1,384,610; July 12; v. 288; p. 330.  
 Bird-trap. L. Jakubowski. No. 1,374,014; Apr. 5; v. 285; p. 124.  
 Biscuit and doughnut cutter. G. E. Kirkpatrick. No. 1,390,138; Sept. 6; v. 290; p. 117.  
 Bit: See—  
   Bridle-bit. Miner's bit.  
   Expansion-bit. Rotary bit.  
   Extension-bit. Well-drill bit.  
   Extension boring-bit. Well-drilling bit.  
 Bit. H. L. Daugherty. No. 1,384,242; July 12; v. 288; p. 253.  
 Bit. F. E. de la Mota. No. 1,368,704; Feb. 15; v. 283; p. 462.  
 Bit and drill guide. F. Pyron. No. 1,385,227; July 19; v. 288; p. 538.  
 Bit and like boring-tool. A. Collier. No. 1,365,660; Jan. 18; v. 282; p. 394.  
 Bit-box. M. D. Airgood. No. 1,399,680; Dec. 6.  
 Bit-brace. E. W. Bullard. No. 1,388,920; Aug. 30; v. 289; p. 821.  
 Bit-brace handle. E. W. Bullard. No. 1,388,924; Aug. 30; v. 289; p. 822.  
 Bit-brace handle. E. W. Bullard. No. 1,388,925; Aug. 30; v. 289; p. 822.  
 Bit-recovering means. J. P. T. Davis. No. 1,396,260; Nov. 8.  
 Bit, Roller. T. Patin. (Reissue.) No. 15,194; Sept. 13; v. 290; p. 377.  
 Bite-taking device. G. S. Davidson. No. 1,385,070; July 19; v. 288; p. 507.  
 Bituminous emulsion. C. S. Reeve. No. 1,398,201; Nov. 22.  
 Bituminous shale, Treating. J. H. Ginet. No. 1,371,160; Mar. 8; v. 284; p. 312.  
 Bituminous substances, Treating. G. A. Wilson, Jr. No. 1,394,874; Oct. 25.  
 Blackboard. J. Grothaus. No. 1,370,961; Mar. 8; v. 284; p. 274.  
 Blackboard. C. B. Neil and R. R. Boggs. No. 1,394,572; Oct. 25.  
 Blackboard or slate. A. B. Ellis. No. 1,387,534; Aug. 16; v. 289; p. 435.  
 Blacking-machine. F. M. Furber. No. 1,373,497; Apr. 5; v. 285; p. 23.  
 Blacking-machine. F. M. Furber. No. 1,375,838; Apr. 26; v. 285; p. 609.  
 Blackleading-machine. W. M. Wood. No. 1,400,589; Dec. 20.  
 Blade-holder. F. Bergman. No. 1,386,757; Aug. 9; v. 289; p. 229.  
 Blade-holder. R. L. Lightfoot. No. 1,391,842; Sept. 27; v. 290; p. 688.  
 Blade-mounting. H. F. Schmidt. No. 1,375,111; Apr. 19; v. 285; p. 438.  
 Blade-securing means and making the same. C. Steenstrup. No. 1,366,605; Jan. 25; v. 282; p. 625.  
 Blades or instruments, Collapsible holder for sharp-edged. A. N. Platero. No. 1,373,758; Apr. 5; v. 285; p. 73.  
 Blanc fixe, Manufacture of. G. Moore. No. 1,388,285; Aug. 23; v. 289; p. 641.  
 Blanching peanuts. R. P. Witt. No. 1,388,395; Aug. 23; v. 289; p. 664.  
 Blank-feeding mechanism. G. Goddu. No. 1,396,191; Nov. 8.  
 Blank or sheet feeding mechanism. F. W. Lev. No. 1,377,841; May 10; v. 286; p. 337.  
 Blank or sheet, Mailing. H. O. Farrington. No. 1,376,865; May 3; v. 286; p. 93.  
 Blanks, Machine for forming metal. E. J. Paque. No. 1,374,223; Apr. 12; v. 285; p. 204.  
 Blanks, Magazine for holding. E. E. Winkley. No. 1,366,549; Jan. 25; v. 282; p. 614.  
 Blanks, Manufacture of wing-nut. A. Muff. No. 1,395,762; Nov. 1.  
 Blanks of varying cross-sections, Forming metal. A. L. Putnam. No. 1,372,246; Mar. 22; v. 284; p. 642.  
 Blanks, Trimming. B. W. Lindquist. No. 1,399,132; Dec. 6.  
 Blanket or robe, Automobile. W. A. Wood. No. 1,364,601; Jan. 4; v. 282; p. 106.  
 Blankets, Holding device for. E. S. Stevens. No. 1,368,582; Feb. 15; v. 283; p. 438.  
 Blankets, Machines for treating. J. and E. J. McCreary. No. 1,400,446; Dec. 13.  
 Blankets, quilts, &c., for baby-cribs, Fastener for. W. E. Fleming. No. 1,390,608; Sept. 13; v. 290; p. 303.  
 Blast-furnace. A. B. Carstens. No. 1,393,749; Oct. 18.  
 Blast-furnace-charging bell. E. L. Ives. No. 1,376,439; May 3; v. 286; p. 12.  
 Blast-furnace parts, Means for protecting. E. L. Ives. No. 1,376,440; May 3; v. 286; p. 12.  
 Blast-furnaces, Mechanism for feeding. B. Newth. No. 1,376,458; May 3; v. 286; p. 15.  
 Blast-gate. F. McMurdie. No. 1,384,204; July 12; v. 288; p. 245.  
 Blast-nozzle. J. M. Hopwood and T. A. Peebles. No. 1,381,306; June 14; v. 287; p. 239.  
 Blasting apparatus. S. T. Hoar. No. 1,369,658; Feb. 22; v. 283; p. 686.  
 Blasting-cap, Electric. A. L. Oliver. No. 1,378,269; May 17; v. 286; p. 471.  
 Bleaching and apparatus therefor, Method of. C. Taylor. No. 1,396,792; Nov. 15.  
 Bleaching-composition. E. Forbes. No. 1,401,901; Dec. 27.  
 Bleaching, dyeing, &c., Apparatus for. M. Poetzsch. No. 1,383,021; June 28; v. 287; p. 677.  
 Bleaching-frame, Traveling. E. T. Reynolds. No. 1,376,290; Apr. 26; v. 285; p. 696.  
 Bleaching vegetable fibers. G. G. Taylor. No. 1,381,440; June 14; v. 287; p. 264.  
 Blind, Louver. B. Jones. No. 1,365,919; Jan. 18; v. 282; p. 446.  
 Blind, Writing-pad for the. M. J. McNeill. No. 1,372,360; Mar. 22; v. 284; p. 664.  
 Block: See—  
   Bilge-block. Logging-block.  
   Building-block. Paving-block.  
   Concrete-building block. Printing-block.  
   Concrete-cement block. Pulley-block.  
   Chock-block. Ratchet-chain block.  
   Cutting-block. Railway bumper-block.  
   Die-block. Safety anchoring-block.  
   Dressing-block. Sheave-block.  
   Drill-block. Spacing-block.  
   Educational block. Switch-point filler-block.  
   Engraving-block. Tapping-block.  
   Flue-block. Terminal block.  
   Fuse-block. Testing-block.  
   Headlight-block. Tile block.  
   Heel-filler block. Toy building-block.  
   Horn-block. Wall-block.



- Block and tripping mechanism, Safety horn- G. M. Johnson. No. 1,364,627; Jan. 4; v. 282; p. 111.
- Block-forming machine. A. Wickstrom. No. 1,393,189; Oct. 11.
- Block-leveler. A. Cash. (Reissue.) No. 15,098; May 3; v. 286; p. 150.
- Block-machine. J. Vogt. No. 1,379,733; May 31; v. 286; p. 895.
- Block-making machine. H. E. Cavanah and M. G. Scholl. No. 1,383,526; July 5; v. 288; p. 55.
- Block-making machine, Concrete- A. de Ciciliani. No. 1,375,953; Apr. 26; v. 285; p. 631.
- Block-molding machine. H. S. Downard. No. 1,393,270; Oct. 11.
- Block or brick making machine. R. Ryan. No. 1,376,731; May 3; v. 286; p. 66.
- Block-pack. S. A. Scott. No. 1,394,363; Oct. 18.
- Block-press. W. C. Burrell and J. Bellingham. No. 1,374,818; Apr. 12; v. 285; p. 819.
- Block-press. E. Frey. No. 1,399,338; Dec. 6.
- Block-printing machines, Printing-block for. R. G. Jackson. No. 1,386,504; Aug. 2; v. 289; p. 105.
- Block-signaling system, Absolute permissive. F. L. Dodgson. No. 1,384,521; July 12; v. 288; p. 311.
- Blocks, Cable-guard for tackle- J. M. Kelsey. No. 1,379,868; May 31; v. 286; p. 920.
- Blocks into smaller sizes, Machine for cutting. A. E. Alchin. No. 1,397,198; Nov. 15.
- Blood-coagulation medium. C. A. Mills. No. 1,397,896; Nov. 22.
- Blood-pressure, Making means for reducing. A. Zuelzer. No. 1,399,535; Dec. 6.
- Blotting device. P. Cohen. No. 1,365,457; Jan. 11; v. 282; p. 316.
- Blow-case. M. B. Cooke. No. 1,376,188; Apr. 26; v. 285; p. 676.
- Blow-out boot. J. A. Barnes. (Reissue.) No. 15,174; Aug. 9; v. 289; p. 366.
- Blow-out boot. G. G. Williams. No. 1,396,487; Nov. 8.
- Blower. E. C. H. Bartlett. No. 1,375,482; Apr. 19; v. 285; p. 509.
- Blower. F. L. Cantwell. No. 1,381,401; June 14; v. 287; p. 257.
- Blower. F. H. C. Coppus. No. 1,377,400; May 10; v. 286; p. 252.
- Blower. C. W. Emery. No. 1,364,360; Jan. 4; v. 282; p. 61.
- Blower. J. W. Muntz. No. 1,385,261; July 19; v. 288; p. 545.
- Blower, Ball-cavity. M. Miller. No. 1,390,068; Dec. 6.
- Blower device. P. Comina. No. 1,365,459; Jan. 11; v. 282; p. 316.
- Blower, Portable. H. C. Reed. No. 1,374,232; Apr. 12; v. 285; p. 206.
- Blower, Rotary. J. T. Needham. No. 1,386,792; Aug. 9; v. 289; p. 236.
- Blower, Soot-. W. M. McNeill. (Reissue.) No. 15,185; Aug. 30; v. 289; p. 951.
- Blowpipe. C. Laing. No. 1,379,708; May 31; v. 286; p. 890.
- Blowpipe. E. C. Meeker and W. B. Woodside. No. 1,371,428; Mar. 15; v. 284; p. 428.
- Blowpipe. G. L. Walker. No. 1,387,434; Aug. 9; v. 289; p. 364.
- Blowpipe. G. L. Walker. No. 1,387,435; Aug. 9; v. 289; p. 364.
- Blowpipe. G. H. Zouck. No. 1,372,735; Mar. 29; v. 284; p. 776.
- Blowpipe. G. H. Zouck and G. L. Walker. No. 1,376,991; May 3; v. 286; p. 116.
- Blowpipe apparatus. R. B. Pickering. No. 1,379,360; May 24; v. 286; p. 751.
- Blowpipe-burner. W. J. Cooper. No. 1,387,591; Aug. 16; v. 289; p. 447.
- Blowpipe, Combination-. G. L. Walker. No. 1,395,537; Nov. 1.
- Blowtorch. C. H. Allen and J. B. Anderson. No. 1,390,265; Sept. 13; v. 290; p. 234.
- Blowtorch. J. A. Anderson. No. 1,383,276; July 5; v. 288; p. 3.
- Blowtorch. F. E. Gerstenberger. No. 1,391,774; Sept. 27; v. 290; p. 673.
- Blowtorch. C. H. Howell. No. 1,386,871; Aug. 9; v. 289; p. 252.
- Blowtorches, Attachment for. T. W. Garnett. No. 1,393,999; Oct. 18.
- Blowtorches, Burner-cleaning device for. C. H. Allen and J. B. Anderson. No. 1,390,264; Sept. 13; v. 290; p. 233.
- Board: See—
- Adjustable drawing-board. Drawing-board.
- Automobile-footboard. Educational board.
- Automobile running-board. Folding drawing-board.
- Banding-board. Game-board.
- Baseball game-board. Hammer-board.
- Bearing-board. Housed ironing-board.
- Combination-board. Ironing-board.
- Composition board. Muster-check board.
- Concrete-form board. Ouija-board.
- Divider-board. Pastry-board.
- Drain-board. Phonograph sound-board.
- Board: See—Continued.
- Plaster-board.
- Pressing-board.
- Primary-instruction board.
- Rim-board.
- Scoop-board.
- Spring-board.
- Stove-board.
- Table and ironing-board.
- Trousers-pressing board.
- Trunk ironing-board.
- Wall-board.
- Water-board.
- Board of fiberized cereal straw, Built-up. J. K. Toles. No. 1,369,500; Feb. 22; v. 283; p. 654.
- Boards, Roughening the side edges of flooring-. W. H. Walker. No. 1,387,873; Aug. 16; v. 289; p. 504.
- Boat. C. J. Baer. No. 1,395,889; Nov. 1.
- Boat. C. J. Baer. No. 1,400,787; Dec. 20.
- Boat. F. J. Elvy. No. 1,383,392; July 5; v. 288; p. 28.
- Boat. T. L. Fox. No. 1,389,865; Sept. 6; v. 290; p. 61.
- Boat. J. C. Greer. No. 1,370,959; Mar. 8; v. 284; p. 274.
- Boat. C. Hansen. No. 1,380,899; June 7; v. 287; p. 110.
- Boat. P. Hill. No. 1,380,296; May 31; v. 286; p. 1001.
- Boat. J. A. Kauffman. No. 1,369,670; Feb. 22; v. 283; p. 688.
- Boat. F. I. Stiles. No. 1,371,986; Mar. 15; v. 284; p. 535.
- Boat, Automobile-. W. H. Houseman and G. Bronson. No. 1,380,319; May 31; v. 286; p. 1005.
- Boat, Automobile-propeller. J. Lane. No. 1,377,892; May 10; v. 286; p. 347.
- Boat, Bathing-. J. Sebeto. No. 1,388,003; Aug. 16; v. 289; p. 528.
- Boat, Collapsible. F. Marcovsky. No. 1,372,528; Mar. 22; v. 284; p. 695.
- Boat, Flying-. L. D. Reed. No. 1,398,467; Nov. 29.
- Boat for discharging explosive bodies. J. E. and T. Thornycroft. No. 1,368,075; Feb. 8; v. 283; p. 290.
- Boat-hull. G. Geist. No. 1,379,552; May 24; v. 286; p. 787.
- Boat hull, Flying-. H. Kleckler. No. 1,392,279; Sept. 27; v. 290; p. 776.
- Boat, Life-. A. P. Horn. No. 1,371,896; Mar. 15; v. 284; p. 518.
- Boat lifting and launching mechanism. D. Maggi. No. 1,398,702; Nov. 29.
- Boat-propelling device. C. F. Parks. No. 1,379,933; May 31; v. 286; p. 932.
- Boat-propelling pole. A. N. Olsen. No. 1,383,559; July 5; v. 288; p. 62.
- Boat, Safety-. J. Ardo. No. 1,364,911; Jan. 11; v. 282; p. 211.
- Boat, Speed-. E. Gardner. No. 1,396,831; Nov. 15.
- Boat-stabilizing device. J. Banaszak. No. 1,371,139; Mar. 8; v. 284; p. 308.
- Boat, Submarine. J. B. Locker. No. 1,388,730; Aug. 23; v. 289; p. 729.
- Boat-transporting apparatus. J. J. R. Haalck. No. 1,373,327; Mar. 29; v. 284; p. 895.
- Boat, Unsinkable. S. Ponzio. No. 1,392,217; Sept. 27; v. 290; p. 763.
- Boat, Wheeled. J. A. Howell. No. 1,395,112; Oct. 25.
- Boats and like light vessels, Construction of bodies of flying-. H. Scott-Paine. No. 1,393,645; Oct. 11.
- Boats, Automatic propeller-governor for. H. J. Nielsen. No. 1,376,632; May 3; v. 286; p. 43.
- Boats, Life-saving apparatus for. F. F. Lowndes. No. 1,383,551; July 5; v. 288; p. 60.
- Boats, Manually-propelled life-saving device and attachment for. E. Bellman. No. 1,401,233; Dec. 27.
- Boats, Motor-propeller for. A. N. Thompson and A. P. Knauber. No. 1,389,712; Sept. 6; v. 290; p. 30.
- Boats, Outboard-motor for. J. F. J. Clementson. No. 1,382,955; June 28; v. 287; p. 665.
- Boats, Outboard-motor for. H. W. Spencer. No. 1,383,495; July 5; v. 288; p. 49.
- Boats, Rudder attachments for. A. D. Stewart. No. 1,382,809; June 28; v. 287; p. 637.
- Boats, Steering and propelling mechanism for. P. Copland. No. 1,386,237; Aug. 2; v. 289; p. 55.
- Bobbin. E. J. Hubbard. No. 1,388,951; Aug. 30; v. 289; p. 827.
- Bobbin. E. J. Hubbard. No. 1,388,952; Aug. 30; v. 289; p. 827.
- Bobbin. F. Mossberg. No. 1,380,672; June 7; v. 287; p. 66.
- Bobbin. W. H. Stokes. No. 1,368,069; Feb. 8; v. 283; p. 289.
- Bobbin-holder. L. A. Cadoret. No. 1,386,921; Aug. 9; v. 289; p. 263.
- Bobbin-holder. A. H. Fleck. No. 1,397,927; Nov. 22.
- Bobbin-holding means. W. P. Wood. No. 1,385,962; July 26; v. 288; p. 763.
- Bobbin-stripper. C. A. Pierce. No. 1,399,025; Dec. 6.
- Bobbin-support. G. R. Plott. No. 1,387,943; Aug. 16; v. 289; p. 517.
- Bobbin, Textile-. E. M. Sims. No. 1,368,991; Feb. 15; v. 283; p. 516.
- Bobbins, Machine for placing rings on. S. R. Gleason. No. 1,382,075; June 21; v. 287; p. 443.
- Bodies after burial, Method of and apparatus for the preservation of. V. Branciforti. No. 1,365,639; Jan. 11; v. 282; p. 351.
- Bodies, Apparatus for forming bucket-. A. H. Searle and O. Duryea. No. 1,375,937; Apr. 26; v. 285; p. 628.



## Alphabetical list of inventions—Continued.

- Bodies, Corrugating cylindrical. W. E. Chalfant. No. 1,378,442; May 17; v. 286; p. 503.
- Bodies, Decomposing, transposing, dissolving, or rendering soluble difficultly-soluble. H. D. Rankin. No. 1,364,804; Jan. 4; v. 282; p. 146.
- Bodies, Device or arrangement for the continuous movement of rolling or sliding. E. Magerle and H. Martinek. No. 1,393,231; Oct. 11.
- Bodies, Making horny. A. Kohner. No. 1,395,834; Nov. 1.
- Bodies, Packing-gland for rotating. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,374,520; Apr. 12; v. 285; p. 262.
- Body construction. W. G. Wall. No. 1,395,538; Nov. 1.
- Body, Dumping. C. H. Alker. No. 1,381,099; June 14; v. 287; p. 201.
- Body, Elastic. C. Sattler. No. 1,379,216; May 24; v. 286; p. 723.
- Body support and lock. W. C. Anthony. No. 1,392,615; Oct. 4.
- Body-treatment machine. J. P. Gardner. No. 1,367,544; Feb. 8; v. 283; p. 190.
- Body, Vehicle. T. J. Kehoe. No. 1,364,282; Jan. 4; v. 282; p. 46.
- Bodkin. A. Baker. No. 1,390,864; Sept. 13; v. 290; p. 354.
- Bogie or trolley. H. D. Richards. No. 1,385,754; July 26; v. 288; p. 722.
- Boiler: *See*—
- Clothes-boiler.
  - Egg-boiler.
  - Electrical boiler.
  - Food-boiler.
  - Heating-boiler.
  - Locomotive-boiler.
  - Milk-boiler.
  - Oil-fired boiler.
  - Rotary boiler.
  - Sectional boiler.
  - Steam-boiler.
  - Superheated-steam boiler.
  - Superheater-boiler.
  - Tubular boiler.
  - Underfeed-stoker boiler.
  - Vehicle-steam-engine boiler.
  - Water-tube boiler.
  - Water-tube steam-boiler.
- Boiler. J. P. Badenhausen. No. 1,374,484; Apr. 12; v. 285; p. 255.
- Boiler. R. W. Birchfield. No. 1,393,741; Oct. 18.
- Boiler. S. S. Davis. No. 1,380,536; June 7; v. 287; p. 40.
- Boiler. J. T. Fennell. No. 1,378,847; May 24; v. 286; p. 654.
- Boiler. F. B. Howell. No. 1,393,622; Oct. 11.
- Boiler. R. Kanla. No. 1,364,115; Jan. 4; v. 282; p. 13.
- Boiler. L. P. McChesney. No. 1,366,268; Jan. 18; v. 282; p. 514.
- Boiler. A. M. Mertzanoff. No. 1,397,010; Nov. 15.
- Boiler. R. J. Nott. No. 1,376,158; Apr. 26; v. 285; p. 670.
- Boiler. W. F. Williams. No. 1,383,179; June 28; v. 287; p. 707.
- Boiler. H. W. Zimmermann. No. 1,371,718; Mar. 15; v. 284; p. 484.
- Boiler and damper regulator for both steam and hot water. J. M. Larson. No. 1,387,853; Aug. 16; v. 289; p. 500.
- Boiler and ship plates, cutting inclined keyways, or other purposes, Machine for scarfing. J. W. Barnes. No. 1,392,549; Oct. 4.
- Boiler-brace. R. J. McKay and F. R. Cooper. No. 1,389,889; Sept. 6; v. 290; p. 67.
- Boiler-cleaner. H. H. Dick. No. 1,392,307; Oct. 4.
- Boiler-cleaning apparatus. D. L. Breed. No. 1,365,149; Jan. 11; v. 282; p. 256.
- Boiler construction. G. C. Baker. No. 1,384,657; July 12; v. 288; p. 340.
- Boiler efficiency, Device for increasing. O. Yamashita. No. 1,399,236; Dec. 6.
- Boiler, Electrical. L. R. Brunswick. No. 1,378,761; May 17; v. 286; p. 565.
- Boiler-feed, Automatic. M. F. McNerney. No. 1,395,133; Oct. 25.
- Boiler-feed-water regulator. W. E. Guise. No. 1,383,936; July 5; v. 288; p. 140.
- Boiler-feed-water regulator. L. C. Gunderson. No. 1,373,237; Mar. 29; v. 284; p. 877.
- Boiler-feed-water regulator. D. R. Knapp. No. 1,376,102; Apr. 26; v. 285; p. 660.
- Boiler-feeding injector. B. T. Williston. No. 1,392,098; Sept. 27; v. 290; p. 740.
- Boiler-fue cleaner. J. H. Goodfellow. No. 1,400,152; Dec. 13.
- Boiler-fue scraper. J. H. Goodfellow. No. 1,400,951; Dec. 20.
- Boiler-fue turner and beader. G. W. Hooker. No. 1,365,915; Jan. 18; v. 282; p. 445.
- Boiler-fues, Support for. E. W. Clarke. No. 1,388,025; Aug. 16; v. 289; p. 532.
- Boiler-fronts, Hinge for. W. E. Ricketson. (Reissue.) No. 15,142; July 5; v. 288; p. 161.
- Boiler-furnace. R. J. Nelson. No. 1,365,943; Jan. 18; v. 282; p. 451.
- Boiler-furnace. T. A. Peebles. No. 1,400,830; Dec. 20.
- Boiler-furnace. A. Spyer. No. 1,390,225; Sept. 6; v. 290; p. 133.
- Boiler-furnace. J. H. Stannard, Sr. No. 1,395,610; Nov. 1.
- Boiler-furnace, Oil-burning. D. J. Irish. No. 1,364,502; Jan. 4; v. 282; p. 88.
- Boiler-gage, Duplex. C. H. and W. R. Johnson. No. 1,374,081; Apr. 5; v. 285; p. 136.
- Boiler or still. V. L. Emerson. No. 1,365,777; Jan. 18; v. 282; p. 418.
- Boiler-sheets, Staying of. J. R. Flannery and E. I. Dodds. No. 1,373,064; Mar. 29; v. 284; p. 842.
- Boiler-tube cleaner. H. M. Varian. No. 1,375,123; Apr. 19; v. 285; p. 441.
- Boiler-tube-cleaning device. J. Ross. No. 1,388,309; Aug. 23; v. 289; p. 646.
- Boiler-tubes, Apparatus for tightening leakages in and about. J. M. Johansen. No. 1,395,186; Oct. 25.
- Boilers and pipes, Composition for coating. R. D. Aslatt. No. 1,372,664; Mar. 29; v. 284; p. 763.
- Boilers, Apparatus for cleaning the smoke-tubes of steam. C. P. Parry. No. 1,370,353; Mar. 1; v. 284; p. 113.
- Boilers, Apparatus for returning water of condensation to steam. J. H. Banks. No. 1,364,856; Jan. 4; v. 282; p. 156.
- Boilers, Apparatus for vaporizing and burning fuel-oil for steam. C. H. Tondeur. No. 1,366,976; Feb. 1; v. 283; p. 19.
- Boilers, Circulation-tube for water-tube steam. T. E. Murray. No. 1,382,220; June 21; v. 287; p. 470.
- Boilers, Cleansing device for water-tube. L. S. Detancourt. No. 1,369,774; Mar. 1; v. 284; p. 4.
- Boilers, Clothes-drier for hot-water. B. Leahy. No. 1,399,721; Dec. 6.
- Boilers, Clothes-rack attachment for. E. E. Etan. No. 1,374,495; Apr. 12; v. 285; p. 257.
- Boilers, Composition for preventing incrustation in steam. A. Pesse. No. 1,399,657; Dec. 6.
- Boilers, Electrical recording or indicating apparatus for. J. M. Wight. No. 1,373,474; Apr. 5; v. 285; p. 19.
- Boilers, Fountain-washer for clothes. A. H. Schwallier. No. 1,379,783; May 31; v. 286; p. 904.
- Boilers, Fuel control for. O. Fox. No. 1,384,247; July 12; v. 288; p. 254.
- Boilers, Low water signal apparatus for steam. L. Nicholas. No. 1,376,966; May 3; v. 286; p. 112.
- Boilers, Low-water signal for steam. W. C. Blundell. No. 1,395,550; Nov. 1.
- Boilers, Means for preventing the formation of scale in steam. F. I. du Pont. No. 1,401,893; Dec. 27.
- Boilers, Oil-furnace for. G. C. Adams. No. 1,382,402; June 21; v. 287; p. 505.
- Boilers, Pressure-regulator for steam. A. Scholz. No. 1,372,200; Mar. 22; v. 284; p. 633.
- Boilers, Safety water-gate for steam. H. A. Rennick. No. 1,377,436; May 10; v. 286; p. 259.
- Boilers, Sediment-pocket for. M. Huffman. No. 1,371,765; Mar. 15; v. 284; p. 493.
- Boilers, Staybolt for. J. R. Flannery and E. I. Dodds. No. 1,366,725; Jan. 25; v. 282; p. 648.
- Boilers, Staybolt for. J. R. Flannery, E. I. Dodds, and C. Hyland. No. 1,364,096; Jan. 4; v. 282; p. 9.
- Boilers, Staybolt structure for. E. I. Dodds and F. K. Landgraf. No. 1,364,184; Jan. 4; v. 282; p. 27.
- Boilers, Staybolt structure for. J. R. Flannery and E. I. Dodds. No. 1,364,099; Jan. 4; v. 282; p. 10.
- Boilers, Staybolt structure for. E. I. Dodds and B. E. D. Stafford. No. 1,383,083; June 28; v. 287; p. 689.
- Boilers, Superheater for locomotive, marine, and other. R. B. Dorman. No. 1,372,491; Mar. 22; v. 284; p. 688.
- Boilers, Tool for applying staybolt-sleeves to. F. K. Landgraf. No. 1,401,611; Dec. 27.
- Boilers, Water-level regulator for steam. F. I. du Pont. No. 1,401,892; Dec. 27.
- Boilers, Water-level regulator for steam. F. I. du Pont. No. 1,401,894; Dec. 27.
- Boilers, Water-feed for steam. W. H. Whitmore. No. 1,383,891; July 5; v. 288; p. 131.
- Boilers, Water-purifying system for steam. J. C. Beattie. No. 1,372,393; Mar. 22; v. 284; p. 670.
- Boilers with feed-water, Means for supplying steam. S. O. A. Fiedler. No. 1,391,308; Sept. 20; v. 290; p. 507.
- Bolt-breaking and cotton-separating machine. J. E. Mitchell. No. 1,368,823; Feb. 15; v. 283; p. 484.
- Bolt-weevil catcher. E. R. Hitt. No. 1,386,502; Aug. 2; v. 289; p. 105.
- Bolt-weevil catcher. A. Ploch. No. 1,383,422; July 5; v. 288; p. 34.
- Bolt-weevil destroyer. C. L. Harrison. No. 1,380,302; June 7; v. 287; p. 111.
- Bolt-weevil destroyer, Pink. J. M. Webb. No. 1,396,797; Nov. 15.
- Bolt-weevil eradicator. G. W. Mobley. No. 1,398,599; Nov. 29.
- Bolt-weevil-exterminating device. J. M. Cape. No. 1,380,351; June 7; v. 287; p. 5.
- Bolt-weevils, Insecticide for. P. Koenig. No. 1,395,919; Nov. 1.
- Bolster or pillow-roll support. N. F. Mensure. No. 1,395,506; Nov. 1.
- Bolster, Single-motor. H. J. Murray and W. S. Rugg. No. 1,386,588; Aug. 2; v. 289; p. 122.
- Bolt: *See*—
- Anchor-drill bolt.
  - Brick-anchored bolt.
  - Clamp-bolt.
  - Door-bolt.
  - Drawbolt.
  - Expansion-bolt.
  - Foundation-bolt.
  - Lubricating-bolt.
  - Safety lock-bolt.
  - Spring-bolt.
  - Spring toggle-bolt.
  - Structural bolt.



*Alphabetical list of inventions—Continued.*

- Bolt. P. Bauer and B. J. Fitzsimmons. No. 1,367,763; Feb. 8; v. 283; p. 231.
- Bolt. W. L. Bell. No. 1,390,485; Sept. 13; v. 290; p. 277.
- Bolt. J. J. Talty. No. 1,374,615; Apr. 12; v. 285; p. 281.
- Bolt. T. D. Thomas. No. 1,400,248; Dec. 13.
- Bolt-anchorage and forming same. J. E. Ogden. No. 1,367,080; Feb. 1; v. 283; p. 39.
- Bolt and its installation. J. Taylor. No. 1,373,640; Apr. 5; v. 285; p. 50.
- Bolt and lock. Door. J. B. Foley. No. 138,711; Feb. 15; v. 283; p. 463.
- Bolt and nut. T. Miyagi. No. 1,367,072; Feb. 1; v. 283; p. 38.
- Bolt and nut holder. E. Riley and C. Yunker. No. 1,382,320; June 21; v. 287; p. 489.
- Bolt and nut lock. O. J. Elsele. No. 1,365,775; Jan. 18; v. 282; p. 418.
- Bolt and nut lock. J. C. Johnson. No. 1,380,887; June 7; v. 287; p. 12.
- Bolt and nut, Locking. F. C. Whippey. No. 1,387,085; Aug. 9; v. 289; p. 296.
- Bolt and retainer therefor. E. A. Schafer. No. 1,395,526; Nov. 1.
- Bolt-heading machine. F. J. Schwimmer. No. 1,381,509; June 14; v. 287; p. 276.
- Bolt-lock. G. Baron. No. 1,391,447; Sept. 20; v. 290; p. 535.
- Bolt-lock. E. S. Dillingham. No. 1,370,198; Mar. 1; v. 284; p. 84.
- Bolt-lock. S. Munson. (Reissue.) No. 15,246; Dec. 13.
- Bolt-lock. A. F. and C. J. R. Postel. No. 1,387,172; Aug. 9; v. 289; p. 312.
- Bolt, Locking-. W. Hackett. No. 1,385,001; July 19; v. 288; p. 492.
- Bolt-machines, Feeding mechanism for. H. Thomas. No. 1,389,916; Sept. 6; v. 290; p. 72.
- Bolt-machines, Header for. W. L. Clouse. No. 1,399,850; Dec. 13.
- Bolt-making machine. J. A. Eden, Jr. No. 1,380,047; May 31; v. 286; p. 954.
- Bolt-nut. W. Noble. No. 1,381,587; June 14; v. 287; p. 292.
- Bolt-reclaiming machine. E. L. Dunn. No. 1,374,723; Apr. 12; v. 285; p. 301.
- Bolt, rivet, and the like. F. Allan. No. 1,400,401; Dec. 13.
- Bolt-tightener. H. B. Clemens. No. 1,386,455; Aug. 2; v. 289; p. 96.
- Bolt with divided case. S. A. E. Larsen. No. 1,382,096; June 21; v. 287; p. 447.
- Bolts and pipes, Machine for threading. S. B. Clay. No. 1,381,542; June 14; v. 287; p. 283.
- Bolts, Driving mechanism for shaking-. C. G. Thompson. No. 1,383,676; July 5; v. 288; p. 87.
- Bolts, nuts, &c., Locking device for. P. Baxter. No. 1,371,596; Mar. 15; v. 284; p. 461.
- Bolts or rivets, Device for supporting washers while up-setting the cooperating. C. Maunders. No. 1,398,268; Nov. 29.
- Bolting-up and plate-tightening machinery. J. P. McBride. No. 1,387,895; Aug. 16; v. 289; p. 508.
- Bolting-up device. C. G. Reveny. No. 1,371,396; Mar. 15; v. 284; p. 422.
- Bolting-up machine. A. B. Clark. No. 1,371,861; Mar. 15; v. 284; p. 512.
- Bomb. J. T. Goddard. No. 1,372,744; Mar. 29; v. 284; p. 778.
- Bomb. O. T. Hungerford. No. 1,372,141; Mar. 22; v. 284; p. 621.
- Bomb. A. Mayerson. No. 1,382,307; June 21; v. 287; p. 487.
- Bomb. F. Ranken. No. 1,395,769; Nov. 1.
- Bomb carrying and release system. H. D. Weed. No. 1,396,150; Nov. 8.
- Bomb, Dirigible gravity-. E. A. Sperry and T. H. Phillips, Jr. No. 1,384,868; July 19; v. 288; p. 464.
- Bomb-dropping system. R. V. Morse. No. 1,374,314; Apr. 12; v. 285; p. 221.
- Bomb, Exploding toy. L. F. Duck. No. 1,388,807; Aug. 23; v. 289; p. 744.
- Bomb-release gear. F. Ranken. No. 1,367,095; Feb. 1; v. 283; p. 42.
- Bomb, Water-. F. Smith. No. 1,391,800; Sept. 27; v. 290; p. 678.
- Bomber's training device. E. H. Barry. No. 1,381,158; June 14; v. 287; p. 212.
- Bonding-pin. C. L. Mees. No. 1,365,117; Jan. 11; v. 282; p. 250.
- Bonnet. J. G. Dupont. No. 1,386,692; Aug. 9; v. 289; p. 216.
- Bonnet. R. F. Hough. No. 1,375,048; Apr. 19; v. 285; p. 427.
- Bonnet-fastener. A. S. Ridgeley. No. 1,376,039; Apr. 26; v. 285; p. 647.
- Book. W. C. Bardenheuer. No. 1,370,265; Mar. 1; v. 284; p. 97.
- Book. G. Marshall. No. 1,373,090; Mar. 29; v. 284; p. 847.
- Book. W. A. Radford. No. 1,371,439; Mar. 15; v. 284; p. 430.
- Book and holder, Receipt and receipt-. S. M. Green. No. 1,364,499; Jan. 4; v. 282; p. 88.
- Book and like support. W. Mockridge. No. 1,377,907; May 10; v. 286; p. 349.
- Book and manifolding, Manifolding-. C. B. Davidson. No. 1,392,748; Oct. 4.
- Book and supplies for use therewith, Balance-. T. C. Parsons. No. 1,364,408; Jan. 4; v. 282; p. 70.
- Book and tray stand, Handy. A. G. Greenwood. No. 1,396,700; Nov. 8.
- Book, Car-record. F. C. King. No. 1,388,048; Aug. 16; v. 289; p. 537.
- Book, Check-. H. A. Prizer. No. 1,401,279; Dec. 27.
- Book, Code-. G. Bonnell. No. 1,372,797; Mar. 29; v. 284; p. 789.
- Book, Commutation-. H. B. Titcomb. No. 1,370,244; Mar. 1; v. 284; p. 93.
- Book construction. R. G. Soderberg. No. 1,387,206; Aug. 9; v. 289; p. 317.
- Book-cover. J. G. Miles. No. 1,365,334; Jan. 11; v. 282; p. 292.
- Book-cover. J. G. Miles. No. 1,365,335; Jan. 11; v. 282; p. 292.
- Book-cover. W. M. Rhoads. No. 1,397,605; Nov. 22.
- Book-cover cleaner. H. P. Lindback. No. 1,370,657; Mar. 8; v. 284; p. 217.
- Book cover, Sales-. E. E. Strawn. No. 1,398,530; Nov. 29.
- Book-covers, Apparatus for cleaning. J. E. Cross. No. 1,387,884; Aug. 16; v. 289; p. 505.
- Book covering and binding machine. C. A. Juengst. No. 1,389,762; Sept. 6; v. 290; p. 40.
- Book, Deposit-. G. H. Kent. No. 1,389,561; Aug. 30; v. 289; p. 949.
- Book-filler. A. R. Towers. No. 1,375,742; Apr. 26; v. 285; p. 591.
- Book, Flexible bound. F. J. Wilkins. No. 1,380,694; June 7; v. 287; p. 70.
- Book formed with several turning-arms, Device for automatically turning over leaves of a. A. W. Riebe. No. 1,395,143; Oct. 25.
- Book-frame and label-holder. G. A. Annable. No. 1,396,910; Nov. 15.
- Book-holder. E. Brauchli. No. 1,385,663; July 26; v. 288; p. 703.
- Book-holder. W. R. Handley. No. 1,376,272; Apr. 26; v. 285; p. 692.
- Book-holder. A. C. Hinzman. No. 1,391,112; Sept. 20; v. 290; p. 467.
- Book-holder. J. A. Nakoney. No. 1,392,200; Sept. 27; v. 290; p. 760.
- Book-holder. S. T. Thompson. No. 1,390,938; Sept. 13; v. 290; p. 369.
- Book-holder, Portable. J. Koblos. No. 1,379,766; May 31; v. 286; p. 900.
- Book, Loose-leaf. T. E. Heeter. No. 1,389,658; Sept. 6; v. 290; p. 20.
- Book, Loose-leaf. B. G. Martin. No. 1,400,891; Dec. 20.
- Book-making machine. J. H. Koch and W. J. Larsen. No. 1,372,236; Mar. 22; v. 284; p. 640.
- Book, Manifold-. C. W. Potter. No. 1,382,798; June 28; v. 287; p. 635.
- Book or binder, Loose-leaf. J. W. Myatt. No. 1,368,188; Feb. 8; v. 283; p. 312.
- Book or folder. E. B. M. Wortman. No. 1,383,366; July 5; v. 288; p. 22.
- Book, Record and reference. A. R. Towers. (Reissue.) No. 15,189; Sept. 6; v. 289; p. 140.
- Book, Removable pass-. M. P. Exline. No. 1,377,120; May 3; v. 286; p. 141.
- Book-stitching machines, Automatic feeder for. W. A. Heitshu. No. 1,399,555; Dec. 6.
- Book-stitching machines, Signature-feeding mechanism for. M. Christensen. No. 1,400,725; Dec. 20.
- Book-stop, Folding. L. E. Burzynski. No. 1,370,279; Mar. 1; v. 284; p. 99.
- Book-support. A. Rodow. No. 1,389,700; Sept. 6; v. 290; p. 28.
- Book-support and writing-table. H. S. Taylor. No. 1,377,230; May 10; v. 286; p. 218.
- Book with ruler, Blank. E. van Wickle. No. 1,372,324; Mar. 22; v. 284; p. 657.
- Books, Combination-lock for pocket-. T. Davidenia. No. 1,364,836; Jan. 4; v. 282; p. 152.
- Books, Covering for. W. H. Edwards. No. 1,375,040; Apr. 19; v. 285; p. 425.
- Books, Manufacture of. R. B. Matthews. No. 1,391,199; Sept. 20; v. 290; p. 484.
- Books or leaves, Binder or reinforcing strip for. O. L. Koch, Jr. No. 1,368,807; Feb. 15; v. 283; p. 481.
- Bookbinding. J. C. Dawson. No. 1,371,739; Mar. 15; v. 284; p. 488.
- Bookbinding. O. Lütolf. No. 1,374,305; Apr. 12; v. 285; p. 220.
- Bookbinding-machine. C. Gitzendanner. No. 1,380,294; May 31; v. 286; p. 1001.
- Bookbinding-machine. W. B. Story. No. 1,380,265; May 31; v. 286; p. 995.
- Bookcase. J. C. Farquhar. No. 1,379,091; May 24; v. 286; p. 699.
- Bookcase and magazine-holder. W. C. Wilson. No. 1,374,269; Apr. 12; v. 285; p. 213.
- Bookkeeping apparatus and the like. F. M. Holmes. No. 1,389,872; Sept. 6; v. 290; p. 63.



*Alphabetical list of inventions—Continued.*

- Bookkeeping-machines, &c., Desk for. J. H. Knauff. No. 1,384,530; July 12; v. 288; p. 313.
- Bookkeeping-page. R. M. Nash. No. 1,368,046; Feb. 8; v. 283; p. 284.
- Bookmark. H. C. French. No. 1,385,991; Aug. 2; v. 289; p. 5.
- Bookmark, Adjustable. S. M. Abbott. No. 1,380,031; May 31; v. 286; p. 951.
- Bookstand. E. Mayhew. No. 1,376,212; Apr. 26; v. 285; p. 681.
- Boom, Sectional. J. T. Horton. No. 1,365,998; Jan. 18; v. 282; p. 461.
- Booster. J. Oliphant. No. 1,401,946; Dec. 27.
- Booster-motor support. H. M. Pfleger. No. 1,401,553; Dec. 27.
- Boot. F. Bonelli. No. 1,381,538; June 14; v. 287; p. 282.
- Boot and manufacturing the same under differential of pressures, Rubber. J. Alm and J. Hughes. No. 1,368,682; Feb. 15; v. 283; p. 457.
- Boot and shoe. F. Pageau. No. 1,386,657; Aug. 9; v. 289; p. 207.
- Boot and shoe. F. E. Roberts. No. 1,370,363; Mar. 1; v. 284; p. 115.
- Boot and shoe. W. F., J. A., and F. D. Stephan. No. 1,400,836; Dec. 20.
- Boot and shoe and making same. A. L. Clapp. No. 1,380,865; June 7; v. 287; p. 104.
- Boot and shoe insole. F. E. Rice and W. A. Rush. No. 1,374,030; Apr. 5; v. 285; p. 125.
- Boot and shoe sole, Composite. A. D. Nearon. No. 1,392,201; Sept. 27; v. 290; p. 761.
- Boot and shoe stretcher. L. Walker. No. 1,394,871; Oct. 25.
- Boot and shoe toe protector. W. O. Bunnell and Q. A. Gates. No. 1,383,905; July 5; v. 288; p. 134.
- Boot and shoe, Vulcanized. L. A. Trull. No. 1,374,480; Apr. 12; v. 285; p. 254.
- Boot, Blow-out. J. A. Barnes. No. 1,364,677; Jan. 4; v. 282; p. 121.
- Boot, Horse-. J. H. McKenzle. No. 1,395,689; Nov. 1.
- Boot, Kicking-. W. Nelson. No. 1,386,523; Aug. 2; v. 289; p. 109.
- Boot or shoe former. A. Schoshusen. No. 1,385,719; July 26; v. 288; p. 715.
- Boot-protector. T. R. Lulham. No. 1,379,458; May 24; v. 286; p. 769.
- Boot-top. C. Tweedle. No. 1,368,771; Feb. 15; v. 283; p. 474.
- Boots and shoes, Machine for use in lasting. F. W. Ward. No. 1,400,703; Dec. 20.
- Boots and shoes, Making. F. E. Roberts. No. 1,383,237; June 28; v. 287; p. 718.
- Boots and shoes, Making. F. E. Roberts. No. 1,383,238; June 28; v. 287; p. 718.
- Boots and shoes, Pulling-over machine for. M. M. Sørensen. No. 1,382,564; June 21; v. 287; p. 536.
- Boots and shoes, Sole for. J. E. Grosjean. No. 1,399,766; Dec. 13.
- Boots and shoes, Treering device for. H. S. Jones. No. 1,388,046; Aug. 16; v. 289; p. 537.
- Boots or shoes, Box for the toe portions of. R. W. Bierer. No. 1,373,855; Apr. 5; v. 285; p. 92.
- Boots or shoes, Heel-protector for. A. Harribey and E. Combecave. No. 1,366,177; Jan. 18; v. 282; p. 496.
- Boots, rubber overshoes, and like articles, Repair outfit for. F. C. McCollum and C. F. Everett. No. 1,372,179; Mar. 22; v. 284; p. 628.
- Boots, shoes, and the like, Last for. W. A. Wilson. No. 1,364,468; Jan. 4; v. 282; p. 82.
- Boots, shoes, &c., by hand, Adjustable last for use in making and repairing. F. Johnson. No. 1,395,578; Nov. 1.
- Booth. P. M. Busick. No. 1,375,557; Apr. 19; v. 285; p. 523.
- Booth, Knockdown voting-. W. H. Joy and H. G. Porter. No. 1,393,224; Oct. 11.
- Booth, Painting-. H. A. House, Jr. No. 1,368,338; Feb. 15; v. 283; p. 393.
- Borax from saline waters, Recovering. G. B. Burnham. No. 1,370,278; Mar. 1; v. 284; p. 99.
- Bore-verifying apparatus. L. Rouanet. No. 1,382,859; June 28; v. 287; p. 646.
- Bores, Tool for removing drillings from. H. Buttram. No. 1,377,665; May 10; v. 286; p. 302.
- Boring and drilling machine. I. Henne and J. L. Preo. No. 1,369,656; Feb. 22; v. 283; p. 685.
- Boring and grinding cylinders, Lathe attachment for. C. I. Kephart. No. 1,388,576; Aug. 23; v. 289; p. 698.
- Boring and milling machine. G. F. Kriesel. No. 1,369,749; Feb. 22; v. 283; p. 704.
- Boring and milling tool. H. Sargeson. No. 1,385,052; July 19; v. 288; p. 502.
- Boring and other cutting tool. G. Williamson. No. 1,384,652; July 12; v. 288; p. 339.
- Boring and routing machine. D. S. Scott. No. 1,366,680; Jan. 25; v. 282; p. 639.
- Boring and threading tool. D. D. Wells. No. 1,382,447; June 21; v. 287; p. 514.
- Boring apparatus, Earth-. A. R. Mangnall. No. 1,370,031; Mar. 1; v. 284; p. 52.
- Boring-bar. A. R. Swanson. No. 1,381,943; June 21; v. 287; p. 419.
- Boring-bar. J. Van Der Vorn. No. 1,400,642; Dec. 20.
- Boring-bar, Portable. W. F. Chellberg. No. 1,391,045; Sept. 20; v. 290; p. 453.
- Boring-bit, Extension. L. S. Hayden. No. 1,398,780; Nov. 29.
- Boring-drill. G. W. Hanson. No. 1,398,551; Nov. 29.
- Boring-machine. P. Bosch. No. 1,373,856; Apr. 5; v. 285; p. 92.
- Boring-machine. W. F. McCarty. No. 1,392,778; Oct. 4.
- Boring-machine. C. A. Smith. No. 1,394,766; Oct. 25.
- Boring machine, Earth-. W. E. Moore. No. 1,375,640; Apr. 19; v. 285; p. 539.
- Boring-machine, Multiple-spindle. H. B. Brueggemann. No. 1,367,945; Feb. 8; v. 283; p. 266.
- Boring machine, Post-hole-. E. M. Goldner. No. 1,370,530; Mar. 1; v. 284; p. 128.
- Boring-tool. R. R. Davis. No. 1,392,304; Oct. 4.
- Boring-tool, Adjustable. O. Nelson. No. 1,392,203; Sept. 27; v. 290; p. 761.
- Boring tool, Electrician's joist-. J. C. Moore. No. 1,391,844; Sept. 27; v. 290; p. 688.
- Boring-tool holder. J. C. Stanton. No. 1,397,786; Nov. 22.
- Boring-tools, Reinforcing-tube for. S. M. Chase. No. 1,386,687; Aug. 9; v. 289; p. 215.
- Bottle. L. B. Newell. No. 1,399,313; Dec. 6.
- Bottle attachment. F. A. Hite. No. 1,386,501; Aug. 2; v. 289; p. 104.
- Bottle attachment. F. J. Mahoney. No. 1,385,085; July 19; v. 288; p. 509.
- Bottle attachment, Milk-. A. R. Schrader. No. 1,381,754; June 14; v. 287; p. 324.
- Bottle-cap. R. Stock. No. 1,372,322; Mar. 22; v. 284; p. 657.
- Bottle-cap. R. Stock. No. 1,376,477; May 3; v. 286; p. 19.
- Bottle-cap. R. Stock. No. 1,376,478; May 3; v. 286; p. 19.
- Bottle-cap. R. Stock. No. 1,400,918; Dec. 20.
- Bottle-cap and sealing bottles. T. L. Tallaferro. No. 1,381,365; June 14; v. 287; p. 250.
- Bottle-cap extractor. J. W. Cole. No. 1,379,171; May 24; v. 286; p. 715.
- Bottle cap, Milk-. I. Davis. No. 1,394,409; Oct. 18.
- Bottle cap, Milk-. W. A. Ginnery and E. O. Sloan. No. 1,367,692; Feb. 8; v. 283; p. 218.
- Bottle-cap remover. D. Haslup. No. 1,376,692; May 3; v. 286; p. 58.
- Bottle-cap remover and retainer, Milk-. O. Carlson. No. 1,382,820; June 28; v. 287; p. 639.
- Bottle-cap-tubing machine, Milk-. P. R. Simmons. No. 1,399,586; Dec. 6.
- Bottle-capper. H. G. Rice. No. 1,376,583; May 3; v. 286; p. 39.
- Bottle-capper. H. G. Rice. (Reissue.) No. 15,222; Nov. 8.
- Bottle-capper. L. M. Rouse. No. 1,389,786; Sept. 6; v. 290; p. 46.
- Bottle-capper. J. J. Tokheim. No. 1,376,906; May 3; v. 286; p. 101.
- Bottle-capper. H. L. Vaughan. No. 1,366,755; Jan. 25; v. 282; p. 655.
- Bottle-cappers, Cap-feeder for. E. F. Edgecomb, Jr. No. 1,391,648; Sept. 20; v. 290; p. 575.
- Bottle-capping and wire-removing machine. R. J. Canton. No. 1,381,278; June 14; v. 287; p. 234.
- Bottle-capping apparatus. C. G. Belden. No. 1,397,617; Nov. 22.
- Bottle-capping apparatus. S. W. Taylor. No. 1,392,980; Oct. 11.
- Bottle-capping device. E. M. Letts. Nos. 1,401,800-1; Dec. 27.
- Bottle-capping device. A. C. Massie. No. 1,386,131; Aug. 2; v. 289; p. 34.
- Bottle-capping device. H. H. Wampler. No. 1,369,205; Feb. 22; v. 283; p. 597.
- Bottle-capping device. F. G. Yawman. No. 1,379,429; May 24; v. 286; p. 764.
- Bottle-capping machine. G. C. and W. F. Adams. No. 1,389,111; Aug. 30; v. 289; p. 859.
- Bottle-capping machine. H. E. Asbury. No. 1,397,394; Nov. 15.
- Bottle-capping machine. C. L. Beardsley. No. 1,385,298; July 19; v. 288; p. 552.
- Bottle-capping machine. H. L. Brown. No. 1,379,161; May 24; v. 286; p. 713.
- Bottle-capping machine. H. K. Curtis and L. T. Hunter. No. 1,391,647; Sept. 20; v. 290; p. 575.
- Bottle-capping machine. C. B. Melchior. No. 1,365,182; Jan. 11; v. 282; p. 263.
- Bottle-capping tool. J. K. E. Diffenderffer. No. 1,381,622; June 14; v. 287; p. 297.
- Bottle-capping tool. M. Kasson. No. 1,395,499; Nov. 1.
- Bottle carrier and support. O. Fitzsimmons. No. 1,391,537; Sept. 20; v. 290; p. 553.
- Bottle carrier, Milk-. W. Hoskin. No. 1,377,350; May 10; v. 286; p. 243.
- Bottle-case, Knockdown. A. L. Wagstaff. No. 1,364,968; Jan. 11; v. 282; p. 222.
- Bottle-closure. S. Czerny. No. 1,368,703; Feb. 15; v. 283; p. 461.
- Bottle-closure. C. J. Schuster. No. 1,369,843; Mar. 1; v. 284; p. 17.



*Alphabetical list of inventions—Continued.*

- Bottle-closure. F. H. Silverthorne. No. 1,390,549; Sept. 13; v. 290; p. 290.
- Bottle closure, Dispensing-. W. F. Ellis and A. J. Garland. No. 1,377,568; May 10; v. 286; p. 283.
- Bottle-closures, Machine for the manufacture of. J. Binder. No. 1,381,055; June 7; v. 287; p. 141.
- Bottle-closures, Machine for the manufacture of. J. Binder. No. 1,387,037; Aug. 9; v. 289; p. 285.
- Bottle-conveying machine. J. Jimas. No. 1,399,260; Dec. 6.
- Bottle-crates, Bottom for. L. H. Payne. No. 1,385,709; July 26; v. 288; p. 713.
- Bottle-crowner. J. J. Gaynor. No. 1,381,628; June 14; v. 287; p. 299.
- Bottle-crowning machine. J. H. Konefes. No. 1,379,106; May 24; v. 286; p. 702.
- Bottle-crowning machine. M. Marsa. No. 1,379,118; May 24; v. 286; p. 705.
- Bottle, Drenching-. E. Rhodes. No. 1,383,426; July 5; v. 288; p. 35.
- Bottle-feeding mechanism, Intermittent driving device for. J. C. Miller. No. 1,373,143; Mar. 29; v. 284; p. 858.
- Bottle filling and closing machine. K. K. Wright and R. N. Cundall. No. 1,386,299; Aug. 2; v. 289; p. 67.
- Bottle filling and sealing machine. A. Calleson. No. 1,365,454; Jan. 11; v. 282; p. 316.
- Bottle-filling apparatus. F. W. Müller. No. 1,384,537; July 12; v. 288; p. 314.
- Bottle-filling apparatus. F. W. Müller. No. 1,384,538; July 12; v. 288; p. 315.
- Bottle-filling apparatus. F. W. Müller. No. 1,387,507; Aug. 16; v. 289; p. 430.
- Bottle-filling machine. G. B. Chellus. No. 1,379,249; May 24; v. 286; p. 729.
- Bottle-holder. L. L. Armstrong. No. 1,390,266; Sept. 13; v. 290; p. 234.
- Bottle-holder. J. A. Brant. No. 1,386,392; Aug. 2; v. 289; p. 84.
- Bottle-holder. C. E. Callahan. No. 1,368,544; Feb. 15; v. 283; p. 430.
- Bottle-holder. C. Flannery. No. 1,381,071; June 7; v. 287; p. 144.
- Bottle-holder. A. A. Lockwood. No. 1,369,928; Mar. 1; v. 284; p. 33.
- Bottle holder, Milk-. W. Molenaar. No. 1,367,557; Feb. 8; v. 283; p. 192.
- Bottle, Hot-water. W. E. Swift. No. 1,387,953; Aug. 16; v. 289; p. 519.
- Bottle, Milk-. J. F. Burns. No. 1,366,056; Jan. 18; v. 282; p. 472.
- Bottle, Milk-. F. Grant. No. 1,384,129; July 12; v. 288; p. 230.
- Bottle-mouth guard, Sanitary. J. N. Pringle. No. 1,382,318; June 21; v. 287; p. 489.
- Bottle-neck packing-joint. S. Kaye. No. 1,367,663; Feb. 8; v. 283; p. 212.
- Bottle, Non-refillable. F. Sideris. No. 1,370,708; Mar. 8; v. 284; p. 227.
- Bottle, Nursing-. L. T. La Paugh. No. 1,375,917; Apr. 26; v. 285; p. 624.
- Bottle-opener. S. T. Arnold. No. 1,376,994; May 3; v. 286; p. 117.
- Bottle-opener. E. S. White and A. W. Kelin. No. 1,366,045; Jan. 18; v. 282; p. 470.
- Bottle opener, Milk-. R. McHardy. No. 1,368,406; Feb. 15; v. 283; p. 402.
- Bottle or can washing machine. W. G. Mason. No. 1,400,894; Dec. 20.
- Bottle receptacle, Milk-. W. Kashur. No. 1,397,427; Nov. 15.
- Bottle retainer, Milk-. J. V. Cannizzaro. No. 1,394,142; Oct. 18.
- Bottle-sealing machine. A. Calleson. No. 1,377,395; May 10; v. 286; p. 251.
- Bottle-sealing machine. A. Calleson. No. 1,386,313; Aug. 2; v. 289; p. 70.
- Bottle-sealing machine. C. J. Lawson. No. 1,369,034; Feb. 22; v. 283; p. 564.
- Bottle-stopper. L. C. Isaacson. No. 1,364,375; Jan. 4; v. 282; p. 63.
- Bottle-stopper. A. G. Sherman. No. 1,375,471; Apr. 19; v. 285; p. 507.
- Bottle-stopper. F. H. Silverthorne. No. 1,366,289; Jan. 18; v. 282; p. 518.
- Bottle-stopper. L. Simenowsky. No. 1,369,477; Feb. 22; v. 283; p. 650.
- Bottle-stopper. L. F. Watkins and G. W. Wilton. No. 1,375,030; Apr. 19; v. 285; p. 423.
- Bottle stopper, Milk-. B. F. Morledge. No. 1,372,715; Mar. 29; v. 284; p. 773.
- Bottle-stopper remover, Milk-. T. W. Saul. No. 1,387,014; Aug. 9; v. 289; p. 281.
- Bottle support, Milk-. D. Dunn. No. 1,378,403; May 17; v. 286; p. 495.
- Bottle, Thermos. G. S. Meikle. No. 1,388,189; Aug. 23; v. 289; p. 621.
- Bottle top, Milk-. A. Cuomo. No. 1,374,719; Apr. 12; v. 285; p. 300.
- Bottle top, Poison-. S. Teece. No. 1,367,841; Feb. 8; v. 283; p. 247.
- Bottle, Vacuum-. C. F. P. Anders. No. 1,387,337; Aug. 9; v. 289; p. 345.
- Bottle-washers, Unloader for. G. J. Meyer. No. 1,383,739; July 5; v. 288; p. 100.
- Bottle, Water-. W. H. Miller. No. 1,374,088; Apr. 5; v. 285; p. 138.
- Bottles and other containers, Apparatus for the progressive heating or cooling of milk-. G. M. S. Tait. No. 1,393,717; Oct. 11.
- Bottles and other containers, Closure for. T. C. Spelling. No. 1,384,573; July 12; v. 288; p. 322.
- Bottles and other containers, Closure for. T. C. Spelling. No. 1,390,832; Sept. 13; v. 290; p. 347.
- Bottles and other containers, Closure for. T. C. Spelling. No. 1,390,833; Sept. 13; v. 290; p. 348.
- Bottles and other containers, Combinations of closures and pullers for. T. C. Spelling. No. 1,377,527; May 10; v. 286; p. 275.
- Bottles and the like articles, Packing. A. Mackinnon. No. 1,367,069; Feb. 1; v. 283; p. 37.
- Bottles and the like, Fountain-stopper for ink-. J. O. Smith. No. 1,366,428; Jan. 25; v. 282; p. 589.
- Bottles, Apparatus for inverting. R. H. Dyer. No. 1,373,604; Apr. 5; v. 285; p. 44.
- Bottles, Apparatus for washing and sterilizing. F. S. Burnham. No. 1,400,797; Dec. 20.
- Bottles, Attachment for ink-. H. Wolff. No. 1,380,129; May 31; v. 286; p. 970.
- Bottles, Attachment for nursing. A. Gerstner. No. 1,366,727; Jan. 25; v. 282; p. 649.
- Bottles, Brush for cleaning. C. Klauberg. No. 1,377,690; May 10; v. 286; p. 306.
- Bottles, Combination opening device for. M. Schiano. No. 1,367,432; Feb. 1; v. 283; p. 109.
- Bottles, Frame for nursing-. L. T. La Paugh. No. 1,374,667; Apr. 12; v. 285; p. 291.
- Bottles, Machine for capping. B. L. Kinney. No. 1,377,779; May 10; v. 286; p. 324.
- Bottles, &c., Machine for filling. J. F. Geyer. No. 1,401,150; Dec. 27.
- Bottles, Machine for making caps and for applying same to. A. A. Rosengren. No. 1,377,279; May 10; v. 286; p. 228.
- Bottles, &c., Machine for manufacturing closures for. E. and J. Alberti. No. 1,401,300; Dec. 27.
- Bottles, Packing. M. R. Kondolf. No. 1,378,356; May 17; v. 286; p. 486.
- Bottles, Portable hand-tool for capping and sealing. A. O. Handford. No. 1,366,259; Jan. 18; v. 282; p. 512.
- Bottles, Reading device for test-. E. H. J. Lorenz. No. 1,366,397; Jan. 25; v. 282; p. 582.
- Bottles, Receptacle for. B. Dougan. No. 1,383,453; July 5; v. 288; p. 41.
- Bottles, Safety-holder for milk-. J. H. Wilhelm. No. 1,392,809; Oct. 4.
- Bottles, Stopper for water-. M. C. Schweinert. No. 1,383,767; July 5; v. 288; p. 106.
- Bottling-machines, Dispensing-nozzle for. W. M. Fowler. No. 1,376,088; Apr. 26; v. 285; p. 657.
- Bourdon tube. H. W. Ibbott. No. 1,385,133; July 19; v. 288; p. 620.
- Bow and necktie. G. A. A. King. No. 1,383,214; June 28; v. 287; p. 714.
- Bow-holder. E. E. Hamilton. No. 1,392,684; Oct. 4.
- Bow-necktie fastener. M. Ford. No. 1,391,102; Sept. 20; v. 290; p. 465.
- Bow rest and clamping device. H. B. White. No. 1,381,853; June 14; v. 287; p. 342.
- Bowl Gazing-. L. M. Anderson. No. 1,388,789; Aug. 23; v. 289; p. 740.
- Bowl, Mixing-. A. S. Diack. No. 1,394,540; Oct. 25.
- Bowl, Nut-. L. and H. Farber. No. 1,392,134; Sept. 27; v. 290; p. 747.
- Bowl, Serving-. F. W. Luddy. No. 1,375,401; Apr. 19; v. 285; p. 494.
- Bowl, Stock-watering. W. Mitchell. No. 1,365,934; Jan. 18; v. 282; p. 449.
- Bowl, Washing-. C. P. Bohland. No. 1,399,925; Dec. 13.
- Bowling-alley-resurfacing device. L. N. Lareau and O. J. Rainville. No. 1,378,473; May 17; v. 286; p. 509.
- Bowling-alley return-troughs, Attachment for. W. Choiniski. No. 1,388,239; Aug. 23; v. 289; p. 632.
- Bowling mechanism, Automatic. O. J. Fairchild. No. 1,375,835; Apr. 26; v. 285; p. 608.
- Bowling-pin. R. J. Wilkie. No. 1,393,655; Oct. 11.
- Box: See—
- |                          |                              |
|--------------------------|------------------------------|
| Adjustable driving-box.  | Collapsible box.             |
| Amalgamating sluice-box. | Collapsible paper box.       |
| Annealing-box.           | Collar-box.                  |
| Artist's color-box.      | Combination toilet-box.      |
| Automobile tool-box.     | Compartment-box.             |
| Battery-box.             | Core-box.                    |
| Bellows-box.             | Counter display folding box. |
| Berry-box.               | Crayon-box.                  |
| Bit-box.                 | Display-box.                 |
| Caddy-box.               | Easel display-box.           |
| Camp table and box.      | Electric cut-out box.        |
| Candy-display box.       | Electric socket-box.         |
| Car journal-box.         | Exhaust-box.                 |
| Cheese-box.              | Fare-box.                    |
| Chick-box.               | Fare-collecting box.         |
| Cigar-box.               | Flower-box.                  |
| Coin-box.                | Foldable box.                |



## Alphabetical list of inventions--Continued.

## Box: See--Continued.

- Folded blank box.  
Folding box.  
Folding cardboard box.  
Folding loose-bottom box.  
Fuse-box.  
Fuse switch-box.  
Garbage-box.  
Gas-mantle box.  
Gear-box.  
Ground-box.  
Hatbox.  
Hinge-cover box.  
Hog-box.  
Ice-box.  
Jewelry-box.  
Journal-box.  
Knockdown box.  
Knockdown packing-box.  
Letter-box.  
Locomotive driving-box.  
Locomotive - driving - axle journal-box.  
Locomotive fire-box.  
Lubricated stuffing-box.  
Mail-box.  
Match-box.  
Miter-box.  
Money-collection box.  
Nest-box.  
Outlet-box.  
Packing-box.  
Paper box.  
Phonograph sound-box.  
Box. L. Binder. No. 1,385,068; July 19; v. 288; p. 506.  
Box. E. A. Dreher. No. 1,371,776; Mar. 15; v. 284; p. 495.  
Box. J. B. Fox. No. 1,390,116; Sept. 6; v. 290; p. 113.  
Box. H. J. Gaisman. No. 1,367,035; Feb. 1; v. 283; p. 30.  
Box. H. J. Gaisman. No. 1,367,036; Feb. 1; v. 283; p. 30.  
Box. E. A. Haynes. No. 1,379,100; May 24; v. 286; p. 701.  
Box. A. J. Heyden. No. 1,364,277; Jan. 4; v. 282; p. 45.  
Box. J. M. Hothersall. No. 1,380,908; June 7; v. 287; p. 112.  
Box. R. G. Inwood. No. 1,383,952; July 5; v. 288; p. 143.  
Box. S. Koff. No. 1,401,794; Dec. 27.  
Box. G. E. Krause. No. 1,369,819; Mar. 1; v. 284; p. 13.  
Box. W. W. Reid. No. 1,398,154; Nov. 22.  
Box. A. A. Thomas. No. 1,364,594; Jan. 4; v. 282; p. 104.  
Box. H. H. Wells. No. 1,387,084; Aug. 9; v. 289; p. 295.  
Box. E. Zeldier. No. 1,391,038; Sept. 20; v. 290; p. 452.  
Box and attachment therefor. E. C. J. Lloyd. No. 1,373,622; Apr. 5; v. 285; p. 47.  
Box and blank therefor, Foldable. H. L. Fellowes. No. 1,369,642; Feb. 22; v. 283; p. 682.  
Box and making same. R. G. Inwood. (Reissue.) No. 15,069; Mar. 22; v. 284; p. 722.  
Box and process and manufacture thereof. A. G. Wetmore. No. 1,394,593; Oct. 25.  
Box and stand, Convertible. A. W. Smith. No. 1,382,393; June 21; v. 287; p. 504.  
Box-blank. J. Srofe. No. 1,388,006; Aug. 16; v. 289; v. 289; p. 529.  
Box-blank machine. E. Craig. No. 1,384,239; July 12; v. 288; p. 252.  
Box-blank machine. O. C. Thompson. (Reissue.) No. 15,045; Feb. 15; v. 283; p. 518.  
Box-blank machines, Feed mechanism for wire-bound. H. G. Mead. No. 1,397,439; Nov. 15.  
Box-blanks, Machine for notching. J. A. Moore. No. 1,379,275; May 24; v. 286; p. 734.  
Box-car end. W. H. Miner. No. 1,391,066; Sept. 20; v. 290; p. 457.  
Box construction. J. R. Pearsall. No. 1,376,036; Apr. 26; v. 285; p. 647.  
Box-corner construction. W. Tisch. No. 1,383,499; July 5; v. 288; p. 50.  
Box-corners by creasing, Apparatus for forming. B. A. Lange. No. 1,390,756; Sept. 13; v. 290; p. 340.  
Box-cover and fastening for same. C. Flagstad. No. 1,371,883; Mar. 15; v. 284; p. 515.  
Box-fastener. H. R. Holbrook. No. 1,369,659; Feb. 22; v. 283; p. 686.  
Box-fastenings, Strap for. W. D. Kimball. No. 1,376,855; May 3; v. 286; p. 91.  
Box-filling machine. J. C. Donnelly. No. 1,386,243; Aug. 2; v. 289; p. 56.  
Box-filling machine. J. P. Wright. No. 1,399,039; Dec. 6.  
Box-filling machines, Shuck-feeding mechanism for. H. C. Schumacher. No. 1,388,668; Aug. 23; v. 289; p. 716.  
Box-finishing machine. A. Bell. No. 1,392,102; Sept. 27; v. 290; p. 741.  
Box for articles of perfumery. J. A. L. Dumons. No. 1,370,294; Mar. 1; v. 284; p. 102.  
Box for artificial silk, Spinning. J. Clayton. No. 1,385,306; July 19; v. 288; p. 553.  
Box for cash-carriers. J. F. Morris. No. 1,381,582; June 14; v. 287; p. 291.  
Box-forming machine. D. M. Bernotow. No. 1,378,579; May 17; v. 286; p. 529.  
Box-forming machine. C. L. Brown. No. 1,375,275; Apr. 19; v. 285; p. 470.  
Box-gluing apparatus. O. A. Lucas. No. 1,390,052; Sept. 6; v. 290; p. 100.  
Box-handler. W. H. Berry. No. 1,366,763; Jan. 25; v. 282; p. 656.  
Box-handling device. J. G. Hartman. No. 1,386,929; Aug. 9; v. 289; p. 264.  
Box head, Brass liner stuffing. A. D. Purdie. No. 1,394,114; Oct. 18.  
Box-holder. R. H. Boyce. No. 1,388,089; Aug. 16; v. 289; p. 545.  
Box-holder. W. C. O'Kane. No. 1,375,856; Apr. 26; v. 285; p. 612.  
Box-lid holder. T. D. Anagnostopoulos. No. 1,388,147; Aug. 16; v. 289; p. 556.  
Box-lids, Support for. J. M. Waddell. No. 1,399,830; Dec. 13.  
Box-lining mechanism. W. S. Weber. No. 1,383,682; July 5; v. 288; p. 88.  
Box-machine guide. J. H. Ostner. No. 1,365,538; Jan. 11; v. 282; p. 332.  
Box-machine plunger. F. M. Joslin. No. 1,365,920; Jan. 18; v. 282; p. 446.  
Box machine, Wire-bound. C. H. Bombardie. No. 1,371,599; Mar. 15; v. 284; p. 462.  
Box-making bench. W. G. Price. No. 1,378,899; May 24; v. 286; p. 663.  
Box-making machine. C. H. Bombardie. No. 1,371,598; Mar. 15; v. 284; p. 461.  
Box-making machine. H. A. Denmire. No. 1,391,669; Sept. 27; v. 290; p. 653.  
Box-making machine. C. Eikler. No. 1,365,471; Jan. 11; v. 282; p. 319.  
Box-making machine. A. J. Evers. No. 1,385,988; Aug. 2; v. 289; p. 5.  
Box-making machine. J. W. Hughes. No. 1,401,407; Dec. 27.  
Box-making machine. R. G. Inwood. No. 1,371,487; Mar. 15; v. 284; p. 440.  
Box-making machine. M. J. Milmoie. No. 1,395,446; Nov. 1.  
Box-nailing machine. A. N. Riggs. No. 1,397,054; Nov. 15.  
Box-making machine. H. J. Sauvage. No. 1,376,361; Apr. 26; v. 285; p. 709.  
Box-making machines, Feeding mechanism for. H. Brady and A. W. Hilsinger. No. 1,370,514; Mar. 8; v. 284; p. 188.  
Box-marker. S. J. Thomas. No. 1,377,941; May 10; v. 286; p. 356.  
Box-opener. C. L. Hahn. No. 1,399,618; Dec. 6.  
Box-opener. L. F. Lange. No. 1,364,286; Jan. 4; v. 282; p. 47.  
Box-opener. E. Laskowski. No. 1,396,373; Nov. 8.  
Box opener, Polish. Z. G. Ramon. No. 1,381,743; June 14; v. 287; p. 322.  
Box or carrier for live birds. A. E. Bersey. No. 1,387,759; Aug. 16; v. 289; p. 481.  
Box or case, Security. R. H. Duncan. No. 1,394,981; Oct. 25.  
Box or container. C. G. Hornung. No. 1,376,939; May 3; v. 286; p. 107.  
Box or container, Face-powder. F. Mousley. No. 1,370,833; Mar. 8; v. 284; p. 250.  
Box or crate. H. Brown. (Reissue.) No. 15,100; May 10; v. 286; p. 367.  
Box or crate, Folding. C. F. Fehling. No. 1,394,295; Oct. 18.  
Box or crate, Folding. A. von Schluembach. No. 1,376,487; May 3; v. 286; p. 21.  
Box or crate, Knockdown shipping. D. Lowenhaupt and C. D. Rowe. No. 1,379,196; May 24; v. 286; p. 719.  
Box or receptacle. E. O. Pfefferle. No. 1,395,594; Nov. 1.  
Box or receptacle. O. Woodward. No. 1,378,508; May 17; v. 286; p. 575.  
Box or package handling apparatus. W. G. Price. No. 1,388,200; Aug. 23; v. 289; p. 624.  
Box-printing machine. E. C. Northrup. No. 1,366,925; Feb. 1; v. 283; p. 9.  
Box-printing machine. M. A. Schmidt. No. 1,397,881; Nov. 22.  
Box-protector. W. C. Krause. No. 1,384,391; July 12; v. 288; p. 284.  
Box-sealing machine. W. Peet. No. 1,390,059; Sept. 6; v. 290; p. 101.  
Box-slide-making machine. A. J. Evers and H. J. Sauvage. No. 1,381,176; June 14; v. 287; p. 216.  
Box-stitching machine. C. C. Mengel. No. 1,373,753; Apr. 5; v. 285; p. 72.  
Box-strap. G. G. Gard. No. 1,367,038; Feb. 1; v. 283; p. 31.  
Box structure, Sectional. M. M. Clayton. No. 1,369,083; Feb. 22; v. 283; p. 574.  
Box-taping machine. L. P. Miller and F. E. Johnston. No. 1,379,469; May 24; v. 286; p. 771.



- Boxes and covers, Chart for selecting outlet. H. G. Knoderer. No. 1,390,044; Sept. 6; v. 290; p. 98.
- Boxes and other containers, Device for displaying the covering of. V. A. Joy. No. 1,380,148; May 31; v. 286; p. 973.
- Boxes and other receptacles, Closure for. H. O. N. Boyum. No. 1,376,670; May 3; v. 286; p. 54.
- Boxes, Bottom for soap. D. E. Williamson. No. 1,376,239; Apr. 26; v. 285; p. 686.
- Boxes, Bushing for. P. E. C. Sater. No. 1,394,942; Oct. 25.
- Boxes, crates, &c., Apparatus for use in making. R. G. Crosbie. No. 1,388,408; Aug. 23; v. 289; p. 667.
- Boxes, Fastening device for. W. G. Trohon. No. 1,366,611; Jan. 25; v. 282; p. 626.
- Boxes having rounded corners, Manufacture of corrugated cardboard. A. Bovy. No. 1,368,236; Feb. 15; v. 283; p. 370.
- Boxes, Lubricating device for stuffing. C. J. A. Gottlieb. No. 1,395,815; Nov. 1.
- Boxes, Machine for making compound. L. E. La Bombard. No. 1,370,654; Mar. 8; v. 284; p. 216.
- Boxes, Machine for pressing necks in. C. H. Nitsch. No. 1,397,597; Nov. 22.
- Boxes, Machine for sealing. B. Heinrichs. No. 1,393,122; Oct. 11.
- Boxes, Making. A. A. Adamson and W. F. Grupe. No. 1,381,097; June 14; v. 287; p. 201.
- Boxes, Making. H. B. Smith. No. 1,386,374; Aug. 2; v. 289; p. 81.
- Boxes, Opening device for spinning. J. Clayton. No. 1,373,169; Mar. 29; v. 284; p. 864.
- Boxes, Opening means for. G. N. Hingston. No. 1,381,554; June 14; v. 287; p. 285.
- Boxes or cartons, Machine for sealing. J. A. Moore. No. 1,379,276; May 24; v. 286; p. 735.
- Boxes, Partition structure for. I. M. Hescheles. No. 1,379,563; May 24; v. 286; p. 789.
- Boxes, Partitioning for. L. E. La Bombard. No. 1,382,787; June 28; v. 287; p. 633.
- Boxes, Support for tapered display. A. M. Billstein. No. 1,368,016; Feb. 8; v. 283; p. 279.
- Boxes, Supporting structure for packing. E. E. Kring. No. 1,394,028; Oct. 18.
- Boxes, Unloading device for header. F. Toepfer. No. 1,373,987; Apr. 5; v. 285; p. 119.
- Brace: *See*—
- Back-brace. Radius-rod brace.
- Bit-brace. Rail-brace.
- Boiler-brace. Railway-rail brace.
- Corner-brace. Railway-tie brace.
- Plow-beam brace. Shoulder and body brace.
- Brace, W. N. Tiencken. No. 1,395,876; Nov. 1.
- Brace-head. E. W. Bullard. No. 1,388,921; Aug. 30; v. 289; p. 821.
- Brace-head. E. W. Bullard. No. 1,388,922; Aug. 30; v. 289; p. 821.
- Brace-head. E. W. Bullard. No. 1,388,928; Aug. 30; v. 289; p. 822.
- Brace or support. H. Brown. No. 1,384,299; July 12; v. 288; p. 265.
- Braces, &c., Fastenings for attaching. C. Romati. No. 1,396,344; Nov. 8.
- Braces, Fitting for diagonal. R. R. Bloss and W. Schwemlein. No. 1,388,162; Aug. 23; v. 289; p. 616.
- Bracelet. C. G. King. No. 1,390,360; Sept. 13; v. 290; p. 252.
- Bracelet. W. Wallenthin. No. 1,382,034; June 21; v. 287; p. 436.
- Bracelet. W. C. Wood. No. 1,394,877; Oct. 25.
- Bracelet clasp, Ribbon. R. King. No. 1,389,196; Aug. 30; v. 289; p. 876.
- Bracelets, &c., Latch for. C. G. King. No. 1,390,361; Sept. 18; v. 290; p. 252.
- Bracket: *See*—
- Adjustable shade-bracket. Joist-bracket.
- Action-bracket. Lamp-bracket.
- Attaching-bracket. Lamp-supporting bracket.
- Automobile-bracket. License-bracket.
- Bumper-bracket. Motor-bracket.
- Bumper-attachment bracket. Portable electric bracket.
- Counter-protecting bracket. Radiator-bracket.
- Clothesline-bracket. Roofing-bracket.
- Curtain-bracket. Scaffold-bracket.
- Curtain and shade bracket. Shade-bracket.
- Curtain-pole bracket. Shade and curtain bracket.
- Curtain-pole and shade-roller bracket. Shade-roller bracket.
- Curtain-rod bracket. Supporting-bracket.
- Curtain roller and bracket. Temple-roll bracket.
- Dental-engine bracket. Trunk-bracket.
- Display-counter bracket. Wall-bracket.
- Hanger-bracket. Window-bracket.
- Insulator-bracket. Window-shade bracket.
- Bracket. E. G. Baer. No. 1,375,888; Apr. 26; v. 285; p. 619.
- Bracket. W. M. Folberth. No. 1,394,988; Oct. 25.
- Bracket. E. A. Hawthorne. No. 1,401,402; Dec. 27.
- Bracket. A. Mayer. No. 1,397,105; Nov. 15.
- Bracket. E. Parsons. No. 1,391,495; Sept. 20; v. 290; p. 544.
- Bracket. C. H. Paschke. No. 1,379,934; May 31; v. 286; p. 933.
- Bracket. W. Sparks. No. 1,400,007; Dec. 13.
- Bracket. F. Watt. No. 1,365,012; Jan. 11; v. 282; p. 231.
- Bracket and fastener, Combined. S. Goldner. No. 1,386,468; Aug. 2; v. 289; p. 98.
- Bracket for window-shades, Roller. R. E. Reese. No. 1,385,397; July 26; v. 288; p. 648.
- Bracket-support. G. S. Bartlett. No. 1,396,548; Nov. 8.
- Bracket-supports, Automatic clamp for. H. F. Waite. No. 1,371,011; Mar. 8; v. 284; p. 284.
- Bracket-table, Movable. A. W. Simon. No. 1,373,027; Mar. 29; v. 284; p. 836.
- Braiding-machine. R. W. Brown. No. 1,383,522; July 5; v. 288; p. 54.
- Braiding-machine. A. Littlefield. No. 1,389,672; Sept. 6; v. 290; p. 23.
- Braiding-machine. G. F. McCahey. No. 1,364,291; Jan. 4; v. 282; p. 48.
- Braiding-machine. X. Pfrunder. No. 1,398,444; Nov. 29.
- Braiding-machine carrier. J. B. Hale. No. 1,391,682; Sept. 27; v. 290; p. 655.
- Braiding-machines, Strand-guide for. A. Petersen. No. 1,386,071; Aug. 2; v. 289; p. 22.
- Brake: *See*—
- Air-brake. Friction-brake.
- Airplane-brake. Hand-brake.
- Automatic brake. Internal expanding brake.
- Automobile-brake. Material-feed-reel brake.
- Back-pedaling coaster-brake. Mechanical brake.
- Band-brake. Phonograph-brake.
- Car-brake. Power-brake.
- Centrifugal brake. Rail-engaging brake.
- Clasp-brake. Railway-brake.
- Coaster-brake. Railway-car brake.
- Cushion-brake. Roller-skate brake.
- Differential brake. Rudder-brake.
- Electrically-operated brake. Sled-brake.
- Electromagnetic brake. Sleigh-brake.
- Electropneumatic brake. Truck-brake.
- Emergency-brake. Vacuum-brake.
- Fluid-pressure brake. Vehicle-brake.
- Fluid-pressure rail-brake. Wagon-brake.
- Wheel-brake.
- Brake. F. G. Albhorn. No. 1,400,340; Dec. 13.
- Brake. W. C. Baker. No. 1,385,420; July 26; v. 288; p. 653.
- Brake. C. C. Evans. No. 1,367,128; Feb. 1; v. 283; p. 49.
- Brake. W. T. Harris. No. 1,385,544; July 26; v. 288; p. 679.
- Brake. S. Lankheet. No. 1,397,430; Nov. 15.
- Brake. J. M. Lansden. No. 1,397,590; Nov. 22.
- Brake. W. R. Lee. No. 1,365,925; Jan. 18; v. 282; p. 447.
- Brake. J. C. Rhodes, G. E. Guffey, and J. G. Sheehan. No. 1,372,549; Mar. 22; v. 284; p. 699.
- Brake. C. V. Rote. No. 1,382,551; June 21; v. 287; p. 534.
- Brake. W. G. Wall. No. 1,396,796; Nov. 15.
- Brake adjustment, Safety device for. E. B. Mead. No. 1,373,197; Mar. 29; v. 284; p. 870.
- Brake apparatus, Load. T. H. Thomas. No. 1,390,593; Sept. 13; v. 290; p. 299.
- Brake attachment. W. B. Uffert. No. 1,399,591; Dec. 6.
- Brake-band. H. W. McCulloch. No. 1,371,917; Mar. 15; v. 284; p. 622.
- Brake-band construction. W. B. Dunn. No. 1,381,976; June 21; v. 287; p. 425.
- Brake-band, Hinged. H. W. McCulloch. No. 1,371,916; Mar. 15; v. 284; p. 522.
- Brake-bands, Detachable lining for. J. W. Edell. No. 1,395,670; Nov. 1.
- Brake-bands, Device for lining and relining. M. B. Harrison. No. 1,391,894; Sept. 27; v. 290; p. 698.
- Brake-beam. S. A. Crone. No. 1,387,768; Aug. 16; v. 289; p. 483.
- Brake-beam. C. F. Huntoon. No. 1,390,968; Sept. 13; v. 290; p. 375.
- Brake-beam. E. R. Viberg. No. 1,388,391; Aug. 23; v. 289; p. 663.
- Brake-beam fulcrum. W. E. Fowler, Jr. No. 1,389,041; Aug. 30; v. 289; p. 846.
- Brake-beam fulcrum with third-point support. P. L. Maher, H. Schmidt, and J. H. Kennedy. No. 1,372,319; Mar. 22; v. 284; p. 656.
- Brake-beam-hanger-locking key. E. G. Busse. No. 1,381,275; June 14; v. 287; p. 233.
- Brake-beam release and support. C. H. Williams. No. 1,387,956; Aug. 16; v. 289; p. 519.
- Brake-beam support. T. L. Burton. No. 1,364,073; Jan. 4; v. 282; p. 5.
- Brake-beam support. T. L. Burton. No. 1,364,074; Jan. 4; v. 282; p. 5.
- Brake-beam support. J. J. Tatum. No. 1,385,730; July 26; v. 288; p. 717.
- Brake-beam support. C. H. Williams. No. 1,369,867; Mar. 1; v. 284; p. 22.
- Brake-beam suspension. T. L. Burton. No. 1,364,071; Jan. 4; v. 282; p. 4.
- Brake-beam suspension. T. L. Burton. No. 1,389,121; Aug. 30; v. 289; p. 861.



*Alphabetical list of inventions—Continued.*

- Brake-beams, Adjustable support for. C. H. Williams. No. 1,381,379; June 14; v. 287; p. 253.
- Brake-beams, Adjustable third or fourth point support for. C. H. Williams. No. 1,381,380; June 14; v. 287; p. 253.
- Brake-beams, Safety-guard, release, and support for. A. W. Hawkins. No. 1,397,581; Nov. 22.
- Brake-beams, Third-point support for. A. W. Hawkins. No. 1,397,580; Nov. 22.
- Brake-beams, Third and fourth point support for. C. H. Williams. No. 1,369,866; Mar. 1; v. 284; p. 22.
- Brake-control. E. B. Mead. No. 1,373,195; Mar. 29; v. 284; p. 869.
- Brake-control. E. B. Mead. No. 1,373,196; Mar. 29; v. 284; p. 869.
- Brake control for trains, Automatic. V. S. and S. A. Burton. No. 1,388,141; Aug. 16; v. 289; p. 555.
- Brake-drum pulley. M. Birkigt. No. 1,394,402; Oct. 18.
- Brake equalizer, Four-wheel. A. Lucand. No. 1,379,111; May 24; v. 286; p. 276.
- Brake equalizer, Four-wheel. A. Lucand. No. 1,396,965; Nov. 15.
- Brake for overhead carriers. P. M. Hassler. No. 1,386,496; Aug. 2; v. 289; p. 103.
- Brake-handle. N. Krohn. No. 1,375,709; Apr. 26; v. 285; p. 585.
- Brake-hanger. J. F. Riley and B. S. Fockler. No. 1,400,986; Dec. 20.
- Brake-hanger. F. M. Whyte. No. 1,396,945; Nov. 15.
- Brake-hanger mechanism. E. Posson. No. 1,364,642; Jan. 4; v. 282; p. 114.
- Brake-holding device. R. L. James. No. 1,397,866; Nov. 22.
- Brake-lever. F. Schaefer. No. 1,368,759; Feb. 15; v. 283; p. 472.
- Brake-lever checking device. V. M. Haas. No. 1,368,796; Feb. 15; v. 283; p. 479.
- Brake-levers, Manufacturing. W. A. Kern. No. 1,390,207; Sept. 6; v. 290; p. 130.
- Brake, Mechanical. M. D. Maloney. No. 1,398,875; Nov. 29.
- Brake mechanism. W. S. Adams. No. 1,365,364; Jan. 11; v. 282; p. 298.
- Brake mechanism. T. L. Burton. No. 1,364,072; Jan. 4; v. 282; p. 4.
- Brake mechanism. C. C. Crewson. No. 1,380,048; May 31; v. 286; p. 953.
- Brake mechanism. J. P. Fegely. No. 1,386,559; Aug. 2; v. 289; p. 116.
- Brake mechanism. W. C. Keys. No. 1,380,565; June 7; v. 287; p. 45.
- Brake mechanism. H. Lantz. No. 1,389,952; Sept. 6; v. 290; p. 79.
- Brake mechanism. L. Maschek and J. A. Nible. No. 1,383,325; July 5; v. 288; p. 14.
- Brake mechanism. C. W. Parker. No. 1,393,390; Oct. 11.
- Brake mechanism. J. F. Streib. No. 1,392,368; Oct. 4.
- Brake mechanism, Compound. E. Posson. No. 1,399,078; Dec. 6.
- Brake-operating mechanism. W. O. Bentley. No. 1,368,879; Feb. 15; v. 283; p. 495.
- Brake-operating mechanism. A. P. Lee. No. 1,384,073; July 12; v. 288; p. 218.
- Brake-operating mechanism. E. B. Mead. No. 1,373,194; Mar. 29; v. 284; p. 869.
- Brake-operating mechanism. C. A. Ward. No. 1,395,540; Nov. 1.
- Brake or clutch band lining. W. R. Seigle. No. 1,395,743; Nov. 1.
- Brake, Outside. C. Van Cott. No. 1,380,274; May 31; v. 286; p. 997.
- Brake-pipe cut-out cock. C. C. Farmer. No. 1,378,405; May 17; v. 286; p. 496.
- Brake, Reversibly-operable hand. W. A. Geiger. No. 1,391,052; Sept. 20; v. 290; p. 455.
- Brake-rod jaw. S. H. Campbell. No. 1,375,361; Apr. 19; v. 285; p. 480.
- Brake-rod jaw. S. H. Campbell. No. 1,391,716; Sept. 27; v. 290; p. 663.
- Brake-rods, Safety-hanger for. J. J. Tatum. No. 1,373,575; Apr. 5; v. 285; p. 38.
- Brake-rods, Yielding support for. A. F. Masury and A. H. Leipert. No. 1,385,463; July 26; v. 288; p. 662.
- Brake-shoe. C. R. Powell. No. 1,369,836; Mar. 1; v. 284; p. 16.
- Brake-shoe. T. H. Sanford. No. 1,395,365; Nov. 1.
- Brake-shoe. J. S. Thompson. No. 1,369,497; Feb. 22; v. 283; p. 654.
- Brake-shoe. J. S. Thompson. No. 1,369,498; Feb. 22; v. 283; p. 654.
- Brake-shoe. J. S. Thompson. No. 1,373,538; Apr. 5; v. 285; p. 31.
- Brake-shoe. J. S. Thompson. No. 1,373,539; Apr. 5; v. 285; p. 31.
- Brake-shoe, Adjustable internal. H. W. Muhleisen and C. Lund. No. 1,397,772; Nov. 22.
- Brake shoe and head. C. I. Walker. No. 1,390,846; Sept. 13; v. 290; p. 350.
- Brake-shoe inserts, Molding. H. Jones. No. 1,375,702; Apr. 26; v. 285; p. 584.
- Brake-shoe, Interlocking. R. L. Jordan. No. 1,382,785; June 28; v. 287; p. 633.
- Brake staves and wheels, Attachment-lever for. H. C. Stokes. No. 1,375,238; Apr. 19; v. 285; p. 463.
- Brake-valve, Engineer's. J. W. Bingley. No. 1,370,183; Mar. 1; v. 284; p. 81.
- Braking device. G. W. Kuenneth. No. 1,386,120; Aug. 2; v. 289; p. 31.
- Braking device, Electromagnetic. C. A. M. Weber. No. 1,392,032; Sept. 27; v. 290; p. 727.
- Braking, Regenerative. G. H. Hill. (Reissue.) No. 15,094; Apr. 26; v. 285; p. 715.
- Braking system, Aileron. G. H. Curtiss. No. 1,368,548; Feb. 15; v. 283; p. 431.
- Bran, Treating. T. J. Walterskirchen. No. 1,379,494; May 24; v. 286; p. 276.
- Branding-machine. A. H. Onstad. No. 1,369,934; Mar. 1; v. 284; p. 34.
- Branding machine, Nut. T. S. Sligh. No. 1,370,851; Mar. 8; v. 284; p. 253.
- Brass and packing-guard for car-axle boxes. H. D. Padget. No. 1,368,830; Feb. 15; v. 283; p. 486.
- Brass and similar scrap, Means for melting. W. R. Clark. No. 1,370,090; Mar. 1; v. 284; p. 63.
- Brass-furnace. A. Fisher. No. 1,392,317; Oct. 4.
- Brass scrap, Treating. O. C. Ralston. No. 1,375,930; Apr. 26; v. 285; p. 627.
- Brassière. S. Bosky. No. 1,391,936; Sept. 27; v. 290; p. 707.
- Brassière. M. Dresbach. No. 1,385,672; July 26; v. 288; p. 705.
- Brassière. W. Kops. No. 1,400,295; Dec. 13.
- Brassière. W. Kops. No. 1,400,883; Dec. 20.
- Brassière. W. Kops and L. Goldsmith. No. 1,400,884; Dec. 20.
- Brassière. I. Panes. No. 1,379,416; May 24; v. 286; p. 761.
- Brassière. M. D. Tate-Smith. No. 1,394,235; Oct. 18.
- Brassière and corset combination, Detachable. F. Heindrich. No. 1,378,676; May 17; v. 286; p. 548.
- Brazing, Method of and apparatus for. G. A. Thornton. No. 1,372,634; Mar. 22; v. 284; p. 716.
- Bread and other like foodstuffs, Producing. R. Graham. No. 1,387,387; Aug. 9; v. 289; p. 885.
- Bread-cutter. V. Rullo. No. 1,369,548; Feb. 22; v. 283; p. 664.
- Bread, Increasing the yield of. E. C. Sutherland. No. 1,372,842; Mar. 29; v. 284; p. 798.
- Bread-making. C. J. Patterson. No. 1,385,842; July 26; v. 288; p. 739.
- Bread-making. C. J. Patterson and R. W. Mitchell. No. 1,370,354; Mar. 1; v. 284; p. 114.
- Bread-making machine. R. G. Huidobro. No. 1,380,652; June 7; v. 287; p. 62.
- Bread, Manufacture of. C. E. and R. S. Fox. No. 1,377,825; May 10; v. 286; p. 333.
- Bread-raiser. L. B. Hawkins. No. 1,389,352; Aug. 30; v. 289; p. 908.
- Bread-slicer. A. W. Brown. No. 1,371,849; Mar. 15; v. 284; p. 509.
- Breakwater. J. J. Bagnall. No. 1,385,166; July 19; v. 288; p. 526.
- Breakwater and pier and making same. A. C. Rush. No. 1,375,232; Apr. 19; v. 285; p. 462.
- Breakwater or bulkhead, Portable floating. M. A. White. No. 1,397,025; Nov. 15.
- Breast-drill. G. E. Cassel. No. 1,387,921; Aug. 16; v. 287; p. 513.
- Breech-block mechanism. C. Mirmillo. No. 1,382,796; June 28; v. 287; p. 635.
- Breech-loading guns, Mechanism for non-recoil. B. T. Hamilton. No. 1,397,418; Nov. 15.
- Breeding-crate. J. W. Corington. No. 1,396,256; Nov. 8.
- Breeding-crate. J. C. Schulz. No. 1,389,993; Sept. 6; v. 290; p. 87.
- Breeze-arrester and the like. E. C. Woodin. No. 1,401,224; Dec. 27.
- Brick. J. A. Papot. No. 1,394,759; Oct. 25.
- Brick-anchored bolt. J. K. Green. No. 1,386,402; Aug. 2; v. 289; p. 86.
- Brick and wall construction. S. A. Marsteller. No. 1,395,507; Nov. 1.
- Brick and wall construction, Cored channel. J. P. B. Fiske. No. 1,377,672; May 10; v. 286; p. 284.
- Brick, Apparatus for handling. R. B. Cobb. No. 1,380,776; June 7; v. 287; p. 86.
- Brick, Arch. W. Schuttler. No. 1,372,320; Mar. 22; v. 284; p. 656.
- Brick, Arch. A. H. Willett. No. 1,401,022; Dec. 20.
- Brick, Basic refractory. S. B. Newberry. No. 1,400,087; Dec. 13.
- Brick-burning, Apparatus and method for. H. O. Robinson and C. Steadman. No. 1,367,756; Feb. 8; v. 283; p. 230.
- Brick-carrier. H. E. Fuller. No. 1,385,867; July 26; v. 288; p. 744.
- Brick-carrying frame. W. N. Cary. No. 1,377,667; May 10; v. 286; p. 302.
- Brick, Channel. J. P. B. Fiske. No. 1,400,498; Dec. 13.
- Brick-cleaning machine. E. L. Minor. No. 1,397,227; Nov. 15.
- Brick-drier. C. H. Klein. No. 1,368,940; Feb. 15; v. 283; p. 507.



- Brick, Furnace. C. R. Finch. No. 1,381,625; June 14; v. 287; p. 298.
- Brick-handling, Revolving crane for. G. E. Luce. No. 1,384,768; July 19; v. 288; p. 444.
- Brick-kiln. F. Munhollon. No. 1,375,719; Apr. 26; v. 285; p. 587.
- Brick-kiln construction. J. T. Pokorny. No. 1,386,530; Aug. 2; v. 289; p. 110.
- Brick-kilns, Floor for. H. R. Straight. No. 1,364,155; Jan. 4; v. 282; p. 22.
- Brick-machine. Y. D. Avy. No. 1,394,285; Oct. 18.
- Brick-machine. A. Root. No. 1,377,525; May 10; v. 286; p. 275.
- Brick, Manufacturing and handling. G. E. Luce. No. 1,384,393; July 12; v. 288; p. 285.
- Brick or building-block. J. E. Kiefer. No. 1,382,652; June 28; v. 287; p. 607.
- Brick, Paving. F. B. Dunn. No. 1,397,505; Nov. 22.
- Brick, Refractory. C. W. Berry. No. 1,373,854; Apr. 5; v. 285; p. 92.
- Brick, tile, &c., Material for and forming. L. Jones and C. Westlake, Jr. No. 1,390,038; Sept. 6; v. 290; p. 97.
- Bricks, Handling. J. B. Ladd. No. 1,373,513; Apr. 5; v. 285; p. 27.
- Bricks, Machine for producing hollow. B. O. W. Hesselman and O. G. M. Mattsson. No. 1,386,404; Aug. 2; v. 289; p. 87.
- Bricks, Making dolomite. C. H. Breerwood. No. 1,380,701; June 7; v. 287; p. 71.
- Bricks, Manufacture of. I. Brettschneider. No. 1,395,173; Oct. 25.
- Bricks, Manufacture of. W. W. Crawford. No. 1,395,990; Nov. 1.
- Bricks, Method of and apparatus for making facing. J. H. Mitchell. No. 1,387,861; Aug. 16; v. 289; p. 501.
- Bricks or blocks from natural deposits, Apparatus for cutting. E. B. Starr and H. E. Marsh. No. 1,392,459; Oct. 4.
- Bricks or building-blocks, Apparatus for the manufacture of. E. Lechat. No. 1,383,131; June 28; v. 287; p. 698.
- Brickmaking apparatus. M. P. Andrews. No. 1,374,173; Apr. 12; v. 285; p. 195.
- Bridge. J. M. Swonger. No. 1,401,374; Dec. 27.
- Bridge and culvert form. J. T. Close. No. 1,384,514; July 12; v. 288; p. 309.
- Bridge, Bascule. H. A. F. Abt. No. 1,394,519; Oct. 25.
- Bridge, Bascule. A. H. Scherzer. No. 1,370,999; Mar. 8; v. 284; p. 281.
- Bridge construction. P. A. McKenzie. No. 1,382,106; June 21; v. 287; p. 449.
- Bridge construction, Arch. J. B. Marsh. No. 1,388,584; Aug. 23; v. 289; p. 700.
- Bridge control, Automatic. C. O. Burton. No. 1,383,286; July 5; v. 288; p. 6.
- Bridge, Floating and lifting. A. Blondel. No. 1,367,115; Feb. 1; v. 283; p. 46.
- Bridge-floor, Combined. F. H. Beach. No. 1,385,421; July 26; v. 288; p. 653.
- Bridge, Vehicle. H. H. Howell. No. 1,364,764; Jan. 4; v. 282; p. 138.
- Bridges, Rail-clamp for traveling. L. J. Robb and R. M. Bickley. No. 1,368,841; Feb. 15; v. 283; p. 488.
- Bridges, Safety-gate for. B. Zindel. No. 1,364,421; Jan. 4; v. 282; p. 73.
- Bride-bit. J. G. Wright. No. 1,375,197; Apr. 19; v. 285; p. 455.
- Brief and other carrying case. M. and H. W. Axelman. (Reissue.) No. 15,104; May 17; v. 286; p. 578.
- Brief-case. F. Mashke. No. 1,385,384; July 26; v. 288; p. 646.
- Brine, Treating. H. H. Dow. No. 1,386,244; Aug. 2; v. 289; p. 56.
- Brines, Separating halogen from natural. H. Tobler. No. 1,380,851; June 7; v. 287; p. 101.
- Briquet-machine. S. E. Moren. No. 1,384,206; July 12; v. 288; p. 245.
- Briquet-machines, Chain for. G. Komarek. No. 1,368,942; Feb. 15; v. 283; p. 507.
- Briquet manufacture. J. F. Lovejoy. No. 1,366,091; Jan. 18; v. 282; p. 479.
- Briquets and products thereof, Making. W. P. Taggart. No. 1,396,603; Nov. 8.
- Briquets, Machine for making. C. D. Jenkins. No. 1,376,096; Apr. 26; v. 285; p. 659.
- Briquetting. O. C. Duryea and M. C. White. No. 1,371,671; Mar. 15; v. 284; p. 476.
- Briquetting-press. W. P. Michaelsen. No. 1,372,160; Mar. 22; v. 284; p. 624.
- Broach. J. Oakley. No. 1,366,094; Jan. 18; v. 282; p. 480.
- Broach. J. L. Perkins and F. W. Sickles. No. 1,370,837; Mar. 8; v. 284; p. 251.
- Broach, Spline-finishing. F. J. Lapointe. No. 1,376,709; May 3; v. 286; p. 62.
- Broach-tooth. J. L. Perkins. No. 1,396,523; Nov. 8.
- Broaching, burnishing, &c., Machine for. H. B. Layman. No. 1,369,821; Mar. 1; v. 284; p. 13.
- Broaching-machine. F. J. Lapointe. No. 1,376,708; May 3; v. 286; p. 62.
- Broaching-machine. F. J. Lapointe. No. 1,392,770; Oct. 4.
- Broaching-machine, Rotary. E. G. Simpson. No. 1,376,734; May 3; v. 286; p. 67.
- Bromin and apparatus for use therein, Extracting. H. H. Dow. No. 1,376,610; May 3; v. 286; p. 44.
- Bromin and hydrogen, Process and apparatus for the manufacture of hydrobromic acid from. A. Tschudi. No. 1,380,084; May 31; v. 286; p. 961.
- Bronzing-machine. A. W. Brock. No. 1,377,056; May 3; v. 286; p. 129.
- Brooch. F. H. Horton. No. 1,375,097; Apr. 19; v. 285; p. 436.
- Brooder. M. C. Baron. (Reissue.) No. 15,207; Oct. 18.
- Brooder-canopy, Knockdown. H. M. Sheer. No. 1,392,708; Oct. 4.
- Brooder, Disinfecting. S. Silvers. No. 1,384,866; July 19; v. 288; p. 464.
- Broom. A. Berger. No. 1,375,813; Apr. 26; v. 285; p. 604.
- Broom. S. Bettigole. No. 1,365,652; Jan. 18; v. 282; p. 393.
- Broom. F. P. Blasingame. No. 1,380,521; June 7; v. 287; p. 37.
- Broom. S. Cantor. No. 1,390,882; Sept. 13; v. 290; p. 357.
- Broom. V. E. Clark. No. 1,377,560; May 10; v. 286; p. 281.
- Broom. G. R. Cook. No. 1,372,654; Mar. 22; v. 284; p. 720.
- Broom. W. Gray. No. 1,393,215; Oct. 11.
- Broom. H. O. Hennig. No. 1,395,109; Oct. 25.
- Broom. A. S. Ray. No. 1,377,926; May 10; v. 286; p. 353.
- Broom. D. W. Schenck. No. 1,385,152; July 19; v. 288; p. 524.
- Broom. W. B. Wansor. No. 1,398,052; Nov. 22.
- Broom. S. G. Wilson. No. 1,383,445; July 5; v. 288; p. 39.
- Broom. S. G. Wilson. No. 1,392,384; Oct. 4.
- Broom, Automatic sprinkler. L. King. No. 1,384,722; July 12; v. 288; p. 353.
- Broom-bridle. A. O. Lindstrom. No. 1,400,888; Dec. 20.
- Broom-bridle. G. A. McGarr. No. 1,401,342; Dec. 27.
- Broom-clamp. E. Ward. No. 1,388,224; Aug. 23; v. 289; p. 629.
- Broom-corn stemmer and separator. H. G. Askren. No. 1,377,796; May 10; v. 286; p. 328.
- Broom-corn-tabling machine. T. K. Ladd. No. 1,396,331; Nov. 8.
- Broom-holder. S. Cantor. No. 1,390,881; Sept. 13; v. 290; p. 357.
- Broom-holder. W. H. Collins. No. 1,398,127; Nov. 22.
- Broom-holder. J. G. Lyons. No. 1,370,217; Mar. 1; v. 284; p. 87.
- Broom-holder. H. D. Neff. No. 1,367,753; Feb. 8; v. 283; p. 229.
- Broom or brush. P. Krumscheid. No. 1,378,037; May 17; v. 286; p. 426.
- Brooms or brushes, Bridle for. G. Entwistle. No. 1,372,014; Mar. 22; v. 284; p. 598.
- Broom or mop holder. C. McRae. No. 1,384,619; July 12; v. 288; p. 332.
- Broom-protector. J. Holland and W. G. Welch. No. 1,378,457; May 17; v. 286; p. 505.
- Broom-trimming machine and method. G. W. Manning. No. 1,381,927; June 21; v. 287; p. 416.
- Broom, Whisk. G. K. Van Voast. No. 1,398,210; Nov. 22.
- Brooms and brushes, Bristle for. E. H. W. Von Niessen. No. 1,390,973; Sept. 13; v. 290; p. 376.
- Broomholder. C. K. Huff. No. 1,380,651; June 7; v. 287; p. 62.
- Brush. M. W. Alexander. No. 1,364,971; Jan. 11; v. 282; p. 222.
- Brush. F. Braun. No. 1,371,601; Mar. 15; v. 284; p. 462.
- Brush. C. E. Cazel and J. W. Le Craw. No. 1,374,820; Apr. 12; v. 285; p. 320.
- Brush. E. A. Dennin. No. 1,375,681; Apr. 26; v. 285; p. 580.
- Brush. J. Dworniczak. No. 1,391,882; Sept. 27; v. 290; p. 696.
- Brush. W. Feder. No. 1,385,532; July 26; v. 288; p. 676.
- Brush. C. E. Frost. No. 1,372,680; Mar. 29; v. 284; p. 766.
- Brush. M. Gutmann. No. 1,379,976; May 31; v. 286; p. 941.
- Brush. C. E. Jewett and F. Fitzgerald. No. 1,397,586; Nov. 22.
- Brush. H. Jordan. No. 1,364,996; Jan. 11; v. 282; p. 228.
- Brush. O. L. Lance. No. 1,373,192; Mar. 29; v. 284; p. 869.
- Brush. J. K. MacRae. No. 1,372,308; Mar. 22; v. 284; p. 654.
- Brush. S. Matsugaki. No. 1,387,063; Aug. 9; v. 289; p. 291.
- Brush. H. A. Poppenhusen and R. T. R. Hastings. No. 1,396,973; Nov. 15.
- Brush. S. D. Purdy. No. 1,385,272; July 19; v. 288; p. 547.
- Brush. C. Schatte. No. 1,388,127; Aug. 16; v. 289; p. 552.
- Brush. F. A. Shelton. No. 1,399,368; Dec. 6.



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- Brush, J. A. Skoglund. No. 1,373,455; Apr. 5; v. 285; p. 15.
- Brush, A. C. Stevenson. No. 1,374,330; Apr. 12; v. 285; p. 225.
- Brush, A. R. Wiens. No. 1,388,680; Aug. 23; v. 289; p. 719.
- Brush, Adjustable wire. A. Wright. No. 1,382,042; June 21; v. 287; p. 438.
- Brush, Air-. A. Shelburne. No. 1,398,920; Nov. 29.
- Brush and comb, Combined. W. J. Hope. No. 1,370,649; Mar. 8; v. 284; p. 215.
- Brush and comb, Combined. T. Kozlowsky and W. Rogosky. No. 1,388,955; Aug. 30; v. 289; p. 828.
- Brush and holder, Combined. K. A. George. No. 1,379,768; May 31; v. 286; p. 899.
- Brush and making same. R. T. R. Hastings. No. 1,375,755; Apr. 26; v. 285; p. 593.
- Brush and making same. R. J. Montgomery. No. 1,370,343; Mar. 1; v. 284; p. 111.
- Brush and manufacturing the same. H. H. Wikle. No. 1,375,879; Apr. 26; v. 285; p. 617.
- Brush and means for attaching same to hose or handles. E. S. Calkins. No. 1,383,387; July 5; v. 288; p. 27.
- Brush and mop holder. F. F. Hill. No. 1,391,111; Sept. 20; v. 290; p. 466.
- Brush and polishing-pad, Combined. W. L. Denton. No. 1,369,404; Feb. 22; v. 283; p. 636.
- Brush and sprayer, Bath. J. H. Mulherin. No. 1,395,763; Nov. 1.
- Brush and supply-holder, Combined. J. E. Holloway and H. E. Burwell. No. 1,400,954; Dec. 20.
- Brush, Automobile-. R. L. Cheatham. No. 1,392,623; Oct. 4.
- Brush-back. W. Morrison. No. 1,398,035; Nov. 22.
- Brush, Bath-. H. E. Bailey. No. 1,397,611; Nov. 22.
- Brush, Bath-. G. B. Keplinger. No. 1,367,747; Feb. 8; v. 283; p. 228.
- Brush, Bath-. J. C. Smith. No. 1,372,783; Mar. 29; v. 284; p. 786.
- Brush, Boiler-tube. J. Bergesen, Sr. No. 1,392,105; Sept. 27; v. 290; p. 741.
- Brush, Carpet-sweeper. J. P. N. Adams. No. 1,370,256; Mar. 1; v. 284; p. 96.
- Brush, Collapsible tooth-. C. W. Lloyd. No. 1,378,044; May 17; v. 286; p. 427.
- Brush, Commutator. F. L. Cooley. No. 1,396,948; Nov. 15.
- Brush connection. H. B. Eynon. No. 1,392,563; Oct. 4.
- Brush connection. P. P. Nungesser. No. 1,372,366; Mar. 22; v. 284; p. 665.
- Brush, Electric. W. E. Schwarzmann. No. 1,393,704; Oct. 11.
- Brush, Electrical. H. R. Mondy. No. 1,393,635; Oct. 11.
- Brush, Electromedical. H. Weiss. No. 1,374,414; Apr. 12; v. 285; p. 241.
- Brush, Folding. W. R. McDermott and C. E. Showalter. No. 1,391,783; Sept. 27; v. 290; p. 675.
- Brush for mucilage and paste bottles. S. Vos. No. 1,378,636; May 17; v. 286; p. 540.
- Brush, Fountain-. W. P. Bates. No. 1,387,754; Aug. 16; v. 289; p. 480.
- Brush, Fountain-. I. Bojko. No. 1,382,055; June 21; v. 287; p. 440.
- Brush, Fountain-. R. J. D. Fisher and I. de A. Holt. No. 1,374,294; Apr. 12; v. 285; p. 218.
- Brush, Fountain-. O. James. No. 1,389,665; Sept. 6; v. 290; p. 21.
- Brush, Fountain-. P. A. Stephens. No. 1,391,282; Sept. 20; v. 290; p. 501.
- Brush, Fountain-feed rotary. W. A. Carver. No. 1,393,663; Oct. 11.
- Brush, Fountain lather-. F. McLaughlin. No. 1,375,404; Apr. 19; v. 285; p. 494.
- Brush, Fountain marking-. M. M. Shackitt. No. 1,367,433; Feb. 1; v. 283; p. 109.
- Brush, Fountain marking-. L. W. Simmons. No. 1,393,841; Oct. 18.
- Brush, Fountain paint-. M. M. Kellogg. No. 1,376,702; May 3; v. 286; p. 60.
- Brush, Fountain paint-. F. J. and A. H. Miller. No. 1,389,772; Sept. 6; v. 290; p. 42.
- Brush, Fountain shaving-. J. S. Eddy. No. 1,374,724; Apr. 12; v. 285; p. 301.
- Brush, Germicide-. D. N. E. Campbell. No. 1,375,560; Apr. 19; v. 285; p. 524.
- Brush, Hair-. K. T. Baral. No. 1,383,511; July 5; v. 288; p. 52.
- Brush, Hair-. G. Ohanian. No. 1,391,207; Sept. 20; v. 290; p. 486.
- Brush, Hair-. E. Wellington. No. 1,381,147; June 14; v. 287; p. 210.
- Brush-handle connection. J. F. Palmer. No. 1,397,899; Nov. 22.
- Brush-hanger. C. E. Hecht. No. 1,397,807; Nov. 22.
- Brush, Head-. J. H. Bates. No. 1,382,161; June 21; v. 287; p. 459.
- Brush-holder. D. F. Dillin. No. 1,401,679; Dec. 27.
- Brush-holder. A. T. Lochner. No. 1,395,440; Nov. 1.
- Brush-holder. O. C. Malcolm. No. 1,394,205; Oct. 18.
- Brush-holder. L. A. Merk. No. 1,396,451; Nov. 8.
- Brush-holder. H. K. Sandell. No. 1,376,041; Apr. 26; v. 285; p. 648.
- Brush-holder. T. Schou. No. 1,378,565; May 17; v. 286; p. 526.
- Brush-holder. F. Sohnle. No. 1,391,017; Sept. 20; v. 290; p. 447.
- Brush-holder. F. Sohnle. No. 1,391,018; Sept. 20; v. 290; p. 448.
- Brush-holder. W. J. Warder, Jr. No. 1,375,124; Apr. 19; v. 285; p. 441.
- Brush-holder, Adjustable. V. H. Miller. No. 1,377,215; May 10; v. 286; p. 215.
- Brush holder, Electric-. E. Buerosse. No. 1,370,277; Mar. 1; v. 284; p. 99.
- Brush-holder, Electric-generator. C. E. Willey. No. 1,392,996; Oct. 11.
- Brush-holder mechanisms, Controlling device for. M. E. Gysel. No. 1,389,137; Aug. 30; v. 289; p. 864.
- Brush holder, Scrubbing-. T. O. Bussler. No. 1,385,902; July 26; v. 288; p. 751.
- Brush-holders, Spring-tension means for. J. S. Dean. No. 1,381,289; June 14; v. 287; p. 236.
- Brush-holders, Support for. W. J. Warder, Jr. No. 1,378,923; May 24; v. 286; p. 668.
- Brush, Massage-. F. L. Mathieu. No. 1,394,206; Oct. 18.
- Brush moistener, Photographic-spotting-. H. T. A. Dickopf. No. 1,372,341; Mar. 22; v. 284; p. 660.
- Brush, Nail-. C. A. Hirth. No. 1,374,851; Apr. 12; v. 285; p. 326.
- Brush, Paint and other. A. H. Timmis. No. 1,372,108; Mar. 22; v. 284; p. 615.
- Brush, Polishing-. C. H. Anderson. No. 1,398,772; Nov. 29.
- Brush, Polishing-. H. Smith. No. 1,374,772; Apr. 12; v. 285; p. 310.
- Brush, Powder-distributing. P. D'Alessandro. No. 1,401,508; Dec. 27.
- Brush, Power-driven shoe-shine. H. A. Bohlman. No. 1,374,181; Apr. 12; v. 285; p. 197.
- Brush, Radiator-. E. M. Martin. No. 1,389,957; Sept. 6; v. 290; p. 80.
- Brush, Rotary. C. E. Frost. No. 1,391,051; Sept. 20; v. 290; p. 454.
- Brush, Rotary. C. E. Frost. No. 1,394,993; Oct. 25.
- Brush, Rotary. R. C. Herold. No. 1,380,381; June 7; v. 287; p. 11.
- Brush, Rotary. M. L. Smith. No. 1,369,567; Feb. 22; v. 283; p. 668.
- Brush, Rotary. H. Wimmer. No. 1,393,332; Oct. 11.
- Brush, Rotary fountain-. L. H. Hargis. No. 1,386,568; Aug. 2; v. 289; p. 118.
- Brush, Rotary surface-. M. C. Shinn. No. 1,374,476; Apr. 12; v. 285; p. 254.
- Brush, Scrub-. M. E. Kelly. No. 1,393,864; Nov. 29.
- Brush, Scrubbing-. J. F. Holland. No. 1,395,495; Nov. 1.
- Brush, Scrubbing-. C. F. Olivier. No. 1,385,264; July 19; v. 288; p. 545.
- Brush, Shaving-. B. H. De Haven. No. 1,382,347; June 21; v. 287; p. 494.
- Brush, Shaving-. P. P. Pupilla. No. 1,388,001; Aug. 16; v. 289; p. 528.
- Brush, Shaving-. C. F. Stoewsand. No. 1,392,369; Oct. 4.
- Brush, Shaving-. R. F. Tibbetts. No. 1,396,474; Nov. 8.
- Brush, Shower-bath. L. A. Trial. No. 1,373,369; Mar. 29; v. 284; p. 903.
- Brush, Street-sweeping. C. W. Lund. No. 1,399,634; Dec. 6.
- Brush, Timer-. C. E. Gibbs. No. 1,374,072; Apr. 5; v. 285; p. 135.
- Brush, Timer-. E. L. Miller. No. 1,377,361; May 10; v. 286; p. 245.
- Brush, Vacuum-cleaner. G. R. Paulus. No. 1,393,695; Oct. 11.
- Brush, Washing and scrubbing. J. R. Masser. No. 1,375,102; Apr. 19; v. 285; p. 437.
- Brushes, Drip-cup attachment for. C. L. McDaniel. No. 1,396,967; Nov. 15.
- Brushes, Drip-guard for. F. Gaede. No. 1,398,894; Nov. 29.
- Brushes, Strap attachment for. M. P. Benson and M. M. Wiener. No. 1,386,756; Aug. 9; v. 289; p. 229.
- Brushing and scrubbing machine. K. S. Dubicki and P. J. Miller. No. 1,379,806; May 31; v. 286; p. 908.
- Brushing or polishing apparatus. F. P. Tuttle. No. 1,391,221; Sept. 20; v. 290; p. 489.
- Bubble-pipe. J. E. Dorris. No. 1,381,458; June 14; v. 287; p. 267.
- Buck, Double-decking. E. S. Evans. No. 1,388,247; Aug. 23; v. 289; p. 633.
- Buck-rake, Motor driven. E. W. Reed. No. 1,384,919; July 19; v. 288; p. 474.
- Bucket. H. S. Atkinson. No. 1,371,291; Mar. 15; v. 284; p. 400.
- Bucket apparatus, Drag-line-. W. L. Thompson. No. 1,370,566; Mar. 8; v. 284; p. 199.
- Bucket, Automatic excavating-. J. Corneloup. No. 1,385,520; July 26; v. 288; p. 674.
- Bucket, Cableway excavating-. E. H. Fallenstein. No. 1,398,425; Nov. 29.
- Bucket-carrying apparatus. C. C. Post. No. 1,368,289; Feb. 15; v. 283; p. 380.
- Bucket, Collapsible. R. D. Viner. No. 1,385,934; July 26; v. 288; p. 757.



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- Bucket, Combination fish and bait. H. H. Petty. No. 1,373,830; Apr. 5; v. 285; p. 88.
- Bucket, Combination fish and bait. H. H. Petty. No. 1,385,792; July 26; v. 288; p. 729.
- Bucket, Crane-hook grab-. F. H. Williams. No. 1,400,922; Dec. 20.
- Bucket elevator. C. L. Wilsen. No. 1,375,881; Apr. 26; v. 285; p. 617.
- Bucket elevator. J. W. Woods. No. 1,376,989; May 3; v. 286; p. 116.
- Bucket, Excavating-. V. H. Jackson. No. 1,401,782; Dec. 27.
- Bucket, Excavating-. W. M. Venable. No. 1,380,144; June 7; v. 287; p. 23.
- Bucket, Excavating-. W. M. Venable. No. 1,398,479; Nov. 29.
- Bucket, Mop-. A. A. Cunningham. No. 1,392,483; Oct. 4.
- Bucket, Reclaiming and conveying. J. F. Godfrey. No. 1,397,509; Nov. 22.
- Bucket, Self-opening. C. Nolan. Nos. 1,400,902-3; Dec. 20.
- Bucket sinker, Well-. H. F. Davis. No. 1,366,524; Jan. 25; v. 282; p. 608.
- Bucket, Well-. T. Harper. No. 1,378,450; May 17; v. 286; p. 504.
- Bucket, Well-. G. W. Miller. No. 1,370,340; Mar. 1; v. 284; p. 111.
- Bucket, Wide-opening clam-shell. C. Stenbol. No. 1,382,327; June 21; v. 287; p. 490.
- Buckets, Attaching lips to dredge. J. J. Rattigan. No. 1,377,925; May 10; v. 286; p. 353.
- Buckets, Scraper attachment for unloader-. C. E. Van Syckle. No. 1,394,699; Oct. 25.
- Buckle. L. E. Baer. No. 1,381,690; June 14; v. 287; p. 311.
- Buckle. B. R. Burg. No. 1,393,881; Oct. 18.
- Buckle. J. F. Carpmill. No. 1,376,919; May 3; v. 286; p. 103.
- Buckle. R. B. Claggett. No. 1,364,544; Jan. 4; v. 282; p. 96.
- Buckle. R. I. Douglas. No. 1,400,666; Dec. 20.
- Buckle. T. Garceau. No. 1,394,195; Oct. 18.
- Buckle. W. E. Guyot. (Reissue.) No. 15,138; July 5; v. 288; p. 161.
- Buckle. W. E. Guyot. No. 1,399,343; Dec. 6.
- Buckle. H. G. Hancock. No. 1,376,763; May 3; v. 286; p. 72.
- Buckle. H. Hoeschen. No. 1,394,552; Oct. 25.
- Buckle. W. Horn. No. 1,385,323; July 19; v. 288; p. 557.
- Buckle. E. H. Humphrey and O. E. Wardner. No. 1,384,066; July 12; v. 288; p. 216.
- Buckle. J. H. and F. P. Kintzele. No. 1,392,064; Sept. 27; v. 290; p. 733.
- Buckle. C. P. Kuehn. No. 1,393,143; Oct. 11.
- Buckle. T. La Maida. No. 1,368,037; Feb. 8; v. 283; p. 283.
- Buckle. G. Larson. No. 1,372,745; Apr. 5; v. 285; p. 70.
- Buckle. B. F. Orewiler. No. 1,365,721; Jan. 18; v. 282; p. 406.
- Buckle. A. J. Therreault. No. 1,367,215; Feb. 1; v. 283; p. 66.
- Buckle. G. R. Thurman. No. 1,377,233; May 10; v. 286; p. 219.
- Buckle. G. Rottman. No. 1,394,644; Oct. 25.
- Buckle. J. C. Torrey. No. 1,366,104; Jan. 18; v. 282; p. 482.
- Buckle. G. W. Troop. No. 1,374,691; Apr. 12; v. 285; p. 295.
- Buckle. O. E. Wardner. No. 1,394,380; Oct. 18.
- Buckle. W. E. Willis. No. 1,375,880; Apr. 26; v. 285; p. 617.
- Buckle and wrist-strap. G. Christiansen. No. 1,390,761; Sept. 13; v. 290; p. 333.
- Buckle, Apparel-. A. H. Kerngood. No. 1,389,948; Sept. 6; v. 290; p. 79.
- Buckle, Apparel-belt. K. Dougan. Nos. 1,398,632-3; Nov. 29.
- Buckle, Apparel-belt. S. Shufeldt. No. 1,368,848; Feb. 15; v. 283; p. 489.
- Buckle attachment, Belt-. B. Slote. No. 1,382,130; June 21; v. 287; p. 453.
- Buckle, Bale-. H. P. Childress. No. 1,366,357; Jan. 25; v. 282; p. 574.
- Buckle, Bale-tie. R. C. Banks. No. 1,368,381; Feb. 15; v. 283; p. 398.
- Buckle, Bale-tie. F. H. McFarland. No. 1,372,077; Mar. 22; v. 284; p. 609.
- Buckle, Belt-. L. E. Baer. No. 1,381,691; June 14; v. 287; p. 312.
- Buckle, Belt-. R. L. Boyer. No. 1,375,894; Apr. 26; v. 285; p. 620.
- Buckle, Belt-. H. J. Buchsbaum. No. 1,375,774; Apr. 26; v. 285; p. 596.
- Buckle, Belt-. S. Buchsbaum. No. 1,387,919; Aug. 16; v. 289; p. 512.
- Buckle, Belt-. S. Buchsbaum. No. 1,393,425; Oct. 11.
- Buckle, Belt-. S. Buchsbaum. No. 1,396,020; Nov. 8.
- Buckle, Belt-. S. Buchsbaum. No. 1,397,673; Nov. 22.
- Buckle, Belt-. S. Buchsbaum. No. 1,399,745; Dec. 13.
- Buckle, Belt-. J. Czerwinski. No. 1,385,865; July 26; v. 288; p. 744.
- Buckle, Belt-. H. Grossman. No. 1,384,061; July 12; v. 288; p. 215.
- Buckle, Belt-. J. Heberling. No. 1,385,945; July 26; v. 288; p. 759.
- Buckle, Belt-. E. N. Humphrey. No. 1,381,121; June 14; v. 287; p. 206.
- Buckle, Belt-. E. N. Humphrey. No. 1,381,122; June 14; v. 287; p. 206.
- Buckle, Belt-. E. H. Humphrey. No. 1,388,646; Aug. 23; v. 289; p. 712.
- Buckle, Belt-. E. N. Humphrey. No. 1,395,713; Nov. 1.
- Buckle, Belt-. L. Jaroll. No. 1,393,222; Oct. 11.
- Buckle, Belt-. L. F. Otten. No. 1,393,721; Oct. 11.
- Buckle, Belt-. S. M. Riker. No. 1,380,416; June 7; v. 287; p. 17.
- Buckle, Belt-. S. Rosenthal and S. D. Brightman. No. 1,389,459; Aug. 30; v. 289; p. 929.
- Buckle, Belt-. G. F. Scheer. No. 1,386,805; Aug. 9; v. 289; p. 239.
- Buckle, Belt-. L. W. Shields. No. 1,374,611; Apr. 12; v. 285; p. 280.
- Buckle, Belt-. L. W. Shields. No. 1,381,353; June 14; v. 287; p. 248.
- Buckle, Belt-. T. D. Walker. No. 1,388,623; Aug. 23; v. 289; p. 708.
- Buckle, Belt-. O. E. Wardner. No. 1,381,146; June 14; v. 287; p. 210.
- Buckle-body, Forming a. F. W. Lewis. No. 1,395,124; Oct. 25.
- Buckle, Clamp-. J. Posternock. No. 1,384,776; July 19; v. 288; p. 445.
- Buckle for personal wear. L. F. Otten. No. 1,382,937; June 28; v. 287; p. 623.
- Buckle for straps, belts, &c. G. A. V. Soulacroix. No. 1,380,261; May 31; v. 286; p. 994.
- Buckle, Hair-. K. Liebenow. No. 1,373,088; Mar. 29; v. 284; p. 847.
- Buckle, Harness-. G. V. Burris. No. 1,382,469; June 21; v. 287; p. 518.
- Buckle-holder. M. J. Keevers. No. 1,377,254; May 10; v. 286; p. 223.
- Buckle, Line-. T. F. Bolig. No. 1,388,401; Aug. 23; v. 289; p. 665.
- Buckle, Live. G. Abraham. No. 1,368,009; Feb. 8; v. 283; p. 278.
- Buckle or clamp. B. H. White. No. 1,378,391; May 17; v. 286; p. 493.
- Buckle, Rope-. F. E. Sillick. No. 1,368,766; Feb. 15; v. 283; p. 473.
- Buckle, Slide-. G. H. Perrine. No. 1,400,178; Dec. 13.
- Buckle, Tie-. W. M. Wallace. No. 1,365,137; Jan. 11; v. 282; p. 254.
- Buckle, Turn-. D. Hoyt. No. 1,366,732; Jan. 25; v. 282; p. 650.
- Buckle, Watch belt-. C. Perry, Jr., and N. Currie. No. 1,383,968; July 5; v. 288; p. 147.
- Buffer, Door-. O. A. Lawrence. No. 1,394,420; Oct. 18.
- Buffer, draw, and other spring. A. G. and F. Spencer and C. W. Hine. No. 1,366,507; Jan. 25; v. 282; p. 605.
- Buffer, Nail-. H. V. A. Loring. No. 1,370,753; Mar. 8; v. 284; p. 235.
- Buffers to vehicles, Clamp for attaching. T. A. Hoover. No. 1,397,213; Nov. 15.
- Buffing device for the inner face of rings, Manually-operated. M. Jelalian. No. 1,387,778; Aug. 16; v. 289; p. 485.
- Buffing-machine. J. Keller. No. 1,392,172; Sept. 27; v. 290; p. 754.
- Buffing or polishing wheel. A. Levett. No. 1,374,018; Apr. 5; v. 285; p. 124.
- Buffing or polishing wheel. A. Levett. (Reissue.) No. 15,226; Nov. 15.
- Buggy and cradle, Combination baby-. H. M. Freeland. No. 1,370,958; Mar. 8; v. 284; p. 274.
- Builder-motion. J. Jeffers. No. 1,373,508; Apr. 5; v. 285; p. 25.
- Builders' planks from cement, Machine for cleaning. P. Sauset. No. 1,390,218; Sept. 6; v. 290; p. 132.
- Builder's tool. P. O. Nelson. No. 1,380,407; June 7; v. 287; p. 15.
- Building and hoist, Storage-. E. W. Burgess. No. 1,369,393; Feb. 22; v. 283; p. 634.
- Building-block. A. H. Carrier. No. 1,386,314; Aug. 2; v. 289; p. 70.
- Building-block. T. Colosimo. No. 1,397,035; Nov. 15.
- Building-block. V. E. Easterday. No. 1,395,632; Nov. 1.
- Building-block. J. A. Ferguson. No. 1,365,162; Jan. 11; v. 282; p. 259.
- Building-block. C. A. Hadland. No. 1,377,149; May 3; v. 286; p. 146.
- Building-block. K. E. W. Jagdmann. (Reissue.) No. 15,237; Nov. 29.
- Building-block. L. F. Kline. No. 1,369,115; Feb. 22; v. 283; p. 580.
- Building-block. V. L. Pace. No. 1,367,497; Feb. 1; v. 283; p. 123.
- Building-block. G. H. Talbot. No. 1,378,735; May 17; v. 286; p. 560.
- Building-block. C. C. Worthington. No. 1,400,709; Dec. 20.
- Building block and wall. E. Calvert. No. 1,394,406; Oct. 18.
- Building block or slab. R. Murray. No. 1,399,023; Dec. 6.



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- Building block or tile. J. A. Lannert. No. 1,365,705; Jan. 18; v. 282; p. 404.
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- Building-blocks, Apparatus for making. J. A. Muth. No. 1,385,186; July 19; v. 288; p. 530.
- Building-blocks, Machine for making. F. J. Straub. No. 1,399,325; Dec. 6.
- Building-blocks, Method of and apparatus for making. A. M. Zottoli. No. 1,374,270; Apr. 12; v. 285; p. 213.
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- Building brick and wall construction. G. A. Bilque. No. 1,385,299; July 19; v. 288; p. 552.
- Building component. W. B. Griffin. No. 1,381,823; June 14; v. 287; p. 336.
- Building construction. D. Baughman. No. 1,390,951; Sept. 13; v. 290; p. 372.
- Building construction. H. R. Bickle. No. 1,371,727; Mar. 15; v. 285; p. 486.
- Building construction. O. A. Deichmann. No. 1,400,144; Dec. 13.
- Building construction. L. L. Eldridge. No. 1,375,955; Apr. 26; v. 285; p. 632.
- Building construction. J. N. Hake. No. 1,400,284; Dec. 13.
- Building, &c., Protractor for laying off lines, angles, and elevations in. A. R. Smith. No. 1,401,200; Dec. 27.
- Building construction. J. Hundley. No. 1,391,897; Sept. 27; v. 290; p. 699.
- Building construction. H. E. Marks and W. R. Frazier. No. 1,386,130; Aug. 2; v. 289; p. 34.
- Building construction. W. J. Pedersen. No. 1,397,650; Nov. 22.
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- Building, Sectional. C. G. Brigham and W. M. Hamilton. No. 1,366,888; Jan. 25; v. 282; p. 681.
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- Building-wall. L. H. Guimonneau. No. 1,388,181; Aug. 23; v. 289; p. 620.
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- Buildings, Ceiling construction for reinforced-concrete. W. J. Matthews. No. 1,365,054; Jan. 11; v. 282; p. 238.
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- Bumper-attaching fitting. A. L. McGregor. No. 1,372,158; Mar. 22; v. 284; p. 624.
- Bumper-attaching fitting. A. L. McGregor. No. 1,372,159; Mar. 22; v. 284; p. 624.
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- Bumper-bar. E. W. Weaver. No. 1,380,616; June 7; v. 287; p. 55.
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- Bumper-bar, Resilient. E. W. Weaver. No. 1,380,615; June 7; v. 287; p. 55.
- Bumper-bracket. L. P. Halladay. No. 1,385,679; July 26; v. 288; p. 707.
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- Bumper, Pneumatic. J. K. Whitaker, jr. No. 1,380,759; June 7; v. 287; p. 83.
- Bumping-post. A. Robertson. No. 1,383,858; July 5; v. 288; p. 125.
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- Bumper, Train. H. Varder. No. 1,368,002; Feb. 8; v. 283; p. 276.
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- Bumpers, Automatic fuel-supply-regulating means for hydrocarbon. J. H. Holland. No. 1,391,956; Sept. 27; v. 290; p. 711.
- Bumpers, Bracket for spring-bar. W. G. Cox. No. 1,391,373; Sept. 20; v. 290; p. 520.
- Bumpers, Reinforcing-plate for automobile. H. Bernstein. No. 1,397,354; Nov. 15.
- Bumping-post. J. M. Scott. No. 1,387,561; Aug. 16; v. 289; p. 441.
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- Bundle-tape-applying device. T. M. Harrigan. No. 1,396,422; Nov. 8.
- Bundling and tying machine, Automatic. J. M. Leaver, Jr. (Reissue). No. 15,111; May 24; v. 286; p. 797.
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- Bundling-machine. B. R. Williamson. No. 1,401,298; Dec. 27.
- Bundling machine, Box-shook. S. J. Johnson and G. Wood. No. 1,370,969; Mar. 8; v. 284; p. 276.
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- Buoy. O. T. Melvin. No. 1,374,943; Apr. 19; v. 285; p. 405.
- Buoy, Fishing-net. O. T. Melvin. No. 1,374,942; Apr. 19; v. 285; p. 405.
- Buoy for scaways, Mark-. M. Vitrac. No. 1,376,055; Apr. 26; v. 285; p. 651.
- Buoy, Life-saving. C. G. Johnson. No. 1,377,486; May 10; v. 286; p. 269.
- Buoy, Wreck-indicating. P. Bichek. No. 1,372,591; Mar. 22; v. 284; p. 708.
- Buoy, Wreck-indicating. M. S. Zappey. No. 1,377,046; May 3; v. 286; p. 127.
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- Burglar-alarm. K. Fujita. No. 1,368,791; Feb. 15; v. 283; p. 478.
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- Burglar-alarm. W. W. Gerrie and J. B. Dawson. No. 1,367,959; Feb. 8; v. 283; p. 268.
- Burglar-alarm. M. Goldstone. No. 1,377,198; May 10; v. 286; p. 212.
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- Burglar-alarm. B. A. Kovacic. No. 1,380,808; June 7; v. 287; p. 93.
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- Burglar-alarm. J. C. Rieck. No. 1,374,684; Apr. 12; v. 285; p. 294.
- Burglar-alarm. F. Sefcik. No. 1,371,120; Mar. 8; v. 284; p. 304.
- Burglar-alarm. F. E. Sparks. No. 1,398,160; Nov. 22.
- Burglar-alarm. J. S. Spirewka, Jr. No. 1,379,058; May 24; v. 286; p. 693.
- Burglar-alarm. W. B. Stephens. No. 1,398,924; Nov. 29.
- Burglar-alarm. P. V. Vandevelde. No. 1,399,170; Dec. 6.
- Burglar-alarm, Portable. F. Bacon. No. 1,389,178; Aug. 30; v. 289; p. 873.
- Burglar-alarm, Portable. S. Sundel. No. 1,377,939; May 10; v. 286; p. 356.
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- Burglar-alarm, Thermostatic. S. B. Hess. No. 1,365,693; Jan. 18; v. 282; p. 401.
- Burglar-alarm, Mounting for. J. M. Butcher. No. 1,387,966; Aug. 16; v. 289; p. 521.
- Burglar and fire alarm. W. J. Driver. No. 1,377,324; May 10; v. 286; p. 237.
- Burglar and fire alarm. Le R. S. Foltz. No. 1,373,495; Apr. 5; v. 285; p. 23.
- Burglar lock and alarm, Combined. A. S. Cummings. No. 1,387,594; Aug. 16; v. 289; p. 448.
- Burglar or thief alarm. F. Cressall. No. 1,372,671; Mar. 29; v. 284; p. 764.
- Burglar protective device. Bank-. C. A. Guhr. No. 1,384,613; July 12; v. 288; p. 331.
- Burglar-trap. J. A. Tate. No. 1,393,183; Oct. 11.
- Burial-case. T. Best. No. 1,377,656; May 10; v. 286; p. 300.
- Burial-case. T. Bradley. No. 1,401,037; Dec. 20.
- Burial-case. V. Breuer. No. 1,366,869; Jan. 25; v. 282; p. 677.
- Burial-case. H. Tyree. No. 1,365,634; Jan. 11; v. 282; p. 350.
- Burial-casket, Knockdown. F. E. Hollins. No. 1,373,730; Apr. 5; v. 285; p. 67.
- Burial-caskets, Sealing means for. B. A. Baer. No. 1,371,720; Mar. 15; v. 284; p. 485.
- Burial-receptacle. L. Schafer. No. 1,373,915; Apr. 5; v. 285; p. 105.
- Burner: See—
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| Bunsen burner.        | Muffler-burner.               |
| Coal-oil burner.      | Oil-burner.                   |
| Combination-burner.   | Oil-fuel burner.              |
| Crude-oil burner.     | Oil-gas burner.               |
| Electric burner.      | Oil or vapor burner.          |
| Fuel-burner.          | Oven-burner.                  |
| Fuel-oil burner.      | Pilot-burner.                 |
| Gas-burner.           | Suction-burner.               |
| Gaseous-fuel burner.  | Tar-burner.                   |
| Hydrocarbon-burner.   | Vapor-burner.                 |
| Kerosene-burner.      | Vaporizer hydrocarbon-burner. |
| Kindling-burner.      | Vulcanizing-burner.           |
| Lamp-burner.          |                               |
- Burner. L. C. Benner. No. 1,372,265; Mar. 22; v. 284; p. 646.
- Burner. O. F. Carlson. No. 1,392,909; Oct. 11.
- Burner. J. Clary. No. 1,398,839; Nov. 29.
- Burner. L. P. Coulter. No. 1,385,905; July 26; v. 288; p. 752.
- Burner. J. W. Ferree. No. 1,369,230; Feb. 22; v. 283; p. 602.
- Burner. M. A. Fesler. No. 1,365,163; Jan. 11; v. 282; p. 259.
- Burner. J. E. González. No. 1,373,610; Apr. 5; v. 285; p. 45.
- Burner. O. G. Halvorsen, F. S. Hudson, and E. G. Rhoads. No. 1,383,719; July 5; v. 288; p. 96.
- Burner. P. H. Hamilton. No. 1,379,301; May 24; v. 286; p. 739.
- Burner. H. A. Kunitz. No. 1,374,153; Apr. 5; v. 285; p. 150.
- Burner. A. R. Kunkel. No. 1,385,875; July 26; v. 288; p. 746.
- Burner. A. P. Link. No. 1,365,255; Jan. 11; v. 282; p. 277.
- Burner. H. A. Paquette. No. 1,391,494; Sept. 20; v. 290; p. 544.
- Burner. E. Pemberton. No. 1,396,381; Nov. 8.
- Burner. E. H. Schwartz. No. 1,391,416; Sept. 20; v. 290; p. 529.
- Burner. J. B. Sheridan. No. 1,394,228; Oct. 18.
- Burner. M. E. Vezie. No. 1,374,045; Apr. 5; v. 285; p. 120.
- Burner and gas-generator, Combined. A. E. Grant. No. 1,393,358; Oct. 11.
- Burner attachment. G. N. Blanchard. No. 1,381,273; June 14; v. 287; p. 233.
- Burner-cleaner. E. Rector. No. 1,399,655; Dec. 6.
- Burner for burning oil and other liquid fuel. E. Cleary. No. 1,381,080; June 7; v. 287; p. 145.
- Burner for gas and oil. C. F. Valley. No. 1,381,144; June 14; v. 287; p. 210.
- Burner for heating stoves. O. J. Rossetot. No. 1,389,990; Sept. 6; v. 290; p. 86.
- Burner for liquid fuel. P. Lucas. No. 1,386,267; Aug. 2; v. 289; p. 61.
- Burner for petrol air-gas. G. H. Nelson and H. E. Smith. No. 1,385,263; July 19; v. 288; p. 545.
- Burner for petroleum or similar fuels. J. Velasquez. No. 1,381,370; June 14; v. 287; p. 251.
- Burner, Gas-. I. M. Justice. No. 1,364,281; Jan. 4; v. 282; p. 46.
- Burner-head. C. L. Torrey. No. 1,389,107; Aug. 30; v. 289; p. 858.
- Burner, Oil-. O. J. Groehn. No. 1,364,193; Jan. 4; v. 282; p. 29.
- Burner-regulation system. J. Good. No. 1,393,280; Oct. 11.
- Burner-support. A. W. Morse. No. 1,391,338; Sept. 20; v. 290; p. 513.
- Burner-support. S. Pearson. No. 1,389,841; Sept. 6; v. 290; p. 57.
- Burners, Attachment for liquid and gaseous. H. L. Beach. No. 1,367,728; Feb. 8; v. 283; p. 225.
- Burners, Automatic shut-off for. A. U. Särnmark. No. 1,364,145; Jan. 4; v. 282; p. 19.
- Burners, Cleanout for. E. Folgman. No. 1,379,544; May 24; v. 286; p. 785.
- Burners Combustion-chamber for sulfur-. F. B. Chappell. No. 1,382,343; June 21; v. 287; p. 494.
- Burners, Controlling means for centrifugal oil-. S. Elliott. No. 1,371,231; Mar. 15; v. 284; p. 388.
- Burners, Fuel-control system for. J. A. Dobie. No. 1,399,938; Dec. 13.
- Burners, Gas-saving attachment for. A. Ackron. No. 1,395,979; Nov. 1.
- Burners, Oil-feed for wickless oil-. C. H. Stenberg. No. 1,383,167; June 28; v. 287; p. 705.
- Burners, Safety device for hydrocarbon-. W. H. Chadick. No. 1,377,873; May 10; v. 286; p. 343.
- Burners, Valve-operating mechanism for vapor-. O. E. Quinton. No. 1,391,976; Sept. 27; v. 290; p. 715.
- Burners, Vaporizer for oil-. C. E. Eckert. No. 1,384,522; July 12; v. 288; p. 311.
- Burning combustible mixtures, Method of and apparatus for. R. F. Metcalfe. No. 1,380,997; June 7; v. 287; p. 129.
- Burning compositions, Binder for. E. P. Aurand. No. 1,388,501; Aug. 23; v. 289; p. 685.
- Burnishing-machine. E. D. Grant. No. 1,368,794; Feb. 15; v. 283; p. 478.
- Burnishing-machine. H. M. Loomer. No. 1,395,285; Nov. 1.
- Burnishing-machine. E. S. Rauworth. No. 1,368,752; Feb. 15; v. 283; p. 471.
- Burnishing machine, Metal-. W. B. Smith. No. 1,401,563; Dec. 27.
- Burnishing-wheel cover. C. Spasoff. No. 1,382,254; June 21; v. 287; p. 477.
- Burrowing-machine. A. B. Saliger. No. 1,372,317; Mar. 22; v. 284; p. 656.
- Burrowing-machine. A. B. Saliger. No. 1,372,318; Mar. 22; v. 284; p. 656.
- Bus-bar clamp. F. E. Getts. No. 1,380,550; June 7; v. 287; p. 43.
- Bushing. A. McMurtrie. No. 1,391,396; Sept. 20; v. 290; p. 525.
- Bushing. E. E. Tompkins. No. 1,373,778; Apr. 5; v. 285; p. 77.
- Bushing, Adjustable. H. M. Close and H. G. Taylor. No. 1,371,666; Mar. 15; v. 284; p. 475.



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- Bushing extractor and inserter. L. E. Renfro. No. 1,369,544; Feb. 22; v. 283; p. 663.
- Bushing, Flexible. O. R. Wikander. No. 1,384,173; July 12; v. 288; p. 239.
- Bushing, Lubricated pulley-. J. C. Sharp. No. 1,386,962; Aug. 9; v. 289; p. 270.
- Bushing-remover. F. O. Albertson. No. 1,381,101; June 14; v. 287; p. 201.
- Bushing-remover. P. G. Gully. No. 1,400,676; Dec. 20.
- Bushing-remover. H. Konopaska. No. 1,391,837; Sept. 27; v. 290; p. 687.
- Bushing-tool. A. K. Johnson. No. 1,382,834; June 28; v. 287; p. 641.
- Bushing-tool. A. K. Johnson. No. 1,382,835; June 28; v. 287; p. 642.
- Bushing unit, Lubricated. J. C. Sharp. No. 1,386,960; Aug. 9; v. 289; p. 270.
- Bushings in tubular holders, Implement for displacing. L. C. Edelblut. No. 1,364,489; Jan. 4; v. 282; p. 86.
- Bust-pad holder. L. L. Bradford. No. 1,387,586; Aug. 16; v. 289; p. 446.
- Bust-supporter. K. Hadley. No. 1,400,056; Dec. 13.
- Butchering-machine. J. White. No. 1,386,824; Aug. 9; v. 289; p. 243.
- Butt and set gage. A. Zetterman. No. 1,297,569; Nov. 22.
- Butt-hook. C. Vala. No. 1,388,494; Aug. 23; v. 289; p. 683.
- Butt-welding-thin-gage tubing, Method and apparatus for. G. V. Johnston. No. 1,388,434; Aug. 23; v. 289; p. 672.
- Butter-cooler. G. Lawrence. No. 1,375,397; Apr. 19; v. 285; p. 493.
- Butter-cutter. W. E. Penn. No. 1,382,540; June 21; v. 287; p. 531.
- Butter-cutter. W. H. Ruttle. No. 1,370,158; Mar. 1; v. 284; p. 76.
- Butter-dispenser, Automatic. E. Hartung. No. 1,399,768; Dec. 13.
- Butter-fat gage. J. A. Meeker. No. 1,375,057; Apr. 19; v. 285; p. 428.
- Butter, Machine for forming and wrapping small packages of. W. O. Rew. No. 1,384,921; July 19; v. 288; p. 474.
- Butter, Making. W. P. Heath. No. 1,384,318; July 12; v. 288; p. 269.
- Butter-making machine. C. H. Halt. No. 1,388,639; Aug. 23; v. 289; p. 711.
- Butter-oil from milk, skim-milk, cream, buttermilk, butter, &c. W. Alexander. No. 1,401,853; Dec. 27.
- Butter pads, Device for making. R. Kessler. No. 1,396,438; Nov. 8.
- Butter-print machine. H. H. and C. Doering. No. 1,384,245; July 12; v. 288; p. 254.
- Butter substitutes, edible fats, and the like, Manufacture of. W. Clayton and G. Nodder. No. 1,398,003; Nov. 22.
- Butter-wrapper. J. W. Low. No. 1,391,551; Sept. 20; v. 290; p. 556.
- Butterine, Means for making. N. D. Nielsen. No. 1,364,297; Jan. 4; v. 282; p. 49.
- Buttering device. E. C. Booth. No. 1,366,902; Feb. 1; v. 283; p. 4.
- Buttermilk, buttermilk powder, and making same, Condensed. I. S. Merrell. No. 1,370,828; Mar. 8; v. 284; p. 250.
- Buttermilk, Concentrated. I. S. Merrell. No. 1,391,642; Sept. 20; v. 290; p. 574.
- Button. L. A. Angle. No. 1,383,591; July 5; v. 288; p. 69.
- Button. W. Burt. No. 1,368,695; Feb. 15; v. 283; p. 460.
- Button. W. Colley. No. 1,400,420; Dec. 13.
- Button. R. Engelbrecht. No. 1,386,772; Aug. 9; v. 289; p. 232.
- Button. S. Gulick. No. 1,397,957; Nov. 22.
- Button. J. O. Hagberg. No. 1,367,963; Feb. 8; v. 283; p. 269.
- Button. L. J. Hart and F. R. White. No. 1,378,108; May 17; v. 286; p. 440.
- Button. C. Iligan and R. Hessel. No. 1,367,547; Feb. 8; v. 283; p. 190.
- Button. A. Latham. No. 1,388,469; Aug. 23; v. 289; p. 679.
- Button. A. Latham. No. 1,388,470; Aug. 23; v. 289; p. 679.
- Button. A. Latham. No. 1,388,471; Aug. 23; v. 289; p. 679.
- Button. M. Lipkin. No. 1,367,555; Feb. 8; v. 283; p. 191.
- Button. F. A. Roberts. No. 1,373,976; Apr. 5; v. 285; p. 117.
- Button. C. Silverman. No. 1,387,948; Aug. 16; v. 289; p. 518.
- Button. E. B. Thielke. No. 1,378,150; May 17; v. 286; p. 448.
- Button. J. Waldes. No. 1,375,873; Apr. 26; v. 285; p. 616.
- Button. F. R. White. No. 1,378,073; May 17; v. 286; p. 434.
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- Button. F. R. White. No. 1,378,075; May 17; v. 286; p. 434.
- Button. F. R. White. No. 1,378,076; May 17; v. 286; p. 434.
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- Button and buckle, One-piece. E. A. Essmuller and L. D. Huggins. No. 1,386,339; Aug. 2; v. 289; p. 75.
- Button and necktie-guiding device, Combined collar-. A. M. Goldstein. No. 1,373,418; Apr. 5; v. 285; p. 7.
- Button-attaching machine. J. S. Finch. No. 1,364,265; Jan. 4; v. 282; p. 43.
- Button-attaching machine. P. R. Glass. No. 1,399,762; Dec. 13.
- Button-blank gage. R. Stanforth and L. A. Angle. No. 1,393,846; Oct. 18.
- Button blanks, Making pearl-. E. B. Hammer, H. H. Knott, and C. J. Jungbluth. No. 1,377,491; May 10; v. 286; p. 270.
- Button-card. L. W. Harlem. No. 1,388,833; Aug. 23; v. 289; p. 748.
- Button, Celluloid. M. Patremio. No. 1,382,739; June 28; v. 287; p. 624.
- Button, Collar-. L. G. Baldwin. No. 1,382,452; June 21; v. 287; p. 515.
- Button, Collar-. C. T. Boyer. No. 1,368,423; Feb. 15; v. 283; p. 406.
- Button, Collar-. S. Butterworth. No. 1,374,355; Apr. 12; v. 285; p. 229.
- Button, Collar-. M. Gestrich. No. 1,373,234; Mar. 29; v. 284; p. 877.
- Button, Collar-. R. A. Kahl. No. 1,378,238; May 17; v. 286; p. 464.
- Button, Collar-. R. A. Kahl. No. 1,383,310; July 5; v. 288; p. 11.
- Button, Collar-. J. Wunder. No. 1,379,377; May 24; v. 286; p. 754.
- Button, Cuff-. R. E. B. Allen. No. 1,398,954; Dec. 6.
- Button, Cuff-. C. L. Faulk. No. 1,391,620; Sept. 20; v. 290; p. 570.
- Button, Cuff-. W. A. Lapinski. No. 1,367,154; Feb. 1; v. 283; p. 54.
- Button, Cuff-. C. D. Lyons. No. 1,388,522; Aug. 23; v. 289; p. 689.
- Button, Cuff-. J. B. Sabourin. No. 1,382,123; June 21; v. 287; p. 452.
- Button, Cuff-. M. J. Sullivan. No. 1,380,268; May 31; v. 286; p. 996.
- Button, Cuff-. J. C. Throop. No. 1,371,131; Mar. 8; v. 284; p. 306.
- Button, Detachable. V. F. Meiff. No. 1,368,277; Feb. 15; v. 283; p. 378.
- Button, Detachable. J. Pollard. No. 1,372,449; Mar. 22; v. 284; p. 680.
- Button, Detachable. M. Sorensen. No. 1,368,065; Feb. 8; v. 283; p. 288.
- Button-fastener. G. F. Armstrong. No. 1,401,232; Dec. 27.
- Button-fastener. N. Gurewitsch. No. 1,397,376; Nov. 15.
- Button fastener, Turn-. G. A. Holmes. No. 1,375,756; Apr. 26; v. 285; p. 593.
- Button-fasteners, Attacher for. H. H. Daniels. No. 1,394,476; Oct. 18.
- Button-feeding instrumentality for button-setting machines. J. Kelly. No. 1,398,026; Nov. 22.
- Button, Flexible clasp-. C. M. Webb and T. Miller. No. 1,390,847; Sept. 13; v. 290; p. 350.
- Button, Foldable link-. J. L. Herzog. No. 1,367,141; Feb. 1; v. 283; p. 51.
- Button, Fur-. B. Cohen. No. 1,364,718; Jan. 4; v. 282; p. 129.
- Button-hole clip. W. H. Osmer. No. 1,365,122; Jan. 11; v. 282; p. 251.
- Button or badge. C. F. Mitchel. No. 1,396,137; Nov. 8.
- Button, Pin-on. A. C. Rovelli. No. 1,375,231; Apr. 19; v. 285; p. 462.
- Button, Press-. A. Mann. (Reissue.) No. 15,212; Oct. 25.
- Button, Separable cuff-. A. J. Kennedy. No. 1,384,529; July 12; v. 288; p. 313.
- Button, Separable cuff-. W. R. Larter. No. 1,379,192; May 24; v. 286; p. 719.
- Button-setting machine. A. F. Cook and L. R. Reed. No. 1,374,360; Apr. 12; v. 285; p. 230.
- Button-setting machine. J. Kelly. No. 1,398,027; Nov. 22.
- Button-stapling machine. J. S. Finch. No. 1,364,264; Jan. 4; v. 282; p. 42.
- Button, Tool-maker's. A. H. Starrett. No. 1,365,203; Jan. 11; v. 282; p. 267.
- Buttons, Card for holding. W. L. Rothschild. No. 1,401,736; Dec. 27.
- Buttons, Device for cleaning. E. Wessely. No. 1,378,987; May 24; v. 286; p. 680.
- Buttons, Fastening of the spring-sockets of press-. A. Prym. No. 1,399,319; Dec. 6.
- Buttons, Making glass collar-. M. J. Karabin, J. Skoclokh, and K. Mandl. No. 1,372,294; Mar. 22; v. 284; p. 651.
- Buttons, Manufacturing connecting members or links for cuff-. J. W. Schoellner and J. P. Rowley. No. 1,388,973; Aug. 30; v. 289; p. 832.
- Buttons, Package of. W. E. Elliott. No. 1,389,188; Aug. 30; v. 289; p. 875.
- Buttons, Parallel clamp for holding jig and fixture. H. V. Gould. No. 1,394,004; Oct. 18.
- Buttons, Securing device for detachable. H. Kocourek. No. 1,376,817; May 3; v. 286; p. 83.



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- Buttonhole-cutter. F. A. Reece. No. 1,372,630; Mar. 22; v. 284; p. 715.
- Buttonhole-cutting and stitching machine. E. B. Allen. No. 1,380,339; June 7; v. 287; p. 3.
- Buttonhole-cutting mechanism. E. B. Allen. No. 1,380,340; June 7; v. 287; p. 3.
- Buttonhole-sewing machine. H. C. Searle. No. 1,388,313; Aug. 23; v. 289; p. 647.
- Buttonhole, Stitched. J. Coffey. No. 1,389,027; Aug. 30; v. 289; p. 843.
- Buttoning-machine. L. J. Bazzoni. No. 1,400,714; Dec. 20.
- By-product-recovery apparatus. A. Roberts. No. 1,366,494; Jan. 25; v. 282; p. 602.
- C. O. D. envelop container. W. P. Noble. No. 1,374,218; Apr. 12; v. 285; p. 203.
- Cab-turret, Invisible. H. R. Stafford. No. 1,392,457; Oct. 4.
- Cabinet. H. R. Cornelison. No. 1,391,462; Sept. 20; v. 290; p. 538.
- Cabinet. G. N. Davidson. No. 1,367,358; Feb. 1; v. 283; p. 95.
- Cabinet. H. De Haven. No. 1,369,303; Feb. 22; v. 283; p. 615.
- Cabinet. L. C. Dimick. No. 1,380,539; June 7; v. 287; p. 41.
- Cabinet. W. H. Friedline. No. 1,376,266; Apr. 26; v. 285; p. 691.
- Cabinet. T. J. Hile. No. 1,386,500; Aug. 2; v. 289; p. 104.
- Cabinet. G. J. Loos. No. 1,368,515; Feb. 15; v. 283; p. 424.
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- Cabinet. M. P. Schwartz. No. 1,378,285; May 17; v. 286; p. 473.
- Cabinet. J. F. Schylander. No. 1,398,744; Nov. 29.
- Cabinet. C. A. Stromberg. No. 1,377,938; May 10; v. 286; p. 356.
- Cabinet, Advertising. C. E. Closson. No. 1,393,665; Oct. 11.
- Cabinet and equipments therefor, Type. M. C. Harris. No. 1,396,199; Nov. 8.
- Cabinet and using same, Electrically-heated shoe. A. A. Dionne. No. 1,372,488; Mar. 22; v. 284; p. 688.
- Cabinet attachment, Automobile. M. J. Hilberg. No. 1,376,693; May 3; v. 286; p. 59.
- Cabinet, Automatic type. W. S. Russell. No. 1,393,317; Oct. 11.
- Cabinet, Baby toilet. A. M. Garwood. No. 1,399,956; Dec. 13.
- Cabinet, Clothes-drying. P. J. Catello. No. 1,395,797; Nov. 1.
- Cabinet, Cobbler's. M. Panian. No. 1,387,303; Aug. 9; v. 289; p. 337.
- Cabinet, Combination. J. Matlevich. No. 1,391,487; Sept. 20; v. 290; p. 543.
- Cabinet, Commodity. J. H. Boye. No. 1,374,549; Apr. 12; v. 285; p. 268.
- Cabinet, Cooking. A. E. Guidel. No. 1,375,148; Apr. 19; v. 285; p. 446.
- Cabinet, Delivery. T. A. Matthews. No. 1,395,857; Nov. 1.
- Cabinet, Dentist's. R. Klicka. No. 1,388,347; Aug. 23; v. 289; p. 654.
- Cabinet, Disk-record. A. J. Crippen. No. 1,375,085; Apr. 19; v. 285; p. 433.
- Cabinet, Dispensing. W. E. Cassel. No. 1,379,524; May 24; v. 286; p. 782.
- Cabinet, Dispensing. J. Fritsche. No. 1,367,033; Feb. 1; v. 283; p. 30.
- Cabinet, Display. B. L. Johnson. No. 1,379,867; May 31; v. 286; p. 920.
- Cabinet, Display. A. C. Michel. No. 1,379,035; May 24; v. 286; p. 689.
- Cabinet, Display. F. Wolf. No. 1,382,704; June 28; v. 287; p. 617.
- Cabinet-door. C. A. Sonnenberg. No. 1,386,738; Aug. 9; v. 289; p. 225.
- Cabinet, Drophead-sewing-machine. T. Kundtz. No. 1,379,828; May 31; v. 286; p. 913.
- Cabinet, Filing. A. P. Asher. No. 1,384,880; July 19; v. 288; p. 467.
- Cabinet, Filing. H. L. De Lisle. No. 1,381,907; June 21; v. 287; p. 413.
- Cabinet, Filing. J. Herzog. No. 1,392,055; Sept. 27; v. 290; p. 731.
- Cabinet, Filing. C. F. Meilink. No. 1,365,523; Jan. 11; v. 282; p. 329.
- Cabinet, Filing. D. J. Smith. No. 1,366,427; Jan. 25; v. 282; p. 588.
- Cabinet, Filing. C. R. Southwell. No. 1,389,279; Aug. 30; v. 289; p. 893.
- Cabinet, Filing. C. Studer. No. 1,381,361; June 14; v. 287; p. 249.
- Cabinet, Film. E. W. Salmon, Jr. No. 1,400,503; Dec. 13.
- Cabinet, Flexible filing. C. G. Ray. No. 1,401,188; Dec. 27.
- Cabinet follower, Fire. A. N. Thomas. No. 1,391,595; Sept. 20; v. 290; p. 565.
- Cabinet for domestic lighting plants. B. A. Linderman. No. 1,396,223; Nov. 8.
- Cabinet for phonographic records. A. E. Michaelson. No. 1,388,284; Aug. 23; v. 289; p. 641.
- Cabinet for plans, Filing. V. Geoffrion. No. 1,391,313; Sept. 20; v. 290; p. 508.
- Cabinet for talking-machine records. E. Blaise. No. 1,394,964; Oct. 25.
- Cabinet for tympanum-phonographs. E. A. Widmann. No. 1,386,040; Aug. 2; v. 289; p. 16.
- Cabinet, Ice-cream. W. F. Beatty. No. 1,370,270; Mar. 1; v. 284; p. 98.
- Cabinet, Ironing. F. W. Hurst. No. 1,387,721; Aug. 16; v. 289; p. 473.
- Cabinet, Key. J. Benson. No. 1,389,181; Aug. 30; v. 289; p. 873.
- Cabinet, Kitchen. W. A. Duncan. No. 1,400,145; Dec. 13.
- Cabinet, Kitchen. G. C. Frantz. No. 1,375,144; Apr. 19; v. 285; p. 445.
- Cabinet, Kitchen. R. Hoffman. No. 1,367,927; Aug. 16; v. 289; p. 514.
- Cabinet, Kitchen. G. Townley. No. 1,369,577; Feb. 22; v. 283; p. 670.
- Cabinet, Kitchenette. C. H. Cooper. No. 1,394,146; Oct. 18.
- Cabinet, Ledger-posting-machine. A. F. Curtiss. No. 1,376,608; May 3; v. 286; p. 43.
- Cabinet-maker's clamp. S. A. Holmquist. No. 1,397,961; Nov. 22.
- Cabinet, Medicine. H. L. Drew. No. 1,375,901; Apr. 26; v. 285; p. 621.
- Cabinet, Medicine. E. F. Turner. No. 1,368,863; Feb. 15; v. 283; p. 492.
- Cabinet, Music-roll. G. Merlo. No. 1,396,378; Nov. 8.
- Cabinet, Music-roll. E. D. Olmstead. No. 1,368,192; Feb. 8; v. 283; p. 313.
- Cabinet, Needle and shuttle selling. F. H. Bachelder. No. 1,369,213; Feb. 22; v. 283; p. 599.
- Cabinet or furniture clamp. L. Nygren. No. 1,369,533; Feb. 22; v. 283; p. 661.
- Cable or rope connector or anchor. J. H. Rosemeyer. No. 1,385,645; July 26; v. 288; p. 700.
- Cabinet or tray, Filing. E. Ohnstrand. No. 1,381,491; June 14; v. 287; p. 273.
- Cabinet, Phonograph. J. H. Weber. No. 1,393,470; Oct. 11.
- Cabinet, Record-rack. G. G. Ross. No. 1,394,864; Oct. 25.
- Cabinet, Safety. A. and P. Miller. No. 1,382,527; June 21; v. 287; p. 529.
- Cabinet, Salt-vapor. H. J. Nullett. No. 1,375,602; Apr. 19; v. 285; p. 532.
- Cabinet, Selective roller filing. W. F. Drew. No. 1,375,493; Apr. 19; v. 285; p. 511.
- Cabinet, Sewing. S. A. Clark. No. 1,396,624; Nov. 8.
- Cabinet, Shower-bath. B. Landau. No. 1,392,580; Oct. 4.
- Cabinet, Stationery. W. H. Smythe. No. 1,391,082; Sept. 20; v. 290; p. 461.
- Cabinet structure, Metal. M. C. and D. Powell. No. 1,368,052; Feb. 8; v. 283; p. 286.
- Cable-support. M. D. Wood. No. 1,384,583; July 12; v. 288; p. 324.
- Cabinet, Talking-machine. A. N. Montulet. No. 1,368,347; Feb. 15; v. 283; p. 395.
- Cabinet, Toilet. R. S. C. Fow. No. 1,365,313; Jan. 11; v. 282; p. 288.
- Cabinet, Tool. J. and C. H. Peters. No. 1,371,434; Mar. 15; v. 284; p. 429.
- Cabinet, Towel dispensing. G. E. Hadley and W. E. Riley. No. 1,380,648; June 7; v. 287; p. 61.
- Cabinet, Treating. E. H. Golden. No. 1,364,365; Jan. 4; v. 282; p. 62.
- Cabinet, Typewriter. M. P. Connolly. No. 1,364,917; Jan. 11; v. 282; p. 212.
- Cabinet, Unit metal transfer. P. H. Yawman. No. 1,400,710; Dec. 20.
- Cabinets, Attachment for filing. O. H. J. Brauer. No. 1,382,466; June 21; v. 287; p. 518.
- Cabinets, Attachment for filing. L. M. Church. No. 1,369,884; Mar. 1; v. 284; p. 25.
- Cabinets, Combination record rack and ejector for. J. F. Biggs. No. 1,396,156; Nov. 8.
- Cabinets, Drain for ice-cream. L. G. Gray. No. 1,382,352; June 21; v. 287; p. 495.
- Cabinets, Towel. A. Miller. No. 1,387,932; Aug. 16; v. 289; p. 515.
- Cable and making the same. P. H. Chase. No. 1,370,731; Mar. 8; v. 284; p. 231.
- Cable and telephone-wire containing rail. F. Gaspar. No. 1,401,531; Dec. 27.
- Cable arrangement for towing. L. V. W. Froger. No. 1,378,102; May 17; v. 286; p. 438.
- Cable-clamp. G. E. Eckert. No. 1,378,667; May 17; v. 286; p. 547.
- Cable-clamp. F. Hotchner. No. 1,396,115; Nov. 8.
- Cable-clamp. B. B. Lacy. No. 1,372,704; Mar. 29; v. 284; p. 770.
- Cable-clamp. C. W. and J. T. Kemper. No. 1,366,007; Jan. 18; v. 282; p. 463.
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- Cable. Device for cutting wire. J. G. Burch. No. 1,374,278; Apr. 12; v. 285; p. 215.
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- Cable fuse and handle, Trailing-. J. F. Joy. No. 1,371,310; Mar. 15; v. 284; p. 404.
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- Cable-railways, Traction system for. S. A. Rogers. No. 1,386,534; Aug. 2; v. 289; p. 111.
- Cable-reciprocating apparatus. H. McLaren. No. 1,395,850; Nov. 1.
- Cable-reeling apparatus. G. F. Atwood. No. 1,396,721; Nov. 15.
- Cable-repair device. R. N. Riblet. No. 1,389,785; Sept. 6; v. 290; p. 45.
- Cable, Sector-. H. P. M. Carter. No. 1,393,750; Oct. 18.
- Cable-securing device particularly applicable to the fixation of electric cables on carbon-brushes. E. Gindre. No. 1,400,357; Dec. 13.
- Cable-shackle. H. M. Rhorer and J. T. Davls. No. 1,401,494; Dec. 27.
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- Cable-splice. C. Vignos. No. 1,387,334; Aug. 9; v. 289; p. 344.
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- Cable suspension-clamp. W. A. Graham. No. 1,373,421; Apr. 5; v. 285; p. 8.
- Cable take-up. W. C. F. Zimmerman, Jr. No. 1,382,046; June 21; v. 287; p. 438.
- Cable tap, Electric-. H. M. Lamb. No. 1,378,801; May 17; v. 286; p. 572.
- Cable-tie-clamping device. J. H. Jessup. No. 1,384,762; July 19; v. 288; p. 442.
- Cable-tie hanger. J. H. Jessup. No. 1,384,761; July 19; v. 288; p. 442.
- Cable-tightener. A. Barnes. No. 1,389,475; Aug. 30; v. 289; p. 932.
- Cable-transmitter. F. L. Rogers. No. 1,366,838; Jan. 25; v. 282; p. 671.
- Cable-winding device. W. F. Grams. No. 1,367,811; Feb. 8; v. 283; p. 241.
- Cables, Apparatus for severing. C. Tossizza. No. 1,397,911; Nov. 22.
- Cables, Bracket for suspending. O. Edelmann. No. 1,384,437; July 12; v. 288; p. 294.
- Cables, Dead-end clamp for. T. M. Williams. No. 1,381,779; June 14; v. 287; p. 328.
- Cables, Device for tightening. T. J. Hughes. No. 1,388,716; Aug. 23; v. 289; p. 726.
- Cables, Device for tightening wire. L. N. Amans. No. 1,372,792; Mar. 29; v. 284; p. 788.
- Cables, Retaining device for elevating-. B. F. Fitch. No. 1,399,053; Dec. 6.
- Cables, Tool for splicing. N. K. Bowman. No. 1,399,101; Dec. 6.
- Cableway. W. Graham. No. 1,365,982; Jan. 18; v. 282; p. 458.
- Cableway. T. S. Miller. No. 1,401,271; Dec. 27.
- Cableway-carriage mechanism. W. M. Venable. No. 1,373,541; Apr. 5; v. 285; p. 32.
- Cableway-operating engine. G. Frink. No. 1,395,673; Nov. 1.
- Cableways, Slack-puller for. K. Berger. No. 1,393,604; Oct. 11.
- Cactus, Making stock food from. W. Gebhardt. No. 1,394,162; Oct. 18.
- Caddy-box. A. S. Peck. No. 1,387,167; Aug. 9; v. 289; p. 311.
- Cadmium pigment, Manufacture of. J. R. Marston. No. 1,399,506; Dec. 6.
- Cage, Movable. W. W. Ray. No. 1,373,350; Mar. 29; v. 284; p. 900.
- Cages, lifts, and the like, Safety device for mine-. W. Griffin. No. 1,389,867; Sept. 6; v. 290; p. 62.
- Cages, Machine for clenching roller-bearing. J. Bingham. No. 1,383,376; July 5; v. 288; p. 25.
- Cages, Safety device for mine-. O. Glenn. No. 1,391,539; Sept. 20; v. 290; p. 554.
- Caisson. L. L. Brown and H. J. Deutschbein. No. 1,369,217; Feb. 22; v. 283; p. 600.
- Caissons, cofferdams, and the like. Construction of. C. S. Boardman. No. 1,398,221; Nov. 29.
- Cake and filler feeder, Combined. G. A. Meier and C. J. Wicker. No. 1,382,209; June 21; v. 287; p. 468.
- Cake-baking pan. M. A. Miller. No. 1,388,364; Aug. 23; v. 289; p. 658.
- Cake-coating machines, Nozzle for. W. Costello, Jr. No. 1,384,601; July 12; v. 288; p. 328.
- Cake-cutter. L. C. Trethewey. No. 1,399,449; Dec. 6.
- Cake-formers, Attachment for. A. C. Hammond. No. 1,377,831; May 10; v. 286; p. 335.
- Cake forming and cutting machine, Fried-. J. B. Winans. No. 1,393,872; Oct. 18.
- Cake-machine. W. Peters. No. 1,397,981; Nov. 22.
- Cake receiving and assembling machine, Multiple-guide-row stacked-. P. Rasmussen. No. 1,397,656; Nov. 22.
- Cake receiving, separating, dividing, and centralizing machine, Automatically-operating. P. Rasmussen. No. 1,397,655; Nov. 22.
- Cake-stacking machines, Transversely-adjustable chute for. P. Rasmussen. No. 1,397,657; Nov. 22.
- Cakes, &c., Apparatus for making. H. L. Powell. No. 1,399,873; Dec. 13.
- Calcing. C. A. King and W. S. Rawson. No. 1,400,443; Dec. 13.
- Calcing alunite. H. F. Chappell. Nos. 1,401,136-7; Dec. 27.
- Calcing phosphate rock, Apparatus for. M. Shoeld. No. 1,393,840; Oct. 18.
- Calcing process, Phosphate-rock-. M. Shoeld. No. 1,393,839; Oct. 18.
- Calcium-bisulfite cooking liquor, Making. G. A. Richter. No. 1,378,617; May 17; v. 286; p. 537.
- Calcium bisulfite, Making. G. A. Richter. No. 1,378,616; May 17; v. 286; p. 537.
- Calcium carbonate, Manufacturing of. L. Roon. No. 1,372,193; Mar. 22; v. 284; p. 631.
- Calcium carbonate, Treating. W. H. Alton. No. 1,379,157; May 24; v. 286; p. 712.
- Calcium cyanamid, Granulating. P. Savés. No. 1,399,660; Dec. 6.
- Calculating and like machines, Vertical-ruling mechanism for. W. S. Gublemann. No. 1,370,499; Mar. 1; v. 284; p. 141.
- Calculating device. T. J. Dalzell. No. 1,397,944; Nov. 22.
- Calculating device. H. L. Eastman and F. B. Rae. No. 1,378,666; May 17; v. 286; p. 546.
- Calculating device. W. E. Harris. No. 1,401,692; Dec. 27.
- Calculating device. H. Muller. No. 1,397,596; Nov. 22.
- Calculating device. F. H. Seely. No. 1,383,492; July 5; v. 288; p. 49.
- Calculating-machine. W. O. J. Andersson. No. 1,381,898; June 21; v. 287; p. 411.
- Calculating-machine. J. H. Bair. No. 1,371,138. Mar. 8; v. 284; p. 308.
- Calculating-machine. C. Birth. No. 1,386,758; Aug. 9; v. 289; p. 229.
- Calculating-machine. J. Blanstein. No. 1,369,958; Mar. 1; v. 284; p. 39.
- Calculating-machine. J. Blanstein. No. 1,370,493; Mar. 1; v. 284; p. 140.
- Calculating-machine. J. M. Brandevin. No. 1,371,847; Mar. 15; v. 284; p. 509.
- Calculating-machine. A. Briechele. No. 1,368,424; Feb. 15; v. 283; p. 406.
- Calculating-machine. A. S. Dennis. No. 1,383,607; July 5; v. 288; p. 72.
- Calculating-machine. H. Enders. No. 1,364,624; Jan. 4; v. 282; p. 111.
- Calculating-machine. C. M. F. Friden. No. 1,379,009; May 24; v. 286; p. 684.
- Calculating-machine. H. Golber. No. 1,396,326; Nov. 8.
- Calculating-machine. H. E. Goldberg, (now H. Golber.) No. 1,369,097; Feb. 22; v. 283; p. 577.
- Calculating-machine. H. E. Goldberg or H. Golber. No. 1,380,792; June 7; v. 287; p. 89.
- Calculating-machine. F. E. Guy. No. 1,395,983; Nov. 1.
- Calculating-machine. H. Hopkins. No. 1,366,566; Jan. 25; v. 282; p. 617.
- Calculating-machine. W. W. Hopkins. No. 1,367,877; Feb. 8; v. 283; p. 254.
- Calculating-machine. E. Kuikka. No. 1,385,350; July 19; v. 288; p. 562.
- Calculating-machine. A. S. Milinowski. No. 1,385,700; July 26; v. 288; p. 711.
- Calculating-machine. V. J. Odhner. No. 1,371,185; Mar. 8; v. 284; p. 316.
- Calculating-machine. V. J. Odhner. No. 1,377,270; May 10; v. 286; p. 226.
- Calculating-machine. V. J. Odhner. No. 1,387,608; Aug. 16; v. 289; p. 450.
- Calculating-machine. E. E. Phinney. No. 1,396,662; Nov. 8.
- Calculating-machine. A. F. Poole. No. 1,374,762; Apr. 12; v. 285; p. 308.
- Calculating-machine. A. F. Poole. No. 1,394,641; Oct. 25.



- Calculating-machine. A. Rechnitzer. No. 1,398,945; Nov. 29.
- Calculating-machine. C. Schaller. Nos. 1,400,003-4; Dec. 13.
- Calculating-machine. E. C. Schinke and N. A. Sutherland. No. 1,388,379; Aug. 23; v. 289; p. 661.
- Calculating-machine. E. C. Schinke and N. A. Sutherland. No. 1,396,886; Nov. 15.
- Calculating-machine. P. N. Sea. No. 1,381,851; June 14; v. 287; p. 342.
- Calculating-machine. M. Teetor. No. 1,371,526; Mar. 15; v. 284; p. 448.
- Calculating-machine. F. J. Tillman. No. 1,394,800; Oct. 25.
- Calculating-machine. F. Trinks. No. 1,390,180; Sept. 6; v. 290; p. 125.
- Calculating-machine. F. Trinks. No. 1,400,105; Dec. 13.
- Calculating-machine. J. A. V. Turck. No. 1,371,953; Mar. 15; v. 284; p. 128.
- Calculating-machine. J. A. V. Turck. No. 1,371,954; Mar. 15; v. 284; p. 529.
- Calculating-machine. J. A. V. Turck. No. 1,391,220; Sept. 20; v. 290; p. 488.
- Calculating-machine. J. C. Wahl. No. 1,366,683; Jan. 25; v. 282; p. 640.
- Calculating-machine. J. C. Wahl. No. 1,397,188; Nov. 15.
- Calculating-machine. J. C. Wahl. No. 1,400,584; Dec. 20.
- Calculating-machine, Lapsed-time-. C. P. Evans. No. 1,377,620; May 10; v. 286; p. 293.
- Calculating-machines, Algebraic-total. H. Golber. No. 1,398,074; Nov. 22.
- Calculating-machines, Arresting means for the shifting-crank of. V. J. Odhner. No. 1,399,645; Dec. 6.
- Calculating-machines, Carriage-lock for. E. E. Phinney. No. 1,384,634; July 12; v. 288; p. 335.
- Calculating-machines, Key-lock for. E. E. Phinney. No. 1,384,632; July 12; v. 288; p. 335.
- Calculating-machines, Locking device in. V. J. Odhner. No. 1,392,847; Oct. 4.
- Calculating-machines, Rack-bar and bearing for. O. D. Johantgen. No. 1,378,119; May 17; v. 286; p. 442.
- Calculating-machines, Setting-up means for. E. E. Phinney. No. 1,399,652; Dec. 6.
- Calculating-machines, Transfer mechanism for. A. S. Dennis. No. 1,364,618; Jan. 4; v. 282; p. 110.
- Calculating-machines, Transfer mechanism of. V. J. Odhner. No. 1,377,269; May 10; v. 286; p. 226.
- Calculator. I. L. Hoffer. No. 1,365,997; Jan. 18; v. 282; p. 461.
- Calculator, Calendar-. E. H. Miller. No. 1,370,220; Mar. 1; v. 284; p. 88.
- Calculator for maturities. C. Villegas. No. 1,384,789; July 19; v. 288; p. 448.
- Calculators, Carriage-shifting device for. V. J. Odhner. No. 1,373,524; Apr. 5; v. 285; p. 29.
- Calderons, Stirring device for. F. Milhahn. No. 1,401,806; Dec. 27.
- Calendar. J. A. Chrysander. No. 1,375,567; Apr. 19; v. 285; p. 525.
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- Calendar. H. T. Reed. No. 1,399,880; Dec. 13.
- Calendar. H. E. Shedd. No. 1,366,604; Jan. 25; v. 282; p. 625.
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- Calendar, Drop-leaf. J. A. Stevens. No. 1,371,269; Mar. 15; v. 284; p. 396.
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- Calendar-pad and mount therefor. W. Y. Dear. No. 1,396,814; Nov. 15.
- Calendar, Peace century. E. G. Keck. No. 1,368,162; Feb. 8; v. 283; p. 307.
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- Calendar, Perpetual. W. L. Jones. No. 1,367,053; Feb. 1; v. 283; p. 34.
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- Calendar, Perpetual. N. Wilde. No. 1,369,865; Mar. 1; v. 284; p. 21.
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- Calendering-machine. W. S. Moore. No. 1,372,766; Mar. 29; v. 284; p. 783.
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- Calf-weaner. H. J. Schmoll. No. 1,382,555; June 21; v. 287; p. 535.
- Calf-weaning device. M. C. Schow. No. 1,388,608; Aug. 23; v. 289; p. 705.
- Calibrating transparent tubes, Device for. A. Mazzi and F. Martini. No. 1,394,423; Oct. 18.
- Caliper attachment, Indicating. G. V. Chelstrom. No. 1,382,061; June 21; v. 287; p. 441.
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- Caliper, Direct-reading micrometer-. A. L. Colburn. No. 1,389,028; Aug. 30; v. 289; p. 843.
- Caliper, Micrometer-. G. Cousins. No. 1,393,266; Oct. 11.
- Caliper, Micrometer-. F. H. Miller. No. 1,388,740; Aug. 23; v. 289; p. 731.
- Caliper, Pin. J. D. Malloy. No. 1,379,116; May 24; v. 286; p. 704.
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- Calipers. W. H. Harris. No. 1,388,705; Aug. 23; v. 289; p. 723.
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- Calipers, Combination-. E. Wulz. No. 1,380,624; June 7; v. 287; p. 57.
- Calipers, dividers, or the like. J. A. Bengtsson. No. 1,367,765; Feb. 8; v. 283; p. 232.
- Calipers, dividers, or the like. G. Hallgren. No. 1,367,776; Feb. 8; v. 283; p. 234.
- Calipers, Graduating. G. H. Fox. No. 1,385,910; July 26; v. 288; p. 753.
- Calipers, Indicating-. T. E. Grove. No. 1,365,779; Jan. 18; v. 282; p. 418.
- Calk-fastener. D. Ballenger. No. 1,393,934; Oct. 18.
- Calk-lock. E. C. Sadler. No. 1,390,165; Sept. 6; v. 290; p. 122.
- Calking-machine. H. Bremner. No. 1,400,138; Dec. 13.
- Call-distributing system. S. B. Williams, Jr. No. 1,386,749; Aug. 9; v. 289; p. 227.
- Call distributing system. S. B. Williams, Jr. No. 1,393,727; Oct. 11.
- Call-metering system. F. M. Slough. No. 1,387,668; Aug. 16; v. 289; p. 462.
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- Calling device. C. L. Goodrum. No. 1,369,022; Feb. 22; v. 283; p. 562.
- Calling device. A. T. Palmer. No. 1,388,368; Aug. 23; v. 289; p. 658.
- Calling device. E. R. Smith. No. 1,370,059; Mar. 1; v. 284; p. 67.
- Calling devices, Governor for. W. Kaissling. No. 1,371,248; Mar. 15; v. 284; p. 392.
- Callus and corn remover. G. Giefers. No. 1,382,972; June 28; v. 287; p. 668.
- Calorimeter. W. G. Laird. No. 1,381,714; June 14; v. 287; p. 316.
- Cam-shaft and making the same. I. Yassenoff. No. 1,390,949; Sept. 13; v. 290; p. 372.
- Cam-shaft-bushing inserter and extractor. R. A. Hall. No. 1,369,172; Feb. 22; v. 283; p. 591.
- Cam-shaft remover. J. McLachlan. No. 1,395,587; Nov. 1.
- Cam-shafts, Hardening or tempering. J. F. Wandersee. No. 1,376,984; May 3; v. 286; p. 115.
- Cams, Device for testing inaccuracies in. S. Pichler. No. 1,390,540; Sept. 13; v. 290; p. 288.
- Camera. W. E. Bailey. No. 1,378,208; May 17; v. 286; p. 458.
- Camera. G. C. Beldler. No. 1,371,722; Mar. 15; v. 284; p. 485.
- Camera. C. Bornmann. No. 1,365,083; Jan. 11; v. 282; p. 243.
- Camera. T. Gallo. No. 1,398,072; Nov. 22.
- Camera. J. L. Johnson. No. 1,368,210; Feb. 8; v. 283; p. 317.
- Camera. G. King. No. 1,379,189; May 24; v. 286; p. 718.
- Camera. C. J. Kryzanowsky. No. 1,393,793; Oct. 18.
- Camera. A. E. Lipp. No. 1,388,870; Aug. 30; v. 289; p. 811.
- Camera. H. F. McMahon. No. 1,369,753; Feb. 22; v. 283; p. 705.
- Camera. H. H. McNaughton. No. 1,381,722; June 14; v. 287; p. 318.
- Camera. M. Ochoa. No. 1,377,916; May 10; v. 286; p. 351.
- Camera. W. O. Stout. No. 1,364,462; Jan. 4; v. 282; p. 81.
- Camera. A. H. Rolkjer. No. 1,393,829; Oct. 18.
- Camera. S. C. Swann. No. 1,394,047; Oct. 18.
- Camera. J. J. Wolf, Jr. No. 1,374,794; Apr. 12; v. 285; p. 315.



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- Camera and projector, Combined moving-picture. F. Mladinich and A. R. de Tartas. No. 1,369,694; Feb. 22; v. 283; p. 693.
- Camera and projector, Moving-picture. D. Taifirnopoulos. No. 1,368,860; Feb. 15; v. 283; p. 492.
- Camera attachment. W. L. Davis and H. Ensminger. No. 1,379,086; May 24; v. 286; p. 698.
- Camera attachment. L. Mandel. No. 1,394,568; Oct. 25.
- Camera attachment. W. C. Mason. No. 1,382,437; June 21; v. 287; p. 512.
- Camera, Autographic. G. C. Beidler. No. 1,377,455; May 10; v. 286; p. 262.
- Camera, Autographic. J. P. Bethke. No. 1,375,815; Apr. 26; v. 285; p. 604.
- Camera, Autographic. J. P. Bethke. No. 1,375,816; Apr. 26; v. 285; p. 604.
- Camera, Autographic. D. M. Dey. No. 1,368,614; Feb. 15; v. 283; p. 444.
- Camera, Automatic. J. M. Resch. No. 1,371,440; Mar. 15; v. 284; p. 430.
- Camera, Aviator's. W. F. Folmer. No. 1,400,277; Dec. 13.
- Camera-back. J. Tessier. No. 1,398,950; Nov. 29.
- Camera-case. G. L. Osgood. No. 1,374,949; Apr. 19; v. 285; p. 406.
- Camera, Copying and enlarging. B. A. Brigden. No. 1,400,412; Dec. 13.
- Camera-film developing tank and tester. J. J. Rose. No. 1,364,320; Jan. 4; v. 282; p. 53.
- Camera, Folding. R. Kroedel. No. 1,376,946; May 3; v. 286; p. 108.
- Camera, Folding. R. Kroedel. No. 1,380,810; June 7; v. 287; p. 93.
- Camera for taking up part-negatives for naturally-colored pictures, Photographic. S. de Procoudine-Gorsky. No. 1,375,175; Apr. 19; v. 285; p. 451.
- Camera matting-frame. E. G. Schlegel. No. 1,368,761; Feb. 15; v. 283; p. 472.
- Camera, Motion-picture. A. R. de Tartas and F. Mladinich. No. 1,377,322; May 10; v. 286; p. 237.
- Camera, Motion-picture. W. B. Wescott. No. 1,383,357; July 5; v. 288; p. 20.
- Camera, Moving-picture. E. W. Davis. No. 1,372,675; Mar. 29; v. 284; p. 765.
- Camera, Moving-picture. G. Ramsey. No. 1,388,892; Aug. 30; v. 289; p. 815.
- Camera, Moving-picture. A. D. Ray. No. 1,369,127; Feb. 22; v. 283; p. 583.
- Camera, Multiple-view. J. W. Anderson. No. 1,369,515; Feb. 22; v. 283; p. 657.
- Camera, Multiple-view. P. B. Venuti and C. H. Arnold. No. 1,393,411; Oct. 11.
- Camera, Multiplying-. E. Huntzinger. No. 1,365,999; Jan. 18; v. 282; p. 461.
- Camera, Photographic. R. L. Colter. No. 1,366,876; Jan. 25; v. 282; p. 678.
- Camera, Photographic. P. Dietz. No. 1,372,803; Mar. 29; v. 284; p. 791.
- Camera, Photographic. J. S. Greene. No. 1,386,703; Aug. 9; v. 289; p. 218.
- Camera, Photographic. A. H. Long. No. 1,397,132; Nov. 15.
- Camera, Photographic. W. A. Peters. No. 1,374,678; Apr. 12; v. 285; p. 293.
- Camera, Photographic. W. A. Peters. No. 1,395,293; Nov. 1.
- Camera, Photographic. M. P. Sarfaty. No. 1,389,992; Sept. 6; v. 290; p. 87.
- Camera, Process or copying. A. Fruwirth. No. 1,401,902; Dec. 27.
- Camera-shutter. J. Swinscoe. No. 1,393,983; Oct. 18.
- Camera-shutter control. B. F. Schmidt. No. 1,385,476; July 26; v. 288; p. 665.
- Camera-shutter release. A. S. Warne. No. 1,395,214; Oct. 25.
- Camera-shutter trip, Automatic. C. L. E. Svendsen and C. A. Johnson. No. 1,377,528; May 10; v. 286; p. 275.
- Camera-support, Portable. S. R. Gray. No. 1,392,144; Sept. 27; v. 290; p. 749.
- Cameras, Adjustable curtain for. J. E. Leonard. No. 1,390,246; Sept. 6; v. 290; p. 137.
- Cameras, Adjustable iris and curtain for. J. E. Leonard. No. 1,396,717; Nov. 8.
- Cameras, Adjustable iris for. J. E. Leonard. No. 1,392,876; Oct. 4.
- Cameras and projectors, Camera box or cabinet for combined moving-picture. F. Mladinich. No. 1,397,817; Nov. 22.
- Cameras, Automatic focusing device for. J. A. De Bouzek. No. 1,387,457; Aug. 16; v. 289; p. 419.
- Cameras, Back-lock for. A. H. Roikjer. No. 1,389,164; Aug. 30; v. 289; p. 870.
- Cameras, Dissolving shutter for. H. Enders. No. 1,388,938; Aug. 30; v. 289; p. 825.
- Cameras, Double-exposure and blank-film preventing device for. H. J. Fries. No. 1,400,872; Dec. 20.
- Cameras, Exposure-meter and finder for. P. W. Stoner. No. 1,387,811; Aug. 16; v. 289; p. 491.
- Cameras, Film-shift lock for. P. F. Valerio. No. 1,400,641; Dec. 20.
- Cameras, Film-shifting device for. L. W. Rosen and P. Brauner. No. 1,386,733; Aug. 9; v. 289; p. 224.
- Cameras, Film-moving mechanism for motion-picture. J. E. Leonard. No. 1,390,247; Sept. 6; v. 290; p. 137.
- Cameras, Film-winding means for. H. H. Berry. No. 1,394,401; Oct. 18.
- Cameras, Loader-magazine frame for photographic. C. Rothmeyer. No. 1,395,360; Nov. 1.
- Cameras, Photographic. A. G. Pickard and F. Slinger. No. 1,395,869; Nov. 1.
- Cameras, Plate-magazine for. A. A. Rutten and C. E. Hutchings. No. 1,399,884; Dec. 13.
- Cameras, Reel-actuating device for. S. C. Swann. No. 1,394,048; Oct. 18.
- Cameras, Register for. S. L. Hagan. No. 1,389,827; Sept. 6; v. 290; p. 54.
- Cameras, Shield or protector for photographic. E. J. Sark. No. 1,397,661; Nov. 22.
- Cameras, Shutter mechanism for. F. G. Brockett. No. 1,378,936; May 24; v. 286; p. 671.
- Cameras, Tripod for. R. W. Pittman. No. 1,386,025; Aug. 2; v. 289; p. 13.
- Cameras, Turntable-support for. E. W. Davis. No. 1,378,999; May 24; v. 286; p. 682.
- Cameras, View-finder for photographic. J. Goddard. No. 1,392,759; Oct. 4.
- Cameras, Vignetting attachment for multiple-exposure. S. E. Moine. No. 1,373,626; Apr. 5; v. 285; p. 48.
- Camisole and making same. L. Platt. No. 1,382,742; June 28; v. 287; p. 624.
- Camp kit. W. J. Burns. No. 1,377,391; May 10; v. 286; p. 250.
- Camp table and box. W. J. Burke. No. 1,378,441; May 17; v. 286; p. 503.
- Camp-table, Folding. F. J. Lozon. No. 1,373,665; Apr. 5; v. 285; p. 55.
- Camphor series and making same, Quaternary base of the. H. Rupe. No. 1,399,082; Dec. 6.
- Camphor, Purification of crude synthetic. J. M. Kessler. No. 1,401,709; Dec. 27.
- Can: See—
- |                        |                         |
|------------------------|-------------------------|
| Cell-can.              | Oil-can.                |
| Collapsible can.       | Paper can.              |
| Cream-can.             | Safety oil-can.         |
| Dispensing-can.        | Sanitary can.           |
| Freezing-can.          | Sheet-metal can.        |
| Garbage-can.           | Squirt-can.             |
| Ice-can.               | Talcum-powder can.      |
| Liquid-containing can. | Tobacco-can.            |
| Lubricating-can.       | Two-in-one garbage-can. |
| Measuring-can.         | Vacuum-can.             |
| Milk-can.              |                         |
- Can. P. E. Babin. No. 1,364,826; Jan. 4; v. 282; p. 150.
- Can. C. W. Graham. No. 1,382,501; June 21; v. 287; p. 524.
- Can. W. J. Mielziner. No. 1,372,892; Mar. 29; v. 284; p. 809.
- Can. G. T. Reichenbach. No. 1,374,389; Apr. 12; v. 285; p. 236.
- Can and cup holder, Oil-. A. Tikkinen. No. 1,377,160; May 3; v. 286; p. 148.
- Can-bodies and positioning ends thereupon, Apparatus for truing. A. Johnson. No. 1,393,134; Oct. 11.
- Can-bodies, Apparatus for seaming ends to. A. Johnson. No. 1,372,953; Mar. 29; v. 284; p. 821.
- Can-bodies, Machine for forming. C. F. Hake, Jr., and A. Mill, Sr. No. 1,389,349; Aug. 30; v. 289; p. 907.
- Can brake, Railway-. S. R. Horst and P. T. Lindsey. No. 1,367,779; Feb. 8; v. 283; p. 235.
- Can-capping machine. J. F. Mrazek. No. 1,366,742; Jan. 25; v. 282; p. 651.
- Can-capping or disk-feeding machine. C. H. Birch. No. 1,387,461; Aug. 16; v. 289; p. 420.
- Can-caps, Safety-shield for. V. Odquist. No. 1,385,578; July 26; v. 288; p. 686.
- Can-charging apparatus. B. E. Taylor. No. 1,373,275; Mar. 29; v. 284; p. 885.
- Can-charging apparatus. B. E. Taylor. No. 1,393,406; Oct. 11.
- Can closing and marking machine. P. W. Fleischer. No. 1,366,564; Jan. 25; v. 282; p. 616.
- Can-closing machine. C. E. Ennes. No. 1,369,920; Mar. 1; v. 284; p. 31.
- Can-closing machine. P. W. Fleischer. No. 1,370,804; Mar. 8; v. 284; p. 245.
- Can-closing machine. L. C. Sharp. No. 1,389,704; Sept. 6; v. 290; p. 29.
- Can-closure. M. J. Welling. No. 1,385,290; July 19; v. 288; p. 551.
- Can-cover lifter. E. B. Birkenbeuel. No. 1,383,265; June 28; v. 287; p. 723.
- Can-cover-lining machine. J. Brenzinger. No. 1,390,491; Sept. 13; v. 290; p. 278.
- Can cover, Milk-. J. F. Hamilton. No. 1,374,732; Apr. 12; v. 285; p. 303.
- Can-covers, Drier for. F. C. Hirsch. No. 1,396,431; Nov. 8.
- Can-covers, Machine for fastening. S. A. Bennett. No. 1,385,422; July 26; v. 653.
- Can-cutter. E. B. Tracy. No. 1,389,019; Aug. 30; v. 289; p. 842.
- Can-double-seaming machine. H. H. Hood. No. 1,396,433; Nov. 8.
- Can-drainer. A. R. Thompson. No. 1,397,153; Nov. 15.
- Can emptying and flattening machine. F. J. Courtney. No. 1,376,798; May 3; v. 286; p. 79.



- Can end and preparing same, Sanitary. J. E. Schenck. No. 1,373,025; Mar. 29; v. 284; p. 835.
- Can-end chuck. A. E. Englund. No. 1,367,953; Feb. 8; v. 283; p. 267.
- Can-end-feeding device. C. E. Bratt and G. Fluck. No. 1,387,098; Aug. 9; v. 289; p. 298.
- Can-end-lining machine. C. W. Graham. No. 1,389,752; Sept. 6; v. 290; p. 38.
- Can-end seal. A. A. Englund. No. 1,370,802; Mar. 8; v. 284; p. 245.
- Can ends and applying ring-liners thereto, Organized apparatus for grooving. I. D. Thornburgh. No. 1,400,580; Dec. 20.
- Can ends and positioning the same upon can-bodies, Apparatus for marking. A. Johnson. No. 1,371,685; Mar. 15; v. 284; p. 478.
- Can ends, Apparatus for lining. I. D. Thornburgh. No. 1,370,857; Mar. 8; v. 284; p. 254.
- Can ends, Forming and applying ring-liners to. A. L. Kronquest. No. 1,372,961; Mar. 29; v. 284; p. 823.
- Can ends, Machine for forming and applying ring-liners to. A. L. Kronquest. No. 1,372,962; Mar. 29; v. 284; p. 823.
- Can ends, Preparing sanitary. F. Eberhart. No. 1,373,060; Mar. 29; v. 284; p. 841.
- Can-ends to can-bodies, Hermetically attaching. D. P. Robinson. No. 1,389,900; Sept. 6; v. 290; p. 69.
- Can ends to can-bodies, Organized apparatus for applying and sealing lined. I. D. Thornburgh. No. 1,368,977; Feb. 15; v. 283; p. 513.
- Can-extractor. A. R. Thompson. No. 1,397,990; Nov. 22.
- Can-fastening. J. D. Ellis. No. 1,383,707; July 5; v. 288; p. 92.
- Can-feed chute, Safety. A. R. Thompson. No. 1,394,799; Oct. 25.
- Can feeding and righting machine. C. F. Colbert. No. 1,393,947; Oct. 18.
- Can-feeding machines, Can and can-cover feeding device for. J. Brenzinger. No. 1,367,455; Feb. 1; v. 283; p. 114.
- Can-feeding mechanism. P. W. Fleischer. No. 1,375,371; Apr. 19; v. 285; p. 488.
- Can feeding, re-forming, and end-applying machine. J. A. Gray. No. 1,370,807; Mar. 8; v. 284; p. 246.
- Can-filling machine. F. G. Dickerson. No. 1,365,773; Jan. 18; v. 282; p. 417.
- Can-filling machine. W. T. Guild. No. 1,383,105; June 28; v. 287; p. 693.
- Can-filling machine. M. Hofheimer. No. 1,367,259; Feb. 1; v. 283; p. 75.
- Can-flanging machine. S. E. Allerton. No. 1,365,073; Jan. 11; v. 282; p. 241.
- Can-handling mechanism. S. Eberly. No. 1,373,605; Apr. 5; v. 285; p. 44.
- Can heading and flanging machine. L. C. Sharp. No. 1,389,703; Sept. 6; v. 290; p. 28.
- Can heading and sealing machine. N. Troyer. No. 1,400,391; Dec. 13.
- Can-heading machine. J. Brenzinger. No. 1,369,005; Feb. 22; v. 283; p. 559.
- Can-heading machine. J. Brenzinger. No. 1,390,490; Sept. 13; v. 290; p. 278.
- Can-heading machine. J. Brenzinger. No. 1,400,796; Dec. 20.
- Can-holder. R. McGregor. No. 1,387,422; Aug. 9; v. 289; p. 362.
- Can-jacket. W. A. West. No. 1,375,480; Apr. 19; v. 285; p. 509.
- Can-labeling machine. G. A. Robinson. No. 1,385,714; July 26; v. 288; p. 714.
- Can marking and assembling machine. C. W. and L. J. Santee. No. 1,364,815; Jan. 4; v. 282; p. 148.
- Can-opener. O. W. Berggren. No. 1,400,406; Dec. 13.
- Can-opener. W. A. Boyd and R. H. Burns. No. 1,370,943; Mar. 8; v. 284; p. 270.
- Can-opener. J. M. Butcher. No. 1,396,991; Nov. 15.
- Can-opener. H. Coensgen. No. 1,396,254; Nov. 8.
- Can-opener. A. W. Guild. No. 1,365,486; Jan. 11; v. 282; p. 322.
- Can-opener. A. Herchen. No. 1,387,396; Aug. 9; v. 289; p. 357.
- Can-opener. J. W. Howard. No. 1,365,405; Jan. 11; v. 282; p. 306.
- Can-opener. E. E. Kepner. No. 1,397,217; Nov. 15.
- Can-opener. D. K. Kirkland. No. 1,367,484; Feb. 1; v. 283; p. 120.
- Can-opener. G. D. Munsing. No. 1,397,537; Nov. 22.
- Can-opener. R. D. Nileon. No. 1,372,899; Mar. 29; v. 284; p. 810.
- Can-opener. G. N. Nutwell. No. 1,393,639; Oct. 11.
- Can-opener. P. B. Searcy. No. 1,377,286; May 10; v. 286; p. 229.
- Can-opener. J. R. Spencer. No. 1,384,642; July 12; v. 288; p. 337.
- Can-opener. H. Thil. No. 1,392,466; Oct. 4.
- Can-opener. W. Vogel. No. 1,381,037; June 7; v. 287; p. 137.
- Can-opener. R. H. Waller. No. 1,393,412; Oct. 11.
- Can-opener. O. L. Walling. No. 1,379,666; May 31; v. 286; p. 883.
- Can-opener. G. R. Wilson. No. 1,371,657; Mar. 15; v. 284; p. 473.
- Can-opener. R. H. Wolfe. No. 1,374,702; Apr. 12; v. 285; p. 297.
- Can opener and sanitary sealer, Combined. C. A. Lowe. No. 1,374,019; Apr. 5; v. 285; p. 125.
- Can-opener, Convertible. W. H. Roach. No. 1,374,032; Apr. 5; v. 285; p. 127.
- Can opening and protecting device. M. M. Cody. No. 1,383,600; July 5; v. 288; p. 71.
- Can-punch. J. G. Hand. No. 1,396,629; Nov. 8.
- Can puncturing and pouring attachment. W. Anderson and E. R. Hartman. No. 1,366,858; Jan. 25; v. 282; p. 676.
- Can puncturing and sealing device. J. A. Scott. No. 1,370,921; Mar. 8; v. 284; p. 266.
- Can-rack. A. A. Kramer. No. 1,373,435; Apr. 5; v. 285; p. 11.
- Can-rack. L. L. Prater. No. 1,387,309; Aug. 9; v. 289; p. 339.
- Can-sealer, Friction-top. F. Crawford. No. 1,392,867; Oct. 4.
- Can-sealing machine, Vacuum. L. O. Schopp. No. 1,371,578; Mar. 15; v. 284; p. 458.
- Can-sealing machine, Vacuum. L. O. Schopp. No. 1,399,805; Dec. 13.
- Can-seaming mandrel or horn. W. J. Phelps. No. 1,370,556; Mar. 8; v. 284; p. 197.
- Can-server. T. Rupp. No. 1,364,889; Jan. 11; v. 282; p. 206.
- Can-server, Hygienic. H. Burkert. No. 1,366,714; Jan. 25; v. 282; p. 648.
- Can-soldering machine. A. Alvarez. No. 1,396,011; Nov. 8.
- Can-stopper. W. Kilmer. No. 1,368,561; Feb. 15; v. 283; p. 433.
- Can-straightening machine. F. E. Medcoff. No. 1,386,942; Aug. 9; v. 289; p. 266.
- Can-testing machine. W. E. Burns. No. 1,378,215; May 17; v. 286; p. 460.
- Can-tipping machine. F. G. Dickerson. No. 1,365,774; Jan. 18; v. 282; p. 417.
- Can-top lifter. A. C. Murray. No. 1,366,272; Jan. 18; v. 282; p. 515.
- Can-tops, Machine for cutting. C. Percy and W. Mills. No. 1,393,159; Oct. 11.
- Can up-feeding mechanism. F. Pilley. No. 1,366,933; Feb. 1; v. 283; p. 11.
- Can-washing machine. H. D. Lathrop. No. 1,378,245; May 17; v. 286; p. 466.
- Can-washing machine. W. H. Paulson. No. 1,391,141; Sept. 20; v. 290; p. 473.
- Cans and boxes, Opening device for sheet-metal. O. Larsen. No. 1,368,038; Feb. 8; v. 283; p. 283.
- Cans and other containers, Apparatus for and method of sterilizing milk. A. L. Dunham. No. 1,398,503; Nov. 29.
- Cans and other devices, Corrugating-machine for. W. J. Boyle, Sr., and F. R. Dallmann. No. 1,365,887; Jan. 18; v. 282; p. 440.
- Cans, Attachment for closed. B. W. Megquier. No. 1,374,752; Apr. 12; v. 285; p. 307.
- Cans, Conduit device for tapping. A. F. Cizek. No. 1,401,534; Dec. 27.
- Cans, Depth-filled-gaging machine for. J. Kellington. No. 1,399,214; Dec. 6.
- Cans, Drying. F. G. Foss. No. 1,375,373; Apr. 19; v. 285; p. 488.
- Cans, Dust-hood for ash-. J. A. Osburn. No. 1,372,539; Mar. 22; v. 284; p. 698.
- Cans, Machine for soldering the joints of sheet-metal. C. F. Hake, Jr. No. 1,377,339; May 10; v. 286; p. 240.
- Cans, Machine for testing sealed. R. O. Henszey. No. 1,372,690; Mar. 29; v. 284; p. 768.
- Cans, Method and means for assembling sister-top members for. G. Holthaus. No. 1,394,623; Oct. 25.
- Cans, pails, and the like, Machine for polishing. A. Nelson. No. 1,365,717; Jan. 18; v. 282; p. 406.
- Cans, Pouring attachment for. G. C. Sweeny. No. 1,387,211; Aug. 9; v. 289; p. 318.
- Cans, &c., that contain perishable foods, Composition for sealing. I. Hotson-Tait. No. 1,386,620; Aug. 9; v. 289; p. 201.
- Cans, Tool for capping. I. Newman. No. 1,370,039; Mar. 1; v. 284; p. 54.
- Cans, Tool for capping. I. Newman. No. 1,370,040; Mar. 1; v. 284; p. 54.
- Canned foods, Treating. O. H. Hansen. No. 1,391,953; Sept. 27; v. 290; p. 710.
- Canned fruits and vegetables, Sterilizing. W. B. Fenn. No. 1,365,673; Jan. 18; v. 282; p. 397.
- Canned goods, Sterilizing. W. B. Fenn. No. 1,378,531; May 17; v. 286; p. 521.
- Canning. A. X. Malmquist. No. 1,386,887; Aug. 9; v. 289; p. 255.
- Canning apparatus. E. W. R. Kugel. No. 1,390,142; Sept. 6; v. 290; p. 118.
- Canning fruits and vegetables, Jar and apparatus for cold-pack. J. F. Burns. No. 1,396,723; Nov. 15.
- Canning device. E. W. T. Mazars. No. 1,370,336; Mar. 1; v. 284; p. 110.
- Canning-machine. C. F. Capell. No. 1,366,116; Jan. 18; v. 282; p. 484.
- Canning-machine. P. Chamberlain. No. 1,384,599; July 12; v. 288; p. 328.



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- Canning-machine. J. C. Green. No. 1,387,977; Aug. 16; v. 289; p. 523.
- Canning machinery. F. O. Hutton. No. 1,393,288; Oct. 11.
- Canning-rack. B. Dickie. No. 1,379,000; May 24; v. 286; p. 682.
- Canceling device. J. W. Slack. No. 1,401,742; Dec. 27.
- Candies, Feeder for soft. E. B. Ault. No. 1,384,377; July 12; v. 288; p. 281.
- Candy and chocolate machine. S. S. Marvin and W. Munz. No. 1,385,462; July 26; v. 288; p. 662.
- Candy and other food products and making same. W. F. Speck. No. 1,371,450; Mar. 15; v. 284; p. 432.
- Candy and producing. L. A. Thompson. No. 1,391,918; Sept. 27; v. 290; p. 703.
- Candy-cutter. F. Locorotolo. No. 1,370,027; Mar. 1; v. 284; p. 51.
- Candy-lifter. G. H. Schmand. No. 1,385,893; July 26; v. 288; p. 749.
- Candy, Machine and method of making. W. B. Laskey. No. 1,393,144; Oct. 11.
- Candy, Machine for making. F. E. Zaiss. No. 1,400,128; Dec. 13.
- Candy, Machine for making spiral stick-. F. E. Zaiss. No. 1,400,127; Dec. 13.
- Candy-making. J. Starrels. No. 1,387,019; Aug. 9; v. 289; p. 282.
- Candy-making machine. C. M. and H. Becker. No. 1,369,772; Mar. 1; v. 284; p. 4.
- Candy, Manufacturing. W. P. Heath. No. 1,384,319; July 12; v. 288; p. 269.
- Candy-mold. P. Witty. No. 1,387,574; Aug. 16; v. 289; p. 443.
- Candy-preserving machine. C. Webke. No. 1,392,863; Oct. 4.
- Candy-sugaring machine. F. H. Baumgard. No. 1,391,604; Sept. 20; v. 290; p. 566.
- Candle ends, Machine for shaping. F. L. Nitsch. No. 1,380,582; June 7; v. 287; p. 48.
- Candle-holder. D. Benkovic. No. 1,369,000; Feb. 22; v. 283; p. 558.
- Candle-molding machine. J. Dillman. No. 1,390,257; Sept. 6; v. 290; p. 139.
- Candles, Holder for the burning of. H. A. T. Guest. No. 1,365,485; Jan. 11; v. 282; p. 321.
- Candles, night-lights, and such like articles, Apparatus for manufacturing and packing. E. Walls. No. 1,392,286; Sept. 27; v. 290; p. 778.
- Cane and stool, Convertible. U. Kolchinsky. No. 1,381,845; June 14; v. 287; p. 340.
- Cane, Collapsible. F. Kutwicz. No. 1,396,372; Nov. 8.
- Cane-cutting machine. G. G. Powell. No. 1,387,511; Aug. 16; v. 289; p. 431.
- Cane-mill. J. L. Stanaland. No. 1,373,680; Apr. 5; v. 285; p. 58.
- Cane mill, Sugar-. F. J. de Bruin. No. 1,372,006; Mar. 22; v. 284; p. 596.
- Cane or stick, Combination duplicate or single. J. T. Huddle. No. 1,375,912; Apr. 26; v. 285; p. 623.
- Cane-planting machine. H. M. Renny. No. 1,377,929; May 10; v. 286; p. 354.
- Canister. E. M. Ayer. No. 1,388,503; Aug. 23; v. 289; p. 685.
- Cannon, Toy. M. E. Johnson. No. 1,364,765; Jan. 4; v. 282; p. 138.
- Canoe. F. W. Zeidler and C. Halpern. No. 1,387,957; Aug. 16; v. 289; p. 519.
- Canoe attachment. J. L. King. No. 1,370,592; Mar. 8; v. 284; p. 204.
- Canoes and other boats, Canopy-support for. E. P. Schmidt. No. 1,396,063; Nov. 8.
- Canopy, Floral. E. M. Koehler. No. 1,390,566; Sept. 13; v. 290; p. 294.
- Cant-slip wrench. G. Sibbald. No. 1,386,136; Aug. 2; v. 289; p. 35.
- Cantaliver front spring. S. P. Pesznecker. No. 1,382,541; June 21; v. 287; p. 532.
- Cantaliver-springs, Attachment for. P. Pirwitz. No. 1,391,851; Sept. 27; v. 290; p. 690.
- Canteen. R. H. Pritchard. No. 1,371,436; Mar. 15; v. 284; p. 430.
- Canteen-holder. S. Frey. No. 1,382,969; June 28; v. 287; p. 667.
- Canvas check-dam. B. H. Patrick. No. 1,381,427; June 14; v. 287; p. 262.
- Canvas, Composition for preserving. C. J. Nethercott. No. 1,371,258; Mar. 15; v. 284; p. 394.
- Caoutchouc-like substances, Manufacturing. F. Graf de la Rosée. No. 1,399,473; Dec. 6.
- Caoutchouc substances, Vulcanizing or curing. C. W. Bedford. No. 1,371,664; Mar. 15; v. 284; p. 474.
- Caoutchouc, Vulcanizing. C. W. Bedford. No. 1,371,662; Mar. 15; v. 284; p. 474.
- Caoutchouc, Vulcanizing. C. W. Bedford. No. 1,371,663; Mar. 15; v. 284; p. 474.
- Cap. *See*—  
Dust-cap.
- Cap. J. Carlson. No. 1,380,703; June 7; v. 287; p. 72.
- Cap. J. P. Cook. No. 1,400,528; Dec. 20.
- Cap. W. A. Matyk. No. 1,386,890; Aug. 9; v. 289; p. 256.
- Cap. L. Wallace. No. 1,379,142; May 24; v. 286; p. 710.
- Cap. J. Yanow. No. 1,396,985; Nov. 15.
- Cap and socket, Combination. R. B. Benjamin. No. 1,376,068; Apr. 26; v. 285; p. 654.
- Cap, Catsup-bottle. C. Hammer. No. 1,376,761; May 3; v. 286; p. 72.
- Cap-closure. W. C. Foell. No. 1,391,538; Sept. 20; v. 290; p. 554.
- Cap, Detachable. A. G. Norton. No. 1,373,092; Mar. 29; v. 284; p. 848.
- Cap, Dust-. E. V. Myers. Nos. 1,399,310-11; Dec. 6.
- Cap, Dust-. H. L. Silver. No. 1,365,859; Jan. 18; v. 282; p. 434.
- Cap-exploder. A. F. Lent. No. 1,377,894; May 10; v. 286; p. 347.
- Cap-extractor and sanitary bottle-closure, Combined. G. A. Wyeth. No. 1,372,468; Mar. 22; v. 284; p. 684.
- Cap, hat, and bonnet. M. V. Brunk. No. 1,380,525; June 7; v. 287; p. 38.
- Cap, Protective. L. G. Wagner. No. 1,364,662; Jan. 4; v. 282; p. 119.
- Cap-remover. F. Metzler. No. 1,376,562; May 3; v. 286; p. 35.
- Cap-spinning frame. J. H. Jones. No. 1,385,078; July 19; v. 288; p. 508.
- Cap-spinning frame. J. H. Jones. No. 1,401,705; Dec. 27.
- Cap, Third-rail-bracket-clamp. H. Rice. No. 1,383,236; June 28; v. 287; p. 718.
- Cap-threading machine. A. L. Merolle. No. 1,392,844; Oct. 4.
- Caps, hats, or other headgear, Guard attachment for. G. B. Knight. No. 1,376,816; May 3; v. 286; p. 83.
- Caps, Loading detonating-. T. Wennerström. No. 1,390,849; Sept. 13; v. 290; p. 351.
- Caps, Making socket-. A. W. Limont. No. 1,368,565; Feb. 15; v. 283; p. 434.
- Caps, Manufacture of rubber bathing-. R. E. Riley. No. 1,388,762; Aug. 23; v. 289; p. 735.
- Caps, Water-excluding device for bathing-. I. W. Litchfield. No. 1,390,628; Sept. 13; v. 290; p. 308.
- Capping-machine. D. Fasson. No. 1,387,373; Aug. 9; v. 289; p. 352.
- Capping machine, Jar-. J. J. Bauer. No. 1,398,002; Nov. 22.
- Caponizing-rack. M. E. Lindemuth. No. 1,381,717; June 14; v. 87; p. 317.
- Capstan. B. E. Baldof. No. 1,386,677; Aug. 9; v. 289; p. 212.
- Capstan. J. Ditson. No. 1,368,248; Feb. 15; v. 283; p. 372.
- Capstan. S. P. Griffin. No. 1,372,019; Mar. 22; v. 284; p. 598.
- Capstan-screw. G. A. Moore. No. 1,396,455; Nov. 8.
- Capsule-filling device, Adjustable. E. S. Rittenbry. No. 1,371,264; Mar. 15; v. 284; p. 395.
- Car. G. M. Fite. No. 1,367,365; Feb. 1; v. 283; p. 96.
- Car. G. E. Thackray. No. 1,401,833; Dec. 27.
- Car and door-operating mechanism therefor, Dump-. A. Campbell. No. 1,383,288; July 5; v. 288; p. 6.
- Car and electric coupling and reversing-switch, Automatic. C. H. Tomlinson. No. 1,381,852; June 14; v. 287; p. 342.
- Car and like vehicle, Railway-. J. Westgate and C. E. H. Hawken. No. 1,384,500; July 12; v. 288; p. 306.
- Car and locomotive replacing frogs, Holder for. D. E. Keith. No. 1,395,583; Nov. 1.
- Car and train-pipe coupling. T. R. Brown. No. 1,386,235; Aug. 2; v. 289; p. 54.
- Car, Armored. H. F. Cuntz. No. 1,370,951; Mar. 8; v. 284; p. 273.
- Car-axle-driven dynamo. C. H. Quinn. No. 1,376,901; May 3; v. 286; p. 100.
- Car-axle dust-guard. J. D. Benbow. No. 1,389,289; Aug. 30; v. 289; p. 895.
- Car-axes, Forming tubular. D. A. Clark. No. 1,366,717; Jan. 25; v. 282; p. 647.
- Car-axes, Means for driving dynamos from. W. F. Bouché. No. 1,400,793; Dec. 20.
- Car-axes, Reclaiming worn. F. K. Murphy, A. W. Martin, and L. C. H. Weidman. No. 1,366,922; Feb. 1; v. 283; p. 8.
- Car, Bicycle side. G. G. Buckland. No. 1,384,300; July 12; v. 288; p. 265.
- Car bodies, Entrance device for automobile-. M. Watanabe. No. 1,386,976; Aug. 9; v. 287; p. 273.
- Car-body. F. M. Cowgill. No. 1,397,081; Nov. 15.
- Car, Box-. L. C. Ord. No. 1,400,094; Dec. 13.
- Car-bolster arrangement, Railway-. J. A. Lamont. No. 1,377,699; May 10; v. 286; p. 308.
- Car-brake. J. H. Duff. No. 1,384,454; July 12; v. 288; p. 297.
- Car-brake. F. C. Foster. No. 1,394,990; Oct. 25.
- Car-brake. G. L. Scott. No. 1,397,059; Nov. 15.
- Car-brake-controlling means. C. E. Rochambeau. No. 1,377,628; May 10; v. 286; p. 294.
- Car brake or stop. C. Liddicoat. No. 1,399,972; Dec. 13.
- Car brake, Railway-. E. J. McGorry. No. 1,387,729; Aug. 16; v. 289; p. 475.
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 Car-coupling. L. A. Murphy. No. 1,382,530; June 21; v. 287; p. 530.  
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 Car-door-operating mechanisms, Safety device for. J. F. O'Connor. No. 1,372,718; Mar. 29; v. 284; p. 773.  
 Car-door-operating mechanisms, Safety device for. J. F. O'Connor. No. 1,372,719; Mar. 29; v. 284; p. 773.  
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 Car-doors, Lock and seal for. H. H. Duncan and C. C. Willoughby. No. 1,398,094; Nov. 22.  
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 Car draft-rigging, Draft-yoke for railway-. S. B. Haseltine. No. 1,369,655; Feb. 22; v. 283; p. 685.  
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- Car, Dumping-. A. E. Ostrander. No. 1,370,761; Mar. 8; v. 284; p. 237.
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- Car, Drying-kiln. P. A. Meehan. No. 1,386,013; Aug. 2; v. 289; p. 10.
- Car-end construction. F. M. Whyte. No. 1,384,368; July 12; v. 288; p. 279.
- Car end, Corrugated sheet-metal. W. P. Murphy. Nos. 1,398,643-4; Nov. 29.
- Car end, Vertically-reinforced sheet-metal. W. P. Murphy. No. 1,398,645; Nov. 29.
- Car ends, Machine for and method of lining. C. W. Graham. No. 1,392,492; Oct. 4.
- Car enunciator, Street-. E. A. Kean and B. L. Nicholson. No. 1,378,465; May 17; v. 286; p. 507.
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- Car-fender. H. Davison. No. 1,375,446; Apr. 19; v. 285; p. 503.
- Car-fender. C. O. First. No. 1,383,196; June 28; v. 287; p. 710.
- Car-fender. W. B. Garrard. No. 1,389,943; Sept. 6; v. 290; p. 78.
- Car-fender. J. W. H. Griffin. No. 1,400,052; Dec. 13.
- Car-fender. L. D. Hamilton. No. 1,400,057; Dec. 13.
- Car fender, Motor-. M. A. Robinson. No. 1,378,423; May 17; v. 286; p. 499.
- Car for children, Adjustable. C. Bradway. No. 1,389,854; Sept. 6; v. 290; p. 59.
- Car for motorcycles, Side. L. Belluscio. No. 1,383,900; July 5; v. 288; p. 133.
- Car, Freight-. N. U. Carrié. No. 1,373,052; Mar. 29; v. 284; p. 840.
- Car, Freight-. E. Dimond. No. 1,385,206; July 19; v. 288; p. 534.
- Car, Freight-. H. M. Farrand. No. 1,374,292; Apr. 12; v. 285; p. 217.
- Car, Freight-. N. Fender. No. 1,377,122; May 3; v. 286; p. 142.
- Car, Freight-. A. I. Glinchikoff. No. 1,396,420; Nov. 8.
- Car, Furnace-charging. S. D. Wright. No. 1,364,343; Jan. 4; v. 282; p. 57.
- Car, General-service. D. Hindahl. No. 1,382,191; June 21; v. 287; p. 464.
- Car, Grain-. S. Dukes. No. 1,371,877; Mar. 15; v. 284; p. 514.
- Car-handling apparatus, Grain-. T. D. Budd. No. 1,378,089; May 17; v. 286; p. 436.
- Car-heater. L. P. Hynes. No. 1,392,686; Oct. 4.
- Car-heater, Electric. L. P. Hynes. No. 1,398,522; Nov. 29.
- Car-heating apparatus, Tank-. E. A. Schreiber. No. 1,381,669; June 14; v. 287; p. 307.
- Car-heating system. E. E. Gold. No. 1,369,276; Feb. 22; v. 283; p. 611.
- Car-heating system, Electric. L. P. Hynes. No. 1,398,521; Nov. 29.
- Car, Hopper-. W. P. Murphy. No. 1,377,783; May 10; v. 286; p. 325.
- Car, Hopper-. M. A. Villiamo. No. 1,392,371; Oct. 4.
- Car-hopper-releasing device. P. E. Reider. No. 1,381,661; June 14; v. 287; p. 305.
- Car, Hot-metal-dumping. C. P. Astrom. No. 1,365,078; Jan. 11; v. 282; p. 242.
- Car-jack. R. B. Britton. No. 1,372,271; Mar. 22; v. 284; p. 647.
- Car journal-box. T. J. Holmes. No. 1,367,740; Feb. 8; v. 283; p. 227.
- Car-journal lubricator. T. J. Holmes. No. 1,367,741; Feb. 8; v. 283; p. 227.
- Car latch, Dump-. W. J. Rundle. No. 1,383,861; July 5; v. 288; p. 125.
- Car latch, Dumping-. A. M. Farrier. No. 1,366,775; Jan. 25; v. 282; p. 658.
- Car-lighting generator-drive mechanism. G. G. Milne. No. 1,369,291; Feb. 22; v. 283; p. 613.
- Car-lighting generator-drive mechanism. G. G. Milne. No. 1,369,292; Feb. 22; v. 283; p. 614.
- Car-lighting system. H. D. Rohman. No. 1,369,128; Feb. 22; v. 283; p. 583.
- Car-lighting system. L. A. Watson. No. 1,401,451; Dec. 27.
- Car loader, Box-. H. D. Pratt. No. 1,381,009; June 7; v. 287; p. 132.
- Car-loading system. G. P. Marinier and E. E. Chrysler. No. 1,394,038; Oct. 18.
- Car, Logging-. H. O. Williams and W. J. Miller. No. 1,387,822; Aug. 16; v. 289; p. 494.
- Car, Motor-. J. Gangloff. No. 1,385,611; July 26; v. 288; p. 693.
- Car, Motor-. A. Landini. No. 1,401,797; Dec. 27.
- Car-motor mounting. H. J. Murray and W. S. Rugg. No. 1,386,586; Aug. 2; v. 289; p. 121.
- Car-mover. G. L. Bonham. No. 1,391,715; Sept. 27; v. 290; p. 662.
- Car-mover. F. A. Kell. No. 1,401,411; Dec. 27.
- Car-moving device. H. B. Weiss. No. 1,371,457; Mar. 15; v. 284; p. 434.
- Car of the drop-end-gate type, Gondola. C. W. Court. No. 1,366,362; Jan. 25; v. 282; p. 575.
- Car of the gondola type, Railway-. S. H. Conwell and C. W. Court. No. 1,384,183; July 12; v. 288; p. 241.
- Car, Ore-. A. Campbell. No. 1,399,746; Dec. 13.
- Car, Ore-. A. Campbell. No. 1,400,866; Dec. 20.
- Car, Ore-. A. Roy. No. 1,392,801; Oct. 4.
- Car partition, Stock-. R. Miller. No. 1,386,419; Aug. 2; v. 289; p. 90.
- Car-platforms, Foot-warmer for. L. Loeser. No. 1,398,384; Nov. 29.
- Car-rail hose-bridge. C. P. Tyler. No. 1,398,497; Nov. 29.
- Car, Railway-. T. Elliott. No. 1,386,851; Aug. 9; v. 289; p. 248.
- Car, Railway-. T. Elliott. No. 1,386,852; Aug. 9; v. 289; p. 248.
- Car, Railway-. T. Elliott. No. 1,399,755; Dec. 13.
- Car, Railway-. F. A. McRea. No. 1,398,386; Nov. 29.
- Car, Railway-. H. W. Sanford, C. A. Griffith, and G. E. Jones, Jr. No. 1,388,486; Aug. 23; v. 289; p. 682.
- Car, Railway-. J. B. Strauss. No. 1,390,396; Sept. 13; v. 290; p. 259.
- Car, Railway-. W. W. Sylvester. No. 1,389,396; Aug. 30; v. 289; p. 916.
- Car-railway. F. W. Wolff. No. 1,393,333; Oct. 11.
- Car, Railway motor-. R. E. Bressler. No. 1,388,236; Aug. 23; v. 289; p. 631.
- Car, Railway motor-. J. F. Kehrman. No. 1,401,607; Dec. 27.
- Car, Railway motor-. W. C. Lipe and L. H. Kirk. No. 1,393,146; Oct. 11.
- Car-record book, Industrial. J. R. Buchanan. No. 1,378,654; May 17; v. 286; p. 544.
- Car, Refrigerator-. W. J. Bohan. No. 1,376,794; May 3; v. 286; p. 78.
- Car, Refrigerator-. E. Posson. No. 1,399,079; Dec. 6.
- Car-reinforcement and door-hinge. L. G. Miller. No. 1,377,716; May 10; v. 286; p. 311.
- Car-replacer. T. H. Bellows. No. 1,364,913; Jan. 11; v. 282; p. 211.
- Car-replacer. T. H. Bellows. No. 1,391,819; Sept. 27; v. 290; p. 683.
- Car-replacer. P. Gallagher. No. 1,364,744; Jan. 4; v. 282; p. 134.
- Car-replacer. W. H. McGinley. No. 1,378,180; May 17; v. 286; p. 453.
- Car-replacer. F. D. McGinley. No. 1,382,105; June 21; v. 287; p. 449.
- Car-replacer. J. A. Moynihan. No. 1,385,571; July 26; v. 288; p. 685.
- Car-replacer, Automatic. J. W. Bodie. No. 1,392,392; Oct. 4.
- Car-replacing apparatus. A. Racine. No. 1,378,132; May 17; v. 286; p. 445.
- Car-roof. D. W. Hawsworth. No. 1,385,616; July 26; v. 288; p. 694.
- Car-roof. D. W. Hawsworth. No. 1,385,617; July 26; v. 288; p. 694.
- Car-roof. T. N. Russell. No. 1,378,057; May 17; v. 286; p. 430.
- Car-roof. F. M. Whyte. No. 1,370,571; Mar. 8; v. 284; p. 200.
- Car-roof guard-rail. J. A. Martin. No. 1,364,843; Jan. 4; v. 282; p. 153.
- Car-roof structure, Railway-. V. E. Sisson. No. 1,376,469; May 3; v. 286; p. 17.
- Car route register and indicator, Railway-. T. Fisher. No. 1,369,232; Feb. 22; v. 283; p. 603.
- Car, Scale and transfer. H. C. Hettelsater and E. K. Scott. No. 1,393,017; Oct. 11.
- Car, Scooter-. J. Dittrick, Sr. No. 1,389,633; Sept. 6; v. 290; p. 15.
- Car-seal. O. Johnson. No. 1,368,804; Feb. 15; v. 283; p. 480.
- Car-seal. H. L. Martin and W. C. Willis. No. 1,393,033; Oct. 11.
- Car-seal. F. Strahm. No. 1,375,025; Apr. 19; v. 285; p. 422.
- Car-seat. J. A. Brooks. No. 1,371,848; Mar. 15; v. 284; p. 509.
- Car-seat. G. W. Dryer. No. 1,389,130; Aug. 30; v. 289; p. 863.
- Car-seat. G. E. Henry. No. 1,364,756; Jan. 4; v. 282; p. 137.
- Car-seat. C. H. Reider. No. 1,369,543; Feb. 22; v. 283; p. 663.
- Car-seat. B. Schechter. No. 1,385,279; July 19; v. 288; p. 548.
- Car-seats, Indicator means for. N. J. Ryan. No. 1,371,816; Mar. 15; v. 284; p. 503.
- Car, Self-propelled motor-. A. F. Batchelder. No. 1,375,995; Apr. 26; v. 285; p. 639.
- Car, Side-dump. A. M. Gow. No. 1,387,485; Aug. 16; v. 289; p. 425.
- Car-sign exhibitor. H. A. Mayberry. No. 1,380,001; May 31; v. 286; p. 945.
- Car-signal. S. Wideman. No. 1,387,671; Aug. 16; v. 289; p. 463.
- Car signal, Street-. J. C. Hopkins. No. 1,378,790; May 17; v. 286; p. 570.
- Car-stake. J. Venne. No. 1,373,277; Mar. 29; v. 284; p. 885.
- Car-step. J. R. Mitchell. No. 1,395,589; Nov. 1.
- Car-step, Auxiliary. H. L. Clapp. No. 1,373,995; Apr. 5; v. 285; p. 121.



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- Car-step, Auxiliary. W. C. McFeely. No. 1,393,893; Oct. 18.
- Car-step, Auxiliary. P. Swanson and A. Carlson. No. 1,400,577; Dec. 20.
- Car-step, Extensible. J. Toutges. No. 1,388,493; Aug. 23; v. 289; p. 683.
- Car-step, Folding. T. Branch. No. 1,364,697; Jan. 4; v. 282; p. 125.
- Car-stop, Folding. T. Davis. No. 1,392,821; Oct. 4.
- Car-stop. J. U. Duffy. No. 1,379,398; May 24; v. 286; p. 758.
- Car-stop. G. N. Simpson and R. W. Williams. No. 1,378,568; May 17; v. 286; p. 527.
- Car-stop shoe. J. U. Duffy. No. 1,385,528; July 26; v. 288; p. 675.
- Car-stove. W. H. Gardiner. No. 1,388,330; Aug. 23; v. 289; p. 651.
- Car. Supporting apparatus for the rear-wheel shaft of a motor. S. Tamura and M. Watanabe. No. 1,388,389; Aug. 23; v. 289; p. 663.
- Car tag-holder, Mine. K. F. Begley. No. 1,379,514; May 24; v. 286; p. 780.
- Car. Tank. H. P. Andresen. No. 1,391,663; Sept. 27; v. 290; p. 662.
- Car. Tank. H. W. Jacobs and E. D. Levy. No. 1,369,111; Feb. 22; v. 283; p. 580.
- Car. Tank. R. R. Weaver. No. 1,394,956; Oct. 25.
- Car tanks, Brine-retaining value for refrigerator. G. F. Laughlin. No. 1,364,506; Jan. 4; v. 282; p. 89.
- Car-truck. J. F. Holloway. No. 1,399,709; Dec. 6.
- Car-truck. G. K. Thompson. No. 1,392,721; Oct. 4.
- Car-truck. C. T. Westlake. No. 1,385,737; July 26; v. 288; p. 718.
- Car-truck. J. C. Whitridge. No. 1,374,620; Apr. 12; v. 285; p. 281.
- Car truck, Railway. T. Elliott. No. 1,386,853; Aug. 9; v. 289; p. 248.
- Car-trucks, Equalizer for. P. Parke. No. 1,400,693; Dec. 20.
- Car-uncoupler. L. Cornell. No. 1,367,020; Feb. 1; v. 283; p. 27.
- Car-underframe. D. S. Barrows. No. 1,378,645; May 17; v. 286; p. 542.
- Car-underframe. A. E. Ostrander. No. 1,370,762; Mar. 8; v. 284; p. 237.
- Car underframe, Railway. J. Allison. No. 1,368,680; Feb. 15; v. 283; p. 457.
- Car-underframe reinforcement. G. Q. Lewis. No. 1,372,706; Mar. 29; v. 284; p. 771.
- Car-unloader. H. Richardson. No. 1,364,808; Jan. 4; v. 282; p. 147.
- Car-unloader. E. R. Sutton. No. 1,390,591; Sept. 13; v. 290; p. 299.
- Car unloading or dumping apparatus. E. M. Hull. No. 1,399,484; Dec. 6.
- Car-ventilating system. P. B. Bogart. No. 1,395,383; Nov. 1.
- Car-ventilator. A. Steger. No. 1,389,788; Sept. 6; v. 290; p. 46.
- Car-wall construction, Railway. C. D. Bonsall. No. 1,374,421; Apr. 12; v. 285; p. 243.
- Car wall construction, Railway. C. D. Bonsall. No. 1,379,386; May 24; v. 286; p. 756.
- Car-wheel. A. L. Carroll. No. 1,367,799; Feb. 8; v. 283; p. 238.
- Car-wheel. A. L. Carroll. No. 1,367,800; Feb. 8; v. 283; p. 238.
- Car-wheel. E. G. Mitchell. No. 1,379,121; May 24; v. 286; p. 706.
- Car-wheel. L. P. Soete. No. 1,400,246; Dec. 13.
- Car-wheel and mounting the same. G. E. Pratt. No. 1,366,211; Jan. 18; v. 282; p. 502.
- Car-wheel fender. J. F. Thompson. No. 1,397,825; Nov. 22.
- Car wheel, Mining. A. B. Day. No. 1,364,616; Jan. 4; v. 282; p. 110.
- Car-wheel or similar body. L. F. Dieter. No. 1,377,617; May 10; v. 286; p. 292.
- Car-wheel or similar body. Dishd. L. F. Dieter. No. 1,377,618; May 10; v. 286; p. 292.
- Car-wheel, Roller-bearing. W. B. Bridges. No. 1,375,554; Apr. 19; v. 285; p. 523.
- Car wheels and axle, Railway. T. Littlefield. No. 1,386,124; Aug. 2; v. 289; p. 32.
- Car with adjustable work-support. Kiln. P. A. Meehan. No. 1,371,321; Mar. 15; v. 284; p. 406.
- Cars, Accelerating device for motor. F. J. Young. No. 1,375,436; Apr. 19; v. 285; p. 501.
- Cars, Adjustable partition for stock. J. R. Moriarty. No. 1,388,819; Aug. 23; v. 289; p. 746.
- Cars and engines of all kinds, Means for absorbing the reactions of the suspension in motor. No. 1,381,621; June 14; v. 287; p. 297.
- Cars and other motor and railway vehicles, Body for motor. E. W. Edwards. No. 1,396,737; Nov. 15.
- Cars and other receptacles, Dumping mechanism for. K. Malcher. No. 1,370,659; Mar. 8; v. 284; p. 217.
- Cars and other vehicles, Device for controlling from a distance the windows of motor. P. Seurin. No. 1,375,612; Apr. 19; v. 285; p. 534.
- Cars and other vehicles, Tire for motor. W. Heggie. No. 1,365,243; Jan. 11; v. 282; p. 275.
- Cars and similar vehicles, Journal-box for railway. A. Danielsson. No. 1,401,141; Dec. 27.
- Cars and the like, Hinge for closed bodies of motor. A. E. Cole. No. 1,377,058; May 3; v. 286; p. 129.
- Cars and their loads, Means for straightening. A. C. Hinckley. No. 1,386,175; Aug. 2; v. 289; p. 42.
- Cars, Approachway for platforms of. L. Dufek. No. 1,387,134; Aug. 9; v. 289; p. 304.
- Cars at loading-points, Means for controlling railway. F. L. Fleming. No. 1,386,560; Aug. 2; v. 289; p. 116.
- Cars, Automatic coupling for mine. G. T. Gregory and H. W. Burket. No. 1,392,145; Sept. 27; v. 290; p. 749.
- Cars, Automatic coupling for mine. C. G. Humphrey. No. 1,368,153; Feb. 8; v. 283; p. 305.
- Cars, automobiles and other vehicles, Automatic life and limb saving device for street. W. S. Gregory. No. 1,376,200; Apr. 26; v. 285; p. 678.
- Cars, Axle for Ford. J. D. Lewis. No. 1,380,985; June 7; v. 287; p. 127.
- Cars, Axle transmission for railway. E. G. Smith. No. 1,379,055; May 24; v. 286; p. 692.
- Cars, Back axle for motor. M. J. B. Barbarou. No. 1,391,294; Sept. 20; v. 290; p. 504.
- Cars, Band for Ford. J. Malligan and C. R. Lytle. No. 1,382,305; June 21; v. 287; p. 486.
- Cars, Bolt for loaded grain. C. R. Armstrong. No. 1,391,661; Sept. 27; v. 290; p. 651.
- Cars, Brace for axle-housings in automotive. J. J. Walley. No. 1,389,083; Aug. 30; v. 289; p. 854.
- Cars, Brake mechanism for railway. E. Posson. No. 1,364,641; Jan. 4; v. 282; p. 114.
- Cars, Brake mechanism for railway. J. Reif. No. 1,391,977; Sept. 27; v. 290; p. 715.
- Cars, Bumper for motor. R. S. Whitney. No. 1,375,244; Apr. 19; v. 285; p. 464.
- Cars, Carburetor for motor. A. Maire. No. 1,368,178; Feb. 8; v. 283; p. 310.
- Cars, Card-holder for freight. T. A. Draper. No. 1,370,635; Mar. 8; v. 284; p. 213.
- Cars carrying bituminous materials, Device for facilitating the unloading of tank. R. L. Fowler. No. 1,370,531; Mar. 8; v. 284; p. 192.
- Cars, Cast underframe for. C. A. Psilander. No. 1,367,429; Feb. 1; v. 283; p. 109.
- Cars, Column-casting for railway. E. Posson. No. 1,369,906; Mar. 1; v. 284; p. 29.
- Cars, Combined electric and pneumatic system for. H. A. Benedict. No. 1,373,400; Apr. 5; v. 285; p. 4.
- Cars, &c., Compressed-air mechanism for motor. M. Adenot. No. 1,398,355; Nov. 29.
- Cars, Conveyor device for loading flour into. H. O. Harding. No. 1,373,659; Apr. 5; v. 285; p. 54.
- Cars, Corrugated metal end for railway. C. T. Osterberg. No. 1,398,241; Nov. 29.
- Cars, Corrugated metal end for railway. W. F. Woolard. No. 1,398,249; Nov. 29.
- Cars, Crib attachment for motor. H. Taylor. No. 1,377,607; May 10; v. 286; p. 290.
- Cars, Cross-tie for railway. L. G. Miller and E. C. Long. No. 1,394,425; Oct. 18.
- Cars, Crosstie or stiffener for steel. H. T. Anderson. No. 1,365,216; Jan. 11; v. 282; p. 269.
- Cars, Danger-signal for railway. D. H. McGogy. No. 1,374,936; Apr. 19; v. 285; p. 404.
- Cars, Device for loading gasoline in tank. T. N. Rutherford and E. H. Rudolph. No. 1,385,843; July 26; v. 288; p. 739.
- Cars, Direction-indicator for motor. H. H. Gray. No. 1,379,863; May 31; v. 286; p. 919.
- Cars, Dome-cover for oil. W. K. Bonham. No. 1,398,832; Nov. 29.
- Cars, Door-fastener for railway. E. Posson. No. 1,397,934; Nov. 22.
- Cars, Door for box. G. L. McCallum. No. 1,373,516; Apr. 5; v. 285; p. 27.
- Cars, Door-operating device for hopper. S. G. Stevens. No. 1,374,248; Apr. 12; v. 285; p. 209.
- Cars, Draft appliance for railway. H. C. Buhoup. No. 1,400,210; Dec. 13.
- Cars, Draft-arm construction for. E. Posson. No. 1,399,077; Dec. 6.
- Cars, Draft-rigging for railway. J. F. O'Connor. No. 1,369,536; Feb. 22; v. 283; p. 661.
- Cars, End reinforcement for box. G. S. Goodwin. No. 1,384,831; July 19; v. 288; p. 457.
- Cars, End reinforcement for railway box. R. W. Burnett. No. 1,397,674; Nov. 22.
- Cars, Fluid-pipe coupling for railway. A. E. Nescher. No. 1,387,508; Aug. 16; v. 289; p. 430.
- Cars, Foldable seat for prepayment. J. S. McWhirter. No. 1,395,757; Nov. 1.
- Cars, Foot-accelerator for Ford. R. S. Martin. No. 1,366,406; Jan. 25; v. 282; p. 584.
- Cars, Foot-lever construction for motor. M. J. B. Barbarou. No. 1,385,331; July 19; v. 288; p. 558.
- Cars, Friction draft-gear for railway. J. F. O'Connor. No. 1,398,704; Nov. 29.
- Cars from overturning, Safety device for preventing motor. C. Daniel and E. A. Juhnke. No. 1,373,655; Apr. 5; v. 285; p. 53.
- Cars, Fuel-valve lock for motor. R. O. McQueen and J. A. Batson. No. 1,371,975; Mar. 15; v. 284; p. 533.
- Cars, Grain-door for box. W. Gelineau. No. 1,397,279; Nov. 15.
- Cars, Hand-brake for railway. W. A. Geiger. No. 1,378,852; May 24; v. 286; p. 655.



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- Cars, Hand-brake for railway-. G. A. Woodman. No. 1,394,058; Oct. 18.
- Cars, Hand-brake for railway box-. J. F. O'Conner. No. 1,378,975; May 24; v. 286; p. 678.
- Cars, Jacking apparatus for motor-. G. Bowman. No. 1,368,688; Feb. 15; v. 283; p. 458.
- Cars, Lifting and swinging support for railway motor-. J. E. Loeffler. No. 1,383,832; July 5; v. 288; p. 119.
- Cars, Lifting and swinging support for railway motor-. J. E. Loeffler. No. 1,391,330; Sept. 20; v. 290; p. 511.
- Cars, Load-securing means for freight-. O. M. Leishman. No. 1,392,343; Oct. 4.
- Cars, Loading means for tank-. A. B. Whoolery. No. 1,372,466; Mar. 22; v. 284; p. 684.
- Cars, Locking device for motor-. W. Diefenbargh. No. 1,384,026; July 5; v. 288; p. 159.
- Cars, Locking mechanism for dump-. A. M. Gow. No. 1,397,165; Nov. 15.
- Cars, Means for supporting automobiles in freight-. J. C. Miller. No. 1,379,773; May 31; v. 286; p. 902.
- Cars, Means for varying the temperature of. D. Clark. No. 1,368,898; Feb. 15; v. 283; p. 499.
- Cars, Metal end structure for railway-. S. H. Conwell. No. 1,388,849; Aug. 30; v. 289; p. 807.
- Cars, movable partition for stock-. V. A. Vassau. No. 1,399,908; Dec. 13.
- Cars, Mud-guard for motor-. J. B. M. B. Laggiard. No. 1,387,412; Aug. 9; v. 289; p. 360.
- Cars, Multiple car-fare ticket-card for street-. F. G. Wauder. No. 1,368,776; Feb. 15; v. 283; p. 475.
- Cars, Multiple-unit door-control arrangement for. F. Hadley and J. S. Doyle. No. 1,381,638; June 14; v. 287; p. 301.
- Cars, Oil-gage for motor-. L. E. Kitchen. No. 1,395,682; Nov. 1.
- Cars on electric and other railways, Electric signaling apparatus for. H. Schaub and C. Künzli. No. 1,381,020; June 7; v. 287; p. 134.
- Cars, Package and article carrier for motorcycle side. W. L. Batt. No. 1,385,771; July 26; v. 288; p. 725.
- Cars, Power attachment for Ford. O. A. Bloom. No. 1,400,720; Dec. 20.
- Cars, Rear bumper for Ford. O. H. Goetz. No. 1,381,914; June 21; v. 287; p. 414.
- Cars, Reinforced end for box-. G. A. Johnson. No. 1,398,697; Nov. 29.
- Cars, Reinforced-sheet-metal end wall for railway-. V. E. Sisson. No. 1,387,079; Aug. 9; v. 289; p. 294.
- Cars, Reinforcement for the end-walls of railway box-. V. E. Sisson. No. 1,382,025; June 21; v. 287; p. 434.
- Cars, Safety appliance for street-. F. D. Macdonald. No. 1,385,259; July 19; v. 288; p. 545.
- Cars, Safety brush-brake for railway motor-. S. C. Tanner. No. 1,385,729; July 26; v. 288; p. 717.
- Cars, Safety device for. T. M. Wallis. No. 1,398,120; Nov. 22.
- Cars, Safety hand-rail for street-. T. DeGraff. No. 1,367,538; Feb. 8; v. 283; p. 188.
- Cars, Safety-lock for motor-. J. Gage. No. 1,371,886; Mar. 15; v. 284; p. 516.
- Cars, Safety-signal for street-. H. P. Hoppe. No. 1,389,660; Sept. 6; v. 290; p. 21.
- Cars, Shock-absorber for dump-. R. E. Cartzadafner. No. 1,375,563; Apr. 19; v. 285; p. 524.
- Cars, Side bearing for railway-. W. A. Geiger. No. 1,387,254; Aug. 9; v. 289; p. 326.
- Cars, Side bearing for railway-. W. J. Knox. No. 1,387,852; Aug. 16; v. 289; p. 500.
- Cars, Side bearing for railway-. E. Posson. No. 1,389,698; Sept. 6; v. 290; p. 27.
- Cars, Sliding seat for motor-. A. E. Cole. No. 1,383,077; June 28; v. 287; p. 688.
- Cars, Stake for flat-. M. Markkula. No. 1,398,441; Nov. 29.
- Cars, Steam-heating apparatus for railway-. E. H. Gold. No. 1,384,751; July 19; v. 288; p. 440.
- Cars, Street-indicator for railway-. D. B. Mayberry. No. 1,382,845; June 28; v. 287; p. 643.
- Cars, Striking-block for railway-. L. A. Hoerr. No. 1,382,085; June 21; v. 287; p. 445.
- Cars, Support for elevator-. J. M. Murphy. No. 1,392,962; Oct. 11.
- Cars, Tandem draft-gear yoke for railway-. J. F. O'Connor. No. 1,364,510; Jan. 4; v. 282; p. 91.
- Cars, Timber-roller-supporting device for. J. M. Mattix. No. 1,384,770; July 19; v. 288; p. 444.
- Cars, Torpedo-removing attachment for hand-. D. A. Hewitt. No. 1,385,003; July 19; v. 288; p. 492.
- Cars, Trolley-wheel for electric street-. J. S. Navarro. No. 1,388,590; Aug. 23; v. 289; p. 701.
- Cars, Trolley-wheel for electric street-. J. S. Navarro. No. 1,391,903; Sept. 27; v. 290; p. 700.
- Cars, Unloading attachment for. C. D. Mack. No. 1,373,623; Apr. 5; v. 285; p. 47.
- Cars, Upper buffer for vestibule-. P. Kass. No. 1,397,588; Nov. 22.
- Cars, Valve mechanism for tank-. M. A. Garrett. No. 1,399,608; Dec. 6.
- Cars, Ventilating-flooring for railway-. W. E. Van Dorn. No. 1,364,660; Jan. 4; v. 282; p. 118.
- Cars, wagons, &c., Body construction for. A. M. Goff. No. 1,372,745; Mar. 29; v. 284; p. 779.
- Cars, Weather screen or hood for motor-. R. W. Anderson. No. 1,393,734; Oct. 18.
- Cars, Wheel-holder for railway-. O. M. McGuire. No. 1,394,318; Oct. 18.
- Cars, Window-curtain for street-. R. Fabrizio. No. 1,399,253; Dec. 6.
- Carend, Corrugated sheet-metal. W. P. Murphy. (Re-issue.) No. 15,193; Sept. 13; v. 290; p. 377.
- Carline, F. Mathews. No. 1,396,703; Nov. 8.
- Carline, R. C. Munro. No. 1,378,051; May 17; v. 286; p. 429.
- Carline, W. N. Oehm. No. 1,383,841; July 5; v. 288; p. 121.
- Carbid, Making. J. H. Reid. No. 1,396,058; Nov. 8.
- Carbids and derivatives thereof, Process and apparatus for the manufacture of. F. E. Norton. No. 1,374,317; Apr. 12; v. 285; p. 222.
- Carbohydrate esters and products thereof, Colloiding. F. E. Stockelbach. No. 1,370,853; Mar. 8; v. 284; p. 254.
- Carbon, Activating. J. C. Woodruff. No. 1,368,987; Feb. 15; v. 283; p. 515.
- Carbon and similar materials, Solidifying. C. J. Randall. No. 1,384,039; July 12; v. 288; p. 221.
- Carbon and similar papers, Renewing. H. H. Buckley. No. 1,396,403; Nov. 8.
- Carbon bisulfid. K. P. McElroy. No. 1,369,825; Mar. 1; v. 284; p. 14.
- Carbon-black and other pulverulent materials, Apparatus for compressing. W. W. McMahan. No. 1,372,181; Mar. 22; v. 284; p. 629.
- Carbon-black and other solid reaction products, Manufacture of. W. D. Bancroft. No. 1,390,480; Sept. 13; v. 290; p. 276.
- Carbon black, Apparatus for the manufacture of. H. A. Bubb. No. 1,367,178; Feb. 1; v. 283; p. 59.
- Carbon-black, Producing. B. W. Rumbarger. Nos. 1,401,737-8; Dec. 27.
- Carbon-cutting machine. C. Hambuechen. No. 1,384,756; July 19; v. 288; p. 441.
- Carbon dioxide, Conversion of carbon monoxid into. J. C. Clancy. No. 1,376,514; May 3; v. 286; p. 25.
- Carbon dioxide, Masks for the inhalation of. Y. Henderson. No. 1,396,429; Nov. 8.
- Carbon, Electrolytic process for the treatment of. A. R. Bullock. No. 1,378,834; May 24; v. 286; p. 651.
- Carbon-producing apparatus. E. W. Shull. No. 1,375,234; Apr. 19; v. 285; p. 462.
- Carbon, Producing decolorizing. M. B. Punnett and R. A. Whitaker. No. 1,383,755; July 5; v. 288; p. 103.
- Carbon, Production of. C. S. Bradley. No. 1,396,018; Nov. 8.
- Carbon-remover. R. R. Champlin. No. 1,372,639; Mar. 22; v. 284; p. 717.
- Carbon-remover. G. D. Hoover. No. 1,386,337; Aug. 2; v. 289; p. 75.
- Carbon-remover. Z. J. Olaf. No. 1,368,965; Feb. 15; v. 283; p. 511.
- Carbon-remover. C. B. Olson. No. 1,374,519; Apr. 12; v. 285; p. 262.
- Carbon-remover. G. Torossian. No. 1,386,385; Aug. 2; v. 289; p. 83.
- Carbon-removing device. P. B. Saugen. No. 1,401,499; Dec. 27.
- Carbon-removing tool. E. H. Slagle. No. 1,374,530; Apr. 12; v. 285; p. 264.
- Carbon-scraper. A. B. Seppmann. No. 1,388,489; Aug. 23; v. 289; p. 682.
- Carbonaceous substance, Transporting. L. W. Bates. No. 1,390,230; Sept. 6; v. 290; p. 134.
- Carbonated liquids, Apparatus for bottling. D. Humphrey. No. 1,373,817; Apr. 5; v. 285; p. 85.
- Carbonating and dispensing apparatus. D. Humphrey. No. 1,373,075; Mar. 29; v. 284; p. 844.
- Carbonator and draft-arm for soda-water. C. A. Geddes. No. 1,397,929; Nov. 22.
- Carbonator and filler, Combination. E. E. Sager and O. L. King. No. 1,394,794; Oct. 25.
- Carbonizing apparatus. H. N. McLeod. No. 1,375,714; Apr. 26; v. 285; p. 586.
- Carbonizing apparatus. F. W. Young. No. 1,397,029; Nov. 15.
- Carbonating apparatus, Liquid-. M. S. Kimbul. No. 1,373,892; Apr. 5; v. 285; p. 100.
- Carbonizing-box, annealing-pot, and similar article. W. E. Jeannot. No. 1,380,804; June 7; v. 287; p. 92.
- Carbonizing compounds, Making. J. Farrell. No. 1,374,642; Apr. 12; v. 285; p. 286.
- Carbonizing-furnace. T. M. U. von Post. No. 1,375,944; Apr. 26; v. 285; p. 630.
- Carboy. K. Brown. No. 1,371,220; Mar. 15; v. 284; p. 386.
- Carboy-package. C. W. Riegel. No. 1,380,020; May 31; v. 286; p. 949.
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- Carbureter. F. D. Ackley. No. 1,381,897; June 21; v. 287; p. 411.
- Carbureter. J. E. Alpine. No. 1,397,711; Nov. 22.



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- Carbureter. J. Baldwin. No. 1,373,644; Apr. 5; v. 285; p. 51.
- Carbureter. F. H. Ball. No. 1,391,930; Sept. 27; v. 290; p. 706.
- Carbureter. T. Bemis. No. 1,390,752; Sept. 13; v. 290; p. 331.
- Carbureter. C. P. Buhl. No. 1,397,500; Nov. 22.
- Carbureter. L. F. Burger. No. 1,395,387; Nov. 1.
- Carbureter. L. S. Campbell. No. 1,393,426; Oct. 11.
- Carbureter. M. G. Chandler. No. 1,370,949; Mar. 8; v. 284; p. 272.
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- Carbureter. W. O. Chase. No. 1,394,536; Oct. 25.
- Carbureter. E. P. Ciglia and L. F. Pelletier. No. 1,375,898; Apr. 26; v. 285 p. 620.
- Carbureter. W. R. Clark. No. 1,386,238; Aug. 2; v. 289; p. 55.
- Carbureter. D. Cole. No. 1,384,429; July 12; v. 288; p. 292.
- Carbureter. H. Csanyi. No. 1,398,067; Nov. 22.
- Carbureter. J. O. Cunningham. No. 1,382,063; June 21; v. 287; p. 441.
- Carbureter. W. E. Dewey. No. 1,384,799; July 19; v. 288; p. 450.
- Carbureter. E. Drahonovsky. No. 1,371,302; Mar. 15; v. 284; p. 402.
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- Carbureter. W. A. Edwards. No. 1,390,681; Sept. 13; v. 290; p. 318.
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- Carbureter. E. B. Gifford. No. 1,369,419; Feb. 22; v. 283; p. 639.
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- Carbureter. C. T. Murphy. No. 1,376,156; Apr. 26; v. 285; p. 670.
- Carbureter. A. L. Payton. No. 1,367,787; Feb. 8; v. 283; p. 236.
- Carbureter. J. Plat. No. 1,368,451; Feb. 15; v. 283; p. 412.
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- Carbureter. B. N. Pierce. No. 1,366,831; Jan. 25; v. 282; p. 669.
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- Carbureter. W. Reid. No. 1,394,687; Oct. 25.
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- Carbureter. P. Viviano. No. 1,373,542; Apr. 5; v. 285; p. 32.
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- Carbureter attachment. A. Eidam. No. 1,367,772; Feb. 8; v. 283; p. 233.
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- Carbureter-controller. C. L. Heacock. No. 1,365,242; Jan. 11; v. 282; p. 274.
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- Carbureter float mechanism. E. M. Anderson. No. 1,380,032; May 31; v. 286; p. 951.
- Carbureter for internal-combustion engines. H. R. Ricardo. No. 1,371,397; Mar. 15; v. 284; p. 422.
- Carbureter for internal-combustion engines. G. F. Trotter. No. 1,377,529; May 10; v. 286; p. 276.
- Carbureter for internal-combustion engines. F. H. de Vuille. No. 1,365,158; Jan. 11; v. 282; p. 258.
- Carbureter fuel control. V. E. Wasserlein. No. 1,392,724; Oct. 4.
- Carbureter, Gas-engine. H. L. Kent. No. 1,371,562; Mar. 15; v. 284; p. 455.
- Carbureter-heater. E. D. Hiscock. No. 1,378,789; May 17; v. 286; p. 570.
- Carbureter-heating device. C. Torres. No. 1,367,789; Feb. 8; v. 283; p. 236.
- Carbureter-intakes. Self-cleaning filter for. R. L. Eddy. No. 1,377,191; May 10; v. 286; p. 211.
- Carbureter, Kerosene. H. S. Thomasson. No. 1,381,253; June 14; v. 287; p. 229.
- Carbureter-lock. R. P. Bernardini. No. 1,380,346; June 7; v. 287; p. 4.
- Carbureter-lock. C. E. Northrop. No. 1,384,674; July 12; v. 288; p. 344.
- Carbureter, Vacuum. W. J. En Earl. No. 1,395,950; Nov. 1.
- Carbureter, Vacuum-feed. R. F. Bracke. No. 1,370,944; Mar. 8; v. 284; p. 271.
- Carbureters, Air-valve for. P. A. Anderson. No. 1,376,063; Apr. 26; v. 285; p. 652.
- Carbureters, Automatic air-valve for. C. E. Osborne. No. 1,379,474; May 24; v. 286; p. 772.
- Carbureters, Automatic fuel-feed system for. C. C. Bradbury. No. 1,364,479; Jan. 4; v. 282; p. 841.
- Carbureters, Fuel-control valve for. V. E. Wasserlein. No. 1,374,262; Apr. 12; v. 285; p. 212.
- Carbureters, Fuel-feeding device for. P. P. Gilles. No. 1,381,867; June 14; v. 287; p. 345.
- Carbureters, Fuel-supply device for. E. G. Hodges. No. 1,367,143; Feb. 1; v. 283; p. 52.
- Carbureters, Hot-air-controlling device for air-intake of. J. C. Wurster. No. 1,371,189; Mar. 8; v. 284; p. 317.
- Carbureters, Lock-control fuel-feed for. A. R. Wicker. No. 1,374,621; Apr. 12; v. 285; p. 282.
- Carbureters, Operating and controlling means for. D. L. Winters. No. 1,384,291; July 12; v. 288; p. 263.
- Carbureters, Surface vaporizer attachment for. E. R. Godward. No. 1,383,932; July 5; v. 288; p. 139.
- Carbureters, Treatment of air for internal-combustion-engine. F. F. Stratton. No. 1,387,021; Aug. 9; v. 289; p. 282.
- Carbureters, Vacuum feeding device for. F. V. Risinger. No. 1,391,793; Sept. 27; v. 290; p. 677.
- Carbureting air with solid fuel, Apparatus for. T. F. Williams, D. W. Coy, and H. B. Pruden. No. 1,385,412; July 26; v. 288; p. 651.
- Carbass dehairing and cleaning machine. O. C. Schmidt. No. 1,388,899; Aug. 30; v. 289; p. 817.
- Carbass dehairing and cleaning machine. C. G. and O. C. Schmidt. No. 1,388,898; Aug. 30; v. 289; p. 817.
- Carbass-dehairing drum, Rigid. J. W. Kohlhepp. No. 1,367,056; Feb. 1; v. 283; p. 35.



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- Carcass-dehairing wheel. J. W. Kohlhepp. No. 1,367,057; Feb. 1; v. 283; p. 35.
- Card, Advertising-. A. E. Bradley. No. 1,365,451; Jan. 11; v. 282; p. 315.
- Card, Advertising-. J. P. Buckley. No. 1,379,392; May 24; v. 286; p. 757.
- Card and making same, Coin-. H. H. Steele. No. 1,398,607; Nov. 29.
- Card and poster holder, Commercial. C. Weidner. No. 1,401,216; Dec. 27.
- Card and producing the same, Ornamental. P. J. Osborne. No. 1,374,764; Apr. 12; v. 285; p. 309.
- Card-counter. C. E. Carroll. No. 1,393,009; Oct. 11.
- Card, Display-. C. F. Farnham. No. 1,380,198; May 31; v. 286; p. 982.
- Card-display mechanism. J. Gumber and A. Schneider. No. 1,399,210; Dec. 6.
- Card-distributing machine. A. S. Trew. No. 1,375,341; Apr. 19; v. 285; p. 463.
- Card-exhibitor. M. Mather. No. 1,389,592; Sept. 6; v. 290; p. 6.
- Card-feeder. J. B. Howe. No. 1,399,557; Dec. 6.
- Card-file. W. H. Hall. No. 1,368,925; Feb. 15; v. 283; p. 504.
- Card game. M. A. Broderick. No. 1,373,115; Mar. 29; v. 284; p. 852.
- Card-holder. H. J. Farnham. No. 1,394,157; Oct. 18.
- Card-holder. A. B. Marshel. No. 1,376,716; May 3; v. 286; p. 63.
- Card-holder. M. Meyerson. No. 1,366,818; Jan. 25; v. 282; p. 667.
- Card-holder. F. J. Peterson. No. 1,374,863; Apr. 12; v. 285; p. 328.
- Card-holder. P. H. W. Redford. No. 1,386,657; Aug. 9; v. 289; p. 208.
- Card holder, Identification-. W. F. Luick. No. 1,378,179; May 17; v. 286; p. 453.
- Card holder, Price-. L. B. Smith. No. 1,372,205; Mar. 22; v. 284; p. 634.
- Card holder, Price-. W. M. Anderson. No. 1,391,090; Sept. 20; v. 290; p. 462.
- Card holder, Show-. O. R. Sielaff. No. 1,396,892; Nov. 15.
- Card, Index-. L. A. Gale. No. 1,370,424; Mar. 1; v. 284; p. 127.
- Card, Index-. L. A. Gale. No. 1,390,199; Sept. 6; v. 290; p. 128.
- Card, Index-. L. A. Gale. No. 1,391,182; Sept. 20; v. 290; p. 481.
- Card, Index-. D. E. Hunter. No. 1,382,644; June 28; v. 287; p. 605.
- Card index, Overlapping-flat-. E. W. Hill. No. 1,373,070; Mar. 29; v. 284; p. 843.
- Card-index system, Automobile. A. B. Crehore. No. 1,373,171; Mar. 29; v. 284; p. 864.
- Card-index system, Selective. I. W. Litchfield. No. 1,382,004; June 21; v. 287; p. 430.
- Card-match machines, Carrier for. J. P. and C. F. Wright. No. 1,400,338; Dec. 13.
- Card, Memorandum-. A. V. E. Lund. No. 1,381,925; June 21; v. 287; p. 416.
- Card-mount for articles of merchandise. W. H. Meyer. No. 1,378,262; May 17; v. 286; p. 469.
- Card, Post-. A. Gilbert. No. 1,393,213; Oct. 11.
- Card-punching device. A. Knistrom. No. 1,397,007; Nov. 15.
- Card, Sales-registration. W. H. Roystone. No. 1,396,288; Nov. 8.
- Card, Sample-. E. Hirtz. No. 1,398,431; Nov. 29.
- Card section, Interchangeable price-. H. L. Lovett. No. 1,395,127; Oct. 25.
- Card-shuffer. C. T. Hall. No. 1,380,898; June 7; v. 287; p. 110.
- Card-sorting-machine attachment. C. D. Lake. No. 1,372,964; Mar. 29; v. 284; p. 823.
- Card-sorting-machine attachment. C. D. Lake. No. 1,389,951; Sept. 6; v. 290; p. 79.
- Card-spreading device. P. E. Fleming. No. 1,380,371; June 7; v. 287; p. 9.
- Card system, Indexed. L. A. Wernery. No. 1,383,684; July 5; v. 288; p. 89.
- Card tab, Index-. W. Feldmann. No. 1,373,063; Mar. 29; v. 284; p. 842.
- Card-tabulator printer, Electrical non-stop. H. D. Penney and J. E. Davidson. No. 1,376,572; May 3; v. 286; p. 36.
- Card, Time and value. G. W. Odell. No. 1,385,576; July 26; v. 288; p. 685.
- Cards and games, Playing-. J. R. Silliman, Jr. No. 1,390,824; Sept. 13; v. 290; p. 346.
- Cards, Clip for guide. F. E. Kunkel. No. 1,364,560; Jan. 4; v. 282; p. 99.
- Cards, Device for displaying. F. C. Rinsche. No. 1,399,444; Dec. 6.
- Cards, Frame for advertising-. R. A. Johnston. No. 1,382,646; June 28; v. 287; p. 606.
- Cards, Game of. J. K. Fitzgerald. No. 1,368,130; Feb. 8; v. 283; p. 301.
- Cards, Game of. J. W. Jourdan. No. 1,381,643; June 14; v. 287; p. 302.
- Cards, Garnett worker-breast for wool-. E. V. Bates. No. 1,368,319; Feb. 15; v. 283; p. 386.
- Cards, Machine for making coin-. H. H. Steele. No. 1,400,634; Dec. 20.
- Cards, Playing-. W. E. Wrisberg. No. 1,373,286; Mar. 29; v. 284; p. 887.
- Cards, Tray-holder for record-. J. A. Kimball. No. 1,372,516; Mar. 22; v. 284; p. 693.
- Cardboard boxes or cartons, Clip for strengthening. W. A. Pike. No. 1,376,636; May 3; v. 286; p. 48.
- Cardboard, Device for creasing. H. O. Tibbitts. No. 1,367,675; Feb. 8; v. 283; p. 214.
- Cardboard, Manufacturing. I. Pomarski. No. 1,367,279; Feb. 1; v. 283; p. 79.
- Carding-engine. E. Tillotson. No. 1,395,877; Nov. 1.
- Carding-engine and like machinery. D. Bray. No. 1,369,776; Mar. 1; v. 284; p. 5.
- Carding-machine. E. H. Rooney. No. 1,380,022; May 31; v. 286; p. 950.
- Cargoes, Means for unloading floatable. J. Reid. No. 1,370,912; Mar. 8; v. 284; p. 265.
- Carousel, Conversely-turning. J. C. Turner. No. 1,377,641; May 10; v. 286; p. 297.
- Carpet attachment device. W. Gloor and L. Haack. No. 1,381,913; June 21; v. 287; p. 414.
- Carpet-cleaner, Suction. J. H. Graham. No. 1,384,998; July 19; v. 288; p. 491.
- Carpet-cleaning machine. J. F. Stallsmith. No. 1,396,977; Nov. 15.
- Carpet-fastening device. G. W. Rathjens. No. 1,401,490; Dec. 27.
- Carpet-rug needle. A. M. Schmuck. No. 1,384,973; July 19; v. 288; p. 485.
- Carpet, rugs, table-covers, &c., Manufacture of tapestry or printed. J. Morton. No. 1,391,785; Sept. 27; v. 290; p. 675.
- Carpet-stiffener. A. F. Lonk. No. 1,380,989; June 7; v. 287; p. 128.
- Carpet-sweeper. J. H. Graham. No. 1,384,999; July 19; v. 288; p. 492.
- Carpet-sweeper. J. H. Graham and E. C. Murdick. No. 1,384,997; July 19; v. 288; p. 491.
- Carpet-sweeper, brush cleaner, and stripper. E. R. Smith. No. 1,367,722; Feb. 8; v. 283; p. 224.
- Carpet-sweepers, Framework for vacuum-cleaner. I. J. Owen. No. 1,371,432; Mar. 15; v. 284; p. 429.
- Carpet-sweepers, Switch-actuating device for electric. J. R. Vander Lufften. No. 1,391,501; Sept. 20; v. 290; p. 546.
- Carpet-weave. G. Crossland. No. 1,367,022; Feb. 1; v. 283; p. 28.
- Carpets, Device for holding. J. P. Rasmussen. No. 1,383,565; July 5; v. 288; p. 63.
- Carpets, Stair-eye to facilitate the laying down and taking up of stair-. E. St. J. Phillips. No. 1,373,148; Mar. 29; v. 284; p. 859.
- Carriage adjustable back. C. A. Lindberg. No. 1,387,499; Aug. 16; v. 289; p. 428.
- Carriage and lens-mount, Lantern-. A. G. Hammell, Sr. No. 1,364,753; Jan. 4; v. 282; p. 136.
- Carriage, Baby-. J. Bak. No. 1,372,588; Mar. 22; v. 284; p. 708.
- Carriage, Baby-. O. E. Kilmer. No. 1,401,085; Dec. 20.
- Carriage, Baby-. G. H. Smith. No. 1,375,614; Apr. 19; v. 285; p. 534.
- Carriage blocks, Taper attachment for sawmill. I. W. Johnson. No. 1,383,544; July 5; v. 288; p. 59.
- Carriage, Cableway-. K. Berger. No. 1,383,782; July 5; v. 288; p. 109.
- Carriage, cradle, and crib, Combined baby. V. Gudouski. No. 1,372,422; Mar. 22; v. 284; p. 675.
- Carriage, Hosiery-. E. M. Witherell. No. 1,384,547; July 12; v. 288; p. 317.
- Carriage, Interchangeable. C. Spiro. No. 1,383,578; July 5; v. 288; p. 66.
- Carriages, Attachment for children's. F. Peters. No. 1,388,756; Aug. 23; v. 289; p. 734.
- Carriages, Auxiliary seat for baby-. A. W. Olson. No. 1,372,538; Mar. 22; v. 284; p. 697.
- Carriages, Shock-absorber for calculating-machine. E. F. Britten, Jr. No. 1,384,592; July 12; v. 288; p. 326.
- Carrier. *See*—
- |                             |                                      |
|-----------------------------|--------------------------------------|
| Adjustable luggage-carrier. | Hay-carrier.                         |
| Article-carrier.            | Ice-carrier.                         |
| Auto-carrier.               | Inner-tube carrier.                  |
| Auto baggage-carrier.       | License-number carrier.              |
| Automatic carrier.          | Luggage-carrier.                     |
| Basket-carrier.             | Milk-bottle carrier.                 |
| Bicycle luggage-carrier.    | Package-carrier.                     |
| Braiding-machine carrier.   | Parcel-carrier.                      |
| Brick-carrier.              | Pneumatic - despatch - tire carrier. |
| Bulk-cargo carrier.         | Portable baby-carrier.               |
| Cartridge-carrier.          | Radiator-carrier.                    |
| Cash-carrier.               | Rim and tire carrier.                |
| Casket-carrier.             | Running-board carrier.               |
| Cigar-carrier.              | Self-dumping bar-carrier.            |
| Cleaner-carrier.            | Spare-tire carrier.                  |
| Color-screen carrier.       | Spinning-ring carrier.               |
| Confection-cone carrier.    | Tire-carrier.                        |
| Curtain-carrier.            | Tire-rim carrier.                    |
| Egg-carrier.                | Tire-tube carrier.                   |
| Folding luggage-carrier.    | Trace-carrier.                       |
| Gravity-carrier.            |                                      |



*Alphabetical list of inventions--Continued.*

- Carrier: *See*—Continued.  
 Trolley-harp carrier. Woven pocket carrier.  
 Type-carrier. Woven pocketed carrier.  
 Wick-carrier. X-ray-film carrier.  
 Carrier, W. G. Beatty. No. 1,367,653; Feb. 8; v. 283; p. 210.  
 Carrier, L. L. Freund. No. 1,374,372; Apr. 12; v. 285; p. 233.  
 Carrier, A. L. Williams. No. 1,376,370; Apr. 26; v. 285; p. 711.  
 Carrier apparatus. T. W. Nygreen. No. 1,364,404; Jan. 4; v. 282; p. 69.  
 Carrier-despatch system. A. Koenig. No. 1,373,080; Mar. 29; v. 284; p. 845.  
 Carrier-distributor. J. G. Maclaren. No. 1,367,162; Feb. 1; v. 283; p. 56.  
 Carrier equipment, Pocketed-. V. H. Jennings. No. 1,371,073; Mar. 15; v. 284; p. 533.  
 Carrier equipment, Woven. F. R. Batchelder. No. 1,392,551; Oct. 4.  
 Carrier for laundry articles. D. D. and M. A. MacCormick. No. 1,385,695; July 26; v. 288; p. 710.  
 Carrier or trolley. F. D. Broga. No. 1,383,383; July 5; v. 288; p. 26.  
 Carrier, Radiator-. C. G. Hall, F. A. Devereaux, and A. R. Cobey. No. 1,396,328; Nov. 8.  
 Carrier systems, Regulating mechanism for pneumatic. J. J. Stoetzel. No. 1,385,727; July 26; v. 288; p. 717.  
 Cart, Barrel-. L. L. Steinke. No. 1,374,406; Apr. 12; v. 285; p. 240.  
 Cart, Child's. F. J. Schroeder. No. 1,384,160; July 12; v. 288; p. 236.  
 Cart cover, Ash-. S. Rochlis. No. 1,379,695; May 31; v. 286; p. 888.  
 Cart, Harrow-. D. B. Frisby. No. 1,385,535; July 26; v. 288; p. 677.  
 Cart, Harrow-. J. J. Kovar. No. 1,392,946; Oct. 11.  
 Cart, Scrub-. F. R. Burgess. No. 1,369,780; Mar. 1; v. 284; p. 5.  
 Cart, Tea-. M. J. Cheeseman. No. 1,370,517; Mar. 8; v. 284; p. 189.  
 Cart, Toy dump-. R. A. Sale. No. 1,364,586; Jan. 4; v. 282; p. 104.  
 Cart, Wheeling service-. L. H. Kaiser. No. 1,396,713; Nov. 8.  
 Carts, Tractor-coupling for sugar-. H. F. Ruggles. No. 1,398,575; Nov. 29.  
 Carton, J. V. Horr. No. 1,369,924; Mar. 1; v. 284; p. 32.  
 Carton, J. V. Horr. No. 1,382,979; June 28; v. 287; p. 669.  
 Carton, M. S. McGurn. No. 1,383,735; July 5; v. 288; p. 99.  
 Carton and display device, Combined. J. B. Singer and A. B. Levy. No. 1,387,192; Aug. 9; v. 289; p. 316.  
 Carton, Collapsible. F. M. Joslin. No. 1,384,069; July 12; v. 288; p. 217.  
 Carton, Container and display-. W. M. and C. J. Doering. No. 1,390,196; Sept. 6; v. 290; p. 128.  
 Carton, Dispensing-. J. V. Horr. No. 1,367,048; Feb. 1; v. 283; p. 33.  
 Carton, Dispensing and displaying. R. H. Fitz Gerald. No. 1,378,533; May 17; v. 286; p. 520.  
 Carton, Dispensing and displaying. R. H. Fitz Gerald. No. 1,378,534; May 17; v. 286; p. 521.  
 Carton display, Collapsible-. G. Kay. No. 1,392,337; Oct. 4.  
 Carton, End-opening. A. Schneider. No. 1,374,956; Apr. 19; v. 285; p. 408.  
 Carton-filling machine. M. J. Milroe. No. 1,384,844; July 19; v. 288; p. 459.  
 Carton linings, Making. H. L. Johnson. No. 1,368,633; Feb. 15; v. 283; p. 447.  
 Carton-setting-up machines, Stamping attachment for. R. E. Jones and T. P. A. Vou Thien. No. 1,383,636; July 5; v. 288; p. 78.  
 Carton, Sifter-top. R. J. Gruenberg. No. 1,367,379; Feb. 1; v. 283; p. 99.  
 Carton-support. W. E. Swift. No. 1,371,331; Mar. 15; v. 284; p. 408.  
 Cartons, Machine for lining. D. M. Bernotow. No. 1,378,581; May 17; v. 286; p. 529.  
 Cartons, Machine for making. G. C. Ekström, B. A. E. Johnson, and G. Orström. No. 1,379,254; May 24; v. 286; p. 730.  
 Cartons, Machine for setting up and folding. D. M. Bernotow. No. 1,378,580; May 17; v. 286; p. 529.  
 Cartoning-machine. E. D. Anderson. No. 1,376,499; May 3; v. 286; p. 23.  
 Cartridge-belt clamp. J. S. Peoples. No. 1,376,354; Apr. 26; v. 285; p. 708.  
 Cartridge-carrier. F. R. Batchelder. No. 1,374,712; Apr. 12; v. 285; p. 299.  
 Cartridge-case, Integral non-metallic. H. Ernst. No. 1,364,871; Jan. 11; v. 282; p. 203.  
 Cartridge-clip. W. D. Ashworth. No. 1,379,075; May 24; v. 286; p. 696.  
 Cartridge-explosive. E. S. McKinlay. No. 1,379,637; May 31; v. 286; p. 877.  
 Cartridge for small-arms, machine-guns and the like. H. Greener. No. 1,376,530; May 3; v. 286; p. 28.  
 Cartridge-fuse. R. C. Cole. No. 1,396,731; Nov. 15.  
 Cartridge-holder. S. G. Green. No. 1,401,152; Dec. 27.  
 Cartridge-magazine. C. A. Nelson. No. 1,365,845; Jan. 18; v. 282; p. 431.  
 Cartridge-magazine, Automatic. R. J. Turner. No. 1,368,375; Feb. 15; v. 283; p. 397.  
 Cartridge-magazines, cartridge-belts, strip-chargers, &c., Machine for filling. H. R. Northover. No. 1,395,928; Nov. 1.  
 Cartridge-necking press. H. V. Leckie. No. 1,367,191; Feb. 1; v. 283; p. 61.  
 Cartridge-reloading machine. W. R. McGee. No. 1,398,106; Nov. 22.  
 Cartridge, Tea-. B. Hirschhorn. No. 1,395,642; Nov. 1.  
 Cascade-pan. L. A. Thiele. No. 1,380,689; June 7; v. 287; p. 69.  
 Case: *See*—  
 Advertising or display-case. Map-case.  
 Ammunition-packing case. Music-case.  
 Blow-case. Packing-case.  
 Bolt with divided case. Piano-case.  
 Bookcase. Pillow-case.  
 Brief-case. Printing-case.  
 Burial-case. Refrigerator display-case.  
 Camera-case. Sample-case.  
 Cartridge-case. Sanitary case.  
 Cigarette-case. Sheet-metal gear-case.  
 Clock-case. Shipping-case.  
 Combination display-case. Show-case.  
 Dispensing card-case. Spectacle-case.  
 Dispensing-showcase. Stock and display case.  
 Display-case. Suitcase.  
 Filing-case. Ticket-case.  
 Filing-appliance case. Tobacco-display case.  
 Folding shipping-case. Toilet-case.  
 Hat-case. Vanity-case.  
 Jewelry-case. Watch-movement case.  
 Knockdown bottle-case. Watchcase.  
 License-certificate-display case.  
 Case-hardening compound and manufacturing. H. Rodman. No. 1,372,832; Mar. 29; v. 284; p. 796.  
 Case-hardening compound and using same. De S. E. Richardson. No. 1,379,722; May 31; v. 286; p. 893.  
 Case-hardening, Controlling. W. H. Allen. No. 1,377,174; May 10; v. 286; p. 207.  
 Case-hardening preparation. C. A. Stewart. No. 1,379,319; May 24; v. 286; p. 743.  
 Case-shifting mechanism. C. Spiro. No. 1,388,616; Aug. 23; v. 289; p. 706.  
 Cases, Breather for transmission-. H. L. Leverett. No. 1,365,836; Jan. 18; v. 282; p. 430.  
 Cases, Constructing and sealing shipping-. H. R. Bliss. No. 1,379,797; May 31; v. 286; p. 907.  
 Cases, Fastener for lids of. R. H. Roberts and P. N. Kingswell. No. 1,384,151; July 12; v. 288; p. 235.  
 Cases for containing drawers, shelves, &c., Construction of metal. W. Chipperfield. No. 1,401,041; Dec. 20.  
 Cases, Vertically-operated buffing device for metal. M. Jelalian. No. 1,384,259; July 12; v. 288; p. 257.  
 Casing and piling construction. P. F. Burns. No. 1,399,846; Dec. 13.  
 Casing clamp, Safety-. W. M. Angus. No. 1,371,835; Mar. 15; v. 284; p. 507.  
 Casing for universal joints. P. Evans. No. 1,397,413; Nov. 15.  
 Casing-head. C. S. Clarke. No. 1,400,940; Dec. 20.  
 Casing-head attachment. C. M. Heeter. No. 1,366,075; Jan. 18; v. 282; p. 476.  
 Casing-pulling apparatus. J. H. Wilson. No. 1,398,822; Nov. 29.  
 Casing-spear. W. E. Youle. No. 1,377,301; May 10; v. 286; p. 232.  
 Casings or pipings, Elevator for. V. W. Zilen. No. 1,368,779; Feb. 15; v. 283; p. 476.  
 Casein-tung-oil product and producing same. E. T. Oakes. No. 1,380,494; June 7; v. 287; p. 32.  
 Casement-adjuster. W. K. Earle. No. 1,378,373; May 17; v. 286; p. 189.  
 Casement-holder. W. L. Burtis. No. 1,398,768; Nov. 29.  
 Casement-lock, Concealed French. C. J. Hagstrom. No. 1,368,141; Feb. 8; v. 283; p. 303.  
 Cash and currency container. J. L. Davidson. No. 1,396,361; Nov. 8.  
 Cash-carrier. J. L. Baldwin. No. 1,388,791; Aug. 23; v. 289; p. 741.  
 Cash-drawer, Automatic. C. R. Randall. No. 1,389,981; Sept. 6; v. 290; p. 85.  
 Cash, Printing device for registering. W. Kolbe. No. 1,398,435; Nov. 29.  
 Cash-recording device. W. L. Deming. No. 1,375,490; Apr. 19; v. 285; p. 511.  
 Cash-register. F. L. Fuller. No. 1,369,415; Feb. 22; v. 283; p. 638.  
 Cash-register. F. L. Fuller. No. 1,394,256; Oct. 18.  
 Cash-register. H. S. Hallwood. No. 1,385,540; July 26; v. 288; p. 678.  
 Cash-register. W. L. Paden. No. 1,396,277; Nov. 8.  
 Cash-register. B. M. Shipley. No. 1,398,576; Nov. 29.  
 Cash-registers, Perforating mechanism for. T. Carroll and J. C. Lockyer. No. 1,387,762; Aug. 16; v. 289; p. 482.  
 Casket. J. H. Gleason. No. 1,387,974; Aug. 16; v. 289; p. 523.  
 Casket attachment, Burial. F. P. J. Sparmaker. No. 1,366,681; Jan. 25; v. 282; p. 639.



## Alphabetical list of inventions—Continued.

- Casket, Burial-. F. O. Downer. No. 1,381,908; June 21; v. 287; p. 413.
- Casket-carrier. C. F. Pettkoske. No. 1,374,320; Apr. 12; v. 285; p. 223.
- Casket, Glass. G. H. Mellon. No. 1,364,782; Jan. 4; v. 282; p. 142.
- Casket, Glass. H. Tyree. No. 1,365,633; Jan. 11; v. 282; p. 350.
- Casket-handle. E. R. Sargent. No. 1,374,327; Apr. 12; v. 285; p. 224.
- Casket-handle. E. R. Sargent. No. 1,384,156; July 12; v. 288; p. 235.
- Casket-handle. E. R. Sargent. No. 1,390,461; Sept. 13; v. 290; p. 272.
- Casket, Hermetically-sealed. O. H. Eliel. No. 1,369,919; Mar. 1; v. 284; p. 31.
- Caskets. G. H. Mellon and W. R. Smith. No. 1,364,780; Jan. 4; v. 282; p. 141.
- Caskets. G. H. Mellon and W. R. Smith. No. 1,364,781; Jan. 4; v. 282; p. 142.
- Cast-iron, Composition for the treatment of. H. L. Coles. No. 1,397,404; Nov. 15.
- Cast link provided with antifriction-rollers and making same. L. Bethke. No. 1,379,896; May 31; v. 286; p. 925.
- Cast-metal wheel. G. Walther. (Reissue.) No. 15,122; June 7; v. 287; p. 149.
- Cast-rim disk wheel. W. E. Williams. No. 1,378,302; May 17; v. 286; p. 476.
- Cast-steel-spoked wheel. W. E. Williams. No. 1,387,529; Aug. 16; v. 289; p. 434.
- Castellating-machine. F. C. H. Müller. No. 1,369,121; Feb. 22; v. 283; p. 581.
- Caster. D. H. Chason. No. 1,364,351; Jan. 4; v. 282; p. 59.
- Caster. J. J. Friend. No. 1,380,054; May 31; v. 286; p. 956.
- Caster. J. J. Friend. No. 1,383,396; July 5; v. 288; p. 29.
- Caster. J. A. Gamble. No. 1,375,379; Apr. 19; v. 285; p. 489.
- Caster. C. R. P. Gardner and H. Parker. No. 1,386,250; Aug. 2; v. 289; p. 58.
- Caster. O. Hohenstatt and H. Wiederhold. No. 1,370,746; Mar. 8; v. 284; p. 234.
- Caster. G. J. Kalberer and J. A. Weigel. No. 1,385,947; July 26; v. 288; p. 760.
- Caster. T. J. Keeping. No. 1,388,721; Aug. 23; v. 289; p. 727.
- Caster. T. M. Neldner. No. 1,376,724; May 3; v. 286; p. 65.
- Caster. W. H. Noelting. No. 1,383,557; July 5; v. 288; p. 62.
- Caster. R. M. Post. No. 1,383,337; July 5; v. 288; p. 16.
- Caster. A. Ramsey. No. 1,367,922; Feb. 8; v. 283; p. 262.
- Caster. W. C. Rice. No. 1,373,352; Mar. 29; v. 284; p. 900.
- Caster. F. C. Sutcliffe. No. 1,368,465; Feb. 15; v. 283; p. 415.
- Caster. R. T. Walton and J. E. MacDonald. No. 1,367,335; Feb. 1; v. 283; p. 90.
- Caster, Adjustable. W. A. Claassen. No. 1,386,317; Aug. 2; v. 289; p. 71.
- Caster, Adjustable. C. W. Ostrander. No. 1,375,536; Apr. 19; v. 285; p. 519.
- Caster, Adjustable. L. L. Werner. No. 1,367,761; Feb. 8; v. 283; p. 231.
- Caster, Ball-. T. Kelly. No. 1,375,394; Apr. 19; v. 285; p. 492.
- Caster bracket-socket. E. A. Smithfield. No. 1,383,773; July 5; v. 288; p. 107.
- Caster construction. E. A. Smithfield. No. 1,383,774; July 5; v. 288; p. 107.
- Caster-cup, Adjustable. E. H. Berg. No. 1,389,572; Sept. 6; v. 290; p. 3.
- Caster, Furniture-. L. Bozik. No. 1,391,363; Sept. 20; v. 290; p. 518.
- Caster-retainer, Tubular-leg. F. L. Rowntree. No. 1,384,091; July 12; v. 288; p. 222.
- Caster, Self-adjusting. W. K. Bradford. No. 1,373,648; Apr. 5; v. 285; p. 52.
- Caster, Swivel-. S. W. Chestnutt. No. 1,367,301; Feb. 1; v. 283; p. 83.
- Caster, Swivel-. J. L. Chesnutt. No. 1,392,911; Oct. 11.
- Caster, Swivel-. J. L. Chesnutt. Nos. 1,392,913-4; Oct. 11.
- Caster, Top-bearing. D. B. Diss. No. 1,395,484; Nov. 1.
- Caster-wheel. C. H. Clark. No. 1,395,257; Nov. 1.
- Caster-wheel. A. J. Howe. No. 1,369,243; Feb. 22; v. 283; p. 605.
- Caster-wheel. E. Mowry. No. 1,395,449; Nov. 1.
- Caster-wheel and making same. C. W. Millet. No. 1,397,171; Nov. 15.
- Casting. S. Lake. No. 1,374,855; Apr. 12; v. 285; p. 326.
- Casting. W. Leahy. No. 1,386,516; Aug. 2; v. 289; p. 108.
- Casting and assembling types, leads, rules, &c., Machine for. S. A. Bisey. No. 1,364,235; Jan. 4; v. 282; p. 36.
- Casting and mold therefor. A. Rautenbach. No. 1,396,341; Nov. 8.
- Casting and producing same, Hollow. J. H. Emery. No. 1,373,121; Mar. 29; v. 284; p. 853.
- Casting and treating castings and the like. F. K. Bezenberger and M. N. Rich. No. 1,383,517; July 5; v. 288; p. 53.
- Casting apparatus. C. E. Chapple. No. 1,385,201; July 19; v. 288; p. 533.
- Casting apparatus. R. Gutmueller. No. 1,393,216; Oct. 11.
- Casting apparatus. F. R. Steven. No. 1,364,901; Jan. 11; v. 282; p. 209.
- Casting, Apparatus and method for. C. W. Van Ranst. No. 1,385,595; July 26; v. 288; p. 689.
- Casting, Hollow. H. and J. Hoffer. No. 1,394,553; Oct. 25.
- Casting ingots. F. E. McKenna. No. 1,387,792; Aug. 16; v. 289; p. 488.
- Casting-machine. J. E. Burns. No. 1,373,794; Apr. 5; v. 285; p. 80.
- Casting-machine. A. Collignon. No. 1,366,875; Jan. 25; v. 282; p. 678.
- Casting-machine. A. A. Landon. No. 1,367,059; Feb. 1; v. 283; p. 35.
- Casting-machine. J. Mayer-Oaks. No. 1,369,455; Feb. 22; v. 283; p. 646.
- Casting-machine, Centrifugal. C. F. Bloom. No. 1,400,857; Dec. 20.
- Casting-machine, Electrically-operated centrifugal. H. G. Eynon. No. 1,385,781; July 26; v. 288; p. 727.
- Casting machines, Apparatus for coating pig-metal. W. T. Hurst. No. 1,384,760; July 19; v. 288; p. 442.
- Casting-machines, Controlling mechanism for rotary. A. A. Landon. No. 1,383,729; July 5; v. 288; p. 98.
- Casting-machines, Locking mechanism for rotary. A. A. Landon. No. 1,398,134; Nov. 22.
- Casting metal products, Apparatus and method for. A. R. Rowe. No. 1,399,798; Dec. 13.
- Casting metals and other materials under an explosive-like pressure into molds, Process and device for. H. Talla. No. 1,372,843; Mar. 29; v. 284; p. 798.
- Casting metals, Machine for. R. W. Thompson. No. 1,377,372; May 10; v. 286; p. 247.
- Casting, Method of and apparatus for. W. P. Cunningham. No. 1,372,673; Mar. 29; v. 284; p. 764.
- Casting, Preparing steel for. J. B. McGlynn. No. 1,394,103; Oct. 18.
- Casting, Rotary. D. S. de Lavaud. No. 1,377,406; May 10; v. 286; p. 253.
- Casting, Rotary. D. S. de Lavaud. No. 1,398,008; Nov. 22.
- Casting, Tank-base. J. H. Masters. No. 1,366,538; Jan. 25; v. 282; p. 611.
- Castings, Mold for plural. J. G. Webb. No. 1,389,722; Sept. 6; v. 290; p. 33.
- Castings, Producing hollow. A. H. Emery. No. 1,391,675; Sept. 27; v. 290; p. 654.
- Castings, Treating. A. B. Norton. No. 1,384,033; July 5; v. 288; p. 160.
- Catalogues or specimen-books, Insert for. N. P. Moses. No. 1,368,043; Feb. 8; v. 283; p. 284.
- Catalysis. E. W. Stevens. No. 1,374,119; Apr. 5; v. 285; p. 144.
- Catalysis, Apparatus for. A. A. Backhaus. No. 1,396,718; Nov. 8.
- Catalysis, Apparatus for heating by. R. Camell, L. Cochet, and J. Gritte. No. 1,396,809; Nov. 15.
- Catalysis, Appliance for heating by. R. Camell, L. Cochet, and J. Gritte. No. 1,379,742; May 31; v. 286; p. 897.
- Catalyst and making same. C. Bosch, O. Schmidt, and A. Mittasch. No. 1,391,666; Sept. 27; v. 290; p. 652.
- Catalyst, Making a. A. L. Davis and K. D. Jacob. No. 1,386,555; Aug. 2; v. 289; p. 115.
- Catalyst masses, Utilization of. W. Hoskins. No. 1,381,558; June 14; v. 287; p. 286.
- Catalysts, Production of. C. B. Cluff. No. 1,381,969; June 21; v. 287; p. 424.
- Catalytic agents for reduction or hydrogenation purposes, Producing. H. Radisson and P. Berthon. No. 1,377,158; May 3; v. 286; p. 148.
- Catalytic material and making the same. A. A. Backhaus. No. 1,372,736; Mar. 29; v. 284; p. 777.
- Catalytic material, Making. S. Drucker and W. Sleck, Jr. No. 1,375,368; Apr. 19; v. 285; p. 487.
- Catalytic material, Regenerating. C. Ellis. No. 1,390,684; Sept. 13; v. 290; p. 319.
- Catalytic oxidation of fluorene. J. M. Weiss and C. R. Downs. No. 1,374,695; Apr. 12; v. 285; p. 296.
- Catalytic oxidation of naphthalene. C. R. Downs. No. 1,374,722; Apr. 12; v. 285; p. 301.
- Catalyzer. A. A. Backhaus. No. 1,400,203; Dec. 13.
- Catalyzer. A. A. Backhaus and F. B. Arentz. No. 1,376,665; May 3; v. 286; p. 54.
- Catalyzer and catalyzer apparatus. A. A. Backhaus. No. 1,400,204; Dec. 13.
- Catalyzer and producing same. C. Ellis. No. 1,378,337; May 17; v. 286; p. 483.
- Catalyzer apparatus. W. F. Cochrane. No. 1,396,358; Nov. 8.
- Catalyzer apparatus. W. C. Whitaker. No. 1,396,389; Nov. 8.
- Catalyzer for oil-hardening and making. C. Ellis. No. 1,378,338; May 17; v. 286; p. 483.
- Catalyzer from oil, Removing. C. Ellis. No. 1,390,688; Sept. 13; v. 290; p. 319.



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- Catalyzers, Making. C. Ellis. No. 1,378,336; May 17; v. 286; p. 482.
- Catalyzers, Making. C. Ellis. No. 1,390,683; Sept. 13; v. 290; p. 319.
- Catalyzers, Making. C. Ellis. No. 1,390,685; Sept. 13; v. 290; p. 319.
- Catalyzers, Producing. A. A. Backhaus. No. 1,375,345; Apr. 19; v. 285; p. 483.
- Catalyzers, Producing. J. A. Steffens. No. 1,400,247; Dec. 13.
- Catamenial sacks or napkins, Supporter of. G. B. Smith. No. 1,388,529; Aug. 23; v. 289; p. 690.
- Catapult. A. Carrino. No. 1,384,046; July 12; v. 288; p. 213.
- Catapult. C. H. Napier. No. 1,374,757; Apr. 12; v. 285; p. 307.
- Catch. J. S. Isidor. No. 1,371,422; Mar. 15; v. 284; p. 427.
- Catch and lock, Spring. W. C. Reisch. No. 1,380,158; May 31; v. 286; p. 975.
- Catch and release device, Automatic grab. J. G. Myers. No. 1,368,647; Feb. 15; v. 283; p. 450.
- Catch, Safety-. J. Fielding. No. 1,373,124; Mar. 29; v. 284; p. 854.
- Catch, Safety-. J. Fielding. No. 1,373,125; Mar. 29; v. 284; p. 854.
- Catch, Safety-. J. Fielding. No. 1,382,635; June 28; v. 287; p. 603.
- Catch, Safety-. F. Hodson. No. 1,381,555; June 14; v. 287; p. 286.
- Catch, Safety-. M. H. Le Marr. No. 1,379,110; May 24; v. 286; p. 703.
- Catch, Safety-. L. A. Page. No. 1,376,899; May 3; v. 286; p. 99.
- Catch, Safety-. A. T. Wall. No. 1,384,983; July 19; v. 288; p. 488.
- Catch, Window safety-. E. Cookingham. No. 1,366,245; Jan. 18; v. 282; p. 509.
- Cathode apparatus, Incandescent. W. D. Coolidge and E. A. Wagner. No. 1,394,144; Oct. 18.
- Cathode for auditors. S. S. Torrisi. No. 1,368,438; Feb. 15; v. 283; p. 438.
- Catsup-cap. C. Hammer. No. 1,367,253; Feb. 1; v. 283; p. 74.
- Catsup-cap. C. Hammer. No. 1,367,812; Feb. 8; v. 283; p. 241.
- Cattle, Apparatus for skinning. W. S. Callery. No. 1,377,872; May 10; v. 286; p. 342.
- Cattle-guard. G. H. Bishop. No. 1,397,752; Nov. 22.
- Cattle-guard. M. Schaff. No. 1,384,860; July 19; v. 288; p. 463.
- Cattle-guard, Railway. H. L. Fountain. No. 1,364,363; Jan. 4; v. 282; p. 61.
- Cattle-mark. E. Delay. No. 1,390,342; Sept. 13; v. 290; p. 249.
- Cautery-electrode. R. H. Wappler. No. 1,366,756; Jan. 25; v. 282; p. 655.
- Cautery, Sterilizable. W. A. Winter and L. Day. No. 1,366,231; Jan. 18; v. 282; p. 507.
- Caviar and making and preserving the same, Red. M. P. Vucassovich. No. 1,388,982; Aug. 30; v. 289; p. 834.
- Cedar shavings, Container for. J. E. Tracy. No. 1,368,861; Feb. 15; v. 283; p. 492.
- Ceiling, Metal. W. H. Klauer. No. 1,400,882; Dec. 20.
- Ceilings, Construction of. T. Culshaw. No. 1,394,714; Oct. 25.
- Cell and manufacturing the same, Dry. W. B. Schulte. No. 1,370,054; Mar. 1; v. 284; p. 57.
- Cell and manufacturing the same, Dry. W. B. Schulte. No. 1,370,055; Mar. 1; v. 284; p. 57.
- Cell can, Dry-. H. W. Jones. No. 1,387,928; Aug. 16; v. 289; p. 514.
- Cell, Dry. H. de Olaneta. No. 1,398,366; Nov. 29.
- Cell, Dry. A. W. Schorger. No. 1,370,052; Mar. 1; v. 284; p. 56.
- Cell, Electrolytic. J. Cranston and W. D. Le Bar. No. 1,398,784; Nov. 29.
- Cell linings, Apparatus for pasting dry-. L. E. Williams, Sr., and F. A. Adamski. No. 1,366,046; Jan. 18; v. 282; p. 470.
- Cell, Primary. P. B. Hyde. No. 1,369,813; Mar. 1; v. 284; p. 12.
- Cell, Standard. C. J. Rottmann. No. 1,379,698; May 31; v. 286; p. 889.
- Cellular forms, Apparatus for assembling. P. Kucera. No. 1,374,454; Apr. 12; v. 285; p. 249.
- Cellular material, Producing. K. H. Fulton. No. 1,385,044; July 19; v. 288; p. 500.
- Cellular-sheet display. W. M. Carter. No. 1,368,483; Feb. 15; v. 283; p. 418.
- Celluloid. S. H. Wood. No. 1,364,342; Jan. 4; v. 282; p. 57.
- Celluloid, Surface-treating. A. H. Rosenthal. No. 1,372,088; Mar. 22; v. 284; p. 611.
- Cellulose acetate and the product thereof, Treating. G. W. Miles. No. 1,394,752; Oct. 25.
- Cellulose-acetate composition. A. F. Sulzer. No. 1,398,949; Nov. 29.
- Cellulose acetate, Manufacture of solutions, preparations, or compositions having a basis of. H. Dreyfus. No. 1,395,401; Nov. 1.
- Cellulose-acetate solution. G. W. Goerner. No. 1,384,188; July 12; v. 288; p. 242.
- Cellulose articles, Treating regenerated. A. D. Conley and E. C. Stillwell. No. 1,371,300; Mar. 15; v. 284; p. 402.
- Cellulose composition. W. T. Scheele. No. 1,379,699; May 31; v. 286; p. 889.
- Cellulose compound, Non-inflammable. W. G. Lindsay. No. 1,386,576; Aug. 2; v. 289; p. 119.
- Cellulose, Converting. R. A. Kocher. No. 1,374,928; Apr. 19; v. 285; p. 403.
- Cellulose derivatives, Treating materials with. J. J. Byers. No. 1,388,169; Aug. 23; v. 289; p. 617.
- Cellulose, Dissolving. I. Kitsee. No. 1,390,995; Sept. 20; v. 290; p. 443.
- Cellulose-ester composition. H. T. Clarke. No. 1,370,879; Mar. 8; v. 284; p. 259.
- Cellulose-ester composition. H. T. Clarke. No. 1,398,939; Nov. 29.
- Cellulose-ester solvent and resulting cellulosic composition. M. Y. Seaton. No. 1,397,986; Nov. 22.
- Cellulose esters, Making. M. E. Putnam. No. 1,396,878; Nov. 15.
- Cellulose esters, Manufacture of. J. Koetschet and M. Beudet. No. 1,389,250; Aug. 30; v. 289; p. 887.
- Cellulose ether composition. H. T. Clarke. No. 1,395,905; Nov. 1.
- Cellulose-ether solvent and composition. J. M. Donohue. No. 1,394,505; Oct. 18.
- Cellulose-nitrate composition. H. T. Clarke. No. 1,370,878; Mar. 8; v. 284; p. 259.
- Cellulose-nitrate composition. P. C. Seel. No. 1,379,596; May 24; v. 286; p. 795.
- Cellulose-nitrate composition and sheet. P. C. Seel, H. Combs, and R. Kemp. No. 1,380,258; May 31; v. 286; p. 993.
- Cellulose, Producing. C. A. Braun. No. 1,387,441; Aug. 9; v. 289; p. 366.
- Cellulose xanthogenate solutions and product produced, Making. L. Lilienfeld. No. 1,379,351; May 24; v. 286; p. 749.
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- Cement and by-products, Making. S. B. Newberry. No. 1,366,479; Jan. 25; v. 282; p. 599.
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- Cement body, Celluloid-coated. F. C. Ruppel. No. 1,379,837; May 31; v. 286; p. 915.
- Cement building. N. Frischmann. No. 1,375,788; Apr. 26; v. 285; p. 599.
- Cement, Curing. G. L. Smith. No. 1,374,403; Apr. 12; v. 285; p. 239.
- Cement, Heat-resisting. H. S. Ashenurst. No. 1,365,077; Jan. 11; v. 282; p. 242.
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- Cement, Manufacture of Keene's. W. Hoskins. No. 1,370,968; Mar. 8; v. 284; p. 275.
- Cement, Manufacturing of slow-setting. F. Ferrari. No. 1,372,015; Mar. 22; v. 284; p. 598.
- Cement, Manufacturing silicated. S. Matsuo. No. 1,367,984; Feb. 8; v. 283; p. 273.
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- Cement or like material, Machine for manufacturing slabs or the like of. L. Baumgartl. No. 1,367,227; Feb. 1; v. 283; p. 69.
- Cement process and product, Dry. J. L. Tufts. No. 1,386,914; Aug. 9; v. 289; p. 261.
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- Cement tie and rail-fastener. A. L. Crane. No. 1,373,601; Apr. 5; v. 285; p. 43.
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- Cementing apparatus. J. W. Cosgrove. No. 1,377,319; May 10; v. 286; p. 236.
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- Cementitious composition, Making a. G. M. Formby. No. 1,379,680; May 31; v. 286; p. 885.
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- Cementitious products, Method and machine for making. A. O. Crozier. No. 1,385,863; July 26; v. 288; p. 744.
- Cementitious products, Machine and method of making. A. O. Crozier. No. 1,385,864; July 26; v. 288; p. 744.
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- Center-finder. G. W. Harris. No. 1,370,311; Mar. 1; v. 284; p. 105.
- Center-finder and punch. J. Shaylor. No. 1,378,287; May 17; v. 286; p. 474.
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- Centrifugal apparatus. C. P. Landreth. No. 1,383,313; July 5; v. 288; p. 11.
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- Centrifugal formation of plastic bodies, Machine for. H. Barkschat. No. 1,391,164; Sept. 20; v. 290; p. 477.
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- Centrifugal machines, Drive for gyrotory. E. Roberts. No. 1,383,567; July 5; v. 288; p. 63.
- Centrifugal machines, Driving electric. E. D. Mackintosh. (Reissue.) No. 15,115; May 31; v. 286; p. 1009.
- Centrifugal machines, Driving-mount for the bowls of. J. J. Hay. No. 1,388,339; Aug. 23; v. 289; p. 652.
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- Centrifugal machines, Yieldable bearing for. M. Leitch. No. 1,387,158; Aug. 9; v. 289; p. 309.
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- Centrifugal regulating device. W. M. Fulton. No. 1,392,890; Oct. 4.
- Centrifugal separation. E. W. Beach. No. 1,373,219; Mar. 29; v. 284; p. 874.
- Centrifugal separation, Method of and machinery for. W. H. Peck. No. 1,374,098; Apr. 5; v. 285; p. 140.
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- Centrifugal separator. F. H. Lindenberg. No. 1,395,193; Oct. 25.
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- Centrifugal separators, Centrifugal bowl for use on. N. H. Norris. No. 1,371,259; Mar. 15; v. 284; p. 394.
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- Centrifugally separating substances, Method and mechanism for. L. D. Jones. No. 1,373,743; Apr. 5; v. 285; p. 70.
- Centrifuge. F. Pechstein. No. 1,381,330; June 14; v. 287; p. 243.
- Ceramic bonded material, Shaping device for articles made of. P. Johanson and E. A. Francke. No. 1,376,773; May 3; v. 286; p. 74.
- Ceramic vessel. F. S. Lowry. No. 1,400,489; Dec. 13.
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- Chain. C. W. Gregory. No. 1,396,701; Nov. 8.
- Chain. G. L. Helwig. No. 1,372,689; Mar. 29; v. 284; p. 768.
- Chain. C. W. Hodges. No. 1,372,693; Mar. 29; v. 284; p. 768.
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- Chain. S. V. Tench. No. 1,381,519; June 14; v. 287; p. 278.
- Chain adapted as link-bracelet. T. Allsopp. No. 1,373,395; Apr. 5; v. 285; p. 3.
- Chain and fabric, Machine for making. M. C. Judson. No. 1,371,688; Mar. 15; v. 284; p. 479.
- Chain and pendant support for personal wear. H. A. Harver. No. 1,364,195; Jan. 4; v. 282; p. 29.
- Chain, Antiskid. U. S. Beam. No. 1,364,682; Jan. 4; v. 282; p. 122.
- Chain, Antiskid. F. C. Gray. No. 1,393,523; Oct. 11.
- Chain, Antiskid. R. Mestars. No. 1,400,896; Dec. 20.
- Chain, Antiskid. N. H. Nelson. No. 1,395,957; Oct. 25.
- Chain, Antiskid. J. M. Starr. No. 1,392,881; Oct. 4.
- Chain, Antiskid and mud. B. E. Bliss. No. 1,380,522; June 7; v. 287; p. 37.
- Chain, Apparatus for the manufacture of cast-steel. A. J. Bazeley. No. 1,365,650; Jan. 18; v. 282; p. 392.
- Chain-assembling machine. F. Müller. No. 1,365,940; Jan. 18; v. 282; p. 450.
- Chain-attaching device. M. Baker. No. 1,385,032; July 19; v. 288; p. 498.
- Chain-attaching device. F. P. Murphey and C. E. Bickel. No. 1,380,921; June 7; v. 287; p. 114.
- Chain, Auto traction. D. Deruiseaux and F. S. Capron. No. 1,398,009; Nov. 22.
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- Chain-clasp. R. G. Grode. No. 1,375,090; Apr. 19; v. 285; p. 434.
- Chain connection. A. P. Griffin. No. 1,394,618; Oct. 25.
- Chain-connector. T. W. Olson and A. Iverson. No. 1,386,273; Aug. 2; v. 289; p. 62.
- Chain construction. J. E. McBride. No. 1,380,916; June 7; v. 287; p. 113.
- Chain, Conveyor. L. Lomando. No. 1,373,010; Mar. 29; v. 284; p. 832.
- Chain, Coupling. E. Seignol. No. 1,401,194; Dec. 27.
- Chain, Cutting. C. J. Kienzie. No. 1,375,638; Apr. 19; v. 285; p. 539.
- Chain, Cutting. F. Smith. No. 1,376,120; Apr. 26; v. 285; p. 663.
- Chain device, Non-skid. W. Chirpe and C. H. Lundgren. No. 1,364,714; Jan. 4; v. 282; p. 129.
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- Chain-fastener. A. L. Keltner. No. 1,374,579; Apr. 12; v. 285; p. 274.
- Chain-fastener. J. M. Watkins and F. Anderson. No. 1,389,464; Aug. 30; v. 289; p. 929.
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- Chain fastener and tightener. F. M. Trimble. No. 1,399,589; Dec. 6.
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- Chain fastener, Skid. C. M. Whitehead. No. 1,373,281; Mar. 29; v. 284; p. 886.
- Chain-fastening device. C. J. Garvey. No. 1,401,067; Dec. 20.
- Chain, Feeding. F. H. Clement. No. 1,371,968; Mar. 15; v. 284; p. 532.
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- Chain-grate construction. P. H. McKenzie. No. 1,376,449; May 3; v. 286; p. 14.
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- Chain-hook, Detachable. J. G. Rieff. No. 1,388,305; Aug. 23; v. 289; p. 646.
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- Chain-link. F. G. Hodell. No. 1,368,437; Feb. 15; v. 283; p. 409.
- Chain, Link. E. F. Wiederholdt. No. 1,382,703; June 28; v. 287; p. 617.
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- Chain-links, Apparatus for making. C. Robertson and L. Laupot. No. 1,393,041; Oct. 11.
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- Chain-links, Manufacture of cast-steel. A. T. Dexter. No. 1,365,772; Jan. 18; v. 282; p. 417.
- Chain, Manufacture of cast-steel. A. T. Dexter. No. 1,365,771; Jan. 18; v. 282; p. 417.
- Chain, Manufacture of cast-steel. L. Fawcett. No. 1,365,672; Jan. 18; v. 282; p. 397.
- Chain, Manufacture of cast-steel. F. Knadler. No. 1,365,702; Jan. 18; v. 282; p. 403.
- Chain, Mud-. G. H. Slawson. No. 1,372,373; Mar. 22; v. 284; p. 666.



*Alphabetical list of inventions—Continued.*

- Chain, Mud-. N. R. White. No. 1,390,411; Sept. 13; v. 290; p. 262.
- Chain, Non-skid. M. B. Ryan. No. 1,400,320; Dec. 13.
- Chain-pins, Lubricating device for. R. C. Newhouse. No. 1,385,968; July 26; v. 288; p. 764.
- Chain pipe-wrench. G. L. Albert, E. H. Allen, and A. Armstrong. No. 1,364,064; Jan. 4; v. 282; p. 3.
- Chain placer and remover, Automatic antiskid-. H. C. Janzen. No. 1,376,771; May 3; v. 286; p. 74.
- Chain-repair tool. H. Mathis. No. 1,398,876; Nov. 29.
- Chain, Safety-. J. J. Schneider. No. 1,398,803; Nov. 29.
- Chain, Separable-link. J. C. Law. No. 1,397,131; Nov. 15.
- Chain-shackle. A. S. Remsburg. No. 1,393,568; Oct. 11.
- Chain, Single-bar heavy-duty. J. C. Law. No. 1,366,126; Jan. 18; v. 282; p. 486.
- Chain-tightener. P. M. Quint. No. 1,392,221; Sept. 27; v. 290; p. 764.
- Chain-tightener. F. J. Rayfield. No. 1,373,386; Mar. 29; v. 284; p. 906.
- Chain tightener and adjuster, Non-skid-. W. I. Harp. No. 1,378,027; May 17; v. 286; p. 424.
- Chain tightener, Skid-. E. L. Hill. No. 1,390,613; Sept. 13; v. 290; p. 304.
- Chain tightening and releasing device. E. Green. No. 1,398,548; Nov. 29.
- Chain-tightening lever. W. B. Smith. No. 1,395,605; Nov. 1.
- Chain to objects, Ring used in connection with animal-traps for fastening end of. L. C. Lunt. No. 1,376,892; May 3; v. 286; p. 98.
- Chain-tracks, Upper-run support for. B. Holt. No. 1,394,995; Oct. 25.
- Chain, Traction-. J. P. Wasson, L. A. Wood, and N. Nelson. No. 1,364,467; Jan. 4; v. 282; p. 82.
- Chain, Trunk-. C. K. Matthews. No. 1,380,727; June 7; v. 287; p. 77.
- Chain wrench. R. C. Miller. No. 1,373,255; Mar. 20; v. 284; p. 881.
- Chain wrench. C. S. Wright. No. 1,400,398; Dec. 13.
- Chains, Anchor-yoke for non-skid-. W. N. Sleicher. No. 1,367,209; Feb. 1; v. 283; p. 65.
- Chains, Attaching means for antiskid. L. C. Caisley. No. 1,365,088; Jan. 11; v. 282; p. 244.
- Chains, Attaching means for antiskidding. G. H. and E. R. Ebert. No. 1,393,099; Oct. 11.
- Chains, Connector-link for. W. A. Brown. No. 1,390,877; Sept. 13; v. 290; p. 356.
- Chains, Coupling for. F. W. Ziemendorf. No. 1,383,898; July 5; v. 288; p. 132.
- Chains, Device for applying antiskid. W. H. Rounds. No. 1,372,195; Mar. 22; v. 284; p. 631.
- Chains, Fastening attachment for skid-. H. Whiteside. No. 1,369,950; Mar. 1; v. 284; p. 37.
- Chains, Fastening device for traction-. P. E. Daubenspeck. No. 1,367,241; Feb. 1; v. 283; p. 71.
- Chains, Guide for drive-. H. G. Johnston. No. 1,378,795; May 17; v. 286; p. 571.
- Chains, Insulating unit for electrical suspension-. L. E. T. Perrin. No. 1,391,576; Sept. 20; v. 290; p. 561.
- Chains, Link connection for traction-. P. E. Daubenspeck. No. 1,373,172; Mar. 29; v. 284; p. 865.
- Chains, Lock for cross-. W. H. Cook. No. 1,379,968; May 31; v. 286; p. 939.
- Chains, Making cast. R. R. Rüst. No. 1,398,706; Nov. 29.
- Chains, Making weldless. J. F. Craven. No. 1,368,122; Feb. 8; v. 283; p. 299.
- Chains of electric fixtures, Fastening means for the suspension-. A. C. Recker. No. 1,396,463; Nov. 8.
- Chains to wheels in motion, Device for applying. H. G. Dorsey. No. 1,399,700; Dec. 6.
- Chains while repairing the same, Clamp for holding drive-. S. H. Gaimor. No. 1,373,230; Mar. 29; v. 284; p. 876.
- Chair- See—
- Adjustable chair.
- Anti-creeping rail-chair.
- Barber's chair.
- Bath-chair.
- Child's chair.
- Collapsible chair.
- Convertible chair.
- Desk-chair.
- Foldable toilet-chair.
- Folding chair.
- Guard-rail chair.
- High chair.
- Hunter's chair.
- Invalid-chair.
- Knockdown chair.
- Lineman's safety-chair.
- Musical rocking-chair.
- Nursery-chair.
- Opera-chair.
- Rail-chair.
- Rail-guard chair.
- Rail-joint chair.
- Reclining-chair.
- Rocking-chair.
- Rolling chair.
- Separable chair.
- Study-chair.
- Swiveled chair.
- Tray-chair.
- Chair, H. A. Atwood. No. 1,368,469; Feb. 15; v. 283; p. 416.
- Chair, K. Buchberger. No. 1,372,061; Mar. 22; v. 284; p. 606.
- Chair, G. F. Cluff, Jr. No. 1,364,181; Jan. 4; v. 282; p. 26.
- Chair, S. Herzog. No. 1,377,773; May 10; v. 286; p. 323.
- Chair, F. D. Hunt. No. 1,399,623; Dec. 6.
- Chair, C. Jelinek and D. Stern. No. 1,379,263; May 24; v. 286; p. 732.
- Chair, J. B. Noggle. No. 1,389,317; Aug. 30; v. 289; p. 900.
- Chair, J. H. Offerman and K. Oberhuber. No. 1,371,516; Mar. 15; v. 284; p. 445.
- Chair, E. Thompson. No. 1,375,868; Apr. 26; v. 285; p. 614.
- Chair, L. Van Fleet. No. 1,391,222; Sept. 20; v. 290; p. 489.
- Chair, R. Wagner. No. 1,375,337; Apr. 19; v. 285; p. 482.
- Chair and bed, Folding. F. Blando. No. 1,398,253; Nov. 29.
- Chair and cot, Combination. J. L. White. No. 1,378,505; May 17; v. 286; p. 515.
- Chair and cradle, Combined high. M. J. Orth. No. 1,366,274; Jan. 18; v. 282; p. 515.
- Chair and spacer. J. T. Simpson. No. 1,365,126; Jan. 11; v. 282; p. 252.
- Chairs and the like, Attachment for. W. H. Weber. No. 1,365,136; Jan. 11; v. 282; p. 254.
- Chair attachment. L. D. Dennis. No. 1,375,573; Apr. 19; v. 285; p. 526.
- Chair attachment. W. H. Weber. No. 1,401,019; Dec. 20.
- Chair attachment, Rocking-. A. Zubryd. No. 1,401,229; Dec. 27.
- Chair-back and picture-frame therefor. B. G. Schomacker. No. 1,395,153; Oct. 25.
- Chair-backs and the like, Spring for. E. E. Graff and C. M. Fisher. No. 1,394,005; Oct. 18.
- Chair-base. O. H. Hansen. No. 1,385,348; July 19; v. 288; p. 562.
- Chair-base, Interlocking. T. W. Foote. No. 1,401,330; Dec. 27.
- Chair, Child's. B. O. Gunderson. No. 1,387,049; Aug. 9; v. 289; p. 288.
- Chair, Collapsible. A. Mocha. No. 1,401,272; Dec. 27.
- Chair, Combination-. Y. W. Rogers. No. 1,381,338; June 14; v. 287; p. 245.
- Chair, foot-rest. J. F. Walton. No. 1,386,819; Aug. 9; v. 289; p. 242.
- Chair for infirm people. S. Stevens. No. 1,379,943; May 31; v. 286; p. 934.
- Chair-iron. D. R. Collier. No. 1,389,186; Aug. 30; v. 289; p. 874.
- Chair-iron. D. R. Collier. No. 1,399,464; Dec. 6.
- Chair-iron. D. R. Collier. No. 1,399,466; Dec. 6.
- Chair-iron. H. G. Hunn. No. 1,368,726; Feb. 15; v. 283; p. 466.
- Chair-mat. M. Blumenthal. No. 1,379,958; May 31; v. 286; p. 937.
- Chair or the like. S. Gage. No. 1,390,525; Sept. 13; v. 290; p. 285.
- Chair, Reclining-. R. E. Malone. No. 1,371,209; Mar. 8; v. 284; p. 321.
- Chair-rocker. J. K. Hinson. No. 1,367,390; Feb. 1; v. 283; p. 101.
- Chair-tip. A. D. Variell. No. 1,378,738; May 17; v. 286; p. 560.
- Chairs, Adjustable child's seat for barber-. I. A. Johnson. No. 1,368,502; Feb. 15; v. 283; p. 480.
- Chairs, Center hub for revolving. R. K. Dawson. No. 1,379,969; May 31; v. 286; p. 939.
- Chairs for babies, Attachment for high. T. V. Finney. No. 1,391,249; Sept. 20; v. 290; p. 495.
- Chairs, Headrest for. C. W. Fertig and A. J. May. No. 1,396,175; Nov. 8.
- Chairs or the like, Seat-raising attachment for theater-. G. I. Park. No. 1,374,467; Apr. 12; v. 285; p. 252.
- Chairs, Paper head-rest for. D. C. Baker. No. 1,372,989; Mar. 29; v. 284; p. 829.
- Chairs, Safety appliance for high. G. A. Johnston. No. 1,376,625; May 3; v. 286; p. 47.
- Chairs, Spring device for. H. A. Parr. No. 1,396,661; Nov. 8.
- Chairs, Wardrobe attachment for. A. C. Heaphy. No. 1,375,047; Apr. 19; v. 285; p. 426.
- Chalk-cup. C. R. Brown. No. 1,371,850; Mar. 15; v. 284; p. 509.
- Chamber-head. C. S. Chrisman. No. 1,374,490; Apr. 12; v. 285; p. 256.
- Chandelier, Electric-light. S. M. Israel. No. 1,389,831; Sept. 6; v. 290; p. 55.
- Chandelier fixture, Electric. W. A. Harvey. No. 1,380,144; May 31; v. 286; p. 973.
- Change-handling device. J. Kopecky. No. 1,372,356; Mar. 22; v. 284; p. 663.
- Change-maker. M. C. Bruhn and G. F. McGill. No. 1,385,360; July 26; v. 288; p. 641.
- Change-maker. G. F. McGill. No. 1,398,299; Nov. 29.
- Change-maker, Portable. G. F. McGill and M. C. Bruhn. No. 1,385,382; July 26; v. 288; p. 645.
- Change-maker, Selective. M. C. Bruhn and G. F. McGill. No. 1,385,359; July 26; v. 288; p. 640.
- Change-making machine. G. J. Brockhagen. No. 1,393,424; Oct. 11.
- Change-making machine. M. H. Mandelbaum and B. R. Webster. No. 1,376,960; May 3; v. 286; p. 111.
- Change-making machine, Selective. J. E. Lewis. No. 1,392,691; Oct. 4.
- Change-speed and reversing gearing. W. B. Oriel. No. 1,401,636; Dec. 27.
- Change-speed device. C. A. Cambay. No. 1,373,715; Apr. 5; v. 285; p. 55.
- Change-speed gearing. W. W. Wilson and J. L. Perry. No. 1,372,384; Mar. 22; v. 284; p. 668.
- Change-speed mechanism. A. Boerner. No. 1,372,268; Mar. 22; v. 284; p. 646.



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- Change-speed mechanism. W. C. Carr. No. 1,388,324; Aug. 23; v. 289; p. 650.
- Change-speed mechanism. W. Kessler. No. 1,401,538; Dec. 27.
- Change-speed mechanism. H. E. Lindblad. No. 1,387,786; Aug. 16; v. 289; p. 487.
- Change-tray and advertising device. E. Brunhoff. No. 1,369,912; Mar. 1; v. 284; p. 30.
- Changeable indicator. C. Talotta. No. 1,394,234; Oct. 18.
- Channel-brick. A. Hardoncourt, Jr. No. 1,373,238; Mar. 29; v. 284; p. 878.
- Channel-iron and anchor. L. P. Wentzell. No. 1,395,070; Oct. 25.
- Charcoal-burning apparatus. W. H. McGee. No. 1,387,060; Aug. 9; v. 289; p. 290.
- Charcoal. Machine for preparing green wood for making. H. J. Haber. No. 1,372,136; Mar. 22; v. 284; p. 620.
- Charcoal, &c., Process and apparatus for producing. J. S. Pearce. No. 1,395,866; Nov. 1.
- Charcoal. Producing dense. L. F. Hawley. No. 1,369,428; Feb. 22; v. 283; p. 641.
- Charcoal. Producing dense absorbent. L. F. Hawley. No. 1,385,826; July 26; v. 288; p. 736.
- Charge forming and positioning apparatus. M. Fogde and L. P. Southwick. No. 1,401,687; Dec. 27.
- Charge. Forming. bursting. C. A. Woodbury. No. 1,382,260; June 21; v. 287; p. 478.
- Charging device. R. S. Richards. No. 1,398,649; Nov. 29.
- Chart. J. E. McDade. No. 1,401,341; Dec. 27.
- Chart. Advertising. J. P. Day. No. 1,374,365; Apr. 12; v. 285; p. 231.
- Chart. Fan. H. F. Hagen. No. 1,378,107; May 17; v. 286; p. 439.
- Chart. Fixation and astigmatic. N. A. Shigon. No. 1,369,136; Feb. 22; v. 283; p. 584.
- Chart holder. Educational. G. W. Lewis. No. 1,371,102; Mar. 8; v. 284; p. 301.
- Chart. Musical. B. von Rague. No. 1,384,172; July 12; v. 288; p. 239.
- Chart. Overtime. R. T. Anderson. No. 1,400,652; Dec. 20.
- Chart. Terminal-transfer-cost. E. C. Taylor. No. 1,369,852; Mar. 1; v. 284; p. 19.
- Chart. Territorial business. G. M. Ludlow. No. 1,395,848; Nov. 1.
- Chasing-machine. J. C. Wahl. No. 1,395,311; Nov. 1.
- Check. D. M. Dickinson. No. 1,383,792; July 5; v. 288; p. 111.
- Check. W. A. Patton. No. 1,367,754; Feb. 8; v. 283; p. 230.
- Check-actuated machines. Check-detector for. A. D. Antoine and C. C. Travis. No. 1,372,666; Mar. 29; v. 284; p. 763.
- Check and receipt service. A. N. E. Boos. No. 1,393,489; Oct. 11.
- Check and voucher holder. R. H. Gay. No. 1,377,415; May 10; v. 286; p. 255.
- Check. Baggage. J. S. Bloodworth. No. 1,367,531; Feb. 8; v. 283; p. 187.
- Check. Bank. C. E. Mayne. No. 1,368,518; Feb. 15; v. 283; p. 425.
- Check-book. W. H. W. Hamilton. No. 1,398,508; Nov. 29.
- Check-controlled machine. A. D. Antoine and C. C. Travis. No. 1,370,578; Mar. 8; v. 284; p. 201.
- Check. Convertible interest-bearing savings. G. H. Banks. No. 1,380,762; June 7; v. 287; p. 83.
- Check-dispensing machine. D. L. Munro. No. 1,367,667; Feb. 8; v. 283; p. 213.
- Check-hinge. E. Franckaerts. (Reissue.) No. 15,082; Apr. 12; v. 285; p. 335.
- Check-holder. C. E. Bell. No. 1,396,499; Nov. 8.
- Check-holder. H. Bock. No. 1,382,167; June 21; v. 287; p. 460.
- Check holder and notch. W. H. Sawyer and A. C. Boyd. No. 1,395,736; Nov. 1.
- Check holder and notch. Sales. W. H. Sawyer. No. 1,379,217; May 24; v. 286; p. 724.
- Check holder and notcher therefor. Sales. W. H. Sawyer. No. 1,399,887; Dec. 13.
- Check holder and notching device. J. S. Arcus. No. 1,368,995; Feb. 22; v. 283; p. 557.
- Check-protecting method. A. F. Bradshaw. No. 1,395,943; Nov. 1.
- Check holder. Sales. R. E. Beaubien. No. 1,368,999; Feb. 22; v. 283; p. 557.
- Check holder. Sales. R. J. Krauthelm. No. 1,382,198; June 21; v. 287; p. 466.
- Check-lock. J. C. Backus. No. 1,373,112; Mar. 29; v. 284; p. 852.
- Check or ticket perforating device. G. J. Gruenberger. No. 1,366,793; Jan. 25; v. 282; p. 662.
- Check printing and scarfing machine. J. Whitaker. No. 1,377,040; May 3; v. 286; p. 126.
- Check-printing machine. F. Montrose. No. 1,384,708; July 12; v. 288; p. 351.
- Check-protector. C. A. Appel, Jr. No. 1,384,584; July 12; v. 288; p. 324.
- Check-protector. V. A. Boker. No. 1,385,168; July 19; v. 288; p. 527.
- Check-protector. W. M. Dwyer. No. 1,376,611; May 3; v. 286; p. 44.
- Check-protector. O. R. Jones. No. 1,390,620; Sept. 13; v. 290; p. 305.
- Check-protector. F. E. McAllister. No. 1,401,168; Dec. 27.
- Check-protector. J. J. O'Brien. No. 1,389,377; Aug. 30; v. 289; p. 913.
- Check-protector. F. E. Rothe. No. 1,386,535; Aug. 2; v. 289; p. 111.
- Check-protector. O. J. Sundstrand. No. 1,378,496; May 17; v. 286; p. 513.
- Check-protector. C. G. Tiefel. No. 1,372,323; Mar. 22; v. 284; p. 657.
- Check-protector. A. C. Woodruff. No. 1,377,651; May 10; v. 286; p. 299.
- Check-protector. Pocket. O. K. Linscott. No. 1,398,235; Nov. 29.
- Check-protector. Pocket. F. A. Wiegman. No. 1,373,545; Apr. 5; v. 285; p. 32.
- Check-protector. Vest-pocket. L. C. Edwards. No. 1,399,703; Dec. 6.
- Check. receipt and record. Combination. A. V. Fry. No. 1,385,321; July 19; v. 288; p. 556.
- Check. Receiving-account. J. Riis. No. 1,378,422; May 17; v. 286; p. 499.
- Check. Safety. J. Koffend, Sr. No. 1,388,049; Aug. 16; v. 289; p. 537.
- Check. Safety. P. C. Longmessaer. No. 1,390,959; Sept. 13; v. 290; p. 374.
- Check. Store coupon. F. G. Lindsay. No. 1,379,455; May 24; v. 286; p. 768.
- Check. Store-service. H. A. Dorr. No. 1,379,002; May 24; v. 286; p. 683.
- Check-writer. B. O. Fanslow. No. 1,368,912; Feb. 15; v. 283; p. 502.
- Check-writer. A. C. La May. No. 1,364,941; Jan. 11; v. 282; p. 217.
- Check-writer. W. B. Payne. No. 1,389,214; Aug. 30; v. 289; p. 880.
- Check-writer. W. B. Payne. No. 1,389,215; Aug. 30; v. 289; p. 880.
- Check-writer. H. H. Steel. Nos. 1,400,574-5; Dec. 20.
- Check-writer. C. G. Tiefel. No. 1,386,383; Aug. 2; v. 289; p. 82.
- Check-writer. C. G. Tiefel. No. 1,397,118; Nov. 15.
- Check-writer. L. M. Todd. No. 1,364,963; Jan. 11; v. 282; p. 221.
- Check-writer. W. Uhl. No. 1,379,425; May 24; v. 286; p. 763.
- Check-writer. C. Wendelken. No. 1,382,874; June 28; v. 287; p. 649.
- Check-writing machine. A. M. Ward. No. 1,386,479; Aug. 2; v. 289; p. 100.
- Checking device. G. W. McLean and E. J. Shur. No. 1,383,834; July 5; v. 288; p. 120.
- Checking device. Laundry. J. H. Todd. No. 1,399,906; Dec. 13.
- Checking-machine. F. R. Wainwright. No. 1,394,379; Oct. 18.
- Checker. H. L. Winslow. No. 1,399,453; Dec. 6.
- Checkerboard. C. Foss. No. 1,371,476; Mar. 15; v. 284; p. 438.
- Checkrein-holder. E. K. Clover. No. 1,399,463; Dec. 6.
- Cheese and sterilizing same. G. H. Garstin. No. 1,368,624; Feb. 15; v. 283; p. 446.
- Cheese and sterilizing the same. L. E. Carpenter and E. E. Eldredge. No. 1,389,577; Sept. 6; v. 290; p. 4.
- Cheese and sterilizing the same. Swiss. L. E. Carpenter and E. E. Eldredge. No. 1,389,095; Aug. 30; v. 289; p. 856.
- Cheese-box. E. Zeidler. No. 1,388,396; Aug. 23; v. 289; p. 664.
- Cheese-cutter. R. C. Gorham. No. 1,385,372; July 26; v. 288; p. 643.
- Cheese-cutter. I. S. Karraz and L. H. Bridwell. No. 1,366,808; Jan. 25; v. 282; p. 665.
- Cheese. Forming blocks of. N. Simon. No. 1,393,915; Oct. 18.
- Cheese-holder. A. J. Mensch. No. 1,393,950; Oct. 18.
- Cheese. Preparing. J. L. Kraft. No. 1,400,171; Dec. 13.
- Cheese-press. J. Gora. No. 1,392,143; Sept. 27; v. 290; p. 749.
- Cheese. Sterilizing. E. E. Eldredge. No. 1,374,141; Apr. 5; v. 285; p. 148.
- Chemical apparatus. R. V. Heuser. No. 1,395,641; Nov. 1.
- Chemical appliance. J. J. Porter. No. 1,401,185; Dec. 27.
- Chemical-heater. L. E. Eckelmann and G. E. Ferguson. No. 1,384,747; July 19; v. 288; p. 439.
- Chemical-heater. G. E. Ferguson. No. 1,385,074; July 19; v. 288; p. 507.
- Chemical heater. R. E. Kirtley. No. 1,365,501; Jan. 11; v. 282; p. 324.
- Chemical-mixing device. E. F. Mercer. No. 1,386,519; Aug. 2; v. 289; p. 108.
- Chemical reactions by catalysis. Process and apparatus for carrying out. J. Koetschet. No. 1,400,959; Dec. 20.
- Chemical reactions in an artificial atmosphere. Process and plant for industrially carrying out. M. C. J. Elisée de Loisy. No. 1,366,720; Jan. 25; v. 282; p. 647.
- Chemical reactions. Performing. W. O. Snelling. No. 1,397,609; Nov. 22.
- Chemicals. Feeding device for dry. L. M. Booth. No. 1,390,271; Sept. 13; v. 290; p. 235.
- Chenille or other machines. Pattern or color indicating mechanism for. C. Lea. No. 1,373,514; Apr. 5; v. 285; p. 27.
- Chenille-strip distribution. E. F. Hathaway. No. 1,392,939; Oct. 11.



- Cherry-picker. H. B. Kean. No. 1,364,766; Jan. 4; v. 282; p. 139.
- Cherry-pitting machine. C. H. Marshall. No. 1,390,804; Sept. 13; v. 290; p. 342.
- Cherry-seeder. R. Buck. No. 1,373,298; Mar. 29; v. 284; p. 889.
- Cherry-stemmer. C. E. Forry. No. 1,400,352; Dec. 13.
- Chessboard and the like, Revolving. G. L. T. Denniss. No. 1,374,139; Apr. 5; v. 285; p. 147.
- Chest: *See*—  
Tool-chest.
- Chick-box. W. C. Huber. No. 1,397,583; Nov. 22.
- Chicken-house. J. Meszaros. No. 1,367,416; Feb. 1; v. 283; p. 106.
- Child's play-table. E. G. Thomas. No. 1,377,860; May 10; v. 286; p. 340.
- Child's table. H. E. Richmond. No. 1,391,008; Sept. 20; v. 290; p. 446.
- Chill-mold. F. Cordes. No. 1,393,666; Oct. 11.
- Chime-hammers, Tension-adjuster for the springs of. W. J. Herschede and C. Cohan. No. 1,364,111; Jan. 4; v. 282; p. 12.
- Chime-operating apparatus. F. B. Little. No. 1,398,972; Dec. 6.
- Chimney cap or ventilator. A. F. Brassington. No. 1,380,882; June 7; v. 287; p. 107.
- Chimney-cleaner. J. B. Rork. No. 1,398,155; Nov. 22.
- Chimney-cleaner. J. G. Koudelka. No. 1,393,548; Oct. 11.
- Chimney for hot-blast stoves. F. H. Willcox. No. 1,387,528; Aug. 16; v. 289; p. 434.
- Chimney-protector. M. H. Downs. No. 1,370,199; Mar. 1; v. 284; p. 84.
- Chimney-top. W. W. Bickel and H. E. Brown. No. 1,390,269; Sept. 13; v. 290; p. 235.
- Chin-support. M. E. Brennan. No. 1,397,499; Nov. 22.
- Chinch-bug killer. J. A. Ferrings. No. 1,377,273; May 10; v. 286; p. 227.
- Chip-receptacle and producing same. E. S. Ensign. No. 1,390,517; Sept. 13; v. 290; p. 284.
- Chiropactic table. J. H. Lege. No. 1,395,646; Nov. 1.
- Chiropactic table. C. T. Lindholm. No. 1,380,487; June 7; v. 287; p. 31.
- Chiropactic table. W. B. Repert. No. 1,376,229; Apr. 26; v. 285; p. 684.
- Chiropactic table. C. H. Schreiner. No. 1,386,901; Aug. 9; v. 289; p. 259.
- Chiropactic table. W. G. Williams. No. 1,399,419; Dec. 6.
- Chisels, Protective device for. I. O. Torkelson. No. 1,370,933; Mar. 8; v. 284; p. 269.
- Chiseling implement, Centrifugal. O. Sperling. No. 1,370,767; Mar. 8; v. 284; p. 238.
- Chlorhydric, Manufacture of. W. E. Kirst. No. 1,386,118; Aug. 2; v. 289; p. 31.
- Chlorhydric, Making. B. T. Brooks. No. 1,394,664; Oct. 25.
- Chlorid, Manufacture or preparation of sulfuryl. T. H. Durraus. No. 1,364,738; Jan. 4; v. 282; p. 133.
- Chlorid, Production of aluminum. M. Shoeld. No. 1,375,116; Apr. 19; v. 285; p. 439.
- Chlorids, Apparatus for the electrolysis of solutions of alkaline. C. N. Rüber. No. 1,378,829; May 17; v. 286; p. 577.
- Chlorids of potassium or other metals, Obtaining. W. A. Schmidt. No. 1,367,836; Feb. 8; v. 283; p. 246.
- Chlorin composition. C. W. Schedler, Jr. No. 1,367,431; Feb. 1; v. 283; p. 109.
- Chlorin control, Apparatus for. J. W. Van Meter. No. 1,400,393; Dec. 13.
- Chlorin-dispenser, Portable. J. W. Van Meter. No. 1,401,293; Dec. 27.
- Chlorin solution, Apparatus for the production of a. M. G. Slocum. No. 1,376,471; May 3; v. 286; p. 18.
- Chlorination. H. E. Buc. No. 1,391,758; Sept. 27; v. 290; p. 671.
- Chlorination. F. Sparre and W. E. Masland. No. 1,379,367; May 24; v. 286; p. 752.
- Chlorination apparatus. J. W. Van Meter. No. 1,400,107; Dec. 13.
- Chock-block. F. Arn. No. 1,400,786; Dec. 20.
- Chocolate and like coating machine. A. Sonsthagen. No. 1,391,914; Sept. 27; v. 290; p. 702.
- Chocolate and other materials, Machine for cooling. E. Savy. No. 1,375,734; Apr. 26; v. 285; p. 589.
- Chocolate bonbons, Machine for coating. A. Sonsthagen. No. 1,393,460; Oct. 11.
- Chocolate-cooling machine. H. C. Gates. No. 1,375,380; Apr. 19; v. 285; p. 400.
- Chocolate, Making soluble. J. Friedman. No. 1,364,192; Jan. 4; v. 282; p. 28.
- Chocolate, Maturing of. G. A. Bausman. No. 1,381,694; June 14; v. 287; p. 312.
- Chocolate, &c., Process and apparatus for refining. W. C. Schöppner. No. 1,390,251; Sept. 6; v. 290; p. 138.
- Choker-hook. O. Myrmo. No. 1,386,894; Aug. 9; v. 289; p. 257.
- Choker-line attachment. J. C. Clausen and J. Buckley. No. 1,381,616; June 14; v. 287; p. 296.
- Chopper: *See*—  
Corn and cotton chopper.  
Cotton-chopper.  
Food-chopper.  
Kindling-chopper.  
Meat-chopper.
- Chopping-machine. W. E. Kidney. No. 1,377,203; May 10; v. 286; p. 213.
- Christmas-tree holder. G. E. Chandless. No. 1,364,867; Jan. 11; v. 282; p. 202.
- Christmas-tree stand. E. A. Wilske. No. 1,394,386; Oct. 18.
- Chromic sulfate, Conversion of chromate and bichromate of sodium or potassium to. F. M. Mooney. No. 1,379,578; May 24; v. 286; p. 791.
- Chromous chlorid, Making. M. C. Taylor. No. 1,369,204; Feb. 22; v. 283; p. 597.
- Chronograph. A. L. Loomis, P. E. Klopsteg, P. G. Agnew, and W. H. Stannard. No. 1,376,890; May 3; v. 286; p. 98.
- Chronometer. W. A. Silngerland. No. 1,395,154; Oct. 25.
- Chuck. W. A. Barker. No. 1,389,731; Sept. 6; v. 290; p. 34.
- Chuck. D. L. Bisset. No. 1,392,109; Sept. 27; v. 290; p. 742.
- Chuck. W. E. Brown and P. C. Seegmueller. No. 1,377,663; May 10; v. 286; p. 301.
- Chuck. G. T. Buckham. No. 1,364,704; Jan. 4; v. 282; p. 127.
- Chuck. J. F. Buhr. No. 1,392,678; Oct. 4.
- Chuck. E. W. Bullard. No. 1,368,889; Feb. 15; v. 283; p. 497.
- Chuck. D. E. Carriere. No. 1,396,022; Nov. 8.
- Chuck. W. Castanie. No. 1,401,312; Dec. 27.
- Chuck. E. A. Chase. No. 1,375,777; Apr. 26; v. 285; p. 597.
- Chuck. G. H. Du Sell. No. 1,391,177; Sept. 20; v. 290; p. 480.
- Chuck. F. E. Fisher. No. 1,387,844; Aug. 16; v. 289; p. 498.
- Chuck. B. M. W. Hanson. No. 1,372,287; Mar. 22; v. 284; p. 650.
- Chuck. E. Hoyle. No. 1,377,351; May 10; v. 286; p. 243.
- Chuck. I. Hultman. No. 1,379,986; May 31; v. 286; p. 943.
- Chuck. F. W. Igberg. No. 1,366,003; Jan. 18; v. 282; p. 462.
- Chuck. W. N. John. No. 1,381,196; June 14; v. 287; p. 219.
- Chuck. F. W. Kupke. No. 1,384,020; July 5; v. 288; p. 158.
- Chuck. D. H. Lapointe. No. 1,370,598; Mar. 8; v. 284; p. 205.
- Chuck. R. L. Morgan. No. 1,364,783; Jan. 4; v. 282; p. 142.
- Chuck. G. A. Olin. No. 1,389,974; Sept. 6; v. 290; p. 84.
- Chuck. E. L. Pfunder. No. 1,398,341; Nov. 29.
- Chuck. R. F. Runge. No. 1,401,192; Dec. 27.
- Chuck. R. F. Runge and H. W. Jackson. No. 1,390,961; Sept. 13; v. 290; p. 374.
- Chuck. A. H. Segler. No. 1,391,908; Sept. 27; v. 290; p. 701.
- Chuck. C. F. Swissgabel. No. 1,401,207; Dec. 27.
- Chuck. W. E. Tait and W. Milnes. No. 1,379,658; May 31; v. 286; p. 881.
- Chuck. G. Williamson. No. 1,391,440; Sept. 20; v. 290; p. 533.
- Chuck. G. Williamson. No. 1,391,441; Sept. 20; v. 290; p. 534.
- Chuck, Adjustable. W. H. Clifford. No. 1,384,237; July 12; v. 288; p. 252.
- Chuck and like work-holder. J. D. Scaife. No. 1,389,272; Aug. 30; v. 289; p. 891.
- Chuck, Compound universal. J. J. Reilly. No. 1,369,707; Feb. 22; v. 283; p. 695.
- Chuck, Drill. H. Casler. No. 1,391,299; Sept. 20; v. 290; p. 505.
- Chuck, Drill. G. W. Emrick. No. 1,364,361; Jan. 4; v. 282; p. 61.
- Chuck, Drill. T. J. Hines. No. 1,372,289; Mar. 22; v. 284; p. 650.
- Chuck, Floating. C. G. Cashman. No. 1,368,484; Feb. 15; v. 283; p. 418.
- Chuck for machine-tools. R. E. Ellis. No. 1,400,272; Dec. 13.
- Chuck for machine-tools. E. P. Miller. No. 1,400,806; Dec. 13.
- Chuck-jaw. H. E. Sloan. No. 1,372,726; Mar. 29; v. 284; p. 774.
- Chuck-jaws, Adjusting and locking device for. H. C. Elvers. No. 1,384,557; July 12; v. 288; p. 319.
- Chuck, Lather. H. A. Brooks. No. 1,378,319; May 17; v. 286; p. 479.
- Chuck or holder. F. E. Shailor. No. 1,374,399; Apr. 12; v. 285; p. 238.
- Chuck, Oval. A. Rabelski and M. Torre. No. 1,397,546; Nov. 22.
- Chuck-pin. J. J. Harrington. No. 1,390,551; Sept. 13; v. 290; p. 291.
- Chuck, Reversible tapping. W. N. John. No. 1,381,197; June 14; v. 287; p. 219.
- Chuck, Revolving-jaw. W. A. Barker. No. 1,373,789; Apr. 5; v. 285; p. 79.
- Chuck, Second-operation. H. C. Hook. No. 1,374,083; Apr. 5; v. 285; p. 137.
- Chuck, Staybolt. G. Cousins. No. 1,393,267; Oct. 11.
- Chuck, Tool. J. Carr. No. 1,393,260; Oct. 11.



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- Chuck, Vacuum-. J. H. Burke and O. A. Wilming. No. 1,377,558; May 10; v. 286; p. 281.
- Chucks, Brush-holder for magnetic. F. L. Simmons. No. 1,365,285; Jan. 11; v. 282; p. 283.
- Chucking mechanism. E. P. Lindahl. No. 1,390,627; Sept. 13; v. 290; p. 307.
- Churn. C. R. Brown. No. 1,365,963; Jan. 18; v. 282; p. 455.
- Churn. T. Dolinar. No. 1,373,313; Mar. 29; v. 284; p. 892.
- Churn. F. H. Jones. No. 1,384,665; July 12; v. 288; p. 342.
- Churn. E. N. Paris. No. 1,392,789; Oct. 4.
- Churn. R. H. Phillips. No. 1,383,336; July 5; v. 288; p. 16.
- Churn. W. S. Ricks and E. R. Dewberry. No. 1,364,453; Jan. 4; v. 282; p. 79.
- Churn. W. T. Roberts. No. 1,371,117; Mar. 8; v. 284; p. 304.
- Churn and butter-worker. H. J. Smith. No. 1,390,466; Sept. 13; v. 290; p. 273.
- Churn and butter-worker, Combined. H. Christensen. No. 1,367,732; Feb. 8; v. 283; p. 226.
- Churn and butter-worker, Combined. R. B. Disbrow. No. 1,390,343; Sept. 13; v. 290; p. 249.
- Churn, Chair-operated. M. W. Cardem. No. 1,385,242; July 19; v. 288; p. 541.
- Churn-dasher. J. E. Flaherty. No. 1,374,843; Apr. 12; v. 285; p. 324.
- Churn-dasher. J. T. Hunter. No. 1,388,042; Aug. 16; v. 289; p. 536.
- Churn-gearing. C. F. Christopher. No. 1,369,164; Feb. 22; v. 283; p. 589.
- Churn-operating device. H. Poage. No. 1,382,316; June 21; v. 287; p. 488.
- Churn-operating mechanism. J. Panik and S. Clebo. No. 1,398,112; Nov. 22.
- Churn or churn-kneader. A. C. A. Zeuthen. No. 1,379,950; May 31; v. 286; p. 936.
- Churn, Power-operated. J. M. Rodger. No. 1,373,674; Apr. 5; v. 285; p. 57.
- Churn-timer. S. J. Van Kuren. No. 1,371,454; Mar. 15; v. 284; p. 433.
- Churn-timer. S. J. Van Kuren. No. 1,371,455; Mar. 15; v. 284; p. 433.
- Churns, Motor for. R. S. Devney. No. 1,369,888; Mar. 1; v. 284; p. 25.
- Churning, beating, or mixing apparatus. J. A. Wilde. No. 1,374,701; Apr. 12; v. 285; p. 297.
- Chute and end-gate, Adjustable. J. N. Ramsey. No. 1,364,581; Jan. 4; v. 282; p. 103.
- Chute, Discharge-. J. W. Brabant. No. 1,388,696; Aug. 23; v. 289; p. 722.
- Chute, Hog-. F. J. Deno and J. Martin. No. 1,383,080; June 28; v. 287; p. 688.
- Cider-press. A. Bartlemy. No. 1,398,252; Nov. 29.
- Cigar and cigarette holder. T. R. James. No. 1,383,121; June 28; v. 287; p. 696.
- Cigar and cigarette holder. G. Lampessas. No. 1,398,559; Nov. 29.
- Cigar and cigarette holder. F. P. Williams. No. 1,395,320; Nov. 1.
- Cigar and cigarette lighter. F. Grandich. No. 1,386,616; Aug. 9; v. 289; p. 200.
- Cigar-binder-cutting bench. W. J. Goodfellow. No. 1,370,431; Mar. 1; v. 284; p. 128.
- Cigar-box. H. Leiman. No. 1,365,510; Jan. 11; v. 282; p. 326.
- Cigar-box. H. Leiman. No. 1,400,084; Dec. 13.
- Cigar-box-lid holder. W. M. Anderson. No. 1,395,215; Oct. 25.
- Cigar-box-lid holder and display-ticket. C. S. Gunter. No. 1,390,125; Sept. 6; v. 290; p. 114.
- Cigar-box, Metal. M. Bayuk. No. 1,398,059; Nov. 22.
- Cigar-boxes, Making. H. Leiman. No. 1,395,843; Nov. 1.
- Cigar-carrier. G. R. Fullenwider. No. 1,392,409; Oct. 4.
- Cigar, cigarette, and match-holder and ash-receiver. E. Schulte and J. Weite, Jr. No. 1,364,893; Jan. 11; v. 282; p. 207.
- Cigar-lighter. C. F. Cuno. No. 1,378,013; May 17; v. 286; p. 421.
- Cigar-lighter. F. B. Farnsworth. No. 1,393,888; Oct. 18.
- Cigar-lighter. C. E. Gervais. No. 1,364,274; Jan. 4; v. 282; p. 45.
- Cigar-lighter. W. Jay. No. 1,373,006; Mar. 29; v. 284; p. 832.
- Cigar-lighter, Electric. D. B. Clark. No. 1,370,631; Mar. 8; v. 284; p. 212.
- Cigar-lighter for steering-wheels. E. H. Anshelm. No. 1,395,548; Nov. 1.
- Cigar-lighting device. F. A. Adams. No. 1,373,583; Apr. 5; v. 285; p. 40.
- Cigar-mold. A. A. Charbonneau. No. 1,393,087; Oct. 11.
- Cigar-package. M. Bayuk. No. 1,393,467; Nov. 1.
- Cigar-package. E. Vallens. No. 1,373,577; Apr. 5; v. 285; p. 39.
- Cigar-perforator. P. J. Hentschel. No. 1,376,335; Apr. 26; v. 285; p. 705.
- Cigar-wrappers, Apparatus for use in assorting. T. Baer and W. H. Bitler. No. 1,380,179; May 31; v. 286; p. 979.
- Cigars and cigarettes, Ash-protector and cutter adaptable to. R. A. Hoffmann. No. 1,394,622; Oct. 25.
- Cigars and cigarettes, Holder for. R. F. Pineda. No. 1,372,544; Mar. 22; v. 284; p. 698.
- Cigars and the like, Electrical lighting device for. J. M. Morris. No. 1,376,154; Apr. 26; v. 285; p. 670.
- Cigars, Machine for pressing. R. Woerner. No. 1,399,235; Dec. 6.
- Cigars, &c., Petrol or spirit lighters for. J. Manz. No. 1,401,344; Dec. 27.
- Cigarette. G. Pappanikolaou. No. 1,374,466; Apr. 12; v. 285; p. 252.
- Cigarette. N. Sulzberger. No. 1,391,427; Sept. 20; v. 290; p. 531.
- Cigarette and cigar dispenser and container. D. Shapiro. No. 1,379,702; May 31; v. 286; p. 889.
- Cigarette-case. L. Dahlgren. No. 1,366,560; Jan. 25; v. 282; p. 615.
- Cigarette-case. C. Dominick. No. 1,384,690; July 12; v. 288; p. 347.
- Cigarette-case. N. G. Stewart. No. 1,388,073; Aug. 16; v. 289; p. 542.
- Cigarette-case. R. A. Talbot. No. 1,379,659; May 31; v. 286; p. 882.
- Cigarette-extinguisher. A. B. Mensing. No. 1,366,675; Jan. 25; v. 282; p. 638.
- Cigarette-extinguishing device. H. N. Jones. No. 1,372,143; Mar. 22; v. 284; p. 622.
- Cigarette-former. G. E. Jackson. No. 1,379,344; May 24; v. 286; p. 748.
- Cigarette-former. J. McDonnell. No. 1,385,018; July 19; v. 288; p. 496.
- Cigarette-forming device. C. S. Branch. No. 1,376,074; Apr. 26; v. 285; p. 655.
- Cigarette-holder. C. R. Haney. No. 1,386,494; Aug. 2; v. 289; p. 103.
- Cigarette-holder. S. H. Logan. No. 1,368,173; Feb. 8; v. 283; p. 309.
- Cigarette-holder. H. W. McChesney. No. 1,372,304; Mar. 22; v. 284; p. 653.
- Cigarette-holder. D. Palmer. No. 1,391,071; Sept. 20; v. 290; p. 458.
- Cigarette-holder. C. H. Plumer. No. 1,389,842; Sept. 6; v. 290; p. 57.
- Cigarette-holder. R. Vakilian. No. 1,388,222; Aug. 23; v. 289; p. 628.
- Cigarette holder and extinguisher, Combined. W. Cobb. No. 1,385,964; July 26; v. 288; p. 763.
- Cigarette holder and lighter, Combination. F. Racz. No. 1,373,262; Mar. 29; v. 284; p. 882.
- Cigarette holder and mouthpiece. N. H. Stevens. No. 1,374,686; Apr. 12; v. 285; p. 294.
- Cigarette-holders, Attachment for. W. L. Wallace. No. 1,384,813; July 19; v. 288; p. 453.
- Cigarette-holders, Ejector for. M. E. Bailey. No. 1,385,031; July 19; v. 288; p. 498.
- Cigarette-machine. M. C. Grahl. No. 1,399,209; Dec. 6.
- Cigarette-machines, Tipping mechanism for. W. F. Grupe. No. 1,393,526; Oct. 11.
- Cigarette maker and filler. H. Williams. No. 1,371,135; Mar. 8; v. 284; p. 307.
- Cigarette-making machine. S. E. Agnew. No. 1,367,171; Feb. 1; v. 283; p. 57.
- Cigarette-making machine. C. Cesare. No. 1,394,250; Oct. 18.
- Cigarette or like case and electric torch, Combined. S. A. Appell. No. 1,397,610; Nov. 22.
- Cigarette-package. A. B. Cadmus. No. 1,381,276; June 14; v. 287; p. 233.
- Cigarette-package. G. W. Hill. No. 1,396,749; Nov. 15.
- Cigarette-package opener. E. C. Fritchard. No. 1,370,996; Mar. 8; v. 284; p. 281.
- Cigarette-packaging machine. E. D. Smith. No. 1,397,552; Nov. 22.
- Cigarette-rolling device. A. C. H. Holdbrook. No. 1,379,865; May 31; v. 286; p. 920.
- Cigarette-tip and forming same. G. T. May. No. 1,369,041; Feb. 22; v. 283; p. 566.
- Cigarette-tubes with hollow mouthpieces, Manufacturing. M. C. Grahl. No. 1,399,551; Dec. 6.
- Cigarettes for packeting, applicable also to analogous purposes, Apparatus for feeding, or both feeding and counting. W. Rose. No. 1,392,642; Oct. 11.
- Cinch-buckle. W. L. Davis. No. 1,368,903; Feb. 15; v. 283; p. 500.
- Cinch, Jaw-. H. J. Turner. No. 1,370,618; Mar. 8; v. 284; p. 209.
- Cinchona alkaloids and 2-phenyl-quinolin-4-carboxylic acid, Compounds of. A. B. Davis. (Reissue.) No. 15,127; June 21; v. 287; p. 545.
- Cinder-guard. C. W. Kennon. No. 1,393,627; Oct. 11.
- Cinematograph. R. B. Michalek. No. 1,370,829; Mar. 8; v. 284; p. 250.
- Cinematograph and like machines, Automatic safety control for. R. M. Geyer. No. 1,384,947; July 19; v. 288; p. 480.
- Cinematograph and safety device therefor. W. Van Den Broeck. No. 1,380,756; June 7; v. 287; p. 82.
- Cinematograph-film-feeding apparatus. W. C. Jeapes. No. 1,381,840; June 14; v. 287; p. 339.
- Cinematograph-films, Means for joining the ends of. A. S. Newman. No. 1,383,745; July 5; v. 288; p. 101.
- Cinematograph or similar apparatus, Automatic control of. H. R. Cnever. No. 1,366,310; Jan. 18; v. 282; p. 522.



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- Cinematograph-projector, Portable. R. I. Atherton. No. 1,391,990; Sept. 27; v. 290; p. 719.
- Cinematographic apparatus. J. Lehmann. No. 1,399,567; Dec. 6.
- Cinematographic apparatus, Means for intermittently feeding the films in. C. Anselmi and M. Viturro. No. 1,396,911; Nov. 15.
- Cinematographic apparatus, Safety device for. P. S. Gauriat. No. 1,367,958; Feb. 8; v. 283; p. 268.
- Cinematographic apparatus, Shutter for. P. S. Gauriat. No. 1,388,423; Aug. 23; v. 289; p. 670.
- Cinematographic arrangement. E. Wolff. No. 1,397,346; Nov. 15.
- Cinematographic device. H. Van Capelle. No. 1,370,386; Mar. 1; v. 284; p. 119.
- Cinematographic films, Apparatus for perforation of. E. G. W. Dittmer. No. 1,379,396; May 24; v. 286; p. 758.
- Cinematographic films, Apparatus for viewing. S. Grant and L. A. Crickmore. No. 1,372,017; Mar. 22; v. 284; p. 598.
- Cinematographic films, Device for maintaining the slack of. S. Kucharski. No. 1,395,119; Oct. 25.
- Cinematographic films, Treatment of. W. B. Wescott. No. 1,380,279; May 31; v. 286; p. 998.
- Cinematographic machine. E. Pluder. No. 1,395,137; Oct. 25.
- Cinematographic multiplex projection, &c. W. B. Wescott. No. 1,391,029; Sept. 20; v. 290; p. 450.
- Cinematographic targets, Shutter control for. H. Hirsch. No. 1,392,941; Oct. 11.
- Cinematography. I. Sutherland. No. 1,364,652; Jan. 4; v. 282; p. 117.
- Cinematography, Color. D. F. Comstock. No. 1,390,983; Sept. 20; v. 290; p. 440.
- Cinematography, Color. F. R. Miller. No. 1,389,963; Sept. 6; v. 290; p. 82.
- Circuit, Audion-. L. de Forest. No. 1,377,405; May 10; v. 286; p. 253.
- Circuit-breaker. C. Aalborg. No. 1,395,327; Nov. 1.
- Circuit-breaker. J. P. Arndt. No. 1,366,343; Jan. 25; v. 282; p. 571.
- Circuit-breaker. H. E. Borger. No. 1,384,510; July 12; v. 288; p. 308.
- Circuit-breaker. G. O. O. Davies. No. 1,377,876; May 10; v. 286; p. 343.
- Circuit-breaker. P. F. Kittoe. No. 1,380,216; May 31; v. 286; p. 986.
- Circuit-breaker. J. B. MacNeill. No. 1,395,348; Nov. 1.
- Circuit-breaker. K. F. Ries. No. 1,372,830; Mar. 29; v. 284; p. 796.
- Circuit-breaker and controller. J. C. Anderson. No. 1,400,929; Dec. 20.
- Circuit-breaker and switch, Combined. A. H. Packer. No. 1,367,085; Feb. 1; v. 283; p. 40.
- Circuit-breaker, Automatic. P. L. Nissen. No. 1,380,493; June 7; v. 287; p. 32.
- Circuit-breaker, Electric-. E. M. Moller. No. 1,391,966; Sept. 27; v. 290; p. 713.
- Circuit-breaker, Electrically-operated. G. A. Burnham. No. 1,396,094; Nov. 8.
- Circuit-breaker relay. W. Kaisling. No. 1,378,869; May 24; v. 286; p. 658.
- Circuit-breaker, Thermal. J. F. Lamb. No. 1,377,257; May 10; v. 286; p. 224.
- Circuit, Busy back. J. F. Toomey. No. 1,381,368; June 14; v. 287; p. 250.
- Circuit-closer. E. F. Nichols. No. 1,376,967; May 3; v. 286; p. 112.
- Circuit-closer, Automatic. J. Rukstala. No. 1,372,314; Mar. 22; v. 284; p. 655.
- Circuit-closer for burglar-alarms. W. C. Diederich. No. 1,369,889; Mar. 1; v. 284; p. 26.
- Circuit-closer for sheet-trips. C. R. Seymour, O. M. Hoch, and T. W. Adams. No. 1,389,988; Sept. 6; v. 290; p. 88.
- Circuit-closer, Hydrostatic. E. B. Crocker. No. 1,370,193; Mar. 1; v. 284; p. 83.
- Circuit-closer, Lock-operated. Z. H. Pehel. No. 1,388,119; Aug. 16; v. 289; p. 551.
- Circuit-closer, Sash-operated. J. Amodeo. No. 1,381,956; June 21; v. 287; p. 422.
- Circuit-closer, Thermal. A. Haslinger. No. 1,387,050; Aug. 9; v. 289; p. 288.
- Circuit-closer, Thermal. W. V. Reichard. No. 1,398,153; Nov. 22.
- Circuit-closer, Thermal. J. Sahlin. No. 1,366,286; Jan. 18; v. 282; p. 517.
- Circuit-closing device, Step-by-step. A. F. F. Glison and O. A. Shann. No. 1,378,945; May 24; v. 286; p. 672.
- Circuit-connector. H. A. Douglas. No. 1,377,411; May 10; v. 286; p. 254.
- Circuit-control mechanism. W. W. Schilling. No. 1,382,936; June 28; v. 287; p. 661.
- Circuit-controller. C. T. Evans and R. B. Hunter. No. 1,379,971; May 31; v. 286; p. 940.
- Circuit-controller. N. R. Haas. No. 1,401,071; Dec. 20.
- Circuit-controller. T. G. Lewis. No. 1,400,886; Dec. 20.
- Circuit-controller, Thermal. N. and N. Nishi. No. 1,377,848; May 10; v. 286; p. 338.
- Circuit-controller. W. C. Stevens. No. 1,396,694; Nov. 8.
- Circuit-controller, Thermosensitive. A. de Khotinsky. No. 1,375,780; Apr. 26; v. 285; p. 597.
- Circuit-controllers. A. Simon. No. 1,378,059; May 17; v. 286; p. 431.
- Circuit-controlling apparatus. H. C. Woodbury. No. 1,388,541; Aug. 23; v. 289; p. 692.
- Circuit-controlling apparatus, Automatic. L. M. Klauber. No. 1,395,046; Oct. 25.
- Circuit-extending plug. H. A. Douglas. No. 1,377,410; May 10; v. 286; p. 254.
- Circuit, Frequency-selecting receiving-. F. E. Pernot. No. 1,366,870; Jan. 25; v. 282; p. 669.
- Circuit-interrupter. C. Aalborg. No. 1,371,536; Mar. 15; v. 284; p. 450.
- Circuit-interrupter. C. L. Fortescue. No. 1,384,442; July 12; v. 288; p. 295.
- Circuit-interrupter. C. L. Fortescue. No. 1,392,137; Sept. 27; v. 290; p. 748.
- Circuit-interrupter. C. H. Hodgkins. No. 1,392,162; Sept. 27; v. 290; p. 752.
- Circuit-interrupter. J. N. Mahoney and W. M. Austin. No. 1,386,010; Aug. 2; v. 289; p. 9.
- Circuit-interrupter. J. N. Mahoney and J. B. MacNeill. No. 1,386,011; Aug. 2; v. 289; p. 9.
- Circuit-interrupter. P. V. McCash. No. 1,365,042; Jan. 11; v. 282; p. 237.
- Circuit-interrupter. H. R. Meyer. No. 1,368,344; Feb. 15; v. 283; p. 391.
- Circuit-interrupter. J. Slepian. No. 1,371,523; Mar. 15; v. 284; p. 447.
- Circuit-interrupter. J. F. Tritle. No. 1,398,982; Dec. 6.
- Circuit-interrupter. C. C. Whittaker. No. 1,386,039; Aug. 2; v. 289; p. 16.
- Circuit-interrupting device. C. T. Allcutt. No. 1,385,980; Aug. 2; v. 289; p. 3.
- Circuit-interrupting device. H. D. James. No. 1,371,561; Mar. 15; v. 284; p. 455.
- Circuit-interrupting device. N. W. Storer. No. 1,374,534; Apr. 12; v. 285; p. 265.
- Circuit-interrupting system. L. W. Chubb. No. 1,370,004; Mar. 1; v. 284; p. 48.
- Circuit-interrupting system. C. Le G. Fortescue. No. 1,377,573; May 10; v. 286; p. 284.
- Circuit mechanism, Automatic. C. F., L. K., C. G., and J. T. Redmon. No. 1,364,805; Jan. 4; v. 282; p. 146.
- Circuit-restoring relay. C. W. Kautz, Jr. No. 1,375,518; Apr. 19; v. 285; p. 516.
- Circuit-testing apparatus. L. P. Carle. No. 1,395,037; Oct. 25.
- Circuit, Trunk-. S. P. Shackleton. No. 1,370,562; Mar. 8; v. 284; p. 198.
- Circuits, Artificial busy-. D. M. Taggart. No. 1,400,103; Dec. 13.
- Circuits, Balancing equipment for four-wire. A. B. Clark and C. S. Demarest. No. 1,378,836; May 24; v. 286; p. 652.
- Circuits, Composite phantom. H. S. Osborne. No. 1,374,221; Apr. 12; v. 285; p. 204.
- Circuits, Desk operator's. W. A. Rhodes. No. 1,372,042; Mar. 22; v. 284; p. 603.
- Circuits, Desk-operator's. W. A. Rhodes. No. 1,389,596; Sept. 6; v. 290; p. 7.
- Circuits, Desk-operator's. W. A. Rhodes. No. 1,390,545; Sept. 13; v. 290; p. 290.
- Circuits, Electron-tube-testing. S. P. Shackleton. No. 1,365,734; Jan. 18; v. 282; p. 409.
- Circuits, Means for and method of reducing cross-talk in four-wire. O. B. Blackwell. No. 1,394,062; Oct. 18.
- Circuits, Means for controlling repeater-. J. F. Toomey. No. 1,400,189; Dec. 13.
- Circuits, Means for preventing voltage fluctuations in distributing-. L. W. Thompson. No. 1,373,922; Apr. 5; v. 285; p. 106.
- Circuits, Method of and apparatus for testing repeater-. J. F. Toomey. No. 1,364,158; Jan. 4; v. 282; p. 22.
- Circuits, Multiple-station transmission-. W. H. Harden. No. 1,392,152; Sept. 27; v. 290; p. 750.
- Circuits, Network-selecting. C. S. Demarest. No. 1,377,242; May 10; v. 286; p. 221.
- Circuits, Operator's trunk-. G. W. Kuhn. No. 1,392,179; Sept. 27; v. 290; p. 756.
- Circuits, Repeater-. C. S. Demarest and S. P. Shackleton. No. 1,382,631; June 28; v. 287; p. 603.
- Circuits, Repeater-. L. Espenschied. No. 1,378,170; May 17; v. 286; p. 451.
- Circuits, Repeater-controlling system for four-wire. C. S. Demarest. No. 1,394,189; Oct. 18.
- Circuits, Repeater cord-. O. H. Loynes and A. F. Rose. No. 1,391,552; Sept. 20; v. 290; p. 556.
- Circuits, Safeguard for electric. W. R. Cox. No. 1,378,659; May 17; v. 286; p. 545.
- Circuits, Switch for electric. A. Graf. No. 1,392,324; Oct. 4.
- Circuits, Testing system for four-wire. C. S. Demarest. No. 1,394,190; Oct. 18.
- Circuits, Through-ringing repeater-. J. F. Toomey. No. 1,364,159; Jan. 4; v. 282; p. 22.
- Circuits, Vacuum-tube. A. Haddock. No. 1,396,745; Nov. 15.
- Circulator-heater. H. E. Roys. No. 1,388,822; Aug. 23; v. 289; p. 747.
- Cistern. W. F. Misegadis. No. 1,389,151; Aug. 30; v. 289; p. 867.
- Cistern, Closet-. F. W. Popp. No. 1,364,309; Jan. 4; v. 282; p. 51.



## Alphabetical list of inventions—Continued.

- Cistern, Flush-. G. Renner. No. 1,386,948; Aug. 9; v. 289; p. 267.  
 Cistern-top. O. H. Yaeche. No. 1,400,399; Dec. 13.  
 Citrus-fruit-juice extractor. G. E. Carney. No. 1,386,552; Aug. 2; v. 289; p. 115.  
 Citrus-juice extractor. W. M. Murphy. No. 1,389,454; Aug. 30; v. 289; p. 928.  
 Citrus-juice powder. S. L. Ames. No. 1,373,933; Apr. 5; v. 285; p. 108.  
 Claim-connecting link. W. A. Haughwout. No. 1,380,903; June 7; v. 287; p. 111.  
 Clam-digger. W. D. Collier. No. 1,387,590; Aug. 16; v. 289; p. 447.  
 Clamp: *See*—  
   Adjustable clamp. Ladder-clamp.  
   Antiskid-clamp. Lifting-clamp.  
   Automatic hood-clamp. Machine-clamp.  
   Battery-clamp. Needle-clamp.  
   Bed-clamp. Panel-clamp.  
   Bedclothes-clamp. Piano-key-repair clamp.  
   Broom-clamp. Pipe-clamp.  
   Bus-bar clamp. Piston-ring clamp.  
   Cabinet-maker's clamp. Planer-clamp.  
   Cabinet or furniture clamp. Planking-clamp.  
   Cable-clamp. Pneumatic and hydraulic clamp.  
   Cable suspension-clamp. Rail-clamp.  
   Cartridge-belt clamp. Rail tie and clamp.  
   Casing-clamp. Repair-clamp.  
   Chain-clamp. Resilient clamp.  
   Cloth-clamp. Rod-clamp.  
   Clothesline-clamp. Roofing-clamp.  
   Combustion-clamp. Rope-clamp.  
   Concrete-form clamp. Saw-clamp.  
   Concrete-form wire-clamp. Screw-conveyer drive-clamp.  
   Conductor-clamp. Steel clamp.  
   Cotter-clamp. Stovepipe-clamp.  
   Cue-tip clamp. Suspension-clamp.  
   Display-clamp. Terminal ground-clamp.  
   Dog-clamp. Track-clamp.  
   Drive-clamp. Transfer-clamp.  
   Engine-support clamp. Trolley-clamp.  
   Extension-clamp. Trolley-wire clamp.  
   Faucet-clamp. Valve-spring-compressing clamp.  
   Fence-clamp. Welding-clamp.  
   Fence-wire clamp. Well-liner clamp.  
   Fishing-reel clamp. Wind-deflector clamp.  
   Flask-clamp. Window-clamp.  
   Ground-clamp. Wire-clamp.  
   Guard-rail clamp. Wire-stretcher clamp.  
   Guy-clamp. Work-clamp.  
   Heel-clamp.  
   Hood-clamp.  
   Hose-clamp.  
 Clamp. D. W. Bowe. No. 1,387,917; Aug. 16; v. 289; p. 512.  
 Clamp. S. Bullum. No. 1,396,353; Nov. 8.  
 Clamp. A. L. Cochrane. No. 1,364,613; Jan. 4; v. 282; p. 109.  
 Clamp. A. L. Cochrane. No. 1,398,126; Nov. 22.  
 Clamp. W. F. Conklin. No. 1,390,087; Sept. 6; v. 290; p. 107.  
 Clamp. M. A. Doelckner. No. 1,398,091; Nov. 22.  
 Clamp. A. C. Felton. No. 1,375,686; Apr. 26; v. 285; p. 581.  
 Clamp. A. F. Gillet. No. 1,397,508; Nov. 22.  
 Clamp. P. Gildewell. No. 1,371,888; Mar. 15; v. 284; p. 516.  
 Clamp. V. O. Gray. No. 1,368,138; Feb. 8; v. 283; p. 303.  
 Clamp. F. Hachmann. No. 1,391,828; Sept. 27; v. 290; p. 685.  
 Clamp. B. E. Hilborn. No. 1,389,587; Sept. 6; v. 290; p. 5.  
 Clamp. F. K. Hobbs. No. 1,394,413; Oct. 18.  
 Clamp. J. F. Husa. No. 1,381,308; June 14; v. 287; p. 230.  
 Clamp. W. V. Isgrig. No. 1,394,904; Oct. 25.  
 Clamp. J. L. Jefferies. No. 1,397,930; Nov. 22.  
 Clamp. J. W. Johnson. No. 1,388,045; Aug. 16; v. 289; p. 536.  
 Clamp. J. A. Kohn. No. 1,376,284; Apr. 26; v. 285; p. 695.  
 Clamp. C. B. Latendorf. No. 1,375,849; Apr. 26; v. 285; p. 611.  
 Clamp. F. M. Mechling. No. 1,400,491; Dec. 13.  
 Clamp. J. Nicol. No. 1,375,312; Apr. 19; v. 285; p. 477.  
 Clamp. A. B. Pearson. No. 1,368,286; Feb. 15; v. 283; p. 379.  
 Clamp. F. W. Rees. No. 1,364,644; Jan. 4; v. 282; p. 115.  
 Clamp. L. D. Ross. No. 1,382,400; June 21; v. 287; p. 505.  
 Clamp. R. C. Shaw and F. C. Skadan. No. 1,381,351; June 14; v. 287; p. 247.  
 Clamp. F. L. H. Sims. No. 1,382,024; June 21; v. 287; p. 434.  
 Clamp. F. L. H. Sims. No. 1,391,015; Sept. 29; v. 290; p. 447.  
 Clamp. J. L. Spence, Jr. No. 1,394,691; Oct. 25.  
 Clamp. J. L. Taylor. No. 1,393,718; Oct. 11.  
 Clamp. E. A. Teeter. No. 1,364,415; Jan. 4; v. 282; p. 72.  
 Clamp. C. Vitek. No. 1,382,813; June 28; v. 287; p. 638.  
 Clamp and dog combination. R. Pomerence. No. 1,370,994; Mar. 8; v. 284; p. 281.  
 Clamp-bolt. C. S. Peet. No. 1,374,227; Apr. 12; v. 285; p. 205.  
 Clamp-dog. A. P. Miller. No. 1,376,026; Apr. 26; v. 285; p. 645.  
 Clamp, Drive-. A. W. Brown. No. 1,396,921; Nov. 15.  
 Clamp for flexible containers. W. E. Goddard. No. 1,387,975; Aug. 16; v. 289; p. 523.  
 Clamp for greenhouse-roofs. A. Klokner. No. 1,387,409; Aug. 9; v. 289; p. 359.  
 Clamp for log-holders, Adjustable. D. Parks. No. 1,385,188; July 19; v. 288; p. 531.  
 Clamps, Adapter for saddle. J. Ditson. No. 1,384,520; July 12; v. 288; p. 311.  
 Clamps, Manufacturing guy-. A. J. Blaeser. No. 1,388,692; Aug. 23; v. 289; p. 721.  
 Clamping device. G. and W. Aird. No. 1,387,226; Aug. 9; v. 289; p. 321.  
 Clamping device. E. L. Benedict. No. 1,381,270; June 14; v. 287; p. 336.  
 Clamping device. W. F. Deater. No. 1,370,683; Mar. 8; v. 284; p. 222.  
 Clamping device. P. A. Hoffman. No. 1,395,825; Nov. 1.  
 Clamping device. J. C. Nichols and E. Ryder. No. 1,391,401; Sept. 20; v. 290; p. 526.  
 Clamping means for rotary members. E. P. Shannon. No. 1,392,363; Oct. 4.  
 Clamping mechanism. A. M. Bellony. No. 1,371,545; Mar. 15; v. 284; p. 451.  
 Clamping mechanism. H. C. Johansen. No. 1,399,261; Dec. 6.  
 Clamshell-dumping device. A. Stewart. No. 1,396,347; Nov. 8.  
 Clarifier and fume-collector, Factory air-. A. Nashlund. No. 1,371,205; Mar. 8; v. 284; p. 320.  
 Clarifier, Centrifugal. M. Leitch. No. 1,370,326; Mar. 1; v. 284; p. 108.  
 Clarifying solutions. J. A. McCaskell. No. 1,396,514; Nov. 8.  
 Clarinets, Mouth-piece for. J. A. Redfield. No. 1,375,467; Apr. 19; v. 285; p. 506.  
 Clasp: *See*—  
   Bracket-clasp. Lingerie-clasp.  
   Chain-clasp. Napkin-clasp.  
   Collar-clasp. Necktie-clasp.  
   Corset-clasp. Nipple-clasp.  
   Fabric-clasp. Safety-clasp.  
   Garter-clasp. Soft-collar clasp.  
   Hose-supporter clasp. Skirt-clasp.  
   Hose-supporting clasp. Stocking-clasp.  
   Jewelry-clasp. Tie-clasp.  
 Clasp. S. Buchsbaum. No. 1,396,019; Nov. 8.  
 Clasp. A. Cornu. No. 1,364,724; Jan. 4; v. 282; p. 130.  
 Clasp. F. W. Crocker. No. 1,392,816; Oct. 4.  
 Clasp. J. F. Delcourt. No. 1,377,116; May 3; v. 286; p. 141.  
 Clasp. J. F. Delcourt. No. 1,382,284; June 21; v. 287; p. 521.  
 Clasp. L. H. Dierking. No. 1,388,241; Aug. 23; v. 289; p. 632.  
 Clasp. O. Gehrke. No. 1,395,102; Oct. 25.  
 Clasp. R. King. No. 1,371,210; Mar. 8; v. 284; p. 321.  
 Clasp. P. A. and J. P. Kopp. No. 1,385,009; July 19; v. 288; p. 494.  
 Clasp. J. H. Lynch. No. 1,369,823; Mar. 1; v. 284; p. 13.  
 Clasp. A. Pfeiffer. No. 1,396,941; Nov. 15.  
 Clasp. P. Schnurr. No. 1,379,480; May 24; v. 286; p. 773.  
 Clasp. A. Schroetter. No. 1,396,887; Nov. 15.  
 Clasp. E. I. Shoff. No. 1,375,329; Apr. 19; v. 285; p. 480.  
 Clasp. C. H. Strauss. No. 1,368,665; Feb. 15; v. 283; p. 454.  
 Clasp. F. M. Swartz. No. 1,374,337; Apr. 12; v. 285; p. 226.  
 Clasp. F. M. Swartz. No. 1,384,812; July 19; v. 288; p. 453.  
 Clasp. A. L. Vilander. No. 1,388,495; Aug. 23; v. 289; p. 684.  
 Clasp. D. Zaiden. No. 1,368,593; Feb. 15; v. 283; p. 440.  
 Clasp-brake. J. M. Coleman and K. F. Nystrom. No. 1,385,607; July 26; v. 288; p. 692.  
 Clasp for documents, &c. R. Golden. No. 1,401,770; Dec. 27.  
 Clasp for straps, bands, or ribbons. R. King. No. 1,372,299; Mar. 22; v. 284; p. 652.  
 Clasp, Safety-. H. V. Rasley. No. 1,396,311; Nov. 8.  
 Clasp-stud. G. T. Brannigan. No. 1,387,230; Aug. 9; v. 289; p. 322.  
 Clasp-stud. A. Oppenheim. No. 1,369,463; Feb. 22; v. 283; p. 647.  
 Classifying and separation of solid bodies by combined action of orientation, deviation, and derivation. R. E. Trotter. No. 1,400,389; Dec. 13.  
 Classifying and separation of solid bodies by combined action of orientation, deviation, and derivation, Apparatus for. R. E. Trotter. No. 1,400,390; Dec. 13.  
 Classifying materials, Method and apparatus for. H. M. and T. M. Chance. No. 1,392,401; Oct. 4.  
 Clay and the like, Mining of. J. S. Highfield. No. 1,366,456; Jan. 25; v. 282; p. 595.  
 Clays, Decomposing. E. Levitt. No. 1,399,217; Dec. 6.



*Alphabetical list of inventions—Continued.*

- Clay-press. R. F. Meyer. No. 1,373,903; Apr. 5; v. 285; p. 102.
- Clay, Treating. J. H. Ryan. No. 1,385,716; July 26; v. 283; p. 714.
- Clay-working machinery. W. A. Gruenberg. No. 1,394,495; Oct. 18.
- Clean-out, Plumber's. R. Clow. No. 1,374,189; Apr. 12; v. 285; p. 198.
- Cleaner: *See—*
- |                       |                           |
|-----------------------|---------------------------|
| Air-cleaner.          | Hoe-cleaner.              |
| Bag-cleaner.          | Knife-cleaner.            |
| Boiler-cleaner.       | Oil-well cleaner.         |
| Boiler-tube cleaner.  | Pipe-cleaner.             |
| Book-cover cleaner.   | Raisin-cleaner.           |
| Burner-cleaner.       | Retort-cleaner.           |
| Cement-bag cleaner.   | Rubber floor-cleaner.     |
| Chimney-cleaner.      | Shoe-cleaner.             |
| Comb-cleaner.         | Silverware-cleaner.       |
| Commutator-cleaner.   | Smoking-pipe cleaner.     |
| Cotton-cleaner.       | Spark-plug cleaner.       |
| Dish-cleaner.         | Stovepipe-cleaner.        |
| Drag-harrow cleaner.  | Suction-cleaner.          |
| Eraser-cleaner.       | Tooth-cleaner.            |
| Film-cleaner.         | Track scraper or cleaner. |
| Flinger-nail cleaner. | Tube-cleaner.             |
| Fire-tube cleaner.    | Vacuum-cleaner.           |
| Fish-cleaner.         | Vacuum grain-cleaner.     |
| Flue-cleaner.         | Valve-cleaner.            |
| Furnace-cleaner.      | Well-cleaner.             |
| Gin-cleaner.          | Well-screen cleaner.      |
| Grain-cleaner.        | Window-cleaner.           |
| Gun-cleaner.          | Windshield-cleaner.       |
| Hay-sweep cleaner.    |                           |
- Cleaner. H. Prell. No. 1,394,789; Oct. 25.
- Cleaner-carrier, Rotary. R. C. Himmel. No. 1,390,438; Sept. 13; v. 290; p. 267.
- Cleaner, Vacuum-. J. W. Diephouse. No. 1,396,263; Nov. 8.
- Cleaners, Bag for vacuum-. H. L. Farquhar. No. 1,364,191; Jan. 4; v. 282; p. 28.
- Cleaners, Dust-bag structure for vacuum-. I. J. Owen and B. J. Bouwmeester. No. 1,377,721; May 10; v. 286; p. 312.
- Cleaners, Nozzle locking and retaining means for vacuum-. I. J. Owen and B. J. Bouwmeester. No. 1,365,123; Jan. 11; v. 282; p. 252.
- Cleaning and coating composition. J. M. Wilson. No. 1,401,023; Dec. 20.
- Cleaning and scrubbing device. W. Nelson. No. 1,369,261; Feb. 22; v. 283; p. 608.
- Cleaning and treating streets, Machine for. J. S. Porter. No. 1,390,639; Sept. 13; v. 290; p. 310.
- Cleaning and washing machine, Silverware. G. H. North. No. 1,376,379; Apr. 26; v. 285; p. 712.
- Cleaning apparatus. W. W. Farnsworth. No. 1,383,455; July 5; v. 288; p. 41.
- Cleaning apparatus. W. W. Farnsworth. No. 1,383,456; July 5; v. 288; p. 41.
- Cleaning apparatus. T. H. Richardson. No. 1,393,641; Oct. 11.
- Cleaning apparatus. I. H. Spencer. No. 1,399,165; Dec. 6.
- Cleaning carcasses in groups, Method and machine for. J. W. Kohlhepp. No. 1,367,055; Feb. 1; v. 283; p. 34.
- Cleaning device. A. B. Beitman. No. 1,368,982; Feb. 15; v. 283; p. 514.
- Cleaning device. J. A. De Vito. No. 1,382,633; June 28; v. 287; p. 603.
- Cleaning device. W. A. Penrod. No. 1,376,779; May 3; v. 286; p. 75.
- Cleaning device. C. A. Rivers and F. B. Stuart. No. 1,373,096; Mar. 29; v. 284; p. 848.
- Cleaning implement. C. N. Allen. No. 1,398,121; Nov. 22.
- Cleaning implement. T. Piechowicz. No. 1,368,833; Feb. 15; v. 283; p. 487.
- Cleaning-machine. A. L. Hildreth and A. M. McLendon. No. 1,381,553; June 14; v. 287; p. 285.
- Cleaning machine, Rug-. M. Mathews. No. 1,370,335; Mar. 1; v. 284; p. 110.
- Cleaning machines, Sectional apparatus for generating ammonia-gas for dry-. C. F. Scheffer. No. 1,367,718; Feb. 8; v. 283; p. 223.
- Cleaning metals, Method of and composition for. J. H. Gravell. No. 1,387,645; Aug. 16; v. 289; p. 458.
- Cleaning metals, Method of and composition for. J. H. Gravell. No. 1,398,507; Nov. 29.
- Cleaning system, Dry-. P. F. Smith and J. A. Luke. No. 1,385,724; July 26; v. 288; p. 716.
- Cleaning-tool. H. K. C. Maxson. No. 1,373,141; Mar. 29; v. 284; p. 858.
- Cleaning with alkali salts of protalbinic and lysalbinic acids. C. Bennert. No. 1,367,007; Feb. 1; v. 283; p. 25.
- Cleansing and polishing composition. A. A. Leggett. No. 1,400,826; Dec. 20.
- Cleansing and polishing paste. J. M. Schwaner. No. 1,382,019; June 21; v. 287; p. 433.
- Cleansing material. C. M. Dennis. No. 1,365,464; Jan. 11; v. 282; p. 317.
- Cleat, Insulated. B. G. Jansson. No. 1,366,661; Jan. 25; v. 282; p. 636.
- Clevis. G. E. Claude. No. 1,368,117; Feb. 8; v. 283; p. 298.
- Clevis. W. R. and J. M. Freeman. No. 1,392,138; Sept. 27; v. 290; p. 748.
- Clevis. E. F. Kelley. No. 1,393,379; Oct. 11.
- Clevis. W. Porter. No. 1,388,122; Aug. 16; v. 289; p. 551.
- Clevis. G. W. Whatley. No. 1,373,692; Apr. 5; v. 285; p. 60.
- Clevis-antirattling and pin-retaining attachment. C. H. Duffy. No. 1,392,561; Oct. 4.
- Clevis, Automatic-release. J. M. Kahl. No. 1,379,574; May 24; v. 286; p. 791.
- Clevis, Safety-. J. E. King and B. Morgan. No. 1,387,781; Aug. 16; v. 289; p. 486.
- Cliches, Hand inking-roller for inking. J. Dorel. No. 1,380,467; June 7; v. 287; p. 27.
- Click or detent. S. A. Watkins. No. 1,380,027; May 31; v. 286; p. 951.
- Clicking-die. F. R. Fuller. No. 1,368,330; Feb. 15; v. 283; p. 388.
- Climbing-iron. J. Selinger-Balzer. No. 1,395,234; Oct. 25.
- Clinometer and direction indicator, Combined. T. J. McConnell. No. 1,371,500; Mar. 15; v. 284; p. 443.
- Clinometer, Cross-sectional. A. J. H. Arthur. No. 1,393,419; Oct. 11.
- Clip: *See—*
- |                       |                            |
|-----------------------|----------------------------|
| Automobile-hood clip. | Metal-lath-attaching clip. |
| Cartridge-clip.       | Paper-clip.                |
| Display-clip.         | Pen and pencil clip.       |
| End clip.             | Pencil-clip.               |
| Film-clip.            | Photo-film clip.           |
| Glazing-clip.         | Spectacle-clip.            |
| Key-ring clip.        | Spring-clip.               |
| Laundry-clip.         | Tie-clip.                  |
| Lingerie-clip.        | Tuft-yarn spring-clip.     |
| Mail-clip.            |                            |
- Clip. H. H. Corbin and P. Vellema. No. 1,392,119; Sept. 27; v. 290; p. 744.
- Clip. G. V. Curtis. No. 1,374,882; Apr. 12; v. 285; p. 332.
- Clip. H. A. Staab. No. 1,397,151; Nov. 15.
- Clip. A. P. Thompson and W. L. Baxter. No. 1,381,029; June 7; v. 287; p. 36.
- Clip. L. P. Wentzell. No. 1,395,071; Oct. 25.
- Clip and thermometer-carrier, Combined. H. H. Harris. No. 1,377,578; May 10; v. 286; p. 285.
- Clip for nipples, Saddle-retaining. P. Mueller and A. C. Schuermann. No. 1,372,628; Mar. 22; v. 284; p. 715.
- Clip or clasp. W. H. Stevens. No. 1,381,438; June 14; v. 287; p. 264.
- Clipper, Electric. L. M. Bowman. No. 1,383,977; July 5; v. 288; p. 149.
- Clipper, Power-actuated hair-. W. F. Rose. No. 1,368,354; Feb. 15; v. 283; p. 393.
- Clipping device. W. Gower. No. 1,386,470; Aug. 2; v. 289; p. 99.
- Cloak and robe lock. F. Sagerman. No. 1,395,525; Nov. 1.
- Clock. W. O'Leary. No. 1,365,537; Jan. 11; v. 282; p. 331.
- Clock, Alarm-. J. S. Hartley. No. 1,369,427; Feb. 22; v. 283; p. 640.
- Clock, Alarm-. P. Lux. No. 1,386,881; Aug. 9; v. 289; p. 254.
- Clock, Alarm-. C. W. Waller. No. 1,366,983; Feb. 1; v. 283; p. 20.
- Clock and means for winding same. S. Strommer. No. 1,372,256; Mar. 22; v. 284; p. 644.
- Clock attachment, Alarm-. C. L. Rasmussen. No. 1,397,702; Nov. 22.
- Clock, Automatic-call. C. R. Bacon. No. 1,380,311; May 31; v. 286; p. 1004.
- Clock, Call-. C. R. Gains. No. 1,371,781; Mar. 15; v. 284; p. 496.
- Clock-case. F. J. Kristofek. No. 1,384,900; July 19; v. 288; p. 470.
- Clock, Control. W. J. van der Eerden. No. 1,364,966; Jan. 11; v. 282; p. 221.
- Clock-controlled switch-operating device, Automatic. S. Johnsen. No. 1,393,447; Oct. 11.
- Clock-dial. J. P. Becker. No. 1,370,401; Mar. 1; v. 284; p. 122.
- Clock-dial back and mat. H. L. Lathrop. No. 1,380,812; June 7; v. 287; p. 94.
- Clock-dial holder, Watchman's-. T. A. Rendle. No. 1,382,802; June 28; v. 287; p. 636.
- Clock, Electric. P. Mansel. No. 1,373,517; Apr. 5; v. 285; p. 27.
- Clock, Electric. L. E. Shaw. No. 1,400,832; Dec. 20.
- Clock-escapement. H. C. Saul. No. 1,395,148; Oct. 25.
- Clock-frame. P. Lux. No. 1,398,597; Nov. 29.
- Clock, Geographical. S. W. Balch. No. 1,378,085; May 17; v. 286; p. 435.
- Clock, Geographical. A. Caesar. No. 1,401,390; Dec. 27.
- Clock, Master-. J. W. Bryce. No. 1,390,018; Sept. 6; v. 290; p. 93.
- Clock mechanism. T. Watson and C. F. Webb. No. 1,368,004; Feb. 8; v. 283; p. 277.
- Clock, Memory-. H. Bates. No. 1,385,656; July 26; v. 288; p. 702.
- Clock movement, Chime and strike. F. Wehinger. No. 1,399,452; Dec. 6.
- Clock, Photographic exposing-. C. Kesses. No. 1,384,528; July 12; v. 288; p. 312.



## Alphabetical list of inventions—Continued.

- Clock, Portable watchman's. R. D. King. No. 1,365,109; Jan. 11; v. 282; p. 249.
- Clock, Secondary. J. W. Brice. No. 1,378,653; May 17; v. 286; p. 544.
- Clock, Secondary electric. T. S. Casner. No. 1,388,512; Aug. 23; v. 289; p. 687.
- Clock, Secondary electric. F. Frick. No. 1,388,458; Aug. 23; v. 289; p. 677.
- Clock, Self-winding. F. Guye. No. 1,371,164; Mar. 8; v. 284; p. 313.
- Clock, Self-winding. A. L. Sohm. No. 1,394,689; Oct. 25.
- Clock, Ship's-bells. S. W. Balch. No. 1,378,438; May 17; v. 286; p. 502.
- Clock, Ship's-bells. F. Wehinger. No. 1,390,848; Sept. 13; v. 290; p. 350.
- Clock, Ship's-bells. F. X. Wehrle. No. 1,394,957; Oct. 25.
- Clock, Stop-. R. A. Fessenden. No. 1,397,950; Nov. 22.
- Clock system, Synchronizing. J. W. Bryce. No. 1,388,167; Aug. 23; v. 289; p. 617.
- Clock systems, Synchronizing. J. W. Brice. No. 1,377,000; May 3; v. 286; p. 118.
- Clock, Wall-. O. Ohlson. No. 1,379,713; May 31; v. 286; p. 891.
- Clock, watch, and the like timekeeping instrument. A. Jarred. No. 1,389,666; Sept. 6; v. 290; p. 21.
- Clock, Watchman's. C. H. Jenkins. No. 1,370,543; Mar. 8; v. 284; p. 194.
- Clock, Watchman's. T. A. Rendle and A. Beyer. No. 1,387,178; Aug. 9; v. 289; p. 313.
- Clock-winding mechanism. J. F. and J. F., Jr., Ohmer. No. 1,367,712; Feb. 8; v. 283; p. 222.
- Clocks, Frame for electromagnet. M. P. Favre-Bulle. No. 1,390,110; Sept. 6; v. 290; p. 112.
- Clocks, Self-winding attachment for secondary. J. W. Bryce. No. 1,367,534; Feb. 8; v. 283; p. 188.
- Clod crusher and leveler. G. W. Smidly. No. 1,365,287; Jan. 11; v. 282; p. 284.
- Closet: See—
- Oven and warming-closet. Water-closet.
- Closet. W. H. Gausewitz and H. B. Cummings. No. 1,383,295; July 5; v. 288; p. 8.
- Closet-bowls, Ventilating apparatus for. A. W. Lucas. No. 1,401,091; Dec. 20.
- Closet-bowls, Ventilator for. A. A. and A. J. Bruder. No. 1,372,272; Mar. 22; v. 284; p. 647.
- Closet-seat fixture. E. C. B. Judd. No. 1,396,934; Nov. 15.
- Closet-seat lids, Automatic opening mechanism for. G. E. Kinch. No. 1,398,556; Nov. 29.
- Closet-seat protector. M. I. Munce. No. 1,368,825; Feb. 15; v. 283; p. 485.
- Closet-seat screen. L. Kuballo. No. 1,366,695; Jan. 25; v. 282; p. 642.
- Closet-seat. Sanitary appliance for. N. N. Barsness. No. 1,396,547; Nov. 8.
- Closure. G. Fuegel and H. Schmid. No. 1,386,101; Aug. 2; v. 289; p. 28.
- Closure. R. Stirling. No. 1,393,847; Oct. 18.
- Closure. H. E. Townsend. No. 1,393,925; Oct. 18.
- Closure device. T. H. Bennis. No. 1,372,115; Mar. 22; v. 284; p. 616.
- Closure for jars, bottles, and other receptacles. A. and H. Ingram. No. 1,385,172; July 19; v. 288; p. 528.
- Closure holding and securing means. W. Duquette. No. 1,376,802; May 3; v. 286; p. 80.
- Closure, Lacing-. A. Balhasar. No. 1,398,995; Dec. 6.
- Closure-lifter. W. Smith. No. 1,386,208; Aug. 2; v. 289; p. 49.
- Closure, Moisture-proof. G. A. Platz. No. 1,364,640; Jan. 4; v. 282; p. 114.
- Closure-operating mechanism. E. A. Ruck. No. 1,364,954; Jan. 11; v. 282; p. 219.
- Closures, Apparatus for applying. E. L. Greenwald. No. 1,398,963; Dec. 6.
- Cloth and other material, Cutting-machine for. E. G. Goben. No. 1,380,710; June 7; v. 287; p. 73.
- Cloth-clamp. J. E. Berry. No. 1,392,552; Oct. 4.
- Cloth-cutter, Electric. E. A. Scaffaro and J. A. McLeod. No. 1,395,150; Oct. 25.
- Cloth-cutting and pattern-marking machine. J. A. and H. Rosenfeld. No. 1,398,396; Nov. 29.
- Cloth-cutting machine. J. E. Williams. No. 1,375,989; Apr. 26; v. 285; p. 638.
- Cloth-cutting machine. M. Zawistowski. No. 1,378,162; May 17; v. 286; p. 450.
- Cloth-cutting machine. M. Zawistowski. No. 1,378,163; May 17; v. 286; p. 450.
- Cloth-cutting machine, Handle-block for. W. J. Marshall. No. 1,372,079; Mar. 22; v. 284; p. 609.
- Cloth-cutting machines, Sharpening device for. F. J. Clark. No. 1,368,321; Feb. 15; v. 283; p. 386.
- Cloth-finishing. G. Wolf. No. 1,401,663; Dec. 27.
- Cloth folding and measuring machines, Yardage-register for. R. J. Dellinger. No. 1,364,081; Jan. 4; v. 282; p. 6.
- Cloth-guiding device for cloth-finishing machines. W. A. Hogan. No. 1,385,746; July 26; v. 288; p. 720.
- Cloth-handling device. A. Rau. No. 1,398,043; Nov. 22.
- Cloth-holder. C. Englehardt. No. 1,395,633; Nov. 1.
- Cloth-machines, Clamp for. B. Rubinstein. No. 1,389,320; Aug. 30; v. 289; p. 901.
- Cloth-measuring machines, Measuring-machine attachment for. D. Turner. No. 1,391,431; Sept. 20; v. 290; p. 532.
- Cloth-repairing machine. Press-. A. J. Furry. No. 1,396,644; Nov. 8.
- Cloth-saving device. R. H. Holder. No. 1,383,116; June 28; v. 287; p. 695.
- Cloth-sponging machine. L. Bajett. No. 1,387,449; Aug. 16; v. 289; p. 417.
- Cloth-sponging machine. B. Cortese. No. 1,387,836; Aug. 16; v. 289; p. 496.
- Cloth-stretching apparatus. T. J. Haas and P. Blumer. No. 1,381,632; June 14; v. 287; p. 299.
- Cloth winding and measuring machine. W. E. Hosch. No. 1,390,957; Sept. 13; v. 290; p. 373.
- Clothes, Apparatus for fitting. F. W. Wodrich. No. 1,372,732; Mar. 29; v. 284; p. 776.
- Clothes-boiler. C. J. Dieteman. No. 1,366,772; Jan. 25; v. 282; p. 658.
- Clothes-clamping machine for laundry use. B. A. Metcalf and C. E. Hutchings. No. 1,372,183; Mar. 22; v. 284; p. 629.
- Clothes-drier. E. M. Bayne. No. 1,377,612; May 10; v. 286; p. 291.
- Clothes-drier. G. Bergquist. No. 1,400,789; Dec. 20.
- Clothes-drier. C. W. Hagerman. No. 1,400,359; Dec. 13.
- Clothes-drier. F. D. Riordan. No. 1,369,267; Feb. 22; v. 283; p. 609.
- Clothes-drying apparatus. E. P. Le Compte. No. 1,371,563; Mar. 15; v. 284; p. 455.
- Clothes-drying apparatus. R. N. Perovich. No. 1,386,199; Aug. 2; v. 289; p. 47.
- Clothes-drying machines, Ventilating appliance for. C. W. Collins. No. 1,391,939; Sept. 27; v. 290; p. 707.
- Clothes-hanger. E. J. Deragon. No. 1,366,526; Jan. 25; v. 282; p. 608.
- Clothes-hanger. L. D. Henderson. No. 1,364,754; Jan. 4; v. 282; p. 186.
- Clothes-hanger. F. M. McGowan. No. 1,370,981; Mar. 8; v. 284; p. 278.
- Clothes-hanger. J. H. Scheu. No. 1,379,700; May 31; v. 286; p. 889.
- Clothes-hanger. J. E. Stagl. No. 1,400,633; Dec. 20.
- Clothes-hanger. R. C. and C. C. Striker. No. 1,373,460; Apr. 5; v. 285; p. 16.
- Clothes-hanger. R. G. Tyler. No. 1,377,944; May 10; v. 286; p. 357.
- Clothes-hanger. O. E. Uecker. No. 1,364,161; Jan. 4; v. 282; p. 22.
- Clothes hanger and brush, Combination. J. H. Goldberg. No. 1,392,634; Oct. 4.
- Clothes hanger and presser. M. G. McNeely. No. 1,390,054; Sept. 6; v. 290; p. 100.
- Clothes hanger and stretcher, Combination. T. Vrbic. No. 1,374,260; Apr. 12; v. 285; p. 211.
- Clothes-hanger, Metal. R. V. Reynolds. No. 1,383,025; June 28; v. 287; p. 678.
- Clothes-locker, Sanitary. H. M. Lamb. No. 1,378,802; May 17; v. 286; p. 573.
- Clothes-pounder. C. Bowman. No. 1,398,061; Nov. 22.
- Clothes-presses, Steam-condenser for. J. Buff. No. 1,389,434; Aug. 30; v. 289; p. 924.
- Clothes-pressing apparatus. A. E. Snow. No. 1,397,300; Nov. 15.
- Clothes-protecting device. J. L. Benson. No. 1,386,755; Aug. 9; v. 289; p. 228.
- Clothes-rack. M. Feldman. (Reissue.) No. 15,037; Feb. 8; v. 283; p. 321.
- Clothes-rack. W. A. Nielson. No. 1,364,509; Jan. 4; v. 282; p. 90.
- Clothes-rack. L. B. Wells. No. 1,372,580; Mar. 22; v. 284; p. 706.
- Clothes-rack, Folding. H. S. Geer. No. 1,401,532; Dec. 27.
- Clothes rack or hanger. J. Row and C. F. Smith. No. 1,396,692; Nov. 8.
- Clothes-stick. W. W. Crocker. No. 1,386,992; Aug. 9; v. 289; p. 277.
- Clothes-tongs. J. M. Flitcraft. No. 1,397,628; Nov. 22.
- Clothes-washer. L. J. Grubman. No. 1,374,850; Apr. 12; v. 285; p. 326.
- Clothes-washer, Bucket. J. A. Wright. No. 1,395,783; Nov. 1.
- Clothes-washer, Fountain. I. Schenker and M. S. Wiland. No. 1,372,980; Mar. 29; v. 284; p. 827.
- Clothes-wringer. J. L. Coffield. No. 1,378,325; May 17; v. 286; p. 480.
- Clothes-wringer. W. J. Conlon. No. 1,375,130; Apr. 19; v. 285; p. 442.
- Clothes-wringer. G. R. Townsend. No. 1,401,210; Dec. 27.
- Clothes-wringer attachment. J. E. Geissinger. No. 1,361,156; Mar. 8; v. 284; p. 311.
- Clothes-wringer, Safety device for. N. Mintz and C. C. Hiers. No. 1,381,423; June 14; v. 287; p. 261.
- Clothes-wringers, Attachment for. J. E. Geissinger. No. 1,365,907; Jan. 18; v. 282; p. 444.
- Clothes-wringers, Drain-pan for. W. H. Meyer. No. 1,398,337; Nov. 29.
- Clothes-wringers, Safety-guard for. J. D. Ross. No. 1,382,242; June 21; v. 287; p. 474.
- Clothesbrush, Foldable. W. R. Henkle. No. 1,374,010; Apr. 5; v. 285; p. 125.
- Clothesline. M. H. McKinley. No. 1,389,681; Sept. 6; v. 290; p. 24.
- Clothesline attachment. A. H. Richards. No. 1,368,839; Feb. 15; v. 283; p. 488.



- Clothesline-bracket. P. J. G. Vetter. No. 1,394,239; Oct. 18.
- Clothesline-clamp. W. A. Johnson. No. 1,368,805; Feb. 15; v. 283; p. 481.
- Clothesline-clamp. H. Kistner. No. 1,385,837; July 26; v. 288; p. 738.
- Clothesline device. D. E. Roganson. No. 1,387,074; Aug. 9; v. 289; p. 293.
- Clothesline-fastener. A. Johnson and W. R. Anderson. No. 1,381,311; June 14; v. 287; p. 240.
- Clothesline-fastener. F. C. Reinhard. No. 1,368,754; Feb. 15; v. 283; p. 471.
- Clothesline-fastener. E. P. Weichel. No. 1,369,149; Feb. 22; v. 283; p. 587.
- Clothesline-fixture. H. A. Hazlett. No. 1,380,378; June 7; v. 287; p. 10.
- Clothesline-holder. G. A. Hopkins. No. 1,397,051; Nov. 15.
- Clothesline holder and tightener. J. V. Lofquist. No. 1,373,967; Apr. 5; v. 285; p. 115.
- Clothesline-pole. D. I. Schell. No. 1,374,609; Apr. 12; v. 285; p. 279.
- Clothesline-protector. I. Schenker. No. 1,380,843; June 7; v. 287; p. 100.
- Clothesline-pulley. W. Hahn. No. 1,373,130; Mar. 29; v. 284; p. 855.
- Clothesline pulley and fastener. A. Fox. No. 1,377,768; May 10; v. 286; p. 322.
- Clothesline-pulling clutch. S. J. Fleming. No. 1,388,455; Aug. 23; v. 289; p. 677.
- Clothesline-reel. K. L. Križevičius. No. 1,378,686; May 17; v. 286; p. 551.
- Clothesline-support. R. E. Hines. No. 1,387,266; Aug. 9; v. 289; p. 329.
- Clothesline-support. M. C. Meyers. No. 1,365,264; Jan. 11; v. 282; p. 279.
- Clothesline-support. W. H. Ortman. No. 1,368,650; Feb. 15; v. 283; p. 451.
- Clothesline support and reel. Combined. E. R. Warner. No. 1,373,279; Mar. 29; v. 284; p. 886.
- Clothespin. R. E. Barneck. No. 1,397,199; Nov. 15.
- Clothespin. Z. Fonville. No. 1,367,181; Feb. 1; v. 283; p. 59.
- Clothespin. A. J. Hoen. No. 1,373,729; Apr. 5; v. 285; p. 67.
- Clothespin. T. S. Justus. No. 1,395,424; Nov. 1.
- Clothespin. F. M. Kilfoyle. No. 1,399,969; Dec. 6.
- Clothespin. P. S. Lonviere. No. 1,372,524; Mar. 22; v. 284; p. 695.
- Clothespin. J. Muck. No. 1,378,890; May 24; v. 286; p. 662.
- Clothespin. C. Schroeder and A. Kuehl. No. 1,399,661; Dec. 6.
- Clothespin. H. Stammer. No. 1,391,590; Sept. 20; v. 290; p. 564.
- Clothespin. G. W. Walker. No. 1,368,378; Feb. 15; v. 283; p. 397.
- Clothespin and manufacture thereof. A. L. Prevost. No. 1,382,931; June 28; v. 287; p. 660.
- Clothespin-container. I. I. Heyman. No. 1,374,451; Apr. 12; v. 285; p. 249.
- Clothespins, Machine for making wire. J. Muck. No. 1,389,893; Sept. 6; v. 290; p. 68.
- Clothesprop. J. G. Haugh. No. 1,365,589; Jan. 11; v. 282; p. 342.
- Clothesrack, Folding. H. G. Runne. No. 1,399,156; Dec. 6.
- Clothing and other articles, Apparatus for sorting. A. M. Stokoe. No. 1,388,385; Aug. 23; v. 289; p. 662.
- Clothing, Manufacturing ladies' ready-to-wear. J. Scherfer. No. 1,398,117; Nov. 22.
- Clothometer-gage. J. Th. Pedersen. No. 1,398,565; Nov. 29.
- Clutch. F. G. Alborn. No. 1,368,596; Feb. 15; v. 283; p. 440.
- Clutch. G. and G. H. Amosen. No. 1,384,225; July 12; v. 288; p. 249.
- Clutch. E. H. Belden. No. 1,381,960; June 21; v. 281; p. 422.
- Clutch. E. H. Belden. No. 1,390,330; Sept. 13; v. 290; p. 246.
- Clutch. E. G. Bendl. No. 1,384,820; July 19; v. 288; p. 454.
- Clutch. C. C. Blake. No. 1,394,805; Oct. 25.
- Clutch. C. A. Brown. No. 1,368,888; Feb. 15; v. 283; p. 497.
- Clutch. L. R. Buckendale. No. 1,384,511; July 12; v. 288; p. 309.
- Clutch. A. A., Jr. and H. Butterworth. No. 1,397,401; Nov. 15.
- Clutch. E. B. Cushman. No. 1,391,668; Sept. 27; v. 290; p. 652.
- Clutch. F. S. Floeter. No. 1,380,789; June 7; v. 287; p. 89.
- Clutch. H. Ford. No. 1,375,956; Apr. 26; v. 285; p. 632.
- Clutch. B. M. W. Hanson. No. 1,381,990; June 21; v. 287; p. 428.
- Clutch. T. J. Kelly. No. 1,384,324; July 12; v. 288; p. 270.
- Clutch. M. S. Larson. No. 1,371,251; Mar. 15; v. 284; p. 392.
- Clutch. A. H. Leipert. No. 1,400,557; Dec. 20.
- Clutch. J. Macho. No. 1,364,392; Jan. 4; v. 282; p. 67.
- Clutch. S. M. D. Miller. No. 1,400,565; Dec. 20.
- Clutch. C. F. Pearson. No. 1,374,319; Apr. 12; v. 285; p. 223.
- Clutch. O. G. Pfeiffer. No. 1,372,245; Mar. 22; v. 284; p. 642.
- Clutch. B. E. Richardson. No. 1,396,343; Nov. 8.
- Clutch. E. Rolker. No. 1,379,877; May 31; v. 286; p. 922.
- Clutch. W. E. Stoy. No. 1,379,728; May 31; v. 286; p. 894.
- Clutch. A. Sundh. No. 1,372,986; Mar. 29; v. 284; p. 828.
- Clutch. J. W. Thropp. No. 1,380,271; May 31; v. 286; p. 996.
- Clutch. J. G. Vincent. No. 1,393,056; Oct. 11.
- Clutch. T. Walsh. No. 1,375,191; Apr. 19; v. 285; p. 454.
- Clutch and brake mechanism. A. J. Lavoie. Nos. 1,395,840-1; Nov. 1.
- Clutch and change-speed mechanism. O. R. Strome. No. 1,374,039; Apr. 5; v. 285; p. 128.
- Clutch and transmission device. A. M. Hubbard. No. 1,369,244; Feb. 22; v. 283; p. 605.
- Clutch and transmission mechanism. W. T. Mottier. No. 1,377,498; May 10; v. 286; p. 271.
- Clutch, Automatic. L. Duca. No. 1,375,576; Apr. 19; v. 285; p. 527.
- Clutch, Automatic. H. P. Jensen - Beirundd. No. 1,380,306; May 31; v. 286; p. 1003.
- Clutch, Automatic safety-. K. C. Zanon. No. 1,391,601; Sept. 20; v. 290; p. 566.
- Clutch-band and casing therefor. W. F. Hudson. No. 1,398,191; Nov. 22.
- Clutch control, Automatic. A. McDannold. No. 1,371,918; Mar. 15; v. 284; p. 522.
- Clutch-controlling mechanism. J. G. Koppel. No. 1,376,341; Apr. 26; v. 285; p. 705.
- Clutch, Electromagnetic. M. Preuss. No. 1,387,902; Aug. 16; v. 289; p. 509.
- Clutch, Fluid. A. Sundh. No. 1,372,984; Mar. 29; v. 284; p. 828.
- Clutch, Fluid. A. Sundh. No. 1,372,985; Mar. 29; v. 284; p. 828.
- Clutch, Fluid-pressure. A. O. Higinbotham. No. 1,368,434; Feb. 15; v. 283; p. 408.
- Clutch for motors. W. J. O'Leary. No. 1,395,289; Nov. 1.
- Clutch for the engagement and disengagement of shafts. J. H. and C. Dalton. No. 1,376,007; Apr. 26; v. 285; p. 641.
- Clutch, Friction-. G. Alber. No. 1,371,719; Mar. 15; v. 284; p. 485.
- Clutch, Friction-. J. A. Bried. No. 1,389,855; Sept. 6; v. 290; p. 60.
- Clutch, Friction-. C. O. Hansen. No. 1,373,810; Apr. 5; v. 285; p. 84.
- Clutch, Friction-. W. G. Hawley. No. 1,398,554; Nov. 29.
- Clutch, Friction-. A. C. Jacobi. No. 1,383,813; July 5; v. 288; p. 115.
- Clutch, &c., Friction-. P. E. Nordquist. No. 1,398,564; Nov. 29.
- Clutch, Friction-. J. C. Ollard. No. 1,371,391; Mar. 15; v. 284; p. 421.
- Clutch, Friction-. W. G. Price. No. 1,397,902; Nov. 22.
- Clutch, Friction-. C. Seybold. No. 1,365,733; Jan. 18; v. 282; p. 409.
- Clutch-lock. N. Anderson. No. 1,383,278; July 5; v. 288; p. 4.
- Clutch mechanism. A. H. De Voe. No. 1,388,412; Aug. 23; v. 289; p. 667.
- Clutch mechanism. A. B. Fowler. No. 1,386,054; Aug. 2; v. 289; p. 19.
- Clutch mechanism. H. M. Giffin. No. 1,392,932; Oct. 11.
- Clutch mechanism. O. W. Greene. No. 1,392,936; Oct. 11.
- Clutch mechanism. A. W. Harris. No. 1,398,552; Nov. 29.
- Clutch mechanism. C. H. Norton and A. Turner. No. 1,389,267; Aug. 30; v. 289; p. 890.
- Clutch mechanism. V. W. Pagé. No. 1,376,033; Apr. 26; v. 285; p. 646.
- Clutch mechanism. M. Sitney. No. 1,394,448; Oct. 18.
- Clutch mechanism, Reverse. T. R. Livingston. No. 1,372,759; Mar. 29; v. 284; p. 781.
- Clutch operating and holding device. J. V. Bruner. No. 1,375,895; Apr. 26; v. 285; p. 620.
- Clutch-operating mechanism. E. H. Carroll. No. 1,383,525; July 5; v. 288; p. 55.
- Clutch or free-wheel mechanism. A. C. Hayward. No. 1,381,876; June 14; v. 287; p. 347.
- Clutch-pedal lock. J. C. Fligge. No. 1,364,988; Jan. 11; v. 282; p. 226.
- Clutch, Power-transmission. S. L. Bailey. No. 1,371,542; Mar. 15; v. 284; p. 451.
- Clutch-release. J. Mueller. No. 1,383,328; July 5; v. 288; p. 14.
- Clutch-release, Automatic. T. J. Flaherty. No. 1,378,777; May 17; v. 286; p. 568.
- Clutch-release, Automatic. A. R. Flugekvam. No. 1,372,413; Mar. 22; v. 284; p. 674.
- Clutch-release catch. W. I. Nelson. No. 1,378,714; May 17; v. 286; p. 556.
- Clutch, Resilient. H. C. Smith. No. 1,387,017; Aug. 9; v. 289; p. 281.
- Clutch, Reversible. J. Otti. No. 1,393,693; Oct. 11.



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- Clutch segments, Tightener-yoke for friction-. E. McLeod. No. 1,393,895; Oct. 18.
- Clutch-spring compressor. H. C. Hunn. No. 1,372,350; Mar. 22; v. 284; p. 662.
- Clutch throw-out, Motor-. E. M. Heylman. No. 1,378,953; May 24; v. 286; p. 674.
- Clutch-trip mechanism. W. H. Kappes. No. 1,391,190; Sept. 20; v. 290; p. 482.
- Clutch, Wind-. M. S. Dunkelberger. No. 1,377,008; May 3; v. 286; p. 120.
- Clutches, Adjusting means for friction-. T. L. Fawick. No. 1,390,352; Sept. 13; v. 290; p. 251.
- Clutches, Lever mechanism for. E. S. Charles. No. 1,373,410; Apr. 5; v. 285; p. 6.
- Clutches, Plastic composition used as a power-transmitting element in fluid-. D. Lake. No. 1,368,945; Feb. 15; v. 283; p. 508.
- Coal and concentrating ores and minerals, Method and apparatus for washing. T. M. Chance. No. 1,392,399; Oct. 4.
- Coal and concentrating ores and minerals, Washing. T. M. Chance. No. 1,392,400; Oct. 4.
- Coal and other material, Process of and apparatus for distilling. W. Thomas. No. 1,365,128; Jan. 11; v. 282; p. 252.
- Coal, Apparatus for mining. N. D. Levin. No. 1,378,830; May 17; v. 286; p. 577.
- Coal-auger nut, Sectional. J. H. Mason. (Reissue.) No. 15,112; May 24; v. 286; p. 797.
- Coal-bearing water and streams, Recovering coal, held in suspension, from. C. E. Holland. No. 1,397,735; Nov. 22.
- Coal, Brick-. R. A. Kratochwill. No. 1,376,706; May 3; v. 286; p. 61.
- Coal combustion, Apparatus for indicating the condition of. Z. Olsson. No. 1,383,144; June 28; v. 287; p. 701.
- Coal-conveyers, Attachment for. C. G. Walker. No. 1,375,988; Apr. 26; v. 285; p. 637.
- Coal-cutting machine. W. M. Thomas. No. 1,364,903; Jan. 11; v. 282; p. 209.
- Coal-cutting machine, Universal. A. L. Chopin. No. 1,384,236; July 12; v. 288; p. 252.
- Coal-digger. J. Newark. No. 1,368,189; Feb. 8; v. 283; p. 313.
- Coal-dust furnace. J. Taylor. No. 1,373,776; Apr. 5; v. 285; p. 76.
- Coal, Feed-regulator for powdered. H. Thomas and J. Dahlstrom. No. 1,388,129; Aug. 16; v. 289; p. 553.
- Coal-feeder, Mechanical. R. G. Miller. No. 1,372,765; Mar. 29; v. 284; p. 782.
- Coal-furnace lighter. R. B. Townley. No. 1,393,469; Oct. 11.
- Coal-handling apparatus. J. H. D. Petersen. No. 1,375,105; Apr. 19; v. 285; p. 437.
- Coal-handling device. W. Robertson. No. 1,368,456; Feb. 15; v. 283; p. 413.
- Coal-mine curtain-rod. J. M. North. No. 1,398,909; Nov. 29.
- Coal-mining machine. T. Donohoe. No. 1,387,886; Aug. 16; v. 289; p. 506.
- Coal-oil burner. R. J. Walker and J. J. Shane. No. 1,366,982; Feb. 1; v. 283; p. 20.
- Coal, ore, &c., Apparatus for handling. C. S. Williamson. No. 1,392,382; Oct. 4.
- Coal piles, Apparatus for preventing spontaneous combustion in. J. A. Thomas. No. 1,399,036; Dec. 6.
- Coal-tar, Treating. W. Anderson. No. 1,396,003; Nov. 8.
- Coal-tipple. H. Rainey. No. 1,378,276; May 17; v. 286; p. 472.
- Coal, Transporting. W. E. Hamilton. No. 1,385,447; July 26; v. 288; p. 659.
- Coal-trimming device. G. B. Holbert. No. 1,382,359; June 21; v. 287; p. 497.
- Coal-washer. W. Brinley and W. Collins. No. 1,378,521; May 17; v. 286; p. 518.
- Coal, wood, shales, &c., Apparatus for devolatilizing. C. M. Garland. No. 1,391,825; Sept. 27; v. 290; p. 684.
- Coaster. F. A. Hayes. No. 1,367,965; Feb. 8; v. 283; p. 270.
- Coaster-brake. A. J. Mottlau. No. 1,398,883; Nov. 29.
- Coaster-brake, Back-pedaling. A. Kristen. No. 1,399,711; Dec. 6.
- Coaster, Child's. P. A. Arner. No. 1,389,418; Aug. 30; v. 289; p. 921.
- Coaster, Child's wheel-. C. F. Israel. No. 1,364,280; Jan. 4; v. 282; p. 46.
- Coasting apparatus, Elevated. P. M. Swaim. No. 1,392,719; Oct. 4.
- Coasting process. L. A. and A. J. Sanders. No. 1,364,587; Jan. 4; v. 282; p. 104.
- Coat. M. Berkwiits. No. 1,371,841; Mar. 15; v. 284; p. 508.
- Coat and hat hanger, Combined. J. J. Primeau. No. 1,389,218; Aug. 30; v. 289; p. 880.
- Coat and trousers hanger. J. P. Strand. No. 1,370,713; Mar. 8; v. 284; p. 228.
- Coat-collar fastener. G. F. Schlote. No. 1,380,257; May 31; v. 286; p. 993.
- Coat, Electrically-heated. A. Negromanti. No. 1,379,356; May 24; v. 286; p. 750.
- Coat-hanger. H. E. Kelley. No. 1,379,105; May 24; v. 286; p. 702.
- Coating aluminum and making same, Composition for. R. Hurley. No. 1,372,290; Mar. 22; v. 284; p. 651.
- Coating and forming machine. I. Shafer and C. A. Small. No. 1,393,401; Oct. 11.
- Coating and impregnating agent and making it. A. J. Rowland. No. 1,393,832; Oct. 18.
- Coating and impregnating agent and making it. A. J. Rowland. No. 1,393,833; Oct. 18.
- Coating and tool or appliance for applying coating. H. W. Day. No. 1,369,520; Feb. 22; v. 283; p. 658.
- Coating apparatus. J. W. Cosgrove. No. 1,380,361; June 7; v. 287; p. 7.
- Coating composition. F. Cook. No. 1,394,280; Oct. 18.
- Coating composition and making same. M. I. Strauss. No. 1,386,380; Aug. 2; v. 289; p. 82.
- Coating composition, Liquid. H. A. Babis. No. 1,392,040; Sept. 27; v. 290; p. 729.
- Coating composition, Surface-. A. C. Holzapfel. No. 1,379,018; May 24; v. 286; p. 686.
- Coating composition, Surface-. A. C. Holzapfel. No. 1,379,019; May 24; v. 286; p. 686.
- Coating device. G. C. Snyder. No. 1,391,281; Sept. 20; v. 290; p. 501.
- Coating for flongs. O. Struensee. No. 1,385,284; July 19; v. 288; p. 549.
- Coating-machine. J. W. Cosgrove. No. 1,380,360; June 7; v. 287; p. 7.
- Coating-machine. W. Costello, Jr. No. 1,394,281; Oct. 18.
- Coating-machine. J. R. Massey. No. 1,390,367; Sept. 13; v. 290; p. 253.
- Coating-machine. D. H. McNulty, Jr. No. 1,374,938; Apr. 19; v. 285; p. 404.
- Coating-machine. H. Ohashi. No. 1,393,637; Oct. 11.
- Coating material, Method and apparatus of. A. S. Speer. No. 1,379,368; May 24; v. 286; p. 753.
- Coating material to articles, Machine for applying liquid. E. R. Erickson. No. 1,371,082; Mar. 8; v. 284; p. 297.
- Coating metals. C. Dantsizen. No. 1,381,085; June 7; v. 287; p. 146.
- Coating, Method of and apparatus for applying. H. W. Day. No. 1,368,612; Feb. 15; v. 283; p. 443.
- Coating mixture and film, Light-sensitive collodion. J. Rheinberg. No. 1,396,592; Nov. 8.
- Coating or covering material, Machine for. E. C. Weeks. No. 1,393,860; Oct. 18.
- Coating process, Lead-. R. J. Shoemaker. No. 1,371,445; Mar. 15; v. 284; p. 432.
- Coating reticulated forms. A. J. Hall. No. 1,396,834; Nov. 15.
- Coating steel sheets with tin. S. Peacock. No. 1,396,051; Nov. 8.
- Coating substances to protect them or render them non-porous, Material or producing materials for. C. A. Cleghorn. No. 1,396,023; Nov. 8.
- Coating the surfaces of flexible foundations, Apparatus for. R. A. McQuitty. No. 1,388,353; Aug. 23; v. 289; p. 655.
- Coating to cans, Method of and machine for applying a. O. Voss. No. 1,380,610; June 7; v. 287; p. 54.
- Coating, Tool for applying. H. W. Day. No. 1,380,866; June 7; v. 287; p. 104.
- Coating, Tool for applying. H. W. Day. No. 1,401,397; Dec. 27.
- Coating-machine. H. M. Nicholls. No. 1,400,310; Dec. 13.
- Coatings, Composition for protective. C. S. Palmer. No. 1,395,451; Nov. 1.
- Coatings tester, Metal-. A. S. Cushman. No. 1,372,405; Mar. 22; v. 284; p. 672.
- Cock. A. F. Auderer. No. 1,393,418; Oct. 11.
- Cock. A. W. Schenker. No. 1,384,159; July 12; v. 288; p. 236.
- Cock, Air-. W. M. Robinson. No. 1,389,384; Aug. 30; v. 289; p. 914.
- Cock and check-valve, Stop-. C. G. Koplin. No. 1,367,911; Feb. 8; v. 283; p. 259.
- Cock and strainer, Combined stop-. A. C. Schuermann. No. 1,394,762; Oct. 25.
- Cock and valve. E. S. Stanley and C. B. Gay. No. 1,378,492; May 17; v. 286; p. 512.
- Cock, Angle-. W. F. Ullman and W. C. Hillsinger. No. 1,390,314; Sept. 13; v. 290; p. 243.
- Cock, Automatic cylinder-. J. J. Carmichael. No. 1,395,796; Nov. 1.
- Cock, Automatic cylinder-. C. R. Nordberg and W. F. Koon. No. 1,394,337; Oct. 18.
- Cock, Ball-. M. H. Greeson. No. 1,384,450; July 12; v. 288; p. 296.
- Cock, Ball-. O. H. Jones. No. 1,394,022; Oct. 18.
- Cock, Blow-off. J. B. Ruskoski. No. 1,372,248; Mar. 22; v. 284; p. 642.
- Cock, Gage-. M. Melvin. No. 1,377,360; May 10; v. 286; p. 244.
- Cock holder, Angle-. L. G. Miller. No. 1,381,577; June 14; v. 287; p. 290.
- Cock-operating device, Drain-. W. H. Stiglitz. No. 1,396,540; Nov. 8.
- Cock or faucet. F. Schuler. No. 1,391,012; Sept. 20; v. 290; p. 446.
- Cock, Plug-. J. C. Martin, Jr. No. 1,365,116; Jan. 11; v. 282; p. 250.
- Cock, Safety scaleproof automatic gage-. L. Whipple and Z. Oneal. No. 1,388,624; Aug. 23; v. 289; p. 708.
- Cock, Stop or waste. J. G. King. No. 1,398,329; Nov. 29.



- Cocks, Holder for angle-. L. G. Miller. No. 1,381,578; June 14; v. 287; p. 200.
- Cocks, Wrench for stop and waste. E. C. Buehler. No. 1,389,736; Sept. 6; v. 290; p. 35.
- Cocoa waste, Treatment of. E. de Grousseau and A. Viconne. No. 1,386,166; Aug. 2; v. 289; p. 41.
- Cocoanut food product. W. S. Cookson. No. 1,374,880; Apr. 12; v. 285; p. 332.
- Cocoanut-husker. F. N. Fons. No. 1,367,809; Feb. 8; v. 283; p. 240.
- Cocoanut-milk and making same, Concentrated. W. S. Cookson. No. 1,374,879; Apr. 12; v. 285; p. 331.
- Cocoanut-shell-cracking machine. H. C. Jones. No. 1,372,293; Mar. 22; v. 284; p. 651.
- Cocoanut-shells, Removing. F. Baker, Jr. No. 1,374,899; Apr. 19; v. 285; p. 397.
- Cocoanuts, Extracting oil from. W. Alexander. No. 1,366,338; Jan. 25; v. 282; p. 571.
- Cocoanuts, Removing shells from. F. Baker, Jr., and S. Cooper. No. 1,380,859; June 7; v. 287; p. 103.
- Cocoanuts, Separation of food products from fresh. W. Alexander. No. 1,366,339; Jan. 25; v. 282; p. 571.
- Code, Illustrated. L. Harmuth. No. 1,387,261; Aug. 9; v. 289; p. 328.
- Code-reading instrument. P. Zuraweck. No. 1,370,870; Mar. 8; v. 284; p. 257.
- Coding and decoding device. J. P. Griffiths. No. 1,389,559; Aug. 30; v. 289; p. 948.
- Coffee, Addition compound for. N. C. Emtage. No. 1,384,692; July 12; v. 288; p. 348.
- Coffee and like infusions, Machine for making. P. T. Arduino. No. 1,390,008; Sept. 6; v. 290; p. 90.
- Coffee and peanut roaster, Electric. M. T. Seymour. No. 1,381,243; June 14; v. 287; p. 228.
- Coffee-beans, &c., and product resulting therefrom, Treating. N. Rosewater. No. 1,400,992; Dec. 20.
- Coffee-beans, Producing a substitute for raw. A. Heine-mann. No. 1,400,161; Dec. 13.
- Coffee beans, Recovery of aromas, &c., escaping during comminution of. C. W. Trigg. No. 1,367,726; Feb. 8; v. 283; p. 225.
- Coffee, Brewing. B. H. Calkin. No. 1,370,782; Mar. 8; v. 284; p. 241.
- Coffee-can and attachment. W. S. Miller. No. 1,394,210; Oct. 18.
- Coffee, Cereal. T. Kloss. No. 1,377,838; May 10; v. 286; p. 336.
- Coffee compound, Dry. J. Greenberg. No. 1,381,821; June 14; v. 287; p. 232.
- Coffee-cooking device. A. Tortorice. No. 1,382,574; June 21; v. 287; p. 538.
- Coffee extract, Adding segregated aromas to. D. S. Pratt and C. W. Trigg. No. 1,367,716; Feb. 8; v. 283; p. 222.
- Coffee extract and the product, Making water-soluble. D. S. Pratt and C. W. Trigg. No. 1,367,715; Feb. 8; v. 283; p. 222.
- Coffee-making device. J. D. Houck. No. 1,396,685; Nov. 8.
- Coffee, Making soluble. H. Anhaltzer. No. 1,365,443; Jan. 11; v. 282; p. 313.
- Coffee-percolator. B. H. and F. L. Calkin. No. 1,389,239; Aug. 30; v. 289; p. 885.
- Coffee-percolator. R. E. Farmer. No. 1,389,298; Aug. 30; v. 289; p. 897.
- Coffee-pot. B. Rubin. No. 1,385,891; July 26; v. 288; p. 749.
- Coffee-pot. G. Tumarello. No. 1,381,678; June 14; v. 287; p. 309.
- Coffee pot, Drip-. E. S. Gardiner. No. 1,389,299; Aug. 30; v. 289; p. 897.
- Coffee, Producing soluble concentrated. J. W. Scott. No. 1,393,045; Oct. 11.
- Coffee-roasters, Cooling-receiver for. H. H. Moenkhaus. No. 1,389,964; Sept. 6; v. 290; p. 82.
- Coffee, Roasting. H. Prell. No. 1,398,115; Nov. 22.
- Coffee-roasting machine. F. A. Wilcox and E. L. McGroby. No. 1,377,536; May 10; v. 286; p. 277.
- Coffee-steep. A. Johnstone. No. 1,400,749; Dec. 20.
- Coffee substitute compound, Prepared dry. J. Greenberg. No. 1,381,822; June 14; v. 287; p. 336.
- Coffee, tea, or similar beverages, Device for making. H. Galt. No. 1,400,214; Dec. 13.
- Coffee-urn. J. A. Holman. No. 1,385,453; July 26; v. 288; p. 660.
- Coffee-urn. H. J. Strohbach. No. 1,385,593; July 26; v. 288; p. 689.
- Coffee-urns, Attachment for. J. N. Shaw. No. 1,369,557; Feb. 22; v. 283; p. 666.
- Coffeepot. B. Olshaskie. No. 1,394,040; Oct. 18.
- Cofferdam. H. D. Deam. No. 1,395,631; Nov. 1.
- Coffin-handle. C. J. Squires. No. 1,367,330; Feb. 1; v. 283; p. 89.
- Coil, Electrical searching-. A. R. Comstock. No. 1,401,586; Dec. 27.
- Coil-making machine, Wire-. J. G. Zwicker. No. 1,365,015; Jan. 11; v. 282; p. 232.
- Coil-mounting. R. F. Gowen. No. 1,398,372; Nov. 29.
- Coil, Reactance-. G. Harlow. No. 1,389,193; Aug. 30; v. 289; p. 876.
- Coil-spring. V. W. Kliesrath and R. Knopp. No. 1,365,701; Jan. 18; v. 282; p. 403.
- Coil, Sticky-fly-ribbon. W. J. Wagner. No. 1,379,734; May 31; v. 286; p. 895.
- Coil structure, Induction-. A. A. Kent. No. 1,391,256; Sept. 20; v. 290; p. 496.
- Coil-supporting device. E. Prugger. No. 1,368,350; Feb. 15; v. 283; p. 392.
- Coil terminal. H. C. Egerton. No. 1,400,038; Dec. 13.
- Coil-winder. J. F. Cullin. No. 1,397,316; Nov. 15.
- Coils, Construction of reactance-. A. M. Curtis. No. 1,367,734; Feb. 8; v. 283; p. 226.
- Coils, Manufacturing inductance-. I. L. Milton. No. 1,378,969; May 24; v. 286; p. 676.
- Coiling-machine. T. F. Lamb. No. 1,395,190; Oct. 25.
- Coiling machine, Hoop-. S. J. Caroland. No. 1,397,402; Nov. 15.
- Coin-actuated dispensing apparatus. M. Weiner. No. 1,378,069; May 17; v. 286; p. 433.
- Coin and ticket fare register. J. M. Johnson. (Reissue.) No. 15,123; June 14; v. 287; p. 351.
- Coin-bag. R. Spurgin. No. 1,382,394; June 21; v. 287; p. 504.
- Coin-box. C. C. Kaskell. No. 1,391,063; Sept. 20; v. 290; p. 457.
- Coin-changing apparatus. J. C. Callais. No. 1,364,864; Jan. 11; v. 282; p. 202.
- Coin-collect system. C. L. Goodrum. No. 1,386,701; Aug. 9; v. 289; p. 217.
- Coin-collecting and change-making device. G. A. Perdue. No. 1,399,650; Dec. 6.
- Coin-collecting, registering, and change delivering apparatus. H. A. Drew. No. 1,384,436; July 12; v. 288; p. 294.
- Coin-container. V. O. Keys. No. 1,365,412; Jan. 11; v. 282; p. 307.
- Coin-controlled devices, Counter-operating mechanism for. W. C. Rees. No. 1,396,342; Nov. 8.
- Coin-controlled electric switch. J. G. Bassette. No. 1,378,933; May 24; v. 286; p. 670.
- Coin-controlled liquid-dispensing apparatus. F. Dobson. No. 1,400,348; Dec. 13.
- Coin-controlled lock. N. Kretzer. No. 1,384,766; July 19; v. 288; p. 443.
- Coin-controlled lock mechanism. R. B. Buzzaird. No. 1,393,201; Oct. 11.
- Coin-controlled locker-lock. R. B. Buzzaird. No. 1,373,863; Apr. 5; v. 285; p. 94.
- Coin-controlled machine. F. A. Bonenberger. No. 1,384,230; July 12; v. 288; p. 250.
- Coin-controlled machines, Coin-testing device for. A. D. Grover. No. 1,381,186; June 14; v. 287; p. 217.
- Coin-controlled machines, Coin-testing mechanism for. L. Bertram. No. 1,387,681; Aug. 16; v. 289; p. 465.
- Coin-controlled mechanism. T. Glover. No. 1,367,371; Feb. 1; v. 283; p. 97.
- Coin-controlled mechanism. F. W. Stice. No. 1,396,385; Nov. 8.
- Coin-counting device. H. Groff. No. 1,400,053; Dec. 13.
- Coin-counting machine. H. J. Baur. No. 1,382,050; June 21; v. 287; p. 439.
- Coin-counting machine. E. P. Donnellan. No. 1,389,634; Sept. 6; v. 290; p. 15.
- Coin-delivering machine. B. C. Hoefler. No. 1,388,861; Aug. 30; v. 289; p. 809.
- Coin-delivery apparatus. E. J. Brandt. No. 1,401,133; Dec. 27.
- Coin-freed apparatus. T. B. Drybrough. No. 1,400,037; Dec. 13.
- Coin-freed delivery apparatus. H. Brooker. No. 1,398,766; Nov. 29.
- Coin-freed mechanism, Construction of. T. Glover. No. 1,367,372; Feb. 1; v. 283; p. 98.
- Coin-freed mechanism, Construction of coin-carriers for. T. Glover. No. 1,367,370; Feb. 1; v. 283; p. 97.
- Coin-handling apparatus. S. J. Brune. No. 1,396,923; Nov. 15.
- Coin-handling apparatus. E. B. Paul. No. 1,374,468; Apr. 12; v. 285; p. 252.
- Coin-handling apparatus-. E. B. Paul. No. 1,390,583; Sept. 13; v. 290; p. 297.
- Coin-handling apparatus. E. B. Paul. No. 1,390,584; Sept. 13; v. 290; p. 297.
- Coin-handling device. J. B. Norris. No. 1,385,885; July 26; v. 288; p. 748.
- Coin-holder. M. L. Greenstreet. No. 1,378,227; May 17; v. 286; p. 462.
- Coin-locking mechanism. M. H. Mandelbaum and B. R. Webster. No. 1,376,959; May 3; v. 286; p. 111.
- Coin-operated devices, Control mechanism for. H. S. Mills. No. 1,882,308; June 21; v. 287; p. 487.
- Coin receiving and delivering device. V. A. Leach. No. 1,391,840; Sept. 27; v. 290; p. 687.
- Coin-register, Motor-driven. A. H. Woodward. No. 1,372,857; Mar. 29; v. 284; p. 801.
- Coin separating and counting machine, Automatic. H. W. Roeling, E. H. Williams, and J. G. Bauer. No. 1,378,720; May 17; v. 286; p. 557.
- Coin-sorter. E. C. Stumme. No. 1,376,904; May 3; v. 286; p. 100.
- Coin-stacker, Automatic. F. D. Lewis. No. 1,371,383; Mar. 15; v. 284; p. 419.
- Coin-tube. C. L. Downey. No. 1,386,770; Aug. 9; v. 289; p. 231.
- Coin-vending machine. E. J. Koehler. No. 1,394,559; Oct. 25.
- Coin-wrapper. C. L. Downey. No. 1,379,751; May 31; v. 286; p. 898.



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- Coin-wrapping device. A. D. Mohr. No. 1,397,444; Nov. 15.
- Coke. Apparatus for quenching. G. A. Flood. No. 1,365,974; Jan. 18; v. 282; p. 457.
- Coke-oven-charging car. J. Becker. No. 1,376,313; Apr. 26; v. 285; p. 700.
- Coke-oven door. W. E. Roberts. No. 1,395,061; Oct. 25.
- Coke-oven door and doorway. L. Wilputte. No. 1,399,594; Dec. 6.
- Coke-oven-door machine. J. Krippner. No. 1,397,736; Nov. 22.
- Coke-oven-door operating and pusher machines, Interlock and signal device for. C. T. Keigley. No. 1,368,163; Feb. 8; v. 283; p. 307.
- Coke-oven smoke-discharging means. J. Becker. No. 1,376,314; Apr. 26; v. 285; p. 700.
- Coke-oven-wall construction. L. Wilputte. No. 1,399,595; Dec. 6.
- Coke-ovens, and the like, Heating-wall for. A. Roberts. No. 1,399,275; Dec. 6.
- Coke quenching and handling apparatus. L. Wilputte. No. 1,370,453; June 7; v. 287; p. 24.
- Coke-shovel. E. F. Griffin. No. 1,378,782; May 17; v. 286; p. 569.
- Colander. A. G. Berg. No. 1,375,812; Apr. 26; v. 285; p. 603.
- Cold-storage structure. A. C. Legg. No. 1,379,269; May 24; v. 286; p. 733.
- Collapsible box. H. P. Eastman. No. 1,394,154; Oct. 18.
- Collapsible box. H. Greening. No. 1,377,678; May 10; v. 286; p. 304.
- Collapsible box. C. A. Scotcher. No. 1,374,473; Apr. 12; v. 285; p. 253.
- Collapsible box. J. H. Sprague. No. 1,371,651; Mar. 15; v. 284; p. 472.
- Collapsible can. A. C. Guhl. No. 1,375,384; Apr. 19; v. 285; p. 490.
- Collapsible chair. G. Floreskul. No. 1,373,959; Apr. 5; v. 285; p. 113.
- Collapsible chair. W. Szostek. No. 1,390,842; Sept. 13; v. 290; p. 349.
- Collapsible seat. W. A. King. No. 1,373,979; Mar. 29; v. 284; p. 845.
- Collapsible seat. M. Unger, J. W. Zarro, and B. S. Veazie. No. 1,367,573; Feb. 8; v. 283; p. 195.
- Collapsible shield. W. A. Fraser. No. 1,385,371; July 26; v. 288; p. 643.
- Collapsible trap. J. F. Masek. No. 1,383,992; July 5; v. 288; p. 152.
- Collapsible tube. W. C. Huntton. No. 1,376,375; Apr. 26; v. 285; p. 711.
- Collapsible tube. C. Weber. No. 1,368,589; Feb. 15; v. 283; p. 439.
- Collapsible tubes, Retainer for the closure-caps of. D. Marinsky. No. 1,389,956; Sept. 6; v. 290; p. 80.
- Collar. J. B. Bolton. No. 1,383,693; July 5; v. 288; p. 90.
- Collar. J. B. Bolton. No. 1,383,694; July 5; v. 288; p. 91.
- Collar, &c. S. L. Cluett. No. 1,397,921; Nov. 22.
- Collar. R. E. Gray. No. 1,396,833; Nov. 15.
- Collar. J. W. Hess and F. S. Hodgins. No. 1,396,204; Nov. 8.
- Collar. J. M. van Heusen. No. 1,397,261; Nov. 15.
- Collar. J. L. Murphy. No. 1,388,660; Aug. 23; v. 289; p. 715.
- Collar. J. L. Murphy. No. 1,388,661; Aug. 23; v. 289; p. 715.
- Collar. A. G. Salerno. No. 1,375,182; Apr. 19; v. 285; p. 452.
- Collar. A. L. Soresi. No. 1,378,142; May 17; v. 286; p. 447.
- Collar. Adjustable open-top horse-. C. Ross. No. 1,397,743; Nov. 22.
- Collar and necktie holder. F. B. Byers. No. 1,392,298; Oct. 4.
- Collar and pulley, Split. T. Crossley. No. 1,382,481; June 21; v. 287; p. 531.
- Collar-attaching machine. A. Diamond. No. 1,368,615; Feb. 15; v. 283; p. 444.
- Collar attachment. J. H. Mullaly. No. 1,377,499; May 10; v. 286; p. 271.
- Collar-band. J. J. Dunn. No. 1,367,737; Feb. 8; v. 283; p. 227.
- Collar-band. C. F. Schwarz and C. L. Shader. No. 1,383,343; July 5; v. 288; p. 17.
- Collar-box. M. Gross. No. 1,372,809; Mar. 29; v. 284; p. 792.
- Collar-button and tie-slip, Combined. O. M. Blood. No. 1,374,351; Apr. 12; v. 285; p. 229.
- Collar-clasp. F. Kohn. No. 1,373,619; Apr. 5; v. 285; p. 46.
- Collar clasp, Soft-. H. Kapotkin. No. 1,399,389; Dec. 6.
- Collar, cuff, and neckband press. C. L. Braley and C. E. Waream. No. 1,392,296; Oct. 4.
- Collar-fastener. J. Dean. No. 1,393,760; Oct. 18.
- Collar-fastener. S. L. Gedney. No. 1,374,007; Apr. 5; v. 285; p. 123.
- Collar fastener and supporter. G. J. Hudson. No. 1,384,956; July 19; v. 288; p. 482.
- Collar fastener or clasp. O. N. Kelly. No. 1,382,512; June 21; v. 287; p. 526.
- Collar fastener or clasp. O. N. Kelly. No. 1,382,513; June 21; v. 287; p. 536.
- Collar fastener or clasp. O. N. Kelly. No. 1,382,514; June 21; v. 287; p. 527.
- Collar fastener or clasp. O. N. Kelly. No. 1,382,515; June 21; v. 287; p. 527.
- Collar fastener, Soft-. D. W. MacMillan. No. 1,368,275; Feb. 15; v. 283; p. 377.
- Collar fastener, Soft-. M. W. Reese. No. 1,371,811; Mar. 15; v. 284; p. 502.
- Collar fastener, Soft-. L. Reiter. No. 1,386,424; Aug. 2; v. 289; p. 91.
- Collar-holder. C. H. Allen. No. 1,387,878; Aug. 16; v. 289; p. 505.
- Collar-holder. C. J. Callahan. No. 1,377,804; May 10; v. 286; p. 329.
- Collar-holder. A. D. Crosby. No. 1,370,883; Mar. 8; v. 284; p. 259.
- Collar-holder. W. L. Ewing. No. 1,365,026; Jan. 11; v. 282; p. 234.
- Collar-holder. H. E. Halseth. No. 1,384,832; July 19; v. 288; p. 457.
- Collar-holder. F. J. Le Clair. No. 1,387,497; Aug. 16; v. 289; p. 428.
- Collar-holder. W. J. McClellan. No. 1,389,675; Sept. 6; v. 290; p. 23.
- Collar-holder. C. Silverman. No. 1,370,563; Mar. 8; v. 284; p. 198.
- Collar-holder. C. Silverman. No. 1,382,023; June 21; v. 287; p. 434.
- Collar-holder. C. Silverman. No. 1,389,604; Sept. 6; v. 290; p. 9.
- Collar-holder. F. W. Young. No. 1,367,448; Feb. 1; v. 283; p. 112.
- Collar holder, Soft-. E. L. Anderson. No. 1,372,329; Mar. 22; v. 284; p. 658.
- Collar holder, Soft-. W. Berceky and G. Munteanu. No. 1,374,485; Apr. 12; v. 285; p. 255.
- Collar holder, Soft-. A. L. Bottomley. No. 1,374,276; Apr. 12; v. 285; p. 214.
- Collar holder, Soft-. E. N. Fontneau. No. 1,376,372; Apr. 26; v. 285; p. 711.
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- Collar-pin. S. L. Gedney. No. 1,374,006; Apr. 5; v. 285; p. 122.
- Collar-pin. R. W. Johnson. No. 1,372,754; Mar. 29; v. 284; p. 781.
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- Collar-protector. B. Simpson. No. 1,369,562; Feb. 22; v. 283; p. 667.
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- Collar-shaping mechanism. C. L. Braley. No. 1,380,331; May 31; v. 286; p. 1008.
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- Collar, Soft fold-. S. T. Wright. No. 1,400,339; Dec. 13.
- Collar, Soft turned-down. D. B. Becker. No. 1,364,608; Jan. 4; v. 282; p. 108.
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- Collar-turning machine. W. A. Barnett. (Reissue.) No. 15,046; Feb. 22; v. 283; p. 707.
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- Collars, Holder for soft. N. D. Frisbie. No. 1,382,970; June 28; v. 287; p. 668.
- Collars, Neckband-fastening means for. A. J. Choquet. No. 1,379,527; May 24; v. 286; p. 782.
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- Collars, Retainer for ladies' cape-. M. de los S. Enriquez. No. 1,395,564; Nov. 1.
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- Collecting contrivance, Portable collapsible. E. R. Case. No. 1,368,697; Feb. 15; v. 283; p. 460.
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- Colors and apparatus for same, Compounding. A. Howland. No. 1,400,552; Dec. 20.
- Coloring-machine. R. Sykora. No. 1,401,504; Dec. 27.
- Colorimeter. R. E. Klett. No. 1,375,708; Apr. 26; v. 285; p. 585.
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- Combustion apparatus, Inclosed. J. Good. No. 1,379,179; May 24; v. 286; p. 716.
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- Commutators. I. T. Leager. No. 1,371,697; Mar. 15; v. 284; p. 481.



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- Commutators, Brush arrangement for disk-shaped. H. Sundhausen. No. 1,400,779; Dec. 20.
- Commutators, Building. V. G. Apple. No. 1,393,878; Oct. 18.
- Commutators, Means for assembling. A. Grob, C. B. Keck, and F. J. Baird. No. 1,400,157; Dec. 13.
- Commutators, Tool for slotting. J. Gardner and C. Y. Knight. No. 1,366,784; Jan. 25; v. 282; p. 660.
- Compartment-box. W. A. Case. No. 1,385,484; July 26; v. 288; p. 667.
- Compass. R. E. Bibbins. No. 1,385,423; July 26; v. 288; p. 653.
- Compass. O. P. Noisom. No. 1,388,292; Aug. 23; v. 289; p. 643.
- Compass, Gyroscopic. G. A. Rossiter. No. 1,367,834; Feb. 8; v. 283; p. 246.
- Compass, Gyroscopic. G. A. Rossiter. No. 1,378,620; May 17; v. 286; p. 557.
- Compass, Gyroscopic. G. A. Rossiter. No. 1,386,029; Aug. 2; v. 289; p. 14.
- Compass, Gyroscopic. G. A. Rossiter. No. 1,386,030; Aug. 2; v. 289; p. 14.
- Compass, Magnetic. C. W. Eisenmann. No. 1,380,949; June 7; v. 287; p. 120.
- Compass, Surveyor's. C. E. Phoenix. No. 1,399,994; Dec. 13.
- Compasses. P. Gepack. No. 1,396,417; Nov. 8.
- Compasses. R. Gonzalez. No. 1,392,825; Oct. 4.
- Compasses, Azimuth-fitting for mariners'. E. A. Suter. No. 1,401,205; Dec. 27.
- Compasses, Damping device for. E. G. Bergmann. No. 1,384,885; July 19; v. 288; p. 467.
- Compasses, Drawing. J. Horwood. No. 1,391,187; Sept. 20; v. 290; p. 482.
- Compasses, Electrical distribution system for gyroscopic. H. L. Tanner. No. 1,378,296; May 17; v. 286; p. 475.
- Compensating gage. C. H. Berry. No. 1,376,505; May 3; v. 286; p. 24.
- Compensation method and apparatus. E. A. Keeler. No. 1,379,266; May 24; v. 286; p. 732.
- Composite bars, Manufacture of. J. R. Flannery and E. I. Dodds. No. 1,364,095; Jan. 4; v. 282; p. 9.
- Composite gear-wheel. H. Keller. No. 1,383,816; July 5; v. 288; p. 116.
- Composite-joint construction. R. S. Blair. No. 1,394,137; Oct. 18.
- Composite material. F. Winterrath. No. 1,369,151; Feb. 22; v. 283; p. 587.
- Composite plate. E. E. Novotny. No. 1,377,508; May 10; v. 286; p. 272.
- Composite sheet. E. E. Novotny. No. 1,377,502; May 10; v. 286; p. 272.
- Composing-stick. C. B. Wright. No. 1,381,888; June 14; v. 287; p. 349.
- Composition. A. J. Bawtskin. No. 1,396,495; Nov. 8.
- Composition. E. M. Watt. No. 1,387,569; Aug. 16; v. 289; p. 442.
- Composition and articles made therefrom. Glass. E. C. Sullivan and W. C. Taylor. No. 1,369,988; Mar. 1; v. 284; p. 45.
- Composition, Antidimming. H. A. Kuhn. Nos. 1,394,773-4; Oct. 25.
- Composition board. A. Ratcliff. No. 1,387,011; Aug. 9; v. 289; p. 280.
- Composition, Colored-smoke-producing. E. C. Weisgerber. No. 1,377,533; May 10; v. 286; p. 276.
- Composition for detonators. R. M. Cook and B. Grotta. No. 1,385,245; July 19; v. 288; p. 542.
- Composition material. E. E. Novotny. No. 1,370,666; Mar. 8; v. 284; p. 218.
- Composition of matter. C. J. Babb. No. 1,370,263; Mar. 1; v. 284; p. 97.
- Composition of matter. S. Breitholtz. No. 1,388,019; Aug. 16; v. 289; p. 531.
- Composition of matter. A. T. Lane. No. 1,377,780; May 10; v. 286; p. 325.
- Composition of matter. W. G. Morse. No. 1,392,074; Sept. 27; v. 290; p. 735.
- Composition of matter. O. F. Reinhold. No. 1,374,233; Apr. 12; v. 285; p. 206.
- Composition of matter. J. H. Smith, Jr., and C. A. Wilson. No. 1,398,979; Dec. 6.
- Composition of matter. M. Weinberg. No. 1,400,395; Dec. 13.
- Composition of matter and making same. H. W. Denny. No. 1,388,174; Aug. 23; v. 289; p. 618.
- Composition of matter and producing the same. P. Calovi. No. 1,386,922; Aug. 9; v. 283; p. 263.
- Compound and producing same. V. Lenher. No. 1,385,081; July 19; v. 288; p. 509.
- Compound engine. P. van Vleck and H. Cooper. No. 1,385,028; July 19; v. 288; p. 498.
- Compound or composition, Polishing, cleaning, or finishing. H. S. Blackmore. No. 1,369,878; Mar. 1; v. 284; p. 24.
- Compounds and mixtures, Apparatus for determining proportions in. J. R. Murlin and W. P. Garrety. No. 1,386,420; Aug. 2; v. 289; p. 90.
- Compressed material, Device for loosening. J. S. Dederich. No. 1,398,129; Nov. 22.
- Compresses, Moistening and wringing. C. C. Humphries. No. 1,397,423; Nov. 15.
- Compressing and packing commodities, Machine for. H. L. Murray and A. Guy. No. 1,380,674; June 7; v. 287; p. 66.
- Compressing apparatus. T. Lund. No. 1,381,207; June 14; v. 287; p. 221.
- Compressing lock-nuts and the like, Machine for. A. B. Chadwick. No. 1,391,170; Sept. 20; v. 290; p. 478.
- Compressing-machine. E. Erickson. No. 1,384,185; July 12; v. 288; p. 241.
- Compressing mechanism. G. N. Rager. No. 1,394,580; Oct. 25.
- Compression and condensation, Apparatus for. R. Suczek. No. 1,371,821; Mar. 15; v. 284; p. 504.
- Compressor. H. O. Carpenter. No. 1,393,085; Oct. 11.
- Compressor. J. O. Carrey. No. 1,364,246; Jan. 4; v. 282; p. 38.
- Compressor. G. J. Daloz. No. 1,394,811; Oct. 25.
- Compressor. E. R. De Luiz. No. 1,364,082; Jan. 4; v. 282; p. 6.
- Compressor. J. G. De Remer. No. 1,373,175; Mar. 29; v. 284; p. 865.
- Compressor. F. J. Heideman. No. 1,401,102; Dec. 20.
- Compressor. F. D. Holdsworth. No. 1,401,603; Dec. 27.
- Compressor. G. F. Krieger. No. 1,365,506; Jan. 11; v. 282; p. 325.
- Compressor. C. L. McCuen. No. 1,400,755; Dec. 20.
- Compressor. A. Roszkowski. No. 1,383,860; July 5; v. 288; p. 125.
- Compressor. P. Van Vleck and H. Cooper. No. 1,373,924; Apr. 5; v. 285; p. 106.
- Compressor. F. J. Zoppel. No. 1,370,577; Mar. 8; v. 284; p. 201.
- Compressor, Air-. E. W. Yearsley. No. 1,370,254; Mar. 1; v. 284; p. 95.
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- Compressor and the like, Centrifugal. L. C. Loewenstein. No. 1,373,896; Apr. 5; v. 285; p. 101.
- Compressor-controlling mechanism. A. D. Ferguson. No. 1,394,819; Oct. 25.
- Compressor-controlling mechanism. F. D. Holdsworth. No. 1,377,981; May 10; v. 286; p. 363.
- Compressor-controlling mechanism. F. D. Holdsworth. No. 1,401,908; Dec. 27.
- Compressor-controlling mechanism. J. Oliphant. No. 1,375,656; Apr. 19; v. 285; p. 542.
- Compressor-controlling mechanism. W. H. Wineman. Nos. 1,398,912-3; Nov. 29.
- Compressor, Motor-. N. A. Christensen. No. 1,369,618; Feb. 22; v. 283; p. 678.
- Compressor, Motor-driven. H. W. Cheney. No. 1,374,906; Apr. 19; v. 285; p. 399.
- Compressor-overload regulator. T. J. Hart. No. 1,378,028; May 17; v. 286; p. 424.
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- Compressor-regulators, Automatic relief means for. C. Wainwright. No. 1,366,853; Jan. 25; v. 282; p. 673.
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- Compressor, Rotary. G. B. Petsche. No. 1,390,586; Sept. 13; v. 290; p. 298.
- Compressor system. K. A. Simmon. No. 1,376,467; May 3; v. 286; p. 17.
- Compressor-unloader. A. O. Carpenter. No. 1,395,090; Oct. 25.
- Compressor-unloading mechanism. H. B. Halvorsen. No. 1,401,944; Dec. 27.
- Compressor, Valve-spring. H. R. Randleman. No. 1,371,643; Mar. 15; v. 284; p. 470.
- Compressor, Wet centrifugal. J. W. A. Elling. No. 1,385,318; July 19; v. 288; p. 556.
- Compressors, Air-delivery cooler for turbo-. E. H. Sherbondy. No. 1,369,558; Feb. 22; v. 283; p. 666.
- Compressors and pumps, Cooling means for. A. O. Carpenter. No. 1,368,238; Feb. 15; v. 283; p. 370.
- Compressors, Compressing vapor in multistage centrifugal. B. Graemiger. No. 1,400,813; Dec. 20.
- Compressors, Control for air-delivery coolers for turbo-. E. H. Sherbondy. No. 1,371,444; Mar. 15; v. 284; p. 431.
- Compressors, Control system for. B. S. Aikman. No. 1,400,133; Dec. 13.
- Compressors, Lubricating device for air-. C. Neidhammer. No. 1,368,190; Feb. 8; v. 283; p. 313.
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- Compressors, Method and apparatus for regulating centrifugal. E. Brown and A. Carrard. No. 1,401,668; Dec. 27.
- Compressors, Regulation of rotary. W. Grun. No. 1,372,502; Mar. 22; v. 284; p. 651.
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- Compressors, Unloading device for air-. C. H. Reeder. No. 1,365,272; Jan. 11; v. 282; p. 280.



- Computing and paper-roll machine, Combination. C. F. Christopher. No. 1,381,541; June 14; v. 287; p. 283.
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- Computing-machine. A. T. Brown. No. 1,372,334; Mar. 22; v. 284; p. 659.
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- Computing-machine. B. M. Des Jardins. No. 1,369,791; Mar. 1; v. 284; p. 7.
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- Computing-machine. J. Duckstine. No. 1,376,518; May 3; v. 286; p. 26.
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- Concentrating-pan. E. H. Fromm. No. 1,381,411; June 14; v. 287; p. 259.
- Concentrating-table. J. F. McNeill. No. 1,368,815; Feb. 15; v. 283; p. 483.
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- Concrete and like structure. A. J. Dunn. No. 1,375,903; Apr. 26; v. 285; p. 621.
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- Concrete and stucco, Producing a predetermined color effect in. J. J. Earley. No. 1,376,748; May 3; v. 286; p. 69.
- Concrete-block-forming machine. N. F. Atwood. No. 1,368,231; Feb. 15; v. 283; p. 369.
- Concrete-block mold. M. J. Killits. No. 1,391,638; Sept. 20; v. 290; p. 573.
- Concrete-block-molding machine. A. L. and H. R. Post. No. 1,396,779; Nov. 15.
- Concrete blocks and the like, Press for molding. F. W. Kiddle. No. 1,371,174; Mar. 8; v. 284; p. 314.
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- Concrete blocks, Machine for making. T. E. Hoenemann. No. 1,398,898; Nov. 29.
- Concrete blocks, Mold for. F. A. Roosa. No. 1,391,508; Sept. 20; v. 290; p. 547.
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- Concrete pole, Reinforced. E. Marzoli. No. 1,372,362; Mar. 22; v. 284; p. 664.
- Concrete poles and piles, Rolled metal reinforcement for. A. L. Roberts. No. 1,385,643; July 26; v. 288; p. 699.
- Concrete poles, Machine for making. J. J. Gruenfeld, Jr. No. 1,374,730; Apr. 12; v. 285; p. 302.
- Concrete products, Molding of. W. R. Hume. No. 1,390,134; Sept. 6; v. 290; p. 116.
- Concrete railway-tie. H. Kapolkin. No. 1,384,070; July 12; v. 288; p. 217.
- Concrete railway-tie. W. J. Lankford and W. H. Chappel. No. 1,384,326; July 12; v. 288; p. 270.
- Concrete railway-tie. G. Miserocchi. No. 1,383,327; July 5; v. 288; p. 14.
- Concrete, Reinforced. E. Freyssinet. No. 1,389,942; Sept. 6; v. 290; p. 78.
- Concrete, Reinforcing-bar for. C. C. Conkling. No. 1,364,182; Jan. 4; v. 282; p. 26.
- Concrete-reinforcing metal unit for the walls, floors, and ceilings of buildings and for other concrete construction work. O. Allen. No. 1,390,073; Sept. 6; v. 290; p. 104.
- Concrete-reinforcement. M. J. Wall. No. 1,380,613; June 7; v. 287; p. 55.
- Concrete-roadway-reinforcing fabric. E. L. Benedict. No. 1,388,544; Aug. 23; v. 289; p. 693.
- Concrete salvage jack-head. C. M. Markham. No. 1,374,598; Apr. 12; v. 285; p. 277.
- Concrete sash-weight. E. A. Stephens. No. 1,386,538; Aug. 2; v. 289; p. 112.
- Concrete ships, Apparatus for and process of constructing and launching. W. H. Mason. No. 1,383,653; July 5; v. 288; p. 82.
- Concrete, Spacing device for reinforcing-bars in. F. H. Schroeder, Jr. No. 1,365,125; Jan. 11; v. 282; p. 252.
- Concrete structure and making the same. W. F. Marx. No. 1,386,417; Aug. 2; v. 289; p. 89.
- Concrete structure having waterproofing reinforcement. J. W. Welch. No. 1,393,592; Oct. 11.
- Concrete structure, Reinforced. S. Charles. No. 1,382,060; June 21; v. 287; p. 441.
- Concrete structures, Adjustable form for. S. Rashkovsky. No. 1,374,864; Apr. 12; v. 285; p. 328.
- Concrete structures, Apparatus for building. G. H. Forrester, G. and J. D. Marsh. No. 1,367,313; Feb. 1; v. 283; p. 85.
- Concrete structures, Constructing reinforced. E. Van Bavegem. No. 1,398,209; Nov. 22.
- Concrete structures, Erecting. S. Lake. No. 1,394,997; Oct. 25.
- Concrete structures, Means for building. I. Abram. No. 1,376,911; May 3; v. 286; p. 101.
- Concrete structures, Metal-reinforcing frame for. W. E. Ficklen. No. 1,392,315; Oct. 4.
- Concrete structures, Reinforcement for. A. C. Briggs. No. 1,367,294; Feb. 1; v. 283; p. 82.
- Concrete surfaces, Composition for treating. A. R. Green and H. L. Roscoe. No. 1,371,555; Mar. 15; v. 284; p. 454.
- Concrete tie. A. C. Rapelje. No. 1,376,580; May 3; v. 286; p. 38.
- Concrete tie. T. D. Wright. No. 1,381,048; June 7; v. 287; p. 139.
- Concrete tie and rail-fastening. M. A. Bonk. No. 1,399,926; Dec. 13.
- Concrete-tie-making machine. J. Nelson. No. 1,400,969; Dec. 20.
- Concrete tie, Reinforced. D. R. Sullivan. No. 1,384,496; July 12; v. 288; p. 306.
- Concrete ties, Rail-fastening for. E. Rogers. No. 1,388,972; Aug. 30; v. 289; p. 832.
- Concrete-wall form. A. H. Denniston. No. 1,399,751; Dec. 13.
- Concrete-wall mold. R. C. Keogan. No. 1,400,682; Dec. 20.
- Concrete wall-mold. C. F. Strausbaugh. No. 1,367,438; Feb. 1; v. 283; p. 110.
- Concrete-wall mold. C. S. Porter. No. 1,398,915; Nov. 29.
- Concrete walls, Form for. E. Troolin. No. 1,390,066; Sept. 6; v. 290; p. 103.
- Concrete walls, Form for hollow. B. Farness. No. 1,401,898; Dec. 27.
- Concrete work, Apparatus for hardening flat. L. R. Smith. No. 1,388,128; Aug. 16; v. 289; p. 553.
- Condensation-preventing device. J. W. Murphy. No. 1,378,604; May 17; v. 286; p. 534.
- Condensation products, Producing. B. B. Goldsmith. No. 1,375,959; Apr. 26; v. 285; p. 637.
- Condenser, Jet-. P. A. Bancel. No. 1,379,955; May 31; v. 286; p. 937.
- Condenser. J. A. Bishop. No. 1,395,898; Nov. 1.
- Condenser. J. C. Corbin. No. 1,397,621; Nov. 22.
- Condenser. R. N. Ehrhart. No. 1,364,921; Jan. 11; v. 282; p. 212.
- Condenser. R. N. Ehrhart. No. 1,372,409; Mar. 22; v. 284; p. 673.
- Condenser. G. Engel, Sr. No. 1,399,294; Dec. 6.
- Condenser. R. F. Goecke. No. 1,399,611; Dec. 6.
- Condenser. N. H. Hiller. No. 1,385,827; July 26; v. 288; p. 736.
- Condenser. E. E. Horstmann. No. 1,367,743; Feb. 8; v. 283; p. 228.
- Condenser. W. H. Phillips. No. 1,397,545; Nov. 22.
- Condenser. H. E. L. Scaues. No. 1,382,676; June 28; v. 287; p. 612.
- Condenser. J. Schneible. No. 1,366,957; Feb. 1; v. 283; p. 15.
- Condenser. P. Thomas. No. 1,396,897; Nov. 15.
- Condenser. R. E. Thompson. No. 1,374,781; Apr. 12; v. 285; p. 312.
- Condenser. E. Thomson. No. 1,375,982; Apr. 26; v. 285; p. 636.
- Condenser. C. D. Tuska. No. 1,371,061; Mar. 8; v. 284; p. 293.
- Condenser. F. J. Zoppel. No. 1,391,989; Sept. 27; v. 290; p. 718.
- Condenser and cooler, Auxiliary. W. H. Hoff. No. 1,369,526; Feb. 22; v. 283; p. 659.
- Condenser and making same. A. Pruessman. (Reissue.) No. 15,241; Nov. 29.
- Condenser apparatus. S. A. Moss. No. 1,394,929; Oct. 25.
- Condenser installation. H. F. Schmidt. No. 1,367,208; Feb. 1; v. 283; p. 65.
- Condenser, Outboard-. D. Westfall. No. 1,380,618; June 1; v. 287; p. 55.
- Condenser, Steam-. H. O. Baker and W. P. Cook. No. 1,384,737; July 19; v. 288; p. 437.
- Condenser, Steam surface. J. F. H. Audouin. No. 1,372,926; Mar. 29; v. 284; p. 816.
- Condenser, Surface. R. N. Ehrhart. No. 1,372,410; Mar. 22; v. 284; p. 673.
- Condenser, Surface. W. Koedding. No. 1,394,627; Oct. 25.
- Condenser, Terminal for electrolytic. J. Slepian. No. 1,381,356; June 14; v. 287; p. 248.
- Condenser, Variable. W. Dubilier. No. 1,396,030; Nov. 8.
- Condensers, Air-pump for. F. Ljungström. No. 1,394,748; Oct. 25.
- Condensers and boilers, Disincrustant for cleaning. J. Urruty. No. 1,371,584; Mar. 15; v. 284; p. 459.
- Condensing apparatus. E. W. Christie. No. 1,393,499; Oct. 11.
- Condensers, Apparatus for making. P. Thomas. No. 1,384,498; July 12; v. 288; p. 306.
- Condensers, Making. P. Thomas. No. 1,365,292; Jan. 11; v. 282; p. 284.
- Condensers, Terminal for electrolytic. C. L. Fortescue. No. 1,382,899; June 28; v. 287; p. 654.
- Condensing apparatus. J. Y. Pisceck. No. 1,394,502; Oct. 18.
- Condensing apparatus. R. Suczek. No. 1,373,463; Apr. 5; v. 285; p. 16.
- Condiment-holder. D. Freedline. No. 1,389,443; Aug. 30; v. 289; p. 926.
- Condiment-holder. S. Peters. No. 1,375,929; Apr. 26; v. 285; p. 626.
- Condiment-holder. A. O. Roberts. No. 1,395,597; Nov. 1.
- Conductor and electric machinery provided with it. R. Rüdenburg. No. 1,370,156; Mar. 1; v. 284; p. 76.
- Conductor-clamp. S. S. Matthes. No. 1,399,140; Dec. 6.
- Conductor clamp and support. S. S. Matthes. No. 1,373,751; Apr. 5; v. 285; p. 71.
- Conductor-support. G. E. Henry. No. 1,367,599; Feb. 8; v. 283; p. 200.



- Conductors, Producing electrical. R. L. Seabury. No. 1,379,366; May 24; v. 286; p. 752.
- Conduit. R. P. Perry. No. 1,382,740; June 28; v. 287; p. 624.
- Conduit-bender, Combined hand and stationary. R. H. Henderson. No. 1,379,016; May 24; v. 286; p. 686.
- Conduit-body angle-adapter. H. G. Knoderer. No. 1,386,877; Aug. 9; v. 289; p. 253.
- Conduit-conveyor. J. B. Brown. No. 1,400,658; Dec. 20.
- Conduit-end protector. F. I. Johnson. No. 1,381,073; June 7; v. 287; p. 144.
- Conduit, Flexible. W. M. Dickinson. No. 1,365,306; Jan. 11; v. 282; p. 287.
- Conduit, Lubricant. C. H. Newton. No. 1,383,746; July 5; v. 288; p. 102.
- Conduit, Making a molded. T. E. Murray. No. 1,387,067; Aug. 9; v. 289; p. 292.
- Conduit, Means for withdrawing a lining of flexible material from the bore of a. T. E. Murray. No. 1,387,066; Aug. 9; v. 289; p. 292.
- Conduit, Non-metallic flexible. H. Hansen. No. 1,376,618; May 3; v. 286; p. 45.
- Conduit or cable clamp. G. W. Lieb. No. 1,365,629; Jan. 11; v. 282; p. 349.
- Conduit or cable clamp and bridle-ring. W. J. Hiss. No. 1,365,613; Jan. 11; v. 282; p. 346.
- Conduit or cable clamp and bridle-ring. W. J. Hiss. No. 1,365,614; Jan. 11; v. 282; p. 346.
- Conduit or cable clamp and bridle-ring. W. J. Hiss. No. 1,365,615; Jan. 11; v. 282; p. 347.
- Conduit or cable clamp and bridle-ring. W. J. Hiss. No. 1,381,192; June 14; v. 287; p. 218.
- Conduit or cable clamp and bridle-ring. W. J. Hiss. No. 1,387,489; Aug. 16; v. 289; p. 426.
- Conduit or cable clamp and bridle-ring. J. Karitzky. No. 1,365,616; Jan. 11; v. 282; p. 347.
- Conduit or cable clamp and bridle-ring. J. Karitzky. No. 1,365,617; Jan. 11; v. 282; p. 348.
- Conduit or cable clamp and bridle-ring. J. Karitzky. No. 1,365,620; Jan. 11; v. 282; p. 348.
- Conduit or cable clamp and bridle-ring. J. Karitzky. No. 1,365,625; Jan. 11; v. 282; p. 348.
- Conduit or cable clamp and bridle-ring. J. Karitzky. No. 1,365,628; Jan. 11; v. 282; p. 349.
- Conduit or cable clamp and bridle-ring. J. Karitzky. No. 1,365,630; Jan. 11; v. 282; p. 349.
- Conduit or cable clamp and bridle-ring. J. Karitzky. No. 1,381,198; June 14; v. 287; p. 219.
- Conduit or cable clamp and bridle-ring. J. Karitzky. No. 1,381,199; June 14; v. 287; p. 220.
- Conduit or cable clamp and bridle-ring. J. Karitzky. No. 1,381,200; June 14; v. 287; p. 220.
- Conduit or cable clamp and bridle-ring. H. B. Newhall. No. 1,365,624; Jan. 11; v. 282; p. 348.
- Conduit or cable clamp and bridle-ring. H. B. Newhall and H. W. Pleister. No. 1,365,623; Jan. 11; v. 282; p. 348.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,365,618; Jan. 11; v. 282; p. 347.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,365,621; Jan. 11; v. 282; p. 348.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,365,622; Jan. 11; v. 282; p. 348.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,365,627; Jan. 11; v. 282; p. 349.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,365,631; Jan. 11; v. 282; p. 349.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,365,632; Jan. 11; v. 282; p. 350.
- Conduit or cable clamp and bridle-ring. H. B. Newhall. No. 1,381,219; June 14; v. 287; p. 224.
- Conduit or cable clamp and bridle-ring. H. B. Newhall. No. 1,381,220; June 14; v. 287; p. 224.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,381,228; June 14; v. 287; p. 225.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,381,229; June 14; v. 287; p. 225.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,381,230; June 14; v. 287; p. 226.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,381,231; June 14; v. 287; p. 226.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,381,232; June 14; v. 287; p. 226.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,381,233; June 14; v. 287; p. 226.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,381,234; June 14; v. 287; p. 226.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,381,235; June 14; v. 287; p. 226.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,381,236; June 14; v. 287; p. 226.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,381,237; June 14; v. 287; p. 227.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,381,238; June 14; v. 287; p. 227.
- Conduit or cable clamp and bridle-ring. H. W. Pleister. No. 1,381,239; June 14; v. 287; p. 227.
- Conduit or cable clamp and bridle-ring. H. W. Pleister and J. Karitzky. No. 1,365,619; Jan. 11; v. 282; p. 347.
- Conduit or cable clamp and bridle-ring. D. R. Sherwood. No. 1,365,065; Jan. 11; v. 282; p. 240.
- Conduit outlet-boxes, Cap for. C. H. Bissell. No. 1,391,524; Sept. 20; v. 290; p. 551.
- Conduit-pipe coupling. F. W. Erickson. No. 1,378,015; May 17; v. 286; p. 422.
- Conduit, Sectional. D. D. Tracy. No. 1,396,301; Nov. 8.
- Conduit, Water-tight pipe. J. W. Latimer. No. 1,371,632; Mar. 15; v. 284; p. 468.
- Conduits for drainage and similar purposes, Construction of. W. H. Stevens. No. 1,386,808; Aug. 9; v. 289; p. 239.
- Conduits, Form for concrete. A. J. James. No. 1,364,436; Jan. 4; v. 282; p. 76.
- Conduits, Making reinforced molded. T. E. Murray. No. 1,387,065; Aug. 9; v. 289; p. 291.
- Conduits, &c., Producing. T. E. Murray. No. 1,399,308; Dec. 6.
- Cone-baking machine. W. E. Moore. No. 1,389,774; Sept. 6; v. 290; p. 43.
- Cone-making machine, Automatic. W. M. and P. D. Roberts. No. 1,392,284; Sept. 27; v. 290; p. 777.
- Cone-molding machine. L. Lucas. No. 1,367,196; Feb. 1; v. 283; p. 62.
- Cone-pulley head-stock. G. D. Sundstrand. No. 1,387,519; Aug. 16; v. 289; p. 432.
- Confection. J. A. Cressey. No. 1,382,601; June 21; v. 287; p. 543.
- Confection apparatus. T. A. Ebaugh. No. 1,397,757; Nov. 22.
- Confection cone-carrier. J. J. Botnen. No. 1,367,174; Feb. 1; v. 283; p. 58.
- Confections and the like, Conveying and cooling apparatus for. F. W. Leyland and E. P. Brock. No. 1,364,121; Jan. 4; v. 282; p. 15.
- Confections, Producing. J. A. Cressey. No. 1,383,290; July 5; v. 288; p. 7.
- Confectionery-making machine. W. V. Wallburg. No. 1,383,681; July 5; v. 288; p. 88.
- Conical straining device. G. W. Ferdon. No. 1,395,951; Nov. 1.
- Connecting device. E. H. Budrow. No. 1,390,980; Sept. 20; v. 290; p. 410.
- Connecting device. M. W. Doyle. No. 1,394,673; Oct. 25.
- Connecting device. G. C. Thomas, Jr. No. 1,367,998; Feb. 8; v. 283; p. 275.
- Connecting device, Detachable. T. J. Kehoe. No. 1,376,442; May 3; v. 286; p. 13.
- Connecting devices, Adapter for. G. C. Thomas, Jr. No. 1,364,529; Jan. 4; v. 282; p. 94.
- Connecting-rod. R. H. Jackson. No. 1,396,435; Nov. 8.
- Connecting-rod. H. B. Layman. No. 1,373,083; Mar. 29; v. 284; p. 846.
- Connecting-rod. H. B. Layman. No. 1,380,658; June 7; v. 287; p. 63.
- Connecting-rod. H. B. Layman. No. 1,387,277; Aug. 9; v. 289; p. 331.
- Connecting-rod. R. A. Norling. No. 1,391,847; Sept. 27; v. 290; p. 689.
- Connecting-rod. E. R. Schnelle. No. 1,385,894; July 26; v. 288; p. 750.
- Connecting-rod aliner. S. M. Campbell. No. 1,398,359; Nov. 29.
- Connecting-rod and standardized the same, Standardized. C. H. Hapgood. No. 1,367,478; Feb. 1; v. 283; p. 118.
- Connecting-rod-oiling means. J. W. Nelson and R. S. Coulter. No. 1,392,592; Oct. 4.
- Connecting-rods and similar machine parts, Production of. J. Oakley. No. 1,400,829; Dec. 20.
- Connection, Crosshead and piston-rod. C. J. A. Gottlieb. No. 1,395,814; Nov. 1.
- Connection, System of. H. Sundhausen. No. 1,387,433; Aug. 9; v. 289; p. 364.
- Connector. E. M. Claytor. No. 1,376,401; May 3; v. 286; p. 5.
- Connector. H. A. Douglas. No. 1,391,303; Sept. 20; v. 290; p. 506.
- Connector, G. H. Garcelon. No. 1,379,681; May 31; v. 286; p. 888.
- Connector. P. M. Hengstenberg. No. 1,374,566; Apr. 12; v. 285; p. 271.
- Connector. H. E. Parson. No. 1,399,399; Dec. 6.
- Connector. K. A. Simmon. No. 1,384,491; July 12; v. 288; p. 304.
- Connector, Multiple. J. W. Haywood. No. 1,395,108; Oct. 25.
- Connector-plug. F. L. Simmons. No. 1,374,529; Apr. 12; v. 285; p. 264.
- Connector, Test. J. M. Peirce. No. 1,370,554; Mar. 8; v. 284; p. 197.
- Consecutive operation of two or more mechanisms. J. F. Gill and J. N. Chaviara. No. 1,383,098; June 28; v. 287; p. 692.
- Construction material. R. P. Perry. No. 1,400,312; Dec. 13.
- Construction material and making the same, Coated. R. P. Perry. No. 1,369,187; Feb. 22; v. 283; p. 594.
- Construction material and producing the same. R. P. Perry. No. 1,369,186; Feb. 22; v. 283; p. 593.
- Construction, Removable. C. Fregonara. No. 1,393,996; Oct. 18.
- Contact breaker mounting. M. Feldine. No. 1,365,028; Jan. 11; v. 282; p. 234.
- Contact device. J. A. Wotton. No. 1,400,126; Dec. 13.
- Contact device. (Reissue.) A. A. Kent. No. 15,128; June 21; v. 287; p. 545.



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- Container. A. S. Bronson. No. 1,381,165; June 14; v. 287; p. 213.
- Container. A. E. Bruns. No. 1,364,862; Jan. 11; v. 282; p. 201.
- Container. C. H. Cartledge. No. 1,387,237; Aug. 9; v. 289; p. 323.
- Container. F. B. Davidson. No. 1,372,218; Mar. 22; v. 284; p. 637.
- Container. J. J. Ferrall. No. 1,399,948; Dec. 13.
- Container. J. J. Ferrall, P. J. Sundheim, and C. H. Trelawny. No. 1,399,947; Dec. 13.
- Container. J. L. Hamilton. No. 1,378,674; May 17; v. 286; p. 578.
- Container. C. H. Kors. No. 1,377,695; May 10; v. 286; p. 307.
- Container. A. M. Kruse. No. 1,400,685; Dec. 20.
- Container. J. Levy. No. 1,384,725; July 12; v. 288; p. 354.
- Container. J. Mrazek. No. 1,383,838; July 5; v. 288. p. 121.
- Container. C. H. Nowack. No. 1,393,815; Oct. 18.
- Container. W. H. Richman. No. 1,395,298; Nov. 1.
- Container. J. V. R. Shepherd. No. 1,397,908; Nov. 22.
- Container. W. B. Thomas, Jr. No. 1,387,520; Aug. 16; v. 289; p. 433.
- Container. F. Wallertz. No. 1,393,413; Oct. 11.
- Container. R. Walter. No. 1,393,591; Oct. 11.
- Container. C. Weeks. No. 1,386,917; Aug. 9; v. 289; p. 262.
- Container. F. Westerbeck. No. 1,370,865; Mar. 8; v. 284; p. 256.
- Container. F. Westerbeck. No. 1,381,148; June 14; v. 287; p. 210.
- Container. P. Zalkind. No. 1,389,923; Sept. 6; p. 290; p. 74.
- Container and cap therefor. G. M. S. Tait. No. 1,399,671; Dec. 6.
- Container and fastening means therefor, Folding. L. E. Brady. No. 1,371,219; Mar. 15; v. 284; p. 386.
- Container and liquid-spreader, Combined. R. R. Ritz. No. 1,374,236; Apr. 12; v. 285; p. 207.
- Container-bodies, Machine for reducing the ends of. B. K. Ford. No. 1,384,945; July 19; v. 288; p. 479.
- Container-cap, Irremovable. H. W. Fulenwider. No. 1,399,759; Dec. 13.
- Container, Chemical. R. E. Kirtley. No. 1,371,627; Mar. 15; v. 284; p. 467.
- Container closing and stapling apparatus. E. Shepard. No. 1,378,488; May 17; v. 286; p. 512.
- Container-closure. E. G. Rust. No. 1,377,526; May 10; v. 286; p. 275.
- Container-closure. E. G. Rust. No. 1,381,137; June 14; v. 287; p. 209.
- Containers, Closure for. M. D. Fink. No. 1,371,778; Mar. 15; v. 284; p. 495.
- Container, Collapsible. A. L. Austin. No. 1,380,880; June 7; v. 287; p. 107.
- Container, Collapsible. W. M. Whelldon. No. 1,375,070; Apr. 19; v. 285; p. 431.
- Container-covers, Fastening device for. C. W. Dobelin. No. 1,365,466; Jan. 11; v. 282; p. 318.
- Container, Dished-lid. O. A. Kurt and S. C. Bartholdi. No. 1,366,265; Jan. 18; v. 282; p. 513.
- Container-dispenser. D. F. Curtin. No. 1,367,948; Feb. 8; v. 283; p. 266.
- Container, Dispensing-. M. J. Steele. No. 1,396,469; Nov. 8.
- Container, Electrically-heated. J. T. Griffin and W. A. Timm. No. 1,386,705; Aug. 9; v. 289; p. 218.
- Container-fastener. C. L. Demers. No. 1,366,638; Jan. 25; v. 282; p. 631.
- Container for new and discarded articles. P. R. Gonsky. No. 1,379,098; May 24; v. 286; p. 701.
- Container-holder. B. Butler. No. 1,400,798; Dec. 20.
- Container, Machine for forming tubular. A. C. V. Malm. No. 1,399,636; Dec. 6.
- Container, Mailing-. L. D. Conrad. No. 1,364,918; Jan. 11; v. 282; p. 212.
- Container, Metal. M. T. Bentley. No. 1,369,001; Feb. 22; v. 283; p. 558.
- Container, Metal-bound fiber. A. L. Weis and W. H. Ray. No. 1,394,592; Oct. 25.
- Container, Open-end. A. L. Weis. No. 1,394,590; Oct. 25.
- Container-opener. F. Dobrick. No. 1,400,425; Dec. 13.
- Container, Pencil-. W. G. Seaton. No. 1,377,097; May 3; v. 286; p. 137.
- Container, Portable refrigerant-. J. W. Lippincott. No. 1,380,987; June 7; v. 287; p. 128.
- Container, Sealed. T. H. French. No. 1,394,545; Oct. 25.
- Container, Self-closing. J. B. Brown. No. 1,377,801; May 10; v. 286; p. 329.
- Container, shipping-case, crate, and box. G. S. Wyman. No. 1,377,382; May 10; v. 286; p. 248.
- Container-spout. F. C. Osborn. No. 1,375,725; Apr. 26; v. 285; p. 588.
- Container-stitching apparatus. E. Shepard. No. 1,367,721; Feb. 8; v. 283; p. 223.
- Container, Storage-battery. J. L. Woodbridge. No. 1,364,469; Jan. 4; v. 282; p. 82.
- Containers, Apparatus and process for filling and closing capillary. W. Goodchild. No. 1,397,631; Nov. 22.
- Containers, Apparatus for automatically impregnating or saturating strawboard, paper, and the like. A. B. Shirlow. No. 1,364,648; Jan. 4; v. 282; p. 116.
- Containers, Attachment for. C. Craft. No. 1,384,120; July 12; v. 288; p. 228.
- Containers, Carrier for pasteboard. H. B. Pettee. No. 1,392,791; Oct. 4.
- Containers, Contents-indicator for. A. W. Malinowsky. No. 1,379,271; May 24; v. 286; p. 734.
- Containers, Electric stopper for fluid-. E. C. Webster. No. 1,400,646; Dec. 20.
- Containers for comestible substances such as butter, Method of and apparatus for rendering timber not otherwise suitable usable for. B. Abbey. No. 1,399,838; Dec. 13.
- Containers, Forming. J. L. Ferguson. No. 1,393,274; Oct. 11.
- Containers, Holder for. J. Bliss. No. 1,365,368; Jan. 11; v. 282; p. 299.
- Containers, Locking device for collapsible. A. L. Ward. No. 1,380,875; June 7; v. 287; p. 106.
- Containers, Machine for filling and packing. J. C. Thom. No. 1,386,810; Aug. 9; v. 289; p. 240.
- Containers, Machine for printing and forming caps for. C. A. Garrett. No. 1,365,679; Jan. 18; v. 282; p. 398.
- Containers, Making. C. F. Preston. No. 1,401,361; Dec. 27.
- Containers, Manufacturing. T. W. Ritchie. No. 1,390,644; Sept. 13; v. 290; p. 311.
- Containers, Non-corrosive attachment for. R. D. Maddox. No. 1,383,138; June 28; v. 287; p. 699.
- Containers of glass, Protective covering or envelop for. H. Macera. No. 1,364,774; Jan. 4; v. 282; p. 140.
- Containers, Seal for. C. Field and W. E. Newell. No. 1,399,949; Dec. 13.
- Containers, Stopper for. C. A. Bunker. No. 1,378,995; May 24; v. 286; p. 682.
- Containers, Support for. J. A. Carey. No. 1,400,025; Dec. 13.
- Containers with springs, Method of and machine for filling. F. C. Genge. No. 1,370,533; Mar. 8; v. 284; p. 192.
- Continuous thickening process. A. L. Genter. No. 1,379,095; May 24; v. 286; p. 700.
- Contouring-machine. C. E. Risser. No. 1,387,182; Aug. 9; v. 289; p. 314.
- Control. W. G. Landon. No. 1,383,825; July 5; v. 288. p. 118.
- Control and regulation, Electroionic system of. F. W. Meyer. No. 1,369,457; Feb. 22; v. 283; p. 646.
- Control apparatus. S. R. Dadds. No. 1,384,452; July 12; v. 288; p. 297.
- Control apparatus. A. J. Hall. No. 1,374,562; Apr. 12; v. 285; p. 270.
- Control apparatus. O. P. Hipple. No. 1,376,436; May 3; v. 286; p. 11.
- Control apparatus. O. P. Hipple. No. 1,392,160; Sept. 27; v. 290; p. 752.
- Control apparatus. H. H. Johnston. No. 1,365,325; Jan. 11; v. 282; p. 291.
- Control apparatus. H. H. Johnston. No. 1,373,077; Mar. 29; v. 284; p. 845.
- Control apparatus. H. H. Johnston. No. 1,381,312; June 14; v. 287; p. 240.
- Control apparatus. M. F. Jones. No. 1,384,469; July 12; v. 288; p. 300.
- Control apparatus. T. C. Mackay. No. 1,365,421; Jan. 11; v. 282; p. 310.
- Control apparatus. F. H. Miller. No. 1,376,454; May 3; v. 286; p. 15.
- Control apparatus. H. F. Porter. No. 1,377,274; May 10; v. 286; p. 227.
- Control apparatus. L. G. Riley. No. 1,401,645; Dec. 27.
- Control apparatus. E. E. Rose and C. A. Smith. No. 1,401,647; Dec. 27.
- Control apparatus. K. A. Simmon. No. 1,384,490; July 12; v. 288; p. 304.
- Control apparatus. K. A. Simmon. No. 1,386,032; Aug. 2; v. 289; p. 14.
- Control apparatus. K. A. Simmon. No. 1,389,105; Aug. 30; v. 289; p. 858.
- Control-column. H. Kleckler. No. 1,373,433; Apr. 5; v. 285; p. 10.
- Control device. H. Ferester. No. 1,394,158; Oct. 18.
- Control device for automatic machines. W. Ferrier. No. 1,385,369; July 26; v. 288. p. 642.
- Control-lever-shifting mechanism, Automatic. W. L. Watson. No. 1,371,655; Mar. 15; v. 284; p. 472.
- Control mechanism. J. F. Johnson. No. 1,399,774; Dec. 13.
- Control mechanism. H. L. Watson. No. 1,401,744; Dec. 27.
- Control of mechanism, Dual. A. P. Brush. No. 1,377,306; May 10; v. 286; p. 233.
- Control of reactions, Automatic. P. H. Bascom. No. 1,399,181; Dec. 6.
- Control, Series-multiple. E. F. W. Alexanderson. No. 1,365,441; Jan. 11; v. 282; p. 313.
- Control system. A. H. Candee and H. H. Johnston. No. 1,381,277; June 14; v. 287; p. 234.
- Control system. A. H. Candee. No. 1,387,466; Aug. 16; v. 289; p. 421.



- Control system. J. A. Clarke, Jr., and S. B. Schenck. No. 1,371,603; Mar. 15; v. 284; p. 462.
- Control system. R. E. De Camp; No. 1,387,595; Aug. 16; v. 289; p. 448.
- Control system. R. E. De Camp. No. 1,392,250; Sept. 27; v. 290; p. 771.
- Control system. R. E. Ferris. No. 1,365,585; Jan. 11; v. 282; p. 341.
- Control system. A. J. Hall. No. 1,365,316; Jan. 11; v. 282; p. 289.
- Control system. A. J. Hall. No. 1,365,317; Jan. 11; v. 282; p. 289.
- Control system. A. J. Hall. No. 1,371,558; Mar. 15; v. 284; p. 454.
- Control system. R. E. Hellmund. No. 1,367,473; Feb. 1; v. 283; p. 117.
- Control system. R. E. Hellmund. No. 1,371,559; Mar. 15; v. 284; p. 454.
- Control system. R. E. Hellmund. No. 1,393,442; Oct. 11.
- Control system. H. D. James. No. 1,365,322; Jan. 11; v. 282; p. 290.
- Control system. H. D. James. No. 1,365,323; Jan. 11; v. 282; p. 290.
- Control system. H. D. James. No. 1,392,056; Sept. 27; v. 290; p. 731.
- Control system. H. D. James. No. 1,392,057; Sept. 27; v. 290; p. 732.
- Control system. H. D. James. No. 1,392,059; Sept. 27; v. 290; p. 732.
- Control system. H. D. James and R. E. De Camp. No. 1,392,060; Sept. 27; v. 290; p. 732.
- Control system. H. L. Keith. No. 1,387,990; Aug. 16; v. 289; p. 526.
- Control system. P. L. Mardis and L. G. Riley. No. 1,371,566; Mar. 15; v. 284; p. 456.
- Control system. P. L. Mardis. No. 1,387,503; Aug. 16; v. 289; p. 429.
- Control system. P. L. Mardis. No. 1,395,349; Nov. 1.
- Control system. H. R. Meyer. No. 1,389,150; Aug. 30; v. 289; p. 867.
- Control system. A. A. Ponsonby. No. 1,379,693; May 31; v. 286; p. 888.
- Control system. G. F. Smith. No. 1,367,103; Feb. 1; v. 283; p. 44.
- Control system. W. Sykes. No. 1,367,106; Feb. 1; v. 283; p. 44.
- Control system and apparatus. B. O. Austin. No. 1,374,545; Apr. 12; v. 285; p. 267.
- Control system and apparatus. H. A. Lewis. No. 1,387,498; Aug. 16; v. 289; p. 428.
- Control system, Motor. H. D. James. No. 1,370,019; Mar. 1; v. 284; p. 50.
- Control system, Motor. H. D. James. No. 1,392,058; Sept. 27; v. 290; p. 732.
- Control system, Motor. L. Miller. No. 1,370,034; Mar. 1; v. 284; p. 53.
- Control, System of. J. A. Clarke, Jr. No. 1,396,812; Nov. 15.
- Control, System of. A. J. Hall. No. 1,393,439; Oct. 11.
- Control, System of. R. E. Hellmund. No. 1,376,431; May 3; v. 286; p. 10.
- Control, System of. H. R. Meyer. No. 1,396,866; Nov. 15.
- Control, System of. H. T. Morris. No. 1,386,016; Aug. 2; v. 289; p. 11.
- Control, System of. L. M. Perkins. No. 1,374,521; Apr. 12; v. 285; p. 262.
- Control, System of. O. S. Schairer and W. R. Coley. No. 1,382,935; June 28; v. 287; p. 661.
- Control, System of. K. A. Simmon. No. 1,376,466; May 3; v. 286; p. 17.
- Control, System of. K. A. Simmon. No. 1,376,468; May 3; v. 286; p. 17.
- Control, System of. K. A. Simmon. No. 1,399,408; Dec. 6.
- Control, System of. N. W. Storer. No. 1,374,535; Apr. 12; v. 285; p. 265.
- Control, System of. N. W. Storer. No. 1,384,495; July 12; v. 288; p. 305.
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- Control system, Speed. J. H. Roddey. No. 1,368,755; Feb. 15; v. 283; p. 471.
- Controller. R. Ehrenfeld and N. Hansen. No. 1,390,515; Sept. 13; v. 290; p. 283.
- Controller. H. D. James. No. 1,379,691; May 31; v. 286; p. 887.
- Controller. H. D. James. No. 1,385,002; Aug. 2; v. 289; p. 8.
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- Controller. D. L. Lindquist and D. C. Larson. No. 1,364,389; Jan. 4; v. 282; p. 66.
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- Controlling and regulating, Method and means for. J. M. Hopwood. No. 1,400,550; Dec. 20.
- Controlling device. W. F. Clark. No. 1,373,411; Apr. 5; v. 285; p. 6.
- Controlling device. S. G. Langley. No. 1,380,486; June 7; v. 287; p. 31.
- Controlling device. F. A. McDaniels. No. 1,401,093; Dec. 20.
- Controlling device. F. D. Newbury. No. 1,400,092; Dec. 13.
- Controlling device, Electric. R. Conrader. No. 1,368,323; Feb. 15; v. 283; p. 387.
- Controlling device, Twin-mill. J. C. Keller. No. 1,368,806; Feb. 15; v. 283; p. 481.
- Controlling mechanism. C. R. Underhill. No. 1,395,066; Oct. 25.
- Controlling mechanism. L. E. Willard. No. 1,392,378; Oct. 4.
- Converter. W. C. Korthals-Altes. No. 1,371,908; Mar. 15; v. 284; p. 520.
- Converter. W. C. Korthals-Altes. No. 1,380,978; June 7; v. 287; p. 126.
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- Converter-exciting system, Phase. R. E. Hellmund. No. 1,376,429; May 3; v. 286; p. 10.
- Converter, Self-compounding phase. R. E. Hellmund. No. 1,376,428; May 3; v. 286; p. 10.
- Converter systems, Flash-over-suppressing means for rotary. F. C. Hanker. No. 1,392,052; Sept. 27; v. 290; p. 731.
- Converter systems, Means for suppressing flash-overs in rotary. N. W. Storer. No. 1,392,087; Sept. 27; v. 290; p. 738.
- Converters, Gas-discharge conduit for rotary. W. H. Howard. No. 1,375,965; Apr. 26; v. 285; p. 633.
- Converters, Means for reducing commutator-flashing in rotary. N. W. Storer. No. 1,392,088; Sept. 27; v. 290; p. 738.
- Converters, Method of and apparatus for exciting phase. R. E. Hellmund. No. 1,376,430; May 3; v. 286; p. 10.
- Converters, Starting device for vapor. A. L. Atherton. No. 1,371,966; Mar. 15; v. 284; p. 531.
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- Convertible chair. L. E. Erbeau. No. 1,389,940; Sept. 6; v. 290; p. 77.
- Convertible chair. J. Bezold. No. 1,377,868; May 10; v. 286; p. 341.
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- Conveyer. C. Candlot. No. 1,386,158; Aug. 2; v. 289; p. 39.
- Conveyer. C. Davis. No. 1,370,417; Mar. 1; v. 284; p. 125.
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- Conveyer. D. Jons, Jr. No. 1,369,528; Feb. 22; v. 283; p. 660.
- Conveyer. F. G. Lewis. No. 1,399,130; Dec. 6.
- Conveyer. P. W. Morrissey. No. 1,381,328; June 14; v. 287; p. 243.
- Conveyer. W. Robertson. No. 1,378,901; May 24; v. 286; p. 664.
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- Conveyer, Rotary. F. C. Jacoby. No. 1,401,155; Dec. 27.
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- Conveyers, Intake-feeder for suction. J. F. Barkley. No. 1,382,454; June 21; v. 287; p. 516.
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- Conveyers, &c., Roller for gravity. M. U. Burnham. No. 1,373,047; Mar. 29; v. 284; p. 839.
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- Conveying mechanism. N. A. Newdick. No. 1,375,060; Apr. 19; v. 285; p. 429.
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- Cooker, Fireless. J. E. Chambers. No. 1,389,813; Sept. 6; v. 290; p. 51.
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- Cooker, Pressure-. A. R. Thompson. No. 1,385,594; July 26; v. 288; p. 689.
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- Cooker, Steam-. G. W. Atkinson. No. 1,400,475; Dec. 13.
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- Cooker, Steam-. F. J. Kroupa. No. 1,369,249; Feb. 22; v. 283; p. 606.
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- Cooking apparatus. A. M. Demuth. No. 1,393,762; Oct. 18.
- Cooking apparatus. A. M. Demuth. No. 1,393,763; Oct. 18.
- Cooking apparatus. F. E. Morris. No. 1,401,945; Dec. 27.
- Cooking apparatus. G. F. Purrrington. No. 1,368,351; Feb. 15; v. 283; p. 392.
- Cooking device, Steam-. O. Tollagsen. No. 1,375,028; Apr. 19; v. 285; p. 422.
- Cooking device. K. A. Weisgarber. No. 1,398,757; Nov. 29.
- Cooking-machine, Automatic. O. E. Vance and P. S. Baker. No. 1,385,330; July 19; v. 288; p. 558.
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- Cooking or heating vessel and apparatus, Electric. C. H. Lauth. Nos. 1,398,866-7; Nov. 29.
- Cooking or sterilizing machine. W. B. Fenn. No. 1,377,214; May 10; v. 286; p. 215.
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- Cooking-retort. F. B. Donnellan. No. 1,396,266; Nov. 8.
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- Cooking set. W. H. Russell. No. 1,387,667; Aug. 16; v. 289; p. 462.
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- Cooking utensil, Steam. H. Schafer. No. 1,371,520; Mar. 15; v. 284; p. 446.
- Cooking utensils and receptacles, Lid-holder for. W. W. Brown. No. 1,395,554; Nov. 1.
- Cooking utensils, Conductor for disposing of fumes arising from. J. J. Barnes. No. 1,375,548; Apr. 19; v. 285; p. 522.
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- Cooking utensils, Device for supporting. F. W. Cantleberry. No. 1,366,872; Jan. 25; v. 282; p. 677.
- Cooking utensils, Supplemental handle for. F. R. Kolb. No. 1,365,703; Jan. 18; v. 282; p. 403.
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- Cooking-vessel lifter. H. L. Angus. No. 1,367,529; Feb. 8; v. 283; p. 187.
- Cooking-vessel wiper, Economic. W. Meredith. No. 1,388,282; Aug. 23; v. 289; p. 641.
- Cooking vessels, Handle and shield for. J. V. Lafond. No. 1,391,125; Sept. 20; v. 290; p. 470.
- Cooler. *See—*
- |                         |                      |
|-------------------------|----------------------|
| Air-cooler.             | Food or like cooler. |
| Butter-cooler.          | Oil-cooler.          |
| Flatiron-handle cooler. | Water-cooler.        |
- Cooler. W. Clayton and G. Nodder. No. 1,375,210; Apr. 19; v. 285; p. 457.
- Cooler. K. Fugita. No. 1,383,925; July 5; v. 288; p. 138.
- Cooler. G. F. Knox. No. 1,377,692; May 10; v. 286; p. 306.
- Cooler. H. S. Schopf. No. 1,386,900; Aug. 9; v. 289; p. 259.
- Cooler. W. O. Thompson. No. 1,399,448; Dec. 6.
- Cooler display-case and refrigerator, Combined. G. C. Amend. No. 1,397,392; Nov. 15.
- Cooling and aerating device, Liquid. C. D. Crane. No. 1,384,938; July 19; v. 288; p. 478.
- Cooling apparatus. C. S. Clarkson. No. 1,387,834; Aug. 16; v. 289; p. 496.
- Cooling apparatus. H. E. Leavitt. No. 1,393,226; Oct. 11.
- Cooling apparatus. M. Wahl. No. 1,373,468; Apr. 5; v. 285; p. 17.
- Cooling chocolates, &c., Machine for. F. W. Leyland and E. F. Brock. No. 1,389,887; Sept. 6; v. 290; p. 66.
- Cooling-container. E. Thompson. No. 1,369,367; Feb. 22; v. 283; p. 629.
- Cooling device. F. D. Howe. No. 1,400,878; Dec. 20.
- Cooling element. F. Ljungström. No. 1,401,482; Dec. 27.
- Cooling materials, Apparatus for. M. Mathy. No. 1,385,686; July 26; v. 288; p. 698.
- Cooling packages in processing, Method and apparatus for. G. W. Luhrmann. No. 1,385,630; July 26; v. 288; p. 696.
- Cooling system. G. S. Blankenhorn. No. 1,374,907; Apr. 19; v. 285; p. 398.
- Cooling system. W. Oates, Jr. No. 1,398,199; Nov. 22.
- Cooling system. S. W. Rushmore. No. 1,378,724; May 17; v. 286; p. 558.
- Cooling system, Automatic. M. D. M. Fairman. No. 1,376,086; Apr. 26; v. 285; p. 657.
- Cooling system, Water pumps and aerator for. F. F. Krause. No. 1,370,823; Mar. 8; v. 284; p. 249.
- Cooling-tank. H. C. Follinger. No. 1,384,311; July 12; v. 288; p. 267.
- Cooling-tower. E. Burhorn. No. 1,394,605; Oct. 25.
- Coop, Combined setting and brooding. D. W. Bush, Jr. No. 1,387,682; Aug. 16; v. 289; p. 465.
- Coop, Hog-. J. W. Rushton. No. 1,367,835; Feb. 8; v. 283; p. 246.
- Coop, Wheeling-. C. D. Leonard and H. J. Hauser. No. 1,397,693; Nov. 22.
- Coop, Wire-bound. A. M. Hood. No. 1,383,119; June 28; v. 287; p. 695.
- Cop-cone. J. O. McKean. No. 1,391,961; Sept. 27; v. 290; p. 712.
- Cop-mounting. W. A. Houck. No. 1,377,416; May 10; v. 286; p. 255.
- Coping and notching machine, Combination. H. B. Kraut. No. 1,389,878; Sept. 6; v. 290; p. 64.
- Copper-bearing solutions, Electrolysis of. P. R. Middleton. No. 1,397,647; Nov. 22.
- Copper, Case-hardening. A. S. Gundersen. No. 1,372,423; Mar. 22; v. 284; p. 676.
- Copper catalyst. D. A. Legg. No. 1,401,117; Dec. 20.
- Copper-engraving process, Imitation-. A. C. J. Marchisio. No. 1,385,567; July 26; v. 288; p. 684.
- Copper from acid solutions, Electrolytic disposition of. F. E. Studt. No. 1,378,145; May 17; v. 286; p. 447.
- Copper, Hydrometallurgy of. G. A. Bragg. No. 1,395,755; Nov. 1.
- Copper-nickel matte, Refining. N. V. Hybinette and R. L. Peek. No. 1,382,361; June 21; v. 287; p. 497.
- Copper, Process of and apparatus for refining. O. C. Martin. No. 1,400,892; Dec. 20.
- Copper sweeps and scraps, Treatment of. C. C. Clito. No. 1,367,768; Feb. 8; v. 283; p. 232.
- Copy-holder. F. W. Beeghley. No. 1,374,056; Apr. 5; v. 285; p. 131.
- Copy-holder. G. W. Furrey. No. 1,370,737; Mar. 8; v. 284; p. 232.



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- Copy-holder. H. R. King and A. F. Adams. No. 1,369,760; Feb. 22; v. 283; p. 706.
- Copy-holder. E. Prouty. No. 1,378,612; May 17; v. 286; p. 536.
- Copy-holder. A. Restrepo. No. 1,375,731; Apr. 26; v. 285; p. 589.
- Copy-holder. E. W. Rothfus. No. 1,390,723; Sept. 13; v. 290; p. 325.
- Copy-holder. A. N. Woodruff. No. 1,383,897; July 5; v. 288; p. 132.
- Copy-holder. A. N. Woodruff. No. 1,389,411; Aug. 30; v. 289; p. 919.
- Copy-holder, Adjustable. L. P. Curtis. No. 1,400,730; Dec. 20.
- Copy-sheet. R. W. Schwybold. No. 1,371,818; Mar. 15; v. 284; p. 503.
- Copying-pad. N. B. Browne. No. 1,364,542; Jan. 4; v. 282; p. 96.
- Cord-fastener. C. F. Voss. No. 1,365,872; Jan. 18; v. 282; p. 437.
- Cord-retaining means. W. H. Smith. No. 1,386,537; Aug. 2; v. 289; p. 112.
- Cord-tip. J. P. Kelly. No. 1,392,339; Oct. 4.
- Cords, &c., Adjustable slack-holder for. O. F. and E. Westrup. No. 1,386,918; Aug. 9; v. 289; p. 262.
- Cords or other like articles, Method and apparatus for making. W. J. Steinle. No. 1,365,560; Jan. 11; v. 282; p. 336.
- Core. V. L. Cox. No. 1,371,775; Mar. 15; v. 284; p. 495.
- Core and chuck, Collapsible. P. De Mattia. No. 1,389,438; Aug. 30; v. 289; p. 925.
- Core and mold therefor, Expandable. B. Darrow. No. 1,375,214; Apr. 19; v. 285; p. 458.
- Core, Armature-. J. B. Bushnell. No. 1,365,224; Jan. 11; v. 282; p. 271.
- Core-box. S. B. and G. C. De Ved. No. 1,387,581; Aug. 16; v. 289; p. 435.
- Core, Casting. H. T. Edwards. No. 1,384,438; July 12; v. 288; p. 294.
- Core, Collapsible. J. N. Boyce. No. 1,397,073; Nov. 15.
- Core, Collapsible. P. De Mattia. No. 1,389,439; Aug. 30; v. 289; p. 925.
- Core, Collapsible. B. De Mattia. No. 1,389,440; Aug. 30; v. 289; p. 925.
- Core, Collapsible. B. De Mattia. No. 1,389,441; Aug. 30; v. 289; p. 925.
- Core, Collapsible. E. M. McCurry and G. R. Bilger. No. 1,365,709; Jan. 18; v. 282; p. 404.
- Core, Collapsible. F. Meyer. No. 1,398,236; Nov. 29.
- Core, Collapsible. T. Midgley. No. 1,392,347; Oct. 4.
- Core, Collapsible. T. Midgley, Sr. No. 1,382,007; June 21; v. 287; p. 431.
- Core, Collapsible. T. Midgley, Sr. No. 1,389,892; Sept. 6; v. 290; p. 67.
- Core, Collapsible. J. Traum. No. 1,368,862; Feb. 15; v. 283; p. 492.
- Core, Collapsible annular. P. E. Welton. No. 1,369,720; Feb. 22; v. 283; p. 698.
- Core compound. W. Hoskins. No. 1,392,013; Sept. 27; v. 290; p. 724.
- Core, Contractible. M. H. Paine. No. 1,396,280; Nov. 8.
- Core, Expandable. A. Huetter. No. 1,400,219; Dec. 13.
- Core-forming device. R. P. Viar. No. 1,373,578; Apr. 5; v. 285; p. 39.
- Core laminations, Method of and means for assembling. C. Atkins. No. 1,375,072; Apr. 19; v. 285; p. 431.
- Core-making machine, Battery-. J. Graves. No. 1,382,639; June 28; v. 287; p. 604.
- Core, Mold-. C. F. Strausbaugh. No. 1,371,525; Mar. 15; v. 284; p. 447.
- Core, Molding-. T. C. Marshall. No. 1,392,072; Sept. 27; v. 290; p. 735.
- Core-molding machine. M. Janzuck. No. 1,381,310; June 14; v. 287; p. 240.
- Core or other rack. A. H. Levene. No. 1,385,012; July 19; v. 288; p. 494.
- Cores, Apparatus for covering. J. Janicki. No. 1,378,961; May 24; v. 286; p. 675.
- Cores, Device for shaping the ends of hollow. A. L. Reagles. No. 1,365,271; Jan. 11; v. 282; p. 280.
- Cores, Manufacture of composition. H. T. Bellamy. No. 1,384,587; July 12; v. 288; p. 325.
- Cores, Steam connection for hollow. T. Midgley. No. 1,377,245; May 10; v. 286; p. 221.
- Cored tubular bodies, Making. P. A. E. Armstrong. No. 1,390,746; Sept. 13; v. 290; p. 330.
- Corer, Apple-. S. Szütz. No. 1,371,948; Mar. 15; v. 284; p. 528.
- Coring-machine. M. G. de Simone. No. 1,382,632; June 28; v. 287; p. 603.
- Cork-extractor. G. W. Gomber. No. 1,375,382; Apr. 19; v. 285; p. 490.
- Cork-feeding device. T. Allatt. No. 1,386,485; Aug. 2; v. 289; p. 101.
- Cork-feeding device. T. Allatt. No. 1,395,248; Nov. 1.
- Cork, Fishing-. B. Johnson. No. 1,371,170; Mar. 8; v. 284; p. 314.
- Corn and cotton chopper. J. C. Smith. No. 1,390,173; Sept. 6; v. 290; p. 124.
- Corn cleaning and sorting machine. A. Sternad. No. 1,399,412; Dec. 6.
- Corn-creamer. W. Olcott. No. 1,401,635; Dec. 27.
- Corn-cribs, Wall structure for. J. H. Irey. No. 1,382,362; June 21; v. 287; p. 497.
- Corn-cutter. H. W. Cooper. No. 1,367,126; Feb. 1; v. 283; p. 48.
- Corn-cutting device. D. E. Ryder. No. 1,395,929; Nov. 1.
- Corn-elevator. E. E. Jespersen. No. 1,365,173; Jan. 11; v. 282; p. 261.
- Corn-flakes and making same. J. K. Lippen. No. 1,364,634; Jan. 4; v. 282; p. 113.
- Corn-holder. A. G. Suderman. No. 1,391,283; Sept. 20; v. 290; p. 502.
- Corn-husking device. S. E. and W. W. Morral. No. 1,388,286; Aug. 23; v. 289; p. 642.
- Corn-husking machine. W. H. Leister. No. 1,382,792; June 28; v. 287; p. 634.
- Corn-husking machine. S. E. and W. W. Morral. No. 1,372,767; Mar. 29; v. 284; p. 783.
- Corn-husking table. R. Thompson. No. 1,393,648; Oct. 11.
- Corn, Machine for butting ears of. W. W. Morral. No. 1,376,720; May 3; v. 286; p. 64.
- Corn-picker. J. T. Hughes. No. 1,373,428; Apr. 5; v. 285; p. 9.
- Corn-plater attachment. R. G. Knorr. No. 1,366,915; Feb. 1; v. 283; p. 7.
- Corn-popper. G. P. Ames. No. 1,382,592; June 21; v. 287; p. 542.
- Corn-sheller. A. E. Gilman. No. 1,390,030; Sept. 6; v. 290; p. 95.
- Corn-thinner. R. D. Estes. No. 1,394,291; Oct. 18.
- Corn trimmer, Green-cob-. J. E. and W. H. Smith. No. 1,367,508; Feb. 1; v. 283; p. 124.
- Corncrib. F. Adam. No. 1,383,013; Aug. 16; v. 289; p. 530.
- Corner-brace. J. Lill. No. 1,392,839; Oct. 4.
- Corner cutting and bending machine. W. A. Weightman and C. H. Mitsch. No. 1,386,292; Aug. 2; v. 289; p. 65.
- Corner-fastening. F. Kusterle. No. 1,389,950; Sept. 6; v. 290; p. 79.
- Corner-joint. J. K. Shaw. No. 1,376,587; May 3; v. 286; p. 39.
- Corner-joints of beveled lap-sidings, Protector for the. H. P. M. Hansen. No. 1,366,175; Jan. 18; v. 282; p. 495.
- Corner-stand. J. E. Boyle. No. 1,374,633; Apr. 12; v. 285; p. 284.
- Corse-carrying device. G. F. Harrington and A. J. Podawiltz. No. 1,397,515; Nov. 22.
- Corrosive action, Protecting fabrics and packings, such as bags, against chemical. A. Bruno. No. 1,367,177; Feb. 1; v. 283; p. 59.
- Corrugated-board-making machine. M. B. Diskin. No. 1,396,818; Nov. 15.
- Corrugated dry-battery cup. A. C. Recker. No. 1,374,168; Apr. 5; v. 285; p. 152.
- Corrugating-machine. E. O. Lundin. No. 1,365,258; Jan. 11; v. 282; p. 277.
- Corset. A. K. Bott. No. 1,397,570; Nov. 22.
- Corset. V. Buchanan. No. 1,377,614; May 10; v. 286; p. 292.
- Corset. A. J. Lecoutre. No. 1,384,137; July 12; v. 288; p. 232.
- Corset. E. Thompson. No. 1,398,657; Nov. 29.
- Corset and fastening system therefor. A. J. Lecoutre. No. 1,381,651; June 14; v. 287; p. 303.
- Corset, Apparel-. D. Kops. No. 1,365,504; Jan. 11; v. 282; p. 325.
- Corset, Apparel-. D. Kops. No. 1,366,190; Jan. 18; v. 282; p. 498.
- Corset, Apparel-. D. Kops. No. 1,366,811; Jan. 25; v. 282; p. 666.
- Corset, Apparel-. D. Kops. (Reissue). No. 15,134; June 28; v. 287; p. 725.
- Corset, Apparel-. D. Kops. Nos. 1,399,486-7; Dec. 6.
- Corset, Apparel-. D. Kops. No. 1,400,294; Dec. 13.
- Corset-clasp. G. W. Gardner. No. 1,390,776; Sept. 13; v. 290; p. 336.
- Corset-top pad. L. Starkey. No. 1,394,370; Oct. 18.
- Corsets, Front steels on. A. G. Lecoutre. No. 1,391,393; Sept. 20; v. 290; p. 524.
- Corsets, Measuring apparatus for. L. C. Hilliard. No. 1,397,865; Nov. 22.
- Corsets, Pocket for. L. M. Andrews. No. 1,374,172; Apr. 12; v. 285; p. 195.
- Costume, Sport-. M. E. Heinrich. No. 1,396,203; Nov. 8.
- Cot. I. S. Purcell. No. 1,394,578; Oct. 25.
- Cot, Collapsible roofed. I. S. Purcell. No. 1,374,386; Apr. 12; v. 285; p. 236.
- Cot, Foldable. G. Missogenis. No. 1,392,195; Sept. 27; v. 290; p. 759.
- Cot, Folding. G. Coray. No. 1,367,465; Feb. 1; v. 283; p. 116.
- Cot, Folding. H. A. Mackie. No. 1,366,330; Jan. 18; v. 282; p. 526.
- Cot, Folding. J. C. Pewther. No. 1,379,286; May 24; v. 286; p. 736.
- Cot, Folding. I. S. Purcell. No. 1,374,387; Apr. 12; v. 285; p. 236.
- Cot, Folding. D. W. Richards. No. 1,396,593; Nov. 8.
- Cot, Folding. C. D. Winfield. No. 1,398,758; Nov. 29.
- Cot for use with automobiles, Portable. C. F. Ball. No. 1,401,938; Dec. 27.
- Cotter-pln. H. R. Francis. No. 1,379,908; May 31; v. 286; p. 927.



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- Cotter-pin extractor. F. Cooper and G. C. Hill. No. 1,382,477; June 21; v. 287; p. 520.
- Cotter-pin extractor. E. R. Galebach. No. 1,398,543; Nov. 29.
- Cotter-pin extractor. J. L. Williams. No. 1,389,406; Aug. 30; v. 289; p. 918.
- Cotter-pin, lynchpin, &c. A. G. Francé. No. 1,390,609; Sept. 13; v. 290; p. 303.
- Cotter-pin retainer. W. J. Lee. No. 1,368,989; Feb. 15; v. 283; p. 515.
- Cotton-blocker. A. J. Fowler. No. 1,368,621; Feb. 15; v. 283; p. 445.
- Cotton-blocking machine. B. S. Ford. No. 1,390,114; Sept. 6; v. 290; p. 112.
- Cotton-chopper. E. J. Antoni. No. 1,383,055; June 28; v. 287; p. 684.
- Cotton-chopper. D. S. Bazemore. No. 1,369,604; Feb. 22; v. 283; p. 675.
- Cotton-chopper. M. D. Boland. No. 1,387,344; Aug. 9; v. 289; p. 346.
- Cotton-chopper. J. L. Doss. No. 1,39,100; Sept. 6; v. 290; p. 110.
- Cotton-chopper. M. B. King. No. 1,371,099; Mar. 8; v. 284; p. 300.
- Cotton-chopper. B. Schwab, R. Schneider, and H. Hegenauer. No. 1,374,474; Apr. 12; v. 285; p. 253.
- Cotton-chopper. W. H. Smith. No. 1,383,772; July 5; v. 288; p. 107.
- Cotton-chopper. M. H. Stevenson. No. 1,381,028; June 7; v. 287; p. 136.
- Cotton-chopper. C. W. White. No. 1,380,281; May 31; v. 286; p. 998.
- Cotton-chopper. W. J. Wilson. No. 1,370,078; Mar. 1; v. 284; p. 61.
- Cotton chopper and cultivator, Combined. J. H. Smith. No. 1,389,461; Aug. 30; v. 289; p. 929.
- Cotton-choppers. B. P. Collier. No. 1,391,246; Sept. 20; v. 290; p. 494.
- Cotton-cleaner. G. C. Stacy. No. 1,369,716; Feb. 22; v. 283; p. 697.
- Cotton-cleaner and boll-breaker. G. C. Stacy. No. 1,397,257; Nov. 15.
- Cotton cleaner, Seed-. C. C. Biggerstaff. No. 1,395,382; Nov. 1.
- Cotton cleaning and separating machine. J. E. Mitchell. No. 1,395,054; Oct. 25.
- Cotton-compress. R. D. Webb. No. 1,387,633; Aug. 16; v. 289; p. 455.
- Cotton extracting and cleaning machine. J. E. Mitchell. No. 1,383,007; June 28; v. 287; p. 674.
- Cotton fabric. G. Heberlein. No. 1,392,264; Sept. 27; v. 290; p. 774.
- Cotton fabric. G. Heberlein. No. 1,392,265; Sept. 27; v. 290; p. 774.
- Cotton fabrics, Improving. G. A. Bosshard. No. 1,395,472; Nov. 1.
- Cotton fibers and products, Treating. W. C. Johnson. No. 1,396,960; Nov. 15.
- Cotton-gin. R. H. Milam. No. 1,367,491; Feb. 1; v. 283; p. 121.
- Cotton-gins, Hulling and cleaning feeder for. J. M. Peerson. No. 1,396,142; Nov. 8.
- Cotton-gins, Roller for. E. R. Tischer. No. 1,370,383; Mar. 1; v. 284; p. 120.
- Cotton, linen, or similar threads, Machine for splicing and piecing. A. Bennett. No. 1,396,618; Nov. 8.
- Cotton-lint collector. A. Stables. No. 1,396,673; Nov. 8.
- Cotton. Machine for treating. J. F. Levering. No. 1,394,775; Oct. 25.
- Cotton or wool holding device, Crochet. W. H. Crowell. No. 1,384,602; July 12; v. 288; p. 328.
- Cotton-packer. F. B. Williams. No. 1,392,097; Sept. 27; v. 290; p. 740.
- Cotton-pest-destroying machine. J. M. Saladiner. No. 1,382,017; June 21; v. 287; p. 433.
- Cotton-picker. J. P. Cruise. No. 1,371,827; Apr. 12; v. 285; p. 321.
- Cotton-picker. T. H. Price, B. C. White, and W. J. Dudley. No. 1,387,176; Aug. 9; v. 289; p. 312.
- Cotton-picker. J. P. Roach. No. 1,366,837; Jan. 25; v. 282; p. 670.
- Cotton-picker. T. J. Smith. No. 1,373,983; Apr. 5; v. 285; p. 118.
- Cotton-picker. J. V. Wafford. No. 1,364,670; Jan. 4; v. 282; p. 120.
- Cotton-picker head. I. E. McGehee. No. 1,372,711; Mar. 29; v. 284; p. 772.
- Cotton-picker's bag. J. L. Kiley. No. 1,383,955; July 5; v. 288; p. 144.
- Cotton-picker's sack. S. N. Aker. No. 1,398,826; Nov. 29.
- Cotton-pickers, Evener-gear attachment for. W. R. Stone. No. 1,391,866; Sept. 27; v. 290; p. 693.
- Cotton picking and cleaning. G. R. Bennett. No. 1,398,930; Nov. 29.
- Cotton-picking apparatus. A. D. Alvin. No. 1,396,012; Nov. 8.
- Cotton-picking device. G. H. Vincent. No. 1,366,436; Jan. 25; v. 282; p. 590.
- Cotton-picking machine. G. T. Becknell. No. 1,382,886; June 28; v. 287; p. 651.
- Cotton-picking machine. A. E. Burges. No. 1,371,468; Mar. 15; v. 284; p. 436.
- Cotton-picking machine. A. J. Gipson. No. 1,378,021; May 17; v. 286; p. 423.
- Cotton-picking machine. E. P. Hayes. No. 1,401,076; Dec. 20.
- Cotton-presses, Condenser for. J. A. Taft. No. 1,379,229; May 24; v. 286; p. 726.
- Cotton product and making same. R. W. Jacoby. No. 1,398,378; Nov. 29.
- Cotton sack. P. J. Thomas. No. 1,386,447; Aug. 2; v. 289; p. 94.
- Cotton-scraper. J. D. Ramsey. No. 1,400,982; Dec. 20.
- Cotton-seed huller. J. W. Moore. No. 1,369,978; Mar. 1; v. 283; p. 42.
- Cotton-seed-meal press. J. R. McClung. No. 1,390,053; Sept. 6; v. 290; p. 100.
- Cotton separating and cleaning machine. J. E. Mitchell. No. 1,381,213; June 14; v. 287; p. 223.
- Cotton-separator. J. C. Garner. No. 1,397,001; Nov. 15.
- Cotton-stalk puller. T. H. Monk. No. 1,393,955; Oct. 18.
- Cotton-tramper. A. J. Hopkins. No. 1,388,715; Aug. 23; v. 289; p. 725.
- Cotton-tramper. J. E. Whitt. No. 1,387,747; Aug. 16; v. 289; p. 478.
- Cotton-treating machine, Lint-. H. Pettit. No. 1,401,439; Dec. 27.
- Couch and crib, Combined. T. B. Draper. No. 1,366,906; Feb. 1; v. 283; p. 5.
- Couch or bed, Combined knockdown sliding. A. J. Kreuzkamp. No. 1,368,510; Feb. 15; v. 283; p. 424.
- Couch-roll lifter. F. M. Goding. No. 1,368,715; Feb. 15; v. 283; p. 464.
- Counter. C. F. Hussey. No. 1,370,540; Mar. 8; v. 284; p. 194.
- Counter. J. E. Whitaker. No. 1,385,292; July 19; v. 288; p. 551.
- Counter and bin. V. H. Spinks. No. 1,398,161; Nov. 22.
- Counter construction. J. Shemilt. No. 1,385,478; July 26; v. 288; p. 665.
- Counter display folding box. F. D. Devlin. No. 1,379,395; May 24; v. 286; p. 758.
- Counter-fixture. M. Carver. No. 1,367,859; Feb. 8; v. 283; p. 250.
- Counter-forming machine. A. F. Jones. No. 1,381,126; June 14; v. 287; p. 207.
- Counter-guard construction. C. A. Gloekler. No. 1,379,553; May 24; v. 286; p. 787.
- Counter-protecting bracket. M. Kurtzon. No. 1,373,137; Mar. 29; v. 284; p. 857.
- Counter resetting, Revolution. A. C. Wood. No. 1,400,197; Dec. 13.
- Counterbalance-arm and spring. S. W. Nicholson. No. 1,401,355; Dec. 27.
- Counterboring-tool. C. W. Lipe. No. 1,387,652; Aug. 16; v. 289; p. 459.
- Countersink. M. J. Logan. No. 1,377,495; May 10; v. 286; p. 270.
- Countersink-gage. H. D. Sparling. No. 1,389,390; Aug. 30; v. 289; p. 915.
- Counting attachment. C. E. Casgrain. No. 1,394,274; Oct. 18.
- Counting-machine. C. H. Veeder. No. 1,385,408; July 26; v. 288; p. 650.
- Counting-machine. C. H. Veeder. No. 1,385,409; July 26; v. 288; p. 650.
- Counting-machine. C. H. Veeder. No. 1,385,410; July 26; v. 288; p. 651.
- Counting machine, Card-. E. G. Mergenthaler. No. 1,369,120; Feb. 22; v. 283; p. 581.
- Counting mechanism. W. F. Grupe. No. 1,393,525; Oct. 11.
- Counting out and paying sums of money, Machine for. H. A. Morris. No. 1,365,262; Jan. 11; v. 282; p. 278.
- Coups, Seating arrangement for. A. Gravel. No. 1,390,356; Sept. 13; v. 290; p. 251.
- Coupling: See—
- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| Air-coupling.                     | Magneto-coupling.                   |
| Air-brake coupling.               | Oldham coupling.                    |
| Automatic coupling.               | Pipe-coupling.                      |
| Automatic car-coupling.           | Pipe or hose coupling.              |
| Automatic releasing-coupling.     | Power-transmission coupling.        |
| Automatically-releasing coupling. | Pump-coupling.                      |
| Belt-coupling.                    | Quick-detachable swivel coupling.   |
| Cable-coupling.                   | Rod-coupling.                       |
| Car-coupling.                     | Rope-coupling.                      |
| Car and train-pipe coupling.      | Shaft-coupling.                     |
| Chain-coupling.                   | Spindle-coupling.                   |
| Conduit-pipe coupling.            | Spiral-spring coupling.             |
| Disk-coupling.                    | Swivel-coupling.                    |
| Draft-coupling.                   | Talking-machine sound-box coupling. |
| Drill-stem coupling.              | Tractor-coupling.                   |
| Electric coupling.                | Train-line coupling.                |
| Flexible coupling.                | Train-pipe coupling.                |
| Flexible shaft-coupling.          | Truck-coupling.                     |
| Friction-coupling.                | Tubular-section coupling.           |
| Hose-coupling.                    | Valve-coupling.                     |
| Hose and faucet coupling.         | Valvular coupling.                  |
| Impulse-coupling.                 | Vehicle-coupling.                   |
| Infating-coupling.                | Yielding coupling.                  |
| Key-coupling.                     |                                     |



*Alphabetical list of inventions—Continued.*

- Coupling. C. A. Borgeson. No. 1,375,822; Apr. 26; v. 285; p. 605.
- Coupling. C. W. Cathcart. No. 1,379,899; May 31; v. 286; p. 926.
- Coupling. H. H. Drew. No. 1,380,468; June 7; v. 287; p. 27.
- Coupling. W. J. Drucker. No. 1,397,370; Nov. 15.
- Coupling. G. M. Gullick. No. 1,376,332; Apr. 26; v. 285; p. 704.
- Coupling. W. B. Hathaway. No. 1,380,799; June 7; v. 287; p. 91.
- Coupling. J. T. Honen. No. 1,383,303; July 5; v. 288; p. 9.
- Coupling. W. C. Iftiger. No. 1,383,209; June 28; v. 287; p. 713.
- Coupling. J. F. Key. No. 1,385,080; July 19; v. 288; p. 508.
- Coupling. A. W. Knutson. No. 1,388,268; Aug. 23; v. 289; p. 638.
- Coupling. F. L. Lipcott. No. 1,382,657; June 28; v. 287; p. 608.
- Coupling. C. H. Pelton. No. 1,383,017; June 28; v. 287; p. 677.
- Coupling. H. E. Phelps. No. 1,398,276; Nov. 29.
- Coupling. J. G. Regenier. No. 1,372,904; Mar. 29; v. 284; p. 811.
- Coupling. J. Schneider. No. 1,393,171; Oct. 11.
- Coupling. C. Schram. No. 1,369,304; Feb. 22; v. 283; p. 616.
- Coupling. W. H. Siefer. No. 1,382,324; June 21; v. 287; p. 490.
- Coupling. R. W. Speece. No. 1,379,133; May 24; v. 286; p. 708.
- Coupling. G. E. Sprague. No. 1,364,218; Jan. 4; v. 282; p. 32.
- Coupling. T. Weber. No. 1,375,266; Apr. 19; v. 285; p. 468.
- Coupling. W. J. Welch and A. H. Tracy. No. 1,380,127; May 31; v. 286; p. 969.
- Coupling. J. C. Wells, Sr. No. 1,391,597; Sept. 20; v. 290; p. 565.
- Coupling. C. D. Young. No. 1,372,214; Mar. 22; v. 284; p. 636.
- Coupling and releasing device. A. H. Splittstoesser. No. 1,384,001; July 5; v. 288; p. 154.
- Coupling and yoke connection. E. George, Jr. No. 1,367,039; Feb. 1; v. 283; p. 31.
- Coupling and yoke connection. E. George, Jr., and I. H. Milliken. No. 1,399,610; Dec. 6.
- Coupling and yoke connection. W. Kelso. No. 1,399,563; Dec. 6.
- Coupling device. H. C. Yingling. No. 1,389,282; Aug. 30; v. 289; p. 893.
- Coupling device, Manually-operated safety. E. Schenk. No. 1,397,237; Nov. 15.
- Coupling-fastener. J. E. Lenholt. No. 1,378,693; May 17; v. 286; p. 552.
- Coupling for shafting. G. Fast. (Reissue.) No. 15,177; Aug. 16; v. 289; p. 558.
- Coupling for rods. T. R. Stanley. No. 1,389,787; Sept. 6; v. 290; p. 46.
- Coupling-hook. S. Oponiak and A. H. Rainftlen. No. 1,375,724; Apr. 26; v. 285; p. 588.
- Coupling-keeper. H. W. Wilson. No. 1,392,099; Sept. 27; v. 290; p. 740.
- Coupling-key. H. Lübeck. No. 1,397,530; Nov. 22.
- Coupling members, &c., Making flexible. R. A. Smith. No. 1,368,663; Feb. 15; v. 283; p. 453.
- Coupling-nipple. W. A. Rarig. No. 1,369,301; Feb. 22; v. 283; p. 615.
- Coupling-nipple. J. C. Smith. No. 1,385,157; July 19; v. 288; p. 525.
- Coupling-operating mechanism. A. J. Bazeley. Nos. 1,395,250-1; Nov. 1.
- Coupling-operating mechanism. J. Kelso. No. 1,372,233; Mar. 22; v. 284; p. 639.
- Coupling-operating mechanism. W. Kelso. No. 1,372,234; Mar. 22; v. 284; p. 639.
- Coupling-release mechanism. J. F. O'Connor. No. 1,386,796; Aug. 9; v. 289; p. 237.
- Coupling-release mechanism. J. F. O'Connor. No. 1,386,797; Aug. 9; v. 289; p. 237.
- Coupling-release rigging. S. H. Campbell. No. 1,387,685; Aug. 16; v. 289; p. 465.
- Coupling-release rigging. S. H. Campbell. Nos. 1,396,725-6; Nov. 15.
- Coupling-ring. F. E. Rice. No. 1,364,313; Jan. 4; v. 282; p. 52.
- Coupling tension members. G. Bodmer. No. 1,373,590; Apr. 5; v. 285; p. 41.
- Couplings, Control mechanism for fluid and electric. T. R. Brown. No. 1,386,234; Aug. 2; v. 289; p. 54.
- Couplings, Latching device for car-. T. H. Sanford. No. 1,369,358; Feb. 22; v. 283; p. 627.
- Couplings, Weather-protector for. H. F. Woernley. No. 1,400,649; Dec. 20.
- Coupon-cutter. J. Zealand. No. 1,365,070; Jan. 11; v. 282; p. 241.
- Coupon or card feeding device. F. C. Schofield. No. 1,396,531; Nov. 8.
- Coupon system. E. Stebbings. No. 1,394,262; Oct. 18.
- Course-indicator. G. F. Buckle and F. Parfett. No. 1,380,768; June 7; v. 287; p. 84.
- Cover and ladle, Combined. E. L. Condon. No. 1,391,371; Sept. 20; v. 290; p. 519.
- Cover and support for carriers. R. P. Orr. No. 1,385,224; July 19; v. 288; p. 538.
- Cover fastener, Box-. L. S. Prentiss. No. 1,364,802; Jan. 4; v. 282; p. 146.
- Cover for ensilage. J. H. Stacy. No. 1,380,849; June 7; v. 287; p. 101.
- Cover-lifting device. S. H. Ness. No. 1,376,630; May 3; v. 286; p. 47.
- Cover-lock. G. A. Burnham. No. 1,398,499; Nov. 29.
- Cover, Overbox-. H. R. Crews. No. 1,384,517; July 12; v. 288; p. 310.
- Cover, Pedal-. T. C. Carver. No. 1,370,730; Mar. 8; v. 284; p. 231.
- Cover pin, Seat-. F. L. Becker. No. 1,364,540; Jan. 4; v. 282; p. 96.
- Cover-sealing means. W. H. Ray. No. 1,394,581; Oct. 25.
- Cover, Slip-on-. P. M. Lockwood. No. 1,384,908; July 19; v. 288; p. 472.
- Cover, Spring-. C. B. Woodworth. No. 1,380,858; June 7; v. 287; p. 102.
- Cover-support. E. T. Dunn. No. 1,368,207; Feb. 8; v. 283; p. 316.
- Cover-support. A. F. Zega. No. 1,394,879; Oct. 25.
- Covers, Fastener for. C. W. Davis. No. 1,394,672; Oct. 25.
- Covers, Means for supplying temporary table-. W. de Mattos. No. 1,397,800; Nov. 22.
- Covers or members, Support for hinged. F. E. Levanseler. No. 1,370,135; Mar. 1; v. 284; p. 71.
- Covers, Supporting-brace for. T. A. Watts. No. 1,378,298; May 17; v. 286; p. 476.
- Coveralls. F. Beronio. No. 1,390,010; Sept. 6; v. 290; p. 91.
- Covering material to forms, Machine and process for affixing. O. B. Greenwood. No. 1,393,772; Oct. 18.
- Covering, Protective. N. N. Whiteside. No. 1,398,165; Nov. 22.
- Coverings, Support for protective. N. W. Morant. No. 1,376,218; Apr. 26; v. 285; p. 682.
- Cow-barn-gutter grate. J. Hotz. No. 1,366,384; Jan. 25; v. 282; p. 580.
- Cow-halter. S. A. Schneider and A. R. Meyer. No. 1,375,184; Apr. 19; v. 285; p. 453.
- Cow-tail holder. A. Blackburn. No. 1,383,902; July 5; v. 288; p. 133.
- Cow-tail holder. O. B. Johnson. No. 1,380,211; May 31; v. 286; p. 985.
- Cow-tail holder, Sanitary. S. H. Hipkins. No. 1,389,507; Aug. 30; v. 289; p. 938.
- Cows, Antikicking device for. A. Blackburn. No. 1,383,901; July 5; v. 288; p. 133.
- Cows, Milking-machine for. W. A. Shippert. No. 1,365,064; Jan. 11; v. 282; p. 239.
- Cowl-ventilators for motor-vehicles. F. L. Lunt and P. F. Hatch. No. 1,385,255; July 19; v. 288; p. 544.
- Crab-meat-extracting apparatus. A. H. Range. No. 1,385,951; July 26; v. 288; p. 760.
- Cradle. F. N. Chambers. No. 1,386,236; Aug. 2; v. 289; p. 55.
- Cradle. J. Jacob. No. 1,400,748; Dec. 20.
- Cradle. B. C. Silver. No. 1,368,849; Feb. 15; v. 283; p. 490.
- Cradle, Automatic rocking. A. J. Lawson. No. 1,374,507; Apr. 12; v. 285; p. 259.
- Cradle, Folding doll-. H. J. Hauser. No. 1,368,145; Feb. 8; v. 283; p. 304.
- Cradle, Lumber-. E. G. Swartz. No. 1,401,206; Dec. 27.
- Cradle, Swinging. J. S. Nimicks. No. 1,388,117; Aug. 16; v. 289; p. 550.
- Craft, Automatic balanced rudder for air, water, and submarine. F. Conti. No. 1,382,170; June 21; v. 287; p. 461.
- Craft direction-indicator for air and marine. F. L. and J. B. Pentz. No. 1,376,727; May 3; v. 286; p. 65.
- Craft, Safety water-. L. J. Ring. No. 1,387,665; Aug. 16; v. 289; p. 461.
- Craft, Water-. W. J. Hafstrom. No. 1,372,749; Mar. 29; v. 284; p. 779.
- Crane. G. W. Zastrow. No. 1,379,378; May 24; v. 286; p. 754.
- Crane and like hoisting apparatus. J. Jardine. No. 1,368,157; Feb. 8; v. 283; p. 306.
- Crane, Dock-. F. L. Sabin. No. 1,378,981; May 24; v. 286; p. 679.
- Crane, Donkey-engine. H. A. Fredericks. No. 1,380,292; May 31; v. 286; p. 1000.
- Crane-hook. J. Hausler. No. 1,367,044; Feb. 1; v. 283; p. 32.
- Crane, Mail-. T. A. White. No. 1,372,383; Mar. 22; v. 284; p. 668.
- Crane or davit. H. W. Broady. No. 1,388,831; Aug. 23; v. 289; p. 748.
- Crane, Overhead. E. H. Steedman. No. 1,397,558; Nov. 22.
- Crane, Portable. R. Craig. No. 1,380,779; June 7; v. 287; p. 87.
- Crane, Portable. J. Dykes. No. 1,374,837; Apr. 12; v. 285; p. 323.
- Crane, Self-propelling. G. Brun. No. 1,371,852; Mar. 15; v. 284; p. 510.
- Crane, Traveling. K. S. Howard. No. 1,380,558; June 7; v. 287; p. 44.



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- Crane, Wall-. F. C. Biggert, Jr. No. 1,383,065; June 28; v. 287; p. 686.
- Cranes and carriages, Propelling and braking means for traveling. M. B. Benson. No. 1,366,352; Jan. 25; v. 282; p. 573.
- Cranes, Compensating truck for. F. L. Sabin. No. 1,368,356; Feb. 15; v. 283; p. 393.
- Cranes, Means for braking. H. E. Scott. No. 1,396,532; Nov. 8.
- Crank-assembly. J. L. Beil. No. 1,366,351; Jan. 25; v. 282; p. 573.
- Crank, Automatic safety-. E. Dobson. No. 1,370,791; Mar. 8; v. 284; p. 243.
- Crank, Automobile starting-. G. E. and E. W. Fritz. No. 1,364,270; Jan. 4; v. 282; p. 44.
- Crank-case repair-arm. W. F. Hudson. No. 1,371,622; Mar. 15; v. 284; p. 466.
- Crank for motors, Starting-. F. F. Redding. No. 1,374,114; Apr. 5; v. 285; p. 143.
- Crank, Hand-. F. A. Ross. No. 1,399,445; Dec. 6.
- Crank-handle. R. C. Olson. No. 1,383,994; July 5; v. 288; p. 153.
- Crank-pin-turning tool. A. Weber. No. 1,389,541; Aug. 30; v. 289; p. 945.
- Crank, Safety-. C. Green. No. 1,383,101; June 28; v. 287; p. 693.
- Crank-shaft. G. W. Harper. No. 1,368,627; Feb. 15; v. 283; p. 446.
- Crank-shaft. J. W. Hudson. No. 1,395,113; Oct. 25.
- Crank-shaft. E. Scofield. No. 1,399,806; Dec. 13.
- Crank-shaft and differential gear, Combined. S. D. Alley and A. Thompson. No. 1,381,781; June 14; v. 287; p. 329.
- Crank-shaft attachment. W. W. Yarbrough. No. 1,390,417; Sept. 13; v. 290; p. 263.
- Crank-shaft balance. M. R. Schaffer. No. 1,383,488; July 5; v. 288; p. 48.
- Crank-shaft-dressing machine. J. H. Sutter. No. 1,397,152; Nov. 15.
- Crank-shaft holder. A. G. Johnson. No. 1,383,634; July 5; v. 288; p. 78.
- Crank-shaft-lapping tool. E. R. Elliott. No. 1,375,284; Apr. 19; v. 285; p. 472.
- Crank-shaft-straightening machine. C. L. Patterson. No. 1,369,904; Mar. 1; v. 284; p. 29.
- Crank-shaft, Variable-throw. G. D. Angle. No. 1,385,768; July 26; v. 288; p. 725.
- Cranking device, Motor-. W. B. Smith. No. 1,375,940; Apr. 26; v. 285; p. 629.
- Crate. J. Hughes. No. 1,388,569; Aug. 23; v. 289; p. 697.
- Crate. M. R. Moffitt. No. 1,387,554; Aug. 16; v. 289; p. 440.
- Crate. C. A. Stewart. No. 1,373,271; Mar. 29; v. 284; p. 884.
- Crate and table, Combined shipping-. R. I. Schonitzer. No. 1,390,728; Sept. 13; v. 290; p. 326.
- Crate, Banana-. A. Lombardo. No. 1,385,015; July 19; v. 288; p. 495.
- Crate, Bottle-. A. L. Foreman. No. 1,368,221; Feb. 8; v. 283; p. 319.
- Crate, Bottle-. J. M. Gayner. No. 1,379,010; May 24; v. 286; p. 685.
- Crate, Bottle or other receptacle receiving. M. W. Quirk. No. 1,368,290; Feb. 15; v. 283; p. 380.
- Crate, box, and the like, Collapsible. J. Ellis. No. 1,374,993; Apr. 19; v. 285; p. 415.
- Crate, Breeding-. G. H. Stultz. No. 1,373,921; Apr. 5; v. 285; p. 106.
- Crate, Collapsible. F. P. Bush, F. G. Gerr, and H. L. Powell. No. 1,380,349; June 7; v. 287; p. 5.
- Crate, Collapsible. M. King. No. 1,378,797; May 17; v. 286; p. 572.
- Crate, Collapsible. L. E. Larson. No. 1,384,616; July 12; v. 288; p. 331.
- Crate, Collapsible. E. L. Rupracht. No. 1,384,922; July 19; v. 288; p. 475.
- Crate, Collapsible. F. W. Steffes. No. 1,371,581; Mar. 15; v. 284; p. 458.
- Crate, Collapsible shipping-. F. J. Dultmeier. No. 1,382,178; June 21; v. 287; p. 462.
- Crate, Collapsible stock-. B. T. Weeks. No. 1,369,068; Feb. 22; v. 283; p. 571.
- Crate, Folding. H. R. De Laye. No. 1,369,402; Feb. 22; v. 283; p. 635.
- Crate, Folding shipping-. W. J. Donnelly. No. 1,382,488; June 21; v. 287; p. 522.
- Crate for poultry and other products, Folding. C. L. Leonard. No. 1,389,199; Aug. 30; v. 289; p. 877.
- Crate, Knockdown. A. J. Cole. No. 1,368,606; Feb. 15; v. 283; p. 442.
- Crate, Knockdown hog-. W. E. Bute. No. 1,381,892; June 14; v. 287; p. 350.
- Crate-making machine. O. M. Babcock. No. 1,371,595; Mar. 15; v. 284; p. 461.
- Crate or packing-case, Collapsible. N. J. McLeod and C. F. Rainsford. No. 1,378,614; May 17; v. 286; p. 536.
- Crate or packing-case, Collapsible. C. F. Rainsford. No. 1,381,013; June 7; v. 287; p. 133.
- Crate, Poultry-. W. Tucker. No. 1,389,170; Aug. 30; v. 289; p. 871.
- Crate, Shipping-. L. H. Hockspeer. No. 1,381,193; June 14; v. 287; p. 218.
- Crate, Shipping-. M. F. A. O'Toole. No. 1,383,561; July 5; v. 288; p. 62.
- Crate, Steaming-. J. Judge. No. 1,390,911; Sept. 13; v. 290; p. 364.
- Crates, &c., Closure device for egg-. W. H. Brandt. No. 1,401,236; Dec. 27.
- Crayon-box. E. O. Lundin. No. 1,366,399; Jan. 25; v. 282; p. 583.
- Crayon-holder. P. M. Biondo. No. 1,377,182; May 10; v. 286; p. 209.
- Crayon, Magazine-. F. E. Small. No. 1,393,251; Oct. 11.
- Cream-can. M. Popeika. No. 1,372,827; Mar. 29; v. 284; p. 795.
- Cream depilatory. J. Donner. No. 1,379,855; May 31; v. 286; p. 918.
- Cream-extractor. F. Wommer. No. 1,377,650; May 10; v. 286; p. 299.
- Cream-sampler. J. A. Holcomb. No. 1,381,557; June 14; v. 287; p. 286.
- Cream-separator. T. W. and M. L. Bibb. No. 1,369,607; Feb. 22; v. 283; p. 676.
- Cream-separator. W. G. Coote. No. 1,379,532; May 24; v. 286; p. 783.
- Cream-separator. W. N. Opt. No. 1,400,973; Dec. 20.
- Cream-whip composition. A. W. Bull. No. 1,378,762; May 17; v. 286; p. 565.
- Crease-retaining device, Hat-crown-. F. J. Schalow. No. 1,387,015; Aug. 9; v. 289; p. 281.
- Credit-slip-authorizing apparatus. H. G. Dorsey and A. C. Kirshner. No. 1,372,804; Mar. 29; v. 284; p. 791.
- Credit-slip-authorizing apparatus. A. C. Kirshner. No. 1,385,788; July 26; v. 288; p. 729.
- Creel-frame. J. M. De Vito. No. 1,386,556; Aug. 2; v. 289; p. 115.
- Creels for use in warping or beaming, Tension device or yarn-cleaner for. G. Kershaw. No. 1,397,286; Nov. 15.
- Crematory-urn. L. F. Moore. No. 1,373,014; Mar. 29; v. 284; p. 833.
- Crib. R. P. Whiton. No. 1,387,336; Aug. 9; v. 289; p. 345.
- Crib and bed construction, Combined. C. H. Boardman. No. 1,378,518; May 17; v. 286; p. 517.
- Crib and bin ventilator. J. D. Overholt. No. 1,369,537; Feb. 22; v. 283; p. 662.
- Crib and cradle, Combination baby. G. W. Stulck. No. 1,372,105; Mar. 22; v. 284; p. 614.
- Crib and wardrobe, Combined. F. W. Musselman. No. 1,391,566; Sept. 20; v. 290; p. 559.
- Crib, Child's. R. M. and H. R. Willis. No. 1,387,089; Aug. 9; v. 289; p. 296.
- Crib, Folding. B. H. Kennedy. No. 1,373,821; Apr. 5; v. 285; p. 86.
- Crib, Folding. J. W. Kennedy. No. 1,394,625; Oct. 25.
- Crib, Folding. H. C. McCord. No. 1,390,630; Sept. 13; v. 290; p. 308.
- Crib-lock. M. F. Bayer. No. 1,371,597; Mar. 15; v. 284; p. 461.
- Crib or bed. B. A. Doty. No. 1,371,607; Mar. 15; v. 284; p. 463.
- Crib, Sliding-side. W. B. Foster. No. 1,376,328; Apr. 26; v. 285; p. 704.
- Crochet-ball holder. L. M. Larson. No. 1,386,515; Aug. 2; v. 289; p. 107.
- Crochet-ball holder. W. Lehmann. No. 1,386,121; Aug. 2; v. 289; p. 32.
- Cross-cutting and ripping logs, Mechanism for. P. B. Giles. No. 1,370,887; Mar. 8; v. 284; p. 260.
- Cross-head, Adjustable. J. F. Elscheid. No. 1,371,745; Mar. 15; v. 284; p. 489.
- Crosscut-saw gage. W. E. Gibbs. No. 1,373,719; Apr. 5; v. 285; p. 65.
- Crosscut-saws, Handle for. P. C. Abbott. No. 1,392,898; Oct. 11.
- Crosshead. R. D. Regan. No. 1,386,532; Aug. 2; v. 289; p. 111.
- Crosshead pitman connection. A. Ziska, Jr. No. 1,397,308; Nov. 15.
- Crossing-gate. C. H. Tillet and T. A. Allan. No. 1,384,544; July 12; v. 288; p. 316.
- Crossing-gate. S. J. Tsenes. No. 1,388,674; Aug. 23; v. 289; p. 717.
- Crossing-signal. T. W. Varley and W. C. Nein. No. 1,390,068; Sept. 6; v. 290; p. 103.
- Crossings, Highway for grade-. K. W. Carter. No. 1,391,995; Sept. 27; v. 290; p. 720.
- Crossover. J. B. Strong. No. 1,382,869; June 28; v. 287; p. 648.
- Crosstie. W. F. Palmer. No. 1,388,751; Aug. 23; v. 289; p. 733.
- Crown-openers, Making. E. Walker. No. 1,385,976; July 26; v. 288; p. 765.
- Crowns, Manufacturing porcelain jacket-. C. Nishi. No. 1,372,772; Mar. 29; v. 284; p. 784.
- Crowning-machine. T. J. Kula. No. 1,401,912; Dec. 27.
- Cruible and manufacture. W. A. Darran. No. 1,381,171; June 14; v. 287; p. 215.
- Cruible-furnace. J. H. L. de Bats. No. 1,372,676; Mar. 29; v. 284; p. 765.
- Cruible-furnace. M. Mathy. No. 1,400,759; Dec. 20.
- Cruible, melting-pot, and the like, Electrically-heated. C. W. Speirs. No. 1,366,135; Jan. 18; v. 282; p. 487.



- Crucibles, Making clay and graphite. J. H. L. De Bats. No. 1,374,910; Apr. 19; v. 285; p. 399.
- Crucibles, Making graphite. J. H. L. De Bats. No. 1,374,909; Apr. 19; v. 285; p. 399.
- Crucibles, Process and apparatus for drying. L. Vergniaud. No. 1,373,688; Apr. 5; v. 285; p. 60.
- Crucibles, Process and apparatus for the manufacture of. L. Vergniaud. No. 1,392,541; Oct. 4.
- Crude-oil burner. W. W. Holmes. No. 1,381,835; June 14; v. 287; p. 338.
- Crude-oil engine. S. B. Gold. No. 1,371,024; Mar. 8; v. 284; p. 286.
- Crullers, Apparatus for and process of making. L. Mitchell. No. 1,382,926; June 28; v. 287; p. 659.
- Crusher: *See*—
- Rock-crusher. Tobacco-leaf crusher.
- Stone-crusher. Vibrating-jaw crusher.
- Crusher. C. G. Buchanan. No. 1,386,764; Aug. 9; v. 289; p. 230.
- Crusher. R. E. Trottier. No. 1,364,531; Jan. 4; v. 282; p. 94.
- Crusher. C. A. Wendell. No. 1,366,985; Feb. 1; v. 283; p. 20.
- Crusher and pulverizer. M. F. Williams. No. 1,397,828; Nov. 22.
- Crusher and stoker, Combined. E. G. Graves and O. K. Wells. No. 1,369,237; Feb. 22; v. 283; p. 604.
- Crusher-roll. C. G. Buchanan. No. 1,390,019; Sept. 6; v. 290; p. 93.
- Crushers, Driving mechanism for. J. E. Kennedy. No. 1,385,687; July 26; v. 288; p. 708.
- Crushing. G. Johnston. No. 1,396,712; Nov. 8.
- Crushing-machines, Fastening means for the head of gyratory. W. S. Weston. No. 1,383,359; July 5; v. 288; p. 21.
- Crushing-mill. T. J. Sturtevant. No. 1,390,839; Sept. 13; v. 290; p. 349.
- Crushing-mill of the roller and ring type. C. M. Conder and G. T. Vivian. No. 1,374,823; Apr. 12; v. 285; p. 320.
- Crushing-mills, Hydraulic apparatus for. L. E. Lortz. No. 1,383,473; July 5; v. 288; p. 45.
- Crushing-roll machine. T. J. Sturtevant. No. 1,381,362; June 14; v. 287; p. 249.
- Crutch. E. C. Beecroft. No. 1,401,305; Dec. 27.
- Crutch. C. A. Sherman. No. 1,383,156; June 28; v. 287; p. 703.
- Crutch applicable also for use as a walking-stick or elbow-crutch. A. E. Warry. No. 1,400,394; Dec. 13.
- Crutch, Rolling. M. Scott. No. 1,394,224; Oct. 18.
- Crutch-tip. F. A. Uchytel. No. 1,369,580; Feb. 22; v. 283; p. 670.
- Crutches, Adjustable hand-grip for. J. B. Glowacki. No. 1,400,600; Dec. 20.
- Cryptography. H. C. Gauss. No. 1,379,551; May 24; v. 286; p. 787.
- Crystallization of a melted mass of crystals, Preventing. G. E. Ferguson. No. 1,385,075; July 19; v. 288; p. 507.
- Crystals containing foreign materials of a different specific gravity therefrom, Purification of. A. A. Backhaus. No. 1,397,121; Nov. 15.
- Cucumber-picker. F. W. Pringle. No. 1,371,437; Mar. 15; v. 284; p. 430.
- Cue-straightener. D. M. Cua. No. 1,376,678; May 3; v. 286; p. 56.
- Cue-tip. N. E. Bensinger. No. 1,390,331; Sept. 13; v. 290; p. 246.
- Cue-tip. M. M. Yaridich. No. 1,367,850; Feb. 8; v. 283; p. 249.
- Cue-tip clamp. S. Wojcik. No. 1,381,385; June 14; v. 287; p. 254.
- Cue-tip clamp. S. Wojcik. No. 1,381,386; June 14; v. 287; p. 254.
- Cue-tip holder. H. J. Grenier. No. 1,376,331; Apr. 26; v. 285; p. 704.
- Cues, Machine for repairing. H. O. Taylor. No. 1,395,236; Oct. 25.
- Cuff. H. M. Lederer. No. 1,387,854; Aug. 16; v. 289; p. 500.
- Cuff-button safety-clip. J. H. Doak. No. 1,367,687; Feb. 8; v. 283; p. 216.
- Cuff, Detachable. F. V. Brach. No. 1,391,094; Sept. 20; v. 290; p. 463.
- Cuff-holder. E. R. Roehm. No. 1,379,288; May 24; v. 286; p. 737.
- Cuff-link. G. J. Bradbury. No. 1,370,779; Mar. 8; v. 284; p. 240.
- Cuff-link. R. Brettner. No. 1,376,075; Apr. 26; v. 285; p. 665.
- Cuff-link. J. D. Fontaine. No. 1,375,581; Apr. 19; v. 285; p. 528.
- Cuff-link. S. B. Kahn. No. 1,369,926; Mar. 1; v. 284; p. 33.
- Cuff-link. V. B. Rogers. No. 1,387,557; Aug. 16; v. 289; p. 440.
- Cuff, Reversible. J. J. Long. No. 1,396,643; Nov. 8.
- Cuff, Shirt. G. Newman. No. 1,391,205; Sept. 20; v. 290; p. 486.
- Culinary apparatus. D. G. Bender. No. 1,397,852; Nov. 22.
- Culinary heater. A. D. Theobald. No. 1,372,375; Mar. 22; v. 284; p. 666.
- Culinary implement. C. H. Carter. No. 1,378,522; May 17; v. 286; p. 518.
- Culinary implement. H. M. Greener. No. 1,386,704; Aug. 9; v. 289; p. 218.
- Culinary implement. H. M. Greener. No. 1,397,512; Nov. 22.
- Culinary implement. F. M. Locher. No. 1,376,346; Apr. 26; v. 285; p. 706.
- Culinary implement. W. H. Palmer. No. 1,374,096; Apr. 5; v. 285; p. 139.
- Culinary implement. F. Schmitz. No. 1,382,677; June 28; v. 287; p. 612.
- Culinary implement. A. D. Workman. No. 1,388,083; Aug. 16; v. 289; p. 544.
- Culinary product. C. Ellis. No. 1,372,614; Mar. 22; v. 284; p. 712.
- Culinary utensil. E. D. Brown. No. 1,386,311; Aug. 2; v. 289; p. 69.
- Culinary utensil, Electrically-heated. W. D. Huff. No. 1,368,152; Feb. 8; v. 283; p. 305.
- Culling-machine. C. W. Johnson. No. 1,392,505; Oct. 4.
- Cultivator. E. V. Allen. No. 1,378,165; May 17; v. 286; p. 451.
- Cultivator. C. J. Allen, J. M. Howard, and D. R. Richie. No. 1,394,522; Oct. 25.
- Cultivator. C. Bevil. No. 1,381,393; June 14; v. 287; p. 255.
- Cultivator. J. W. Bidwell. No. 1,368,385; Feb. 15; v. 283; p. 399.
- Cultivator. A. C. Byrum. No. 1,367,536; Feb. 8; v. 283; p. 188.
- Cultivator. S. K. Dennis. No. 1,382,764; June 28; v. 287; p. 628.
- Cultivator. S. K. Dennis. No. 1,397,945; Nov. 22.
- Cultivator. J. M. Fleming. No. 1,399,202; Dec. 6.
- Cultivator. G. T. Goodwin. No. 1,382,422; June 21; v. 287; p. 509.
- Cultivator. L. H. Kaupke. No. 1,387,405; Aug. 9; v. 289; p. 358.
- Cultivator. E. H. Lamiell. No. 1,376,344; Apr. 26; v. 285; p. 706.
- Cultivator. J. Mader. No. 1,380,918; June 7; v. 287; p. 114.
- Cultivator. C. S. McCarthy, Jr. No. 1,399,021; Dec. 6.
- Cultivator. E. W. Owens. No. 1,369,981; Mar. 1; v. 283; p. 43.
- Cultivator. D. W. Schmitt. No. 1,397,333; Nov. 15.
- Cultivator. O. O. Uhlhorn. No. 1,380,505; June 7; v. 287; p. 34.
- Cultivator. L. E. Waterman. No. 1,391,027; Sept. 20; v. 290; p. 449.
- Cultivator. H. C. Williams. No. 1,401,297; Dec. 27.
- Cultivator. D. K. Wilson. No. 1,393,061; Oct. 11.
- Cultivator and weed-cutter. F. H. Paloheimo. No. 1,371,706; Mar. 15; v. 284; p. 482.
- Cultivator attachment. J. F. Butt. No. 1,367,767; Feb. 8; v. 283; p. 232.
- Cultivator attachment. O. E. Fuller. No. 1,369,970; Mar. 1; v. 283; p. 41.
- Cultivator attachment. E. E. Liles. No. 1,401,802; Dec. 27.
- Cultivator attachment. C. F. Showalter. No. 1,385,193; July 19; v. 288; p. 532.
- Cultivator attachment. B. E. Sims. No. 1,394,367; Oct. 18.
- Cultivator attachment. E. E. Turner. No. 1,367,334; Feb. 1; v. 283; p. 90.
- Cultivator, Cotton-. J. S. Barnett. No. 1,378,513; May 17; v. 286; p. 517.
- Cultivator-fender. A. E. Calk. No. 1,377,183; May 10; v. 286; p. 209.
- Cultivator, Hand-. W. L. Barrett. No. 1,370,180; Mar. 1; v. 284; p. 80.
- Cultivator-hoe. J. E. Cummings. No. 1,396,733; Nov. 15.
- Cultivator, Lister-. L. Jackson. No. 1,382,364; June 21; v. 287; p. 498.
- Cultivator mechanism. W. N. Springer. No. 1,384,411; July 12; v. 288; p. 288.
- Cultivator, Power-. M. Luger. No. 1,387,279; Aug. 9; v. 289; p. 332.
- Cultivator, Rotary. J. S. Clarke. No. 1,383,528; July 5; v. 288; p. 55.
- Cultivator, Rotary. A. V. Pettman. No. 1,371,571; Mar. 15; v. 284; p. 457.
- Cultivator, Soil-. R. A. Rutherford. No. 1,377,602; May 10; v. 286; p. 289.
- Cultivator, Straddle-row. S. K. Dennis. No. 1,388,934; Aug. 30; v. 289; p. 824.
- Cultivator, Tractor-. R. A. Keese. No. 1,383,637; July 5; v. 288; p. 78.
- Cultivator, Tractor-. R. C. Shelton. No. 1,395,210; Oct. 25.
- Cultivator, Wheel-. C. S. Norcross. No. 1,368,744; Feb. 15; v. 283; p. 469.
- Cultivators, Combined planter and fender for. R. F. Stieper. No. 1,379,842; May 31; v. 286; p. 915.
- Cultivators, Fertilizer-feeder for. O. Henthorn. No. 1,387,265; Aug. 9; v. 289; p. 329.
- Cultivators, Replanting attachment for. H. McKeig. No. 1,367,916; Feb. 8; v. 283; p. 260.
- Cultivators, Sprayer attachment for. T. F. Thompson. No. 1,393,850; Oct. 18.
- Cultivators, Steering mechanism for. D. K. Wilson. No. 1,393,869; Oct. 18.



*Alphabetical list of inventions—Continued.*

- Culvert, Metal. L. R. Shallenberger. No. 1,381,244; June 14; v. 287; p. 228.
- Culverts, Joints for metal. G. A. Belding. No. 1,395,253; Nov. 1.
- Cup: *See*—
- Automatic oil-cup. Lubricating-cup.
- Caster-cup. Oil-cup.
- Chalk-cup. Paper drinking-cup.
- Corrugated dry - battery cup. Priming-cup.
- Drinking-cup. Sanitary cup.
- Grease-cup. Shaving-cup.
- Lather-cup. Teat-cup.
- Locomotive grease-cup. Umbrella-draining cup.
- Cup. R. Jennings. No. 1,380,481; June 7; v. 287; p. 30.
- Cup and spoon holder for cooking utensils. M. A. Owen. No. 1,385,580; July 26; v. 288; p. 686.
- Cup, Grease-. H. C. Kestel. No. 1,364,284; Jan. 4; v. 282; p. 47.
- Cup holder, Sputum-. H. Henry. No. 1,364,870; Jan. 4; v. 282; p. 62.
- Cup, Shaving-. S. Dorey. No. 1,396,561; Nov. 8.
- Cup-washer expander. J. G. Sabo. No. 1,389,222; Aug. 30; v. 289; p. 881.
- Cups, Cap for grease-. G. Lowther. No. 1,382,299; June 21; v. 287; p. 485.
- Cups, Machine for making paper. L. W. Luellen and E. G. Wessman. No. 1,365,517; Jan. 11; v. 282; p. 327.
- Cupping device. T. H. Springer. No. 1,364,148; Jan. 4; v. 282; p. 19.
- Curb and gutter finishing tool, Combined. G. E. Noble. No. 1,401,487; Dec. 27.
- Curing alfalfa and the like, Method and apparatus for. W. A. Gilchrist and B. D. Jeffs. No. 1,368,184; Feb. 8; v. 283; p. 302.
- Curing apparatus. E. Pemberton. No. 1,370,222; Mar. 1; v. 284; p. 88.
- Curler. K. McClaire. No. 1,397,532; Nov. 22.
- Curling-iron. T. L. Dennis. No. 1,388,805; Aug. 23; v. 289; p. 744.
- Curling-iron heater. S. Millam. No. 1,385,465; July 26; v. 288; p. 663.
- Curling-irons, Comb attachment to. F. F. Forshee. No. 1,376,416; May 3; v. 286; p. 7.
- Currency. W. H. Gentner. No. 1,394,081; Oct. 18.
- Current apparatus, Protecting device for multiphase alternating-. J. R. Beard. No. 1,398,620; Nov. 29.
- Current-collecting device. C. B. Mills. No. 1,378,049; May 17; v. 286; p. 429.
- Current-collector. J. F. Montine. No. 1,370,143; Mar. 1; v. 284; p. 73.
- Current-collector. I. D. Shipper. No. 1,398,800; Nov. 29.
- Current-collector rings, Making. C. B. Mills. No. 1,393,564; Oct. 11.
- Current commutator-motor, Single-phase alternating-. G. H. Garcelon and C. A. M. Weber. No. 1,400,047; Dec. 13.
- Current-density indicator. E. Heil. No. 1,374,918; Apr. 19; v. 285; p. 401.
- Current-distributor. S. D. Work, Jr. No. 1,386,980; Aug. 9; v. 289; p. 274.
- Current-distributing nets against temporary interruptions, System for protecting electric-. M. Hochstadter. No. 1,396,112; Nov. 8.
- Current distribution system, Constant-. P. C. Hewitt. No. 1,393,019; Oct. 11.
- Current-generating plant. O. P. Fritchle. No. 1,391,377; Sept. 20; v. 290; p. 520.
- Current generators, Means for eliminating distorted harmonics from alternating-. L. W. Chubb. No. 1,376,400; May 3; v. 286; p. 5.
- Current into alternating current, System of transferring direct. M. Schenkel. No. 1,390,727; Sept. 13; v. 290; p. 326.
- Current-limit relay. R. E. De Camp. No. 1,392,249; Sept. 27; v. 290; p. 770.
- Current magnet, Alternating-. C. H. Rippl. No. 1,370,914; Mar. 8; v. 284; p. 265.
- Current-motor. W. J. Antley. No. 1,374,801; Apr. 12; v. 285; p. 316.
- Current-motor. E. Antz. No. 1,371,836; Mar. 15; v. 284; p. 507.
- Current-motor. W. J. McGavock. No. 1,400,965; Dec. 20.
- Current-motor. J. J. Rebman. No. 1,368,454; Feb. 15; v. 283; p. 412.
- Current-motor. H. A. J. Thiesen. No. 1,365,871; Jan. 18; v. 282; p. 437.
- Current motor and generator, Alternating. J. Burke. No. 1,367,298; Feb. 1; v. 283; p. 82.
- Current motors, Brush-shifting device for alternating-. W. C. Korthals-Altes. No. 1,376,020; Apr. 26; v. 285; p. 644.
- Current or tide motor. G. P. A. Weisanborn. No. 1,396,609; Nov. 8.
- Current rectifier, Alternating-. C. J. Quill. Nos. 1,395,520-1; Nov. 1.
- Current-regulator. F. L. Re Qua. No. 1,390,543; Sept. 13; v. 290; p. 289.
- Current-regulator. C. F. Smith. No. 1,367,631; Feb. 8; v. 283; p. 205.
- Current-saving device. W. J. Hahn. No. 1,377,476; May 10; v. 286; p. 267.
- Current system, High-voltage direct-. R. E. Hellmund. No. 1,396,839; Nov. 15.
- Current, Process of and apparatus for producing radio-frequency-. L. F. Fuller. No. 1,381,626; June 14; v. 287; p. 298.
- Current transformer, Constant-. L. Arnold. No. 1,390,074; Sept. 6; v. 290; p. 104.
- Current transformer, Direct-. A. F. Nesbit. No. 1,371,994; Mar. 15; v. 284; p. 537.
- Current vibratory motor, Direct-. L. R. McDonald. No. 1,396,336; Nov. 8.
- Current welding system, Alternating-. O. H. Eschholz. No. 1,365,311; Jan. 11; v. 282; p. 288.
- Currents, Apparatus for the production of alternating. J. L. Milton. No. 1,366,475; Jan. 25; v. 282; p. 598.
- Currents, Limiter for alternating. S. Salto. No. 1,372,091; Mar. 22; v. 284; p. 612.
- Currents, Means for and method of measuring weak. H. S. Osborne and W. H. Martin. No. 1,366,414; Jan. 25; v. 282; p. 586.
- Currents, Means for amplifying. L. de Forest. No. 1,375,447; Apr. 19; v. 285; p. 503.
- Currents, Method and apparatus for amplification of small. C. W. Rice. No. 1,401,644; Dec. 27.
- Currents, Method of and means for producing alternating. J. H. Payne, Jr. No. 1,400,235; Dec. 13.
- Currents, Regulator for alternating. E. R. Stoeckle. No. 1,376,978; May 3; v. 286; p. 114.
- Currents, Vapor-rectifier for high-potential. G. W. Helmerod. No. 1,366,452; Jan. 25; v. 282; p. 594.
- Curry-comb, Self-cleaning. C. W. Pitlick. No. 1,381,007; June 7; v. 287; p. 131.
- Currycomb and brush, Combined. J. Butterfield. No. 1,401,134; Dec. 27.
- Curtain-adjuster. E. M. Menzl. No. 1,368,821; Feb. 15; v. 283; p. 484.
- Curtain and shade bracket. O. Weresiuk. No. 1,381,606; June 14; v. 287; p. 295.
- Curtain and shade fixture. F. C. Palosky and S. Zimmermann. No. 1,384,273; July 12; v. 288; p. 260.
- Curtain and shade holder. M. Panzner. No. 1,385,267; July 19; v. 288; p. 546.
- Curtain and shade holder. J. Wlecek. No. 1,370,868; Mar. 8; v. 284; p. 257.
- Curtain and shade holding device. S. Zyskowski. No. 1,371,014; Mar. 8; v. 284; p. 280.
- Curtain bracket, Adjustable window-. E. C. Rosencranz. No. 1,392,602; Oct. 4.
- Curtain-carrier. L. G. S. Slocum. No. 1,364,458; Jan. 4; v. 282; p. 80.
- Curtain, Electric metallic window-. C. R. Maxwell. No. 1,374,670; Apr. 12; v. 285; p. 291.
- Curtain-fixture. S. C. Hills. No. 1,376,541; May 3; v. 286; p. 30.
- Curtain-fixture. F. J. Kennedy and H. Schelding. No. 1,373,333; Mar. 29; v. 284; p. 896.
- Curtain-fixture. M. Lewin. No. 1,386,715; Aug. 9; v. 289; p. 220.
- Curtain-fixture. F. M. Lokometzki. No. 1,368,174; Feb. 8; v. 283; p. 309.
- Curtain-fixture. A. Niedziela. No. 1,383,142; June 28; v. 287; p. 700.
- Curtain-fixture. F. A. Reardon. No. 1,395,297; Nov. 1.
- Curtain-fixtures, Bracket for. S. C. Hills. No. 1,376,542; May 3; v. 286; p. 31.
- Curtain-hanger. J. F. Bruederly. No. 1,369,615; Feb. 22; v. 283; p. 677.
- Curtain-holder. A. M. Freeman. No. 1,381,817; June 14; v. 287; p. 335.
- Curtain-holder. L. B. Garabrant. No. 1,377,066; May 3; v. 286; p. 131.
- Curtain-light. R. E. Tupper. (Reissue.) No. 15,173; Aug. 2; v. 289; p. 123.
- Curtain, Metallic. A. Motteau. No. 1,374,514; Apr. 12; v. 285; p. 261.
- Curtain, Metallic. A. Parodi and J. Borello. No. 1,385,023; July 19; v. 288; p. 496.
- Curtain-pole. P. Pimlott. No. 1,401,727; Dec. 27.
- Curtain-pole and shade-roller bracket. E. L. Thompson. No. 1,376,483; May 3; v. 286; p. 20.
- Curtain-pole and shade-roller, Quick-attaching. F. Vasger. No. 1,370,862; Mar. 8; v. 284; p. 256.
- Curtain-pole bracket. H. A. Tonguett. No. 1,375,617; Apr. 19; v. 285; p. 535.
- Curtain-pole support. S. W. Stack. No. 1,380,848; June 7; v. 287; p. 100.
- Curtain-poles, Bracket for. H. H. Nelson. No. 1,374,026; Apr. 5; v. 285; p. 126.
- Curtain, Porch-. W. F. Smith, Jr. No. 1,371,524; Mar. 15; v. 284; p. 447.
- Curtain-rod. J. B. Akers. No. 1,398,411; Nov. 29.
- Curtain-rod. J. H. Boye. No. 1,365,300; Jan. 11; v. 282; p. 286.
- Curtain-rod. A. Hartmeyer. No. 1,374,563; Apr. 12; v. 285; p. 270.
- Curtain-rod. M. M. Welsh. No. 1,399,678; Dec. 6.
- Curtain-rod and shade-roller support. J. Benyel. No. 1,373,401; Apr. 5; v. 285; p. 4.



- Curtain-rod bracket. M. D. Coady. No. 1,400,726; Dec. 20.  
Curtain-rod holder. T. F. Byron. No. 1,377,666; May 10; v. 286; p. 302.  
Curtain-rod hood. A. E. Grady. No. 1,382,973; June 28; v. 287; p. 668.  
Curtain roller and bracket. F. J. Hart. No. 1,378,347; May 17; v. 286; p. 484.  
Curtain-roller-operating device. C. J. Hogan. No. 1,382,192; June 21; v. 287; p. 464.  
Curtain-shade circuit-closure. J. Havran. No. 1,392,641; Oct. 4.  
Curtain. Sheet-metal. E. Ohnstrand. No. 1,378,976; May 24; v. 286; p. 678.  
Curtain-stretcher. J. Barry. No. 1,389,431; Aug. 30; v. 289; p. 923.  
Curtain-stretcher. F. M. Constable. No. 1,365,584; Jan. 11; v. 282; p. 341.  
Curtain-stretcher. W. R. Hager. No. 1,371,025; Mar. 8; v. 284; p. 287.  
Curtain-stretcher. D. R. Landis. No. 1,367,153; Feb. 1; v. 283; p. 54.  
Curtain-stretcher. A. P. McMahon. No. 1,397,533; Nov. 22.  
Curtain-stretcher. T. A. Proctor. No. 1,366,835; Jan. 25; v. 282; p. 670.  
Curtain-stretcher. C. E. Tracy. No. 1,388,078; Aug. 16; v. 289; p. 543.  
Curtain stretcher and drier. R. V. Lyon. (Reissue.) No. 15,086; Apr. 12; v. 285; p. 335.  
Curtain-stretcher, Sectionalized. J. M. Eakins. No. 1,377,764; May 10; v. 286; p. 321.  
Curtain-support. H. H. Dierkes. No. 1,393,672; Oct. 11.  
Curtain-support. K. Forbes. No. 1,390,113; Sept. 6; v. 290; p. 112.  
Curtain-support. G. W. Scott. No. 1,391,418; Sept. 20; v. 290; p. 529.  
Curtain-window. C. B. Peck. No. 1,380,245; May 31; v. 286; p. 991.  
Curtain-window. C. F. Preston. No. 1,401,360; Dec. 27.  
Curtains. Window-fastener for auto. F. B. Nihart. No. 1,382,666; June 28; v. 287; p. 610.  
Cushion. *See—*  
Die-cushion. Suspension air-cushion.  
Inner-tire cushion. Tire-cushion  
Cushion. J. Borland. No. 1,372,270; Mar. 22; v. 284; p. 647.  
Cushion-brake. F. Hymans. No. 1,399,560; Dec. 6.  
Cushion construction, Spring-. W. Babendererde. No. 1,382,594; June 21; v. 287; p. 542.  
Cushion construction, Spring-. E. S. Bills. No. 1,382,462; June 21; v. 287; p. 517.  
Cushion construction, Spring-. L. A. Suekoff. No. 1,397,021; Nov. 15.  
Cushion, Pneumatic. F. C. Ililkar. No. 1,382,831; June 28; v. 287; p. 641.  
Cushion units, Method of and apparatus for manufacturing. J. J. Morand. No. 1,369,695; Feb. 22; v. 283; p. 693.  
Cushion-wheel. C. J. Jackson. No. 1,381,996; June 21; v. 287; p. 429.  
Cushion-wheel. F. O. Meyers. No. 1,366,540; Jan. 25; v. 282; p. 612.  
Cushion-wheel. J. Mitrosky and J. Bogdan. No. 1,369,181; Feb. 22; v. 283; p. 592.  
Cushion-wheel. J. Nelson. No. 1,394,779; Oct. 25.  
Cushions construction, Automobile. F. C. Genge. No. 1,370,886; Mar. 8; v. 284; p. 260.  
Cushions, Device for attaching covers to. J. H. Langrock. No. 1,374,210; Apr. 12; v. 285; p. 202.  
Cushioned seat. M. C. Horine. No. 1,376,382; Apr. 26; v. 285; p. 713.  
Cushioned vehicle-wheel. J. E. Thebaud. No. 1,391,024; Sept. 20; v. 290; p. 449.  
Cushioned wheel. A. A. Mendenhall. No. 1,374,753; Apr. 12; v. 285; p. 307.  
Cushioning device. J. F. Dunn. No. 1,373,315; Mar. 29; v. 284; p. 893.  
Cuspidor. T. W. Johnson. No. 1,397,636; Nov. 22.  
Cuspidor. F. Lipar. No. 1,366,267; Jan. 18; v. 282; p. 514.  
Cuspidor. F. Seder. No. 1,398,118; Nov. 22.  
Cuspidor, Dental. O. H. and A. F. Pieper. No. 1,377,433; May 10; v. 286; p. 258.  
Cut-off, Automatic. W. H. La Baune. No. 1,370,455; Mar. 1; v. 284; p. 133.  
Cut-out. F. J. Medine. No. 1,394,207; Oct. 18.  
Cut-out apparatus, Automatic. J. K. Delano. No. 1,371,990; Mar. 15; v. 284; p. 537.  
Cut-out, Automatic. L. D. Croninger. No. 1,400,870; Dec. 20.  
Cut-out, Automatic. A. Fernandez. No. 1,372,495; Mar. 22; v. 284; p. 689.  
Cut-out, Exhaust. E. R. Draver. No. 1,396,410; Nov. 8.  
Cut-out or circuit-breaker, Electrical. W. H. Illingworth. No. 1,392,873; Oct. 4.  
Cut-out, Safety. H. F. Krantz. No. 1,399,489; Dec. 6.  
Cut-out switch. W. A. Heinrich. No. 1,394,087; Oct. 18.  
Cutlass, Rotary. A. I. Fusman. No. 1,369,736; Feb. 22; v. 283; p. 701.  
Cutter. *See—*  
Apricot-cutter.  
Automatic powder-cutter.  
Automatic tile-cutter.  
Automobile-seat cushion.  
Bagging-cutter.  
Band-cutter.  
Biscuit and doughnut cutter.  
Bread-cutter.  
Butter-cutter.  
Buttonhole-cutter.  
Cable-cutter.  
Cake-cutter.  
Can-cutter.  
Candy-cutter.  
Cheese-cutter.  
Cloth-cutter.  
Corn-cutter.  
Coupon-cutter.  
Doughnut-cutter.  
Ensilage-cutter.  
Feed-cutter.  
Forage-cutter.  
Fruit and vegetable cutter.  
Gear-cutter.  
Glass-cutter.  
Grass-cutter.  
Grinding-machine cutter.  
Hair-cutter.  
Hand twine-cutter.  
Cutter. J. H. Kress. No. 1,376,552; May 3; v. 286; p. 32.  
Cutter. L. Vercoutere. No. 1,369,581; Feb. 22; v. 283; p. 670.  
Cutter and crater. I. Todaro. No. 1,364,220; Jan. 4; v. 282; p. 34.  
Cutter and roller. J. V. Adams. No. 1,397,391; Nov. 15.  
Cutter and paint-remover, Rotary. H. Wimmer. No. 1,377,537; May 10; v. 286; p. 277.  
Cutter and scraper, Combined. C. Lindsey and E. C. Waddington. No. 1,365,927; Jan. 18; v. 282; p. 448.  
Cutter-chain mining-machine. M. S. Moore. No. 1,368,521; Feb. 15; v. 283; p. 426.  
Cutter-grinding machine. F. Müller. (Reissue.) No. 15,206; Oct. 11.  
Cutter-grinding machine. J. J. Thacher. No. 1,389,325; Aug. 30; v. 289; p. 902.  
Cutter-guard. M. L. Pinette. No. 1,375,013; Apr. 19; v. 285; p. 419.  
Cutter-head. L. S. Hall. No. 1,384,524; July 12; v. 288; p. 312.  
Cutter-head. L. T. Henneberry. No. 1,372,949; Mar. 29; v. 284; p. 821.  
Cutter-head. E. H. Hunt. No. 1,365,496; Jan. 11; v. 282; p. 323.  
Cutter-head. J. E. Sheuman. No. 1,368,459; Feb. 15; v. 283; p. 414.  
Cutter-head. C. P. Smith. No. 1,400,245; Dec. 13.  
Cutter-head. J. S. Stull. No. 1,380,686; June 7; v. 287; p. 69.  
Cutter-heads, Rotor for. G. L. Kraber. No. 1,396,762; Nov. 15.  
Cutter, Rotary. A. M. Simpson. No. 1,396,600; Nov. 8.  
Cutter, stay, Wire-. M. C. Wirth. No. 1,365,296; Jan. 11; v. 282; p. 285.  
Cutter-tip. J. L. Hiller. No. 1,380,146; May 31; v. 286; p. 973.  
Cutters, Knife for. H. S. Williams. No. 1,377,042; May 3; v. 286; p. 126.  
Cutters, Machine for and method of milling blanks for. F. Müller. No. 1,376,155; Apr. 26; v. 285; p. 670.  
Cutters, Making. C. D. Knowlton. No. 1,376,551; May 3; v. 286; p. 32.  
Cutters, Process and machine for forming. A. G. Schaad and H. Klencke. No. 1,399,525; Dec. 6.  
Cutters, Web-guide for rotary. H. M. Barber. No. 1,394,961; Oct. 25.  
Cutting and bunching device. W. H. Sikma. No. 1,382,022; June 21; v. 287; p. 434.  
Cutting and drilling instrument, Rotary. A. L. Soresi. No. 1,377,288; May 10; v. 286; p. 230.  
Cutting and finishing machine. R. J. Ellis. No. 1,372,679; Mar. 29; v. 284; p. 766.  
Cutting and printing at one operation, Machine for. A. L. J. Seebaas. No. 1,372,201; Mar. 22; v. 284; p. 633.  
Cutting and punching machine. C. J. Salviolo. No. 1,383,762; July 5; v. 288; p. 105.  
Cutting and punching machines, &c., Protective guard for the tools of. I. L. Miller. No. 1,387,553; Aug. 16; v. 289; p. 440.  
Cutting and stripping machine. J. Wegner. No. 1,384,984; July 19; v. 288; p. 488.  
Cutting and welding with fluid fuel, Machine for. J. Harris. No. 1,389,046; Aug. 30; v. 289; p. 846.  
Cutting and winding apparatus, Fabric. W. C. Tyler and A. H. Koza. No. 1,373,212; Mar. 29; v. 284; p. 873.  
Cutting bacon into thin slices, Machine for. F. Schermer. No. 1,384,732; July 12; v. 288; p. 355.  
Cutting-block. A. C. Denning. No. 1,399,937; Dec. 13.  
Cutting-block-surfacing machine. R. A. Maddox. No. 1,369,684; Feb. 22; v. 283; p. 691.  
Inside pipe-cutter.  
Insulation-cutter.  
Keyway-cutter.  
Lard and butter cutter.  
Lashing-cutter.  
Meat, vegetable, and pastry cutter.  
Metal-section cutter.  
Milling-cutter.  
Pie-cutter.  
Pipe-cutter.  
Plaster-of-Paris cutter.  
Potato-cutter.  
Saw-tooth cutter.  
Seed-potato cutter.  
Separable-tooth cutter.  
Slot-cutter.  
Sole-channeling cutter.  
Sorghum-cutter.  
String-cutter.  
Sugar-cane cutter.  
Surface milling-cutter.  
Thread-cutter.  
Tractor lawn-cutter.  
Twine-cutter.  
Vegetable-cutter.  
Vegetable and pastry cutter.  
Weed-cutter.  
Wire-cutter.



*Alphabetical list of inventions—Continued.*

- Cutting blooms, Machine for. B. F. Faunce. No. 1,372,127; Mar. 22; v. 284; p. 618.
- Cutting cords or strands, Mechanism for. H. H. C. Grondahl. No. 1,374,200; Apr. 12; v. 285; p. 200.
- Cutting device. A. Andres. No. 1,388,500; Aug. 23; v. 289; p. 685.
- Cutting device. H. H. Eaton. No. 1,371,357; Mar. 15; v. 284; p. 414.
- Cutting-die. W. B. Freeman. No. 1,390,117; Sept. 6; v. 290; p. 113.
- Cutting implement. D. Ruppert. No. 1,374,768; Apr. 12; v. 285; p. 309.
- Cutting-machine. J. W. Bishop. No. 1,378,935; May 24; v. 286; p. 671.
- Cutting-machine. W. J. Brennan. No. 1,388,845; Aug. 30; v. 289; p. 806.
- Cutting-machine. W. C. Bucknam. No. 1,365,021; Jan. 11; v. 282; p. 232.
- Cutting-machine. H. B. Greenough. No. 1,381,184; June 14; v. 287; p. 217.
- Cutting-machine. J. B. Hadaway. No. 1,376,537; May 3; v. 286; p. 30.
- Cutting-machine. J. B. Hadaway. No. 1,389,654; Sept. 6; v. 290; p. 19.
- Cutting-machine. J. M. Norton. No. 1,377,219; May 10; v. 286; p. 216.
- Cutting-machine. E. M. Waring. No. 1,384,107; July 12; v. 288; p. 225.
- Cutting machine and bob therefor, Tooth-. H. E. Sloan. No. 1,372,725; Mar. 29; v. 284; p. 774.
- Cutting machine, Asphalt-pavement-. F. L. Guillemet. No. 1,366,649; Jan. 25; v. 282; p. 633.
- Cutting machine, Candy-. G. K. Bainbridge. No. 1,368,685; Feb. 15; v. 283; p. 458.
- Cutting machine, Cork-. M. Marsa. No. 1,374,022; Apr. 5; v. 285; p. 125.
- Cutting machine, Shingle-. R. D. King. No. 1,394,911; Oct. 25.
- Cutting machine, Stock-. E. E. Winkley. No. 1,385,601; July 26; v. 288; p. 691.
- Cutting machine, Vegetable-. A. Stoltenberg. No. 1,369,202; Feb. 22; v. 283; p. 597.
- Cutting machine, Zigzag hide-. W. Kwash. No. 1,369,286; Feb. 22; v. 283; p. 613.
- Cutting machines, Chopper-head for cotton-. W. D. Rainey. No. 1,365,342; Jan. 11; v. 282; p. 293.
- Cutting-machines, Work-support for. H. H. Eaton. No. 1,387,695; Aug. 16; v. 289; p. 467.
- Cutting mechanism. R. Grimm and E. F. Rhode. No. 1,384,060; July 12; v. 288; p. 215.
- Cutting mechanism. C. A. Juengst. No. 1,394,309; Oct. 18.
- Cutting mechanism. C. F. Smith. No. 1,383,868; July 5; v. 288; p. 126.
- Cutting-off machine. L. B. Curtis. No. 1,386,163; Aug. 2; v. 289; p. 40.
- Cutting-off tool. R. A. Peacock. No. 1,374,226; Apr. 12; v. 285; p. 205.
- Cutting or slicing machine. T. X. Kuhn. No. 1,368,442; Feb. 15; v. 283; p. 410.
- Cutting plastic material, Method and apparatus for. R. Holmes and A. O. Abbott, Jr. No. 1,379,627; May 31; v. 286; p. 876.
- Cutting sheet material, Device for. W. L. Dorr. No. 1,376,747; May 3; v. 286; p. 69.
- Cutting system. J. Tarasoff. No. 1,397,302; Nov. 15.
- Cutting teeth, Machine for. C. E. Derr. No. 1,374,064; Apr. 5; v. 285; p. 133.
- Cutting-tool. M. L. Akers and A. D. Seibert. No. 1,371,660; Mar. 15; v. 284; p. 474.
- Cutting-tool. W. B. Bronander. No. 1,397,357; Nov. 15.
- Cutting-tool. A. R. Fors. No. 1,396,180; Nov. 8.
- Cutting-tool. G. H. Gilman. No. 1,382,777; June 28; v. 287; p. 631.
- Cutting-tool. F. Munger. No. 1,382,219; June 21; v. 287; p. 470.
- Cutting-tool. J. M. Yater. No. 1,375,342; Apr. 19; v. 285; p. 483.
- Cutting-tool and holder therefor. P. T. Lennon. No. 1,387,417; Aug. 9; v. 289; p. 361.
- Cutting-tool holder. L. F. Calhoun. No. 1,385,519; July 26; v. 288; p. 674.
- Cutting-tool pilots, Lock for. F. Wiard. No. 1,375,339; Apr. 19; v. 285; p. 482.
- Cutting-tools, Forming. S. A. Cogsdill. No. 1,379,853; May 31; v. 286; p. 917.
- Cyanamid from calcium cyanamid, Producing. J. H. Lidholm. No. 1,380,223; May 31; v. 286; p. 987.
- Cyanamid, Granulating. L. Barbé. No. 1,394,532; Oct. 25.
- Cyanamids, Production of. L. E. Friderich. No. 1,371,616; Mar. 15; v. 284; p. 465.
- Cyanid and ore solutions, Pump for pumping and agitating. J. F. Piercy. No. 1,376,574; May 3; v. 286; p. 37.
- Cyanid-furnace. R. M. Major. No. 1,387,286; Aug. 9; v. 289; p. 833.
- Cyanid process. A. W. Hahn. No. 1,397,684; Nov. 22.
- Cyanids, Making. O. L. Barnebey. No. 1,397,613; Nov. 22.
- Cyaniding precious-metal-bearing materials. J. C. Haun and A. Silver. No. 1,399,458; Dec. 6.
- Cyaniding process. L. D. Mills and T. B. Crowe. No. 1,387,289; Aug. 9; v. 289; p. 334.
- Cyanogen compounds, Recovering. E. V. Espenhahn. (Re-issue.) No. 15,090; Apr. 19; v. 285; p. 544.
- Cycle. J. T. Sentrop, Jr. No. 1,390,822; Sept. 13; v. 290; p. 345.
- Cycle and similar saddles, Dies for use in the manufacture of the tops of. J. and H. Jelley. No. 1,387,779; Aug. 16; v. 289; p. 485.
- Cycle and similar saddles, Top of. J. and H. Jelley. No. 1,376,547; May 3; v. 286; p. 32.
- Cycle construction. R. S. Heise. No. 1,385,129; July 19; v. 288; p. 519.
- Cycle engine, Two-. C. N. Packer. No. 1,389,156; Aug. 30; v. 289; p. 868.
- Cycle internal-combustion engine, Two-stroke-. L. V. Thomas and J. A. Guérin. No. 1,388,390; Aug. 23; v. 289; p. 663.
- Cycle stand and lock, Combined. E. Maurice. No. 1,385,020; July 19; v. 288; p. 496.
- Cycles, Fork for. W. Starley. No. 1,370,564; Mar. 8; v. 284; p. 199.
- Cycles, Side-car attachment for motor-. G. Stettler. No. 1,379,655; May 31; v. 286; p. 881.
- Cycles, Side-car attachment to motor-driven. J. Goulding. No. 1,372,418; Mar. 22; v. 284; p. 675.
- Cycloramic-scenery battens, Attachment for. R. C. Scheurer and F. G. Greenberg. No. 1,375,538; Apr. 19; v. 285; p. 520.
- Cylinder and piston construction. O. S. Pulliam. No. 1,379,041; May 24; v. 286; p. 690.
- Cylinder and rotary-sleeve-valve motor, Composite-. I. M. Davidson. No. 1,401,322; Dec. 27.
- Cylinder boring or reaming machine. G. M. Brubaker. No. 1,384,043; July 12; v. 288; p. 212.
- Cylinder-boring reamer. G. M. Brubaker. No. 1,400,021; Dec. 13.
- Cylinder, Commutator-. W. H. Kempton. No. 1,401,708; Dec. 27.
- Cylinder construction. J. O. Heinze. No. 1,399,058; Dec. 6.
- Cylinder construction, Jacketed-. B. R. Newcombe. No. 1,368,522; Feb. 15; v. 283; p. 426.
- Cylinder dobbie, Double-. H. Bardsley. No. 1,367,005; Feb. 1; v. 283; p. 24.
- Cylinder-filling machine. A. F. Westlund. No. 1,366,615; Jan. 25; v. 282; p. 627.
- Cylinder for wood-pulp and cellulose, Strainer. R. E. Wagner. No. 1,385,340; July 19; v. 288; p. 560.
- Cylinder-grinding machine. W. H. Johnson. No. 1,399,213; Dec. 6.
- Cylinder-head. W. Hefti. No. 1,374,079; Apr. 5; v. 285; p. 136.
- Cylinder-head and manufacturing same. R. E. Collins. No. 1,386,162; Aug. 2; v. 289; p. 40.
- Cylinder-head remover. F. E. Miller. No. 1,390,960; Sept. 13; v. 290; p. 374.
- Cylinder, Internal-combustion-engine. G. E. Bradshaw. No. 1,371,732; Mar. 15; v. 284; p. 487.
- Cylinder-lapping tool. W. A. Salter. No. 1,398,398; Nov. 29.
- Cylinder-lock. S. A. E. Larsen. No. 1,383,128; June 28; v. 287; p. 697.
- Cylinder-lock. S. Segal. No. 1,399,159; Dec. 6.
- Cylinder-reamer. N. Anderson. No. 1,395,245; Nov. 1.
- Cylinders and pistons, Treating. O. W. Gerleman. No. 1,398,775; Nov. 29.
- Cylinders, Apparatus for air-cooling. F. W. Peck. No. 1,389,780; Sept. 6; v. 290; p. 44.
- Cylinders, Apparatus for dressing engine-. W. K. Moore. No. 1,384,625; July 12; v. 288; p. 333.
- Cylinders, Apparatus for filling oxygen-. M. von Recklinghausen. No. 1,394,955; Oct. 25.
- Cylinders, Repairing scored. Z. J. Eury. No. 1,384,456; July 12; v. 288; p. 298.
- Cylinders, Repairing scored. R. D. Heacox. No. 1,385,334; July 19; v. 288; p. 559.
- Cylinders, Safety-plug for. V. P. McVoy. No. 1,377,496; May 10; v. 286; p. 270.
- Cylinders, Treating. E. A. Searles. No. 1,368,765; Feb. 15; v. 283; p. 473.
- Cylindrical machine parts at the same time, Mechanical device for grinding two. T. F. Bernard. No. 1,367,522; Feb. 1; v. 283; p. 127.
- Cylindrical machine parts at the same time, Mechanical compound grinding-head for grinding two. T. F. Bernard. No. 1,367,523; Feb. 1; v. 283; p. 127.
- Dam, Canvas. P. E. Thompson. No. 1,380,439; June 7; v. 287; p. 22.
- Dam construction. O. J. Hallee. No. 1,392,414; Oct. 4.
- Dam-gate, Time-controlled. E. Karns. No. 1,371,172; Mar. 8; v. 284; p. 314.
- Dam of ferroconcrete, Movable. O. Sommer. No. 1,382,132; June 21; v. 287; p. 454.
- Dam or check. C. L. Syes and S. Mitchell. No. 1,379,137; May 24; v. 286; p. 709.
- Damper. J. Alsasser. No. 1,395,784; Nov. 1.
- Damper, automatic. T. S. Cooper. No. 1,370,785; Mar. 8; v. 284; p. 241.
- Damper construction. T. Olinger. No. 1,398,038; Nov. 22.
- Damper controller, Automatic furnace-. E. J. Henry. No. 1,395,709; Nov. 1.
- Damper mechanism. H. H. A. Becker. No. 1,372,333; Mar. 22; v. 284; p. 659.



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- Damper regulator. F. Gray. No. 1,398,895; Nov. 29.  
 Damper regulator. L. W. Millis. No. 1,379,832; May 31; v. 286; p. 914.  
 Damper regulator, Automatic. W. V. Robinson. No. 1,379,781; May 31; v. 286; p. 903.  
 Damper-regulator, Self-locking. J. W. Gable. No. 1,397,953; Nov. 22.  
 Damper, Stack. A. Cotton. No. 1,395,395; Nov. 1.  
 Damping device, Vibrator. F. W. Orfeldt. No. 1,377,849; May 10; v. 286; p. 338.  
 Dancing, Apparatus for teaching. S. E. Feist. No. 1,374,840; Apr. 12; v. 285; p. 324.  
 Dancing practice, Figure for ballroom. S. E. Feist. No. 1,378,669; May 17; v. 286; p. 547.  
 Danger or stop and direction signal. J. G. Maris. No. 1,384,205; July 12; v. 288; p. 245.  
 Danger-signal. P. M. Feldham. No. 1,364,490; Jan. 4; v. 282; p. 86.  
 Danger-signal. P. G. Myers. No. 1,386,893; Aug. 9; v. 289; p. 257.  
 Darning device. E. M. Bass. No. 1,382,455; June 21; v. 287; p. 516.  
 Darning-hook. E. J. Post. No. 1,401,728; Dec. 27.  
 Dash-assembly and controlling device. H. Ford. No. 1,387,147; Aug. 9; v. 289; p. 307.  
 Dash-pot. G. A. Burnham. No. 1,364,980; Jan. 11; v. 282; p. 224.  
 Dash-pot. E. M. Camp. No. 1,394,063; Oct. 18.  
 Davenport-back. O. A. Honsinger. No. 1,397,963; Nov. 22.  
 Dashpot. F. Engcl. No. 1,374,914; Apr. 19; v. 285; p. 400.  
 Dashpot. F. Ljungström. No. 1,386,879; Aug. 9; v. 289; p. 234.  
 Date-indicator. G. P. Lely. No. 1,381,881; June 14; v. 287; p. 348.  
 Dauber, polisher, &c. A. J. Cochran. No. 1,384,827; July 19; v. 288; p. 456.  
 Davenport. C. W. Meves and F. G. Herrmann. No. 1,367,621; Feb. 8; v. 283; p. 204.  
 Davenport. J. M. Richardson. No. 1,366,419; Jan. 25; v. 282; p. 587.  
 Davenport. J. M. Richardson. No. 1,383,485; July 5; v. 288; p. 47.  
 Davenport. W. Schick. No. 1,388,606; Aug. 23; v. 289; p. 704.  
 Davenport, Back for bed. F. A. Hubbert. No. 1,374,661; Apr. 12; v. 285; p. 290.  
 Davit. A. J. Dawson. No. 1,364,727; Jan. 4; v. 282; p. 131.  
 Davit, Adjustable inclined. A. P. Schat. No. 1,369,132; Feb. 22; v. 283; p. 584.  
 Davit and crane. H. W. Broady. No. 1,388,830; Aug. 23; v. 289; p. 748.  
 Davit, Automatic. A. P. Schat. No. 1,369,133; Feb. 22; v. 283; p. 584.  
 Davit, Ship's. R. H. Alexander and T. Graham. No. 1,389,338; Aug. 30; v. 289; p. 905.  
 Davit, Ship's. H. B. Hills. No. 1,394,091; Oct. 18.  
 Dealcoholizing apparatus. R. H. Pfugfelder. No. 1,396,232; Nov. 8.  
 Debris or sediment collector. A. Parker. No. 1,393,389; Oct. 11.  
 Decarbonizing device. H. Bruncau. No. 1,394,665; Oct. 25.  
 Deck-plate key. W. Meyer. No. 1,384,705; July 12; v. 288; p. 350.  
 Decking system. E. Holmes. No. 1,390,439; Sept. 13; v. 290; p. 268.  
 Decutching mechanism. G. W. Dunham. No. 1,367,309; Feb. 1; v. 283; p. 85.  
 Decorative articles, Producing. K. L. Torno. No. 1,366,754; Jan. 25; v. 282; p. 654.  
 Decorticating-machine. C. P. Stewart. No. 1,374,407; Apr. 12; v. 285; p. 240.  
 Decorticating machine, Fibrous-plant. F. O'Neill, Jr. No. 1,371,805; Mar. 15; v. 284; p. 501.  
 Decorative finish, Interior. A. P. Cole. No. 1,399,336; Dec. 6.  
 Decoy. S. Kauffman. No. 1,376,282; Apr. 26; v. 285; p. 694.  
 Decoy-minnow. W. R. Neudeck. No. 1,401,096; Dec. 20.  
 Decoys, Anchoring and winding device for. L. Moore. No. 1,370,145; Mar. 1; v. 284; p. 73.  
 Deep-sea construction. W. Griesser. No. 1,391,380; Sept. 20; v. 290; p. 521.  
 Defense, Means of. O. V. Hargrave. No. 1,381,301; June 14; v. 287; p. 238.  
 Degasifying process. J. B. Pratt. No. 1,374,679; Apr. 12; v. 285; p. 293.  
 Degenerator and huller. M. Lindemann. No. 1,364,288; Jan. 4; v. 282; p. 48.  
 Degumming textile fibers. J. Meister. No. 1,397,875; Nov. 22.  
 Dehairing-machine. R. E. Jordan. No. 1,388,572; Aug. 23; v. 289; p. 698.  
 Dehydrator. H. B. Hartman. No. 1,376,691; May 3; v. 286; p. 18.  
 Delineating apparatus. L. S. Crone. No. 1,395,260; Nov. 1.  
 Delivery mechanism. M. D. Boughton. No. 1,374,981; Apr. 19; v. 285; p. 413.  
 Delivery rake, Side. R. R. Bowers. No. 1,371,465; Mar. 15; v. 284; p. 436.  
 Demonstrating device. A. J. Hall and C. C. Whittaker. No. 1,378,024; May 17; v. 286; p. 423.  
 Demonstrating device. E. P. Moffitt. No. 1,396,453; Nov. 8.  
 Demountable-rim contractor. A. Anderson and C. Brown. No. 1,385,353; July 26; v. 288; p. 639.  
 Demountable wheel. H. E. Holley. No. 1,398,020; Nov. 22.  
 Demountable wheel. A. J. Michelin. No. 1,376,390; Apr. 26; v. 285; p. 714.  
 Demountable wheel. C. T. Ridgely. No. 1,365,343; Jan. 11; v. 282; p. 293.  
 Demountable wheel. G. D. Slaymaker. No. 1,364,327; Jan. 4; v. 282; p. 54.  
 Dental amalgam or alloy mixer. B. Siml. No. 1,395,235; Oct. 25.  
 Dental amalgam or alloy mixer. B. Siml. No. 1,396,537; Nov. 8.  
 Dental apparatus. J. Fried. No. 1,390,354; Sept. 13; v. 290; p. 251.  
 Dental apparatus, Unitary. O. H. and A. F. Pieper. No. 1,376,356; Apr. 26; v. 285; p. 708.  
 Dental appliance. J. K. Means. No. 1,367,885; Feb. 8; v. 283; p. 255.  
 Dental appliance. E. E. D. Woisard. No. 1,374,792; Apr. 12; v. 285; p. 314.  
 Dental appliance. J. L. Young. No. 1,378,306; May 17; v. 286; p. 777.  
 Dental applicator. A. G. Jennings. No. 1,371,029; Mar. 8; v. 284; p. 287.  
 Dental articulator. J. Homer. No. 1,377,075; May 3; v. 286; p. 133.  
 Dental attachment. H. E. S. Chayes. No. 1,380,040; May 31; v. 286; p. 953.  
 Dental bridge. J. B. Foster. No. 1,392,824; Oct. 4.  
 Dental-bridge construction. L. E. Evslin. No. 1,393,767; Oct. 18.  
 Dental bridge, Removable. G. C. Witt. No. 1,370,720; Mar. 8; v. 284; p. 229.  
 Dental bridgework. H. E. S. Chayes. No. 1,366,058; Jan. 18; v. 282; p. 473.  
 Dental bridgework, Horizontally-split attachment for removable. J. Zirikian. No. 1,394,770; Oct. 25.  
 Dental casting-machine. J. H. French. No. 1,400,044; Dec. 13.  
 Dental casting-ring. W. H. Farnham. No. 1,367,130; Feb. 1; v. 283; p. 49.  
 Dental-chair jack. D. C. Hayden. No. 1,387,541; Aug. 16; v. 289; p. 437.  
 Dental-cotton holder and waste-receiver. N. I. Woolsey. No. 1,394,391; Oct. 18.  
 Dental cusp. J. Homer. No. 1,367,477; Feb. 1; v. 283; p. 418.  
 Dental device. O. C. Samphere. No. 1,381,750; June 14; v. 287; p. 323.  
 Dental-drill guide and gage. J. E. Craig. No. 1,366,877; Jan. 25; v. 282; p. 679.  
 Dental engine. G. D. Heck. No. 1,393,120; Oct. 11.  
 Dental-engine bracket. O. H. and A. F. Pieper. No. 1,377,432; May 10; v. 286; p. 258.  
 Dental-engine hand-tool. W. G. Shelton. No. 1,384,975; July 19; v. 288; p. 486.  
 Dental-engine handpiece. W. R. Porter. No. 1,391,906; Sept. 27; v. 290; p. 700.  
 Dental engines, Handpiece for. C. B. Bishop. No. 1,381,697; June 14; v. 287; p. 813.  
 Dental engines, Handpiece or. R. G. Stanbrough. No. 1,388,617; Aug. 23; v. 289; p. 707.  
 Dental-equipment stand. G. D. Heck. No. 1,387,053; Aug. 9; v. 289; p. 289.  
 Dental expansion-arch. W. A. McCarter. No. 1,395,922; Nov. 1.  
 Dental-floss holder. T. W. Cook. No. 1,380,530; June 7; v. 287; p. 39.  
 Dental-floss holder. J. B. Goodrich. No. 1,364,367; Jan. 4; v. 282; p. 62.  
 Dental-floss holder. G. C. Henerlau. No. 1,368,555; Feb. 15; v. 283; p. 432.  
 Dental-floss holder. L. S. Hogarty. No. 1,368,799; Feb. 15; v. 283; p. 479.  
 Dental-floss holder. O. O. Martin. No. 1,389,064; Aug. 30; v. 289; p. 850.  
 Dental forceps. W. A. Lurie. No. 1,380,726; June 7; v. 287; p. 76.  
 Dental handpiece. C. C. Seaborn. No. 1,379,880; May 31; v. 286; p. 922.  
 Dental impression flask or tray. F. E. Roach. No. 1,367,623; Feb. 8; v. 283; p. 205.  
 Dental impression-tray. C. E. Anderson. No. 1,369,768; Mar. 1; v. 284; p. 3.  
 Dental impression-tray. J. S. Bridges. No. 1,374,183; Apr. 12; v. 285; p. 197.  
 Dental impression-tray. A. M. Epstein. No. 1,391,535; Sept. 20; v. 290; p. 553.  
 Dental impression-tray. A. T. Graham. No. 1,369,171; Feb. 22; v. 283; p. 593.  
 Dental impression-tray. L. V. Robinson. No. 1,376,163; Apr. 26; v. 285; p. 671.  
 Dental impression-tray. F. W. Wallace. No. 1,378,297; May 17; v. 286; p. 475.  
 Dental instrument. W. W. Bolis. No. 1,384,740; July 19; v. 288; p. 437.  
 Dental instrument. M. Cohen. No. 1,400,028; Dec. 13.



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- Dental instrument. W. E. Pearl. No. 1,368,195; Feb. 8; v. 283; p. 314.
- Dental instrument. F. Vogelzang. No. 1,378,433; May 17; v. 286; p. 501.
- Dental instrument. D. A. Zurbrigg. No. 1,382,401; June 21; v. 287; p. 405.
- Dental lip and tongue depressor. A. Barr. No. 1,400,854; Dec. 20.
- Dental materials, Apparatus for dispensing. C. W. Meguiar. No. 1,386,193; Aug. 2; v. 289; p. 46.
- Dental model, Technical anatomical. F. G. Hawksworth. No. 1,387,540; Aug. 16; v. 289; p. 437.
- Dental-napkin holder. W. F. Shaw. No. 1,381,672; June 14; v. 287; p. 308.
- Dental nerve-broach. T. W. Jones. No. 1,369,112; Feb. 22; v. 283; p. 580.
- Dental press. F. O. Jaques, Jr. No. 1,371,245; Mar. 15; v. 284; p. 391.
- Dental radiographs, Appliance for holding films for. T. B. S. Wallace. No. 1,398,247; Nov. 29.
- Dental scaler. W. H. H. Bixler. No. 1,397,395; Nov. 15.
- Dental shell. G. L. Van Allen. No. 1,379,063; May 24; v. 286; p. 694.
- Dental solder and the like, Package for. G. L. Van Allen. No. 1,375,479; Apr. 19; v. 285; p. 509.
- Dental surgical instrument. J. H. Taylor. No. 1,386,288; Aug. 2; v. 289; p. 65.
- Dental surgical instrument. J. H. Taylor. No. 1,386,289; Aug. 2; v. 289; p. 65.
- Dental tool. F. Gonzalez. No. 1,379,445; May 24; v. 286; p. 766.
- Dental tool. L. P. Wagner. No. 1,369,582; Feb. 22; v. 283; p. 671.
- Dental tool for extracting lower molars. G. F. McCombs. No. 1,389,954; Sept. 6; v. 290; p. 80.
- Dental tray. F. E. Roach. No. 1,367,627; Feb. 8; v. 283; p. 205.
- Dental treatment, &c., Saliva-ejector for use in. J. A. Rönn. No. 1,401,646; Dec. 27.
- Dental vulcanizer. H. L. Wygert. No. 1,401,933; Dec. 27.
- Dental water-heater. E. W. Bunce. No. 1,373,116; Mar. 29; v. 284; p. 852.
- Dental wax-warming device. J. A. Heidbrink. No. 1,396,957; Nov. 15.
- Dental X-ray-film packet. R. R. Taylor. No. 1,394,503; Oct. 18.
- Dental X-ray films, Holder for. J. M. Martin. No. 1,378,709; May 17; v. 286; p. 555.
- Dentifrice. W. T. Green. No. 1,386,252; Aug. 2; v. 289; p. 58.
- Dentifrice. W. S. Rogers. No. 1,379,046; May 24; v. 286; p. 691.
- Dentifrice-dispensing device. C. Doyle. No. 1,375,954; Apr. 26; v. 285; p. 631.
- Dentist's casting-flask. T. E. Moore. No. 1,369,182; Feb. 22; v. 283; p. 593.
- Denture and tooth therefor. J. L. Williams. No. 1,397,192; Nov. 15.
- Denture, Artificial. R. V. Blake. No. 1,369,078; Feb. 22; v. 283; p. 573.
- Denture, Artificial. F. L. Eager. No. 1,401,243; Dec. 27.
- Denture, Artificial. I. Weintraub. No. 1,369,509; Feb. 22; v. 283; p. 656.
- Denture-backings, Press for metallic. R. M. Craig. No. 1,373,170; Mar. 29; v. 284; p. 864.
- Dentures and manufacturing same, Suction device for artificial. A. W. Fisher. No. 1,366,644; Jan. 25; v. 282; p. 632.
- Deodorization, Embalming process for. T. B. Barnes. No. 1,400,344; Dec. 13.
- Depositing-machine. F. Westerman. No. 1,392,034; Sept. 27; v. 290; p. 728.
- Depth-indicating device. E. E. Huffman. No. 1,396,844; Nov. 15.
- Depth-indicating device. H. W. King. No. 1,364,503; Jan. 4; v. 282; p. 89.
- Depth-indicating device. H. W. King. No. 1,364,504; Jan. 4; v. 282; p. 89.
- Derailing device. C. E. Zortman. No. 1,368,008; Feb. 8; v. 283; p. 277.
- Derrick. M. Burke. No. 1,396,250; Nov. 8.
- Derrick. O. E. Hovey. No. 1,369,107; Feb. 22; v. 283; p. 579.
- Derrick. J. W. Kittredge. No. 1,384,960; July 19; v. 288; p. 483.
- Derrick. G. P. Slater. No. 1,393,842; Oct. 18.
- Derrick-fitting. R. R. Bloss. No. 1,400,408; Dec. 13.
- Derrick-fitting. R. R. Bloss and W. Schwemlein. No. 1,385,659; July 26; v. 288; p. 703.
- Derrick, Hoisting-. W. M. Venable. No. 1,376,054; Apr. 26; v. 285; p. 651.
- Derrick or excavating-machine. J. A. Harman. No. 1,385,543; July 26; v. 288; p. 679.
- Derrick, Pole-. T. C. Smith. No. 1,372,838; Mar. 29; v. 284; p. 797.
- Derrick, Portable. W. S. Garrett. No. 1,399,424; Dec. 6.
- Derrick, Towing-. A. Gloor. No. 1,400,540; Dec. 20.
- Desiccating apparatus. A. D. Robinson. No. 1,389,597.
- Desiccating-machine. G. C. Contant. No. 1,371,071; Mar. 8; v. 284; p. 295.
- Desiccator. W. O. Rew. No. 1,392,656; Oct. 4.
- Design, Reproducing. J. W. Aston. No. 1,396,393; Nov. 8; Sept. 6; v. 290; p. 7.
- Designs, Device for making. W. M. Tietz. No. 1,400,838; Dec. 20.
- Designer's tool. A. A. Southwick. No. 1,376,475; May 3; v. 286; p. 19.
- Desk. R. B. Elledge. No. 1,374,070; Apr. 5; v. 285; p. 134.
- Desk. A. S. Falls. No. 1,377,767; May 10; v. 286; p. 322.
- Desk. J. Michaels. No. 1,398,237; Nov. 29.
- Desk. F. H. Shaw. No. 1,396,291; Nov. 8.
- Desk. C. B. Steddum. No. 1,379,134; May 24; v. 286; p. 708.
- Desk-accessory device. T. N. Bearfield. No. 1,370,725; Mar. 8; v. 284; p. 230.
- Desk and bed, Combination. T. B. Draper. No. 1,366,368; Jan. 25; v. 282; p. 576.
- Desk and cabinet, Combined writing-. V. R. Menon. No. 1,392,191; Sept. 27; v. 290; p. 758.
- Desk and chair, Combination adjustable school. E. C. and E. C., Jr., Hoyer. No. 1,369,108; Feb. 22; v. 283; p. 579.
- Desk and chair, Combined school. P. O. Derbyshire. No. 1,385,432; July 26; v. 288; p. 655.
- Desk and chair, School. L. Arnholz. No. 1,370,396; Mar. 1; v. 284; p. 121.
- Desk and seat, Combined school. D. R. Collier. No. 1,389,185; Aug. 30; v. 289; p. 874.
- Desk-chair. E. Thompson. No. 1,375,867; Apr. 26; v. 285; p. 614.
- Desk construction. J. Michaels. No. 1,372,626; Mar. 22; v. 284; p. 714.
- Desk device, Two-part dispensing. J. V. Washburne. No. 1,392,993; Oct. 11.
- Desk-drawers and the like, Attachment for. J. H. Hotson. No. 1,398,023; Nov. 22.
- Desk, Ledger or filing. E. Ohnstrand. No. 1,372,536; Mar. 22; v. 284; p. 697.
- Desk, Letter-carrier's. C. F. Heath. No. 1,376,333; Apr. 26; v. 285; p. 704.
- Desk, Metal. F. P. Williams. No. 1,392,998; Oct. 11.
- Desk, Metal. K. P. Williams and A. McIntyre. No. 1,397,827; Nov. 22.
- Desk, Money-counter's. A. R. Neilson. No. 1,368,827; Feb. 15; v. 283; p. 484.
- Desk or cabinet, Folding. W. Tanquary. No. 1,371,987; Mar. 15; v. 284; p. 535.
- Desk-pad. M. Weinman. No. 1,398,349; Nov. 29.
- Desk-receptacle. A. Martin. No. 1,396,228; Nov. 8.
- Desk, School-. J. D. Atkinson. No. 1,382,404; June 21; v. 287; p. 506.
- Desk-slides, Stop for. E. Rhodes. No. 1,397,782; Nov. 22.
- Desk, Sliding-top. L. S. Crone. No. 1,395,558; Nov. 1.
- Desk, table, and bed, Combined. J. M. McGhee. No. 1,375,524; Apr. 19; v. 285; p. 517.
- Desk, table, and like office furniture. W. Stafford. No. 1,385,233; July 19; v. 288; p. 539.
- Desk-top or like structure and making same. W. A. Gunn. No. 1,381,916; June 21; v. 287; p. 415.
- Desk, Writing-. A. L. Howe. No. 1,385,004; July 19; v. 288; p. 493.
- Desks, Protector for. R. H. Mester. No. 1,390,370; Sept. 13; v. 290; p. 254.
- Despatch apparatus, Pneumatic-. J. G. Maclaren. No. 1,396,449; Nov. 8.
- Despatch systems, Central-station apparatus for carrier-. F. G. Whittier. No. 1,365,428; Jan. 11; v. 282; p. 310.
- Despatch-holder. A. A. Lombard. No. 1,398,137; Nov. 22.
- Despatch-tube apparatus, Carrier-selecting device for pneumatic-. A. Engbresen. No. 1,383,194; June 28; v. 287; p. 710.
- Desiccating, Process and apparatus for. I. S. Merrell. No. 1,365,055; Jan. 11; v. 282; p. 238.
- Detachable handle. C. Grant. No. 1,376,528; May 3; v. 286; p. 28.
- Detachable handle. A. Nelson. No. 1,396,140; Nov. 8.
- Detachable handle. E. N. Schott. No. 1,367,757; Feb. 8; v. 283; p. 230.
- Detachable wheel. L. Rouanet. No. 1,388,605; Aug. 23; v. 289; p. 704.
- Detachable wheel, Pressed-steel. G. W. Watson and N. B. Ludlow. No. 1,387,632; Aug. 16; v. 289; p. 455.
- Detecting or measuring moisture, Means for. C. A. Parsons and A. H. Law. No. 1,383,233; June 28; v. 287; p. 717.
- Defector. See—
- Leak-detector. Vacuum-valve detector.
- Sheet-register detector.
- Detector-signal. S. Dawson. No. 1,375,367; Apr. 19; v. 285; p. 487.
- Detergent. C. C. Baker. No. 1,378,311; May 17; v. 286; p. 478.
- Detergent. S. A. Hartmann. No. 1,387,153; Aug. 9; v. 289; p. 308.
- Detersive and emulsive agents, Manufacture of. R. Macpherson and W. E. Heys. No. 1,373,900; Apr. 5; v. 285; p. 102.
- Detinning of tinned iron-scrap. M. A. Adams, J. Stevenson, and A. T. Mabbitt. No. 1,379,237; May 24; v. 286; p. 727.
- Detonating alarm. W. H. Cook. No. 1,398,362; Nov. 29.
- Detonating composition. W. C. Cope. No. 1,399,104; Dec. 6.
- Devaporizing and cooling, Method and apparatus for. P. A. Bancel. No. 1,380,460; June 7; v. 287; p. 26.



- Developing-machine. S. Paulson and A. Hatch. No. 1,381,222; June 14; v. 287; p. 224.
- Deviascope. S. A. Ellings. No. 1,374,142; Apr. 5; v. 285; p. 148.
- Diagnostic instrument. H. L. De Zeng. No. 1,395,264; Nov. 1.
- Diagrams, Apparatus for obtaining pressure time. N. R. Gibson. No. 1,394,001; Oct. 18.
- Dial. A. J. Richardson. No. 1,393,569; Oct. 11.
- Dial, Cumulative. C. B. Hinsman. No. 1,371,371; Mar. 15; v. 284; p. 416.
- Dial-fastener. H. Colomb. No. 1,400,421; Dec. 13.
- Dial-indicator. H. R. Geer. No. 1,384,802; July 19; v. 288; p. 451.
- Dial-lock. R. C. Lewis. Nos. 1,395,844-5; Nov. 1.
- Dial-lock. R. C. Lewis. No. 1,398,642; Nov. 29.
- Diameter-gage. E. H. Aldeborgh. No. 1,401,119; Dec. 27.
- Diamond-polishing machine. G. R. Whitehead. No. 1,374,267; Apr. 12; v. 285; p. 213.
- Diamonds during the polishing operation, Method and means for holding. C. J. Coleman. No. 1,364,353; Jan. 4; v. 282; p. 60.
- Diaphragm. G. E. Mather. No. 1,386,722; Aug. 9; v. 289; p. 222.
- Diaphragm and making same, Resonant. A. Gelbert. No. 1,377,677; May 10; v. 286; p. 304.
- Diaphragm and making such diaphragms. H. C. Egerton. No. 1,393,515; Oct. 11.
- Diaphragm-confiner. K. L. Burns. No. 1,393,609; Oct. 11.
- Diaphragm device, Pressure-controlled. J. M. Larson. No. 1,379,709; May 31; v. 286; p. 890.
- Diaphragm for gramophones, phonographs, telephones, &c. A. T. Collier. No. 1,385,243; July 19; v. 288; p. 541.
- Diaphragm-mounting. C. N. Warner. No. 1,372,054; Mar. 22; v. 284; p. 605.
- Diaphragm-mounting. E. C. Wood and H. J. W. Fay. No. 1,401,024; Dec. 20.
- Diaphragm, Osmotic. E. A. Sperry. No. 1,368,227; Feb. 8; v. 283; p. 320.
- Diaphragm signaling device, Vibratory. D. A. McConnell. No. 1,400,085; Dec. 13.
- Diary. G. H. Robichon. No. 1,378,560; May 17; v. 286; p. 525.
- Diary. G. Wilkinson. No. 1,368,672; Feb. 15; v. 283; p. 455.
- Dice, Rotatable. F. W. Siegel, F. J. Boyle, and J. M. Sipp. No. 1,374,243; Apr. 12; v. 285; p. 208.
- Die: See—
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| Adjustable end die. | Flat die.           |
| Automatic die.      | Press-die.          |
| Clicking-die.       | Stock and die.      |
| Cutting-die.        | Thread-cutting die. |
| Embossing-die.      |                     |
- Die. F. W. Conant. No. 1,399,932; Dec. 13.
- Die. C. F. Lenhart. No. 1,380,984; June 7; v. 287; p. 127.
- Die. T. Lund. No. 1,374,934; Apr. 19; v. 285; p. 404.
- Die. C. A. Parsons, S. S. Cook, A. Q. Carnegie, J. Ford, and M. Bone. No. 1,379,717; May 31; v. 286; p. 892.
- Die. R. C. Simmons. No. 1,368,363; Feb. 15; v. 283; p. 395.
- Die. W. S. Thomas. No. 1,383,675; July 5; v. 288; p. 87.
- Die and head therefor. H. L. Venn. No. 1,383,177; June 28; v. 287; p. 706.
- Die, Automatic. H. F. Neumever. No. 1,399,867; Dec. 13.
- Die-block. B. E. Bolling. No. 1,394,247; Oct. 18.
- Die-cast structure, Protected. F. Briscoe. No. 1,371,408; Mar. 15; v. 284; p. 424.
- Die-casting apparatus. J. L. Gerber. No. 1,376,090; Apr. 26; v. 285; p. 658.
- Die-casting ejector. B. E. Bolling. No. 1,394,246; Oct. 18.
- Die-casting machine. G. W. Bungay. No. 1,398,314; Nov. 29.
- Die-casting machine. J. C. Kopf. No. 1,394,561; Oct. 25.
- Die-casting machine. P. L. Sibole. No. 1,377,604; May 10; v. 286; p. 290.
- Die-casting, Method and apparatus for pressure. E. H. Sherbondy. No. 1,377,226; May 10; v. 286; p. 217.
- Die-castings, Method of and apparatus for making. J. Soss. No. 1,378,984; May 24; v. 286; p. 679.
- Die-Cushion. D. Strand. No. 1,401,371; Dec. 27.
- Die, Expanding. M. P. Janisch. No. 1,385,833; July 26; v. 288; p. 738.
- Die for making articles from sheet metal. I. Kantrowitz. No. 1,368,731; Feb. 15; v. 283; p. 467.
- Die-head. V. R. Koontz. No. 1,394,845; Oct. 25.
- Die-head. G. T. Shearer. No. 1,397,238; Nov. 15.
- Die-head. L. Spreitzer. No. 1,376,047; Apr. 26; v. 285; p. 649.
- Die-head, Self-opening. W. C. Hafemeister. No. 1,394,549; Oct. 25.
- Die, Making a. A. A. McIntyre. No. 1,398,196; Nov. 22.
- Die-making machine. R. L. Hawkes. No. 1,391,055; Sept. 20; v. 290; p. 455.
- Die, Metallic-denture-drawing. R. M. Craig. No. 1,392,919; Oct. 11.
- Die-press. W. B. Bronander. No. 1,397,358; Nov. 15.
- Die-press, Automatic. C. D. McDonald. No. 1,375,924; Apr. 26; v. 285; p. 625.
- Die-presses, Automatic delivery for. J. E. Woodbury. No. 1,374,131; Apr. 5; v. 285; p. 146.
- Die-slide-operating mechanism. W. L. Clouse. No. 1,366,360; Jan. 25; v. 282; p. 575.
- Die, Trimming. J. E. Peterson. No. 1,396,230; Nov. 8.
- Dies for drawing and upsetting metal form. W. B. Smith. No. 1,393,916; Oct. 18.
- Dies in forging apparatus, Means for securing. K. A. Anderson. No. 1,389,286; Aug. 30; v. 289; p. 894.
- Dies, Process and apparatus for producing cutting. C. G. Anderson and J. E. Swanson. No. 1,365,075; Jan. 11; v. 282; p. 242.
- Diestock. M. Cramer. No. 1,397,243; Nov. 15.
- Diestock. I. W. Nonneman. No. 1,399,397; Dec. 6.
- Differential brake. H. F. Johnson. No. 1,393,135; Oct. 11.
- Differential gage. A. T. Baldwin. Nos. 1,394,660-1; Oct. 25.
- Differential mechanism. W. A. Jex. No. 1,366,805; Jan. 25; v. 282; p. 664.
- Differential rack. C. J. West. No. 1,389,233; Aug. 30; v. 289; p. 883.
- Diffusing element. C. W. Frederick and R. S. Hopkins. No. 1,370,885; Mar. 8; v. 284; p. 260.
- Diffusion apparatus, Portable. R. Moulin. No. 1,377,909; May 10; v. 286; p. 350.
- Digesters and other apparatus, Cover for. J. Pirony. No. 1,371,393; Mar. 15; v. 284; p. 421.
- Digesting apparatus. H. D. Rankin. No. 1,364,803; Jan. 4; v. 282; p. 146.
- Digger: See—
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| Clam-digger.       | Shovel-digger.      |
| Coal-digger.       | Tile-trench digger. |
| Ditch-digger.      | Trench-digger.      |
| Mechanical digger. | Well-digger.        |
| Peanut-digger.     |                     |
- Digging and collecting machine, Stone. G. Steffan. No. 1,380,936; June 7; v. 287; p. 117.
- Digging-machine. C. Holly. No. 1,373,815; Apr. 5; v. 285; p. 85.
- Digging-machine. A. Peppin. No. 1,397,543; Nov. 22.
- Digging-machine, Rotary. A. Rutishauser. No. 1,383,761; July 5; v. 288; p. 105.
- Digging machines, Digger-chain for ditch. L. G. Dunlap. No. 1,397,679; Nov. 22.
- Dilator. J. G. Homan. No. 1,381,194; June 14; v. 287; p. 219.
- Dilator. R. H. Whitney. No. 1,400,648; Dec. 20.
- Dimension indicator and marker. C. G. Beals. No. 1,396,806; Nov. 15.
- Dimmer. J. Galamb and E. P. Oswald. No. 1,400,811; Dec. 20.
- Dimmer. T. J. Kehoe. No. 1,390,359; Sept. 13; v. 290; p. 252.
- Dimmer. E. C. Midgley. No. 1,392,878; Oct. 4.
- Dimmer switch. H. F. Laub. No. 1,399,129; Dec. 6.
- Dimethyl sulfate, Preparation of. W. N. Haworth and J. C. Irvine. No. 1,401,693; Dec. 27.
- Dining-room turntable. C. Claus. No. 1,393,202; Oct. 11.
- Dining-service apparatus. H. S. Greenberg. No. 1,382,354; June 21; v. 287; p. 496.
- Dining-service apparatus. H. S. Greenberg. No. 1,384,191; July 12; v. 288; p. 242.
- Dining-table service-indicator. E. W. White. No. 1,383,685; July 5; v. 288; p. 89.
- Dinitrodi phenylamin, Preparing. R. C. Moran. No. 1,401,437; Dec. 27.
- Diphenylamin, Manufacture of. A. E. Houlehan. No. 1,392,942; Oct. 11.
- Dipper-tooth. W. S. McKee. No. 1,395,048; Oct. 25.
- Dipping apparatus. J. W. Pearson. No. 1,401,437; Dec. 27.
- Dipping-vats, Stock-chute for. C. P. Burt. No. 1,380,189; May 31; v. 286; p. 981.
- Direct-current motor. J. Burke. No. 1,365,302; Jan. 11; v. 282; p. 286.
- Direction indicating and registering mechanism. A. McNab. No. 1,369,682; Feb. 22; v. 283; p. 690.
- Direction-indicating signal. G. B. Owens. No. 1,392,442; Oct. 4.
- Direction-indicator. A. J. Bradford. No. 1,366,867; Jan. 25; v. 282; p. 677.
- Direction-indicator. N. T. Brown. No. 1,395,088; Oct. 25.
- Direction-indicator. J. Cuper. No. 1,398,715; Nov. 29.
- Direction-indicator. W. F. Dorrida. No. 1,383,192; June 28; v. 287; p. 709.
- Direction-indicator. L. Frank. No. 1,384,248; July 12; v. 288; p. 254.
- Direction-indicator. L. Frank. No. 1,384,249; July 12; v. 288; p. 255.
- Direction-indicator. J. A. G. Grant. No. 1,369,423; Feb. 22; v. 283; p. 640.
- Direction-indicator. A. J. Havrilla. No. 1,366,261; Jan. 18; v. 282; p. 512.
- Direction-indicator. H. H. Jewell. No. 1,388,570; Aug. 23; v. 289; p. 697.
- Direction-indicator. E. F. Kiessling. No. 1,392,506; Oct. 4.
- Direction-indicator. W. Klabunde. No. 1,367,190; Feb. 1; v. 283; p. 61.
- Direction-indicator. G. Komlosy. No. 1,380,152; May 31; v. 286; p. 974.
- Direction-indicator. J. Koncur. No. 1,370,652; Mar. 8; v. 284; p. 216.
- Direction-indicator. R. V. Leaf. No. 1,372,967; Mar. 29; v. 284; p. 824.
- Direction-indicator. W. M. Leedom. No. 1,395,645; Nov. 1.



*Alphabetical list of inventions—Continued.*

- Direction-indicator. W. B. Louthan. No. 1,377,082; May 3; v. 286; p. 134.
- Direction-indicator. R. N. McClure. No. 1,366,400; Jan. 25; v. 282; p. 583.
- Direction-indicator. R. N. McClure. No. 1,366,739; Jan. 25; v. 282; p. 651.
- Direction-indicator. R. N. McClure. No. 1,387,791; Aug. 16; v. 289; p. 488.
- Direction-indicator. M. T. McIntyre. No. 1,385,219; July 19; v. 288; p. 537.
- Direction-indicator. L. F. Stone. No. 1,366,846; Jan. 25; v. 282; p. 672.
- Direction-indicator. A. R. Townshend, Jr. No. 1,393,854; Oct. 18.
- Direction-indicator. C. A. Warring. No. 1,396,304; Nov. 8.
- Direction-indicator. D. M. Weaver. No. 1,371,532; Mar. 15; v. 284; p. 449.
- Direction-indicator and measuring instrument. E. E. Wickersham. No. 1,386,666; Aug. 9; v. 289; p. 210.
- Direction-indicator, Vehicle. B. Weinstein. No. 1,364,334; Jan. 4; v. 282; p. 56.
- Direction-signal. C. H. Batten. No. 1,370,400; Mar. 1; v. 284; p. 122.
- Direction-signal. I. Conrad. No. 1,390,670; Sept. 13; v. 290; p. 316.
- Direction-signal. H. Rhead. No. 1,382,238; June 21; v. 287; p. 473.
- Direction-signal. J. G. Roseboom. No. 1,385,230; July 19; v. 288; p. 539.
- Direction signal or indicator. S. Janson. No. 1,380,479; June 7; v. 287; p. 29.
- Directory. G. Schubel. No. 1,364,527; Jan. 4; v. 282; p. 93.
- Directory-frame. H. F. Starrett. No. 1,366,968; Feb. 1; v. 283; p. 17.
- Directory, Street-. F. N. Marshall. No. 1,386,347; Aug. 2; v. 289; p. 76.
- Dirigible. A. C. Mikanovich. No. 1,395,051; Oct. 25.
- Dirigible. R. A. D. Preston. No. 1,370,043; Mar. 1; v. 284; p. 54.
- Dirigible bodies, Steering mechanism for. K. Dougan. No. 1,384,745; July 19; v. 288; p. 439.
- Dirigible devices from a distance, System for control of. A. D. Trenor. No. 1,374,124; Apr. 5; v. 285; p. 144.
- Dirigible headlight. G. W. J. Crabb and E. J. Rennie. No. 1,392,747; Oct. 4.
- Dirigible light. M. R. Buikema. No. 1,364,708; Jan. 4; v. 282; p. 127.
- Dirigible light. J. H. Stout and L. C. Plater. No. 1,366,217; Jan. 18; v. 282; p. 504.
- Dirigible lighting mechanism. O. D. Eastman and W. M. Gregg. No. 1,380,367; June 7; v. 287; p. 8.
- Dirigible spot-light. N. Grinwis. No. 1,367,962; Feb. 8; v. 283; p. 269.
- Dirigible spotlight. W. S. and E. H. Farnsworth. No. 1,401,246; Dec. 27.
- Disconnecting-switch. C. Christensen. No. 1,394,968; Oct. 25.
- Disconnecting-switch. E. H. Jacobs. No. 1,391,059; Sept. 20; v. 290; p. 456.
- Disconnecting-switch. B. P. Rowe. No. 1,393,454; Oct. 11.
- Disconnecting-switch. M. M. Samuels and F. N. Bechoff. No. 1,381,344; June 14; v. 287; p. 244.
- Dish, Carving-. G. H. Berwick. No. 1,365,147; Jan. 11; v. 282; p. 256.
- Dish, Cereal-. J. Bjornsen. No. 1,379,519; May 24; v. 286; p. 781.
- Dish-cleaner. C. D. Armstrong. No. 1,398,664; Nov. 29.
- Dish-drainer. H. Shults and C. R. Dunn. No. 1,389,908; Sept. 6; v. 290; p. 71.
- Dish-scraper. F. Reuckmann. No. 1,401,457; Dec. 27.
- Dish-washer. G. M. Green. No. 1,394,169; Oct. 18.
- Dish-washer. A. H. Hock. No. 1,388,431; Aug. 23; v. 289; p. 671.
- Dishwasher. T. H. Monaghan. No. 1,399,978; Dec. 13.
- Dish-washer. J. Opocenský. No. 1,382,117; June 21; v. 287; p. 451.
- Dish-washing apparatus. H. Rosenbaum. No. 1,386,734; Aug. 9; v. 289; p. 224.
- Dish-washing device, Table. J. D. Hoyt. No. 1,373,506; Apr. 5; v. 285; p. 25.
- Dish-washing machine. W. U. Boedeker. No. 1,392,476; Oct. 4.
- Dish-washing machine. G. W. Conover. No. 1,365,382; Jan. 11; v. 282; p. 301.
- Dish-washing machine. J. W. Crooks. No. 1,382,172; June 21; v. 287; p. 461.
- Dish-washing machine. J. W. Crooks. No. 1,385,203; July 19; v. 288; p. 534.
- Dish-washing machine. K. Cwirko. No. 1,381,107; June 14; v. 287; p. 203.
- Dish-washing machine. M. A. Hopkins. No. 1,398,022; Nov. 22.
- Dish-washing machine. M. E. Hostater. No. 1,393,687; Oct. 11.
- Dish-washing machine. T. Huggins. No. 1,382,915; June 28; v. 287; p. 657.
- Dish-washing machine. C. F. Lochow. No. 1,397,767; Nov. 22.
- Dish-washing machine. H. B. Oves. No. 1,381,221; June 14; v. 287; p. 224.
- Dish-washing machine. W. R. Walker. No. 1,397,846; Nov. 22.
- Dish-washing machine. F. E. Wolcott. No. 1,390,223; Sept. 6; v. 290; p. 133.
- Dish-washing machine. L. C. and E. G. Wood. No. 1,395,324; Nov. 1.
- Dish-washing-machine receptacle. F. E. Wolcott. No. 1,380,310; May 31; v. 286; p. 1003.
- Dish-washing tool. C. M. Colby. No. 1,401,878; Dec. 27.
- Dishes, Cover for. W. F. Rogers. No. 1,380,308; May 31; v. 286; p. 1003.
- Dishcloth, mop, &c., holder. A. Hamilton. No. 1,386,173; Aug. 2; v. 289; p. 42.
- Dishcloths or the like, Device for holding or gripping. J. Hans. No. 1,391,632; Sept. 20; v. 290; p. 572.
- Disinfectant, Producing solidified soluble. A. Franck-Philpson. No. 1,392,564; Oct. 4.
- Disinfectant, Telephone-mouthpiece. J. Ferguson and W. H. Bennett. No. 1,390,896; Sept. 13; v. 290; p. 360.
- Disinfectants, Delivery device for liquid. S. Silvers. No. 1,366,426; Jan. 25; v. 282; p. 588.
- Disinfecting device. C. Amann. No. 1,365,642; Jan. 18; v. 282; p. 391.
- Disintegrating and conserving mechanism. E. A. McKoy and G. D. Moore. (Reissue.) No. 15,165; July 26; v. 288; p. 766.
- Disintegrating-machine. T. Gilmore, Jr. No. 1,396,108; Nov. 8.
- Disintegrating machines, Cutting device for fruit. L. A. Babcock. No. 1,373,398; Apr. 5; v. 285; p. 3.
- Disintegrator. J. K. Blum. No. 1,384,821; July 19; v. 288; p. 454.
- Disintegrator. J. A. Herron. No. 1,392,054; Sept. 27; v. 290; p. 731.
- Disintegrator, Soil-. I. A. Kerr. No. 1,397,428; Nov. 15.
- Disk and making same, Conical. O. B. Lindquist. No. 1,386,182; Aug. 2; v. 289; p. 44.
- Disk clutch. E. Goldberger. No. 1,383,717; July 5; v. 288; p. 96.
- Disk-coupling, Flexible. R. J. Stokes. No. 1,398,163; No. 22.
- Disk-cutting machine. F. Blando and S. Duca. No. 1,401,307; Dec. 27.
- Disk drills, Oilier for. R. W. Lewis. No. 1,383,957; July 5; v. 288; p. 144.
- Disk harrow. T. E. Bissell. No. 1,388,159; Aug. 23; v. 289; p. 615.
- Disk harrow and analogous machine. A. J. McAdam. No. 1,364,943; Jan. 11; v. 282; p. 217.
- Disk harrow, Horizontal adjustable draft connection for. T. E. Bissell. No. 1,388,160; Aug. 23; v. 289; p. 615.
- Disk, Percussion-. V. Schläfer. No. 1,366,499; Jan. 25; v. 282; p. 603.
- Disk-record. H. W. Meyer. No. 1,372,822; Mar. 29; v. 284; p. 794.
- Disk-record-replaying device. E. S. Thompson. No. 1,376,177; Apr. 26; v. 285; p. 673.
- Disk cords, Indicator or measuring-gage for. O. Bochner. No. 1,398,710; Nov. 29.
- Disk-stacking device. W. E. Moore. No. 1,391,202; Sept. 20; v. 290; p. 485.
- Disk steel wheel. G. H. Forsyth. No. 1,373,184; Mar. 29; v. 284; p. 867.
- Disk vehicle-wheel. R. C. Hoffman. No. 1,376,205; Apr. 26; v. 285; p. 679.
- Disk vehicle-wheel. R. J. Turner. No. 1,380,873; June 7; v. 287; p. 105.
- Disk wheel. T. C. Burns and F. K. Huffman. No. 1,365,452; Jan. 11; v. 282; p. 313.
- Disk wheel. E. R. Draver. No. 1,371,077; Mar. 8; v. 284; p. 296.
- Disk wheel. E. R. Draver. No. 1,378,332; May 17; v. 286; p. 482.
- Disk wheel. G. H. Forsyth. No. 1,373,185; Mar. 29; v. 284; p. 867.
- Disk wheel. G. H. Forsyth. No. 1,373,186; Mar. 29; v. 284; p. 867.
- Disk wheel. G. H. Forsyth. No. 1,375,372; Apr. 19; v. 285; p. 488.
- Disk wheel. G. H. Forsyth. No. 1,377,162; May 3; v. 286; p. 149.
- Disk wheel. G. H. Forsyth. No. 1,378,537; May 17; v. 286; p. 521.
- Disk wheel. F. C. Schoenthal. No. 1,382,556; June 21; v. 287; p. 535.
- Disk wheel. F. C. Schoenthal. No. 1,389,601; Sept. 6; v. 290; p. 8.
- Disk-wheel assembly. V. Loughheed. No. 1,379,352; May 24; v. 286; p. 750.
- Disk wheel, Demountable. A. L. Putnam. No. 1,384,405; July 12; v. 288; p. 287.
- Disk wheels, Forming. R. C. Hoffman. No. 1,380,906; June 7; v. 287; p. 111.
- Disks, Feeding device for sealing. C. W. Kendall. No. 1,398,724; Nov. 29.
- Disks, Forming wheel-. A. Christianson. No. 1,399,335; Dec. 6.
- Disks, Method of and apparatus for finishing water-meter. F. Lambert. No. 1,377,988; May 10; v. 286; p. 365.
- Disks, Mill for rolling tapered. A. Christianson. Nos. 1,399,333-4; Dec. 6.
- Dispenser. R. A. Lissman. No. 1,368,270; Feb. 15; v. 283; p. 376.



- Dispenser. G. L. and W. E. Richardson. No. 1,373,973; Apr. 5; v. 285; p. 116.
- Dispenser, Liquid. G. A. and A. L. Bobrick. No. 1,364,347; Jan. 4; v. 282; p. 59.
- Dispensing and measuring device, Oil. S. C. Price and E. E. Richardson. No. 1,380,590; June 7; v. 287; p. 50.
- Dispensing and refrigerating apparatus, Combined. R. A. Johns and F. L. Myers. No. 1,378,792; May 17; v. 286; p. 571.
- Dispensing apparatus. C. L. Bastian. No. 1,399,373; Dec. 6.
- Dispensing apparatus. H. B. Cooley. No. 1,396,995; Nov. 15.
- Dispensing apparatus. D. G. Frazier. No. 1,395,407; Nov. 1.
- Dispensing apparatus. J. H. Limpert. No. 1,387,995; Aug. 16; v. 289; p. 527.
- Dispensing apparatus. J. R. Scales and L. M. Wilson. No. 1,400,770; Dec. 20.
- Dispensing apparatus. J. W. Stiglitz. No. 1,379,291; May 24; v. 286; p. 737.
- Dispensing apparatus. A. Weber, L. Voorsanger, and A. Soller. No. 1,368,348; Nov. 29.
- Dispensing appliance. H. H. Haywood. No. 1,365,689; Jan. 18; v. 282; p. 400.
- Dispensing attachment for cans. P. R. Levi. No. 1,380,662; June 7; v. 287; p. 64.
- Dispensing-can. F. J. Lacina. No. 1,382,200; June 21; v. 287; p. 466.
- Dispensing can or receptacle. F. J. Krogmann. No. 1,376,103; Apr. 26; v. 285; p. 660.
- Dispensing card-case. D. W. Stevenson. No. 1,378,294; May 17; v. 286; p. 475.
- Dispensing container or bottle. F. Adams. No. 1,372,328; Mar. 22; v. 284; p. 658.
- Dispensing device. A. E. Carlson. No. 1,395,795; Nov. 1.
- Dispensing device. F. M. Furber. No. 1,384,127; July 12; v. 288; p. 229.
- Dispensing device. L. W. Luellen. No. 1,365,516; Jan. 11; v. 282; p. 327.
- Dispensing device. S. C. Price. No. 1,370,706; Mar. 8; v. 284; p. 226.
- Dispensing device. I. C. Shalkop. No. 1,395,302; Nov. 1.
- Dispensing device. E. R. Williams. No. 1,392,379; Oct. 4.
- Dispensing-fixture. G. T. Johnson. No. 1,399,432; Dec. 6.
- Dispensing-machine. M. E. Conkling and E. E. Bushell. No. 1,384,687; July 12; v. 288; p. 347.
- Dispensing-machine. W. R. Tuttle. Nos. 1,393,588-9; Oct. 11.
- Dispensing-machine. H. W. Williams. No. 1,375,947; Apr. 26; v. 285; p. 630.
- Dispensing-receptacle. S. Slobodzian and J. Oberleitan. No. 1,365,557; Jan. 11; v. 282; p. 335.
- Dispensing-receptacle and spreader, Combined. P. Neukirchen. No. 1,373,566; Apr. 5; v. 285; p. 37.
- Dispensing-showcase. P. Wosinski. No. 1,379,793; May 31; v. 286; p. 906.
- Dispensing-tank. W. S. Townsend. No. 1,373,686; Apr. 5; v. 285; p. 59.
- Dispensing vessel. W. H. Damon. No. 1,401,763; Dec. 27.
- Dispersoids, Colloid powder and masses therefrom, Manufacture of. H. Plauson. No. 1,392,849; Oct. 4.
- Display and vending case. M. Metzger. No. 1,390,632; Sept. 13; v. 290; p. 308.
- Display apparatus. W. R. Aimes and G. H. T. Schaefer. No. 1,389,177; Aug. 30; v. 289; p. 873.
- Display apparatus. E. W. Bowen and R. Turner. No. 1,387,965; Aug. 16; v. 289; p. 521.
- Display apparatus. C. E. Dellenbarger. No. 1,395,397; Nov. 1.
- Display apparatus. C. C. and G. C. James. No. 1,375,005; Apr. 19; v. 285; p. 417.
- Display apparatus. J. Kehres. No. 1,365,107; Jan. 11; v. 282; p. 248.
- Display apparatus. J. E. Talley and J. W. Thompson. No. 1,393,050; Oct. 11.
- Display apparatus. R. L. Tedesco. No. 1,369,060; Feb. 22; v. 283; p. 569.
- Display apparatus, Advertising. W. R. Aimes. No. 1,368,533; Feb. 15; v. 283; p. 428.
- Display apparatus for stock. L. W. Bell. No. 1,391,933; Sept. 27; v. 290; p. 706.
- Display apparatus, Luminous. L. B. Buchner. No. 1,398,835; Nov. 29.
- Display-box. C. Bashwiner. No. 1,379,240; May 24; v. 286; p. 728.
- Display-box. G. M. Bilger. No. 1,383,375; July 5; v. 288; p. 25.
- Display-box. R. H. Fitz Gerald. No. 1,378,535; May 17; v. 286; p. 521.
- Display-box. I. Goldman and L. Schlesinger. No. 1,367,248; Feb. 1; v. 283; p. 73.
- Display-box. A. J. Kaufmann. No. 1,380,561; June 7; v. 287; p. 45.
- Display-box. B. B. Perrow. No. 1,399,273; Dec. 6.
- Display-card. C. C. Cobb. No. 1,394,537; Oct. 25.
- Display-card. R. E. Grote. No. 1,388,561; Aug. 23; v. 289; p. 695.
- Display-card. A. Josephson. No. 1,395,581; Nov. 1.
- Display-card. W. A. Myers. No. 1,385,923; July 26; v. 288; p. 755.
- Display-cards, Calendar-holder for. M. Harvey. No. 1,368,257; Feb. 15; v. 283; p. 374.
- Display-case, Combination. S. Beskin. No. 1,376,506; May 3; v. 286; p. 24.
- Display-case construction. E. B. Hirsch. No. 1,369,811; Mar. 1; v. 284; p. 11.
- Display-case on a cash-register, Device for supporting a. T. S. Taylor. No. 1,366,848; Jan. 25; v. 282; p. 673.
- Display-case, Sanitary. A. G. Stephens. No. 1,390,000; Sept. 6; v. 290; p. 89.
- Display-clamp. G. Potstada. No. 1,394,788; Oct. 25.
- Display-clip. F. W. Richey. No. 1,390,163; Sept. 6; v. 290; p. 122.
- Display-counter. W. T. Sherer. No. 1,380,161; May 31; v. 286; p. 976.
- Display-counter bracket. A. Cook and C. Greenbaum. No. 1,378,400; May 17; v. 286; p. 495.
- Display device. R. C. Beatty. No. 1,378,934; May 24; v. 286; p. 670.
- Display device. S. M. Benjamin. No. 1,373,992; Apr. 5; v. 285; p. 120.
- Display device. A. G., G. J., and H. B. Drosin. No. 1,371,079; Mar. 8; v. 284; p. 297.
- Display device. F. S. Gee. No. 1,395,982; Nov. 1.
- Display device. W. F. Greenlee. No. 1,367,775; Feb. 8; v. 283; p. 234.
- Display device. S. B. Griffin. No. 1,390,699; Sept. 13; v. 290; p. 321.
- Display device. S. B. Griffin. No. 1,390,700; Sept. 13; v. 290; p. 321.
- Display device. T. C. Hutcheson. No. 1,384,727; July 12; v. 288; p. 354.
- Display device. W. I. Mayer and F. Beagle. No. 1,399,783; Dec. 13.
- Display device. R. M. Mouat. No. 1,401,632; Dec. 27.
- Display device. C. I. Owen. No. 1,385,225; July 19; v. 288; p. 538.
- Display device. S. Sachs. No. 1,391,583; Sept. 20; v. 290; p. 562.
- Display device. C. W. Wadsworth. No. 1,390,736; Sept. 13; v. 290; p. 328.
- Display device. C. W. Wadsworth. No. 1,390,737; Sept. 13; v. 290; p. 328.
- Display device, Advertising. G. M. Lynes. No. 1,386,126; Aug. 2; v. 289; p. 33.
- Display device and forming same. C. B. Kellogg. No. 1,385,834; July 26; v. 288; p. 738.
- Display device, Sample-. J. Davidson. No. 1,398,364; Nov. 29.
- Display-fixture. C. K. Bennett. No. 1,371,464; Mar. 15; v. 284; p. 435.
- Display-fixture. G. M. Morrill. No. 1,387,161; Aug. 9; v. 289; p. 399.
- Display-folder. F. X. List. No. 1,396,224; Nov. 8.
- Display-form. R. H. Cowley. No. 1,377,466; May 10; v. 286; p. 265.
- Display form, Collar-. C. M. Connolly. No. 1,395,557; Nov. 1.
- Display-frame. I. E. Holt. No. 1,378,458; May 17; v. 286; p. 506.
- Display-holder. L. H. Dalton. No. 1,380,534; June 7; v. 287; p. 40.
- Display holder, Merchandise-. C. P. Wykes. No. 1,365,437; Jan. 11; v. 282; p. 312.
- Display-lid. E. Brunhoff. No. 1,379,677; May 31; v. 286; p. 885.
- Display mechanism. E. F. Van Vechten. No. 1,401,379; Dec. 27.
- Display-panel. D. M. Tolton. No. 1,391,349; Sept. 20; v. 290; p. 515.
- Display-plate. T. R. Jacobsen. No. 1,369,436; Feb. 22; v. 283; p. 642.
- Display-rack. G. Bailey and J. P. Neilsen. No. 1,395,239; Oct. 25.
- Display-rack. H. W. Elliott. No. 1,401,057; Dec. 20.
- Display-rack. S. Fresnak. No. 1,365,751; Jan. 18; v. 282; p. 412.
- Display-rack. W. T. Hormes. No. 1,385,375; July 26; v. 288; p. 644.
- Display-rack. L. James. No. 1,367,051; Feb. 1; v. 283; p. 34.
- Display-rack. A. Leet. No. 1,390,969; Sept. 13; v. 290; p. 375.
- Display-rack. A. B. Loeffel. No. 1,378,692; May 17; v. 286; p. 552.
- Display-rack. C. Wagner. No. 1,373,781; Apr. 5; v. 285; p. 77.
- Display-rack. M. H. Wallerstein. No. 1,380,855; June 7; v. 287; p. 102.
- Display-rack. M. H. Wallerstein. No. 1,380,856; June 7; v. 287; p. 102.
- Display-rack. F. S. Walton and R. Schultz. No. 1,387,745; Aug. 16; v. 289; p. 478.
- Display-rack. W. D. Warner. No. 1,364,333; Jan. 4; v. 282; p. 56.
- Display-rack. E. Watson. No. 1,388,010; Aug. 16; v. 289; p. 530.
- Display-rack. E. B. Weston. No. 1,381,607; June 14; v. 287; p. 295.
- Display-rack and holding means. E. E. Bullis. No. 1,379,164; May 24; v. 286; p. 713.
- Display rack, Floral-. T. P. Duff. No. 1,369,089; Feb. 22; v. 283; p. 575.



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- Display-receptacle. T. O. Carman. No. 1,364,245; Jan. 4; v. 282; p. 38.
- Display-receptacle. B. Rosenberg. No. 1,374,953; Apr. 19; v. 285; p. 407.
- Display-shelving. W. C. McFadden. No. 1,372,180; Mar. 22; v. 284; p. 629.
- Display-sign. C. F. Boettcher. No. 1,396,245; Nov. 8.
- Display-stand. R. B. Colonna. No. 1,387,765; Aug. 16; v. 289; p. 482.
- Display-stand. G. W. Day. No. 1,396,027; Nov. 8.
- Display-stand. W. M. and E. Docker. No. 1,385,670; July 26; v. 288; p. 705.
- Display-stand. N. Gates. No. 1,388,033; Aug. 16; v. 289; p. 534.
- Display-stand. A. Halpin. No. 1,369,742; Feb. 22; v. 283; p. 702.
- Display-stand. H. M. Hutchins. No. 1,395,419; Nov. 1.
- Display-stand. C. E. Kaylor. No. 1,401,084; Dec. 20.
- Display-stand. N. Rippenbein. No. 1,400,987; Dec. 20.
- Display-stand. C. G. Sather. No. 1,384,351; July 12; v. 288; p. 276.
- Display-stand. J. Strandens. No. 1,375,026; Apr. 19; v. 285; p. 422.
- Display-stand, Advertising. R. J. Morton. No. 1,388,745; Aug. 23; v. 289; p. 732.
- Display-stand for veils. S. Fuld, L. Traube, and A. Wolff. No. 1,370,105; Mar. 1; v. 284; p. 66.
- Displaying and dispensing device, Combined. W. H. Parks. No. 1,375,169; Apr. 19; v. 285; p. 450.
- Displaying device. Card. D. Inches. No. 1,369,245; Feb. 22; v. 283; p. 605.
- Dissolving, crystallizing, and calcining apparatus. A. Roy. No. 1,369,840; Mar. 1; v. 284; p. 16.
- Distance control and signal device, Long. W. Akemann. No. 1,375,438; Apr. 19; v. 285; p. 501.
- Distance signal and control system, Long. W. Akemann. No. 1,375,437; Apr. 19; v. 285; p. 501.
- Distances, Device for estimating. R. L. Williams. No. 1,396,491; Nov. 8.
- Distancing device. G. F. Blume. No. 1,380,347; June 7; v. 287; p. 5.
- Distillates, Apparatus for condensing and treating. R. Fleming. No. 1,394,987; Oct. 25.
- Distillation. G. F. Rendall. No. 1,376,582; May 3; v. 286; p. 39.
- Distillation, Apparatus for. C. A. Nottingham and C. Tuhey. No. 1,379,876; May 31; v. 286; p. 922.
- Distillation, Destructive. O. F. Stafford. No. 1,380,262; May 31; v. 286; p. 994.
- Distillation, Fractionate. F. Hansgirk. No. 1,398,856; Nov. 29.
- Distillation-furnace. J. N. Wingett. No. 1,384,878; July 19; v. 288; p. 466.
- Distillation, Furnace system for dry. T. M. U. von Post. No. 1,375,943; Apr. 26; v. 285; p. 629.
- Distillation of wood, woody fiber, and similar carbonaceous substances. P. Poore. No. 1,397,181; Nov. 15.
- Distillation process. E. W. Stevens. No. 1,372,465; Mar. 22; v. 284; p. 684.
- Distillation process and apparatus, Fractional. V. T. Gilchrist. No. 1,386,467; Aug. 2; v. 289; p. 98.
- Distillery waste, Treating. A. A. Backhaus. No. 1,396,007; Nov. 8.
- Distillery waste, Treating. A. A. Backhaus and C. Haner, Jr. No. 1,396,006; Nov. 8.
- Distillery waste, Treating. C. Haner, Jr. No. 1,396,368; Nov. 8.
- Distilling apparatus. C. G. Adsit. No. 1,386,484; Aug. 2; v. 289; p. 101.
- Distilling apparatus, Oil. T. J. Ryan. No. 1,397,984; Nov. 22.
- Distilling-column. G. W. Crupe. No. 1,372,649; Mar. 22; v. 284; p. 719.
- Distilling-column. J. Schneible. No. 1,366,956; Feb. 1; v. 283; p. 15.
- Distilling fuel and bituminous rocks, Apparatus for. G. Magri. No. 1,399,267; Dec. 6.
- Distilling kerogen shale, Apparatus for. E. E. Hedges. No. 1,383,205; June 28; v. 287; p. 712.
- Distributor blocks, Means for mounting current. S. C. McKeown. No. 1,371,254; Mar. 15; v. 284; p. 393.
- Distributor-head. J. M. Towle. No. 1,394,051; Oct. 18.
- Distributor structure. A. A. Kent. No. 1,385,625; July 26; v. 288; p. 695.
- Distributors, Attaching means for broadcast. D. R. Holden. No. 1,396,843; Nov. 15.
- Distributing apparatus. P. M. Rainey. No. 1,375,728; Apr. 26; v. 285; p. 588.
- Distributing machine, Concrete. J. F. Robb. No. 1,370,497; Mar. 1; v. 284; p. 141.
- Distributing material, Method and apparatus for. H. F. Smith. No. 1,397,553; Nov. 22.
- Distributing-switch. G. Thompson. No. 1,375,762; Apr. 26; v. 285; p. 594.
- Distribution, Protection of systems of. D. B. Rushmore. No. 1,386,898; Aug. 9; v. 289; p. 258.
- Distribution, System of. W. A. Pressey. No. 1,373,910; Apr. 5; v. 285; p. 103.
- Ditch-digger. J. E. Funk. No. 1,371,752; Mar. 15; v. 284; p. 491.
- Ditch-digging machine. K. J. Nordby. No. 1,374,093; Apr. 5; v. 285; p. 139.
- Ditch-filling machine. O. Lee. No. 1,384,617; July 12; v. 288; p. 331.
- Ditch-filling machine. W. C. Witt. No. 1,386,829; Aug. 9; v. 289; p. 244.
- Ditches, Water-check for. E. F. Bridges and C. K. Ward. No. 1,374,817; Apr. 12; v. 285; p. 319.
- Ditching-machine. E. A. Chattstrom. No. 1,374,488; Apr. 12; v. 285; p. 256.
- Ditching-machine. J. O. Donaldson. No. 1,391,765; Sept. 27; v. 290; p. 672.
- Ditching-machine, Wheeled. G. Kettenton. No. 1,388,266; Aug. 23; v. 289; p. 637.
- Ditching-machines, Grade-indicating device for. J. E. Funk. No. 1,369,235; Feb. 22; v. 283; p. 603.
- Ditching-machines, Grade-maintaining device for. J. E. Funk. No. 1,386,103; Aug. 2; v. 289; p. 28.
- Diver's suit. H. Houdini. No. 1,370,316; Mar. 1; v. 284; p. 106.
- Divider. F. H. Sharpe. No. 1,364,590; Jan. 4; v. 282; p. 104.
- Divider-board. J. H. Kile. No. 1,380,389; June 7; v. 287; p. 12.
- Dividers. R. L. Livingston. No. 1,398,871; Nov. 29.
- Dividers. A. E. Summersille. No. 1,380,269; May 31; v. 286; p. 996.
- Diving and swimming wearing-apparel. M. Kamenos. No. 1,369,669; Feb. 22; v. 283; p. 688.
- Diving apparatus. A. E. Chisholm. No. 1,367,587; Feb. 8; v. 283; p. 198.
- Diving apparatus. Y. Matsumura. No. 1,375,715; Apr. 26; v. 285; p. 586.
- Diving-armor, Flexible joint for. A. P. Marr. No. 1,383,322; July 5; v. 288; p. 13.
- Diving-bell. M. A. White. No. 1,364,337; Jan. 4; v. 282; p. 56.
- Diving-suit. R. de Graff. No. 1,368,786; Feb. 15; v. 283; p. 477.
- Diving-tube. J. W. Haynie. No. 1,385,682; July 26; v. 288; p. 707.
- Dock. P. van Affaire. No. 1,398,825; Nov. 29.
- Dock, Dry-. P. S. Lawton. No. 1,376,345; Apr. 26; v. 285; p. 706.
- Dock, Floating dry-. G. C. Engstrand. No. 1,376,325; Apr. 26; v. 285; p. 703.
- Dock, Lifting-. T. H. Hamilton. No. 1,380,141; May 31; v. 286; p. 972.
- Docking appliance. J. Nieberding. No. 1,390,056; Sept. 6; v. 290; p. 101.
- Document and like files, Binder-case for. A. M. McNeill and W. J. Abbott. No. 1,397,645; Nov. 22.
- Documents, Protecting. J. W. Jones. No. 1,374,208; Apr. 12; v. 285; p. 201.
- Dog-racing amusement. O. P. Smith. No. 1,379,224; May 24; v. 286; p. 725.
- Doily-stretcher. S. A. Snelling and B. M. Saner. No. 1,378,826; May 17; v. 286; p. 577.
- Doll. E. A. Ahler. No. 1,387,224; Aug. 9; v. 289; p. 321.
- Doll. E. M. Goldsmith. No. 1,370,107; Mar. 1; v. 284; p. 66.
- Doll. B. M. McClelland. No. 1,396,766; Nov. 15.
- Doll. A. D. McCrosky. No. 1,395,984; Nov. 1.
- Doll. K. Ono. No. 1,377,623; May 10; v. 286; p. 293.
- Doll. G. H. Parsons. No. 1,396,873; Nov. 15.
- Doll. L. W. Richards. No. 1,384,731; July 12; v. 288; p. 355.
- Doll. H. E. Schoenhut. No. 1,387,317; Aug. 9; v. 289; p. 340.
- Doll. H. E. Schoenhut. No. 1,390,820; Sept. 13; v. 290; p. 345.
- Doll. R. H. Usher. (Reissue.) No. 15,188; Sept. 6; v. 290; p. 140.
- Doll. B. M. Weatherly. No. 1,388,677; Aug. 23; v. 289; p. 718.
- Doll. D. Weiner. No. 1,374,343; Apr. 12; v. 285; p. 227.
- Doll and doll cut-out. M. E. and M. N. Phoebus. No. 1,365,601; Jan. 11; v. 282; p. 344.
- Doll, Dancing. J. C. Keel. No. 1,380,107; May 31; v. 286; p. 966.
- Doll figure. E. G. Thompson. No. 1,392,981; Oct. 11.
- Doll, Jointed rag. G. Goss. No. 1,379,013; May 24; v. 286; p. 685.
- Doll, Mechanical. D. Zaiden. No. 1,382,708; June 28; v. 287; p. 618.
- Doll-model. M. White. No. 1,381,528; June 14; v. 287; p. 280.
- Doll, Rag. F. Barnard. No. 1,399,840; Dec. 13.
- Doll, Swimming. A. L. Fierlein. No. 1,399,855; Dec. 13.
- Doll, Walking. H. H. Coleman. No. 1,396,321; Nov. 8.
- Doll, Wrapped candy. A. M. Porter. No. 1,382,383; June 21; v. 287; p. 501.
- Dolls and other plastic articles, Press for molding. C. J. Priestner. No. 1,368,836; Feb. 15; v. 283; p. 487.
- Doll's eye, Adjustable. A. V. Groupe. No. 1,370,889; Mar. 8; v. 284; p. 260.
- Dolls, Eyes for. I. Marks. No. 1,374,212; Apr. 12; v. 285; p. 202.
- Doll's head and eyes therefor. S. Marcus. No. 1,373,439; Apr. 5; v. 285; p. 11.
- Doll's head and eyes therefor. S. Marcus. No. 1,373,440; Apr. 5; v. 285; p. 12.
- Doll's shoe. A. Brückner. No. 1,369,320; Feb. 22; v. 283; p. 619.



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- Dolls, &c., Walking attachment for. D. Zaiden. No. 1,370,721; Mar. 8; v. 284; p. 229.
- Dolly-bar. A. J. Elias. No. 1,373,606; Apr. 5; v. 285; p. 44.
- Dolly-return device. J. Ditson. No. 1,386,769; Aug. 9; v. 289; p. 231.
- Dome-support. N. L. Carter. No. 1,380,946; June 7; v. 287; p. 119.
- Domestic heater. J. H. Stettner. No. 1,383,671; July 5; v. 288; p. 86.
- Door. D. B. Banks. No. 1,381,958; June 21; v. 287; p. 422.
- Door. F. J. Matchette. No. 1,391,133; Sept. 20; v. 290; p. 471.
- Door. A. Rush. No. 1,382,933; June 28; v. 287; p. 660.
- Door. J. Soss. No. 1,393,047; Oct. 11.
- Door-actuating device, Double-. O. P. Overlien. No. 1,373,567; Apr. 5; v. 285; p. 37.
- Door-adjuster. A. Walus. No. 1,395,539; Nov. 1.
- Door, Adjustable-link. J. E. Ogden. No. 1,378,127; May 17; v. 286; p. 444.
- Door and gate actuating mechanism. V. Linder. No. 1,391,685; Sept. 27; v. 290; p. 656.
- Door and gate brace. H. S. Carle. No. 1,393,611; Oct. 11.
- Door and gate controlling device. C. L. Wolfe and J. A. Faurot. No. 1,367,340; Feb. 1; v. 283; p. 91.
- Door and gate device, Automatically-locked metering. J. A. Ruth. No. 1,390,725; Sept. 15; v. 290; p. 326.
- Door and partition, Metal. J. F. Copland. No. 1,366,060; Jan. 18; v. 282; p. 473.
- Door and window adjuster. E. R. Subroyar. No. 1,386,740; Aug. 9; v. 289; p. 225.
- Door and window construction. J. G. Brosius. No. 1,391,608; Sept. 20; v. 290; p. 567.
- Door and window screen. V. L. Diven. No. 1,379,001; May 24; v. 286; p. 682.
- Door attachment. U. F. Durner. No. 1,369,270; Feb. 22; v. 283; p. 610.
- Door attachment. F. O. Swenson. No. 1,386,541; Aug. 2; v. 289; p. 112.
- Door, Automatic. J. E. Specker. No. 1,390,174; Sept. 6; v. 290; p. 124.
- Door, Automatic garage-. H. Groves. No. 1,394,728; Oct. 25.
- Door, Automatic mine-. N. K. Bowman. No. 1,374,547; Apr. 12; v. 285; p. 267.
- Door-bell and burglar-alarm, Combined. M. Goray. No. 1,382,904; June 28; v. 287; p. 655.
- Door-bolt. H. A. Becker. No. 1,374,275; Apr. 12; v. 285; p. 214.
- Door-bolt. C. Hoffman. No. 1,388,712; Aug. 23; v. 289; p. 725.
- Door-bolt. A. H. Mott. No. 1,377,091; May 3; v. 286; p. 135.
- Door-buffer. J. H. Harward. No. 1,385,448; July 26; v. 288; p. 659.
- Door-buffer. H. N. Sorenson. No. 1,399,164; Dec. 6.
- Door, Bulkhead-. O. Stuart. No. 1,395,777; Nov. 1.
- Door, Cab-. K. S. Baxter. No. 1,390,483; Sept. 13; v. 290; p. 276.
- Door-catch. E. B. and A. Kinsey. No. 1,376,101; Apr. 26; v. 285; p. 660.
- Door-catch. I. U. Minehart. No. 1,374,215; Apr. 12; v. 285; p. 203.
- Door-catch. R. L. Thompson. No. 1,391,920; Sept. 27; v. 290; p. 703.
- Door-catch. E. F. Wanous. No. 1,381,372; June 14; v. 287; p. 251.
- Door-check. E. Bang. No. 1,373,646; Apr. 5; v. 285; p. 51.
- Door-check. A. J. Eisman. No. 1,398,010; Nov. 22.
- Door-check. W. A. Geiger. No. 1,397,206; Nov. 15.
- Door-check. O. Grisell. No. 1,364,932; Jan. 11; v. 282; p. 215.
- Door-checking device. N. D. Munn. No. 1,386,196; Aug. 2; v. 289; p. 47.
- Door-checking device. J. O. Naslin. No. 1,399,145; Dec. 6.
- Door-closer. T. E. Collins. No. 1,398,317; Nov. 29.
- Door-closer. J. C. Wood. No. 1,400,125; Dec. 13.
- Door closer and check. W. J. Bryon. No. 1,364,830; Jan. 4; v. 282; p. 151.
- Door closer and check. C. Enache. No. 1,398,504; Nov. 29.
- Door-closer, Liquid. W. D. Putnam. No. 1,383,339; July 5; v. 288; p. 17.
- Door-closing device, Automatic. H. R. Matlick. No. 1,367,414; Feb. 1; v. 283; p. 106.
- Door, Collapsible. L. A. Riggs. No. 1,381,744; June 14; v. 287; p. 322.
- Door, Collapsible grain-. B. F. Graham. No. 1,384,190; July 12; v. 288; p. 242.
- Door construction. W. Gross. No. 1,376,535; May 3; v. 286; p. 29.
- Door construction, Sectional-. P. J. Myers. No. 1,366,823; Jan. 25; v. 282; p. 608.
- Door-control system. L. P. Hynes. No. 1,396,757; Nov. 15.
- Door-controlling device. L. C. Norton. No. 1,385,389; July 26; v. 288; p. 646.
- Door, Electrically-operated. L. M. Norris. No. 1,365,266; Jan. 11; v. 282; p. 279.
- Door, Elevator-. E. H. McCloud. No. 1,401,418; Dec. 27; v. 287; p. 231.
- Door-fastener. J. G. Fraser. No. 1,385,125; July 19; v. 288; p. 518.
- Door-fastener. O. Huffman. No. 1,387,719; Aug. 16; v. 289; p. 473.
- Door-fastener. F. Knowlson and J. H. Stevenson. No. 1,370,976; Mar. 8; v. 284; p. 274.
- Door-fastener. L. L. Swan. No. 1,376,233; Apr. 26; v. 285; p. 684.
- Door-fastener. A. Reznicek. No. 1,371,518; Mar. 15; v. 284; p. 446.
- Door fastener, Box-car-. J. G. Wood. No. 1,364,970; Jan. 11; v. 282; p. 222.
- Door fastener, Grain-. C. Wing. No. 1,384,794; July 19; v. 288; p. 449.
- Door-fastener, Safety. J. M. Reed. No. 1,400,315; Dec. 13.
- Door-fastening. R. N. Clanin. No. 1,385,814; July 26; v. 288; p. 734.
- Door-fastening. P. Steurwald. No. 1,399,167; Dec. 6.
- Door-fastening mechanism. F. Knowlson and J. H. Stevenson. No. 1,370,975; Mar. 8; v. 284; p. 277.
- Door fastening, Sliding-. W. H. Burns. No. 1,381,891; June 14; v. 287; p. 350.
- Door, Flexible. A. E. Fogelquist. No. 1,396,414; Nov. 8.
- Door, Folding. E. J. G. Phillips. No. 1,377,626; May 10; v. 286; p. 294.
- Door, Grain-. D. D. Campbell. No. 1,371,858; Mar. 15; v. 284; p. 511.
- Door, Grain-. T. Campbell. No. 1,379,081; May 24; v. 286; p. 697.
- Door-handle. W. C. Devereaux. No. 1,367,539; Feb. 8; v. 283; p. 189.
- Door-hanger. E. Hickok. No. 1,379,565; May 24; v. 286; p. 789.
- Door-hanger. B. S. Jordan. No. 1,384,763; July 19; v. 288; p. 443.
- Door-hanger. A. L. Kern. No. 1,382,365; June 21; v. 287; p. 498.
- Door-hanger. L. Kules. No. 1,365,594; Jan. 11; v. 282; p. 343.
- Door-hanger. L. Kules. No. 1,377,135; May 3; v. 286; p. 144.
- Door-hanger. L. Kutes. No. 1,384,325; July 12; v. 288; p. 270.
- Door-hanger. A. J. Spicer. No. 1,364,592; Jan. 4; v. 282; p. 105.
- Door-hanger track and housing. C. R. Martin. No. 1,380,668; June 7; v. 287; p. 65.
- Door-hinge. F. J. W. Barrow. No. 1,400,788; Dec. 20.
- Door-hinge. F. J. Korb. No. 1,382,654; June 28; v. 287; p. 607.
- Door-holder. H. F. Cordes. No. 1,399,467; Dec. 6.
- Door-holder. C. P. and F. E. Howard. No. 1,390,786; Sept. 13; v. 290; p. 338.
- Door-holder. W. H. Lawrence. No. 1,388,272; Aug. 23; v. 289; p. 639.
- Door-holders and the like, Adjustable telescopic connection for. N. B. Hurd. No. 1,365,829; Jan. 18; v. 282; p. 428.
- Door-holders and the like, Adjustable telescopic connection for. N. B. Hurd. No. 1,365,830; Jan. 18; v. 282; p. 428.
- Door-hook. L. Randazzo. No. 1,388,970; Aug. 30; v. 289; p. 831.
- Door hook or fastener. R. R. Myers. No. 1,369,699; Feb. 22; v. 283; p. 693.
- Door-interlock. E. B. Thurston. No. 1,374,339; Apr. 12; v. 285; p. 226.
- Door-iron. F. J. Shively. No. 1,373,774; Apr. 5; v. 285; p. 76.
- Door-latch. H. N. Brawner, Jr. No. 1,374,053; Apr. 5; v. 285; p. 131.
- Door-latch. A. W. Holt. No. 1,387,888; Aug. 16; v. 289; p. 506.
- Door-latch. A. McCulloch. No. 1,395,688; Nov. 1.
- Door-latch. H. McVittie. No. 1,384,620; July 12; v. 288; p. 332.
- Door latch, Barn-. W. A. Graybeal. No. 1,364,749; Jan. 4; v. 282; p. 135.
- Door-lock. W. S. Brainard. No. 1,397,074; Nov. 15.
- Door-lock. G. Erne. No. 1,398,369; Nov. 29.
- Door-lock. W. A. Lurie. No. 1,401,166; Dec. 27.
- Door-lock. C. G. Palmer. No. 1,391,005; Sept. 20; v. 290; p. 445.
- Door-lock. M. Sarbig. No. 1,378,622; May 17; v. 286; p. 538.
- Door-lock. E. G. Simpson. No. 1,401,369; Dec. 27.
- Door-lock. A. Skóra. No. 1,379,839; May 31; v. 286; p. 915.
- Door lock, Automobile-. W. F. Koeller. No. 1,372,300; Mar. 22; v. 284; p. 652.
- Door-lock, Detachable inside. E. H. Arledge. No. 1,390,009; Sept. 6; v. 290; p. 91.
- Door-lock guard. C. M. Hatcher. No. 1,367,813; Feb. 8; v. 283; p. 241.
- Door-locking device. A. L. Davenport and A. J. James. No. 1,374,908; Apr. 19; v. 285; p. 399.
- Door-locking mechanism. A. D. Sarra. No. 1,399,886; Dec. 13.
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- Door, Mill-type. J. W. Orrock. No. 1,389,211; Aug. 30; v. 289; p. 879.
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- Door-opener, Automatic. C. F. Young. No. 1,367,447; Feb. 1; v. 283; p. 112.
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- Door opening and closing device. G. C. Cirac. No. 1,394,278; Oct. 18.
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- Door-opening device, Draft. R. B. Moon. No. 1,382,797; June 28; v. 287; p. 635.
- Door-opening mechanism. J. Linville. No. 1,379,456; May 24; v. 286; p. 768.
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- Door-operating means, Automatic. J. C. Bergen. No. 1,388,400; Aug. 23; v. 289; p. 665.
- Door-operating mechanism. C. Albrecht, Jr. No. 1,366,236; Jan. 18; v. 282; p. 508.
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- Door-operating mechanism. H. S. Hart. No. 1,380,377; June 7; v. 287; p. 10.
- Door-operating mechanism. D. Hindahl. No. 1,386,406; Aug. 2; v. 289; p. 87.
- Door-operating mechanism. W. J. Hosceit. No. 1,388,950; Aug. 30; v. 289; p. 827.
- Door-operating mechanism. H. A. Johnson and F. T. Etheredge. No. 1,375,219; Apr. 19; v. 285; p. 459.
- Door-operating mechanism. J. O. Nelkirk. No. 1,374,516; Apr. 12; v. 285; p. 262.
- Door-operating mechanism. J. M. Pombo. No. 1,383,851; July 5; v. 288; p. 123.
- Door-operating mechanism. A. Traube. No. 1,364,595; Jan. 4; v. 282; p. 105.
- Door-operating mechanism, Discharge. H. E. Kaup and R. J. Wilcox. No. 1,390,357; Sept. 13; v. 290; p. 251.
- Door-operating mechanism, Dump. H. S. Hart. No. 1,368,720; Feb. 15; v. 283; p. 464.
- Door-operating mechanism, Foot-pedal for pneumatic. H. H. Clark and L. Schaumburger. No. 1,401,875; Dec. 27.
- Door-operating mechanism, Hatchway. C. L. Colby. No. 1,375,827; Apr. 26; v. 285; p. 606.
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- Door or shutter. E. H. McCloud. No. 1,386,192; Aug. 2; v. 289; p. 46.
- Door or window frame. S. S. Colt. No. 1,369,620; Feb. 22; v. 283; p. 678.
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- Door-panel. J. Regenstein. No. 1,387,312; Aug. 9; v. 289; p. 339.
- Door, Refrigerator. A. C. Davis. No. 1,389,423; Aug. 30; v. 289; p. 921.
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- Door, Roof. P. Hogstrom. No. 1,380,207; May 31; v. 286; p. 984.
- Door-securing device. F. T. Rodgers. No. 1,373,354; Mar. 29; v. 284; p. 900.
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- Door, Sheet-metal. H. R. Gogay. No. 1,391,950; Sept. 27; v. 290; p. 910.
- Door-silencer. G. R. Damiani. No. 1,396,167; Nov. 8.
- Door, Silo. G. A. Graef. No. 1,368,137; Feb. 8; v. 283; p. 302.
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- Door, Sliding. W. H. Parker and G. L. Smith. No. 1,394,216; Oct. 18.
- Door-spring. T. J. Moore. No. 1,399,642; Dec. 6.
- Door-stop. N. Crank. No. 1,371,473; Mar. 15; v. 284; p. 437.
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- Door-stop. G. G. O. Marichal. No. 1,387,795; Aug. 16; v. 289; p. 488.
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- Door structure, Folding. G. E. Mather. No. 1,396,769; Nov. 15.
- Door structure, Folding. H. W. Pugh. No. 1,396,780; Nov. 15.
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- Doors, Catch for screen. L. M. Pratt. No. 1,379,040; May 24; v. 286; p. 690.
- Doors, Device for holding. L. Bernhard. No. 1,381,696; June 14; v. 287; p. 313.
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- Doors, drawers, &c., Mechanism for sliding. H. E. Kjölseth. No. 1,386,119; Aug. 2; v. 289; p. 31.
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- Doors, Locking mechanism for elevator. B. Wexler. No. 1,381,262; June 14; v. 287; p. 231.
- Doors, Means for operating elevator. A. Rush. No. 1,372,090; Mar. 22; v. 284; p. 611.
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- Doors, Operating mechanism for exit. W. B. Bolles. No. 1,383,974; July 5; v. 288; p. 148.
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- Doors, Releasing device for poultry-house. R. L. Bennington. No. 1,398,829; Nov. 29.
- Doors, Safety-catch for car. A. H. MacMinn and W. H. Graham. No. 1,379,997; May 31; v. 286; p. 944.
- Doors, Safety-lock for. H. L. Kless. No. 1,381,999; June 21; v. 287; p. 429.
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- Doors, Weather-strip for. H. E. Brice. No. 1,381,963; June 21; v. 287; p. 423.
- Doors, windows, &c., Lock for. B. Singer. No. 1,399,897; Dec. 13.
- Doors with door-openers, Trackage for ceiling type of. E. Lovejoy. No. 1,378,123; May 17; v. 286; p. 944.
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- Double bumper-bar. L. P. Halladay. No. 1,395,045; Oct. 25.
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- Double tongue. J. S. Carter. No. 1,388,798; Aug. 23; v. 289; p. 742.
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- Drawer-slide. J. G. Wright. No. 1,396,084; Nov. 8.
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Drawing-board table. F. O. Weydell. No. 1,373,473; Apr. 5; v. 285; p. 18.  
Drawing-boards, Attachment for. C. F. Dieckmann. No. 1,398,090; Nov. 22.  
Drawing implement. E. Corbin. No. 1,381,971; June 21; v. 287; p. 424.  
Drawing instrument. A. B. Doggett. No. 1,401,501; Dec. 27.  
Drawing instrument. H. L. Read. No. 1,379,124; May 24; v. 286; p. 706.  
Drawing-pad device. H. P. Jones. No. 1,376,098; Apr. 26; v. 285; p. 659.  
Drawing-press. G. M. Smith. No. 1,373,571; Apr. 5; v. 285; p. 38.  
Drawing-press. R. S. Smith. No. 1,368,366; Feb. 15; v. 283; p. 395.  
Drawing-press. R. S. Smith, B. T. Andren, and H. Miller. No. 1,373,572; Apr. 5; v. 285; p. 38.  
Drawing sheet-glass. H. G. Slingluff. No. 1,376,975; May 3; v. 286; p. 114.  
Drawknife. E. Smith. No. 1,376,651; May 3; v. 286; p. 51.  
Dredge. M. Evans. No. 1,398,131; Nov. 22.  
Dredge, Caisson-. H. C. Glick. No. 1,380,203; May 31; v. 286; p. 983.  
Dredge-frame bushing. W. W. Swayze, Jr. No. 1,398,049; Nov. 22.  
Dredge, Submarine. J. N. Dawson. No. 1,370,096; Mar. 1; v. 284; p. 64.  
Dredge, Suction-. O. and C. Frühling. No. 1,393,680; Oct. 11.  
Dredges, Clay-disintegrating machine for sluice-box. W. Telford and R. J. McLean. No. 1,377,034; May 3; v. 286; p. 125.  
Dredging system. C. J. Baer. No. 1,399,286; Dec. 6.  
Dress. T. Baxter. No. 1,364,232; Jan. 4; v. 282; p. 36.  
Dress-fasteners, Device for feeding the wire in machines for production. K. G. Blomberg and B. A. Pettersson. No. 1,376,668; May 3; v. 286; p. 54.  
Dress-fasteners, Machine for producing spring. K. G. Blomberg and B. A. Pettersson. Nos. 1,395,899-900; Nov. 1.  
Dress-form, Adjustable and collapsible. A. D. Bailey. No. 1,376,502; May 3; v. 286; p. 23.  
Dress, Lady's house-. J. Torchia. No. 1,365,749; Jan. 18; v. 282; p. 412.  
Dress-suit cases, &c., Strapping for. P. W. Post. No. 1,397,016; Nov. 15.  
Dressing and dyeing moleskins. H. Gabbe. No. 1,384,446; July 12; v. 288; p. 296.  
Dressing-block. G. A. Montgomery. No. 1,396,340; Nov. 8.  
Drier: *See*—  
    Brick-drier. Hair-drier.  
    Clothes-drier. Laundry-drier.  
    Concentrate-drier. Print-drier.  
    Fruit-drier. Pulp-drier.  
    Grain-drier. Steam-drier.  
Drier. E. B. Ayers. No. 1,376,244; Apr. 26; v. 285; p. 687.  
Drier. E. B. Ayres. No. 1,388,790; Aug. 23; v. 289; p. 741.  
Drier. F. Balzer. No. 1,380,343; June 7; v. 287; p. 4.  
Drier. W. M. Brownell. No. 1,378,808; May 17; v. 286; p. 574.  
Drier. W. Cameron. No. 1,390,338; Sept. 13; v. 290; p. 248.  
Drier. P. G. Garza. No. 1,384,906; July 19; v. 288; p. 491.  
Drier. W. B. Hardy. No. 1,367,658; Feb. 8; v. 283; p. 211.  
Drier. F. T. Johnson. No. 1,397,100; Nov. 15.  
Drier. W. E. Petty. No. 1,387,168; Aug. 9; v. 289; p. 311.  
Drier. W. F. Schaller. No. 1,373,767; Apr. 5; v. 285; p. 75.  
Drier. W. M. Schwartz. No. 1,377,793; May 10; v. 286; p. 327.  
Drier. W. J. Warrington. No. 1,377,644; May 10; v. 286; p. 297.  
Drier and cleaner, Charcoal. T. Sarockin and J. Magiolda. No. 1,392,225; Sept. 27; v. 290; p. 765.  
Drier and kiln, Superposed. W. S. Kupfer. No. 1,369,285; Feb. 22; v. 283; p. 613.  
Drier, cooler, and similar device. G. H. Fraser. No. 1,378,407; May 17; v. 286; p. 496.  
Driers, Method of and apparatus for recovering heat from. J. O. Ross. No. 1,365,790; Jan. 18; v. 282; p. 421.  
Driers, Process in direct-action. I. M. Justice. No. 1,393,788; Oct. 18.  
Dry battery. B. H. Teitelbaum. No. 1,366,298; Jan. 18; v. 282; p. 520.  
Dry-battery cells, Recovering components of exhausted. H. A. Knabe. No. 1,366,082; Jan. 18; v. 282; p. 478.  
Dry cell. W. Balderston. No. 1,380,034; May 31; v. 286; p. 952.  
Dry cell. R. C. Benner and H. F. French. No. 1,375,202; Apr. 19; v. 285; p. 456.  
Dry cell. S. E. Gertler. No. 1,390,606; Sept. 13; v. 290; p. 320.  
Dry cell. C. Hambacchen. No. 1,375,632; Apr. 19; v. 285; p. 538.  
Dry cell. H. de Olaneta. No. 1,388,990; Aug. 30; v. 289; p. 835.  
Dry-cell battery. H. M. Koretzky and B. H. Teitelbaum. No. 1,366,191; Jan. 18; v. 282; p. 498.  
Dry-cell electric battery. J. E. Peavey. No. 1,389,691; Sept. 6; v. 290; p. 26.  
Dry-cell material and manufacture. O. E. Ruhoff. No. 1,391,211; Sept. 20; v. 290; p. 487.  
Dry-cell-tamping apparatus. H. T. Lang. No. 1,396,642; Nov. 8.  
Dry cells, Applying binding-posts to. J. C. Gillette. No. 1,385,783; July 26; v. 288; p. 728.  
Dry-cleaning apparatus. A. T. Newman. No. 1,386,647; Aug. 9; v. 289; p. 206.  
Dry-dock, Adjustable. A. C. Beckert. No. 1,372,394; Mar. 22; v. 284; p. 670.  
Dry-kiln. J. F. Hirt. No. 1,385,451; July 26; v. 288; p. 659.  
Dry pan. D. Brown. No. 1,390,235; Sept. 6; v. 290; p. 135.  
Drying apparatus. B. R. Andrews. No. 1,373,396; Apr. 5; v. 285; p. 3.  
Drying apparatus. E. B. Ayres and H. Bogaty. No. 1,393,003; Oct. 11.  
Drying apparatus. C. W. Cass and W. L. Baxter. No. 1,372,337; Mar. 22; v. 284; p. 659.  
Drying apparatus. A. Delkin. No. 1,371,199; Mar. 8; v. 284; p. 319.  
Drying apparatus. T. Izumi. No. 1,372,352; Mar. 22; v. 284; p. 662.  
Drying apparatus. H. B. Lowden. No. 1,377,896; May 10; v. 286; p. 347.  
Drying apparatus. O. Müller. No. 1,364,402; Jan. 4; v. 282; p. 69.  
Drying apparatus. E. Savy. No. 1,381,436; June 14; v. 287; p. 263.  
Drying apparatus. Z. Yamamoto. No. 1,372,585; Mar. 22; v. 284; p. 707.  
Drying device. G. Stevenson. No. 1,399,903; Dec. 13.  
Dyeing and apparatus therefor. B. F. Touchstone, T. E. Gardner, J. A. Bangle, D. M. Sullivan, and J. E. Hardin. No. 1,399,230; Dec. 6.  
Drying finely-divided materials. H. F. Chappell. No. 1,375,080; Apr. 19; v. 285; p. 433.  
Drying-form. E. M. Witherell. No. 1,373,694; Apr. 5; v. 285; p. 61.  
Drying hay, grain, or the like, Apparatus for. J. G. Boswell. No. 1,370,513; Mar. 8; v. 284; p. 188.  
Drying-kiln. S. E. Cornish. No. 1,376,319; Apr. 26; v. 285; p. 701.  
Drying-machine. T. Allsop and W. W. Sibson. No. 1,374,709; Apr. 12; v. 285; p. 298.  
Drying-machine. T. Allsop and W. W. Sibson. No. 1,383,053; June 28; v. 287; p. 683.  
Drying-machine. B. A. Parkes. No. 1,379,932; May 31; v. 286; p. 932.  
Drying machine, Cylinder-. J. M. McIntyre. No. 1,383,553; July 5; v. 288; p. 61.  
Drying-machines, Hood-insulating means for. H. T. Baker. No. 1,397,309; Nov. 15.  
Drying material containing liquid, Apparatus for. G. Schjelderup. No. 1,391,510; Sept. 20; v. 290; p. 548.  
Drying materials, especially leather, by means of gases, Apparatus for. J. L. Fairrie. No. 1,371,083; Mar. 8; v. 284; p. 298.  
Drying materials, Process and apparatus for. E. M. Bassler. No. 1,374,874; Apr. 12; v. 285; p. 330.  
Drying molds. T. P. Anthony. No. 1,386,593; Aug. 9; v. 289; p. 195.  
Drying plant. P. Barducci. No. 1,368,537; Feb. 15; v. 283; p. 429.  
Drying plant. P. Barducci. No. 1,381,054; June 7; v. 287; p. 140.  
Drift-compensating device. C. G. Hall. No. 1,385,825; July 26; v. 288; p. 736.  
Drill: *See*—  
    Air-drill. Mine-drill.  
    Anchor-shell drill. Miner's drill.  
    Bit-drill. Multiple-stage rotary drill.  
    Boring-drill. Pneumatic drill.  
    Breast-drill. Radial drill.  
    Coal-drill. Rail-drill.  
    Expansion-drill. Rock-drill.  
    Grain-drill. Rotary boring-drill.  
    Grinder-drill. Rotary-earth-boring drill.  
    Hammer-drill. Sample-taking drill.  
    Independent feed-rail drill. Twist-drill.  
    Lens-drill. Universal drill.  
    Metal drill. Well-drill.  
Drill. J. R. Agassiz. No. 1,400,132; Dec. 13.  
Drill. C. R. Barry and M. L. McClelland. No. 1,395,081; Oct. 25.  
Drill. H. Bernay. No. 1,375,997; Apr. 26; v. 285; p. 639.  
Drill. H. Bernay. No. 1,384,297; July 12; v. 288; p. 264.  
Drill. H. Bernay. No. 1,388,792; Aug. 23; v. 289; p. 741.  
Drill. R. Caverly. No. 1,395,091; Oct. 25.  
Drill. G. Constantinesco. No. 1,372,942; Mar. 29; v. 284; p. 819.  
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- Drill. A. L. Hawkesworth. No. 1,380,554; June 7; v. 287; p. 44.
- Drill. H. J. Kimmman. No. 1,385,458; July 26; v. 288; p. 661.
- Drill. R. W. Lewis. No. 1,387,994; Aug. 16; v. 289; p. 527.
- Drill. J. F. Murray. No. 1,401,353; Dec. 27.
- Drill. G. E. Rohmer. No. 1,380,682; June 7; v. 287; p. 68.
- Drill. W. H. Swisher. No. 1,372,257; Mar. 22; v. 284; p. 644.
- Drill. M. Tanenbaum. No. 1,398,814; Nov. 29.
- Drill and under-reamer. J. C. Stokes. No. 1,379,483; May 24; v. 286; p. 774.
- Drill and underreamer, Combined. W. T. S. Warner. No. 1,372,379; Mar. 22; v. 284; p. 667.
- Drill, Angular. P. F. Holmgren. No. 1,387,600; Aug. 16; v. 289; p. 449.
- Drill-bit. P. W. Smith, J. J. Bookout, and E. W. Monce. No. 1,364,956; Jan. 11; v. 282; p. 217.
- Drill-block. H. Faltermayer. No. 1,396,509; Nov. 8.
- Drill-boxings, Supporting-chain for. J. H. Wenzlick. No. 1,377,296; May 10; v. 286; p. 231.
- Drill-chuck. G. A. Englund. No. 1,369,412; Feb. 22; v. 283; p. 637.
- Drill-chuck. M. J. Logan. No. 1,376,384; Apr. 26; v. 285; p. 713.
- Drill-chuck. J. H. Phillips. No. 1,392,702; Oct. 4.
- Drill-chuck. H. B. Shreve. No. 1,385,501; July 26; v. 288; p. 670.
- Drill, Coal-. J. Paszko. No. 1,376,224; Apr. 26; p. 285; p. 683.
- Drill-column. R. P. Saffold. No. 1,380,255; May 31; v. 286; p. 993.
- Drill extension. R. Del Porto. No. 1,376,139; Apr. 26; v. 285; p. 667.
- Drill feed mechanism, Unitary regulating and controlling means for. H. I. Stage. No. 1,378,491; May 17; v. 286; p. 512.
- Drill-grinder. J. C. Hinz. No. 1,388,039; Aug. 16; v. 289; p. 535.
- Drill-head. J. F. Buhr. No. 1,394,709; Oct. 25.
- Drill-head. C. E. Reed. (Reissue.) No. 15,126; June 14; v. 287; p. 352.
- Drill-holder. H. W. Lightner. No. 1,382,003; June 21; v. 287; p. 430.
- Drill-holder. J. Spanell. No. 1,390,731; Sept. 13; v. 290; p. 327.
- Drill-holder. A. Williams. No. 1,391,034; Sept. 20; v. 290; p. 451.
- Drill-holder, Miner's. C. Devenish. No. 1,385,523; July 26; v. 288; p. 674.
- Drill-hole shooting-plug. E. W. Greiner. No. 1,385,943; July 26; v. 288; p. 759.
- Drill-holes in rock, Means for controlling the direction of cutting. O. Hall and V. P. Row. No. 1,380,954; June 7; v. 287; p. 121.
- Drill machine, Multiple-. W. Wetsel. No. 1,366,044; Jan. 18; v. 282; p. 470.
- Drill or tap holder. P. Sauve. No. 1,394,795; Oct. 25.
- Drill-parallel. W. Stark. No. 1,387,329; Aug. 9; v. 289; p. 343.
- Drill, Portable radial. E. G. Lindhe. No. 1,395,194; Oct. 25.
- Drill-press. A. J. Jacques. No. 1,380,912; June 7; v. 287; p. 113.
- Drill-press-controlling means, Multiple-. M. Balcker. No. 1,401,388; Dec. 27.
- Drill-puller. F. Seder. No. 1,365,857; Jan. 18; v. 282; p. 434.
- Drill, Rock-. A. Alford. No. 1,387,447; Aug. 16; v. 289; p. 417.
- Drill-sharpener. J. B. Gorman and J. A. Fertig. No. 1,389,501; Aug. 30; v. 289; p. 937.
- Drill-slotter. E. J. Allen. No. 1,367,680; Feb. 8; v. 283; p. 215.
- Drill-steel retainer. W. A. Smith. No. 1,383,434; July 5; v. 288; p. 37.
- Drill-steels, Pinning-out machine for. W. A. Smith. No. 1,379,225; May 24; v. 286; p. 725.
- Drill-steels, Pinning-out machine for. R. H. Wilhelm. No. 1,370,251; Mar. 1; v. 284; p. 94.
- Drill-stem coupling. W. J. Harkness. No. 1,379,980; May 31; v. 286; p. 941.
- Drill-table mechanism. W. T. Sears. No. 1,376,168; Apr. 26; v. 285; p. 672.
- Drill tang and socket. S. M. Bellringer. No. 1,374,631; Apr. 12; v. 285; p. 284.
- Drill-tube. P. Boyd and A. M. Saunders. No. 1,364,478; Jan. 4; v. 282; p. 84.
- Drills, Automatic valve for independent-rotation. W. A. Smith. No. 1,372,914; Mar. 29; v. 284; p. 814.
- Drills, Chuck for taper and straight shank. B. Parmenter. No. 1,398,304; Nov. 29.
- Drills, Double core-barrel for core-. C. C. Hansen. No. 1,383,939; July 5; v. 288; p. 141.
- Drills, Exhaust-valve for hammer-. L. C. Bayles. No. 1,371,721; Mar. 15; v. 284; p. 485.
- Drills, Front head for rock-. L. C. Bayles. No. 1,393,072; Oct. 11.
- Drills, Making. J. J. Kunzer. No. 1,379,994; May 31; v. 286; p. 944.
- Drills, Making. J. J. Kunzer. No. 1,379,995; May 31; v. 286; p. 944.
- Drills, Making. C. P. Wineman. No. 1,379,070; May 24; v. 286; p. 695.
- Drills, Safety device for. H. V. Johnson. No. 1,377,487; May 10; v. 286; p. 269.
- Drills, Support for rotating stope-. F. M. Slater. No. 1,382,325; June 21; v. 287; p. 490.
- Drills, Throttle-valve for. L. C. Bayles and F. M. Slater. No. 1,373,853; Apr. 5; v. 285; p. 92.
- Drills, Throttle-valve for. W. A. Smith. No. 1,370,061; Mar. 1; v. 284; p. 58.
- Drills, Tool-retainer for hammer-. R. H. Wilhelm. No. 1,375,433; Apr. 19; v. 285; p. 500.
- Drilling and boring operations, Jig for use in. J. H. P. Walker. No. 1,372,378; Mar. 22; v. 284; p. 667.
- Drilling and other machines, Adjustable work-carrying table for. G. F. Mort. No. 1,397,771; Nov. 22.
- Drilling apparatus. B. Granville. No. 1,367,042; Feb. 1; v. 283; p. 32.
- Drilling apparatus. W. B. Reed and W. Hepler. No. 1,378,056; May 17; v. 286; p. 430.
- Drilling apparatus. G. G. Reeves. No. 1,395,059; Oct. 25.
- Drilling device, Well-. P. W. Smith and J. J. Bookhout. No. 1,370,492; Mar. 1; v. 284; p. 140.
- Drilling-jig. J. F. Fetterly. No. 1,389,569; Aug. 30; v. 289; p. 950.
- Drilling-machine. G. K. Atkinson. No. 1,399,599; Dec. 6.
- Drilling-machine. W. C. Dyer. No. 1,376,084; Apr. 26; v. 285; p. 656.
- Drilling-machine. N. D. Levin. No. 1,374,590; Apr. 12; v. 285; p. 276.
- Drilling-machine. O. D. Norman. No. 1,376,028; Apr. 26; v. 285; p. 646.
- Drilling-machine. R. R. Sanderson. No. 1,377,280; May 10; v. 286; p. 228.
- Drilling-machine. W. T. Sears. No. 1,368,294; Feb. 15; v. 283; p. 381.
- Drilling-machine. W. T. Sears. No. 1,372,252; Mar. 22; v. 284; p. 643.
- Drilling-machine. I. H. Wright. No. 1,385,293; July 19; v. 288; p. 551.
- Drilling-machine, Air. A. A. Klein. No. 1,366,125; Jan. 18; v. 282; p. 486.
- Drilling-machine, Automatic. E. R. Barany. No. 1,384,585; July 12; v. 288; p. 324.
- Drilling machine, Automatic. E. J. Kingsbury. No. 1,379,765; May 31; v. 286; p. 900.
- Drilling-machine, Multiple-spindle. W. F. McCarty. No. 1,382,434; June 21; v. 287; p. 512.
- Drilling-machine, Pneumatic. J. W. Tierney and F. Hills. No. 1,393,852; Oct. 18.
- Drilling-machine, Radial. W. T. Sears. No. 1,365,009; Jan. 11; v. 282; p. 230.
- Drilling machine, Rock-. I. Böhn. No. 1,369,609; Feb. 22; v. 283; p. 676.
- Drilling-machine, Rotary. E. E. Greve. No. 1,371,478; Mar. 15; v. 284; p. 438.
- Drilling-machines, Adjustable belt-guide for. I. H. Wright. No. 1,380,623; June 7; v. 287; p. 56.
- Drilling-machines, &c., Belt-drive mechanism for. J. F. Mirrieles. No. 1,388,876; Aug. 30; v. 289; p. 812.
- Drilling-machines, Drive mechanism for. W. T. Sears. No. 1,368,295; Feb. 15; v. 283; p. 381.
- Drilling-machines, Engine for. M. J. Burkel and P. B. Weiss. No. 1,369,082; Feb. 22; v. 283; p. 573.
- Drilling-machines, Feed mechanism for. J. F. Mirrieles. No. 1,388,875; Aug. 30; v. 289; p. 812.
- Drilling-machines, Rotating table for. W. M. Ziegler and A. G. Sudhoff. No. 1,367,579; Feb. 8; v. 283; p. 196.
- Drilling-machines, Supporting and clamping mechanism for. W. T. Sears. No. 1,376,169; Apr. 26; v. 285; p. 672.
- Drilling-machinery. C. A. Hultquist. No. 1,390,787; Sept. 13; v. 290; p. 338.
- Drilling machinery, Electric driving means for. H. W. Schatz. No. 1,379,782; May 31; v. 286; p. 904.
- Drilling operations, Fishing appliance for use in. D. L. Driscoll. No. 1,393,096; Oct. 11.
- Drilling-rig. H. N. Fountain. No. 1,370,498; Mar. 1; v. 284; p. 141.
- Drilling-rig. J. J. Thompson. No. 1,396,473; Nov. 8.
- Drilling-rigs, Safety-key for. E. J. Griffith. No. 1,397,864; Nov. 22.
- Drilling-tool. G. W. Hanson. No. 1,375,093; Apr. 19; v. 285; p. 435.
- Drink cooling and dispensing fountain. A. Eckert. No. 1,398,961; Dec. 6.
- Drink-mixer. M. Langhaus. No. 1,392,875; Oct. 4.
- Drink-mixer. W. G. Shelton. No. 1,382,683; June 28; v. 287; p. 613.
- Drink-mixers, Guard for. H. T. Pierson. No. 1,395,356; Nov. 1.
- Drink-mixing machine. H. B. Ross. No. 1,399,080; Dec. 6.
- Drinking-cup. J. Don. No. 1,369,634; Feb. 22; v. 283; p. 681.
- Drinking-cup. P. A. Fischer. No. 1,373,182; Mar. 29; v. 284; p. 867.
- Drinking-cup, Sanitary. M. B. Baird and G. A. Walls. No. 1,378,310; May 17; v. 286; p. 478.
- Drinking device. G. L. Weller. No. 1,376,059; Apr. 26; v. 285; p. 652.



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- Drinking-fountain and water attachment for faucets. M. W. Askin. No. 1,366,150; Jan. 18; v. 282; p. 491.
- Drip-pans, Indicator and alarm for refrigerator. W. M. Kurz. No. 1,384,767; July 19; v. 288; p. 444.
- Dripper and steeper, Combination. G. H. Nicholls. No. 1,366,824; Jan. 25; v. 282; p. 668.
- Drive-chain. W. J. Belcher. No. 1,388,506; Aug. 23; v. 289; p. 686.
- Drive connecting device, Flexible. W. M. Stone. No. 1,385,803; July 26; v. 288; p. 732.
- Drive, Four-wheel. L. B. Littlejohn. No. 1,366,536; Jan. 25; v. 282; p. 611.
- Drive mechanism. T. F. Ledbetter. No. 1,397,219; Nov. 15.
- Drive mechanism. F. E. Valois. No. 1,399,038; Dec. 6.
- Drive-mechanism control means. C. W. Anderson. No. 1,387,445; Aug. 16; v. 289; p. 417.
- Drive - wheel, Ground - engaging. C. J. Britt. No. 1,390,875; Sept. 13; v. 290; p. 356.
- Driver, Pile-. C. W. Miller. No. 1,380,072. May 31; v. 286; p. 959.
- Driveway construction. E. O. Meelberg. No. 1,364,127; Jan. 4; v. 282; p. 16.
- Driving and reversing mechanism. C. H. Norton; No. 1,385,969; July 26; v. 288; p. 764.
- Driving and reversing mechanism, Easy-start. G. I. Alden. No. 1,387,636; Aug. 16; v. 289; p. 456.
- Driving and steering mechanism. A. O. Higinbotham. No. 1,368,436; Feb. 15; v. 283; p. 409.
- Driving and steering mechanism. J. Schmit. No. 1,388,004; Aug. 16; v. 289; p. 529.
- Driving and steering wheel. T. Spacie. No. 1,382,253; June 21; v. 287; p. 476.
- Driving and stopping mechanism. L. E. Topham. No. 1,391,922; Sept. 27; v. 290; p. 704.
- Driving-box, Adjustable. W. M. Sheehan. No. 1,399,809; Dec. 13.
- Driving-boxes, Lateral take-up for. J. J. Peters. No. 1,397,110; Nov. 15.
- Driving connection. J. P. Hagaman. No. 1,380,953; June 7; v. 287; p. 120.
- Driving means for centrifugal bowls. M. Leitch. No. 1,372,085; Mar. 29; v. 284; p. 846.
- Driving mechanism. E. C. Carroll and H. E. Huffman. No. 1,370,087; Mar. 1; v. 284; p. 63.
- Driving mechanism. H. L. Fisher. No. 1,394,986; Oct. 25.
- Driving mechanism. H. B. Garman. No. 1,389,042; Aug. 30; v. 289; p. 846.
- Driving mechanism. A. O. Hubbard. No. 1,364,633; Jan. 4; v. 282; p. 113.
- Driving mechanism. B. Mazuryk. No. 1,374,214; Apr. 12; v. 285; p. 202.
- Driving mechanism. J. W. McQueen. No. 1,380,407; June 7; v. 287; p. 14.
- Driving mechanism. C. G. Thompson. No. 1,392,465; Oct. 4.
- Driving mechanism. G. M. Willis. No. 1,369,206; Feb. 22; v. 283; p. 598.
- Driving mechanism. H. E. Woolery. No. 1,400,200; Dec. 13.
- Driving mechanism. S. D. Wright. No. 1,386,667; Aug. 9; v. 289; p. 210.
- Driving mechanism, Angular. R. S. Curley. No. 1,397,244; Nov. 15.
- Driving mechanism, Flexible. K. Knudsen. No. 1,366,891; Jan. 25; v. 282; p. 681.
- Driving or power transmission belt. F. W. Radell. No. 1,378,379; May 17; v. 286; p. 490.
- Driving-wheel center. W. E. Woodard and H. W. Snyder. No. 1,380,457; June 7; v. 287; p. 25.
- Drop-light adjuster. J. Freeberg. No. 1,379,093; May 24; v. 286; p. 700.
- Drop-pit jack. R. L. Hibbard. No. 1,387,544; Aug. 16; v. 289; p. 437.
- Dropper. See—  
Liquid-dropper.
- Drum. W. D. Nelson. No. 1,391,786; Sept. 27; v. 290; p. 676.
- Drum. C. G. Olsen. No. 1,381,494; June 14; v. 287; p. 274.
- Drum, Belt-forming. E. C. Wiese. No. 1,394,457; Oct. 18.
- Drum, Collapsible. A. D. Converse. No. 1,377,003; May 3; v. 286; p. 119.
- Drum-ear. O. Meyer. No. 1,399,392; Dec. 6.
- Drum for burning and agglomerating. J. S. Fasting. No. 1,394,293; Oct. 18.
- Drum, Jacquard-. G. C. L. Tisch. No. 1,389,398; Aug. 30; v. 289; p. 916.
- Drum, Kettle-. A. F. Wiedoeft. No. 1,391,437; Sept. 20; v. 290; p. 533.
- Drum or reel, Carrying. W. F. Garlaad. No. 1,390,286; Sept. 13; v. 290; p. 238.
- Drum, Sandpaper-. W. L. Browne. No. 1,374,425; Apr. 12; v. 285; p. 244.
- Drum-saw machine. W. M. Whitney. No. 1,386,082; Aug. 2; v. 289; p. 24.
- Drums, Means for connecting flexible elements to. W. L. Officer. No. 1,388,662; Aug. 23; v. 289; p. 715.
- Drums, Valve for rotating. F. Porharty. No. 1,393,825; Oct. 18.
- Dual-wheel remover. W. A. Chippis. No. 1,378,582; May 17; v. 286; p. 529.
- Duck-decoys, Counterbalance for. G. W. Klock. No. 1,392,065; Sept. 27; v. 290; p. 733.
- Ductility-testing machine. T. Y. Olsen. No. 1,371,050; Mar. 8; v. 284; p. 291.
- Dumb-bell. W. Trepanier. No. 1,395,313; Nov. 1.
- Dummy keyboard. J. W. McCann. No. 1,385,256; July 19; v. 288; p. 544.
- Dump-body. H. D. Ells. No. 1,371,152; Mar. 8; v. 284; p. 311.
- Dump-body partition and operating means therefor. M. M. Kahn and F. J. Silva. No. 1,376,146; Apr. 26; v. 285; p. 668.
- Dump-cart, Three-wheel. C. E. Gilbert and A. H. Carlson. No. 1,373,000; Mar. 29; v. 284; p. 830.
- Dump pits, Grate for elevator-. R. G. Quechl. No. 1,383,151; June 28; v. 287; p. 702.
- Dump-trough-operating apparatus, Automatic. E. L. Upp. No. 1,398,818; Nov. 29.
- Dumps, Automatic gooseneck-releaser for crossover tippel-. A. Kurelich. No. 1,396,127; Nov. 8.
- Dumping-bodies, Tilting mechanism for. G. W. Berry. No. 1,392,107; Sept. 27; v. 290; p. 742.
- Dumping-body. O. C. George. No. 1,389,642; Sept. 6; v. 290; p. 17.
- Dumping-body, Rocker. W. C. Anthony. No. 1,365,017; Jan. 11; v. 282; p. 232.
- Dumping-car. C. F. Astrom. No. 1,368,232; Feb. 15; v. 283; p. 369.
- Dumping device. C. F. Randall. No. 1,392,448; Oct. 4.
- Dumping device. J. W. Williams. No. 1,371,963; Mar. 15; v. 284; p. 531.
- Dumping-door actuator. A. Kubik. No. 1,389,449; Aug. 30; v. 289; p. 927.
- Dumping-trough-cover-operating mechanism. W. H. Johnston. No. 1,398,863; Nov. 29.
- Duplex eyelet-machine. F. L. Harmon. No. 1,379,687; May 31; v. 286; p. 886.
- Duplex mold. H. R. Gilson. No. 1,398,073; Nov. 22.
- Duplicating-machine. N. B. Hurd. No. 1,391,776; Sept. 27; v. 290; p. 674.
- Duplicating-machine, Automatic. T. A. Steinmetz. No. 1,401,826; Dec. 27.
- Duplicating-machines and the like, Spindle for. A. Isaacs. No. 1,377,584; May 10; v. 286; p. 286.
- Duplicating machines, Inking device for. W. Chipperfield. No. 1,387,764; Aug. 16; v. 289; p. 482.
- Duplicating process. A. Schapiro. No. 1,400,771; Dec. 20.
- Duplicator. T. Danheiser and F. F. Fecher. No. 1,372,674; Mar. 29; v. 284; p. 765.
- Duplicator. E. A. Oppenheimer. No. 1,382,312; June 21; v. 287; p. 488.
- Duplicator, Rotary. L. P. Bosc. No. 1,388,139; Aug. 16; v. 289; p. 555.
- Dust and dirt cap. C. J. Pugh. No. 1,391,692; Sept. 27; v. 290; p. 657.
- Dust-bag. R. A. Norton. No. 1,378,607; May 17; v. 286; p. 535.
- Dust-cap. F. E. Arason. No. 1,370,261; Mar. 1; v. 284; p. 97.
- Dust-cap, Quick-detachable. G. W. Scott. No. 1,399,405; Dec. 6.
- Dust-collecting device. K. B. Quinan. No. 1,370,484; Mar. 1; v. 284; p. 138.
- Dust-collecting machine. J. C. Luden. No. 1,393,892; Oct. 18.
- Dust-collector. S. M. Jacoby. No. 1,371,682; Mar. 15; v. 284; p. 478.
- Dust-collector, Adjustable. M. W. Leonhardt. No. 1,393,553; Oct. 11.
- Dust-guard. T. Cain. No. 1,395,701; Nov. 1.
- Dust-recovering machine. G. A. Gieseler. No. 1,396,188; Nov. 8.
- Dust-separator. C. H. Felton. No. 1,390,284; Sept. 13; v. 290; p. 238.
- Dust-separator. H. Milliken. No. 1,388,741; Aug. 23; v. 289; p. 731.
- Dust-separator, Centrifugal. H. Milliken. No. 1,372,714; Mar. 29; v. 284; p. 772.
- Dust-separator, Pneumatic. L. Lindsay and E. M. Davids. No. 1,380,322; May 31; v. 286; p. 1006.
- Duster. E. G. Gilman. No. 1,392,633; Oct. 4.
- Dusting articles, Method and apparatus for. D. E. Humphrey. No. 1,400,289; Dec. 13.
- Dusting-machine. D. G. Edwards. No. 1,373,317; Mar. 29; v. 284; p. 893.
- Dustpan. W. Dupré. No. 1,392,406; Oct. 4.
- Dustpan. I. M. Freeman. No. 1,376,012; Apr. 26; v. 285; p. 642.
- Dustpan. A. McCallan. No. 1,384,076; July 12; v. 288; p. 219.
- Dustpan. W. Newman. No. 1,371,107; Mar. 8; v. 284; p. 302.
- Dustpan and broom, Combination. W. H. Russell. No. 1,375,017; Apr. 19; v. 285; p. 420.
- Dustpans, End-shield for automobile-. F. W. Armstrong. No. 1,377,795; May 10; v. 286; p. 327.
- Dye. S. M. Tootal. No. 1,367,930; Feb. 8; v. 283; p. 263.
- Dye assistant. R. A. Phair. No. 1,372,038; Mar. 22; v. 284; p. 602.
- Dye, Azo. T. H. Leaming. No. 1,372,439; Mar. 22; v. 284; p. 678.
- Dye composition, Speck-. O. L. Peterson. No. 1,386,201; Aug. 2; v. 289; p. 48.



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- Dye, Disazo. T. H. Leaming. No. 1,365,040; Jan. 11; v. 282; p. 238.
- Dye, Disazo. W. M. Ralph. No. 1,371,979; Mar. 15; v. 284; p. 534.
- Dye, Disazo. W. M. Ralph. (Reissue.) No. 15,182; Aug. 23; v. 289; p. 750.
- Dye, Disazo. T. M. Susemihl. No. 1,378,388; May 17; v. 286; p. 492.
- Dye goods and making same, Two-tone double-piece. H. Noll. No. 1,376,569; May 3; v. 286; p. 36.
- Dye substitute. A. L. Clapp. No. 1,367,862; Feb. 8; v. 283; p. 251.
- Dyeing. A. Lendle. No. 1,375,919; Apr. 26; v. 285; p. 624.
- Dyeing. H. B. Smith. No. 1,368,298; Feb. 15; v. 283; p. 382.
- Dyeing and bleaching apparatus. A. Wioland. No. 1,388,081; Aug. 16; v. 289; p. 543.
- Dyeing and finishing process and product, Cloth. C. H. Crowell. No. 1,370,412; Mar. 1; v. 284; p. 124.
- Dyeing and waterproofing. A. O. Tate. No. 1,374,122; Apr. 5; v. 285; p. 144.
- Dyeing, Apparatus for. C. H. Robbins. No. 1,378,618; May 17; v. 286; p. 537.
- Dyeing cellulose acetate. R. Clavel. No. 1,378,443; May 17; v. 286; p. 503.
- Dyeing fibers, threads, or fabrics. J. F. Briggs and C. W. Palmer. No. 1,398,357; Nov. 29.
- Dyeing-machine. F. Carter. No. 1,400,417; Dec. 13.
- Dyeing-machine. H. M. Dudley. No. 1,390,512; Sept. 13; v. 290; p. 283.
- Dyeing-machine. H. M. Dudley. No. 1,395,669; Nov. 1.
- Dyeing-machine. H. M. Dudley. No. 1,397,860; Nov. 22.
- Dyeing-machine. J. A. Grundy. No. 1,389,444; Aug. 30; v. 289; p. 920.
- Dyeing-machine. E. W. Morgan. No. 1,365,936; Jan. 18; v. 282; p. 450.
- Dyeing-machine. J. H. Thompson. No. 1,395,165; Oct. 25.
- Dyeing, Preparing cellulose acetate for. E. Prince. No. 1,366,023; Jan. 18; v. 282; p. 466.
- Dyeing tops, yarn, &c. A. Ashworth. No. 1,374,628; Apr. 12; v. 285; p. 283.
- Dyeing tops, yarn, &c., Apparatus for. A. Ashworth. No. 1,374,543; Apr. 12; v. 285; p. 266.
- Dyeing yarns, &c. J. A. Grundy. No. 1,400,675; Dec. 20.
- Dyestuff and making same. A. J. Field. No. 1,383,710; July 5; v. 288; p. 94.
- Dyestuff and making same, Green. V. Villiger and H. von Krammichfeldt. No. 1,396,483; Nov. 8.
- Dyestuff and producing it. E. Hart. No. 1,399,014; Dec. 6.
- Dyestuffs and making same. G. de Montmollin and H. J. Spier. No. 1,387,596; Aug. 16; v. 289; p. 448.
- Dyestuffs containing chromium and process of making same, Green acid. A. Grob. No. 1,394,825; Oct. 25.
- Dyestuffs, Solvent for. H. A. Folsom. No. 1,379,175; May 24; v. 286; p. 715.
- Dynamic balancing-machine. R. A. L. Volet. No. 1,401,838; Dec. 27.
- Dynamo. E. A. Watson. No. 1,375,192; Apr. 19; v. 285; p. 454.
- Dynamo. Continuous-current. F. Kesselring. No. 1,389,051; Aug. 30; v. 289; p. 848.
- Dynamo-electric machine. R. W. Myers. No. 1,396,521; Nov. 8.
- Dynamo-electric machine elements, Wedge or key for slotted. M. J. Hig. No. 1,375,999; Apr. 26; v. 285; p. 583.
- Dynamo-electric machine, Self-regulating. W. Holt. No. 1,377,074; May 3; v. 286; p. 133.
- Dynamo-electric machines, Apparatus for protecting the field structure and windings of. W. F. Dawson. No. 1,381,086; June 7; v. 287; p. 146.
- Dynamo-electric machines, Commutating means for. F. T. Hague. No. 1,371,620; Mar. 15; v. 284; p. 466.
- Dynamo-electric machines, Coil-retainer for. H. Pieper. No. 1,396,525; Nov. 8.
- Dynamo-electric machines, Regulating system for. L. W. Thompson. No. 1,390,843; Sept. 13; v. 290; p. 349.
- Dynamo-electric machines, Regulator for. B. L. Leece and H. C. Branch. No. 1,374,856; Apr. 12; v. 285; p. 326.
- Dynamo-field regulator. H. L. Tanner. No. 1,377,229; May 10; v. 286; p. 218.
- Dynamo, Ignition. S. C. McKeown. No. 1,382,107; June 21; v. 287; p. 449.
- Dynamos, Core structure for. W. W. Dean. No. 1,366,525; Jan. 25; v. 282; p. 608.
- Dynamos, Error-preventing terminal for. F. Münz. No. 1,372,446; Mar. 22; v. 284; p. 680.
- Dynamometer. G. S. Towar. No. 1,382,694; June 28; v. 287; p. 615.
- Dynamometer, Deflection. H. Smith. No. 1,400,776; Dec. 20.
- Ear-appliance mounting. H. G. Pape. No. 1,395,864; Nov. 1.
- Ear-buttin machine. F. H. Knapp. No. 1,366,568; Jan. 25; v. 282; p. 617.
- Ear device. C. T. Buck. No. 1,384,595; July 12; v. 288; p. 327.
- Ear device. A. E. Waller. No. 1,368,308; Feb. 15; v. 283; p. 383.
- Ear muff. L. Basch. No. 1,398,958; Dec. 6.
- Earpiece. F. D. Waldron. No. 1,368,307; Feb. 15; v. 283; p. 383.
- Ear-protector. L. Cenerini. No. 1,368,895; Feb. 15; v. 283; p. 498.
- Ear-shield. W. J. Kent. No. 1,367,746; Feb. 8; v. 283; p. 228.
- Earth-boring machine. C. S. Corrigan. No. 1,396,625; Nov. 8.
- Earth-boring machine. G. W. Hanson. No. 1,375,092; Apr. 19; v. 285; p. 435.
- Earth-boring machine. W. E. Moore. No. 1,397,324; Nov. 15.
- Earth-boring machine. S. J. Smith. No. 1,369,941; Mar. 1; v. 284; p. 36.
- Earth-pulverizing machine. H. Christensen. No. 1,391,614; Sept. 20; v. 290; p. 568.
- Earthenware, Manufacturing of. C. E. Fulton. No. 1,398,014; Nov. 22.
- Earthworking-machine. T. A. Prendergast. No. 1,397,653; Nov. 22.
- Earthworking-machine, Rotary. A. Rutishauser. No. 1,368,355; Feb. 15; v. 283; p. 393.
- Easel. J. A. Cameron. No. 1,396,724; Nov. 15.
- Easel. A. Hermanson. No. 1,398,516; Nov. 29.
- Easel. M. Kazanjian. No. 1,391,479; Sept. 20; v. 290; p. 541.
- Easel. A. E. Mills, Jr. No. 1,399,507; Dec. 6.
- Easel. N. Warshaw. No. 1,380,614; June 7; v. 287; p. 55.
- Easel, Display. M. E. Bayer. No. 1,379,612; May 31; v. 286; p. 873.
- Easel display-box. A. F. Stone. No. 1,366,333; Jan. 18; v. 282; p. 527.
- Easel, Enlarging. L. C. Byck. No. 1,377,394; May 10; v. 286; p. 251.
- Eaves-trough. T. Byrd. No. 1,398,415; Nov. 29.
- Eaves trough-forming machine. M. L. Hunker. No. 1,377,252; May 10; v. 286; p. 223.
- Eaves-trough hanger. J. P. Abbott. No. 1,385,978; Aug. 2; v. 289; p. 3.
- Eaves-troughs, Producing. M. L. Hunker. No. 1,377,251; May 10; v. 286; p. 223.
- Edge-finishing. G. J. Gorsuch. No. 1,372,686; Mar. 29; v. 284; p. 767.
- Edge-scouring roll. G. O. Terry. No. 1,387,627; Aug. 16; v. 289; p. 454.
- Edge setter and burnisher. O. R. Angell. No. 1,398,993; Dec. 6.
- Edge setting and burnishing machine. O. R. Angell. No. 1,392,903; Oct. 11.
- Edge setting and burnishing machine. O. R. Angell. No. 1,395,787; Nov. 1.
- Edge-turning machine. F. J. McDonald. No. 1,398,786; Nov. 29.
- Edges, Grinding cutting. P. M. Perry. No. 1,400,767; Dec. 20.
- Edging. H. G. Levy. No. 1,400,174; Dec. 13.
- Edible-oil material and producing same. C. Ellis. No. 1,372,615; Mar. 22; v. 284; p. 712.
- Edible product, Esterified. C. Ellis. No. 1,372,616; Mar. 22; v. 284; p. 712.
- Educational and amusement device. J. Galleazzi. No. 1,386,248; Aug. 2; v. 289; p. 57.
- Educational and amusement device, Child's. G. L. E. Klingbeil. No. 1,378,874; May 24; v. 286; p. 659.
- Educational and like appliance. D. Evans. No. 1,369,640; Feb. 22; v. 283; p. 682.
- Educational apparatus. L. Ferrari. No. 1,384,801; July 19; v. 288; p. 450.
- Educational apparatus. M. A. M. Haupt. No. 1,394,620; Oct. 25.
- Educational apparatus. P. J. Jones. No. 1,392,578; Oct. 4.
- Educational apparatus. H. H. Mathis. No. 1,370,826; Mar. 8; v. 284; p. 249.
- Educational appliance. W. P. Lecky. No. 1,367,192; Feb. 1; v. 283; p. 61.
- Educational appliance. J. A. Mathes. No. 1,375,308; Apr. 19; v. 285; p. 477.
- Educational appliance. T. Mathews. No. 1,364,778; Jan. 4; v. 282; p. 141.
- Educational appliance. K. D. Smith. No. 1,391,986; Sept. 27; v. 290; p. 718.
- Educational block. G. A. McLain and E. M. Bothne. No. 1,377,261; May 10; v. 286; p. 224.
- Educational board. V. O. Watkins. No. 1,392,726; Oct. 4.
- Educational device. A. R. Gibson. No. 1,383,097; June 28; v. 287; p. 692.
- Educational device. A. B. Hurley. No. 1,394,305; Oct. 18.
- Educational device. H. Liebman. No. 1,400,887; Dec. 20.
- Educational device. E. L. Moore. No. 1,396,379; Nov. 8.
- Educational device. F. A. Roddy. No. 1,385,096; July 19; v. 288; p. 512.
- Efficiency-table. W. F. Brennan. No. 1,394,405; Oct. 18.
- Efficiency-table. W. F. Brennan. No. 1,399,000; Dec. 6.
- Egg and cream beater. E. Weber. No. 1,372,578; Mar. 22; v. 284; p. 705.
- Egg-beater. J. L. Brumford. No. 1,384,593; July 12; v. 288; p. 326.
- Egg-beater. J. M. Feeney. No. 1,399,296; Dec. 6.
- Egg-beater. S. C. Hills. No. 1,386,405; Aug. 2; v. 289; p. 87.



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- Egg-beater. A. F. Nyberg. No. 1,399,513; Dec. 6.
- Egg-beater. G. D. Munsing. No. 1,400,309; Dec. 13.
- Egg-beater. J. M. Rostocki. No. 1,381,605; June 14; v. 287; p. 306.
- Egg-boiler. W. A. Corbett. No. 1,387,357; Aug. 9; v. 289; p. 349.
- Egg-boiler. C. C. Lamb. No. 1,377,983; May 10; v. 286; p. 361.
- Egg-boiler. C. C. Lamb. No. 1,377,984; May 10; v. 286; p. 364.
- Egg-breaker. J. A. Becker. No. 1,365,961; Jan. 18; v. 282; p. 454.
- Egg-candler. W. L. Morris. No. 1,393,238; Oct. 11.
- Egg-candler. Daylight. F. E. Mussehl. No. 1,373,969; Apr. 5; v. 285; p. 116.
- Egg-carrier. J. B. Sipe. No. 1,398,045; Nov. 22.
- Egg-carton. R. M. Odell. No. 1,397,539; Nov. 22.
- Egg-carton. J. M. Yarnall. No. 1,374,050; Apr. 5; v. 285; p. 130.
- Egg-grader. V. Clairemont. No. 1,370,629; Mar. 8; v. 284; p. 212.
- Egg-handling device. J. W. Lang. No. 1,374,457; Apr. 12; v. 285; p. 250.
- Egg-holder. R. F. Schulze. No. 1,386,078; Aug. 2; v. 289; p. 23.
- Egg holder and opener. J. H. Van Melsen. No. 1,372,111; Mar. 22; v. 284; p. 615.
- Egg-opener. J. C. Curtis. No. 1,369,625; Feb. 22; v. 283; p. 679.
- Egg-opener. E. Simkiss. No. 1,372,564; Mar. 22; v. 284; p. 703.
- Egg-packing. M. Koppelman. No. 1,378,469; May 17; v. 286; p. 508.
- Egg-packing. M. Koppelman. No. 1,378,685; May 17; v. 286; p. 550.
- Egg-poacher. E. R. Finn. No. 1,397,318; Nov. 15.
- Egg-poacher. A. Fontaine and C. Vincent. No. 1,390,772; Sept. 13; v. 290; p. 335.
- Egg-poaching apparatus. F. E. Hummel and J. J. Noeth. No. 1,390,015; Dec. 6.
- Egg-preservative. V. Clairemont and C. T. Lehmann. No. 1,388,024; Aug. 16; v. 289; p. 532.
- Egg-preserving apparatus. V. Clairemont. No. 1,370,630; Mar. 8; v. 284; p. 212.
- Egg-preserving apparatus, Automatic. V. Clairemont. No. 1,369,324; Feb. 22; v. 283; p. 620.
- Egg receptacle and carrier. R. M. Odell. No. 1,397,540; Nov. 22.
- Egg-shucker. W. C. White. No. 1,397,306; Nov. 15.
- Egg-tester. J. O. Keller. No. 1,374,577; Apr. 12; v. 285; p. 273.
- Egg-tester. J. K. and E. K. Martinka. No. 1,400,966; Dec. 20.
- Egg-tester. W. E. Tunstill. No. 1,373,035; Mar. 29; v. 284; p. 837.
- Egg testing and sorting machine. C. O. Rogers. No. 1,394,445; Oct. 18.
- Egg-turnover pan. J. A. Smith. No. 1,398,655; Nov. 29.
- Eggs and other articles. Collapsible box for shipment of. J. H. Spangler. No. 1,373,107; Mar. 29; v. 284; p. 851.
- Eggs. Apparatus for cleaning. C. J. Williamson. No. 1,392,546; Oct. 4.
- Eggs. Apparatus for handling. C. J. Williamson. No. 1,379,234; May 24; v. 286; p. 727.
- Eggs. Apparatus for preserving. V. Clairemont. No. 1,369,323; Feb. 22; v. 283; p. 620.
- Eggs. Freezing and preserving. J. M. Hussey. No. 1,398,860; Nov. 29.
- Eggs. Process of and apparatus for preserving. V. Clairemont. No. 1,370,628; Mar. 8; v. 284; p. 212.
- Ejector, Multiple-stage. R. N. Ehrhart. No. 1,397,924; Nov. 22.
- Ejector or injector. E. O. Cartwright. No. 1,369,398; Feb. 22; v. 283; p. 635.
- Elastic fabric. M. W. Schloss. (Reissue.) No. 15,196; Sept. 13; v. 290; p. 378.
- Elastic step-mat. W. MacPherson. No. 1,398,701; Nov. 29.
- Elastic wheel. E. Neely. No. 1,388,289; Aug. 23; v. 289; p. 642.
- Electric accumulator. E. Lemaire. No. 1,366,010; Jan. 18; v. 282; p. 463.
- Electric accumulator. A. Nodon. No. 1,390,155; Sept. 6; v. 290; p. 120.
- Electric accumulators, Liquid-tight joint for preventing leakage between the terminal rods and covers of. A. Dinin. No. 1,379,854; May 31; v. 286; p. 918.
- Electric accumulators, Manufacture of negative plates for. A. Pouchain. No. 1,366,491; Jan. 25; v. 282; p. 601.
- Electric accumulators, Negative plate for. A. Pouchain. No. 1,366,490; Jan. 25; v. 282; p. 601.
- Electric accumulators, Negative plate for. A. Pouchain. No. 1,399,995; Dec. 13.
- Electric air-heater. R. H. Minns. No. 1,381,579; June 14; v. 287; p. 290.
- Electric animal-trap. J. Tupper. No. 1,388,782; Aug. 23; v. 289; p. 739.
- Electric apparatus. J. J. Frank. No. 1,376,011; Apr. 26; v. 285; p. 642.
- Electric apparatus, Dynamo-. C. Marcus. No. 1,373,901; Apr. 5; v. 285; p. 102.
- Electric apparatus, Tank for. S. E. Johannesen. No. 1,374,662; Apr. 12; v. 285; p. 290.
- Electric-arc light, Portable. E. Hirt. No. 1,371,420; Mar. 15; v. 284; p. 427.
- Electric arcs, Disruption of. J. F. Trittle. No. 1,398,981; Dec. 6.
- Electric arcs, Method of and device for controlling. D. F. Comstock. No. 1,367,352; Feb. 1; v. 283; p. 93.
- Electric automobiles, Heater for. J. I. Sharp. No. 1,364,212; Jan. 4; v. 282; p. 32.
- Electric batteries, Containing-box for. W. C. Brooks. No. 1,381,399; June 14; v. 287; p. 256.
- Electric batteries, Negative plate for. A. Pouchain. No. 1,399,996; Dec. 13.
- Electric batteries, Terminal structure for. P. E. Norris. No. 1,386,946; Aug. 9; v. 289; p. 267.
- Electric battery. R. C. Benner. No. 1,400,513; Dec. 20.
- Electric battery. R. C. Benner and H. F. French. No. 1,393,739; Oct. 18.
- Electric battery. H. F. French and R. C. Benner. No. 1,390,524; Sept. 13; v. 290; p. 285.
- Electric battery. E. R. Gill. No. 1,381,298; June 14; v. 287; p. 237.
- Electric battery. D. Pepper. No. 1,375,012; Apr. 19; v. 285; p. 419.
- Electric battery and preparing manganese material therefor. O. E. Ruboff. No. 1,385,151; July 19; v. 288; p. 524.
- Electric-battery system and operating the same. E. Thomson. No. 1,396,541; Nov. 8.
- Electric bulletin. R. E. Jones. No. 1,390,039; Sept. 6; v. 290; p. 97.
- Electric burner. C. V. Funderburg. No. 1,375,145; Apr. 19; v. 285; p. 445.
- Electric candle socket. M. Herskovitz. No. 1,397,212; Nov. 15.
- Electric cars, &c., System of operating safety appliances on. E. J. Futterer. No. 1,397,205; Nov. 15.
- Electric centrals, Supplementary power plant for. J. K. Ruths. No. 1,366,215; Jan. 18; v. 282; p. 503.
- Electric-circuit breaker. J. H. Lux. No. 1,369,035; Feb. 22; v. 283; p. 565.
- Electric-circuit breaker, Automatic. H. E. Wadsworth and W. B. Ensign. No. 1,368,003; Feb. 8; v. 283; p. 276.
- Electric-circuit-breaking switch. J. S. Thompson. No. 1,380,438; June 7; v. 287; p. 21.
- Electric-circuit closer. W. J. Cook. No. 1,382,476; June 21; v. 287; p. 520.
- Electric circuit control. H. J. Murray. No. 1,400,229; Dec. 13.
- Electric-circuit controller. R. Amberton. No. 1,395,886; Nov. 1.
- Electric-circuit-controlling device. S. C. McKeown. No. 1,368,517; Feb. 15; v. 283; p. 425.
- Electric-circuit-controlling device. S. C. McKeown. No. 1,394,032; Oct. 18.
- Electric-circuit-protecting apparatus. B. M. Mooers and L. E. Warner. No. 1,381,581; June 14; v. 287; p. 291.
- Electric-circuit tester. L. L. Kroupa. No. 1,370,751; Mar. 8; v. 284; p. 235.
- Electric circuit-testing device. S. G. Barnard. No. 1,382,884; June 28; v. 287; p. 651.
- Electric circuits, Means for detecting changes of resistance in. P. van S. Kolf. No. 1,397,641; Nov. 22.
- Electric circuits, Protecting device for. N. J. Conrad. No. 1,401,881; Dec. 27.
- Electric circuits, Terminal for wires of. S. Anthony. No. 1,395,788; Nov. 1.
- Electric coils, Manufacturing. E. W. Küttner. No. 1,381,567; June 14; v. 287; p. 288.
- Electric commutator. P. Bossu. No. 1,390,192; Sept. 6; v. 290; p. 127.
- Electric condenser. C. F. and W. H. Smith. No. 1,395,931; Nov. 1.
- Electric conductors, Apparatus for testing capacity deviations and unbalance of. H. S. Osborne. No. 1,375,414; Apr. 19; v. 285; p. 496.
- Electric conductors, Apparatus for testing capacity of. W. H. Martin. No. 1,375,405; Apr. 19; v. 285; p. 495.
- Electric conductors, Construction of. W. L. Bliss. No. 1,364,861; Jan. 11; v. 282; p. 201.
- Electric conduit and making same. H. M. Short. No. 1,396,789; Nov. 15.
- Electric conduits, Combined clip and spacer for. B. J. Kahn. No. 1,366,321; Jan. 18; v. 282; p. 524.
- Electric conduits, Pipe-cap for. J. C. Phelps. No. 1,378,195; May 17; v. 286; p. 456.
- Electric connector. F. A. Tefft. No. 1,382,753; June 28; v. 287; p. 726.
- Electric contact device. C. C. Farmer. No. 1,390,607; Sept. 13; v. 290; p. 302.
- Electric-contact device. J. F. G. P. Hartmann. No. 1,365,491; Jan. 11; v. 282; p. 322.
- Electric contact device. A. A. Kent. No. 1,395,427; Nov. 1.
- Electric contact device. W. E. Studstill. No. 1,383,037; June 28; v. 287; p. 680.
- Electric contact-point. J. H. Muller. No. 1,367,752; Feb. 8; v. 283; p. 229.
- Electric control system. B. M. Mooers and L. E. Warner. No. 1,381,580; June 14; v. 287; p. 290.
- Electric controller. R. Amberton. No. 1,391,522; Sept. 20; v. 290; p. 550.



- Electric controlling apparatus. J. L. Schermerhorn. No. 1,399,084; Dec. 6.
- Electric cord-holder. C. Zinow. No. 1,365,762; Jan. 18; v. 282; p. 415.
- Electric coupling. W. A. Darrah and R. G. Averill. No. 1,392,558; Oct. 4.
- Electric coupling device. H. F. Woernley. No. 1,394,057; Oct. 18.
- Electric-current controllers and making the same, Resistor element for. L. Bradley. No. 1,370,728; Mar. 8; v. 284; p. 231.
- Electric current, indicating, recording, and controlling device actuated by an. J. E. Colas and E. L. M. Ragonot. No. 1,391,321; Sept. 20; v. 290; p. 510.
- Electric current, Push-button-switch. A. Cesaro. No. 1,383,527; July 5; v. 288; p. 55.
- Electric-current relay. C. O. Lorenz. No. 1,385,181; July 19; v. 288; p. 529.
- Electric-current waves of radiofrequency, Method of and apparatus for producing and distributing. E. F. W. Alexanderson. No. 1,386,830; Aug. 9; v. 289; p. 244.
- Electric currents, Generating system for. A. J. Kloneck. No. 1,374,170; Apr. 5; v. 285; p. 153.
- Electric currents into direct currents and vice versa, Apparatus for converting alternating. J. E. Calverley and W. E. Highfield. No. 1,366,057; Jan. 18; v. 282; p. 472.
- Electric-cut-out box. C. D. Platt. No. 1,396,876; Nov. 15.
- Electric cut-out box. R. Ratcliffe. No. 1,365,193; Jan. 11; v. 282; p. 265.
- Electric device. J. D. Zieley. No. 1,389,235; v. 289; p. 884.
- Electric device, Time-controlled. C. F. Lehman. No. 1,397,692; Nov. 22.
- Electric display. R. F. Stoddard. No. 1,378,495; May 17; v. 286; p. 513.
- Electric distribution systems, Protective arrangement for. P. V. Hunter and J. R. Beard. No. 1,389,306; Aug. 30; v. 289; p. 898.
- Electric door-lock. G. Deeg. No. 1,377,061; May 3; v. 286; p. 130.
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- Electric-dynamo voltage-regulator. F. Munz. No. 1,373,520; Apr. 5; v. 285; p. 28.
- Electric elevator. H. F. Howell. No. 1,373,132; Mar. 29; v. 284; p. 856.
- Electric engine. J. A. Manns. No. 1,377,087; May 3; v. 286; p. 135.
- Electric fan heater. J. C. Cluitts. No. 1,399,931; Dec. 13.
- Electric feed-water regulator. W. M. Reichart. No. 1,394,643; Oct. 25.
- Electric fitting. G. B. Thomas. No. 1,392,091; Sept. 27; v. 290; p. 738.
- Electric fixture. A. B. Allworth. No. 1,398,956; Dec. 6.
- Electric fixture. F. L. Butler. No. 1,391,610; Sept. 20; v. 290; p. 567.
- Electric fixture. F. L. Butler. No. 1,391,611; Sept. 20; v. 290; p. 568.
- Electric fixture. F. L. Butler. No. 1,391,612; Sept. 20; v. 290; p. 568.
- Electric fixture. F. L. Butler. Nos. 1,393,078-9; Oct. 11.
- Electric fixture. F. L. Butler. No. 1,401,460; Dec. 27.
- Electric fixtures, Making installation-loops for. A. C. Recker. No. 1,391,792; Sept. 27; v. 290; p. 677.
- Electric fluid-heating apparatus. E. Fredriksen. No. 1,385,441; July 26; v. 288; p. 657.
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- Electric furnace. W. K. Booth and W. L. Morris. No. 1,376,072; Apr. 26; v. 285; p. 654.
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- Electric furnace. O. A. Colby. No. 1,367,124; Feb. 1; v. 283; p. 48.
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- Electric furnace. M. R. Trembour. No. 1,369,578; Feb. 22; v. 283; p. 670.
- Electric furnace. C. H. Vom Baur. No. 1,385,411; July 26; v. 288; p. 651.
- Electric furnace and operating same. F. T. Snyder. No. 1,379,942; May 31; v. 286; p. 934.
- Electric-furnace control. A. L. Wilkes. No. 1,377,951; May 10; v. 286; p. 358.
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- Electric fuse. A. W. Steele. No. 1,386,138; Aug. 2; v. 289; p. 35.
- Electric fuse. A. W. Steele. No. 1,393,982; Oct. 18.
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- Electric generating system. C. F. Strong. No. 1,387,742; Aug. 16; v. 289; p. 477.
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- Electric generator and motor. J. Shepherd. No. 1,384,865; July 19; v. 288; p. 464.
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- Electric generator sets, Portable carrying means for. C. E. Rowland. No. 1,389,903; Sept. 6; v. 290; p. 70.
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- Electric heater. E. N. Brown and M. H. Shoenberg. No. 1,398,217; Nov. 22.
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- Electric heater. E. Deille. No. 1,373,117; Mar. 29; v. 284; p. 853.
- Electric heater. H. Dicks. No. 1,374,639; Apr. 12; v. 285; p. 285.
- Electric heater. A. J. Holmes. No. 1,391,113; Sept. 20; v. 290; p. 467.
- Electric heater. J. E. C. Holmes. No. 1,401,472; Dec. 27.
- Electric heater. F. C. Hughes. No. 1,399,428; Dec. 6.
- Electric heater. L. P. Hynes. No. 1,385,376; July 26; v. 288; p. 644.
- Electric heater. B. B. Kahn. (Reissue.) No. 15,085; Apr. 12; v. 285; p. 335.
- Electric heater. F. Kuhn, and J. A. Hand. No. 1,368,265; Feb. 15; v. 283; p. 375.
- Electric heater. F. Kuhn and J. A. Hand. No. 1,388,270; Aug. 23; v. 289; p. 638.
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- Electric heater. E. N. Lightfoot. No. 1,374,591; Apr. 12; v. 285; p. 276.
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- Electric installations, Elbow-fitting for. W. H. Vibber. No. 1,369,589; Feb. 22; v. 283; p. 672.
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- Electric iron. J. W. Johnston. No. 1,388,719; Aug. 23; v. 289; p. 726.
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- Electric iron. J. A. Oca-Balda and G. A. De Langie. No. 1,386,525; Aug. 2; v. 289; p. 109.
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- Electric-light globes, Socket for. J. A. Sargent. No. 1,383,764; July 5; v. 288; p. 105.
- Electric light, Portable. J. T. Drufva. (Reissue.) No. 1,517,6; Aug. 9; v. 289; p. 866.
- Electric light, Portable. J. T. Drufva. (Reissue.) No. 1,524,9; Dec. 20.
- Electric light, Portable. D. L. Graff. No. 1,373,611; Apr. 5; v. 285; p. 45.
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- Electric light, Portable. C. Wachtel. No. 1,393,858; Oct. 18.
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- Electric-light support. C. H. Stull. No. 1,366,682; Jan. 25; v. 282; p. 640.
- Electric-lighting apparatus. J. H. George. No. 1,390,201; Sept. 6; v. 290; p. 129.
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- Electric-lighting fixtures. P. W. Sprecher. No. 1,385,192; July 19; v. 288; p. 532.
- Electric-lighting fixtures, Suspension means for. I. L. Park. No. 1,394,575; Oct. 25.
- Electric liquid-heater. B. W. Macy. No. 1,369,900; Mar. 1; v. 284; p. 28.
- Electric-lock strike. N. Fienberg and W. L. Wakeham. No. 1,383,269; June 28; v. 287; p. 724.
- Electric-locomotive truck. A. Wallace. No. 1,397,472; Nov. 15.
- Electric lug. E. V. Ford. No. 1,392,136; Sept. 27; v. 290; p. 747.
- Electric machine. O. Pletscher. No. 1,393,395; Oct. 11.
- Electric machine and brush-holder device therefor, Dynamo-. C. F. Gilchrist. No. 1,375,658; Apr. 19; v. 285; p. 543.
- Electric machine and system of control therefor, Dynamo-. R. E. Hellmund. No. 1,379,406; May 24; v. 286; p. 759.
- Electric machine and system of control therefor, Dynamo-. R. E. Hellmund and L. M. Perkins. No. 1,379,405; May 24; v. 286; p. 759.
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- Electric machine, Dynamo-. V. G. Apple. No. 1,396,947; Nov. 15.
- Electric machine, Dynamo-. A. E. Buchenberg. No. 1,401,112; Dec. 20.
- Electric machine, Dynamo-. H. S. Eades. No. 1,388,555; Aug. 23; v. 289; p. 694.
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- Electric machine, Dynamo-. H. C. E. Jacoby. No. 1,386,934; Aug. 9; v. 289; p. 265.
- Electric machine, Dynamo-. C. A. Parsons and J. Rosen. No. 1,392,022; Sept. 27; v. 290; p. 726.
- Electric machine, Dynamo-. H. K. Sandell. No. 1,381,505; June 14; v. 287; p. 275.
- Electric machine, Dynamo-. W. A. Turbayne. No. 1,366,545; Jan. 25; v. 282; p. 613.
- Electric machine, Dynamo-. W. A. Turbayne. No. 1,366,546; Jan. 25; v. 282; p. 613.
- Electric machine, Dynamo-. W. A. Turbayne. No. 1,401,947; Dec. 27.
- Electric machine, Dynamo-. H. H. Wait. No. 1,399,832; Dec. 13.
- Electric machine, Dynamo-. C. E. Wilson. No. 1,389,110; Aug. 30; v. 289; p. 859.
- Electric machine, Dynamo-. J. L. M. Yardley. No. 1,392,039; Sept. 27; v. 290; p. 729.
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- Electric machines, Arrangement of connections for dynamo-. J. R. Cook. No. 1,387,470; Aug. 16; v. 289; p. 422.
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- Electric machines, Controlling and regulating apparatus for dynamo-. F. W. Meyer. No. 1,376,452; May 3; v. 286; p. 14.
- Electric machines, Cooling dynamo-. E. F. W. Alexander-son. No. 1,382,878; June 28; v. 287; p. 650.
- Electric machines, Cooling system for dynamo-. G. M. Eaton. No. 1,365,309; Jan. 11; v. 282; p. 288.
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- Electric machines, Regulating system for dynamo-. O. F. Conklin. No. 1,400,501; Dec. 13.
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- Electrical immersion-heater. A. J. Gallagher. No. 1,365,978; Jan. 18; v. 282; p. 457.
- Electrical indicating device. R. S. O'Neill. No. 1,374,948; Apr. 19; v. 285; p. 406.
- Electrical indicating and measuring device. H. W. Hitchcock. No. 1,398,266; Nov. 29.
- Electrical installations. Terminal fitting for. W. H. Vibber. No. 1,385,650; July 26; v. 288; p. 701.
- Electrical insulator. W. J. Welch and A. H. Tracy. No. 1,393,330; Oct. 11.
- Electrical limit-switch. R. L. Rockwell and H. R. Stevens. No. 1,386,897; Aug. 9; v. 289; p. 258.
- Electrical machines. Apparatus for the high-voltage windings of. F. Haberli and J. Kübler. No. 1,387,389; Aug. 9; v. 289; p. 355.
- Electrical measuring apparatus. J. L. Clarke. No. 1,381,968; June 21; v. 287; p. 424.
- Electrical measuring apparatus. H. Nyquist. No. 1,397,228; Nov. 15.
- Electrical measuring instrument. C. T. Allcutt. No. 1,385,979; Aug. 2; v. 289; p. 3.
- Electrical measuring instrument. C. D. Miller. No. 1,397,441; Nov. 15.
- Electrical measuring instrument. A. Muratori. No. 1,392,199; Sept. 27; v. 290; p. 760.
- Electrical measuring instrument. H. B. Taylor. No. 1,386,034; Aug. 2; v. 289; p. 15.
- Electrical measurement. E. F. Northrup. No. 1,374,316; Apr. 12; v. 285; p. 222.
- Electrical oscillation apparatus. High-frequency. L. R. McDonald. No. 1,389,255; Aug. 30; v. 289; p. 888.
- Electrical oscillation. Means for generating. R. A. Weagant. No. 1,384,108; July 12; v. 288; p. 225.
- Electrical precipitating system. L. W. Chubb. No. 1,389,126; Aug. 30; v. 289; p. 862.
- Electrical precipitating system. L. W. Chubb. No. 1,396,811; Nov. 15.
- Electrical precipitating system. L. W. Chubb. No. 1,399,422; Dec. 6.
- Electrical protective device. J. J. Lodge. No. 1,399,502; Dec. 6.
- Electrical protective device. B. H. Smith. No. 1,365,288; Jan. 11; v. 282; p. 284.
- Electrical receptacles. Convertible plate or cover for. J. F. Soutgerathe and R. Kale. No. 1,399,899; Dec. 13.
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- Electrical regulating system. A. W. Copley. No. 1,381,283; June 14; v. 287; p. 235.
- Electrical regulation. System of. E. Bauer. No. 1,380,764; June 7; v. 287; p. 84.
- Electrical regulator. M. R. Shedd. No. 1,372,097; Mar. 22; v. 284; p. 613.
- Electrical regulator. W. R. Woodward. No. 1,386,045; Aug. 2; v. 289; p. 17.
- Electrical relay. C. O. Harrington. No. 1,400,603; Dec. 20.
- Electrical relay. J. F. Toomey. No. 1,380,752; June 7; v. 287; p. 81.
- Electrical resistance apparatus. P. H. Dawe. No. 1,398,630; Nov. 29.
- Electrical resistor. W. Hoopes. No. 1,393,373; Oct. 11.
- Electrical searchlight and other projectors. W. M. Mordey. No. 1,382,215; June 21; v. 287; p. 469.
- Electrical solenoid. A. Churchward. No. 1,389,625; Sept. 6; v. 290; p. 13.
- Electrical steam and hot-water boiler. N. R. Forssblad. No. 1,386,487; Aug. 2; v. 289; p. 101.
- Electrical switch. B. D. Horton. No. 1,372,140; Mar. 22; v. 284; p. 621.
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- Electrical switch. B. D. Horton. No. 1,378,232; May 17; v. 286; p. 463.
- Electrical switch. B. D. Horton. (Reissue.) No. 15,169; Aug. 2; v. 289; p. 122.
- Electrical switch. B. D. Horton, A. P. Ball, and F. Zenker. No. 1,383,808; July 5; v. 288; p. 114.
- Electrical switch. B. D. Horton. No. 1,400,288; Dec. 13.
- Electrical switch. H. D. James. No. 1,396,845; Nov. 15.
- Electrical switch. W. Kaisling. No. 1,386,626; Aug. 9; v. 289; p. 202.
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- Electrical switch and producing same. A. Oakes. No. 1,399,364; Dec. 6.
- Electrical switches. Center stop and outside lock-off for. A. P. Ball. No. 1,383,781; July 5; v. 288; p. 109.
- Electrical switches. Center stop and outside lock-off for. B. D. Horton. No. 1,383,541; July 5; v. 288; p. 58.
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- Electrical system. H. P. Clausen. No. 1,393,503; Oct. 11.
- Electrical system. E. A. Hanff. No. 1,379,686; May 31; v. 286; p. 886.
- Electrical system. E. A. Hanff. No. 1,396,835; Nov. 15.
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- Electrical system. E. S. Lammers, Jr. No. 1,396,853; Nov. 15.
- Electrical system. J. K. Leibing. No. 1,368,946; Feb. 15; v. 283; p. 508.
- Electrical system. W. O. Lum. No. 1,367,155; Feb. 1; v. 283; p. 55.
- Electrical system. W. I. Thomson. No. 1,384,981; July 19; v. 288; p. 488.
- Electrical system. E. W. Pragst. No. 1,378,557; May 17; v. 286; p. 525.
- Electrical system. C. R. Young. No. 1,396,309; Nov. 8.
- Electrical system and control therefor. A. R. Bullock. No. 1,375,486; Apr. 19; v. 285; p. 510.
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- Electrical systems. Controlling device for. W. H. Mooney. No. 1,401,352; Dec. 27.
- Electrical tank-gage. E. C. Bartlett and J. E. Allison. No. 1,396,155; Nov. 8.
- Electrical testing-circuit. C. S. Demarest. No. 1,399,695; Dec. 6.
- Electrical testing system. G. W. Kuhn. No. 1,397,975; Nov. 22.
- Electrical testing system and apparatus. C. A. Anderson. No. 1,384,734; July 19; v. 288; p. 487.
- Electrical tool. C. S. Weyandt. No. 1,397,567; Nov. 22.
- Electrical transformer. H. L. Ide. No. 1,394,555; Oct. 25.
- Electrical transformer. C. H. Thordarson. No. 1,378,151; May 17; v. 286; p. 448.
- Electrical transformer system. F. Dessauer. No. 1,372,653; Mar. 22; v. 284; p. 719.
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- Electrical transmission system. E. Meitner. No. 1,391,652; Sept. 20; v. 290; p. 576.
- Electrical transmitting apparatus. H. K. Harris. No. 1,374,733; Apr. 12; v. 285; p. 303.
- Electrical uncapping-knife. H. C. Swann. No. 1,393,921; Oct. 18.
- Electrical variations. Apparatus for translating. P. C. Hewitt. No. 1,393,369; Oct. 11.
- Electrical wall-switch. E. Thompson. No. 1,389,713; Sept. 6; v. 290; p. 31.
- Electrical water-level-indicating apparatus and other electrical apparatus. Electrode for. W. D. Mickum. No. 1,398,270; Nov. 29.
- Electrical wave transmission. C. D. Ehret. No. 1,400,591; Dec. 20.
- Electrical wave transmission. Multiple antenna for. M. I. Pupin and E. H. Armstrong. No. 1,388,441; Aug. 23; v. 289; p. 674.
- Electrical welding-machines. Electrode for. T. E., Jr., and J. B. Murray. No. 1,399,307; Dec. 6.
- Electrically-heated appliance. L. French. No. 1,378,850; May 24; v. 286; p. 654.
- Electrically-heated article to avoid damage through overheating. G. H. Lofts. No. 1,382,101; June 21; v. 287; p. 448.
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- Electrically heating hand-irons. Device for. D. Donaldson. No. 1,401,592; Dec. 27.
- Electrode-holder. H. A. Casey. No. 1,400,418; Dec. 13.
- Electrically-operated brake. E. V. Hartford. No. 1,396,426; Nov. 8.
- Electrically-operated float-governed liquid control. J. A. Du Laney. No. 1,376,519; May 3; v. 286; p. 26.
- Electrically-operated speed-regulator. T. Douglass and W. T. Tabb. No. 1,390,510; Sept. 13; v. 290; p. 282.
- Electrically-operated systems. Safety device for. W. S. Smith. No. 1,393,404; Oct. 11.
- Electrically operating mechanism from a distance. A. Parshin. No. 1,397,449; Nov. 15.
- Electrically-welded work. Machine for cutting off fins from. H. S. Holmes. No. 1,382,193; June 21; v. 287; p. 465.
- Electrically welding tubing. Method of and apparatus for. F. L. Sessions. No. 1,365,198; Jan. 11; v. 282; p. 266.
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- Electricity transforming and converting apparatus. C. W. Stone and H. M. Hobart. No. 1,385,895; July 26; v. 288; p. 750.
- Electricity transformer and transforming and converting apparatus. H. M. Hobart. No. 1,394,901; Oct. 25.
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- Electrode, Insulated. R. Van Sandt and W. T. Williams. No. 1,390,819; Sept. 13; v. 290; p. 345.
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- Electrodes for electric accumulators, Making negative. A. Pouchain. No. 1,366,489; Jan. 25; v. 282; p. 601.
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- Electrodes or of pure retort-carbon, Manufacture of carbon. E. Szarvasy. No. 1,392,266; Sept. 27; v. 290; p. 774.
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- Electrolytic process and apparatus. M. M. Merritt. No. 1,387,425; Aug. 9; v. 289; p. 362.
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- Electromedical apparatus. W. H. Meyenberg. No. 1,376,378; Apr. 26; v. 285; p. 712.
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- Electron-discharge apparatus. A. W. Hull. No. 1,385,873; July 26; v. 288; p. 746.
- Electron-discharge device. A. W. Hull. No. 1,387,985; Aug. 16; v. 289; p. 525.
- Electron-tubes, Grid-circuits for. A. B. Clark. No. 1,385,777; July 26; v. 288; p. 726.
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- Electroplating apparatus and the like, Cylinder for. F. T. Taylor and W. F. Hall. No. 1,376,052; Apr. 26; v. 285; p. 650.
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- Electrotherapeutic apparatus. T. W. Gleeson. No. 1,400,149; Dec. 13.
- Electrotherapeutic apparatus. C. L. Ireland. No. 1,373,818; Apr. 5; v. 285; p. 85.
- Electrothermal relay. W. A. Rhodes. No. 1,399,226; Dec. 6.
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- Elevating and unloading device. F. Sibrava. No. 1,372,912; Mar. 29; v. 284; p. 813.
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- Elevator. A. C. Clark. No. 1,376,253; Apr. 26; v. 285; p. 688.
- Elevator. E. P. Collins. No. 1,371,354; Mar. 15; v. 284; p. 413.
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- Elevator. C. L. Langill. No. 1,365,252; Jan. 11; v. 282; p. 276.
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- Elevator. A. F. Meyer. No. 1,395,986; Nov. 1.
- Elevator. C. E. Ouillett. No. 1,392,078; Sept. 27; v. 290; p. 736.
- Elevator. G. Sellers. No. 1,369,305; Feb. 22; v. 283; p. 616.
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- Elevator-cars, Safety device for. J. Hoffer. No. 1,396,753; Nov. 15.
- Elevator, Casing-. A. J. Boyter. No. 1,396,317; Nov. 8.
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- Elevator-control system, Hydraulic-. H. C. Randall. No. 1,372,191; Mar. 22; v. 284; p. 631.
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- Elevator, conveyer, and crane. A. Godin. No. 1,396,193; Nov. 8.
- Elevator-door-operating device. L. E. Groat and F. F. Brush. No. 1,400,215; Dec. 13.
- Elevator-door-operating mechanism. C. L. Fulzhum. No. 1,392,320; Oct. 4.
- Elevator-doors, Door-opening device and lock for. F. A. Boedtker. No. 1,400,721; Dec. 20.
- Elevator, Grain-. H. K. Lininger. No. 1,381,570; June 14; v. 287; p. 289.
- Elevator hatch-doors, Device for operating freight-. J. E. W. Fogal and C. L. Fulghum. No. 1,378,017; May 17; v. 286; p. 422.
- Elevator-hatchway-door-operating device. M. Spinello. No. 1,393,918; Oct. 18.
- Elevator-loader. S. Olson. No. 1,367,081; Feb. 1; v. 283; p. 40.
- Elevator-locking device. A. F. Froussard. No. 1,376,687; May 3; v. 286; p. 57.
- Elevator-machines, Self-oiling bearing for. J. D. Schakel. No. 1,373,570; Apr. 5; v. 285; p. 37.
- Elevator, Portable. E. N. Hessecock. No. 1,381,532; June 14; v. 287; p. 285.
- Elevator-roll support. E. F. Huddle. No. 1,399,559; Dec. 6.
- Elevator safety apparatus. W. E. Boehck. No. 1,373,944; Apr. 5; v. 285; p. 110.
- Elevator safety device. F. D. Wilt. No. 1,373,285; Mar. 29; v. 284; p. 887.
- Elevator structure. A. F. Meyer. No. 1,395,985; Nov. 1.
- Elevator system. J. R. Jackson, Jr. No. 1,370,111; Mar. 1; v. 284; p. 67.
- Elevators, Dump for grain-. H. A. Peterson. No. 1,394,577; Oct. 25.
- Elevators, Governor for. J. Hoffer. No. 1,389,248; Aug. 30; v. 289; p. 886.
- Elevators, Raising and lowering device for. N. P. Julien. No. 1,366,079; Jan. 18; v. 282; p. 477.
- Elevators, Safety attachment for. G. J. Meyer. No. 1,386,194; Aug. 2; v. 289; p. 46.
- Elevators, Safety-catch for. G. Boggio. No. 1,368,103; Feb. 8; v. 283; p. 296.
- Elevators, Safety device for. J. H. Berghaus, Jr. No. 1,384,378; July 12; v. 288; p. 281.
- Elevators, Safety device for. D. Evangelist. No. 1,373,122; Mar. 29; v. 284; p. 854.
- Elevators, Safety device for. E. J. Fettinger. No. 1,390,111; Sept. 6; v. 290; p. 112.
- Elevators, Safety-door and door attachment for. G. J. Meyer. No. 1,377,213; May 10; v. 286; p. 215.
- Elevators, Safety mechanism for. J. Hoffer. No. 1,396,751; Nov. 15.
- Elevators, Safety mechanism for. W. Melvin. No. 1,375,227; Apr. 19; v. 285; p. 461.
- Elevators, Safety-stop for. A. Oprisak and J. Prokopowicz. No. 1,391,575; Sept. 20; v. 290; p. 561.
- Ellipsograph. H. Q. R. Crowder. No. 1,373,056; Mar. 29; v. 284; p. 841.
- Embalmer's drainage-tube. P. Thorhaus. No. 1,367,759; Feb. 8; v. 283; p. 231.
- Embalming fluid. G. Callodi. No. 1,386,157; Aug. 2; v. 289; p. 39.
- Embalming fluid. T. Speaber. No. 1,390,392; Sept. 13; v. 290; p. 259.
- Embalming process. V. Oppl. No. 1,364,450; Jan. 4; v. 282; p. 79.
- Embedding process. E. L. Wiegand. No. 1,398,410; Nov. 29.
- Embossing-die. E. E. Novotny. No. 1,377,507; May 10; v. 286; p. 272.
- Embossing-machine. M. H. Loughridge. No. 1,394,261; Oct. 18.
- Embossing machine, Can-. E. M. Peacock. No. 1,374,225; Apr. 12; v. 285; p. 205.
- Embossing-machine, Rotary. J. Merey. No. 1,368,956; Feb. 15; v. 283; p. 509.
- Embossing or printing die or plate and forming same. G. Siffert. No. 1,370,057; Mar. 1; v. 284; p. 57.
- Embossing-plate heater, Electric. S. M. Weatherly and H. J. Stach. No. 1,375,544; Apr. 19; v. 285; p. 521.
- Embossing-presses, Card-feeding device for. H. G. Turner. No. 1,370,169; Mar. 1; v. 284; p. 78.
- Embossing-presses, Micrometer-adjuster for. J. D. Lippmann. No. 1,390,799; Sept. 13; v. 290; p. 341.
- Embossing printing-press. F. Sabot. No. 1,367,565; Feb. 8; v. 283; p. 193.
- Embossing, stamping, or imprinting machine, Number. N. Leonard and V. Arkin. No. 1,368,169; Feb. 8; v. 283; p. 308.
- Embroidering. B. Hauser. No. 1,382,976; June 28; v. 287; p. 669.
- Embroidering mechanism. J. A. Groebli. No. 1,398,590; Nov. 29.
- Embroidering-machine. A. Balinky. No. 1,371,838; Mar. 15; v. 284; p. 507.
- Embroidering machine, Automatic hand-. M. Bassisty. No. 1,389,115; Aug. 30; v. 289; p. 860.
- Embroidering-machines, Shuttle for. P. R. Häussler. No. 1,399,056; Dec. 6.
- Embroidery. F. Crozet. No. 1,375,951; Apr. 26; v. 285; p. 631.
- Embroidery and similar work, Needle for hand. G. V. Pade and C. T. Neitzel. No. 1,371,977; Mar. 15; v. 284; p. 533.
- Embroidery-frame. V. Danisi. No. 1,392,123; Sept. 27; v. 290; p. 745.
- Embroidery-frame. W. Koller. No. 1,400,293; Dec. 13.
- Embroidery-hoop adjuster. C. Wilder. No. 1,364,599; Jan. 4; v. 282; p. 106.
- Embroidery-knife. L. Herzog. No. 1,379,920; May 31; v. 286; p. 930.
- Embroidery-machine. J. E. Hodgson. No. 1,395,961; Nov. 1.
- Embroidery-machine, Automatic. O. Fahrni. No. 1,378,668; May 17; v. 286; p. 547.
- Embroidery, Machine for cutting. A. Tscherne. No. 1,390,254; Sept. 6; v. 290; p. 139.
- Embroidery-machine, Hand. S. Fliegel. No. 1,364,498; Jan. 4; v. 282; p. 88.
- Embroidery-machines, Expanding frame for. K. Meyer. No. 1,397,322; Nov. 15.
- Embroidery-machines, Machine for perforating jacquard-cards for. O. Fahrni. No. 1,379,807; May 31; v. 286; p. 909.
- Embryotomy device. T. J. Shumate. No. 1,397,461; Nov. 15.
- Emergency-brake. J. C. Blaney. No. 1,384,589; July 12; v. 288; p. 325.
- Emergency-door-lock-operating mechanism. W. B. Bolles. No. 1,383,973; July 5; v. 288; p. 148.
- Emergency source of voltage. L. W. Chubb. No. 1,401,671; Dec. 27.
- Emery-cloth holder. H. Müller. No. 1,394,757; Oct. 25.
- Emery-wheel dresser. M. G. Dobbins. No. 1,395,098; Oct. 25.
- Emery-wheel dresser. C. E. Soderstrom. No. 1,395,606; Nov. 1.
- Emery-wheel-dressing tools, Cutter for. F. C. Brandenburg. No. 1,401,666; Dec. 27.
- Emery-wheels, Tool for dressing. F. C. Brandenburg. No. 1,387,040; Aug. 9; v. 289; p. 286.
- Emery-wheels, Tool for dressing. A. A. Glass. No. 1,387,847; Aug. 16; v. 289; p. 499.
- Emplacing apparatus. E. L. Wiegand. No. 1,387,029; Aug. 9; v. 289; p. 284.



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- Empty and load brake. T. H. Thomas. No. 1,394,049; Oct. 18.
- Emulsifier. W. G. Dixon. No. 1,382,765; June 28; v. 287; p. 629.
- Emulsifying-machine for continuous run. M. Larsen. No. 1,372,172; Mar. 22; v. 284; p. 627.
- Emulsion and producing it. E. M. Johansen. No. 1,373,661; Apr. 5; v. 285; p. 54.
- Emulsion-preventive. M. Zapf and G. Robertson. No. 1,380,512; June 7; v. 287; p. 36.
- Emulsion. Producing transparent. T. M. Rector. No. 1,389,161; Aug. 30; v. 289; p. 869.
- Emulsions. Apparatus for making. G. Mitchell. No. 1,393,632; Oct. 11.
- Emulsions. Apparatus for producing. J. B. McFadden. No. 1,396,376; Nov. 8.
- Emulsions. Making. J. A. DeCew. No. 1,370,884; Mar. 8; v. 284; p. 260.
- Emulsions. Resolving. P. T. Sharples. No. 1,373,773; Apr. 5; v. 285; p. 76.
- Enameling plates. R. H. Prichard. No. 1,381,736; June 14; v. 287; p. 321.
- Enameling ware. R. Roadhouse. No. 1,395,732; Nov. 1.
- End clip. C. A. Cook. No. 1,379,966; May 31; v. 286; p. 939.
- End-gate. L. E. Bieger. No. 1,384,228; July 12; v. 288; p. 250.
- End-gate. W. M. Gross. No. 1,367,377; Feb. 1; v. 283; p. 98.
- End-gate. D. E. Le Force. No. 1,371,036; Mar. 8; v. 284; p. 287.
- End-gate. W. Lawrence. No. 1,394,198; Oct. 18.
- End-gate. J. J. McCulloch. No. 1,386,882; Aug. 9; v. 289; p. 254.
- End-gate lock. M. F. Bohr. No. 1,399,842; Dec. 13.
- End-gate rod. J. M. Stevenson. No. 1,383,168; June 28; v. 287; p. 705.
- End-gates. Lever-lock for. C. F. Fehr. No. 1,400,483; Dec. 13.
- End-wrench. W. S. Webber. No. 1,390,408; Sept. 13; v. 290; p. 262.
- Endless bucket elevator. F. E. Townsend. No. 1,383,248; June 28; v. 287; p. 720.
- Endless-film reel. L. A. Wilson. No. 1,382,040; June 21; v. 287; p. 437.
- Endless-runner wheel. J. H. Knaggs. No. 1,367,820; Feb. 8; v. 283; p. 243.
- Energy variations. Method and means for translating. R. E. Hall. No. 1,378,345; May 17; v. 286; p. 484.
- Engine. See—
- |   |                                       |
|---|---------------------------------------|
| Air-cooled engine.                      | Radial engine.                        |
| Automobile-engine.                      | Reciprocating engine.                 |
| Beating-engine.                         | Rotary engine.                        |
| Cableway-operating engine.              | Rotary explosive-engine.              |
| Carding-engine.                         | Rotary gas-engine.                    |
| Combustion-engine.                      | Rotary internal-combustion engine.    |
| Compound engine.                        | Rotary steam-engine.                  |
| Crude-oil engine.                       | Semidiesel oil-engine.                |
| Cycle engine.                           | Six-stroke three-phase engine.        |
| Dental engine.                          | Sleeve-valve engine.                  |
| Double-piston engine.                   | Starter-engine.                       |
| Drive-engine.                           | Steam-engine.                         |
| Electric engine.                        | Steam pumping-engine.                 |
| Explosion-engine.                       | Steam-turbine engine.                 |
| Explosive-engine.                       | Stone-drilling engine.                |
| Fluid-pressure engine.                  | Toy engine.                           |
| Four-cycle internal-combustion engine.  | Traction-engine.                      |
| Gas-engine.                             | Tractor-engine.                       |
| Heat-engine.                            | Turbine engine.                       |
| Hydrocarbon-engine.                     | Two-cycle engine.                     |
| Internal-combustion engine.             | Two-cycle explosive-engine.           |
| Internal-combustion rotary engine.      | Two-cycle internal-combustion engine. |
| Liquid-fuel internal-combustion engine. | Two-cycle upright gas-engine.         |
| Logging-engine.                         | Two-stroke-cycle engine.              |
| Motorcycle-engine.                      | Uniflow engine.                       |
| Multicylinder explosive-engine.         | Valve-engine.                         |
| Oil-engine.                             | Winding-engine.                       |
| Piston-engine.                          | Winding or hoisting engine.           |
| Portable engine.                        | Windmill-power engine.                |
| Portable or semiportable steam-engine.  |                                       |
- Engine. E. R. Burtnett. No. 1,377,462; May 10; v. 286; p. 264.
- Engine. A. J. Culp. No. 1,376,516; May 3; v. 286; p. 26.
- Engine. F. J. Doyle. No. 1,390,281; Sept. 13; v. 290; p. 237.
- Engine. C. H. Frost. No. 1,376,267; Apr. 26; v. 285; p. 691.
- Engine. E. C. Hay. No. 1,389,505; Aug. 30; v. 289; p. 937.
- Engine. E. Hilton. No. 1,377,581; May 10; v. 286; p. 285.
- Engine. W. J. Hunter. No. 1,375,514; Apr. 19; v. 285; p. 515.
- Engine. J. D. Ingram. No. 1,393,785; Oct. 18.
- Engine. E. T. Kershaw. No. 1,365,500; Jan. 11; v. 282; p. 324.
- Engine. S. L. G. Knox. No. 1,378,875; May 24; v. 286; p. 659.
- Engine. H. M. Lochrane. No. 1,384,200; July 12; v. 288; p. 244.
- Engine. S. M. Neville. No. 1,373,199; Mar. 29; v. 284; p. 870.
- Engine. E. H. Palmer. No. 1,385,266; July 19; v. 288; p. 546.
- Engine. D. W. Short. No. 1,399,666; Dec. 6.
- Engine. P. van Vleck and H. Cooper. No. 1,385,027; July 19; v. 288; p. 497.
- Engine. G. P. White. No. 1,389,466; Aug. 30; v. 289; p. 930.
- Engine and radiator heater. J. R. Weston. No. 1,389,109; Aug. 30; v. 289; p. 859.
- Engine attachment. R. W. Harris. No. 1,382,285; June 21; v. 287; p. 483.
- Engine-base mounting. H. E. Schank. No. 1,371,325; Mar. 15; v. 284; p. 407.
- Engine-bed support. C. L. Roloson. No. 1,382,387; June 21; v. 287; p. 502.
- Engine. Combustion-. J. Good. No. 1,377,990; May 10; v. 286; p. 365.
- Engine construction. T. A. Hutsell. No. 1,375,049; Apr. 19; v. 285; p. 427.
- Engine construction. Internal-combustion. F. V. Hoogendijk. No. 1,400,746; Dec. 20.
- Engine control. Automatic. F. H. De Brun. No. 1,367,306; Feb. 1; v. 283; p. 84.
- Engine control. Emergency. P. Hentschke. No. 1,388,859; Aug. 30; v. 289; p. 808.
- Engine-controller. M. C. Cosgray. No. 1,397,503; Nov. 22.
- Engine-cooling means. E. I. Pearson. No. 1,399,871; Dec. 13.
- Engine-cooling systems. Means for introducing temperature-responsive elements into. H. Schlaich. No. 1,366,894; Jan. 25; v. 282; p. 682.
- Engine crank-cases. Device for indicating the level of oil in. A. T. Le Vesconte. No. 1,379,350; May 24; v. 286; p. 749.
- Engine-crosshead. G. F. Weir. No. 1,381,375; June 14; v. 287; p. 252.
- Engine-cylinder-burnishing tool. P. Bosch. No. 1,373,857; Apr. 5; v. 285; p. 93.
- Engine-cylinder dresser. O. Stroberger and R. E. Lee. No. 1,389,850; Sept. 6; v. 290; p. 58.
- Engine-cylinders and making same. Inlay for repair of scored. C. Hopper. No. 1,397,167; Nov. 15.
- Engine-cylinders. Machine for grinding and rebor-ing. W. J. Jackson. No. 1,394,836; Oct. 25.
- Engine-drive. E. A. Ford. No. 1,398,260; Nov. 29.
- Engine-frame. P. J. M. Sullivan. No. 1,382,811; June 28; v. 287; p. 637.
- Engine ignition systems. Testing apparatus for internal-combustion-. G. L. Hogan. No. 1,372,751; Mar. 29; v. 284; p. 780.
- Engine-indicator. L. E. Hunt. No. 1,376,883; May 3; v. 286; p. 96.
- Engine intake attachment. F. P. Mies and F. W. Jarvis. No. 1,380,824; June 7; v. 287; p. 96.
- Engine. Internal-combustion. G. A. Spelts, Jr. No. 1,396,976; Nov. 15.
- Engine. Internal-combustion. F. R. Sunderman and W. H. Shimpf. No. 1,388,444; Aug. 23; v. 289; p. 674.
- Engine-lifter. C. C. Chase. No. 1,401,138; Dec. 27.
- Engine-lubricating device. P. F. Rice. No. 1,394,117; Oct. 18.
- Engine-lubricating system. A. P. Brush. No. 1,386,154; Aug. 2; v. 289; p. 38.
- Engine manifold. Explosive-. L. E. Johnson. No. 1,392,168; Sept. 27; v. 290; p. 754.
- Engine-mechanism assembly. W. C. Heath. No. 1,393,778; Oct. 18.
- Engine-mounting. H. E. Schank. No. 1,391,697; Sept. 27; v. 290; p. 658.
- Engine muffler. Internal-combustion-. H. Gibson. No. 1,377,472; May 10; v. 286; p. 266.
- Engine or motor. G. W. Gill. No. 1,392,322; Oct. 4.
- Engine or motor. H. V. J. Joffret. No. 1,401,784; Dec. 27.
- Engine-overhauling stand. W. R. Van Trump. No. 1,387,566; Aug. 16; v. 289; p. 442.
- Engine piston-ring. J. R. French. No. 1,367,468; Feb. 1; v. 283; p. 117.
- Engine-primer. D. V. Smith. No. 1,367,925; Feb. 8; v. 283; p. 262.
- Engine or pump. Rotary. J. H. Whiting. No. 1,368,869; Feb. 15; v. 283; p. 493.
- Engine or pump. Rotary. C. H. Varley. No. 1,378,065; May 17; v. 286; p. 432.
- Engine. Rotary. B. M. Lupton, Jr. No. 1,393,802; Oct. 18.
- Engine shut-off. Float-controlled. B. S. Williams. No. 1,401,383; Dec. 27.
- Engine spark-plugs and other purposes. Electrical connector for. V. Bardin. No. 1,390,481; Sept. 13; v. 290; p. 276.
- Engine-stand. R. E. Manley. No. 1,380,573; June 7; v. 287; p. 47.
- Engine-starter. J. W. Esterline and D. J. Angus. No. 1,388,178; Aug. 23; v. 289; p. 619.
- Engine-starter. A. J. Hanson. No. 1,394,619; Oct. 25.
- Engine-starter. W. Holt. No. 1,373,330; Mar. 29; v. 284; p. 896.
- Engine-starter. W. L. McGrath. Nos. 1,396,517-19; Nov. 8.



- Engine-starter. W. L. McGrath. No. 1,401,170; Dec. 27.  
 Engine-starter. H. E. Van Ness. No. 1,375,870; Apr. 26; v. 285; p. 615.  
 Engine-starter. M. P. Whitney. No. 1,392,995; Oct. 11.  
 Engine-starter. M. P. Whitney. Nos. 1,396,695-6; Nov. 8.  
 Engine-starters, Carbureted-air distributor for explosion-. E. P. Dumanois. No. 1,396,322; Nov. 8.  
 Engine-starting apparatus. L. M. Wolffsohn. No. 1,393,595; Oct. 11.  
 Engine-starting device, Internal-combustion-. H. C. Hanna. No. 1,365,489; Jan. 11; v. 282; p. 322.  
 Engine-starting system. W. A. Chryst. No. 1,386,816; Aug. 2; v. 289; p. 71.  
 Engine-starting system. C. F. Kettering and W. A. Chryst. No. 1,391,194; Sept. 20; v. 290; p. 483.  
 Engine-stopping device. W. F. Webb. No. 1,387,746; Aug. 16; v. 289; p. 478.  
 Engine-support. E. F. du Pont. No. 1,376,520; May 3; v. 286; p. 27.  
 Engine-support. J. C. Theberath. No. 1,384,169; July 12; v. 288; p. 238.  
 Engine-support clamp. G. F. Zucker. No. 1,373,546; Apr. 5; v. 285; p. 33.  
 Engine-tester. I. Montilijo. No. 1,396,454; Nov. 8.  
 Engine timer. N. Isachsen. No. 1,397,005; Nov. 15.  
 Engine, which may be directly reversed, Internal-combustion-. H. H. Blache. No. 1,399,723; Dec. 6.  
 Engines, Accelerator for. P. E. Vineyard. No. 1,384,415; July 12; v. 288; p. 289.  
 Engines, Air-cooling system for gas-. D. L. Harris. No. 1,397,047; Nov. 15.  
 Engines, Air-cooling system for internal-combustion. A. H. Fox. No. 1,367,810; Feb. 8; v. 283; p. 240.  
 Engines, Air-heater for automobile. O. W. Moore. No. 1,371,509; Mar. 15; v. 284; p. 444.  
 Engines, Air-heater for internal-combustion. B. B. Block. No. 1,400,015; Dec. 13.  
 Engines, Air-inlet valve for internal-combustion. J. Cyty. No. 1,369,627; Feb. 22; v. 285; p. 680.  
 Engines, Air-mixing attachment for auto-. H. Coleman. No. 1,372,939; Mar. 29; v. 284; p. 819.  
 Engines, Air-preheater for explosive-. S. S. Staley and M. W. Collet. No. 1,387,328; Aug. 9; v. 289; p. 343.  
 Engines, Air-regulating device for internal-combustion. R. Abram. No. 1,400,506; Dec. 20.  
 Engines, Air-washer for internal-combustion. P. S. Tice. No. 1,379,062; May 24; v. 286; p. 694.  
 Engines and other machinery, Means for cooling internal-combustion. A. Henning. No. 1,383,270; June 28; v. 287; p. 724.  
 Engines and turbines, System of supplying explosive mixture to. A. Schwarz. No. 1,384,570; July 12; v. 288; p. 321.  
 Engines, Apparatus for cranking or starting internal-combustion. R. A. Miller-Argue. No. 1,396,647; Nov. 8.  
 Engines, Apparatus for driving magnetos in connection with internal-combustion. A. Maire. No. 1,387,285; Aug. 9; v. 289; p. 333.  
 Engines, Apparatus for starting internal-combustion. J. W. Jepson. No. 1,388,864; Aug. 30; v. 289; p. 810.  
 Engines, Atomizing device for internal-combustion. J. M. Meyer. No. 1,381,730; June 14; v. 287; p. 319.  
 Engines, Attachment for. F. E. Dunn. No. 1,383,087; June 28; v. 287; p. 690.  
 Engines, Attachment for. O. P. Taylor. No. 1,377,608; May 10; v. 286; p. 290.  
 Engines, Attachment for hydrocarbon-. T. R. Turner and J. A. Nesbitt. No. 1,398,406; Nov. 29.  
 Engines, Attachment for internal-combustion. A. J. Abel. No. 1,380,173; May 31; v. 286; p. 978.  
 Engines, Attachment to beating. J. A. De Cew. No. 1,377,616; May 10; v. 286; p. 292.  
 Engines, Attachment for internal-combustion. H. B. Higgins, Jr. No. 1,376,276; Apr. 26; v. 285; p. 693.  
 Engines, Attachment for internal-combustion. H. B. Higgins, Jr. No. 1,376,277; Apr. 26; v. 285; p. 693.  
 Engines, Attachment for internal-combustion. B. M. Little. No. 1,394,747; Oct. 25.  
 Engines, Automatic cut-off for gasoline-. A. J. and C. I. Cleveland. No. 1,374,635; Apr. 12; v. 285; p. 284.  
 Engines, Automatic governing mechanism for internal-combustion. W. B. S. Whaley. No. 1,389,801; Sept. 6; v. 290; p. 48.  
 Engines, Automatic operating means for internal-combustion. H. K. Cowen. No. 1,386,844; Aug. 9; v. 289; p. 247.  
 Engines, Automatic primer for gasoline-. H. D. Waterhouse. No. 1,365,755; Jan. 18; v. 282; p. 413.  
 Engines, Automatic safety-stop for steam-. G. J. Selk. No. 1,381,756; June 14; v. 287; p. 324.  
 Engines, Automatic speed-governor for internal-combustion. R. A. Oglesby. No. 1,390,376; Sept. 13; v. 290; p. 255.  
 Engines, Automatic vacuum oil-feed for internal-combustion. P. Schindler. No. 1,387,738; Aug. 16; v. 289; p. 476.  
 Engines, Automatically-adjustable exhaust-nozzle for locomotive-. J. Trotter. No. 1,390,401; Sept. 13; v. 290; p. 260.  
 Engines, Auxiliary air-inlet for. F. F. Lippoldt. No. 1,370,459; Mar. 1; v. 284; p. 134.  
 Engines, Auxiliary air-intake for internal-combustion. D. Dunlop and J. D. Davis. (Reissue.) No. 15,103; July 26; v. 288; p. 766.  
 Engines, Auxiliary air-intake for internal-combustion. J. Bacon. No. 1,397,349; Nov. 15.  
 Engines, Auxiliary ignition system for gas-. R. R. Shaw. No. 1,394,944; Oct. 25.  
 Engines, Auxiliary valve for internal-combustion. C. M. Dyer. No. 1,373,119; Mar. 29; v. 284; p. 853.  
 Engines, Battery ignition for internal-combustion. G. Honold. No. 1,377,482; May 10; v. 286; p. 268.  
 Engines by means of acetylene, Apparatus for operating internal-combustion. J. Sieber. No. 1,376,786; May 3; v. 286; p. 76.  
 Engines, Carbon-removing means for internal-combustion. F. P. Howard. No. 1,395,571; Nov. 1.  
 Engines, Carburetor-control means for gas-. T. Redfern. No. 1,399,519; Dec. 6.  
 Engines, Carburetor for internal-combustion. A. Weiland. No. 1,383,044; June 28; v. 287; p. 682.  
 Engines, Carbureting air for internal-combustion. J. M. Schutz. No. 1,397,744; Nov. 22.  
 Engines, Charge-forming device for internal-combustion. A. Schmid. No. 1,369,551; Feb. 22; v. 283; p. 664.  
 Engines, Charge-humidifying device for internal-combustion. A. S. Kincaid. No. 1,397,837; Nov. 22.  
 Engines, Combined gas and steam system for. T. A. Killman. No. 1,373,509; Apr. 5; v. 285; p. 26.  
 Engines, Combined manifold and rotary distributing-valve for internal-combustion. J. S. Taylor. No. 1,378,431; May 17; v. 286; p. 501.  
 Engines, Combined primer and humidifier for automobile-. F. Conway. No. 1,374,436; Apr. 12; v. 285; p. 246.  
 Engines, Combined primer and automatic auxiliary air-valve for internal-combustion. P. H. Grimm, F. L. Cocks, and O. C. Duryea. No. 1,378,449; May 17; v. 286; p. 504.  
 Engines, Composition of matter for lubricating internal-combustion. L. B. Lockhart. No. 1,369,678; Feb. 22; v. 283; p. 690.  
 Engines, compressors, &c., Process and machine for making crank-shafts for. L. I. Yeomans. No. 1,378,642; May 17; v. 286; p. 541.  
 Engines, Connecting rod for internal-combustion. A. Maire. No. 1,368,479; Feb. 8; v. 283; p. 310.  
 Engines, Connecting-rod of radial cylinder-. B. D. Scott. No. 1,367,720; Feb. 8; v. 283; p. 223.  
 Engines, Controlling mechanism for internal-combustion. R. Hildebrand. No. 1,376,619; May 3; v. 286; p. 45.  
 Engines, Construction for traction-. E. E. Wickersham. No. 1,395,024; Oct. 25.  
 Engines, Cooling and indicating system for internal-combustion. A. M. Wolf. No. 1,400,925; Dec. 20.  
 Engines, Cooling device for explosive-. H. R. Stuart. No. 1,389,395; Aug. 30; v. 289; p. 916.  
 Engines, Cooling-jacket for internal-combustion. G. H. Taggard. No. 1,358,381; Aug. 2; v. 289; p. 82.  
 Engines, Cooling means for internal-combustion. J. D. Houston. No. 1,391,188; Sept. 20; v. 290; p. 482.  
 Engines, Cooling means for internal-combustion. R. A. Moore. No. 1,388,965; Aug. 30; v. 289; p. 830.  
 Engines, Cooling means for motor-vehicle. G. L. Schofield. No. 1,396,785; Nov. 15.  
 Engines, Cooling of internal-combustion. E. Becker. No. 1,371,543; Mar. 15; v. 284; p. 451.  
 Engines, Cooling system for automobile-. R. F. Crawford. No. 1,400,805; Dec. 20.  
 Engines, Cooling system for internal-combustion. J. V. Giesler. No. 1,382,498; June 21; v. 287; p. 524.  
 Engines, Crank-case breather for internal-combustion. H. C. Miller. No. 1,367,164; Feb. 1; v. 283; p. 56.  
 Engines, Cranking device for internal-combustion. B. H. Smith and J. C. Warner. No. 1,375,117; Apr. 19; v. 285; p. 440.  
 Engines, Current-distributor for internal-combustion. H. D. Waterhouse. No. 1,379,584; May 24; v. 286; p. 792.  
 Engines, Cut-out for internal-combustion. H. W. Hartel. No. 1,383,400; July 5; v. 288; p. 30.  
 Engines, Cylinder-head for internal-combustion. R. Hildebrand. No. 1,376,620; May 3; v. 286; p. 46.  
 Engines, Cylinder-head for internal-combustion. R. Hildebrand. No. 1,376,621; May 3; v. 286; p. 46.  
 Engines, Cylinder for internal-combustion. A. H. R. Fedden and L. F. G. Butler. No. 1,398,849; Nov. 29.  
 Engines, Cylinder of combustion-. T. B. Murray. No. 1,393,636; Oct. 11.  
 Engines, Cylinder of internal-combustion. A. J. Rowledge. No. 1,375,110; Apr. 19; v. 285; p. 438.  
 Engines, Device for heating the intake-manifolds of internal-combustion. H. L. Smith. No. 1,386,904; Aug. 9; v. 289; p. 259.  
 Engines, Device for removing valves from internal-combustion. E. E. Ashmun. No. 1,383,057; June 28; v. 287; p. 684.  
 Engines, Device for starting internal-combustion. S. L. Price. No. 1,379,361; May 24; v. 286; p. 751.  
 Engines, Device for truing crank-shafts of. H. G. Kuper. No. 1,378,799; May 17; v. 286; p. 572.  
 Engines, Electric starter for internal-combustion. A. H. Midgley. No. 1,368,741; Feb. 15; v. 283; p. 469.



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- Engines, Electric starting system for internal-combustion. F. Kratz and G. Honold. No. 1,368,635; Feb. 15; v. 283; p. 448.
- Engines, Electrical ignition apparatus for internal-combustion. F. Billon. No. 1,386,231; Aug. 2; v. 289; p. 54.
- Engines, Electrical system for. C. F. Kettering and W. A. Chryst. No. 1,401,337; Dec. 27.
- Engines, Exhaust-valve box of internal-combustion. H. Pilling. No. 1,383,147; June 28; v. 287; p. 701.
- Engines from dead-centers, Means for moving the drive-shafts of steam-. S. E. Manning. No. 1,390,536; Sept. 13; v. 290; p. 288.
- Engines, Fuel cut-out and compression-release for gas-. H. L. Seward and R. E. Hale. No. 1,393,838; Oct. 18.
- Engines, Fuel-feed for internal-combustion. E. R. Harris. No. 1,376,201; Apr. 26; v. 285; p. 678.
- Engines, Fuel-heater for internal-combustion. L. A. Couch. No. 1,389,029; Aug. 30; v. 289; p. 843.
- Engines, Fuel-injecting apparatus for internal-combustion. J. K. Moystad. No. 1,388,588; Aug. 23; v. 289; p. 701.
- Engines, Fuel-injection mechanism for internal-combustion. H. D. Bush. No. 1,386,049; Aug. 2; v. 289; p. 18.
- Engines, Fuel-injector for internal-combustion. S. P. and H. A. Cowardin. No. 1,393,090; Oct. 11.
- Engines, Fuel-mixer for internal-combustion. J. B. Rebellet. No. 1,373,021; Mar. 29; v. 284; p. 835.
- Engines, Fuel-mixer for internal-combustion. E. Schmitt. No. 1,370,920; Mar. 8; v. 284; p. 266.
- Engines, Fuel-preheating device for internal-combustion. T. J. Little, Jr. No. 1,388,473; Aug. 23; v. 289; p. 679.
- Engines, Fuel-pump for internal-combustion. G. Large. No. 1,393,551; Oct. 11.
- Engines, Fuel-saver for. E. M. Flory. No. 1,390,897; Sept. 13; v. 290; p. 361.
- Engines, Fuel system for internal-combustion. A. Rosner. No. 1,372,194; Mar. 22; v. 284; p. 631.
- Engines, Fuel-supply of internal-combustion. W. H. Caldwell. No. 1,366,242; Jan. 18; v. 282; p. 509.
- Engines, Fuel-supply regulator for internal-combustion. R. E. Mathot. No. 1,373,666; Apr. 5; v. 285; p. 55.
- Engines, Fuel-supply system for internal-combustion. C. O. Hoffman and W. A. McKinnon. No. 1,395,412; Nov. 1.
- Engines, Fuel-supply system for internal-combustion. R. T. Stewart. No. 1,399,530; Dec. 6.
- Engines, Gas-mixer for internal-combustion. H. N. Eastman. No. 1,384,184; July 12; v. 288; p. 241.
- Engines, Gasoline-economizer for. C. O. Thompson. No. 1,366,973; Feb. 1; v. 283; p. 18.
- Engines, Generator attachment and timing means for gas-. H. Tiedemann. No. 1,371,276; Mar. 15; v. 284; p. 397.
- Engines, Governing device for internal-combustion. E. Moore. No. 1,388,743; Aug. 23; v. 289; p. 731.
- Engines, Governor for gas-. E. W. Baxter. No. 1,376,503; May 3; v. 286; p. 24.
- Engines, Governor for gas-. C. P. Hall. No. 1,394,826; Oct. 25.
- Engines, Governor for steam-. A. F. Christmas. No. 1,373,866; Apr. 5; v. 285; p. 95.
- Engines, Hand and foot accelerator for carburetors of automobile-. W. E. Clough. No. 1,398,625; Nov. 29.
- Engines, Heating and charging system for explosive-. J. W. Cox. No. 1,372,864; Mar. 29; v. 284; p. 803.
- Engines, Heating device for internal-combustion. D. G. Chisholm. No. 1,374,280; Apr. 12; v. 285; p. 215.
- Engines, Humidifier for internal-combustion. W. H. McBride. No. 1,365,114; Jan. 11; v. 282; p. 250.
- Engines, Ignition and combustion of combustibles in internal-combustion. H. Pieper. No. 1,398,944; Nov. 29.
- Engines, Ignition and lighting system for internal-combustion. E. A. Wise. No. 1,388,546; Aug. 23; v. 289; p. 692.
- Engines, Ignition and scavenging means for internal-combustion. F. Kahn. No. 1,401,706; Dec. 27.
- Engines, Ignition apparatus for aviation-. A. Maire. No. 1,375,256; Apr. 19; v. 285; p. 466.
- Engines, Ignition apparatus for internal-combustion. A. Dutreux. No. 1,397,861; Nov. 22.
- Engines, Ignition apparatus for internal-combustion. V. W. Klierath and F. A. Hoyt. No. 1,398,491; Nov. 29.
- Engines, Ignition apparatus for internal-combustion. C. T. Mason. No. 1,390,574; Sept. 13; v. 290; p. 295.
- Engines, Ignition device for internal-combustion. F. A. Smith. No. 1,375,424; Apr. 19; v. 285; p. 498.
- Engines, Ignition device for internal-combustion. H. R. Van Deventer. No. 1,370,934; Mar. 8; v. 284; p. 269.
- Engines, Ignition device for internal-combustion. R. A. Williams. No. 1,369,594; Feb. 22; v. 283; p. 673.
- Engines, Ignition device for internal-combustion. W. Gruenow. No. 1,380,797; June 7; v. 287; p. 91.
- Engines, Ignition device for internal-combustion. L. Sanchez. No. 1,393,702; Oct. 11.
- Engines, Ignition device for internal-combustion. F. A. Smith. No. 1,392,364; Oct. 4.
- Engines, Injector for internal-combustion. L. A. Charles. No. 1,400,264; Dec. 13.
- Engines, Ignition-magneto for internal-combustion. H. Andreino. No. 1,379,953; May 31; v. 286; p. 936.
- Engines, Ignition-magneto for internal-combustion. E. Viani. No. 1,366,222; Jan. 18; v. 282; p. 505.
- Engines, Ignition mechanism for combustion-. J. Jessen. No. 1,377,658; May 10; v. 286; p. 306.
- Engines, Ignition sparking-plug for internal-combustion. F. L. Rapson. No. 1,398,797; Nov. 29.
- Engines, Ignition system for. A. C. McCandless and D. L. Harris. No. 1,371,797; Mar. 15; v. 284; p. 500.
- Engines, Ignition system for internal-combustion. A. P. Kiedele. No. 1,370,670; Mar. 8; v. 284; p. 219.
- Engines, Induction-pipe for radial or rotary internal-combustion. A. H. K. Pedden and L. F. G. Butler. No. 1,395,980; Nov. 1.
- Engines, Internal-combustion. C. Y. Knight. No. 1,370,454; Mar. 1; v. 284; p. 133.
- Engines, Internal valve-gear for steam-. J. A. Le Cain. No. 1,390,625; Sept. 13; v. 290; p. 307.
- Engines, Intake-manifold for internal-combustion. A. Bachle. No. 1,379,327; May 24; v. 286; p. 745.
- Engines, Locking-valve for internal-combustion. A. A. Crossley. No. 1,382,480; June 21; v. 287; p. 520.
- Engines, Lubricating-alarm for. A. E. Buren and M. T. Henderson. No. 1,369,321; Feb. 22; v. 283; p. 619.
- Engines, &c., Lubricating apparatus for steam-. P. G. Darling. No. 1,370,953; Mar. 8; v. 284; p. 273.
- Engines, Lubricating device for internal-combustion. D. C. Heister. No. 1,391,734; Sept. 27; v. 290; p. 666.
- Engines, Lubricant-distributor for internal-combustion. W. L. Brown. No. 1,387,587; Aug. 16; v. 289; p. 446.
- Engines, Lubricating system for internal-combustion. W. R. Strickland. No. 1,384,873; July 19; v. 288; p. 465.
- Engines, Lubricating system for internal-combustion. E. P. du Pont. No. 1,391,722; Sept. 27; v. 290; p. 664.
- Engines, Magneto-driving arrangement for internal-combustion. A. W. Wall. No. 1,386,145; Aug. 2; v. 289; p. 37.
- Engines, Magneto for gas-. F. W. Andrew. No. 1,374,542; Apr. 12; v. 285; p. 266.
- Engines, Manifold for internal-combustion. A. Bachle. No. 1,397,482; Nov. 15.
- Engines, Manifold-lock for internal-combustion. W. F. Awe. No. 1,377,168; May 3; v. 286; p. 150.
- Engines, Means for absorbing power and determining the reaction on. L. F. R. Fell. No. 1,369,018; Feb. 22; v. 283; p. 561.
- Engines, Means for controlling admission and exhaust in double-acting explosion-. J. C. W. Lloyd. No. 1,388,352; Aug. 23; v. 289; p. 655.
- Engines, Means for controlling lubrication of. T. S. Kemble. No. 1,388,345; Aug. 23; v. 289; p. 654.
- Engines, Means for controlling the supply of liquid fuel to internal-combustion. H. Brooks. No. 1,365,301; Jan. 11; v. 282; p. 286.
- Engines, Means for cooling internal-combustion. P. J. Garrison. No. 1,396,953; Nov. 15.
- Engines, Means for fuel-feed for internal-combustion. W. F. Pagel. No. 1,371,260; Mar. 15; v. 284; p. 394.
- Engines, Means for reversing internal-combustion. H. Brooks. No. 1,373,484; Apr. 5; v. 285; p. 21.
- Engines, Means for supplying liquid fuel to the cylinders of internal-combustion. H. Kent-Norris. No. 1,373,176; May 17; v. 286; p. 453.
- Engines, Mechanical starter for explosive-. J. M. Michaelson. No. 1,395,926; Nov. 1.
- Engines, Mechanical starter for internal-combustion. H. J. Simpson. No. 1,395,472; Apr. 19; v. 285; p. 507.
- Engines, Mechanical starter for internal-combustion. F. D. Warner. No. 1,389,108; Aug. 30; v. 289; p. 858.
- Engines, Mechanism for driving cam-shafts of internal-combustion. H. R. Ricardo. No. 1,392,597; Oct. 4.
- Engines, Mechanism for starting gas-. T. Gendarme. No. 1,392,139; Sept. 27; v. 290; p. 748.
- Engines, Method of and apparatus for manipulating internal-combustion. C. G. Sprado. No. 1,399,900; Dec. 13.
- Engines, Method of and means for governing explosive-. J. S. Jennings, Jr. No. 1,379,186; May 24; v. 286; p. 717.
- Engines, Method of operating internal-combustion. J. Good. No. 1,377,989; May 10; v. 286; p. 365.
- Engines, Mixer for gas-. C. C. Brown. No. 1,398,063; Nov. 22.
- Engines, Mixing device for explosive-. J. H. Fritz. No. 1,394,820; Oct. 25.
- Engines, Mixing device for internal-combustion. H. C. Potter. No. 1,396,054; Nov. 8.
- Engines, Mixture-governing device for internal-combustion. P. S. Tice. No. 1,385,733; July 26; v. 288; p. 718.
- Engines, Multicylinder for cycle explosion-. C. A. S. Hanson. No. 1,391,473; Sept. 20; v. 290; p. 540.
- Engines or motor devices, Speed-governor for. L. A. Darling. No. 1,401,320; Dec. 27.
- Engines of motorcycles, Starting device for. A. Garelli. No. 1,366,531; Jan. 25; v. 282; p. 610.
- Engines of the sleeve-valve type, Valve of internal-combustion. W. G. Wilson. No. 1,368,203; Feb. 8; v. 283; p. 315.
- Engines, Oil-cooling system for explosive-. E. S. Cameron. No. 1,384,234; July 12; v. 288; p. 251.
- Engines, Oil-filter for gas-. E. E. Wells. No. 1,395,069; Oct. 25.
- Engines, Oil-pump and indicator device for. M. A. Thiel. No. 1,371,333; Mar. 15; v. 284; p. 409.



- Engines, Oil-pump for internal-combustion. F. W. Smith. No. 1,394,042; Oct. 18.
- Engines, Oil-pump for internal-combustion. D. M. White. No. 1,366,227; Jan. 18; v. 282; p. 506.
- Engines, Oiling device for internal-combustion. E. J. Gulick. No. 1,369,239; Feb. 22; v. 283; p. 604.
- Engines, Oiling system for. G. F. Nutting. No. 1,394,782; Oct. 25.
- Engines, Operating mechanism for explosion-. F. Gockerehl. No. 1,381,181; June 14; v. 287; p. 217.
- Engines, Operating mechanism for the ignition-generators of internal-combustion. G. Smith. No. 1,389,706; Sept. 6; v. 290; p. 29.
- Engines, Overhead rotary valve for internal-combustion. S. L. Wareham and J. F. Panzner. No. 1,384,416; July 12; v. 288; p. 289.
- Engines or other bearings which may require oil, Electric lubricator for lubricating the valves and cylinders of steam-. C. F. Hooper. No. 1,372,881; Mar. 29; v. 284; p. 807.
- Engines or pumps, Automatic pressure-operated valve for. M. J. Johns. No. 1,394,679; Oct. 25.
- Engines or pumps, Piston and cylinder construction for. H. J. Gebhardt. No. 1,364,929; Jan. 11; v. 282; p. 214.
- Engines, particularly applicable for use on air craft, Silencing device for internal-combustion. R. Blackburn. No. 1,373,221; Mar. 29; v. 284; p. 874.
- Engines, Piston, for internal-combustion. G. S. Fowler. No. 1,381,408; June 14; v. 287; p. 258.
- Engines, Piston for internal-combustion. G. S. Fowler. No. 1,399,106; Dec. 6.
- Engines, Piston for internal-combustion. H. R. Ricardo. No. 1,377,438; May 10; v. 286; p. 259.
- Engines, Piston for reciprocatory. S. D. Hartog. No. 1,398,689; Nov. 29.
- Engines, Primer and humidifier for internal-combustion. C. C. Eckhardt. No. 1,375,496; Apr. 19; v. 285; p. 512.
- Engines, Primer for internal-combustion. H. Blumenberg, Jr. No. 1,375,820; Apr. 26; v. 285; p. 605.
- Engines, Priming apparatus for internal-combustion. W. T. Bintliff. No. 1,369,608; Feb. 22; v. 283; p. 676.
- Engines, Process and apparatus for improving combustion in explosive-. W. W. Hales and A. Hine. No. 1,391,630; Sept. 20; v. 290; p. 572.
- Engines, Process and apparatus for the utilization of heat in oil-. H. R. Lucke. No. 1,382,995; June 28; v. 287; p. 672.
- Engines, Protected firing mechanism for internal-combustion. A. Peter. No. 1,388,969; Aug. 30; v. 289; p. 831.
- Engines, pumps, and compressors, Piston-operating mechanism for. A. W. Moody. No. 1,364,508; Jan. 4; v. 282; p. 90.
- Engines, Regulating blowing-. C. H. Smoot. No. 1,390,829; Sept. 13; v. 290; p. 347.
- Engines, Reversing-gear for. G. R. Smith. No. 1,370,924; Mar. 8; v. 284; p. 267.
- Engines, Reversing-gear for internal-combustion. J. F. Van Tuyl. No. 1,391,706; Sept. 27; v. 290; p. 660.
- Engines, Reversing-gear for internal-combustion. H. Wiederkehr. No. 1,394,243; Oct. 18.
- Engines, Rotor for multistage high-speed. P. Spiess. No. 1,399,816; Dec. 13.
- Engines, Saddle for. L. N. Clifton. No. 1,386,924; Aug. 9; v. 289; p. 263.
- Engines, Safety cranking device for gas-. M. E. Anderson. No. 1,369,952; Mar. 1; v. 284; p. 37.
- Engines, Safety device for. W. R. Eichenser. No. 1,391,724; Sept. 27; v. 290; p. 664.
- Engines, Safety-indicator for internal-combustion. G. S. Witham, Jr. No. 1,399,534; Dec. 6.
- Engines, Safety starting device for internal-combustion. R. A. Miller-Argue. No. 1,390,149; Sept. 6; v. 290; p. 119.
- Engines, Self-starting device for internal-combustion. F. L. Rapson. No. 1,398,796; Nov. 29.
- Engines, Separating useful products from the exhaust of internal-combustion. A. J. Paris, Jr. No. 1,388,480; Aug. 23; v. 289; p. 681.
- Engines, Silencer for internal-combustion. S. V. De Bolotoff. No. 1,370,197; Mar. 1; v. 284; p. 83.
- Engines, Silencer for internal-combustion. B. Carlen. No. 1,382,472; June 21; v. 287; p. 519.
- Engines, Spark-arrester for steam-. C. Bruce. No. 1,384,822; July 19; v. 288; p. 454.
- Engines, Spark-intensifier for gasoline-. W. G. Bennett. No. 1,368,686; Feb. 15; v. 283; p. 458.
- Engines, Spark-plug for internal-combustion. F. W. Soringer. No. 1,399,166; Dec. 6.
- Engines, Spark-plug serving also as compression and injection valve for internal-combustion. C. O. Landgrebe. No. 1,401,612; Dec. 27.
- Engines, Spray-nozzle for vertical Diesel. D. O. Barrett. No. 1,368,097; Feb. 8; v. 283; p. 294.
- Engines, Starter for. S. A. Ellett. No. 1,400,040; Dec. 13.
- Engines, Starter for. S. W. Rushmore. No. 1,384,971; July 19; v. 288; p. 485.
- Engines, Starter for automobile-. J. F. Collins. No. 1,400,266; Dec. 13.
- Engines, Starter for internal-combustion. McK. Barclay and F. W. Parkhill. No. 1,396,497; Nov. 8.
- Engines, Starter for internal-combustion. C. M. Dyer. No. 1,396,736; Nov. 15.
- Engines, Starting apparatus for internal-combustion. F. Kratz. No. 1,383,311; July 5; v. 288; p. 11.
- Engines, Starting device for explosion-. N. Herzmark. No. 1,366,180; Jan. 18; v. 282; p. 496.
- Engines, Starting internal-combustion. J. W. Jepson. No. 1,388,863; Aug. 30; v. 289; p. 810.
- Engines, Starting mechanism for gas-. F. Conrad. No. 1,370,005; Mar. 1; v. 284; p. 48.
- Engines, Starting mechanism for internal-combustion. G. J. Spohrer. No. 1,376,838; May 3; v. 286; p. 87.
- Engines, Stove for intake-manifolds of internal-combustion. S. I. Fekete. No. 1,393,994; Oct. 18.
- Engines, Stove for intake-manifolds of internal-combustion. S. I. Fekete. No. 1,396,363; Nov. 8.
- Engines, Stripping mechanism for traveling flats of carding-. R. T. Comer. No. 1,381,970; June 21; v. 287; p. 424.
- Engines, Supplemental air-intake device for gas-. J. H. Seek. No. 1,393,172; Oct. 11.
- Engines, Tappet-valve mechanism for internal-combustion. E. A. Nelson. No. 1,388,592; Aug. 23; v. 289; p. 702.
- Engines, Temperature-indicating device for internal-combustion. H. H. Boyce. No. 1,373,860; Apr. 5; v. 285; p. 94.
- Engines, Temperature-indicating device for water-cooling systems for internal-combustion. W. P. Hammond. (Reissue.) No. 15,063; Mar. 15; v. 284; p. 538.
- Engines, Thrust-bearing for internal-combustion. C. C. Fuller. No. 1,395,043; Oct. 25.
- Engines, Timer for internal-combustion. C. H. Bakemeyer. No. 1,378,833; May 24; v. 286; p. 651.
- Engines, Timer for internal-combustion. J. F. Meyer. No. 1,392,694; Oct. 4.
- Engines, Timer for internal-combustion. J. F. Sherbino. No. 1,391,984; Sept. 27; v. 290; p. 717.
- Engines, Transmission for. A. L. Powell. No. 1,384,335; July 12; v. 288; p. 272.
- Engines, Transmission for. A. L. Powell. No. 1,384,336; July 12; v. 288; p. 272.
- Engines, Transmission for. A. L. Powell. No. 1,384,337; July 12; v. 288; p. 273.
- Engines, Transmission for. A. L. Powell. No. 1,384,338; July 12; v. 288; p. 273.
- Engines, Transmission for. A. L. Powell. No. 1,384,339; July 12; v. 288; p. 273.
- Engines, Transmission for. A. L. Powell. No. 1,384,340; July 12; v. 288; p. 273.
- Engines, Transmission for. A. L. Powell. No. 1,384,341; July 12; v. 288; p. 274.
- Engines, Transmission for. A. L. Powell. No. 1,384,342; July 12; v. 288; p. 274.
- Engines, Transmission for. A. L. Powell. No. 1,384,343; July 12; v. 288; p. 274.
- Engines, Transmission for. A. L. Powell. No. 1,384,344; July 12; v. 288; p. 274.
- Engines, Transmission for. A. L. Powell. No. 1,384,345; July 12; v. 288; p. 275.
- Engines, Trouble-finder for internal-combustion. G. P. Castro. No. 1,378,937; May 24; v. 286; p. 671.
- Engines, Vacuum-feed tank for internal-combustion. L. Garnier. No. 1,374,442; Apr. 12; v. 285; p. 247.
- Engines, Vacuum fuel feed device for internal-combustion. C. S. Burton. No. 1,400,723; Dec. 20.
- Engines, Valve for explosion-. H. Furst. No. 1,384,058; July 12; v. 288; p. 215.
- Engines, Valve for internal-combustion. E. R. Burtnett. No. 1,394,248; Oct. 18.
- Engines, Valve for internal-combustion. J. D. Schweers. No. 1,400,006; Dec. 13.
- Engines, Valve-gear and control mechanism for. O. F. Carlson. No. 1,380,092; May 31; v. 286; p. 963.
- Engines, Valve-gear for internal-combustion. A. Scott. No. 1,383,163; June 28; v. 287; p. 704.
- Engines, Valve-gear for internal-combustion. A. J. Rowledge. No. 1,398,651; Nov. 29.
- Engines, Valve-gear for steam-. S. Rosenzweig. No. 1,384,854; July 19; v. 288; p. 461.
- Engines, Valve-gear for steam-. S. Rosenzweig. No. 1,384,855; July 19; v. 288; p. 462.
- Engines, Valve mechanism for internal-combustion. H. J. Carmody. No. 1,378,093; May 17; v. 286; p. 437.
- Engines, Valve mechanism for internal-combustion. W. A. James. No. 1,397,585; Nov. 22.
- Engines, Valve mechanism for internal-combustion. C. W. Pradeau. No. 1,383,998; July 5; v. 288; p. 153.
- Engines, Valve mechanism of internal-combustion. A. W. Wall. No. 1,401,294; Dec. 27.
- Engines, Valve-operating mechanism for internal-combustion. W. W. Douglas and S. L. Bailey. No. 1,399,941; Dec. 13.
- Engines, Valve-operating system for combustion-. O. Werner. No. 1,377,297; May 10; v. 286; p. 231.
- Engines, &c., Valve remover and lifter for internal-combustion. L. J. McKone. No. 1,397,763; Nov. 22.
- Engines, Valve-spring lifter for internal-combustion. G. T. Wroughton. No. 1,380,328; May 31; v. 286; p. 1007.
- Engines, Valvular arrangement of internal-combustion. G. R. Inshaw. No. 1,374,153; Apr. 5; v. 285; p. 151.



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- Engines, Vaporizer for internal-combustion. G. N. Barcus. No. 1,393,193; Oct. 11.
- Engines, Vaporizer for internal-combustion. A. F. Christmas. No. 1,384,686; July 12; v. 288; p. 346.
- Engines, Vaporizer for internal-combustion. W. Morgan. No. 1,368,186; Feb. 8; v. 283; p. 312.
- Engines, Vaporizer for internal-combustion. E. Peltowitz. No. 1,375,011; Apr. 19; v. 285; p. 419.
- Engines, Variable-lift fuel-valve for oil-. K. O. Keller. No. 1,396,935; Nov. 15.
- Engines, Water-cooling system for internal-combustion. A. M. Pareira. No. 1,373,445; Apr. 5; v. 285; p. 13.
- Engines, Water-pump for internal-combustion. J. W. Applin. No. 1,366,149; Jan. 18; v. 282; p. 490.
- Engines, Wiper-ring for the cylinders of internal-combustion. J. E. Megson. No. 1,368,447; Feb. 15; v. 283; p. 411.
- Engravers' plates for reproducing photographs in colors in newspapers, Making. C. B. Blethen. No. 1,364,238; Jan. 4; v. 282; p. 37.
- Engraving-block. H. Plummer. No. 1,397,293; Nov. 15.
- Engraving instrument, Portable electric. W. E. Stenning. No. 1,379,841; May 31; v. 286; p. 915.
- Engraving-machine. C. C. Bruckner. No. 1,371,665; Mar. 15; v. 284; p. 474.
- Engraving-machine. L. J. Most. No. 1,395,861; Nov. 1.
- Engraving-machine. C. R. Zimmerman. No. 1,388,687; Aug. 23; v. 289; p. 720.
- Ensilage-cutter. G. M. Merwin. No. 1,395,445; Nov. 1.
- Ensilage-distributor. J. G. Vogel. No. 1,389,402; Aug. 30; v. 289; p. 917.
- Ensilage, Storing and curing. W. H. Cushing. No. 1,390,341; Sept. 13; v. 290; p. 248.
- Envelop. J. P. De Vaughn. No. 1,385,248; July 19; v. 288; p. 542.
- Envelop. R. Hargreaves. No. 1,371,418; Mar. 15; v. 284; p. 426.
- Envelop. G. F. Hogan. No. 1,387,717; Aug. 16; v. 289; p. 472.
- Envelop. L. R. Jones. No. 1,384,837; July 19; v. 288; p. 458.
- Envelop. O. G. Klein. No. 1,401,792; Dec. 27.
- Envelop. P. J. Lemmer. No. 1,392,844; Oct. 4.
- Envelop. T. J. Norgell. No. 1,382,114; June 21; v. 287; p. 450.
- Envelop. L. J. Putney. No. 1,385,493; July 26; v. 288; p. 668.
- Envelop. E. J. Reilly. No. 1,385,471; July 26; v. 288; p. 664.
- Envelop. C. L. Robinson. No. 1,371,813; Mar. 15; v. 284; p. 502.
- Envelop. G. A. Sanborn. No. 1,397,880; Nov. 22.
- Envelop. A. H. Sweet. No. 1,371,403; Mar. 15; v. 284; p. 423.
- Envelop. W. E. Swift. No. 1,371,332; Mar. 15; v. 284; p. 408.
- Envelop. C. W. Tullar. No. 1,369,503; Feb. 22; v. 283; p. 655.
- Envelop and bag, Integral. W. E. Lover. No. 1,390,718; Sept. 13; v. 290; p. 324.
- Envelop and drinking cup, Combined. W. E. Lover. No. 1,364,999; Jan. 11; v. 282; p. 228.
- Envelop-album, Loose-leaf. A. W. Engel. No. 1,397,000; Nov. 15.
- Envelop check-book stub. E. S. Lindmark. No. 1,395,687; Nov. 1.
- Envelop, Clasp-. C. P. Kleebauer. No. 1,382,427; June 21; v. 287; p. 510.
- Envelop, Combined statement and return. R. Dority and H. W. Breining. No. 1,401,324; Dec. 27.
- Envelop, Display-. A. Levaure. No. 1,387,784; Aug. 16; v. 289; p. 486.
- Envelop, Double. C. E. Cather. No. 1,385,114; July 19; v. 288; p. 516.
- Envelop, Duplex. J. S. Caine. No. 1,381,793; June 14; v. 287; p. 331.
- Envelop-ejector. R. Stone. No. 1,390,175; Sept. 6; v. 290; p. 124.
- Envelop-fastener. C. H. Lovell. No. 1,393,801; Oct. 18.
- Envelop, film-. J. B. Garrett. No. 1,393,109; Oct. 11.
- Envelop-grip and pen or pencil rack. W. C. Heatlie. No. 1,375,509; Apr. 19; v. 285; p. 514.
- Envelop-machine. F. E. Arrouquier. No. 1,395,380; Nov. 1.
- Envelop-machine. G. Ball. No. 1,365,580; Jan. 11; v. 282; p. 340.
- Envelop-machine. N. E. Funk. No. 1,372,223; Mar. 22; v. 284; p. 637.
- Envelop-machine. T. Umeda. No. 1,375,618; Apr. 19; v. 285; p. 535.
- Envelop, Machine for making window-. S. Furman. No. 1,381,090; June 7; v. 287; p. 147.
- Envelop-making machine. J. P. Ramage. No. 1,393,162; Oct. 11.
- Envelop-making machine. J. Striss. No. 1,371,270; Mar. 15; v. 284; p. 396.
- Envelop-making machine and method. H. Y. Armstrong. No. 1,367,291; Feb. 1; v. 283; p. 81.
- Envelop-moistener. D. C. Rogers. No. 1,372,908; Mar. 29; v. 284; p. 812.
- Envelop-opener. A. R. Clear. No. 1,377,805; May 10; v. 286; p. 329.
- Envelop-opener. B. Fedorko. No. 1,400,946; Dec. 20.
- Envelop-opener. E. R. Fleming. No. 1,400,809; Dec. 20.
- Envelop, Pattern-. F. Hutter. No. 1,375,292; Apr. 19; v. 285; p. 473.
- Envelop, Record-. F. Wokoun. No. 1,397,477; Nov. 15.
- Envelop, Return-. J. Kuhhorn. No. 1,373,512; Apr. 5; v. 285; p. 26.
- Envelop roller folding-machine in combination with a closing-flap-gumming machine. A. Winkler and M. Dünnebler. No. 1,396,906; Nov. 15.
- Envelop, Safety-. H. Hahn and B. Lovie. No. 1,369,277; Feb. 22; v. 283; p. 611.
- Envelop, Safety-. G. Lattanzio. No. 1,375,968; Apr. 26; v. 285; p. 634.
- Envelop, Safety-. G. Pachko. No. 1,391,493; Sept. 20; v. 290; p. 544.
- Envelop, Safety-flap pocket registry-. L. W. Harding. No. 1,393,776; Oct. 18.
- Envelop-sealer. J. H. Byerley. No. 1,389,812; Sept. 6; v. 290; p. 50.
- Envelop sealer and stamper. S. J. Cirbus. No. 1,371,146; Mar. 8; v. 284; p. 309.
- Envelop-sealing machine. F. W. Storck. No. 1,365,803; Jan. 18; v. 282; p. 423.
- Envelop, Shipping-tag. C. Kleebauer. No. 1,382,426; June 21; v. 287; p. 510.
- Envelop-vending machine. C. W. Keenum. No. 1,394,429; Oct. 18.
- Envelops and other containers, Lock for. G. Douthey. No. 1,384,604; July 12; v. 288; p. 329.
- Envelops and the like, Machine for attaching strings to. A. Novick. No. 1,375,229; Apr. 19; v. 285; p. 461.
- Envelops, Delivery and return slip for. A. R. Schoreck. No. 1,378,903; May 24; v. 286; p. 664.
- Envelops, Machine for attaching string to. A. Novick. No. 1,388,594; Aug. 23; v. 289; p. 702.
- Envelops, Machine for closing and sealing. T. B. Lundin. No. 1,374,593; Apr. 12; v. 285; p. 276.
- Envelops or other surfaces, Device for severing and applying stamps or the like to. F. Kaspar. No. 1,388,817; Aug. 23; v. 289; p. 746.
- Envelops, Sealing. A. Nassano. No. 1,387,164; Aug. 9; v. 289; p. 310.
- Enzymic substance and making the same. J. and J., Jr., Takamine. No. 1,391,219; Sept. 20; v. 290; p. 488.
- Epsom salt, Composition for masking the acrid taste of. G. J. Hussman. No. 1,375,154; Apr. 19; v. 285; p. 447.
- Equalizer. H. M. Rockwell. No. 1,401,558; Dec. 27.
- Eraser and pencil holder. D. Bailey. No. 1,379,608; May 31; v. 286; p. 872.
- Eraser-cleaner. F. M. Schaefer. No. 1,399,888; Dec. 13.
- Eraser-holder. L. W. Faber. No. 1,373,062; Mar. 29; v. 284; p. 842.
- Erasers, Machine for cleaning blackboard-. J. K. Russell. No. 1,375,642; Apr. 19; v. 285; p. 540.
- Erasing and polishing device. O. K. Isensee. No. 1,379,922; May 31; v. 286; p. 930.
- Erasing device. J. H. Baldwin. No. 1,399,734; Dec. 13.
- Ergot and making same, Highly-active preparation of. A. Stoll. No. 1,394,233; Oct. 18.
- Escapement mechanism. A. Horgath. No. 1,372,024; Mar. 22; v. 284; p. 599.
- Escapement mechanism. C. Shapiro. No. 1,388,615; Aug. 23; v. 289; p. 706.
- Escutcheon, Adjustable. P. Mueller. No. 1,377,597; May 10; v. 286; p. 289.
- Esters, Apparatus for the manufacture of. A. A. Backhaus. No. 1,400,850; Dec. 20.
- Esters, Apparatus for the production of. A. A. Backhaus. No. 1,400,851; Dec. 20.
- Esters, Continuous process for the manufacture of. A. A. Backhaus. No. 1,400,849; Dec. 20.
- Esters, Production of. A. A. Backhaus. No. 1,400,852; Dec. 20.
- Etching apparatus. R. R. Robertson. No. 1,393,315; Oct. 11.
- Etching instrument, Electric. E. F. Hankin. No. 1,387,394; Aug. 9; v. 289; p. 356.
- Etching-machine. H. C. Allen. No. 1,389,284; Aug. 30; v. 289; p. 894.
- Etching-machine. H. Olsen. No. 1,383,010; June 28; v. 287; p. 675.
- Ether of ethenylparadoxy diphenylamidin, Unsaturated. J. Schuler. No. 1,384,637; July 12; v. 288; p. 336.
- Ether, Production of. C. S. Bradley. No. 1,385,040; July 19; v. 288; p. 499.
- Ethylene and other unsaturated hydrocarbons, Preparing. W. H. Ross. No. 1,392,852; Oct. 4.
- Evaporator. H. E. Curtis. No. 1,399,692; Dec. 6.
- Evaporator. J. C. Griere. No. 1,371,784; Mar. 15; v. 284; p. 497.
- Evaporator. T. M. Pusey. No. 1,371,115; Mar. 8; v. 284; p. 303.
- Evaporator. J. T. Wann. No. 1,375,431; Apr. 19; v. 285; p. 500.
- Evaporator. F. Witte. No. 1,373,041; Mar. 29; v. 284; p. 838.
- Evaporating apparatus. W. L. De Baufre. No. 1,390,677; Sept. 13; v. 290; p. 317.
- Evaporating apparatus. C. F. Purlinton. No. 1,376,578; May 3; v. 286; p. 38.



- Evaporating water, System for. W. L. De Baufre. No. 1,387,476; Aug. 16; v. 289; p. 423.
- Evaporator. J. H. Davis. No. 1,387,840; Aug. 16; v. 289; p. 497.
- Evaporator. B. S. Hughes. No. 1,393,221; Oct. 11.
- Evaporator. H. G. Schwarz. No. 1,385,499; July 26; v. 288; p. 670.
- Evaporator control. W. L. De Baufre. No. 1,387,475; Aug. 16; v. 289; p. 423.
- Evaporator-heating-unit-removing attachment. S. E. Bogdanffy. No. 1,396,316; Nov. 8.
- Evaporator, Rack-. F. Williams. No. 1,388,152; Aug. 16; v. 289; p. 557.
- Evaporator system, High-heat-level. S. Brown. No. 1,400,935; Dec. 20.
- Evaporators, particularly evaporators for drying fruit, Heating device for. F. Williams. No. 1,388,153; Aug. 16; v. 289; p. 557.
- Excavating and grading machine. E. R. Barnes. No. 1,379,845; May 31; v. 286; p. 916.
- Excavating and hoisting apparatus. T. Carlson. No. 1,387,042; Aug. 9; v. 289; p. 286.
- Excavating apparatus. P. E. Dutcher. No. 1,383,913; July 5; v. 288; p. 135.
- Excavating-bucket and operating means therefor. F. W. Bond. No. 1,398,222; Nov. 29.
- Excavating-machine. C. A. Doud. No. 1,391,532; Sept. 20; v. 290; p. 552.
- Excavating-machine. C. M. Hoffmeyer. No. 1,385,322; July 19; v. 288; p. 557.
- Excavating-machine. W. K. Liggett. No. 1,398,195; Nov. 22.
- Excavating-machine. S. Y. Monckton. No. 1,375,798; Apr. 26; v. 285; p. 601.
- Excavating-machine. H. A. Powers. No. 1,394,350; Oct. 18.
- Excavating-machine. J. Sommer. No. 1,376,837; May 3; v. 286; p. 87.
- Excavating-machine. W. M. Venable. No. 1,376,053; Apr. 26; v. 285; p. 650.
- Excavating-machine. A. H. Wellensiek. No. 1,387,875; Aug. 16; v. 289; p. 504.
- Excavating-machine, Convertible. H. H. Harris. No. 1,393,363; Oct. 11.
- Excavating-machines, Sight-arm attachment for. C. L. George. No. 1,395,810; Nov. 1.
- Excavating-wheel. H. S. Brown. No. 1,386,987; Aug. 9; v. 289; p. 275.
- Excavator. T. J. Freda. No. 1,380,790; June 7; v. 287; p. 89.
- Excavator. D. H. Thorn. No. 1,365,748; Jan. 18; v. 282; p. 412.
- Excavator, Boom-drag-line. W. H. Crawford. No. 1,401,319; Dec. 27.
- Excavator-dipper door. J. J. Greuling. No. 1,383,102; June 28; v. 287; p. 692.
- Excavator, Drag-line. A. S. Robinson. No. 1,377,278; May 10; v. 286; p. 228.
- Excavator, Power-driven post-hole. C. Skott, M. J. and E. J. Rogne. No. 1,376,045; Apr. 26; v. 285; p. 648.
- Excavator, Radial. D. C. McDonald. No. 1,367,160; Feb. 1; v. 283; p. 55.
- Excelsior, Treating. B. R. Beall. No. 1,389,340; Aug. 30; v. 289; p. 905.
- Exerciser and baby-walker, Invalid-. J. H. Scott and J. D. Whitcomb. No. 1,384,215; July 12; v. 288; p. 247.
- Exerciser and weighing-scale, Combined. C. A. Perry. No. 1,396,524; Nov. 8.
- Exercising apparatus. J. J. Cooper. No. 1,365,460; Jan. 11; v. 282; p. 317.
- Exercising apparatus. M. L. Dettinger, J. A. Wesker, and C. Shewell. No. 1,390,095; Sept. 6; v. 290; p. 109.
- Exercising apparatus. O. L. Samuelson. No. 1,386,206; Aug. 2; v. 289; p. 49.
- Exercising apparatus. H. Werndli. No. 1,374,697; Apr. 12; v. 285; p. 296.
- Exercising device. A. Matysek. No. 1,366,200; Jan. 18; v. 282; p. 500.
- Exercising device, Self-register. W. H. Hutter. No. 1,372,026; Mar. 22; v. 284; p. 600.
- Exhaust and gear casing, Combined. F. E. Gossett. No. 1,370,433; Mar. 1; v. 284; p. 128.
- Exhaust-box. A. R. Thompson. No. 1,387,629; Aug. 16; v. 289; p. 455.
- Exhaust-box. H. Schneebeli. No. 1,401,368; Dec. 27.
- Exhaust-silencer. J. Ernst. No. 1,388,107; Aug. 16; v. 289; p. 549.
- Exhaust-port, Auxiliary. H. J. Geake. No. 1,394,411; Oct. 18.
- Exhibiting apparatus. T. J. Mosure. No. 1,387,294; Aug. 9; v. 289; p. 335.
- Exhausting to low pressures, Apparatus for. O. E. Buckley. No. 1,371,734; Mar. 15; v. 284; p. 487.
- Exhauster. G. W. Christoph. No. 1,401,583; Dec. 27.
- Exhauster. H. S. Wheller. No. 1,391,645; Sept. 20; v. 290; p. 575.
- Exhibiting device. W. G. Blodgett and M. H. Roach. No. 1,393,747; Oct. 18.
- Exhibiting device. S. C. Vaughn. No. 1,375,619; Apr. 19; v. 285; p. 535.
- Exhibitor. J. M. Gurtler. No. 1,370,436; Mar. 1; v. 284; p. 129.
- Exhibitor, Automatic changeable. G. J. Selmeier. No. 1,368,061; Feb. 8; v. 283; p. 287.
- Exhibitor, Changeable. J. A. Greer. No. 1,373,384; Mar. 29; v. 284; p. 906.
- Exhibitor, Changeable. W. Z. Musgrave. No. 1,374,756; Apr. 12; v. 285; p. 307.
- Exhibitor, Changeable. W. L. Stein. No. 1,387,625; Aug. 16; v. 289; p. 454.
- Expanding post. W. Manderfeld. No. 1,370,334; Mar. 1; v. 284; p. 110.
- Expandible circular table. J. Seller. No. 1,384,925; July 19; v. 288; p. 475.
- Expandible septic tank. M. R. Hyman. No. 1,389,553; Aug. 30; v. 289; p. 947.
- Expansion-bit. G. P. Butler. No. 1,379,332; May 24; v. 286; p. 746.
- Expansion-bolt. J. C. Lovington. No. 1,372,708; Mar. 29; v. 284; p. 771.
- Extension-bolt. C. C. Roberts. No. 1,401,444; Dec. 27.
- Expansion-drill. D. S. Fox. No. 1,385,370; July 26; v. 288; p. 643.
- Expansion device or slip-joint. E. L. Barnes. No. 1,367,348; Feb. 1; v. 283; p. 93.
- Expansion device or slip-joint. E. L. Barnes. No. 1,367,349; Feb. 1; v. 283; p. 93.
- Expansion-joint. E. L. Barnes. No. 1,367,347; Feb. 1; v. 283; p. 92.
- Explosion-engine. M. Birkigt. No. 1,401,862; Dec. 27.
- Explosion-engine, Double-acting four-cycle. C. O. Loukus. No. 1,399,354; Dec. 6.
- Explosion-engines, Fuel-control system for. M. C. Bright. No. 1,374,983; Apr. 19; v. 285; p. 413.
- Explosion-motor. R. Buonocore and F. Capaldo. No. 1,373,862; Apr. 5; v. 285; p. 94.
- Explosion-motor. G. Jeantet. No. 1,386,572; Aug. 2; v. 289; p. 119.
- Explosion-motor. A. J. Kloneck. No. 1,371,905; Mar. 15; v. 284; p. 520.
- Explosions, Preventing. R. T. F. Dodds. No. 1,376,082; Apr. 26; v. 285; p. 656.
- Explosive. P. J. Gaffy. No. 1,399,472; Dec. 6.
- Explosive. B. F. Halvorsen. No. 1,375,588; Apr. 19; v. 285; p. 529.
- Explosive. W. Rintoul, T. J. Nolan, and O. W. Strickland. No. 1,392,851; Oct. 4.
- Explosive. W. O. Snelling. No. 1,382,563; June 21; v. 287; p. 536.
- Explosive. W. O. Snelling. No. 1,386,438; Aug. 2; v. 289; p. 93.
- Explosive. W. O. Snelling. No. 1,386,440; Aug. 2; v. 289; p. 93.
- Explosive. W. B. Sturgis. No. 1,393,463; Oct. 11.
- Explosive. G. Weber. No. 1,375,243; Apr. 19; v. 285; p. 464.
- Explosive. G. Weber. No. 1,397,826; Nov. 22.
- Explosive and making explosives. J. Barab. No. 1,371,215; Mar. 15; v. 284; p. 385.
- Explosive and making same. J. H. Babcock. No. 1,366,048; Jan. 18; v. 282; p. 471.
- Explosive and making same. E. Ott. No. 1,390,378; Sept. 13; v. 290; p. 256.
- Explosive and making same, High. W. R. Swint. No. 1,373,844; Apr. 5; v. 285; p. 90.
- Explosive and manufacturing it. C. I. Tistell. No. 1,393,984; Oct. 18.
- Explosive, and manufacturing same. W. O. Snelling. No. 1,395,775; Nov. 1.
- Explosive composition. W. C. Cope. No. 1,390,671; Sept. 13; v. 290; p. 316.
- Explosive composition. F. Olsen. No. 1,376,029; Apr. 26; v. 285; p. 646.
- Explosive compound. R. L. Hill and A. J. Strane. (Re-issue.) No. 1,375,155; July 19; v. 288; p. 563.
- Explosive compounds and products thereof, Making. C. M. Stine. No. 1,370,067; Mar. 1; v. 284; p. 59.
- Explosive, Detonating or disruptive. F. Olsen. No. 1,376,030; Apr. 26; v. 285; p. 646.
- Explosive-engine. D. F. Asbury. No. 1,396,912; Nov. 15.
- Explosive-engine. W. G. Johnston. No. 1,376,700; May 3; v. 286; p. 60.
- Explosive-engine. T. Keenan. No. 1,372,955; Mar. 29; v. 284; p. 822.
- Explosive-engine. J. R. Zygalski. No. 1,383,689; July 5; v. 288; p. 90.
- Explosive-engine, Multiple-cylinder. W. H. Gaskell, G. C. Dawson, and T. V. Lewis. No. 1,368,031; Feb. 8; v. 283; p. 282.
- Explosive-engines, Cranking or starting device for. H. V. Divine. No. 1,367,359; Feb. 1; v. 283; p. 95.
- Explosive-engines, Mechanism for controlling the admission of air and gasoline to. A. F. Schmidt. No. 1,375,610; Apr. 19; v. 285; p. 533.
- Explosive lock. C. A. Harbaugh. No. 1,390,704; Sept. 13; v. 290; p. 321.
- Explosive missile. R. T. Newton. No. 1,369,701; Feb. 22; v. 283; p. 694.
- Explosive-motors, Charge-heater for. G. A. Richards. No. 1,399,321; Dec. 6.
- Explosive-motors, Compression-regulators for. W. Guillon. No. 1,371,556; Mar. 15; v. 284; p. 454.



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- Explosive-motors, Means and method for supplying liquid fuel to. J. P. Remington. No. 1,373,911; Apr. 5; v. 285; p. 103.
- Explosive-motors, Means for supplying liquid fuel to. J. P. Remington. No. 1,373,912; Apr. 5; v. 285; p. 104.
- Explosive-motors, Means for supplying liquid fuel to. J. P. Remington. No. 1,373,913; Apr. 5; v. 285; p. 104.
- Explosive, Nitrostarch. W. O. Snelling. No. 1,386,437; Aug. 2; v. 289; p. 93.
- Explosive, Nitrostarch. C. E. Waller. No. 1,386,478; Aug. 2; v. 289; p. 100.
- Explosives, Aeronautical appliance for transporting and firing. W. R. Bowker. No. 1,400,261; Dec. 13.
- Explosives, Conductor for mine. R. L. Bowman. Nos. 1,395,791-2; Nov. 1.
- Explosives, Converting propellant powders into detonating. J. H. Hunter. No. 1,382,287; June 21; v. 287; p. 483.
- Explosives, Manufacture of. T. Hawkins. No. 1,398,098; Nov. 22.
- Explosives, Manufacture of nitrostarch. J. B. Bronstein. No. 1,398,931; Nov. 29.
- Explosives, Protective mixture for high. W. T. Scheele. No. 1,391,796; Sept. 27; v. 290; p. 678.
- Explosives, Removing and recovering solvent from nitrocellulose. F. W. Stetson and J. L. Essex. No. 1,393,713; Oct. 11.
- Explosives and products thereof, Producing desensitized. K. A. Gillespie. No. 1,370,015; Mar. 1; v. 284; p. 50.
- Explosively-actuated affixing device. R. Temple. No. 1,365,870; Jan. 18; v. 282; p. 437.
- Explosively-actuated penetrating means. R. Temple. No. 1,365,869; Jan. 18; v. 282; p. 436.
- Exposure-indicator. E. E. Underwood. No. 1,391,870; Sept. 27; v. 290; p. 693.
- Expressing-press. A. W. French. No. 1,387,700; Aug. 16; v. 289; p. 468.
- Expression-controlling device, Automatic. C. Freborg. No. 1,383,920; July 5; v. 288; p. 137.
- Extension adjustable handle. G. L. E. Klingbeil. No. 1,390,621; Sept. 13; v. 290; p. 306.
- Extension apparatus. J. G. Jackson. No. 1,368,934; Feb. 15; v. 283; p. 506.
- Extension-bit. P. Basmanson. No. 1,401,455; Dec. 27.
- Extension-rake, Adjustable. H. Saxl. No. 1,372,558; Mar. 22; v. 284; p. 701.
- Extension-table. G. Baldi. No. 1,376,246; Apr. 26; v. 285; p. 687.
- Extension-table. C. H. Gunn. No. 1,378,375; May 17; v. 286; p. 490.
- Extension-table. C. H. Gunn. No. 1,385,445; July 26; v. 288; p. 658.
- Extension-table. J. Hermans. No. 1,388,708; Aug. 23; v. 289; p. 724.
- Extension-table. F. Santoro. No. 1,392,527; Oct. 4.
- Extension-table. A. H. Stone. No. 1,397,665; Nov. 22.
- Extensometer. G. H. Benedict. No. 1,397,030; Nov. 15.
- Extensometer. F. F. Metzger. No. 1,382,663; June 28; v. 287; p. 609.
- Extract, Manufacture of solid soluble beverage. O. Roewade. No. 1,366,495; Jan. 25; v. 282; p. 602.
- Extracts, Apparatus for making. T. P. Tuite. No. 1,365,068; Jan. 11; v. 282; p. 240.
- Extracting apparatus. J. B. Jenson. No. 1,388,718; Aug. 23; v. 289; p. 726.
- Extracting-tool. H. P. Kraft. No. 1,389,667; Sept. 6; v. 290; p. 22.
- Extracting-tool. G. E. Legendre. No. 1,374,588; Apr. 12; v. 285; p. 275.
- Extracting and refining greasy substances contained in water, Apparatus for. E. Sepulchre. No. 1,396,889; Nov. 15.
- Extractor. *See*—
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| Citrus-fruit-juice extractor. | Nail-extractor.        |
| Citrus-juice extractor.       | Rug-extractor.         |
| Cork-extractor.               | Spike-extractor.       |
| Cotter-pin extractor.         | Stump-extractor.       |
| Cream-extractor.              | Well-casing extractor. |
| Honey-extractor.              |                        |
- Extraction of values from highly-dilute solutions. M. L. E. Baudin. No. 1,375,441; Apr. 19; v. 285; p. 502.
- Extractor. W. Bartholomew. No. 1,400,932; Dec. 20.
- Extractor. T. S. Patterson. No. 1,378,608; May 17; v. 286; p. 535.
- Extractors, Control of. S. Prestwich. No. 1,392,352; Oct. 4.
- Extricating device. J. McCutcheon; No. 1,401,092; Dec. 20.
- Extrusion-press. O. B. Jacobsen. No. 1,400,071; Dec. 13.
- Eye, Artificial. B. C. V. Bourdeaux. No. 1,379,741; May 31; v. 286; p. 896.
- Eye, Artificial. S. Fauer. No. 1,369,797; Mar. 1; v. 284; p. 8.
- Eye, Artificial. W. Wendtland. No. 1,373,579; Apr. 5; v. 285; p. 39.
- Eye, Device for removing foreign bodies from the. C. E. Bingham. No. 1,386,309; Aug. 2; v. 289; p. 69.
- Eye, Mechanical. D. Zaiden. No. 1,373,785; Apr. 5; v. 285; p. 78.
- Eye-protector. A. A. Arnold. No. 1,374,896; Apr. 19; v. 285; p. 397.
- Eye-protector. H. K. Parsons. No. 1,385,583; July 26; v. 288; p. 687.
- Eye-shade. W. K. Milne. No. 1,401,118; Dec. 20.
- Eye-shade. W. A. Carleton. No. 1,401,758; Dec. 27.
- Eye-testing chart. W. M. Updegrave. No. 1,391,084; Sept. 20; v. 290; p. 461.
- Eye-testing device. J. F. Giddens. No. 1,384,252; July 12; v. 288; p. 255.
- Eye-testing instrument. F. Hamilton. No. 1,389,755; Sept. 6; v. 290; p. 39.
- Eyes, Device for treating the. H. P. Umbesen. No. 1,388,621; Aug. 23; v. 289; p. 707.
- Eyeglass-chain reel. C. F. Denny. No. 1,376,262; Apr. 26; v. 285; p. 690.
- Eyeglass-frame. L. Arntz. No. 1,370,001; Mar. 1; v. 284; p. 47.
- Eyeglass-holder. V. E. Duncanson. No. 1,393,511; Oct. 11.
- Eyeglass-holder. I. T. Garner. No. 1,370,806; Mar. 8; v. 284; p. 246.
- Eyeglass-holder. J. A. Taylor. No. 1,376,234; Apr. 26; v. 285; p. 685.
- Eyeglass mount, Rimless. H. Newbold. No. 1,387,898; Aug. 16; v. 289; p. 508.
- Eyeglass-mounting. J. Brisacher. No. 1,370,626; Mar. 8; v. 284; p. 211.
- Eyeglass-mounting. W. T. Henderson. No. 1,367,966; Feb. 8; v. 283; p. 270.
- Eyeglass-mounting. C. L. Hogue. No. 1,385,828; July 26; v. 288; p. 737.
- Eyeglass-mounting. F. C. Merry. No. 1,395,199; Oct. 25.
- Eyeglass testing and display device, Combination. T. Z. Bassett. No. 1,384,226; July 12; v. 288; p. 250.
- Eyeglasses. O. Narum. No. 1,394,109; Oct. 18.
- Eyeglasses, Attachment for. L. J. Zimmerman. No. 1,395,625; Nov. 1.
- Eyeglasses, Construction for. S. J. Clulee. No. 1,366,768; Jan. 25; v. 282; p. 657.
- Eyeglasses, Head-frame for supporting. F. W. Haviland. No. 1,380,957; June 7; v. 287; p. 121.
- Eyeglasses, lenses, and other pieces, Grinding-machine for beveling the edges of. H. J. Birchall. No. 1,365,448; Jan. 11; v. 282; p. 316.
- Eyeglasses or spectacles. R. P. Erhard. No. 1,401,327; Dec. 27.
- Eyeglasses, Shell-rim fastener for. C. O. Carlson. No. 1,367,237; Feb. 1; v. 283; p. 71.
- Eyeglasses, Placquet for. H. Newbold. No. 1,380,005; May 31; v. 286; p. 946.
- Eyelet and hook setting machine. D. Heinsohn. No. 1,399,057; Dec. 6.
- Eyelet, Lacing-. M. Van Deusen. No. 1,381,949; June 21; v. 287; p. 421.
- Eyelets, Means for setting. F. L. Harmon. No. 1,379,688; May 31; v. 286; p. 887.
- Eyeteleing-machine. S. L. Gookin. No. 1,368,334; Feb. 15; v. 283; p. 389.
- Eyeteleing-machine. M. Rasmussen. No. 1,373,671; Apr. 5; v. 285; p. 56.
- Eyeshade. G. H. Tileston. No. 1,382,693; June 28; v. 287; p. 615.
- Fabric. *See*—
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| Aeroplane fabric.         | Mattress fabric.      |
| Bed-bottom fabric.        | Textile fabric.       |
| Cord fabric.              | Unwoven fabric.       |
| Cotton fabric.            | Wire fabric.          |
| Elastic fabric.           | Wire mattress fabric. |
| Embossed fabric.          | Woven fabric.         |
| Framework knitted fabric. |                       |
- Fabric. M. Katz. No. 1,393,025; Oct. 11.
- Fabric and its manufacture, Artificial textile. J. E. Brandenberger. No. 1,394,270; Oct. 18.
- Fabric and making same, Woven. F. H. Stewart. No. 1,368,213; Feb. 8; v. 283; p. 317.
- Fabric and rubber, Making articles of. H. F. Maranville. No. 1,382,208; June 21; v. 287; p. 468.
- Fabric articles, Machine for folding. M. Kelley. No. 1,376,942; May 3; v. 286; p. 107.
- Fabric-clasp. H. J. Reed. No. 1,365,850; Jan. 18; v. 282; p. 432.
- Fabric, Cord. G. W. Lindley. No. 1,374,668; Apr. 12; v. 285; p. 291.
- Fabric cutting and stitching machine. A. H. De Voe. No. 1,384,519; July 12; v. 288; p. 311.
- Fabric-cutting device. A. L. Berthelsen. No. 1,399,924; Dec. 13.
- Fabric, Embossed. R. E. Shiner. No. 1,384,808; July 19; v. 288; p. 452.
- Fabric for linings and other uses. H. I. Huey. No. 1,390,292; Sept. 13; v. 290; p. 239.
- Fabric frame, Pile-. P. W. Copeland. No. 1,400,529; Dec. 20.
- Fabric-laying apparatus. I. Segal. No. 1,389,906; Sept. 6; v. 290; p. 70.
- Fabric, Machine for applying plastic material to. E. H. Scribner and H. A. Bell. No. 1,364,211; Jan. 4; v. 282; p. 32.
- Fabric, Machine for piling. A. Tscherne. No. 1,390,253; Sept. 6; v. 290; p. 138.
- Fabric, Making embossed. R. E. Shiner. No. 1,379,703; May 31; v. 286; p. 889.



- Fabric-measuring and cost-computing machine. L. Ehrlich. No. 1,388,454; Aug. 23; p. 676.
- Fabric-measuring and cost-computing machine. D. Turner. No. 1,386,386; Aug. 2; v. 289; p. 83.
- Fabric-measuring and cost-computing machine. D. Turner. No. 1,392,723; Oct. 4.
- Fabric pieces, Plant for the treatment of. F. J. B. Knibbier. No. 1,365,175; Jan. 11; v. 282; p. 261.
- Fabric. Pile. F. Ott. No. 1,379,931; May 31; v. 286; p. 932.
- Fabric sections, Joining. G. E. Molyneaux. No. 1,384,845; July 19; v. 288; p. 460.
- Fabric-smoothing machine. R. McClenathen and J. Noall. No. 1,377,212; May 10; v. 286; p. 214.
- Fabric straightening and guiding device. H. Evans. No. 1,375,041; Apr. 19; v. 285; p. 425.
- Fabric strip, Composite. C. H. Crowell. No. 1,370,413; Mar. 1; v. 284; p. 124.
- Fabric, Terry or looped. P. Taylor. No. 1,398,752; Nov. 29.
- Fabric-treating machine, Textile; L. Clarenbach. No. 1,389,627; Sept. 6; v. 290; p. 13.
- Fabrics and yarns in rope for. Machinery for washing, saturating, and similarly treating textile. F. Roberts. No. 1,391,276; Sept. 20; v. 290; p. 500.
- Fabrics, Apparatus for finishing velvet and other nap. J. Cucumel. No. 1,390,093; Sept. 6; v. 290; p. 108.
- Fabrics, Apparatus for stretching. J. Thornber. No. 1,376,736; May 3; v. 286; p. 67.
- Fabrics, Apparatus for use in connection with machines for bleaching, dyeing, finishing, and otherwise treating. J. Thornber. No. 1,396,980; Nov. 15.
- Fabrics, Block-printing machine for. H. G. E. Agler. No. 1,384,934; July 19; v. 288; p. 477.
- Fabrics, Cleaning knitted or like. W. A. Ainsworth. No. 1,375,663; Apr. 26; v. 285; p. 577.
- Fabrics, Composition for removing rust from. J. E. Glott. No. 1,368,714; Feb. 15; v. 283; p. 463.
- Fabrics, Finishing-machine for pile. T. C. Barker. No. 1,368,096; Feb. 8; v. 283; p. 294.
- Fabrics, Finishing or lustring textile. J. B. Lomax. No. 1,393,296; Oct. 11.
- Fabrics, leather, and the like, Composition for waterproofing. W. J. McIntosh. No. 1,364,567; Jan. 4; v. 282; p. 100.
- Fabrics, Machine for making layer. F. Wever. No. 1,392,287; Sept. 27; v. 290; p. 778.
- Fabrics, Machine for raising nap on. J. Regout, Jr. No. 1,384,920; July 19; v. 288; p. 474.
- Fabrics, Machine for the simultaneous slitting and artificial selvaging of. H. L. Hutchinson. No. 1,368,933; Feb. 15; v. 283; p. 505.
- Fabrics, Manufacture of. M. Rosenstock. No. 1,366,705; Jan. 25; v. 282; p. 644.
- Fabrics, Method and machine for printing pile. A. F. McCollum. No. 1,377,083; May 3; v. 286; p. 134.
- Fabrics, Producing wool-like effects on cotton. G. A. Bossard. No. 1,400,016; Dec. 13.
- Fabrics suitable for the manufacturing of ceiling lath-work, baskets, receptacles, &c., Apparatus for the transformation of reeds into woven. P. de Guardia-Calmètes. No. 1,373,721; Apr. 5; v. 285; p. 66.
- Fabrics to objects, Applying coated. H. Gault. No. 1,394,890; Oct. 25.
- Fabrics to predetermined lengths, Machine for cutting. F. Kaschewski. No. 1,377,777; May 10; v. 286; p. 324.
- Fabrics, Weaving of pile. G. Koch. (Reissue.) No. 1,518,4; Aug. 30; v. 289; p. 951.
- Fabrics, Weaving pile. G. Koch. No. 1,382,516; June 21; v. 287; p. 527.
- Facing and pins therefor, Replaceable. G. E. Cox. No. 1,397,082; Nov. 15.
- Fan. K. Brainerd. No. 1,373,480; Apr. 5; v. 285; p. 20.
- Fan. A. W. Carlson. No. 1,370,284; Mar. 1; v. 284; p. 100.
- Fan. M. S. Dupont. No. 1,384,053; July 12; v. 288; p. 214.
- Fan. W. S. Hasskarl. No. 1,388,037; Aug. 16; v. 289; p. 535.
- Fan. R. A. Roscoe. No. 1,384,155; July 12; v. 288; p. 235.
- Fan. L. H. Sohn. No. 1,391,517; Sept. 20; v. 290; p. 549.
- Fan and blower, High-pressure suction. E. J. Blackmon. No. 1,386,548; Aug. 2; v. 289; p. 114.
- Fan and pump, Centrifugal. S. C. Davidson. No. 1,365,893; Jan. 18; v. 282; p. 441.
- Fan-blast regulator. A. Larson. No. 1,388,581; Aug. 23; v. 289; p. 699.
- Fan, Blower-. T. E. Ogle. No. 1,364,796; Jan. 4; v. 282; p. 144.
- Fan-casing. A. W. Carlson. No. 1,370,283; Mar. 4; v. 284; p. 100.
- Fan, Centrifugal. A. H. Candee. No. 1,378,008; May 17; v. 286; p. 420.
- Fan construction. H. Ford. No. 1,372,414; Mar. 22; v. 284; p. 674.
- Fan construction. D'O. M. White. No. 1,381,687; June 14; v. 287; p. 309.
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- Fan, Electric. G. H. Hohnsbeen. No. 1,374,658; Apr. 12; v. 285; p. 289.
- Fan-housing-cooling extension. H. H. Hart. (Reissue.) No. 1,517,8; Aug. 16; v. 289; p. 558.
- Fan or blower. E. L. Garfield. No. 1,381,819; June 14; v. 287; p. 336.
- Fan, Oscillating. P. de Clamecy. No. 1,390,762; Sept. 13; v. 290; p. 333.
- Fan, Oscillating. P. De Clamecy. No. 1,394,975; Oct. 25.
- Fan, Reversible. R. M. Murray. No. 1,384,672; July 12; v. 288; p. 344.
- Fan, Reversible engine-. A. Koenig. No. 1,368,808; Feb. 15; v. 283; p. 481.
- Fan, Rotary. C. C. Blackmore. No. 1,370,083; Mar. 1; v. 284; p. 62.
- Fan, Rotary pocket-. E. Schueller. No. 1,387,186; Aug. 9; v. 289; p. 314.
- Fan, Spring-motor. N. S. Chapman. No. 1,365,455; Jan. 11; v. 282; p. 316.
- Fans, Combined support, deflector, and housing for motor-driven. A. Schnee. No. 1,372,251; Mar. 22; v. 284; p. 643.
- Fans, Lubricating means for. L. Schwitzer. No. 1,381,671; June 14; v. 287; p. 307.
- Fans, Manufacturer of. P. H. Withington. No. 1,377,300; May 10; v. 286; p. 232.
- Fanlight-operating means. E. F. Willoughby. No. 1,365,757; Jan. 18; v. 282; p. 414.
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- Fare-box. E. H. Thompson. No. 1,364,156; Jan. 4; v. 282; p. 21.
- Fare-collecting box. A. Ruebsamen and W. L. Dennis. No. 1,394,941; Oct. 25.
- Fare receiving and registering apparatus. H. E. Reynolds. No. 1,401,732; Dec. 27.
- Fare-recording and transfer-issuing machine. H. G. Halverson. No. 1,384,130; July 12; v. 288; p. 230.
- Fare-register. L. Bonham. No. 1,372,655; Mar. 22; v. 284; p. 720.
- Farm-gate. I. D. Bate. No. 1,367,226; Feb. 1; v. 283; p. 68.
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- Farm-gate. T. Huston. No. 1,395,574; Nov. 1.
- Farm-gate. A. Oltman. No. 1,399,372; Dec. 6.
- Farm-gate. F. C. Rawley. No. 1,388,484; Aug. 23; v. 289; p. 682.
- Farm implement. A. Brunnert. No. 1,388,847; Aug. 30; v. 289; p. 806.
- Farm implement. G. W. and C. E. Goss. No. 1,389,652; Sept. 6; v. 290; p. 19.
- Farm implement. P. A. Organ. No. 1,401,434; Dec. 27.
- Farm implement. G. S. Stephensen. No. 1,364,900; Jan. 11; v. 282; p. 208.
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- Farm machinery, Operating mechanism for. T. W. Hicks. No. 1,369,431; Feb. 22; v. 283; p. 641.
- Farming implement, Power-driven. J. T. Hickman, Jr. No. 1,386,783; Aug. 9; v. 289; p. 234.
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- Farming-machines, Seat construction for. G. Marshall. No. 1,375,225; Apr. 19; v. 285; p. 460.
- Fascine mat. O. W. Stacy. No. 1,371,451; Mar. 15; v. 284; p. 433.
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- Fastener. F. S. Carr. No. 1,365,022; Jan. 11; v. 282; p. 232.
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- Fastener. F. S. Carr. No. 1,376,002; Apr. 26; v. 285; p. 640.
- Fastener. M. F. Carr. No. 1,365,023; Jan. 11; v. 282; p. 232.
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 Fastener and slug inserting machine. J. H. Bruninga. No. 1,394,467; Oct. 18.  
 Fastener and slug inserting machine. J. H. Bruninga and H. H. Reiss. No. 1,394,468; Oct. 18.  
 Fastener and slug inserting machine. S. A. Dobyne. No. 1,394,478; Oct. 18.  
 Fastener-applying device. F. Ellis. No. 1,367,363; Feb. 1; v. 283; p. 96.  
 Fastener, Baggage-. A. H. Malm and C. A. Marwedel. No. 1,370,218; Mar. 1; v. 284; p. 88.  
 Fastener, Ball-and-socket. L. S. Harvey. No. 1,376,765; May 3; v. 286; p. 72.  
 Fastener, Closure-. O. Stuart. No. 1,382,567; June 21; v. 287; p. 537.  
 Fastener, Dress-shield. W. Ahlmgren and H. C. Karlson. No. 1,371,593; Mar. 15; v. 284; p. 460.  
 Fastener elements, Attaching means for separable. A. Levine and L. Offerman. No. 1,397,382; Nov. 15.  
 Fastener-feeding mechanism. W. C. Stewart. No. 1,398,346; Nov. 29.  
 Fastener for closures. W. Loudon. No. 1,385,563; July 26; v. 288; p. 683.  
 Fastener-inserting machine. S. A. and J. C. Dobyne. No. 1,369,088; Feb. 22; v. 283; p. 575.  
 Fastener, Separable. A. G. Anderson. No. 1,387,115; Aug. 9; v. 289; p. 301.  
 Fastener, Separable. F. S. Carr. No. 1,387,102; Aug. 9; v. 289; p. 299.  
 Fastener, Separable. F. S. Carr. No. 1,387,103; Aug. 9; v. 289; p. 299.  
 Fastener, Separable. F. S. Carr. No. 1,387,107; Aug. 9; v. 289; p. 300.  
 Fastener, Separable. F. S. Carr. No. 1,387,108; Aug. 9; v. 289; p. 300.  
 Fastener, Separable. F. S. Carr. No. 1,387,109; Aug. 9; v. 289; p. 300.  
 Fastener, Separable. F. S. Carr. No. 1,387,116; Aug. 9; v. 289; p. 301.  
 Fastener, Separable. F. S. Carr. No. 1,387,117; Aug. 9; v. 289; p. 301.  
 Fastener, Separable. F. S. Carr. No. 1,387,118; Aug. 9; v. 289; p. 301.  
 Fastener, Separable. F. S. Carr. No. 1,387,119; Aug. 9; v. 289; p. 301.  
 Fastener, Separable. F. S. Carr. No. 1,387,120; Aug. 9; v. 289; p. 302.  
 Fastener, Separable. F. S. Carr. No. 1,387,121; Aug. 9; v. 289; p. 302.  
 Fastener, Separable. F. S. Carr. No. 1,387,123; Aug. 9; v. 289; p. 302.  
 Fastener, Separable. M. F. Carr. No. 1,387,126; Aug. 9; v. 289; p. 303.  
 Fastener, Separable. L. A. Larssen. No. 1,387,105; Aug. 9; v. 89; p. 299.  
 Fastener, Separable. L. A. Larssen. No. 1,387,106; Aug. 9; v. 289; p. 300.  
 Fastener, Separable. A. H. Tramer. No. 1,381,257; June 14; v. 287; p. 230.  
 Fastener-setting machine. P. R. Glass. No. 1,369,021; Feb. 22; v. 283; p. 562.  
 Fastener-setting machine. S. L. Gookin. No. 1,371,364; Mar. 15; v. 284; p. 415.  
 Fastener-setting machine. J. Gouldbourn. No. 1,401,251; Dec. 27.  
 Fastener-setting machine. P. J. Horgan. No. 1,388,862; Aug. 30; v. 289; p. 809.  
 Fastener-setting machine, Duplex. P. R. Glass. No. 1,381,180; June 14; v. 287; p. 216.  
 Fastener, Shoe-. J. R. Smith. No. 1,371,941; Mar. 15; v. 284; p. 526.  
 Fastener, support, and the like. G. C. Dupont. No. 1,385,311; July 19; v. 288; p. 554.  
 Fasteners, Machine for inserting. J. F. Davey. No. 1,373,490; Apr. 5; v. 285; p. 22.  
 Fasteners, Machine for producing spring dress-. K. G. Blomberg and B. A. Pettersson. No. 1,382,463; June 21; v. 287; p. 517.  
 Fasteners, Machine for setting. R. B. Smith. No. 1,371,329; Mar. 15; v. 284; p. 408.  
 Fasteners, Making corrugated. S. C. Cary. No. 1,372,601; Mar. 22; v. 284; p. 710.  
 Fasteners or buttons, Stud for spring-pressure. V. Marendowski. No. 1,380,000; May 31; v. 286; p. 945.  
 Fasteners, Safety device for. M. Keeton. No. 1,384,526; July 12; v. 288; p. 312.  
 Fastening. R. C. Newhouse. No. 1,389,154; Aug. 30; v. 289; p. 863.  
 Fastening and binding device. J. Soss. No. 1,364,461; Jan. 4; v. 282; p. 81.  
 Fastening and holding device. R. F. and M. Workman. No. 1,369,513; Feb. 22; v. 283; p. 657.  
 Fastening device. R. C. Barton. No. 1,370,680; Mar. 8; v. 284; p. 221.  
 Fastening device. J. T. Binkley. No. 1,395,627; Nov. 1.  
 Fastening device. L. B. Craig. No. 1,400,662; Dec. 20.  
 Fastening device. A. F. F. Gilson. No. 1,378,946; May 24; v. 286; p. 672.  
 Fastening device. F. Hyde. No. 1,373,507; Apr. 5; v. 285; p. 25.  
 Fastening device. M. J. Keevers. No. 1,377,253; May 10; v. 286; p. 223.  
 Fastening device. F. E. Markert. No. 1,395,443; Nov. 1.  
 Fastening device. F. C. McDonald. (Reissue.) No. 15,042; Feb. 15; v. 283; p. 517.  
 Fastening device. G. I. Mitchell. No. 1,382,112; June 21; v. 287; p. 450.  
 Fastening device. R. S. Peirce. No. 1,395,453; Nov. 1.  
 Fastening device. A. H. F. Perl. No. 1,382,849; June 28; v. 287; p. 644.  
 Fastening device. J. H. Pollard. No. 1,366,212; Jan. 18; v. 282; p. 503.  
 Fastening device. G. D. Preston. No. 1,374,680; Apr. 12; v. 285; p. 293.  
 Fastening device. H. R. Siegler. No. 1,368,460; Feb. 15; v. 283; p. 414.  
 Fastening device. S. G. Watt. No. 1,396,238; Nov. 8.  
 Fastening device. C. West. No. 1,373,782; Apr. 5; v. 285; p. 77.  
 Fastening for ends of laces, Special. R. A. Bibard. No. 1,397,918; Nov. 22.  
 Fastening-inserting machine. G. Goddu. No. 1,368,333; Feb. 15; v. 283; p. 388.  
 Fastening mechanism. J. S. Wentworth. No. 1,377,295; May 10; v. 286; p. 231.  
 Fastenings, Machine for forming. L. A. Casgrain. No. 1,382,760; June 28; v. 287; p. 628.  
 Fastenings, Machine for inserting. A. Bates. No. 1,398,293; Nov. 29.  
 Fastenings, Machine for inserting. C. C. Blake. No. 1,394,806; Oct. 25.  
 Fastenings, Machine for inserting. G. Goddu and F. L. Mackenzie. No. 1,372,685; Mar. 29; v. 284; p. 767.  
 Fastenings, Machine for inserting. G. Goddu and F. L. Mackenzie. No. 1,399,765; Dec. 13.  
 Fastenings, Machine for inserting. G. Goddu and F. L. Mackenzie. No. 1,401,249; Dec. 27.  
 Fat and finishing same, Food. J. T. Cox. No. 1,380,777; June 7; v. 287; p. 86.  
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 Fat, Manufacture of milk-. A. F. Stevenson. No. 1,397,663; Nov. 22.  
 Fats and oils, Compounding. V. Hechler. No. 1,389,947; Sept. 6; v. 290; p. 79.  
 Fats and oils, Removal of fatty acids, resins, bitter and mucilaginous substances from. H. Bollmann. No. 1,371,342; Mar. 15; v. 284; p. 410.  
 Fats and oils, Rendering. C. F. Kamrath. No. 1,394,736; Oct. 25.  
 Fats, Composition of edible. J. H. Jones. No. 1,381,468; June 14; v. 287; p. 269.  
 Fats, Separating fatty acids from vegetable and animal. L. Schmidt. No. 1,395,998; Nov. 1.  
 Fats, Separation of oleo and stearin from. C. H. Hapgood. No. 1,381,705; June 14; v. 287; p. 314.  
 Fats, Treatment of butter-. A. F. Stevenson. No. 1,397,664; Nov. 22.  
 Fatty matter from garbage and other fat-containing materials, Extraction of. V. Bredlik and L. C. Whiton, Jr. No. 1,372,479; Mar. 22; v. 284; p. 686.  
 Fatty substances, Recovering. J. Bannon and F. W. Thorold. No. 1,367,652; Feb. 8; v. 283; p. 210.  
 Fatty tissue, Process of and material for reducing. M. M. Wilson. No. 1,369,997; Mar. 1; v. 283; p. 46.  
 Faucet. L. B. Boyce. No. 1,365,369; Jan. 11; v. 282; p. 299.  
 Faucet. G. W. Cooke. No. 1,378,218; May 17; v. 286; p. 460.  
 Faucet. R. E. Haines. No. 1,378,339; May 17; v. 286; p. 522.  
 Faucet. G. A. Kiley. No. 1,372,957; Mar. 29; v. 284; p. 822.  
 Faucet. G. C. Klein. No. 1,401,412; Dec. 27.  
 Faucet. H. A. Linet. No. 1,368,171; Feb. 8; v. 283; p. 309.  
 Faucet. R. H. Lockyer. No. 1,393,555; Oct. 11.  
 Faucet. L. S. Lord. No. 1,397,220; Nov. 15.  
 Faucet. W. Morlok. No. 1,386,646; Aug. 9; v. 289; p. 206.  
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 Faucet. C. A. Nelson. No. 1,383,231; June 28; v. 287; p. 717.  
 Faucet. F. R. Oliver. No. 1,370,759; Mar. 8; v. 284; p. 236.  
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- Faucet and drinking fountain, Combination. L. H. Grokosky. No. 1,367,696; Feb. 8; v. 283; p. 218.
- Faucet and switch, Combined. W. G. Lindemann. No. 1,375,099; Apr. 19; v. 285; p. 436.
- Faucet attachment. R. H. Comstock. No. 1,369,621; Feb. 22; v. 283; p. 679.
- Faucet attachment. R. P. Williams. Nos. 1,395,321-2; Nov. 1.
- Faucet attachment, Water-. A. Hajian. No. 1,366,795; Jan. 25; v. 282; p. 662.
- Faucet-clamp. A. Papini. No. 1,380,923; June 7; v. 287; p. 160.
- Faucet, Combination-. T. Budzinsky. No. 1,375,205; Apr. 19; v. 285; p. 456.
- Faucet, Combination-. W. Meier. No. 1,371,922; Mar. 15; v. 284; p. 523.
- Faucet, Dispensing-. A. B. Green. No. 1,383,100; June 28; v. 287; p. 692.
- Faucet, Dispensing-. L. E. McNutt. No. 1,393,300; Oct. 11.
- Faucet, Dripless. S. A. Haines. No. 1,397,251; Nov. 15.
- Faucet, Duplex. J. T. Johnson. No. 1,392,167; Sept. 27; v. 290; p. 753.
- Faucet-holder attachment. H. G. Whitmore. No. 1,394,383; Oct. 18.
- Faucet, Laundry-tub. E. G. Evensta and H. J. Anderson. No. 1,393,103; Oct. 11.
- Faucet-lock. T. G. Strater. No. 1,388,532; Aug. 23; v. 289; p. 690.
- Faucet, Measuring-. S. H. Knight. No. 1,374,665; Apr. 12; v. 285; p. 290.
- Faucet, Slow-closing mixing. E. L. Kellan. No. 1,366,081; Jan. 18; v. 282; p. 477.
- Faucet washer, Water-. S. Hofmann. No. 1,366,803; Jan. 25; v. 282; p. 664.
- Faucet with drinking attachment. N. Spatter and A. Wellkoff. No. 1,392,456; Oct. 4.
- Faucets, Automatic tally for dispensing-. W. H. Shindoll. No. 1,396,536; Nov. 8.
- Faucets, Controlling means for spring-operated. G. A. Hickman. No. 1,387,715; Aug. 16; v. 289; p. 472.
- Faucets, Drinking attachment for. W. S. Hollaender. No. 1,387,718; Aug. 16; v. 289; p. 472.
- Faucets, Thermometer attachment for. A. S. Campbell. No. 1,397,720; Nov. 22.
- Favor. J. H. Woolhiser. No. 1,377,741; May 10; v. 286; p. 316.
- Feathers, Machine for drying. J. Blasotti. No. 1,374,809; Apr. 12; v. 285; p. 317.
- Feed and delivery plates and article-track, Adjustable. W. H. Bowes. No. 1,367,794; Feb. 8; v. 283; p. 237.
- Feed and stop mechanism, Carriage. J. H. Mansfield. No. 1,376,714; May 3; v. 286; p. 63.
- Feed, Apparatus for preparing and discharging. F. C. Scheve. No. 1,383,489; July 5; v. 288; p. 48.
- Feed, Automatic stack-. J. Murray. No. 1,395,862; Nov. 1.
- Feed-bag. G. Engler. No. 1,368,911; Feb. 15; v. 283; p. 501.
- Feed-bag for horses. L. N. Sprinkle and M. Greenman. No. 1,391,021; Sept. 20; v. 290; p. 448.
- Feed-cutter. J. H. Brunner. No. 1,384,425; July 12; v. 288; p. 291.
- Feed-cutter. E. O. Williams. No. 1,395,622; Nov. 1.
- Feed-cutters, Communiting attachment for. O. C. Frick. No. 1,394,725; Oct. 25.
- Feed device, Sight-. O. C. Norton. No. 1,392,205; Sept. 27; v. 290; p. 761.
- Feed device, Vacuum-operated liquid-. J. C. Coulombe. No. 1,366,061; Jan. 18; v. 282; p. 473.
- Feed-grinding machine. J. H. Williams. No. 1,374,699; Apr. 12; v. 285; p. 297.
- Feed holder and trough. E. H. Mittman. No. 1,400,307; Dec. 13.
- Feed lubricating systems, Terminal check-valve for force-. W. J. Schlacks. No. 1,376,833; May 3; v. 286; p. 86.
- Feed mechanism. J. C. Haldeman. No. 1,375,694; Apr. 26; v. 285; p. 582.
- Feed mechanism. F. E. Kling. No. 1,370,593; Mar. 8; v. 284; p. 204.
- Feed mechanism. E. E. Winkley. No. 1,368,312; Feb. 15; v. 283; p. 384.
- Feed mechanism therefor, Cinematograph apparatus and intermittent. H. Workman and S. J. Cox. No. 1,372,733; Mar. 29; v. 284; p. 776.
- Feed memorandum device, Automatic-. E. F. Creevy. No. 1,400,029; Dec. 13.
- Feed-mill. W. L. Beall. No. 1,394,803; Oct. 25.
- Feed-rack. M. V. Widhelm. No. 1,390,412; Sept. 13; v. 290; p. 216.
- Feed-regulator. E. R. Draver. No. 1,369,968; Mar. 1; v. 284; p. 41.
- Feed-regulator. E. R. Draver. No. 1,372,869; Mar. 29; v. 284; p. 804.
- Feed regulator, Liquid-. E. R. Draver. No. 1,364,869; Jan. 11; v. 282; p. 203.
- Feed regulator, Pulp-. H. A. Fensky. No. 1,397,415; Nov. 15.
- Feed-spacer. C. Byrne. No. 1,382,623; June 28; v. 287; p. 601.
- Feed-spout barrier. C. Allen. No. 1,374,625; Apr. 12; v. 285; p. 282.
- Feed system, Liquid-. M. A. Fesler. No. 1,365,164; Jan. 11; v. 282; p. 259.
- Feed-trough. I. Davis. No. 1,367,524; Feb. 1; v. 283; p. 128.
- Feed-trough. D. R. Stuart. No. 1,395,307; Nov. 1.
- Feed-trough. J. W. Ward. No. 1,385,510; July 26; v. 288; p. 672.
- Feed-trough, Metal. N. A. Gibbons. No. 1,365,479; Jan. 11; v. 282; p. 320.
- Feed-trough structure. P. Barland. No. 1,386,225; Aug. 2; v. 289; p. 53.
- Feed-water, Apparatus for condensing steam and heating. F. Samuelson. No. 1,375,977; Apr. 26; v. 285; p. 635.
- Feed-water heater and aspirator, Combined. E. F. McCarthy. No. 1,382,104; June 21; v. 287; p. 448.
- Feed-water heater, evaporator, and the like. H. C. Davis. No. 1,372,010; Mar. 22; v. 284; p. 597.
- Feed-water-heater systems, Fluid-pressure-delivery mechanism for locomotive-. E. A. Averill. No. 1,376,064; Apr. 26; v. 285; p. 653.
- Feed-water-heating system. J. S. Hill. No. 1,369,759; Feb. 22; v. 283; p. 706.
- Feed-water regulator. A. Scholz. No. 1,372,199; Mar. 22; v. 284; p. 632.
- Feed-water regulator. V. V. Veenschoten. No. 1,399,281; Dec. 6.
- Feed-water heater, condenser, &c. H. C. Davis. No. 1,400,347; Dec. 13.
- Feed-water purifier, Boiler-. C. E. Sargent. No. 1,400,993; Dec. 20.
- Feeder. W. F. Easter. No. 1,368,708; Feb. 15; v. 283; p. 462.
- Feeder. O. H. Johnson and H. F. Webb. No. 1,399,124; Dec. 6.
- Feeder and fountain, Sanitary. T. Ross. No. 1,372,371; Mar. 22; v. 284; p. 665.
- Feeder and magnetic separator, Combined. H. Converse. No. 1,371,301; Mar. 15; v. 284; p. 402.
- Feeder and mixer, Baker's proportionate flour. E. Gase. No. 1,383,798; July 5; v. 288; p. 112.
- Feeder, Animal-controlled. W. H. Abts. No. 1,375,622; Apr. 19; v. 285; p. 536.
- Feeder, Blank-. L. E. La Bombard. No. 1,380,483; June 7; v. 287; p. 30.
- Feeder, Bag-stock. J. S. Jacobs. No. 1,381,878; June 14; v. 287; p. 347.
- Feeder for powdered fuel. J. U. McDonald. No. 1,386,009; Aug. 2; v. 289; p. 9.
- Feeder, Hog-. F. Fouts. No. 1,392,004; Sept. 27; v. 290; p. 722.
- Feeder, Hog-. A. Morrison. No. 1,383,655; July 5; v. 288; p. 82.
- Feeder, Hog-. F. H. Page. No. 1,387,997; Aug. 16; v. 289; p. 527.
- Feeder, Mechanical stock-. W. R. Lukens and C. F. Gallagher. No. 1,383,222; June 28; v. 287; p. 715.
- Feeder, Percentage-. J. L. Willford. No. 1,364,168; Jan. 4; v. 282; p. 24.
- Feeder, Poultry-. W. F. Easter. No. 1,376,685; May 3; v. 286; p. 57.
- Feeder, Poultry-. D. McCoard. No. 1,370,466; Mar. 1; v. 284; p. 135.
- Feeder, Reloading. J. R. Blaine. No. 1,388,161; Aug. 23; v. 289; p. 616.
- Feeder, Sack-. W. Scott. No. 1,385,930; July 26; v. 288; p. 756.
- Feeder, Sectional hog-. L. L. Riner. No. 1,399,716; Dec. 6.
- Feeder, Stock-. J. Dierks. No. 1,365,385; Jan. 11; v. 282; p. 302.
- Feeding and cutting device, Insert. H. A. W. Wood. No. 1,392,470; Oct. 4.
- Feeding apparatus. L. B. Skinner. No. 1,375,643; Apr. 19; v. 285; p. 540.
- Feeding can ends, Rectangular-can-end-feed device. A. De Feo. No. 1,365,819; Jan. 18; v. 282; p. 426.
- Feeding device. E. R. Draver. No. 1,400,668; Dec. 20.
- Feeding device. M. B. Gathman. No. 1,390,777; Sept. 13; v. 290; p. 336.
- Feeding device. G. C. Kennedy. No. 1,380,564; June 7; v. 287; p. 45.
- Feeding device, Animal-. C. P. Bettenga. No. 1,365,367; Jan. 11; v. 282; p. 299.
- Feeding device, Animal-. C. P. Bettenga. No. 1,366,052; Jan. 18; v. 282; p. 472.
- Feeding device, Animal-operated. F. McArthur. No. 1,390,209; Sept. 6; v. 290; p. 130.
- Feeding device, Apple-. C. A. Biggs. No. 1,388,916; Aug. 30; v. 289; p. 820.
- Feeding device, Artificial-. A. Traynor. No. 1,399,828; Dec. 13.
- Feeding device, Liquid-. C. B. Des Jardins. No. 1,364,486; Jan. 4; v. 282; p. 86.
- Feeding device, Sheep-. J. E. Woodbury. No. 1,374,130; Apr. 5; v. 285; p. 145.
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- Feeding device, Time-controlled. O. Egeland. No. 1,392,311; Oct. 4.



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Fence, Plant-protector, and insect-destroyer, Combined. J. Nelson and R. Watson. No. 1,373,827; Apr. 5; v. 285; p. 87.  
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Fencing-grip. B. W. Storey. No. 1,399,821; Dec. 13.  
Fencepost. G. V. Harding. No. 1,399,426; Dec. 6.  
Fencepost. W. A. Holland. No. 1,373,560; Apr. 5; v. 285; p. 35.  
Fencepost. E. T. Peterson. No. 1,400,455; Dec. 13.  
Fencepost attachment. P. T. Bailey. No. 1,401,509; Dec. 27.  
Fencepost-mold. D. Roberts. No. 1,388,763; Aug. 23; v. 289; p. 735.  
Fencepost, Removable. R. R. Hage. No. 1,378,948; May 24; v. 286; p. 673.  
Fender. *See*—  
Automobile-fender. Tractor-fender.  
Car-fender. Vehicle-fender.  
Roller-fender. Wheel-fender.  
Rolling-fender.  
Fender. P. J. La Fleur. No. 1,372,520; Mar. 22; v. 284; p. 694.  
Fender. F. R. McCallin. No. 1,382,302; June 21; v. 287; p. 487.  
Fender. C. T. Myers. No. 1,372,081; Mar. 22; v. 284; p. 610.  
Fender. J. A. Ringle. No. 1,392,223; Sept. 27; v. 290; p. 765.  
Fender and dyke, Drift-. N. G. Scott. No. 1,371,119; Mar. 8; v. 284; p. 304.  
Fender, brace and bumper, Combination. W. H. Thomas. No. 1,379,946; May 31; v. 286; p. 935.  
Fender device. M. D. Rathbun. No. 1,397,451; Nov. 15.  
Fender, Safety-. G. Halliday. No. 1,368,142; Feb. 8; v. 283; p. 304.  
Ferro-cyanids, Producing. F. S. Washburn. No. 1,398,453; Nov. 29.  
Ferroleather, Producing. W. Mensing. No. 1,371,803; Mar. 15; v. 284; p. 501.  
Ferrosilicon, Producing. J. T. Jones. No. 1,379,022; May 24; v. 286; p. 687.  
Ferrotitanium, Producing low-carbon. H. C. Sicard. No. 1,374,035; Apr. 5; v. 285; p. 127.  
Ferrotitanium, Producing low-carbon. H. C. Sicard. No. 1,374,036; Apr. 5; v. 285; p. 128.  
Ferrous-metal articles, Treating. F. L. Sorensen. No. 1,380,847; June 7; v. 287; p. 100.  
Ferrous surfaces, Oxidation and coloration of. T. Rondelli and Q. Sestini. No. 1,386,076; Aug. 2; v. 289; p. 23.  
Ferrozirconium, Making. R. H. McKee. No. 1,401,265; Dec. 27.  
Ferrozirconium, Production of low-carbon. H. C. Sicard. No. 1,374,037; Apr. 5; v. 285; p. 128.  
Ferruginous preparations, Manufacturing. F. Stohr. No. 1,393,049; Oct. 11.  
Fertilizer. J. C. Heckman. No. 1,386,331; Aug. 2; v. 289; p. 74.  
Fertilizer and producing the same. C. L. Poynor. No. 1,398,113; Nov. 22.  
Fertilizer and producing the same. F. S. Washburn. No. 1,367,846; Feb. 8; v. 283; p. 248.  
Fertilizer composition. P. U. Ducommun. No. 1,368,249; Feb. 15; v. 283; p. 372.  
Fertilizer containing potassium, Production of phosphate. A. L. Kreiss. No. 1,366,569; Jan. 25; v. 282; p. 618.  
Fertilizer-depositor. J. P. Copeland. No. 1,374,881; Apr. 12; v. 285; p. 332.  
Fertilizer-distributor. C. Bevil. No. 1,381,392; June 14; v. 287; p. 255.  
Fertilizer-distributor. S. P. Taylor. No. 1,368,303; Feb. 15; v. 283; p. 383.  
Fertilizer-distributor. F. D. Vanderbilt. No. 1,366,709; Jan. 25; v. 282; p. 645.  
Fertilizer, Manufacturing of phosphatic. F. J. Tromp. No. 1,372,051; Mar. 22; v. 284; p. 604.  
Fertilizer or manure distributor. L. A. Button. No. 1,377,664; May 10; v. 286; p. 302.  
Fertilizer, Preparing a. P. Schmidt. No. 1,378,284; May 17; v. 286; p. 473.  
Fertilizer, Process and apparatus for the utilization of stable products for making. A. C. Zirwas and D. Donovan. No. 1,369,871; Mar. 1; v. 284; p. 23.  
Fertilizer, Producing. M. Shoeld. No. 1,375,115; Apr. 19; v. 285; p. 439.  
Fertilizer-spreader. F. Raisbeck. No. 1,368,053; Feb. 8; v. 283; p. 286.  
Fertilizers, insecticides, and fungicides, Apparatus for distributing. L. F. Whitney. No. 1,388,136; Aug. 16; v. 289; p. 554.  
Fertilizers, &c., Mixing and screening device for. A. M. Marshall. No. 1,392,589; Oct. 4.  
Fertilizers, Producing potash containing. C. Rossi. Nos. 1,401,648-9; Dec. 27.  
Fiber composition and making same, Vegetable-. G. A. Henderson. No. 1,370,647; Mar. 8; v. 284; p. 215.  
Fiber, Composition for dyeing animal. J. H. Fiebigler. No. 1,383,092; June 28; v. 287; p. 691.  
Fiber-conditioning process and apparatus. A. W. Thompson. No. 1,401,376; Dec. 27.  
Fiber-container machine, Automatic. W. H. Ray and P. B. Pierce. No. 1,388,202; Aug. 23; v. 289; p. 624.  
Fiber-extracting machine. W. O. Lambert and G. H. Pound. No. 1,389,883; Sept. 6; v. 290; p. 65.  
Fiber, Forming articles of impregnated. D. C. Collier. No. 1,372,118; Mar. 22; v. 284; p. 617.  
Fiber, Preparing graphitized vulcanized. E. G. Acheson, Jr. No. 1,379,155; May 24; v. 286; p. 712.  
Fiber, Preparing graphitized vulcanized. E. G. Acheson, Jr. No. 1,379,156; May 24; v. 286; p. 712.  
Fiber products, Manufacturing. G. J. Manson. No. 1,399,976; Dec. 13.  
Fibers and dyestuffs therefor, Production of fast shades on vegetable. H. Levinstein and J. Baddley. No. 1,365,706; Jan. 18; v. 282; p. 404.  
Fibers, Combing-machine of the Nasmith type for combing cotton or other textile. J. Turner. No. 1,379,789; May 31; v. 286; p. 905.  
Fibers, Machine for pulping plants containing textile. A. Hauser. No. 1,381,830; June 14; v. 287; p. 338.  
Fibers, Making. R. Kron. No. 1,376,285; Apr. 26; v. 285; p. 695.  
Fibers, Treatment of vegetable. C. Schwartz. No. 1,384,677; July 12; v. 288; p. 845.  
Fibers, Treatment of vegetable. C. Schwartz. No. 1,398,804; Nov. 29.  
Fibers, Treatment of vegetable. C. Schwartz. Nos. 1,400,380-81; Dec. 13.  
Fibers, &c., Scouring vegetables. E. T. J. Watremez. No. 1,370,076; Mar. 1; v. 284; p. 61.  
Fibrous material from wood, Manufacturing of. F. K. L. Schouten. No. 1,367,895; Feb. 8; v. 283; p. 257.  
Fibrous material, Machine for producing small strips of. G. Türk. No. 1,395,751; Nov. 1.  
Fibrous material, Process and apparatus for digesting. H. Gevers. No. 1,385,744; July 26; v. 288; p. 720.  
Fibrous material, Treating. W. Weimar. No. 1,375,125; Apr. 19; v. 285; p. 441.  
Fibrous materials, Machine for producing rovings from. G. Türk. No. 1,371,582; Mar. 15; v. 284; p. 459.



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- Fibrous plant-decorating machine. F. O'Neill, Jr. No. 1,390,922; Sept. 13; v. 290; p. 366.
- Fibrous product, Composite. H. F. Weiss. No. 1,387,219; Aug. 9; v. 289; p. 320.
- Fibrous shapes Making extruded. H. C. Egerton. No. 1,370,800; Mar. 8; v. 284; p. 244.
- Fibrous straw, Method of and bath for retting. J. M. Masson. No. 1,374,941; Apr. 19; v. 285; p. 405.
- Fibrous webs for electric insulation purposes, Manufacture of insulating. W. Meyer. No. 1,383,740; July 5; v. 288; p. 100.
- Fifes, Musical tablature for. N. L. Simpson. No. 1,390,933; Sept. 13; v. 290; p. 368.
- Fifth-wheel. M. A. Morse, Jr. No. 1,377,020; May 3; v. 286; p. 122.
- Figs, Device for splitting. E. E. Geese. No. 1,377,828; May 10; v. 286; p. 334.
- File. J. W. McCann. No. 1,395,197; Oct. 25.
- File. E. M. Pritz. No. 1,379,797; May 31; v. 286; p. 903.
- File, Account-. W. Barr. No. 1,395,892; Nov. 1.
- File-basket. J. P. Hall. No. 1,384,755; July 19; v. 288; p. 441.
- File, Bill-. F. S. Grizzel. No. 1,379,299; May 24; v. 286; p. 739.
- File, Expandable ledger-. B. E. McSheehy. No. 1,357,794; Apr. 26; v. 285; p. 600.
- File, Extension-. A. E. Wickstrom. No. 1,376,494; May 3; v. 286; p. 22.
- File-handle. H. Bernay. No. 1,374,715; Apr. 12; v. 285; p. 299.
- File-handle. A. Kaplan and J. Seredink. No. 1,372,029; Mar. 22; v. 285; p. 600.
- File-holder. C. Kausen. No. 1,386,341; Aug. 2; v. 289; p. 75.
- File, Loose-leaf. C. F. McBee. No. 1,375,523; Apr. 19; v. 285; p. 517.
- File, Memorandum-. G. H. Hohnsbeen. Nos. 1,398,591-2; Nov. 29.
- File or binder, Loose-leaf. W. D. Shoemaker. No. 1,385,590; July 26; v. 288; p. 688.
- File protector and sheath. A. T. Butler. No. 1,391,458; Sept. 20; v. 290; p. 537.
- File, Record-. T. McDougall and S. Russo. No. 1,379,030; May 24; v. 286; p. 688.
- File, Spindle-. A. Urban. No. 1,381,035; June 7; v. 287; p. 137.
- File, Transfer-. C. B. Ulrich. No. 1,386,143; Aug. 2; v. 289; p. 36.
- File, Vertical. C. F. Dieckmann. No. 1,385,524; July 20; v. 288; p. 675.
- File-wrapper. A. C. Gurske. No. 1,382,780; June 28; v. 287; p. 632.
- Files for cards, &c., Manufacture of book-. A. Gilbert. No. 1,399,550; Dec. 6.
- Files, Method and composition for reclaiming gummer and inter-. L. J. Lockett. No. 1,372,303; Mar. 22; v. 284; p. 653.
- Files, Protector and guide-sheath for nail. J. W. Ivory. No. 1,367,975; Feb. 8; v. 283; p. 271.
- Files, rasps, and the like, Resharpener. S. T. Judd. No. 1,372,170; Mar. 22; v. 284; p. 627.
- Files, rasps, &c., Chemical process for reclaiming. J. H. A. D'O. Bowman. No. 1,384,550; July 12; v. 288; p. 317.
- Files, Stop for extension-. A. E. Wickstrom. No. 1,376,493; May 3; v. 286; p. 22.
- Files, Supplemental handle for. J. O. Hanigan. No. 1,375,634; Apr. 19; v. 285; p. 538.
- Filing and indexing equipment. J. T. Quigley. No. 1,385,148; July 19; v. 288; p. 523.
- Filing and indexing equipment. J. T. Quigley. No. 1,387,010; Aug. 9; v. 289; p. 280.
- Filing and indexing equipment. J. T. Quigley. No. 1,387,310; Aug. 9; v. 289; p. 339.
- Filing appliance. H. J. Hick. No. 1,387,305; June 14; v. 287; p. 239.
- Filing-appliance case. E. B. Moseley. No. 1,393,690; Oct. 11.
- Filing-cabinet. P. F. Williams. No. 1,396,490; Nov. 8.
- Filing case or cabinet. A. Peterson. No. 1,366,931; Feb. 1; v. 283; p. 10.
- Filing-case, Sectional. E. Ohnstrand. No. 1,390,377; Sept. 13; v. 290; p. 255.
- Filing device. A. C. Barnard and W. O. Banks. No. 1,375,650; Apr. 19; v. 285; p. 541.
- Filing device. J. L. McMillan. No. 1,382,523; June 21; v. 287; p. 528.
- Filing device. P. N. Sea. No. 1,381,937; June 21; v. 287; p. 418.
- Filing device. G. M. Williams. No. 1,364,667; Jan. 4; v. 282; p. 120.
- Filing-drawer and card-holder. F. E. Kunkel. No. 1,382,429; June 21; v. 287; p. 511.
- Filing-drawers, Card-raising attachment for. W. E. Walker. No. 1,380,612; June 7; v. 287; p. 54.
- Filing machine. F. E. Biddle. No. 1,395,381; Nov. 1.
- Filing round surfaces, Adjustable hand-tool for. D. D. Roberts. No. 1,381,886; June 14; v. 287; p. 349.
- Filing system. A. S. Ede. No. 1,365,388; Jan. 11; v. 282; p. 303.
- Filing system or posting-tray, Loose-leaf. H. C. Baster. No. 1,389,116; Aug. 30; v. 289; p. 860.
- Filing-system posting-tray, Loose-leaf. H. C. Baster. No. 1,397,616; Nov. 22.
- Filled-sack-sewing machine. F. W. Ostrom and I. F. Webb. No. 1,377,624; May 10; v. 286; p. 294.
- Filling and closing machine, Combined. J. C. Tallafiero. No. 1,364,653; Jan. 4; v. 282; p. 117.
- Filling and testing device. A. J. Nuss and F. A. Parker. No. 1,399,868; Dec. 13.
- Filling-detector mechanism. J. Northrop. No. 1,372,084; Mar. 22; v. 284; p. 611.
- Filling-head. G. J. Huntley. No. 1,371,244; Mar. 15; v. 284; p. 391.
- Filling-machine. L. Cobb. No. 1,375,674; Apr. 26; v. 285; p. 579.
- Filling-machine. A. V. Fuller. No. 1,393,276; Oct. 11.
- Filling-machine. J. H. Hill. No. 1,371,370; Mar. 15; v. 284; p. 416.
- Filling-machine. G. Hunt. No. 1,364,555; Jan. 4; v. 282; p. 98.
- Filling-machine. J. Schaub. No. 1,397,184; Nov. 15.
- Filling-machine. C. E. Steere. No. 1,364,650; Jan. 4; v. 282; p. 116.
- Film arrangement, Endless. L. De Forest. No. 1,365,237; Jan. 11; v. 282; p. 273.
- Film-cleaner. A. Teitel. No. 1,401,012; Dec. 20.
- Film cleaner and rewinder. A. Teitel. No. 1,401,013; Dec. 20.
- Film-cleaning apparatus. A. Teitel. No. 1,389,082; Aug. 30; v. 289; p. 854.
- Film-cleaning apparatus. A. Teitel. No. 1,401,014; Dec. 20.
- Film-cleaning device. G. H. Bennett. No. 1,390,076; Sept. 6; v. 290; p. 105.
- Film-cleaning machine. H. A. Sührcke. No. 1,398,811; Nov. 29.
- Film-clip. G. M. Dye. No. 1,373,493; Apr. 5; v. 285; p. 23.
- Film-clip and order-tab holder. G. M. Dye. No. 1,398,423; Nov. 29.
- Film-developer. O. F. Halmer. No. 1,381,548; June 14; v. 287; p. 284.
- Film-developing device. F. E. Smith. No. 1,367,435; Feb. 1; v. 283; p. 110.
- Film-developing device, Roll-. I. R. Gruskin. No. 1,372,347; Mar. 22; v. 284; p. 661.
- Film-developing rack. N. E. Luboshez. No. 1,383,733; July 5; v. 288; p. 99.
- Film, Educational. F. A. Ayres. No. 1,385,354; July 26; v. 288; p. 639.
- Film-expanding pressure-guide. W. Wenderhold. No. 1,373,925; Apr. 5; v. 285; p. 107.
- Film-feed apparatus for projection devices. C. H. McQuillan. No. 1,387,283; Aug. 9; v. 289; p. 333.
- Film-feeding means, Disk-. F. E. Koella. No. 1,364,505; Jan. 4; v. 282; p. 89.
- Film, Fibrous filtering-. C. H. Van Nostrand and H. E. Schulse. No. 1,389,401; Aug. 30; v. 289; p. 917.
- Film-hanging device. G. E. Tornsjo. No. 1,394,697; Oct. 25.
- Film-holder. A. K. Chapman. No. 1,398,938; Nov. 29.
- Film-holding device. J. F. Grever and T. S. Fox. No. 1,398,458; Nov. 29.
- Film-mount and diagnosis-sheet, Combination dental. L. N. Halpern and L. Goldstein. No. 1,388,947; Aug. 30; v. 289; p. 826.
- Film-mounting. C. O. Simpson. No. 1,381,674; June 14; v. 287; p. 308.
- Film-pack, Autographic. C. E. Fawkes and C. M. McIntyre. No. 1,368,029; Feb. 8; v. 283; p. 281.
- Film-pack kit. R. B. Deal. No. 1,399,694; Dec. 6.
- Film-patch. R. C. Mercer. No. 1,389,523; Aug. 30; v. 289; p. 341.
- Film-rack. J. Altschuler. No. 1,369,873; Mar. 1; v. 284; p. 23.
- Film-reel. T. Ash and A. J. Frame. No. 1,393,420; Oct. 11.
- Film-reel. A. J. Connell. No. 1,391,372; Sept. 20; v. 290; p. 519.
- Film-reel. F. Spaulding. No. 1,385,191; July 19; v. 288; p. 532.
- Film-rewinding device. I. Serrurier. No. 1,369,197; Feb. 22; v. 283; p. 596.
- Film-splicing device. O. G. Stolz. No. 1,396,895; Nov. 15.
- Film-stopping device. J. Kessler. No. 1,367,268; Feb. 1; v. 283; p. 77.
- Film-tester. J. J. Rose. No. 1,364,321; Jan. 4; v. 282; p. 53.
- Film-turning device, Roll-. K. Sayo. No. 1,375,324; Apr. 19; v. 285; p. 479.
- Film-winding apparatus. E. H. Francis. No. 1,394,077; Oct. 18.
- Film-winding machine. D. Isnow. No. 1,382,288; June 21; v. 287; p. 443.
- Films, Apparatus for the developing, &c., of. R. C. Hubbard. No. 1,377,887; May 10; v. 286; p. 346.
- Films, Daylight developing and fixing apparatus for roll-. M. H. Stockwell. No. 1,395,160; Oct. 25.
- Films, Forming dielectric. R. D. Mershon. No. 1,388,874; Aug. 30; v. 289; p. 812.
- Films, Loading device for cut. W. F. Folmer. No. 1,365,975; Jan. 18; v. 282; p. 457.
- Films, Making fibrous filtering-. C. H. Van Nostrand and H. E. Schulse. No. 1,392,989; Oct. 11.



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- Films, Method and apparatus for using dissimilar. L. Gaumont. No. 1,385,912; July 26; v. 288; p. 753.
- Films or strips, Means for uncurling. G. Goudis. No. 1,385,537; July 26; v. 288; p. 677.
- Films, Process of and apparatus for the manufacture and handling of metallic-leaf. C. P. Olson. No. 1,387,063; Aug. 9; v. 289; p. 292.
- Filter. C. A. Brown. No. 1,383,384; July 5; v. 288; p. 26.
- Filter. H. L. Krumwiede. No. 1,367,783; Feb. 8; v. 283; p. 235.
- Filter. J. P. Probst. No. 1,367,324; Feb. 1; v. 283; p. 88.
- Filter. J. P. Probst. No. 1,367,325; Feb. 1; v. 283; p. 88.
- Filter. C. W. Sirch. No. 1,398,205; Nov. 22.
- Filter. E. J. Sweetland. No. 1,381,944; June 21; v. 287; p. 419.
- Filter. J. P. Winters and M. McCamon. No. 1,366,143; Jan. 18; v. 282; p. 489.
- Filter, Air-. W. F. L. Beth. No. 1,390,966; Sept. 13; v. 290; p. 375.
- Filter, Air-. V. Di Sante. No. 1,390,096; Sept. 6; v. 290; p. 109.
- Filter, Air-. F. E. and F. B. Smith. No. 1,385,502; July 26; v. 288; p. 671.
- Filter, Air or gas. W. F. L. Beth. No. 1,389,482; Aug. 30; v. 289; p. 933.
- Filter and filtering. J. H. Haerry. No. 1,384,754; July 19; v. 288; p. 440.
- Filter and water-separator, Combined. W. W. Nugent. No. 1,383,479; July 5; v. 288; p. 46.
- Filter apparatus. O. Congleton. No. 1,372,119; Mar. 22; v. 284; p. 617.
- Filter, Automatic. G. E. Morris. No. 1,401,810; Dec. 27.
- Filter-cleaning apparatus. H. A. Brooks. No. 1,393,492; Oct. 11.
- Filter for carbureters. J. A. McVickar. No. 1,387,731; Aug. 16; v. 289; p. 475.
- Filter for gases and liquids. E. W. Haslup. No. 1,366,655; Jan. 25; v. 282; p. 634.
- Filter, Gas-. W. M. Bovard. No. 1,368,540; Feb. 15; v. 283; p. 430.
- Filter, Metallurgical and chemical. H. B. Faber. No. 1,368,618; Feb. 15; v. 283; p. 444.
- Filter-press and drier, Combination. J. J. Naugle. No. 1,377,022; May 3; v. 286; p. 122.
- Filter-press equipment. N. A. Lockwood. No. 1,390,531; Sept. 13; v. 290; p. 287.
- Filter, Vapor-. W. J. Ruff. No. 1,387,870; Aug. 16; v. 289; p. 503.
- Filters, Filter-frame for use with pressure-. L. J. Martel. No. 1,370,470; Mar. 1; v. 284; p. 136.
- Filters, Flushing apparatus for use with pressure-. L. J. Martel. No. 1,370,469; Mar. 1; v. 284; p. 135.
- Filters, Shaking device for cleaning. W. F. L. Beth. No. 1,389,481; Aug. 30; v. 289; p. 933.
- Filtering. J. P. Probst. No. 1,378,274; May 17; v. 286; p. 471.
- Filtering and cleansing composition. H. R. Bloomfield. No. 1,396,244; Nov. 8.
- Filtering and decanting apparatus. B. H. Bennetts. No. 1,368,687; Feb. 15; v. 283; p. 458.
- Filtering apparatus. I. B. Tanner. No. 1,398,285; Nov. 29.
- Filtering apparatus. R. Wüster. No. 1,386,340; Aug. 2; v. 289; p. 75.
- Filtering apparatus, Shaking mechanism for. J. E. Pedersen. No. 1,388,294; Aug. 23; v. 289; p. 643.
- Filtering-mat. F. E. Kling and L. B. Weidlein. No. 1,395,833; Nov. 1.
- Filtering material. E. Müller. No. 1,375,532; Apr. 19; v. 285; p. 519.
- Filtering or de-watering press. A. Ten Bosch. No. 1,366,307; Jan. 18; v. 282; p. 521.
- Filtration. H. F. Glair. No. 1,392,758; Oct. 4.
- Filtration. D. P. Hynes. No. 1,373,887; Apr. 5; v. 285; p. 99.
- Finger fence and protector. W. H. Parry. No. 1,380,410; June 7; v. 287; p. 16.
- Finger, Guard-. F. Crawford. No. 1,396,997; Nov. 15.
- Finger-guard. L. W. George. No. 1,375,690; Apr. 26; v. 285; p. 582.
- Finger-guard. T. F. Rataiczak. No. 1,386,801; Aug. 9; v. 289; p. 238.
- Finger-nail cleaner. J. W. Ivory. No. 1,367,974; Feb. 8; v. 283; p. 271.
- Finger-print identification-card, and producing same. J. P. S. Voght. No. 1,380,506; June 7; v. 287; p. 35.
- Finger-protector. A. and G. Stein. No. 1,388,618; Aug. 23; v. 289; p. 707.
- Finger-ring. H. R. Grossman. No. 1,383,104; June 28; v. 287; p. 693.
- Finger-ring attachment. E. F. Young. No. 1,382,043; June 21; v. 287; p. 438.
- Finger-rings, Coating. B. Mestechkin. No. 1,382,438; June 21; v. 287; p. 513.
- Finishing-machine. H. W. Lowe. No. 1,393,949; Oct. 18.
- Finishing-machine for roads and the like. H. E. Hilt. No. 1,392,161; Sept. 20; v. 290; p. 752.
- Finishing-wheel. C. Paoli. No. 1,377,598; May 10; v. 286; p. 289.
- Fire-alarm. J. T. Delaney. No. 1,368,230; Feb. 8; v. 283; p. 321.
- Fire-alarm. S. Geron. No. 1,382,185; June 21; v. 287; p. 463.
- Fire-alarm apparatus. S. Nikiel. No. 1,386,649; Aug. 9; v. 289; p. 206.
- Fire-alarm, Automatic. J. Swanberg. No. 1,367,899; Feb. 8; v. 283; p. 257.
- Fire-alarm-bell actuator. W. S. Clay. No. 1,374,432; Apr. 12; v. 285; p. 245.
- Fire-alarm box and hydrant, Combined. E. E. Ferguson. No. 1,391,622; Sept. 20; v. 290; p. 570.
- Fire-alarm device, Automatic. E. C. Capper. No. 1,386,923; Aug. 9; v. 289; p. 263.
- Fire-alarm device, Automatic. E. A. Lowe. No. 1,401,914; Dec. 27.
- Fire-alarm system. M. Garl. No. 1,399,760; Dec. 13.
- Fire and water proof paint, Dry mixture for. G. Blenio. No. 1,382,617; June 28; v. 287; p. 600.
- Fire-arch. T. A. Marsh. No. 1,393,805; Oct. 18.
- Fire-boxes, Arch for. F. J. Spillane. No. 1,393,647; Oct. 11.
- Fire-brick trimming or beveling machines. F. Wierzbowski. No. 1,383,686; July 5; v. 288; p. 89.
- Fire-control apparatus, particularly for naval guns. W. Akemann. No. 1,401,028; Dec. 20.
- Fire-detector. A. Hudon and P. W. Ward. No. 1,397,004; Nov. 15.
- Fire-door. C. R. Bumbarger. No. 1,369,518; Feb. 22; v. 283; p. 658.
- Fire-door. E. J. G. Phillips. No. 1,395,766; Nov. 1.
- Fire-doors, Thermo control for. C. E. Engle. No. 1,392,002; Sept. 27; v. 290; p. 721.
- Fire-escape. H. J. Griest. No. 1,370,306; Mar. 1; v. 284; p. 104.
- Fire-escape. L. Kocjan. No. 1,397,640; Nov. 22.
- Fire-escape. S. M. Lyle. No. 1,397,643; Nov. 22.
- Fire-escape. P. Reinwald. No. 1,370,045; Mar. 1; v. 284; p. 65.
- Fire-escape. F. Sebestakowicz. No. 1,392,660; Oct. 4.
- Fire-escape device. H. Wellen. No. 1,372,853; Mar. 29; v. 284; p. 800.
- Fire-escape, Portable. F. J. Gerrard. No. 1,369,802; Mar. 1; v. 284; p. 9.
- Fire-escape, Roof-ladder. F. L. Chappell. No. 1,389,096; Aug. 30; v. 289; p. 856.
- Fire-escape, Spiral-guide. A. W. Butterfield. No. 1,382,341; June 21; v. 287; p. 493.
- Fire-extinguisher. G. Blenio. No. 1,382,619; June 28; v. 287; p. 600.
- Fire-extinguisher. H. A. Braman. No. 1,366,630; Jan. 25; v. 282; p. 629.
- Fire-extinguisher. F. J. Canova, Jr., and C. E. Egan. No. 1,379,850; May 31; v. 286; p. 917.
- Fire-extinguisher. B. B. Carter. No. 1,401,135; Dec. 27.
- Fire-extinguisher. R. C. Iddings. No. 1,390,035; Sept. 6; v. 290; p. 96.
- Fire-extinguisher. P. Jacobs. No. 1,389,049; Aug. 30; v. 289; p. 847.
- Fire-extinguisher. C. F. Jones. No. 1,368,159; Feb. 8; v. 283; p. 306.
- Fire-extinguisher. J. W. Kelly. No. 1,371,689; Mar. 15; v. 284; p. 479.
- Fire-extinguisher. M. E. Oates. No. 1,389,527; Aug. 30; v. 289; p. 942.
- Fire-extinguisher. G. T. Pearsons. No. 1,364,952; Jan. 11; v. 282; p. 219.
- Fire-extinguisher. G. T. Pearsons. No. 1,378,609; May 17; v. 286; p. 535.
- Fire-extinguisher. G. T. Pearsons. No. 1,381,657; June 14; v. 287; p. 304.
- Fire-extinguisher. G. T. Pearsons. No. 1,388,883; Aug. 30; v. 289; p. 813.
- Fire-extinguisher. G. T. Pearsons. No. 1,400,906; Dec. 20.
- Fire-extinguisher. R. Pfeil, Jr. No. 1,377,431; May 10; v. 286; p. 258.
- Fire-extinguisher. C. A. Trantham. No. 1,363,356; Jan. 11; v. 282; p. 296.
- Fire-extinguisher and making same. D. Estes. No. 1,396,362; Nov. 8.
- Fire-extinguisher composition. H. S. Mork. Nos. 1,393,236-7; Oct. 11.
- Fire extinguisher, Film-. E. Strohbach. No. 1,392,233; Sept. 27; v. 290; p. 767.
- Fire-extinguisher or flusher, Chimney. F. Barravecchia. No. 1,373,160; Mar. 29; v. 284; p. 862.
- Fire-extinguisher systems, Automatic attachment for. J. C. Meloon. No. 1,401,175; Dec. 27.
- Fire-extinguisher system, Stationary chemical-mixing. J. W. Enright. No. 1,397,411; Nov. 15.
- Fire-extinguishing apparatus. D. W. Patterson and F. A. Epp. No. 1,364,799; Jan. 4; v. 282; p. 145.
- Fire-extinguishing apparatus, Automatic. W. G. Bottom. No. 1,379,615; May 31; v. 286; p. 873.
- Fire-extinguishing apparatus, Automatic chemical. G. Wenzelmann. No. 1,390,945; Sept. 13; v. 290; p. 371.
- Fire-extinguishing apparatus, Chemical. J. R. Hamilton. No. 1,388,998; Aug. 30; v. 289; p. 837.
- Fire-extinguishing composition. P. A. Crosby, R. R. Matthews, and R. B. High. No. 1,375,779; Apr. 26; v. 285; p. 597.
- Fire-extinguishing device. R. G. Carpenter. No. 1,366,878; Jan. 25; v. 282; p. 678.
- Fire-extinguishing device. O. R. Erwin and H. V. Glos. No. 1,401,328; Dec. 27.



- Fire-extinguishing device. C. Teste, Jr. No. 1,379,139; May 24; v. 286; p. 709.
- Fire-extinguishing liquid. B. I. Corson. No. 1,401,240; Dec. 27.
- Fire-extinguishing sprinkler. A. D. Clarke. No. 1,365,967; Jan. 18; v. 282; p. 455.
- Fire-extinguishing systems, Alarm-valve for automatic. E. B. Birkland and G. O. Liljgren. No. 1,399,374; Dec. 6.
- Fire-flap. G. R. Bird. No. 1,401,306; Dec. 27.
- Fire-igniter. H. Pierce. No. 1,367,498; Feb. 1; v. 283; p. 123.
- Fire in liquid-receptacles, Apparatus for fighting. R. E. Bole. No. 1,386,232; Aug. 2; v. 289; p. 54.
- Fire-kindling device. F. Lynes. No. 1,401,803; Dec. 27.
- Fire-plug. T. H. Meushaw and C. J. Diez. No. 1,381,729; June 14; v. 287; p. 319.
- Fire-polishing apparatus. C. A. Sunder. No. 1,383,171; June 28; v. 287; p. 706.
- Fire-pot. G. W. Howes. No. 1,372,025; Mar. 22; v. 284; p. 599.
- Fire-protector. N. A. Nicholson. No. 1,396,656; Nov. 8.
- Fire-screen. C. A. Cannon and H. E. Scott. No. 1,388,095; Aug. 16; v. 289; p. 546.
- Fire-shutter, Automatic. C. H. Buell. No. 1,376,076; Apr. 26; v. 285; p. 655.
- Fire-starting element. R. Hager. No. 1,366,258; Jan. 18; v. 282; p. 512.
- Fire-tube cleaner. I. Diviriglio. No. 1,383,291; July 5; v. 288; p. 7.
- Fires in vessels, Means for extinguishing. F. H. Lang. No. 1,378,964; May 24; v. 286; p. 676.
- Firearm. B. H. Ball. No. 1,398,085; Nov. 22.
- Firearm. A. V. P. M. Berthier. No. 1,366,863; Jan. 25; v. 282; p. 676.
- Firearm. W. Bräuning. No. 1,401,579; Dec. 27.
- Firearm. J. M. Browning. No. 1,372,336; Mar. 22; v. 284; p. 659.
- Firearm. J. M. Browning. No. 1,381,448; June 14; v. 287; p. 265.
- Firearm. O. Buhl. No. 1,395,903; Nov. 1.
- Firearm. C. B. Dygert. No. 1,381,291; June 14; v. 287; p. 236.
- Firearm. J. R. Fordyce. No. 1,386,247; Aug. 2; v. 289; p. 57.
- Firearm. C. J. Jolidon. No. 1,382,197; June 21; v. 287; p. 466.
- Firearm. L. Marcq. No. 1,372,763; Mar. 29; v. 284; p. 782.
- Firearm. P. Martino. No. 1,396,969; Nov. 15.
- Firearm. J. D. Pedersen. No. 1,387,938; Aug. 16; v. 289; p. 516.
- Firearm. J. D. Pedersen. No. 1,390,380; Sept. 13; v. 290; p. 256.
- Firearm. J. D. Pedersen. No. 1,391,496; Sept. 20; v. 290; p. 544.
- Firearm. J. D. Pedersen. No. 1,391,497; Sept. 20; v. 290; p. 545.
- Firearm. J. D. Pedersen. No. 1,391,498; Sept. 20; v. 290; p. 545.
- Firearm. J. D. Pedersen. No. 1,391,499; Sept. 20; v. 290; p. 545.
- Firearm. J. D. Pedersen. Nos. 1,395,291-2; Nov. 1.
- Firearm. J. D. Pedersen. No. 1,397,109; Nov. 15.
- Firearm. J. D. Pedersen. No. 1,401,552; Dec. 27.
- Firearm. E. G. Reising. No. 1,381,016; June 7; v. 287; p. 133.
- Firearm. E. G. Reising. No. 1,395,141; Oct. 25.
- Firearm. W. E. Rosebush. No. 1,376,165; Apr. 26; v. 285; p. 672.
- Firearm. F. A. Stafford. No. 1,387,207; Aug. 9; v. 289; p. 317.
- Firearm, Accuracy attachment for. A. M. Craig. No. 1,369,085; Feb. 22; v. 283; p. 574.
- Firearm attachment. B. L. Jenks, J. L. Cameron, and L. E. Yagel. No. 1,371,899; Mar. 15; v. 284; p. 518.
- Firearm, Automatic. E. A. L. Bourdelles. No. 1,382,058; June 21; v. 287; p. 440.
- Firearm, Automatic. R. A. Moore. No. 1,376,456; May 3; v. 286; p. 15.
- Firearm, Automatic. C. C. Sheppard. No. 1,376,834; May 3; v. 286; p. 86.
- Firearm, Breech-loading. E. H. Searle. No. 1,395,455; Nov. 1.
- Firearm, Composite automatic. W. E. Rosebush. No. 1,377,629; May 10; v. 286; p. 295.
- Firearm, Gas-operated. C. A. Nelson. No. 1,388,879; Aug. 30; v. 289; p. 813.
- Firearm, One-piece-stock takedown. T. C. Johnson. No. 1,370,118; Mar. 1; v. 284; p. 68.
- Firearm-register. A. Copelli and F. Albi. No. 1,397,313; Nov. 15.
- Firearm, Repeating. C. G. Swebillus. No. 1,401,568; Dec. 27.
- Firearms. C. A. Nelson. No. 1,370,836; Mar. 8; v. 284; p. 261.
- Firearms, Apparatus for aiming. R. P. Hestehave. No. 1,381,304; June 14; v. 287; p. 238.
- Firearms, Apparatus for use in calibrating and rifling the bore of. E. Fuchs. No. 1,394,079; Oct. 18.
- Firearms, Attachment for. T. W. Post. No. 1,387,308; Aug. 9; v. 289; p. 339.
- Firearms, Bipod rest for. J. S. Butler. No. 1,382,409; June 21; v. 287; p. 507.
- Firearms, Cleaning-rod for. R. G. Hall and A. Birkholm. No. 1,386,862; Aug. 9; v. 289; p. 250.
- Firearms, Detachable stock for. J. S. Butler. No. 1,382,410; June 21; v. 287; p. 507.
- Firearms, Dustproof device for. M. E. Johnston. No. 1,365,592; Jan. 11; v. 282; p. 343.
- Firearms, Gas-delayer for. J. S. Johnston. No. 1,387,889; Aug. 16; v. 289; p. 506.
- Firearms, Gun-lock for automatic. J. Duffek. No. 1,387,369; Aug. 9; v. 289; p. 351.
- Firearms, Magazine catch and release for. G. Hammond. No. 1,368,719; Feb. 15; v. 283; p. 464.
- Firearms, Magazine for hand-. W. E. Rosebush. No. 1,375,322; Apr. 19; v. 285; p. 479.
- Firearms, Safety device for. G. H. Garrison. No. 1,389,944; Sept. 6; v. 290; p. 78.
- Firearms, Reloading mechanism for magazine-. E. H. Searle. No. 1,382,680; June 28; v. 287; p. 612.
- Firearms, Shock-diffuser for. A. M. Craig. No. 1,367,354; Feb. 1; v. 283; p. 94.
- Firearms, Sling-swivel and band for. F. F. Burton. No. 1,366,715; Jan. 25; v. 282; p. 646.
- Firebox, Smoke and gas burning. C. E. Betcher. No. 1,373,478; Apr. 5; v. 285; p. 19.
- Firebox, Smoke and gas burning. C. E. Betcher. No. 1,373,479; Apr. 5; v. 285; p. 20.
- Fireboxes, Method and apparatus for lining furnace-. F. Hardinge. No. 1,393,777; Oct. 18.
- Firing instrument for marine mines. L. J. Husted. No. 1,387,722; Aug. 16; v. 289; p. 473.
- Firing mechanism. E. H. Searle. No. 1,393,912; Oct. 18.
- Fireplace. E. L. Barton. No. 1,364,607; Jan. 4; v. 282; p. 108.
- Fireplace. R. P. Goff. No. 1,396,366; Nov. 8.
- Fireplace. J. H. Stites. No. 1,400,829; Dec. 13.
- Fireplace-heater. J. S. Nichols. No. 1,370,349; Mar. 1; v. 284; p. 112.
- Fireplaces, Appliance for. P. W. Williams. No. 1,377,108; May 3; v. 286; p. 139.
- Fireplaces, Heating device for open. J. S. Nichols. No. 1,370,348; Mar. 1; v. 284; p. 112.
- Fireplaces, Ventilated grate for. J. M. Killen. No. 1,389,516; Aug. 30; v. 289; p. 939.
- Firepot. C. R. Lambert. No. 1,374,587; Apr. 12; v. 285; p. 275.
- Firepot. C. R. Lambert. No. 1,381,924; June 21; v. 287; p. 416.
- Fireproof and insulating structures, Composition of matter for use in the formation of. E. R. Stowell. No. 1,382,329; June 21; v. 287; p. 491.
- Fireproof building construction. A. P. Ward. No. 1,391,352; Sept. 20; v. 290; p. 516.
- Fireproof door. W. H. Wheeler. No. 1,377,298; May 10; v. 286; p. 232.
- Fireproof-storing mobile fuel. L. W. Bates. No. 1,394,060; Oct. 18.
- Fireproof wall or partition construction. C. Collins. No. 1,368,699; Feb. 15; v. 283; p. 460.
- Fireproofing composition. S. Di Filippo. No. 1,396,264; Nov. 8.
- Fireproofing of textile fabrics and other porous articles. T. J. I. Craig. No. 1,397,858; Nov. 22.
- Fireproofing materials and heat and cold retaining coverings and product thereof, Making. C. S. Hathaway. No. 1,374,885; Apr. 12; v. 285; p. 332.
- Fireproofing solution. G. Blenio. No. 1,382,618; June 28; v. 287; p. 600.
- Fish-bait. J. J. Chapel. No. 1,377,309; May 10; v. 286; p. 234.
- Fish-bait, Artificial. F. Dubrow. (Reissue.) No. 15,204; Oct. 11.
- Fish-bait, Artificial. S. B. Gleason. No. 1,385,536; July 26; v. 288; p. 677.
- Fish-bait, Artificial. W. S. Warden. No. 1,380,876; June 7; v. 287; p. 106.
- Fish bait or lure. S. J. Brown. No. 1,365,813; Jan. 18; v. 282; p. 425.
- Fish-cleaner, Automatic. C. H. Carter. No. 1,394,711; Oct. 25.
- Fish-cleaning machine. A. Reynolds. No. 1,369,302; Feb. 22; v. 283; p. 615.
- Fish-curing machine. W. F. Schaller. No. 1,385,927; July 26; v. 288; p. 756.
- Fish cutting and cleaning machine. H. D. Severance. No. 1,400,186; Dec. 13.
- Fish-cutting machine. A. R. Rogers. No. 1,394,185; Oct. 18.
- Fish-dressing machine. E. H. Waugh. No. 1,365,575; Jan. 4; v. 282; p. 339.
- Fish-dressing machines, Scraper for. E. H. Waugh. No. 1,384,877; July 19; v. 288; p. 466.
- Fish-eggs, Prepared. R. Gamble and E. G. Sliter. No. 1,392,253; Sept. 27; v. 290; p. 771.
- Fish-grapple. H. L. Brady. No. 1,393,076; Oct. 11.
- Fish-lure. E. A. Moree. No. 1,390,458; Sept. 13; v. 290; p. 271.
- Fish-lure, Spinner. E. S. Knowles. No. 1,383,546; July 5; v. 288; p. 59.
- Fish-lures, Weed attachment for. S. J. Brown. No. 1,371,348; Mar. 15; v. 284; p. 412.
- Fish, Machine for positioning and cutting. C. W. Graham. No. 1,381,989; June 21; v. 287; p. 428.
- Fish, Machine for treating. M. J. Abbott. No. 1,371,658; Mar. 15; v. 284; p. 473.



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- Fish-pond. O. F. Benton. No. 1,393,339; Oct. 11.  
 Fish scaling and washing machine. N. C. Sprague. No. 1,383,162; June 28; v. 287; p. 704.  
 Fish-skins and preparing same. Material formed from. G. H. Rausch. No. 1,372,192; Mar. 22; v. 284; p. 631.  
 Fish-stringer. F. J. Mullins. No. 1,373,826; Apr. 5; v. 285; p. 87.  
 Fish-trapping net. F. Kuwik. No. 1,381,203; June 14; v. 287; p. 220.  
 Fish-trimming machine. J. E. Cox. No. 1,377,465; May 10; v. 286; p. 264.  
 Fishhook. F. Dahlgren. No. 1,390,767; Sept. 13; v. 290; p. 334.  
 Fishhook. J. M. King. No. 1,401,086; Dec. 20.  
 Fishhook. C. E. Pierson. No. 1,381,003; June 7; v. 287; p. 131.  
 Fishhook. A. F. Thorsten. No. 1,379,422; May 24; v. 286; p. 762.  
 Fishhook, Automatic. P. Peterson. No. 1,388,058; Aug. 16; v. 289; p. 539.  
 Fishhook-holder. M. G. Lawrence. No. 1,365,111; Jan. 11; v. 282; p. 249.  
 Fishhooks, Bail-holder for. S. Svenson. No. 1,388,386; Aug. 23; v. 289; p. 662.  
 Fishing apparatus. M. Skrmetti. No. 1,366,749; Jan. 25; v. 282; p. 653.  
 Fishing appliance. E. R. Gillette. No. 1,398,717; Nov. 29.  
 Fishing device. F. B. Greene. No. 1,376,934; May 3; v. 286; p. 106.  
 Fishing device, Halibut-. W. J. Larson. No. 1,380,655; June 7; v. 287; p. 63.  
 Fishing-float. R. O. Wells, Sr. No. 1,371,188; Mar. 8; v. 284; p. 317.  
 Fishing-fly and making the same. C. W. Allen. No. 1,388,156; Aug. 23; v. 289; p. 615.  
 Fishing-line. T. Bird. No. 1,371,067; Mar. 8; v. 284; p. 295.  
 Fishing-line reel. W. E. Hodges and C. F. Larzelere. No. 1,398,189; Nov. 22.  
 Fishing-machine, Fishhook. G. W. Lucas. No. 1,383,474; July 5; v. 288; p. 45.  
 Fishing-net. A. Wolf. No. 1,366,145; Jan. 18; v. 282; p. 489.  
 Fishing-reel. W. L. Adams. No. 1,399,536; Dec. 6.  
 Fishing-reel. L. Atwood. No. 1,392,735; Oct. 4.  
 Fishing-reel. E. Clickner. No. 1,369,785; Mar. 1; v. 284; p. 6.  
 Fishing-reel. R. W. Harradine. No. 1,398,429; Nov. 29.  
 Fishing-reel. G. A. Higbee. No. 1,398,721; Nov. 29.  
 Fishing-reel. H. A. Klest. No. 1,385,457; July 26; v. 288; p. 661.  
 Fishing-reel. W. R. Kopp. No. 1,372,301; Mar. 22; v. 284; p. 653.  
 Fishing-reel. R. S. Moses. No. 1,398,197; Nov. 22.  
 Fishing-reel. J. D. Robertson. No. 1,386,366; Aug. 2; v. 289; p. 79.  
 Fishing-reel clamp. M. D. Price. No. 1,382,545; June 21; v. 287; p. 533.  
 Fishing-reels, Attachment for. G. D. Jones. No. 1,395,118; Oct. 25.  
 Fishing-rod. Y. N. Park. No. 1,377,787; May 10; v. 286; p. 326.  
 Fishing-rod. M. D. Price. No. 1,371,261; Mar. 15; v. 284; p. 394.  
 Fishing-rods, Hand-grip for. W. L. Beaty. No. 1,375,668; Apr. 26; v. 285; p. 578.  
 Fishing-signal. F. Z. Morin. No. 1,391,002; Sept. 20; v. 290; p. 444.  
 Fishing-tool and support. D. L. Driscoll. No. 1,371,078; Mar. 8; v. 284; p. 207.  
 Fishing-tool for use in drilling operations. D. L. Driscoll. No. 1,394,071; Oct. 18.  
 Fishing-tool, Overshot. G. Whitmer. No. 1,381,529; June 14; v. 287; p. 280.  
 Fishing-tools, Adjustable friction-grab for. L. E. Dickson. No. 1,378,841; May 24; v. 286; p. 653.  
 Fishing-tackle. C. Fredricks. No. 1,394,616; Oct. 25.  
 Fishing-tackle. K. Goriach. No. 1,379,402; May 24; v. 286; p. 758.  
 Fishing-tackle. H. L. Johnson. No. 1,386,061; Aug. 2; v. 289; p. 20.  
 Fishing-tackle. H. H. Sturgis. No. 1,371,128; Mar. 8; v. 284; p. 306.  
 Fishing-tackle holder. F. W. Tegner. No. 1,397,790; Nov. 22.  
 Fishing-tool. F. M. Bramley. No. 1,384,988; July 19; v. 288; p. 489.  
 Fishing-tool. C. H. Brown. No. 1,399,249; Dec. 6.  
 Fishing-tool. H. Currier. No. 1,364,254; Jan. 4; v. 282; p. 40.  
 Fishing-tool. J. T. Maloney. No. 1,385,633; July 26; v. 288; p. 697.  
 Fishing-tool. J. F. McDowell. No. 1,374,510; Apr. 12; v. 285; p. 260.  
 Fishing-tool. J. F. McMillian. No. 1,392,650; Oct. 4.  
 Fishing-tool. A. F. Rose. No. 1,392,599; Oct. 4.  
 Fishing-line-leader. A. V. Lindquist. No. 1,370,696; Mar. 8; v. 284; p. 224.  
 Fishplate, Wreck-. J. Kezon. No. 1,368,506; Feb. 15; v. 283; p. 423.  
 Fitting, Insertible. R. E. Ford. No. 1,367,312; Feb. 1; v. 283; p. 86.  
 Fixture, Bathtub-. J. R. Drozeski. No. 1,364,920; Jan. 11; v. 282; p. 212.  
 Flag. G. S. Henritzy. No. 1,398,555; Nov. 29.  
 Flag. J. H. Herbener. No. 1,398,376; Nov. 29.  
 Flag and container, Trainman's. H. H. Olsen. No. 1,394,933; Oct. 25.  
 Flag and flag-support. J. Mader. No. 1,401,626; Dec. 27.  
 Flag and producing same. J. H. Herbener. No. 1,372,508; Mar. 22; v. 284; p. 692.  
 Flag, Mechanically-waved. J. D. Houston. No. 1,374,921; Apr. 19; v. 285; p. 401.  
 Flag raising and lowering device, Automatic. F. Zipoy. No. 1,373,376; Mar. 29; v. 284; p. 904.  
 Flagman's outfit. C. C. Shepard. No. 1,396,787; Nov. 15.  
 Flagpole. E. H. Raguse. No. 1,383,234; June 28; v. 287; p. 717.  
 Flagstaff-holder, Adjustable. A. E. Elphinstone. No. 1,373,414; Apr. 5; v. 285; p. 6.  
 Flame-maintaining device. O. Kraus. No. 1,392,948; Oct. 11.  
 Flange-curling machine. P. W. Fleischer. No. 1,389,639; Sept. 6; v. 290; p. 16.  
 Flange-forming machine, Lined-pipe-. P. A. Foley. No. 1,396,179; Nov. 8.  
 Flange-way guard. J. W. Orrock. No. 1,384,333; July 12; v. 288; p. 272.  
 Flanged wheel. J. J. Rowe. No. 1,369,839; Mar. 1; v. 284; p. 16.  
 Flanging-machine. H. McCabe. No. 1,387,603; Aug. 16; v. 289; p. 449.  
 Flash-igniter. A. O. Rutz. No. 1,376,646; May 3; v. 286; p. 50.  
 Flash-light. G. I. Johnson. No. 1,366,461; Jan. 25; v. 282; p. 596.  
 Flashing. O. Boll. No. 1,394,403; Oct. 18.  
 Flashing. O. Boll. No. 1,394,404; Oct. 18.  
 Flashing. L. W. Cramer. No. 1,396,732; Nov. 15.  
 Flashlight. W. Bronie. No. 1,388,165; Aug. 23; v. 289; p. 617.  
 Flashlight. W. S. Doe. No. 1,393,675; Oct. 11.  
 Flashlight. R. M. Eaton. No. 1,399,545; Dec. 6.  
 Flashlight. R. L. Hunter. No. 1,392,165; Sept. 27; v. 290; p. 753.  
 Flashlight. A. C. Recker. No. 1,398,799; Nov. 29.  
 Flashlight. A. C. Sachse. No. 1,384,636; July 12; v. 288; p. 336.  
 Flashlight. F. W. Slady. No. 1,369,564; Feb. 22; v. 283; p. 667.  
 Flashlight. J. Vince. No. 1,386,474; Aug. 2; v. 289; p. 99.  
 Flashlight. G. V. C. Vreeland. No. 1,372,851; Mar. 29; v. 284; p. 800.  
 Flashlight. G. V. C. Vreeland. No. 1,374,411; Apr. 12; v. 285; p. 241.  
 Flashlight-battery. H. H. Hipwell. No. 1,398,518; Nov. 29.  
 Flashlight device. P. C. Smalley. No. 1,376,976; May 3; v. 286; p. 114.  
 Flashlight-generator. W. W. Anderson. No. 1,399,598; Dec. 6.  
 Flashlight or battery hand-lamp. A. W. Wellington. No. 1,377,646; May 10; v. 286; p. 298.  
 Flashlight signal apparatus. G. K. V. Johansson. No. 1,382,784; June 28; v. 287; p. 633.  
 Flashlight-support. R. N. Friend. No. 1,367,369; Feb. 1; v. 283; p. 97.  
 Flashlight-switch. H. M. Koretzky. No. 1,368,810; Feb. 15; v. 283; p. 482.  
 Flask: See—  
     Molding-flask.  
 Flask. C. N. Coryell. Nos. 1,398,087-8; Nov. 22.  
 Flask-clamp. S. H. Wilson. No. 1,381,854; June 14; v. 287; p. 342.  
 Flask, Molding-. F. M. Bigelow. No. 1,390,754; Sept. 13; v. 290; p. 332.  
 Flat die, Adjustable. J. G. Wright. No. 1,377,954; May 10; v. 286; p. 359.  
 Flatiron. E. L. Ast. No. 1,376,242; Apr. 26; v. 285; p. 686.  
 Flatiron. O. H. Desmarais. No. 1,364,868; Jan. 11; v. 282; p. 202.  
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 Flattening-oven furnace. H. F. Clark. No. 1,378,657; May 17; v. 286; p. 545.  
 Flattening pipe. H. W. Smith. No. 1,384,103; July 12; v. 288; p. 225.  
 Flavoring and perfumery extract. G. J. Esselen, Jr. No. 1,378,099; May 17; v. 286; p. 438.  
 Flax and other fibrous plants, Machine for treating. F. O'Neill, Jr. No. 1,369,045; Feb. 22; v. 283; p. 567.  
 Flax-pulling machine. G. Michot. No. 1,393,951; Oct. 18.  
 Flething-machine. J. O. Schroeder and J. Kelling. No. 1,382,126; June 21; v. 287; p. 453.  
 Flexible coupling. I. H. Dexter. No. 1,387,532; Aug. 16; v. 289; p. 435.  
 Flexible coupling. G. M. Eaton. No. 1,390,514; Sept. 13; v. 290; p. 283.  
 Flexible coupling. W. J. Francke. No. 1,392,755; Oct. 4.  
 Flexible coupling. M. F. Murphy. No. 1,369,349; Feb. 22; v. 283; p. 625.  
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- Flexible coupling. G. J. Ziegler. No. 1,380,330; May 31; v. 286; p. 1007.
- Flexible joint. H. P. Macdonald. No. 1,376,107; Apr. 26; v. 285; p. 661.
- Flexible material. Finishing the edges of. L. J. Van Guelpen. No. 1,377,643; May 10; v. 286; p. 297.
- Flexible metal joint. H. Wilson. No. 1,374,129; Apr. 5; v. 285; p. 145.
- Flexible operating mechanism. P. L. Billingsley. No. 1,395,626; Nov. 1.
- Flexible shaft-coupling. W. H. Clifford. No. 1,386,161; Aug. 2; v. 289; p. 40.
- Flexible shaft-coupling. W. R. Fox and A. A. Riddell. No. 1,382,720; June 28; v. 287; p. 620.
- Flexible tube. L. H. Brinkman. No. 1,387,231; Aug. 9; v. 289; p. 322.
- Fliler and making same. E. B. Feaster. No. 1,393,356; Oct. 11.
- Flies and insects, Device for the killing or disabling of. A. W. Cash. No. 1,369,757; Feb. 22; v. 283; p. 705.
- Flood-operated circuit-closer. J. I. Stanfa. No. 1,391,347; Sept. 20; v. 290; p. 515.
- Flood-register. L. E. Baker. No. 1,393,069; Oct. 11.
- Floating fishtrap. I. Reimer. No. 1,393,907; Oct. 18.
- Floating-tool holder. F. W. Straehle. No. 1,369,491; Feb. 22; v. 283; p. 653.
- Flood-gate. J. Ziegler. No. 1,382,589; June 21; v. 287; p. 541.
- Flood-gate on streams. B. C. Wilburn. No. 1,387,955; Aug. 16; v. 289; p. 519.
- Flood-light. C. A. B. Halvorson. No. 1,371,761; Mar. 15; v. 284; p. 492.
- Floor and method and apparatus for laying the same. P. Galassi. No. 1,377,675; May 10; v. 286; p. 304.
- Floor-cleaning device. A. Leigh. No. 1,383,731; July 5; v. 288; p. 99.
- Floor-cleaning machine. W. A. Rowe. No. 1,369,130; Feb. 22; v. 283; p. 583.
- Floor construction. W. S. Hutchinson. No. 1,368,557; Feb. 15; v. 283; p. 433.
- Floor construction. F. M. Sawyer. No. 1,397,147; Nov. 15.
- Floor construction device, Concrete and wood. C. W. Prickett. No. 1,381,740; June 14; v. 287; p. 321.
- Floor construction, System of arch-rib. E. L. Mayberry. No. 1,391,748; Sept. 27; v. 290; p. 669.
- Floor-covering. J. J. Tomec. No. 1,378,498; May 17; v. 286; p. 514.
- Floor-covering and the like, Fabric for. T. Isozaki. No. 1,364,376; Jan. 4; v. 282; p. 63.
- Floor-finishing apparatus. A. W. Green. No. 1,401,400; Dec. 27.
- Floor-furnace. A. P. Post. No. 1,383,852; July 5; v. 288; p. 123.
- Floor-mat and making same. E. Jackson. No. 1,392,333; Oct. 4.
- Floor or ceiling plate. M. R. Koerner. No. 1,372,518; Mar. 22; v. 284; p. 693.
- Floor or like article, Non-dusting cement concrete. C. Ellis. No. 1,385,268; June 28; v. 287; p. 724.
- Flood or sluice gate, Tubular. P. Samain. No. 1,393,578; Oct. 11.
- Floor-socket. J. J. Quinn. No. 1,386,947; Aug. 9; v. 289; p. 267.
- Floor-strip holder. M. G. Finlayson. No. 1,375,043; Apr. 19; v. 285; p. 426.
- Floor system. S. B. Moore. No. 1,376,152; Apr. 26; v. 285; p. 669.
- Floor waxing and polishing device. F. H. Reid. No. 1,372,370; Mar. 22; v. 284; p. 665.
- Floor-working machine. F. Wagner. No. 1,388,983; Aug. 30; v. 289; p. 834.
- Floors, Dividers for cementitious. L. Del Turco. No. 1,401,590; Dec. 27.
- Floors, Dividing-strip for cementitious. L. Del Turco. No. 1,368,374; Feb. 15; v. 283; p. 397.
- Floors, Means for removing cotton droppings from. S. E. Phalar. No. 1,382,542; June 21; v. 287; p. 532.
- Floors, walls, windows, &c., Device for cleaning and polishing the surfaces of. W. J. Houlihan. No. 1,399,427; Dec. 6.
- Floors, woodwork, &c., Composition for filling, polishing, and finishing. F. Herrington. No. 1,401,907; Dec. 27.
- Flooring. S. Hedges. No. 1,374,082; Apr. 5; v. 285; p. 136.
- Flooring and producing same, Sheet. A. C. Biernatzki. No. 1,382,595; June 21; v. 287; p. 543.
- Flooring and the like, Fastening means for. R. M. Cunningham. No. 1,380,362; June 7; v. 287; p. 7.
- Flotation apparatus. F. E. Marcy. No. 1,383,321; July 5; v. 288; p. 13.
- Flotation apparatus. J. I. Thomas. No. 1,383,881; July 5; v. 288; p. 129.
- Flooring, Bank-vault. T. M. Brintnall. No. 1,369,960; Mar. 1; v. 284; p. 39.
- Flooring, Interlocked heavy-service block. J. D. Butler. No. 1,367,795; Feb. 8; v. 283; p. 238.
- Flooring-lumber and manufacturing same, Veneered. B. C. Rockwell. No. 1,394,120; Oct. 18.
- Flooring, Terrazzo. B. O. A. De Paoli. No. 1,397,678; Nov. 22.
- Flooring, Terrazzo. G. N. Jeppson. No. 1,371,683; Mar. 15; v. 284; p. 478.
- Flotation agent. C. L. Perkins. No. 1,394,639; Oct. 25.
- Flotation apparatus. H. H. Bonnell. No. 1,399,539; Dec. 6.
- Flotation apparatus. R. Gahl. No. 1,401,593; Dec. 27.
- Flotation apparatus. W. E. Greenawalt. No. 1,374,447; Apr. 12; v. 285; p. 248.
- Flotation apparatus. W. E. Greenawalt. No. 1,374,499; Apr. 12; v. 285; p. 258.
- Flotation apparatus and process. F. D. Gross, R. P. Akins, and J. W. Bucher. No. 1,401,535; Dec. 27.
- Flotation device. V. Guinzburg. No. 1,364,275; Jan. 4; v. 282; p. 45.
- Flotation device. V. Guinzburg. No. 1,383,624; July 5; v. 288; p. 76.
- Flotation-machine. D. P. Hynes. No. 1,394,306; Oct. 18.
- Flotation-machine. L. D. Lyons and C. F. Hoff. No. 1,389,674; Sept. 6; v. 290; p. 23.
- Flotation of minerals. R. E. Sayre. No. 1,378,562; May 17; v. 286; p. 526.
- Flotation process. C. Spearman. No. 1,377,937; May 10; v. 286; p. 355.
- Flotation separatory process and apparatus. J. M. Callow. No. 1,366,767; Jan. 25; v. 282; p. 657.
- Flour and meal, Apparatus for making. L. F. Little. No. 1,399,437; Dec. 6.
- Flour and other cereal products, Bleaching and maturing. J. C. Baker. No. 1,367,530; Feb. 8; v. 283; p. 187.
- Flour and other materials, Machine for mixing. A. A. Strauss. No. 1,394,371; Oct. 18.
- Flour-bins, Sifter for. J. H. Dean. No. 1,369,790; Mar. 1; v. 284; p. 7.
- Flour, Device for aerating and maturing. W. G. Miller. No. 1,376,110; Apr. 26; v. 285; p. 662.
- Flour-milling machinery. G. T. Smith. No. 1,377,976; May 10; v. 286; p. 362.
- Flour-milling process. C. W. Andrews. No. 1,381,266; June 14; v. 287; p. 232.
- Flour-sifter. F. Smetana. No. 1,391,145; Sept. 20; v. 290; p. 474.
- Flour-sifter. A. F. Zook. No. 1,397,478; Nov. 15.
- Flow-indicator. A. J. Brown. No. 1,385,973; July 26; v. 288; p. 765.
- Flow-indicating device. A. L. Collins. No. 1,374,359; Apr. 12; v. 285; p. 230.
- Flow-indicator. R. L. Hanau. No. 1,365,488; Jan. 11; v. 282; p. 322.
- Flow-indicator. L. D. Royer. No. 1,382,388; June 21; v. 287; p. 502.
- Flow-indicator. F. V. Sams. No. 1,385,717; July 26; v. 288; p. 714.
- Flow-meter. W. J. Crowell, Jr. No. 1,366,522; Jan. 25; v. 282; p. 608.
- Flow-meter. J. W. McNairy. No. 1,373,899; Apr. 5; v. 285; p. 101.
- Flow-meter. J. M. Spitzglass. No. 1,390,394; Sept. 13; v. 290; p. 259.
- Flow-meter. N. Tesla. No. 1,365,547; Jan. 11; v. 282; p. 333.
- Flow meter and heater apparatus, Vent for gravity. J. L. Flitts and W. F. Bilyear. No. 1,371,554; Mar. 15; v. 284; p. 45.
- Flower-box. J. Straub. No. 1,375,333; Apr. 19; v. 285; p. 481.
- Flower-holder. E. D. Hegamin. No. 1,379,340; May 24; v. 286; p. 747.
- Flower-holder. F. Kern. No. 1,372,820; Mar. 29; v. 284; p. 794.
- Flower petals, Machines for shaping artificial. A. J. Schwarzenbach. No. 1,366,747; Jan. 25; v. 282; p. 652.
- Flower petals, Producing artificial. L. Malmstrom. No. 1,400,691; Dec. 20.
- Flower-pot. F. Sandor. No. 1,376,117; Apr. 26; v. 285; p. 663.
- Flower-pot handle. R. H. Comstock. No. 1,369,965; Mar. 1; v. 284; p. 40.
- Flower-pot, Self-irrigating. A. W. Rudolph. No. 1,400,628; Dec. 20.
- Flower-press. S. T. Walkup. No. 1,378,741; May 17; v. 286; p. 561.
- Flower-supporting stand. J. M. Ankers. No. 1,369,315; Feb. 22; v. 283; p. 618.
- Flowerpot or other vessel. R. D. Wells. No. 1,391,353; Sept. 20; v. 290; p. 516.
- Flue-block. J. J. McKeone. No. 1,375,925; Apr. 26; v. 285; p. 626.
- Flue-blower. R. E. Jackson and E. M. Jenkins. No. 1,383,210; June 28; v. 287; p. 713.
- Flue-cleaner. W. Nechville. No. 1,392,202; Sept. 27; v. 290; p. 761.
- Flue-cleaner. J. Soderquist. No. 1,390,831; Sept. 13; v. 290; p. 347.
- Flue extension, Adjustable. S. A. Spencer. No. 1,374,866; Apr. 12; v. 285; p. 329.
- Flue-stop. J. E. Cloud and H. F. Stalter. No. 1,401,316; Dec. 27.
- Flue-stopper. L. J. Allie. No. 1,401,936; Dec. 27.
- Flue-stopper. W. R. Carroll. No. 1,397,753; Nov. 22.
- Flue tool, Boiler. C. M. Spangler. No. 1,400,102; Dec. 13.
- Fluid-actuated motor. L. C. Bayles. No. 1,395,032; Oct. 25.
- Fluid-actuated rotary tool. F. A. Jimerson. No. 1,385,134; July 19; v. 288; p. 520.
- Fluid actuating and control engine. A. D. Miller. No. 1,372,764; Mar. 29; v. 284; p. 782.



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- Fluid-agitating apparatus. N. D. Nielsen. No. 1,375,168; Apr. 19; v. 285; p. 449.
- Fluid. Apparatus for proportioning streams of. J. S. Peoples. No. 1,393,824; Oct. 18.
- Fluid, Applying a coating. S. W. Bourn. No. 1,387,963; Aug. 16; v. 289; p. 520.
- Fluid-applying machine. F. M. Furber. No. 1,376,524; May 3; v. 286; p. 27.
- Fluid-applying machine. A. S. Hayden. No. 1,376,538; May 3; v. 286; p. 30.
- Fluid clutch and transmission. J. M. and F. C. Russell. No. 1,388,311; Aug. 23; v. 289; p. 647.
- Fluid combustibles, Self-cleaning burner for. W. H. Chadick. No. 1,367,947; Feb. 8; v. 283; p. 268.
- Fluid-compressing apparatus. J. S. Barner. No. 1,372,391; Mar. 22; v. 284; p. 670.
- Fluid-compressing apparatus. R. Suckek. No. 1,388,670; Aug. 23; v. 289; p. 717.
- Fluid-compressor. S. H. Human. No. 1,377,583; May 10; v. 286; p. 286.
- Fluid-compressor. R. Rolkerr. No. 1,376,291; Apr. 26; v. 285; p. 696.
- Fluid-compressor. L. Williams. No. 1,382,334; June 21; v. 287; p. 492.
- Fluid compressor, exhauster, mover, or engine, Rotary. W. G. Hay. No. 1,367,256; Feb. 1; v. 283; p. 74.
- Fluid-conditioning apparatus. W. A. Lindauer. No. 1,379,831; May 31; v. 286; p. 913.
- Fluid-conducting fitting. H. F. Peck. No. 1,368,196; Feb. 8; v. 283; p. 314.
- Fluid-conducting structure. S. W. Sedgwick. No. 1,389,997; Sept. 6; v. 290; p. 88.
- Fluid-control feed. J. L. Perkins and F. W. Sickles. No. 1,372,903; Mar. 29; v. 284; p. 811.
- Fluid-controlled actuating means. S. F. Arbuckle. No. 1,398,291; Nov. 29.
- Fluid-controlling apparatus. E. J. Wiggins. No. 1,397,190; Nov. 15.
- Fluid-current motor. H. J. Scharnagel. No. 1,401,651; Dec. 27.
- Fluid-differential. C. H. Patten. No. 1,374,603; Apr. 12; v. 285; p. 278.
- Fluid dispenser and spreader, Bottle-cap. J. Erwin. No. 1,378,016; May 17; v. 286; p. 422.
- Fluid-displacing apparatus. B. Skidmore, Jr. No. 1,390,390; Sept. 13; v. 290; p. 258.
- Fluid-gage. W. H. and C. W. Bristol. No. 1,371,018; Mar. 8; v. 284; p. 285.
- Fluid-gage. H. Hastings. No. 1,379,404; May 24; v. 286; p. 759.
- Fluid-gage. W. Richter. No. 1,391,077; Sept. 20; v. 290; p. 460.
- Fluid-gage. O. C. Ritz-Woller. No. 1,366,214; Jan. 18; v. 282; p. 503.
- Fluid-heater. W. A. and J. A. Doble. No. 1,395,399; Nov. 1.
- Fluid-heater. J. H. Hanley, Jr., and J. L. Krieg. No. 1,397,282; Nov. 15.
- Fluid-leakage, Means for catching and restoring. F. E. Payne. No. 1,390,379; Sept. 13; v. 290; p. 256.
- Fluid-level indicator. H. Hastings. No. 1,365,099; Jan. 11; v. 282; p. 247.
- Fluid-level regulator. C. B. McAulay and E. C. Hutchinson. No. 1,382,735; June 28; v. 287; p. 623.
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- Fluid measuring device. J. C. Moore. No. 1,379,122; May 24; v. 286; p. 706.
- Fluid-meter. H. Chrisman. No. 1,400,523; Dec. 20.
- Fluid-mixer. D. J. Powers. No. 1,373,634; Apr. 5; v. 285; p. 49.
- Fluid-mixing device. C. Dederer. No. 1,366,120; Jan. 18; v. 282; p. 485.
- Fluid mixtures, Desiccating. J. C. MacLachlan. No. 1,398,735; Nov. 29.
- Fluid-operated banker. G. F. Fletcher. No. 1,364,266; Jan. 4; v. 282; p. 43.
- Fluid-operated motor. G. M. Nell. No. 1,399,223; Dec. 6.
- Fluid-pressure and regenerative brake, Combined. W. V. Turner. No. 1,400,841; Dec. 20.
- Fluid-pressure apparatus. F. E. Matthews. No. 1,384,477; July 12; v. 288; p. 302.
- Fluid-pressure brake. C. C. Farmer. No. 1,400,594; Dec. 20.
- Fluid-pressure brake. C. C. Farmer. No. 1,400,597; Dec. 20.
- Fluid-pressure brake. C. G. Simonds. No. 1,365,795; Jan. 18; v. 282; p. 422.
- Fluid-pressure brake. H. H. Westinghouse. No. 1,390,597; Sept. 13; v. 290; p. 300.
- Fluid-pressure-brake device. S. W. Dudley. No. 1,400,670; Dec. 20.
- Fluid-pressure brakes, Protection device for. R. S. Aikman. No. 1,400,651; Dec. 20.
- Fluid-pressure control. C. J. Pilliod. No. 1,382,119; June 21; v. 287; p. 452.
- Fluid-pressure engine. W. E. Baker. No. 1,391,446; Sept. 20; v. 290; p. 535.
- Fluid-pressure generator with automatic air-compressor. G. J. Ferguson. No. 1,382,769; June 28; v. 287; p. 629.
- Fluid-pressure motor. F. A. Engh. No. 1,373,415; Apr. 5; v. 285; p. 7.
- Fluid-pressure multiplier, Elastic. C. H. Smoot. No. 1,381,139; June 14; v. 287; p. 209.
- Fluid-pressure-operating device. D. S. Jacobus. No. 1,393,446; Oct. 11.
- Fluid-pressure rail-brake. P. J. Gaillard. No. 1,379,548; May 24; v. 286; p. 786.
- Fluid-pressure system. F. S. Vaughn. No. 1,396,482; Nov. 8.
- Fluid-pressure system. V. V. Veenschoten. No. 1,396,237; Nov. 8.
- Fluid-pressure system. V. V. Veenschoten. No. 1,399,280; Dec. 6.
- Fluid-regulating device, Automatic. W. E. Brown. No. 1,375,555; Apr. 19; v. 285; p. 523.
- Fluid streams, Electrical precipitation of particles from. C. W. Girvin. No. 1,378,224; May 17; v. 286; p. 461.
- Fluid-translating device. H. F. Schmidt. No. 1,386,958; Aug. 9; v. 289; p. 269.
- Fluid-treating apparatus. W.-Y. Wu. No. 1,364,230; Jan. 4; v. 282; p. 35.
- Fluids and gases under pressure, Valve for controlling the flow of. J. M. Miller. No. 1,374,860; Apr. 12; v. 285; p. 327.
- Fluids, Apparatus for mixing. W. O. Snelling. No. 1,378,384; May 17; v. 286; p. 491.
- Fluids, Device for controlling the flow of. P. West. No. 1,376,596; May 3; v. 286; p. 41.
- Fluids from sealed containers without contamination, Withdrawing. J. J. Seelman. No. 1,392,454; Oct. 4.
- Fluids in closed conduits, Measurement of the flow of. N. R. Gibson. No. 1,398,097; Nov. 22.
- Fluids, Means for intermixing. O. F. Brunann. No. 1,387,832; Aug. 16; v. 289; p. 496.
- Fluids, Means for regulating the flow of. P. V. Dean. No. 1,388,632; Aug. 23; v. 289; p. 709.
- Fluids, Method of an apparatus for feeding. C. Offenhausser. No. 1,400,972; Dec. 20.
- Fluids, Taps for controlling the supply of. E. C. Tonkin and H. T. Collins. No. 1,381,766; June 14; v. 287; p. 326.
- Flume. E. C. Doak. No. 1,364,487; Jan. 4; v. 282; p. 86.
- Flume, Sheet-metal. L. Reed. No. 1,380,318; May 31; v. 286; p. 1005.
- Fluorids, Making. H. B. Bishop. No. 1,382,165; June 21; v. 287; p. 460.
- Flush, Automatic. J. P. Wares. No. 1,380,086; May 31; v. 286; p. 962.
- Flush-tank. W. R. Hursey. No. 1,381,465; June 14; v. 287; p. 268.
- Flush-tank and flush-valve therefor. W. G. Munkel. No. 1,379,712; May 31; v. 286; p. 891.
- Flush-tank apparatus. S. W. Lewis. No. 1,377,712; May 10; v. 286; p. 310.
- Flush-tanks, Waste control for. R. H. Keegan. No. 1,386,785; Aug. 9; v. 289; p. 234.
- Flushing apparatus. H. J. Bresson. No. 1,396,400; Nov. 8.
- Flushing apparatus. A. H. Klahn. No. 1,383,273; June 28; v. 287; p. 275.
- Flushing device, Portable. W. E. Lewis, J. S. Adamson, and M. J. Mahon. No. 1,395,125; Oct. 25.
- Flushing mechanism, Automatic. J. C. Adell. No. 1,388,499; Aug. 23; v. 289; p. 685.
- Flushing-tank for siphon-closets. J. S. Sweeny. No. 1,382,028; June 21; v. 287; p. 435.
- Fluxer stirring-arm. G. Komarek. No. 1,370,893; Mar. 8; v. 284; p. 261.
- Fly-catcher. M. Demko. No. 1,371,870; Mar. 15; v. 284; p. 513.
- Fly-escape screen. G. W. Mittelstaedt. No. 1,378,601; May 17; v. 286; p. 534.
- Fly or other insect trap. O. M. Dorsey. No. 1,371,200; Mar. 8; v. 284; p. 319.
- Fly-swatter. C. G. Coe. No. 1,399,193; Dec. 6.
- Fly-swatter. C. R. Coup. No. 1,387,922; Aug. 16; v. 289; p. 513.
- Fly-swatter. J. Dir. No. 1,368,247; Feb. 15; v. 283; p. 372.
- Fly-trap. L. Cusi. No. 1,370,414; Mar. 1; v. 284; p. 124.
- Fly-trap. W. L. Hall. No. 1,381,824; June 14; v. 287; p. 337.
- Flycatcher. V. Niewinski. No. 1,364,949; Jan. 11; v. 282; p. 218.
- Flyswatter and brush, Combined. C. A. Riek. No. 1,393,571; Oct. 11.
- Flytrap. C. P. Hasselgren. No. 1,369,242; Feb. 22; v. 283; p. 605.
- Flytrap. F. Hofey. No. 1,387,716; Aug. 16; v. 289; p. 472.
- Flytrap. R. Leland. No. 1,386,415; Aug. 2; v. 289; p. 89.
- Flytrap. F. L. Sandoz. No. 1,369,357; Feb. 22; v. 283; p. 627.
- Flytrap. W. S. Wallace. No. 1,379,948; May 31; v. 286; p. 935.
- Flytrap. M. E. Wilson. No. 1,374,539; Apr. 12; v. 285; p. 265.
- Flytrap, Sanitary. A. B. Heller. No. 7,392,156; Sept. 27; v. 290; p. 751.
- Flytrap, Sanitary. H. E. Martin. No. 1,373,441; Apr. 5; v. 285; p. 12.
- Flytraps. A. G. Carlson. No. 1,373,650; Apr. 5; v. 285; p. 52.
- Flying-boat hull. C. E. Bedel. No. 1,364,425; Jan. 4; v. 282; p. 73.



*Alphabetical list of inventions—Continued.*

- Flying-cruiser. N. G. Cox. No. 1,380,191; May 31; v. 286; p. 981.
- Flying-machine. H. A. Ayvad. No. 1,369,875; Mar. 1; v. 284; p. 23.
- Flying-machine. F. A. Berg. No. 1,367,114; Feb. 1; v. 283; p. 46.
- Flying-machine. T. Bird. No. 1,364,174; Jan. 4; v. 282; p. 25.
- Flying-machine. G. Caproni. No. 1,400,262; Dec. 13.
- Flying-machine. R. A. Engler. No. 1,394,814; Oct. 25.
- Flying-machine. R. A. Engler. No. 1,394,816; Oct. 25.
- Flying-machine. D. Penske. No. 1,378,100; May 17; v. 286; p. 438.
- Flying-machine. O. P. Frovarp. No. 1,372,498; Mar. 22; v. 284; p. 690.
- Flying-machine. L. S. Gardner. No. 1,384,608; July 12; v. 288; p. 330.
- Flying-machine. M. Gobelin. No. 1,366,255; Jan. 18; v. 282; p. 511.
- Flying-machine. J. Hallstead. No. 1,364,752; Jan. 4; v. 282; p. 136.
- Flying-machine. W. Haupt. No. 1,388,642; Aug. 23; v. 289; p. 711.
- Flying-machine. C. A. Herrmann. No. 1,365,995; Jan. 18; v. 282; p. 461.
- Flying-machine. P. C. Hewitt. No. 1,378,112; May 17; v. 286; p. 440.
- Flying-machine. P. C. Hewitt. No. 1,378,114; May 17; v. 286; p. 441.
- Flying-machine. C. E. and W. G. Hicks. No. 1,398,781; Nov. 29.
- Flying-machine. C. E. Holt. No. 1,370,445; Mar. 1; v. 284; p. 131.
- Flying-machine. H. G. Hooper. No. 1,397,761; Nov. 22.
- Flying-machine. M. T. Kion. No. 1,375,298; Apr. 19; v. 285; p. 475.
- Flying-machine. G. H. Locuson. No. 1,387,501; Aug. 16; v. 289; p. 429.
- Flying-machine. V. Mattivi. No. 1,389,959; Sept. 6; v. 290; p. 81.
- Flying-machine. H. E. Montague. No. 1,378,368; May 17; v. 286; p. 488.
- Flying-machine. G. W. Riley. No. 1,398,393; Nov. 29.
- Flying-machine. F. M. Rilleau. No. 1,376,584; May 3; v. 286; p. 39.
- Flying-machine. J. D. Roots. No. 1,364,522; Jan. 4; v. 282; p. 93.
- Flying-machine. J. W. Smith. No. 1,396,974; Nov. 15.
- Flying-machine. R. M. Smith. No. 1,398,922; Nov. 29.
- Flying-machine. H. Vass. No. 1,386,916; Aug. 9; v. 289; p. 262.
- Flying-machine. High-altitude. S. D. Mott. No. 1,380,406; June 7; v. 287; p. 15.
- Flying-machine. Multiplane. G. Caproni. No. 1,367,458; Feb. 1; v. 283; p. 115.
- Flying-machine of the helicopter type. Captive. W. Zurovec. No. 1,389,925; Sept. 6; v. 290; p. 74.
- Flying-machine of the helicopter type. Captive. W. Zurovec, Jr. No. 1,397,998; Nov. 22.
- Flying-machines. Air-engine for. C. E. Holt. No. 1,371,204; Mar. 8; v. 284; p. 320.
- Flying-machines. Apparatus for landing. H. Gernsback. No. 1,392,140; Sept. 27; v. 290; p. 748.
- Flying-machines. Lift-indicator for. A. S. Reynolds. No. 1,387,514; Aug. 16; v. 289; p. 432.
- Flying-machines. Rotatable armor-plate for the protection of the coolers of. A. H. G. Fokker. No. 1,389,558; Aug. 30; v. 289; p. 948.
- Flying-machines. Safety attachment for. G. H. Ricke. No. 1,382,599; June 21; v. 287; p. 543.
- Flying-machines. Stepped lenticular system for heat and light concentrating to be used on. P. Geneste. No. 1,390,258; Sept. 6; v. 290; p. 139.
- Flywheel. W. L. R. Emmet. No. 1,365,473; Jan. 11; v. 282; p. 319.
- Foam or froth dissipator. O. Ohrvall. No. 1,389,101; Aug. 30; v. 289; p. 857.
- Focus indicator-furnace. E. F. Northrup. No. 1,378,187; May 17; v. 286; p. 455.
- Focusing attachment. A. L. Patterson. No. 1,397,231; Nov. 15.
- Focusing device. A. F. Jobke. No. 1,399,347; Dec. 6.
- Fodder-disintegrator. G. M. Merwin. (Reissue.) No. 15,050; Feb. 22; v. 283; p. 708.
- Foldable article and joint therefor. J. C. Pewther. No. 1,379,285; May 24; v. 286; p. 736.
- Foldable box. W. J. Smouse. No. 1,373,365; Mar. 29; v. 284; p. 902.
- Foldable toilet-chair. Child's. W. C. Rathjen. No. 1,391,791; Sept. 27; v. 290; p. 677.
- Folded blank box. A. A. Brown. No. 1,366,309; Jan. 18; v. 282; p. 521.
- Folding box. E. Aberle. No. 1,394,134; Oct. 18.
- Folding box. A. W. Benjamin. No. 1,368,100; Feb. 8; v. 283; p. 295.
- Folding box. J. N. Davis. No. 1,375,489; Apr. 19; v. 285; p. 510.
- Folding box. S. Freund. No. 1,383,714; July 5; v. 288; p. 95.
- Folding box. E. G. Gereke. No. 1,364,839; Jan. 4; v. 282; p. 152.
- Folding box. E. E. Pinkerton. No. 1,383,148; June 28; v. 287; p. 701.
- Folding box-table. W. M. Webster and G. D. Wernli. No. 1,381,682; June 14; v. 287; p. 310.
- Folding cardboard box. E. G. Gereke. No. 1,383,929; July 5; v. 288; p. 139.
- Folding chair. J. Grooms. No. 1,398,854; Nov. 29.
- Folding chair. R. C. Kerr. No. 1,366,913; Feb. 1; v. 283; p. 6.
- Folding chair. F. Marzak. No. 1,374,213; Apr. 12; v. 285; p. 202.
- Folding chair. A. L. Ribeiro. No. 1,381,136; June 14; v. 287; p. 208.
- Folding chair. L. Scheibe. No. 1,388,146; Aug. 16; v. 289; p. 556.
- Folding chair. L. C. Travers. No. 1,396,794; Nov. 15.
- Folding chair. H. J. Willems. No. 1,399,835; Dec. 13.
- Folding drawing-knife. C. B. Simmons. No. 1,400,382; Dec. 13.
- Folding frame. H. Mintz. No. 1,385,021; July 19; v. 288; p. 496.
- Folding gate. W. T. Castleberry. No. 1,377,396; May 10; v. 286; p. 251.
- Folding loose-bottom box. O. C. Fenlason. No. 1,381,978; June 21; v. 287; p. 426.
- Folding luggage-carrier. L. L. Limoges. No. 1,393,294; Oct. 11.
- Folding-machine. W. J. Beattie. No. 1,389,117; Aug. 30; v. 289; p. 860.
- Folding-machine. F. P. Hildebrandt. No. 1,384,563; July 12; v. 288; p. 320.
- Folding-machine. W. F. Lautenschlager. No. 1,399,264; Dec. 6.
- Folding-machine. C. P. Winter. No. 1,399,098; Dec. 6.
- Folding mechanism. F. M. Joslin. No. 1,400,292; Dec. 13.
- Folding screen-tent for outdoor beds. J. H. Sheney. No. 1,385,589; July 26; v. 288; p. 688.
- Folding seat. R. G. Schaub. No. 1,387,315; Aug. 9; v. 289; p. 340.
- Folding stand. R. E. Dice. No. 1,392,486; Oct. 4.
- Folding stand. W. G. Young. No. 1,382,707; June 28; v. 287; p. 618.
- Folding table. G. J. Korn. No. 1,378,178; May 17; v. 286; p. 453.
- Folding table. H. G. Norwood. No. 1,381,588; June 14; v. 287; p. 292.
- Folding table. J. C. Pewther. No. 1,379,284; May 24; v. 286; p. 736.
- Folding table. J. E. Springer. No. 1,369,943; Mar. 1; v. 284; p. 36.
- Folding table. F. W. A. Techmer. No. 1,368,666; Feb. 15; v. 283; p. 454.
- Folding table, Camper's. H. Puff. No. 1,368,452; Feb. 15; v. 283; p. 412.
- Folio holder, March-. D. W. Godard. No. 1,388,333; Aug. 23; v. 289; p. 651.
- "Fondant" chocolate and similar chocolates, Manufacturing of high-class. F. G. Fryer and B. G. McLellan. No. 1,387,377; Aug. 9; v. 289; p. 353.
- "Fondant" chocolate and similar chocolates, Manufacturing of high-class. F. G. Fryer and B. G. McLellan. No. 1,387,378; Aug. 9; v. 289; p. 353.
- "Fondant" chocolate and similar chocolates, Manufacturing of high-class. F. G. Fryer and B. G. McLellan. No. 1,387,379; Aug. 9; v. 289; p. 353.
- Font, Sanitary blessing-. E. T. Phelps. No. 1,367,829; Feb. 8; v. 283; p. 245.
- Food and food products. Preparation of. J. G. Goodhue and H. L. Trube. No. 1,365,909; Jan. 18; v. 282; p. 444.
- Food and food products. Preparation of. J. G. Goodhue and H. L. Trube. No. 1,365,910; Jan. 18; v. 282; p. 444.
- Food and making same, Cereal. C. Ellis. No. 1,382,963; June 28; v. 287; p. 666.
- Food and producing same, Whole-rice. A. M. Gurjar. No. 1,377,125; May 3; v. 286; p. 142.
- Food-boiler. R. Pfahl. No. 1,374,108; Apr. 5; v. 285; p. 142.
- Food-chopper. J. M. Feeney. No. 1,399,295; Dec. 6.
- Food-chopper. A. Kulakowski. No. 1,367,402; Feb. 1; v. 283; p. 104.
- Food-chopper. E. C. Norcross. No. 1,374,092; Apr. 5; v. 285; p. 138.
- Food composition and preparing same, Animal. L. C. Sharp. No. 1,395,746; Nov. 1.
- Food compound. B. E. Clarke. No. 1,397,723; Nov. 22.
- Food compound and making same. J. H. Sassee. No. 1,401,498; Dec. 27.
- Food-container, Hygienic thermos. H. E. Welty. No. 1,371,336; Mar. 15; v. 284; p. 409.
- Food container, Liquid-. O. F. Wagenhorst. No. 1,366,438; Jan. 25; v. 282; p. 591.
- Food-conveyer. C. E. Swartzbaugh. No. 1,375,121; Apr. 19; v. 285; p. 440.
- Food, Desiccating. J. F. Kelly. No. 1,393,540; Oct. 11.
- Food, Infant. F. H. Borchardt. No. 1,375,893; Apr. 26; v. 285; p. 620.
- Food, Manufacture of cereal. E. H. McKay. No. 1,388,873; Aug. 30; v. 289; p. 811.
- Food obtained from fish and making the same. S. Satow. No. 1,370,049; Mar. 1; v. 284; p. 56.
- Food or confection. Article of. J. R. Franzen. No. 1,368,984; Feb. 15; v. 283; p. 514.
- Food or like cooler, Iceless. F. O. Adams. No. 1,372,471; Mar. 22; v. 284; p. 684.



## Alphabetical list of inventions—Continued.

- Food preparation and making same. H. S. Cullen. No. 1,373,651; Apr. 5; v. 285; p. 52.
- Food preparation from fresh blood, Manufacture of. F. Sgalitzer. No. 1,380,427; June 7; v. 287; p. 20.
- Food, Preparing cereal. J. Friedman. No. 1,393,997; Oct. 18.
- Food-press. G. W. Ferdon. No. 1,399,708; Dec. 6.
- Food product. J. D. Bourdeau and W. B. Fink. No. 1,381,858; June 14; v. 287; p. 343.
- Food product. M. A. Heginger. No. 1,376,334; Apr. 26; v. 285; p. 704.
- Food product. S. Luft. No. 1,380,815; June 7; v. 287; p. 94.
- Food product. R. D. McDill. No. 1,365,000; Jan. 11; v. 282; p. 229.
- Food product. L. J. Schumaker. No. 1,366,961; Feb. 1; v. 283; p. 16.
- Food product. S. P. Snyder. No. 1,385,503; July 26; v. 288; p. 671.
- Food product. F. W. Stockton. No. 1,395,934; Nov. 1.
- Food product and making same. R. D. McDill. No. 1,365,001; Jan. 11; v. 282; p. 229.
- Food product and making same. C. H. Simpson. No. 1,389,389; Aug. 30; v. 289; p. 915.
- Food product and making same. P. C. Wadsworth. No. 1,400,191; Dec. 13.
- Food product and making the same. F. C. Atkinson. No. 1,391,160; Sept. 20; v. 290; p. 477.
- Food product and manufacture. V. A. White. No. 1,382,038; June 21; v. 287; p. 437.
- Food product and preparing. F. C. Atkinson. No. 1,391,161; Sept. 20; v. 290; p. 477.
- Food product and preparing same. R. W. Crocker. No. 1,385,246; July 19; v. 288; p. 542.
- Food product and preparing same. R. W. Crocker. No. 1,388,699; Aug. 23; v. 289; p. 722.
- Food product containing hydrogenated oil. C. Ellis. No. 1,390,689; Sept. 13; v. 290; p. 319.
- Food product. Granular. J. C. MacLachlan. No. 1,394,035; Oct. 18.
- Food product made from corn and manufacturing the same. A. W. H. Lenders. No. 1,391,065; Sept. 20; v. 290; p. 457.
- Food product. Whole-wheat. C. F. Brockmeyer. No. 1,374,185; Apr. 12; v. 285; p. 197.
- Food products. J. F. Waters. No. 1,381,526; June 14; v. 287; p. 280.
- Food products and other materials, Apparatus for dehydrating or drying. W. D. Edwards. No. 1,369,411; Feb. 22; v. 283; p. 637.
- Food products, Apparatus for heating, roasting, and cooking. H. Prell. No. 1,398,114; Nov. 22.
- Food products, Pneumatic mechanism for conveying and stacking. E. E. Lawrence and K. D. Loose. No. 1,377,136; May 3; v. 286; p. 144.
- Food products, Preparing malted. J. W. Allen. No. 1,385,352; July 26; v. 288; p. 639.
- Foods and beverages, Preparation of fruits for. O. Hayda. No. 1,377,681; May 10; v. 286; p. 305.
- Foods and desserts, Apparatus for dispensing congealed. F. A. White. No. 1,380,029; May 31; v. 286; p. 951.
- Foods, Cooking. J. F. and W. A. Logan. No. 1,365,928; Jan. 18; v. 282; p. 448.
- Foods in containers, Continuous cooker for. S. E. Walker. No. 1,382,148; June 21; v. 287; p. 456.
- Foods, Preserving liquid. H. Heuser. No. 1,390,709; Sept. 13; v. 290; p. 322.
- Foodstuff, Animal. F. W. Gee. No. 1,365,393; Jan. 11; v. 282; p. 303.
- Foodstuffs, Producing. W. B. McLaughlin. No. 1,380,489; June 7; v. 287; p. 31.
- Foot-actuators and cut-out valves, Combined operating mechanism for. K. J. Johnson. No. 1,364,113; Jan. 4; v. 282; p. 13.
- Foot, Arch-support for the. S. B. Tusis. No. 1,380,504; June 7; v. 287; p. 34.
- Foot, Arch-support for the human. M. Keppner. No. 1,395,498; Nov. 1.
- Foot-control device. J. A. Staples. No. 1,367,509; Feb. 1; v. 283; p. 125.
- Foot-forms and fitting shoes thereon, Forming individual. J. B. Butler. No. 1,372,273; Mar. 22; v. 284; p. 647.
- Foot-measure. T. B. Blake. No. 1,391,714; Sept. 27; v. 290; p. 662.
- Foot-rest. E. H. Coble. No. 1,396,000; Nov. 1.
- Foot-supporter. H. H. McClellan. No. 1,374,669; Apr. 12; v. 285; p. 291.
- Foot troubles, Two-piece arch-support for correcting metatarsal. E. Heintze. No. 1,401,254; Dec. 27.
- Foot-warmer, Electric. M. C. Rasen. No. 1,377,435; May 10; v. 286; p. 259.
- Footboard. B. C. Williams. No. 1,373,284; Mar. 29; v. 284; p. 887.
- Footprint-spanner. J. J. O'Keefe. No. 1,387,659; Aug. 16; v. 289; p. 460.
- Footrest. E. L. Wood. No. 1,399,837; Dec. 13.
- Footrest, Invalid. F. H. Townsend. No. 1,365,750; Jan. 18; v. 282; p. 412.
- Footwear. F. A. Joseph. No. 1,382,648; June 28; v. 287; p. 606.
- Footwear. K. B. Mathes. No. 1,365,261; Jan. 11; v. 282; p. 278.
- Footwear. C. Streb. No. 1,399,822; Dec. 13.
- Footwear. L. Trolle. No. 1,386,637; Aug. 9; v. 289; p. 204.
- Footwear, Making. F. A. Joseph. No. 1,382,649; June 28; v. 287; p. 607.
- Footwear protector. K. Slasor. No. 1,382,748; June 28; v. 287; p. 625.
- Footwear-support. C. W. Loudenslager. No. 1,385,328; July 19; v. 288; p. 558.
- Footwear-tread, Detachable. W. H. Chenery. No. 1,399,542; Dec. 6.
- Forage-cutter. L. C. Sharp. No. 1,390,548; Sept. 13; v. 290; p. 290.
- Force and danger indicator, Side-. M. J. Klein. No. 1,368,941; Feb. 15; v. 283; p. 507.
- Force and danger indicator, Side-. M. J. Klein. No. 1,370,320; Mar. 1; v. 284; p. 107.
- Forced-feed lubricator. F. A. Goodfellow. No. 1,369,422; Feb. 22; v. 283; p. 639.
- Force-feed lubricator. R. Wood. No. 1,371,289; Mar. 15; v. 284; p. 400.
- Force-feed lubricator, Automatic. A. Russ. No. 1,399,522; Dec. 6.
- Force-feed and operating device, Combined. I. J. Blair. No. 1,384,116; July 12; v. 288; p. 227.
- Forced articles and process and apparatus for making the same. F. Offenhäuser. No. 1,390,375; Sept. 13; v. 290; p. 255.
- Forceps. R. Barbour. No. 1,400,653; Dec. 20.
- Forceps. S. T. Cohane. No. 1,376,005; Apr. 26; v. 285; p. 641.
- Forceps. A. B. Johnson. No. 1,395,714; Nov. 1.
- Forceps, Pig-. J. Markus. No. 1,380,995; June 7; v. 287; p. 129.
- Ford-engine stand. C. C. Price and D. V. Bridwell. No. 1,373,526; Apr. 5; v. 285; p. 29.
- Foreign-body localizer. A. Granger. No. 1,370,640; Mar. 8; v. 284; p. 214.
- Forge, Portable. S. E. Wright. No. 1,369,869; Mar. 1; v. 284; p. 22.
- Forging and dies therefor. F. B. Bell. No. 1,381,102; June 14; v. 287; p. 202.
- Forging-machine. F. R. Long. No. 1,370,978; Mar. 8; v. 284; p. 278.
- Forging-machine for the manufacture of horseshoes, &c., Automatic. D. E. Glynn. No. 1,399,764; Dec. 13.
- Forging or casting with gripping and driving lugs. C. G. Helby, J. Burkam, D. E. Lindquist, F. L. Riggan, E. W. Allen, and R. Lau. No. 1,373,724; Apr. 5; v. 285; p. 66.
- Forging temperature, Method and apparatus for heating long blanks to. W. B. Peirce. No. 1,397,603; Nov. 22.
- Forgings, Method of and die for producing. C. G. Helby, C. A. Hill, and D. E. Lindquist. No. 1,373,726; Apr. 5; v. 285; p. 67.
- Forgings, Producing. C. G. Helby, J. Burkam, D. E. Lindquist, F. L. Riggan, E. W. Allen, and R. Lau. No. 1,373,725; Apr. 5; v. 285; p. 66.
- Fork: See—
- Auto-fork. Trolley-wheel fork.
- Bale-fork. Weighing-fork.
- Manure-loading fork.
- Fork and rake, Reversible. T. J. McIntosh. No. 1,393,299; Oct. 11.
- Fork for handling fodder. W. F. Elliott. No. 1,378,772; May 17; v. 286; p. 567.
- Form, Adjustable dress-. A. Pecoraro. No. 1,375,316; Apr. 19; v. 285; p. 478.
- Form and making it, Multiple. L. Ingersoll. No. 1,368,729; Feb. 15; v. 283; p. 466.
- Form, Collapsible. W. H. Maltman and T. R. McCoy. No. 1,391,747; Sept. 27; v. 290; p. 669.
- Form, Collapsible. O. D. Shaw. No. 1,365,200; Jan. 11; v. 282; p. 266.
- Form, Commercial. J. Primbs. No. 1,401,641; Dec. 27.
- Form, Hair-. A. A. MacIntyre. No. 1,368,567; Feb. 15; v. 283; p. 435.
- Form-lifter. L. M. Convert. No. 1,397,241; Nov. 15.
- Forms or cores, Apparatus for removing flexible articles from their. J. W. Brundage. No. 1,365,764; Jan. 18; v. 282; p. 415.
- Forming apparatus. T. H. Seely. No. 1,375,802; Apr. 26; v. 285; p. 602.
- Forming-machine. F. L. Walter. No. 1,395,935; Nov. 1.
- Formaldehyde, Producing. G. C. Bailey and A. E. Craver. No. 1,383,059; June 28; v. 287; p. 685.
- Formaldehyde products, Seal for solid. O. J. Berge. No. 1,371,724; Mar. 15; v. 284; p. 486.
- Formograph. F. W. Wodrich. No. 1,393,000; Oct. 11.
- Fortune-telling device. F. Knowles. No. 1,398,462; Nov. 29.
- Fouling and composition therefor, Preventing. J. A. Lillie. No. 1,392,068; Sept. 27; v. 290; p. 734.
- Foundation-bolt. R. S. Peelle. No. 1,381,428; June 14; v. 287; p. 262.
- Foundry molding machine. P. Pritchard. No. 1,384,777; July 19; v. 288; p. 445.
- Foundry plant for the production of cast-iron pipes and other columnar-form articles centrifugally. J. R. McWane. No. 1,386,269; Aug. 2; v. 289; p. 61.
- Fountain: See—
- Drinking fountain. Soda-fountain.
- Fountain. F. M. de Beers. No. 1,382,274; June 21; v. 287; p. 480.



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- Fountain, Drinking-. D. W. Bowlizer. No. 1,366,055; Jan. 18; v. 282; p. 472.
- Fountain, Drinking-. H. W. Taylor. No. 1,367,997; Feb. 8; v. 283; p. 275.
- Fountain, Drinking-. E. T. Webster. No. 1,395,374; Nov. 1.
- Fountain floor and furniture polisher. M. Croner. No. 1,389,743; Sept. 6; v. 290; p. 37.
- Fountain for stock, Drinking-. B. Atkinson. No. 1,364,473; Jan. 4; v. 282; p. 83.
- Fountain-pen indicator. A. O. Dahlberg. No. 1,365,463; Jan. 11; v. 282; p. 317.
- Fountain, Sanitary drinking-. H. Morin and F. Pothier. No. 1,396,380; Nov. 8.
- Fountain, Sanitary drinking-. H. W. Taylor. No. 1,372,845; Mar. 29; v. 284; p. 799.
- Fountain, Watering-. C. G. Peltier. No. 1,378,053; May 17; v. 286; p. 429.
- Fountains, Bubbler for drinking. T. E. Bart. No. 1,376,916; May 3; v. 286; p. 102.
- Four-cycle internal-combustion engine. C. A. Hult. No. 1,389,873; Sept. 6; v. 290; p. 63.
- Four-cycle internal-combustion engine. J. Hutchinson. No. 1,378,352; May 17; v. 286; p. 485.
- Fourdrinier machine. A. J. Davies. No. 1,399,008; Dec. 6.
- Fourdrinier wire, Method and apparatus for controlling water on a. F. W. Monaghan. No. 1,366,821; Jan. 25; v. 282; p. 668.
- Fowl-spray, Automatic. B. A. Shaw. No. 1,396,533; Nov. 8.
- Fowling-pieces, rifles, &c. Safety device for. A. W. A. Barnard. No. 1,379,288; May 24; v. 286; p. 727.
- Fractionating apparatus. H. F. Perkins. No. 1,386,020; Aug. 2; v. 289; p. 12.
- Frame: See—
- Agricultural - implement frame.
  - Artificial-arm frame.
  - Auto-top window-frame.
  - Auto-window frame.
  - Automobile-frame.
  - Automobile tilting frame.
  - Bed-frame.
  - Bed-spring frame.
  - Brick-carrying frame.
  - Camera matting-frame.
  - Cap-spinning frame.
  - Clock-frame.
  - Collapsible clamp-bed frame.
  - Creeper-frame.
  - Directory-frame.
  - Display-frame.
  - Door or window frame.
  - Embroidery-frame.
  - Eyeglass-frame.
  - Folding frame.
  - Hacksaw-frame.
  - Implement-frame.
  - Light-frame.
  - Locomotive-tender frame.
  - Mattress-frame.
  - Metal window-frame.
  - Mica-light frame.
  - Motorcycle-frame.
  - Photographic-film-supporting frame.
  - Photographic - printing frame.
  - Picture-frame.
  - Pile-fabric frame.
  - Poster-frame.
  - Printing-frame.
  - Quilting-frame.
  - Sheet-metal backing-frame.
  - Shutter-frame.
  - Side frame.
  - Spectacle-frame.
  - Telescopic picture-frame.
  - Tensioned frame.
  - Tie-frame.
  - Traveling bleaching-frame.
  - Trial-frame.
  - Trial spectacle-frame.
  - Trolley-frame.
  - Truck side frame.
  - Vacuum pressure-frame.
  - Vehicle-top frame.
  - Warp-stop-motion frame.
  - Window-frame.
  - Wire hair-frame.
- Frame, T. W. O'Connor. No. 1,376,222; Apr. 26; v. 285; p. 682.
- Frame and sash construction. T. E. Walker. No. 1,382,578; June 21; v. 287; p. 539.
- Frame and tie-bar connection, Side. G. G. Floyd. No. 1,390,434; Sept. 13; v. 290; p. 267.
- Frame construction. D. E. Lewellen. No. 1,386,939; Aug. 9; v. 289; p. 266.
- Frame, Greenhouse and horticultural. J. C. De Jong. No. 1,368,613; Feb. 15; v. 283; p. 443.
- Frame structure. D. J. Murnane. No. 1,376,895; May 3; v. 286; p. 98.
- Frame suspension, Yieldable. E. E. Wickersham. No. 1,365,430; Jan. 11; v. 282; p. 311.
- Frames, Adjustable guard for stanchion-supporting. E. A. Roessler. No. 1,380,500; June 7; v. 287; p. 33.
- Frames and tie-bars, Connection between side. G. G. Floyd. No. 1,385,440; July 26; v. 283; p. 657.
- Frames, Retaining means for. C. F. Brecht. No. 1,388,697; Aug. 23; v. 289; p. 722.
- Framing and miter gage. J. H. Knight. No. 1,397,589; Nov. 22.
- Framing-tool. W. E. Foore. No. 1,394,298; Oct. 18.
- Framework or chassis construction, Underhang. H. A. Benedict and E. M. Moller. No. 1,387,757; Aug. 16; v. 289; p. 481.
- Freeze-expansion-absorbing device. M. B. Parker. No. 1,381,426; June 14; v. 287; p. 261.
- Freezer. C. F. Howell. No. 1,376,016; Apr. 26; v. 285; p. 643.
- Freezer, Continuous. J. F. Pfeiffer. No. 1,396,972; Nov. 15.
- Freezing-can. A. J. Bentley. No. 1,399,287; Dec. 6.
- Freezing of fish and other articles of food. N. Dahl. No. 1,367,024; Feb. 1; v. 283; p. 28.
- Freezing-tank. A. J. Instone. No. 1,367,394; Feb. 1; v. 283; p. 102.
- Freight carriers, Clamp for. H. W. Kirchner. No. 1,396,961; Nov. 15.
- Freight-house stamp. H. H. McFillen. No. 1,365,002; Jan. 11; v. 282; p. 229.
- Freight transference, Apparatus for. G. E. Titcomb. No. 1,373,464; Apr. 5; v. 285; p. 17.
- Frequency, Apparatus for regulating. H. E. Warren. No. 1,390,318; Sept. 13; v. 290; p. 244.
- Frequency-changer. F. W. Meyer. No. 1,394,325; Oct. 18.
- Frequency transformations, Means for. E. F. W. Alexander. No. 1,382,877; June 28; v. 287; p. 650.
- Friction-barrel. G. Q. Lewis. No. 1,372,705; Mar. 29; v. 284; p. 771.
- Friction-brake. P. Pasquariello. No. 1,383,013; June 28; v. 287; p. 676.
- Friction-coupling. P. W. Sieurin. No. 1,368,361; Feb. 15; v. 283; p. 394.
- Friction device, Antistatic. A. Bunger. No. 1,396,318; Nov. 8.
- Friction-drive mechanism. R. Sykora. No. 1,401,505; Dec. 27.
- Friction-drums, Roller thrust-bearing for. J. N. Wisdom. No. 1,373,929; Apr. 5; v. 285; p. 108.
- Friction-gear press. H. Stommel. No. 1,366,970; Feb. 1; v. 283; p. 18.
- Friction-gear, Variable-speed. G. Barker. No. 1,372,638; Mar. 22; v. 284; p. 717.
- Friction, Means for reducing. J. B. Gury. No. 1,381,188; June 14; v. 287; p. 218.
- Friction side seal. H. E. Townsend. No. 1,365,295; Jan. 11; v. 282; p. 285.
- Friction transmission mechanism. H. McDermott. No. 1,387,550; Aug. 16; v. 289; p. 439.
- Friction-wrench, Adjustable. J. A. Pitsch. No. 1,382,851; June 28; v. 287; p. 645.
- Frictionless spring. E. D. Brown. No. 1,387,041; Aug. 9; v. 289; p. 286.
- Frog, Reversible. R. P. Weaver. No. 1,391,226; Sept. 20; v. 290; p. 490.
- Frog, Swimming. W. H. Esenwein. No. 1,393,518; Oct. 11.
- Front-axle radius-rod. G. S. King. No. 1,383,817; July 5; v. 288; p. 116.
- Front-axle radius-rod. G. S. King. No. 1,392,175; Sept. 27; v. 290; p. 755.
- Frost, Means to protect vegetation from. G. E. Andersson. No. 1,372,793; Mar. 29; v. 284; p. 788.
- Froth-breaking device. W. O. Borchardt. No. 1,376,073; Apr. 26; v. 285; p. 655.
- Frothing and mineral selective agent and using same. R. Luckenbach. No. 1,386,716; Aug. 9; v. 289; p. 220.
- Fruit and nut catcher. C. E. Allshouse. No. 1,371,999; Mar. 22; v. 284; p. 595.
- Fruit and other articles and making same, Artificial. M. W. Grinnell. No. 1,366,380; Jan. 25; v. 282; p. 579.
- Fruit and vegetable cutter. G. Modnicki. No. 1,386,349; Aug. 2; v. 289; p. 77.
- Fruit and vegetables, Apparatus and process for peeling. S. J. Dunkley. No. 1,396,268; Nov. 8.
- Fruit-box press. W. G. Price. No. 1,388,201; Aug. 23; v. 289; p. 624.
- Fruit-canner. H. J. Schmitz. No. 1,388,065; Aug. 16; v. 289; p. 540.
- Fruit corer and cutter. H. E. Meyers. No. 1,365,118; Jan. 11; v. 282; p. 251.
- Fruit cutting and pitting table. D. Low and W. H. Gavin. No. 1,364,289; Jan. 4; v. 282; p. 48.
- Fruit-cutting machine. A. F. Thornton. No. 1,365,129; Jan. 11; v. 282; p. 253.
- Fruit, Device for dipping artificial. F. Ordine. No. 1,396,458; Nov. 8.
- Fruit-dipping machine. W. W. Beardsley. No. 1,373,113; Mar. 29; v. 284; p. 852.
- Fruit-drier. T. B. Hunter. No. 1,370,211; Mar. 1; v. 284; p. 86.
- Fruit gager and gatherer. C. B. Hysom. No. 1,376,338; Apr. 26; v. 285; p. 705.
- Fruit-gatherer. V. Byman. No. 1,385,111; July 19; v. 288; p. 515.
- Fruit-gatherer. G. C. Moore. No. 1,364,399; Jan. 4; v. 282; p. 68.
- Fruit-gatherer. G. Sromovsky. No. 1,397,464; Nov. 15.
- Fruit-gatherer and tree-trimmer. J. Halicki. No. 1,370,208; Mar. 1; v. 284; p. 85.
- Fruit-grader. O. N. Boyer. No. 1,386,549; Aug. 2; v. 289; p. 114.
- Fruit-graders and other purposes, Elevator for. W. P. Thomas. No. 1,365,565; Jan. 11; v. 282; p. 337.
- Fruit-handling machine. J. H. Tompkins and C. J. Foster. No. 1,379,600; May 24; v. 286; p. 795.
- Fruit-holder for pitting-machines. G. R. Paranteau. No. 1,392,520; Oct. 4.
- Fruit-huller. A. Pearce. No. 1,399,870; Dec. 13.
- Fruit-jars and the like, Pump for. S. S. Sager. No. 1,384,780; July 19; v. 288; p. 446.
- Fruit-jars, Holder for. T. G. Melish. No. 1,385,841; July 26; v. 288; p. 739.
- Fruit-jars, Protecting device for. C. W. Young. No. 1,387,749; Aug. 16; v. 289; p. 479.
- Fruit juices, Manufacture of grape and other. R. W. Berridge. No. 1,393,422; Oct. 11.
- Fruit-juices, Mechanism for extracting and dispensing. D. J. Gorman. No. 1,399,474; Dec. 6.
- Fruit, Machine for extracting juice from. J. C. Liggett. No. 1,401,416; Dec. 27.



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- Fruit, Machine for removing the cores and stones from. F. Robbins. No. 1,387,183; Aug. 9; v. 289; p. 314.
- Fruit-marking machine, Electric. L. Neuenchwander. No. 1,367,077; Feb. 1; v. 283; p. 39.
- Fruit or vegetable masher. A. T. Stewart. No. 1,398,473; Nov. 29.
- Fruit, Peeling. A. R. Thompson. No. 1,389,796; Sept. 6; v. 290; p. 47.
- Fruit-picker. L. M. Barnes. No. 1,374,176; Apr. 12; v. 285; p. 196.
- Fruit-picker. C. Charnoph. No. 1,390,760; Sept. 13; v. 290; p. 333.
- Fruit-picker. J. H. Emerson. No. 1,388,106; Aug. 16; v. 289; p. 549.
- Fruit-picker. G. P. Frey and V. S. Knopp. No. 1,368,496; Feb. 15; v. 283; p. 421.
- Fruit-picker. Q. McCrie. No. 1,373,898; Apr. 5; v. 285; p. 101.
- Fruit-picker. F. J. Miller. No. 1,387,064; Aug. 9; v. 289; p. 291.
- Fruit-picker. H. S. Pownell. No. 1,367,889; Feb. 8; v. 283; p. 255.
- Fruit-picker. T. C. Schultze. No. 1,373,531; Apr. 5; v. 285; p. 30.
- Fruit-picker's bag. W. F. Keeline. No. 1,394,187; Oct. 18.
- Fruit-picking net. L. M. Fleckner. No. 1,366,563; Jan. 25; v. 282; p. 616.
- Fruit-pits and their kernels, Separating. S. Hiller. No. 1,374,657; Apr. 12; v. 285; p. 289.
- Fruit-pitting machine. C. S. Leonard. No. 1,392,690; Oct. 4.
- Fruit-pitting machine. G. R. Paranteau. No. 1,392,518; Oct. 4.
- Fruit-pitting machines, Knife for. G. R. Paranteau. No. 1,392,519; Oct. 4.
- Fruit preservative and using same. R. D. McDill. No. 1,400,086; Dec. 13.
- Fruit-press. J. Smith. No. 1,366,291; Jan. 18; v. 282; p. 518.
- Fruit receiving and conveying device. C. Bagnall. No. 1,380,033; May 31; v. 286; p. 952.
- Fruit, Rind-cutter and corer for citrus. M. Krota. No. 1,389,765; Sept. 6; v. 290; p. 41.
- Fruit-sizing apparatus. F. J. Pearson. No. 1,399,317; Dec. 6.
- Fruit-sizing machine. A. H. McIntyre. No. 1,385,218; July 19; v. 288; p. 537.
- Fruit-sizing machine. W. K. Price. (Reissue.) No. 1,521,8; Nov. 1.
- Fruit, Stand for packing. C. A. Brand. No. 1,382,950; June 23; v. 287; p. 663.
- Fruit-thinning implement. F. F. Johanson. No. 1,378,791; May 17; v. 286; p. 570.
- Fruit, vegetables, and the like, Apparatus for cutting. J. E. Kennedy. No. 1,395,425; Nov. 1.
- Fruit washer and scalding, Combined. W. A. Beckett. No. 1,390,268; Sept. 13; v. 290; p. 234.
- Fruits and vegetables, Processing-machine for. W. F. Schaller. No. 1,381,347; June 14; v. 287; p. 246.
- Fruits, Extracting juices from root. O. Mengelbier. No. 1,372,891; Mar. 29; v. 284; p. 809.
- Frying-pan. J. G. King. No. 1,396,848; Nov. 15.
- Frying-pan. H. W. and A. E. Zimmermann. No. 1,368,007; Feb. 8; v. 283; p. 277.
- Fuel. C. Le Petit. No. 1,377,992; May 10; v. 286; p. 365.
- Fuel. C. H. Urquhart. No. 1,386,473; Aug. 2; v. 289; p. 99.
- Fuel-agitator. A. H. Corum. No. 1,395,801; Nov. 1.
- Fuel and making the same, Solid. H. L. Fisher. No. 1,389,638; Sept. 6; v. 290; p. 16.
- Fuel and producing same. L. W. Bates. No. 1,375,811; Apr. 26; v. 285; p. 603.
- Fuel and producing same. L. W. Bates. No. 1,382,457; June 21; v. 287; p. 516.
- Fuel and producing same. L. W. Bates. No. 1,390,228; Sept. 6; v. 290; p. 134.
- Fuel and producing same. L. W. Bates. No. 1,390,231; Sept. 6; v. 290; p. 134.
- Fuel, Apparatus for burning pulverized. W. W. Conard. No. 1,370,091; Mar. 1; v. 284; p. 64.
- Fuel, Apparatus for economizing. W. A. Watterson. No. 1,384,223; July 12; v. 288; p. 249.
- Fuel, Apparatus for feeding pulverized. E. C. Covert. No. 1,365,662; Jan. 18; v. 282; p. 395.
- Fuel, Apparatus for feeding pulverized. E. C. Covert. No. 1,365,663; Jan. 18; v. 282; p. 395.
- Fuel, Apparatus for the production of artificial. R. Bowen. No. 1,397,571; Nov. 22.
- Fuel, Apparatus for using powdered. A. G. Kinyon. No. 1,396,761; Nov. 15.
- Fuel, Apparatus for utilizing lump-. J. H. Cooper. No. 1,396,097; Nov. 8.
- Fuel-burner. W. O. Amsler. No. 1,369,602; Feb. 22; v. 283; p. 674.
- Fuel-burner. H. P. Porter. No. 1,395,139; Oct. 25.
- Fuel, Burner for fluid. A. L. Wilson. No. 1,375,948; Apr. 26; v. 285; p. 630.
- Fuel, Burner for gaseous. D. M. De Silva. No. 1,379,538; May 24; v. 286; p. 785.
- Fuel-burning apparatus. E. C. Jacobsen. No. 1,391,385; Sept. 20; v. 290; p. 522.
- Fuel-burning apparatus, Pulverized-. S. G. Down and C. D. Stewart. No. 1,388,030; Aug. 16; v. 289; p. 538.
- Fuel, Burning comminuted. J. H. Cooper. No. 1,397,266; Nov. 15.
- Fuel-burning heaters, Smoke-purifying attachment for. O. H. Titus. No. 1,392,093; Sept. 27; v. 290; p. 739.
- Fuel-burning method and furnace. W. C. Drake. No. 1,391,767; Sept. 27; v. 290; p. 672.
- Fuel, Burning pulverized. H. G. Barnhurst. No. 1,382,712; June 28; v. 287; p. 619.
- Fuel combustion, Means for securing. J. A. Sherman and W. H. Sheppard. No. 1,382,391; June 21; v. 287; p. 503.
- Fuel, Composite motor-. J. P. Foster. No. 1,384,946; July 19; v. 288; p. 480.
- Fuel-containers, Self-puncture-sealing covering for. G. J. Murdock. No. 1,386,791; Aug. 9; v. 289; p. 236.
- Fuel control, Automatic. G. N. Blanchard. No. 1,387,583; Aug. 16; v. 289; p. 445.
- Fuel-control, Automatic. T. W. Crane. No. 1,400,868; Dec. 20.
- Fuel conveying and crushing mechanism. N. M. Lower. No. 1,384,138; July 12; v. 288; p. 232.
- Fuel cut-off, Automatic. E. S. King. No. 1,399,967; Dec. 13.
- Fuel, Device for burning vaporous or gaseous. M. M. Gillam. No. 1,397,003; Nov. 15.
- Fuel-distributor. N. M. Lower. No. 1,391,744; Sept. 27; v. 290; p. 668.
- Fuel-economizer. C. O. Clark. No. 1,399,689; Dec. 6.
- Fuel-economizer. G. L. Protz. No. 1,392,447; Oct. 4.
- Fuel-economizing device. G. Horvath. No. 1,377,963; May 10; v. 286; p. 360.
- Fuel, Electric heater for liquid. A. W. Le Page. No. 1,382,518; June 21; v. 287; p. 527.
- Fuel feed and mixture control, Automatic. E. E. Wickersham. No. 1,395,022; Oct. 25.
- Fuel, Feed-regulator for powdered. W. P. Keyser and J. A. Moore. No. 1,388,185; Aug. 23; v. 289; p. 619.
- Fuel-feed system. C. Pohl. No. 1,381,331; June 14; v. 287; p. 243.
- Fuel feeder, Pulverized-. W. O. Amsler. No. 1,370,872; Mar. 8; v. 284; p. 254.
- Fuel feeding and ignition means. A. R. Long. No. 1,384,473; July 12; v. 288; p. 301.
- Fuel-feeding device. J. C. Coulombe. No. 1,395,224; Oct. 25.
- Fuel-feeding device. W. Sparks. No. 1,398,206; Nov. 22.
- Fuel-feeding device, Automatic. A. S. King. No. 1,370,120; Mar. 1; v. 284; p. 69.
- Fuel-feeding device for engines. J. C. Coulombe. No. 1,365,154; Jan. 11; v. 282; p. 258.
- Fuel, Feeding device for pulverulent. K. H. V. von Porat. No. 1,364,533; Jan. 4; v. 282; p. 94.
- Fuel-feeding mechanism. A. G. Elvin, A. B. Fahnestock, and F. H. Clark. No. 1,376,521; May 3; v. 286; p. 27.
- Fuel-feeding system. C. H. Braselton. No. 1,367,454; Feb. 1; v. 283; p. 113.
- Fuel-feeding system. W. H. Muzzy. No. 1,391,204; Sept. 20; v. 290; v. 485.
- Fuel-feeding system. C. Pohl. No. 1,397,780; Nov. 22.
- Fuel-feeding system, Vacuum. F. D. Nelson. No. 1,396,940; Nov. 15.
- Fuel, Gasification of solid. F. G. C. Rincker. No. 1,388,145; Aug. 16; v. 289; p. 556.
- Fuel-heating apparatus for intake-manifolds. J. W. Durham. No. 1,390,101; Sept. 6; v. 290; p. 110.
- Fuel-heating attachment. W. D. Bell. No. 1,366,157; Jan. 18; v. 282; p. 492.
- Fuel-heating device, Liquid-. C. H. Foster. No. 1,398,012; Nov. 22.
- Fuel-igniter. C. J. Vlasak. No. 1,381,951; June 21; v. 287; p. 421.
- Fuel in furnaces, Feeding device for pulverulent. K. H. V. von Porat. No. 1,364,532; Jan. 4; v. 282; p. 94.
- Fuel-indicator. L. Cooper. No. 1,380,369; June 7; v. 287; p. 7.
- Fuel-injector. W. Crow and J. C. Schaffer. No. 1,368,702; Feb. 15; v. 283; p. 461.
- Fuel-injector plungers, Actuating means for. R. H. Randall. No. 1,390,541; Sept. 13; v. 290; p. 289.
- Fuel, Making motor-. A. Hayes. No. 1,378,858; May 24; v. 286; p. 656.
- Fuel, Means for and method of igniting. R. F. Ensign. No. 1,376,194; Apr. 26; v. 285; p. 677.
- Fuel, Means for heating liquid. A. W. Le Page. No. 1,382,519; June 21; v. 287; p. 527.
- Fuel-mixer. F. F. Hughes. No. 1,398,899; Nov. 29.
- Fuel-mixture controller. R. E. Russell. No. 1,391,144; Sept. 20; v. 290; p. 474.
- Fuel, Motor-. F. W. Rohrs. No. 1,399,227; Dec. 6.
- Fuel, Motor-. W. T. Schreiber. No. 1,398,948; Nov. 29.
- Fuel, Motor. E. W. Stevens. No. 1,388,531; Aug. 23; v. 289; p. 690.
- Fuel-oil burner. A. R. Anthony. No. 1,396,086; Nov. 8.
- Fuel-oil burner. W. M. Hoffman. No. 1,378,115; May 17; v. 286; p. 441.
- Fuel-oil burner. W. J. Mead. No. 1,392,958; Oct. 11.
- Fuel-oil burner. J. E. Rodgers. No. 1,392,450; Oct. 4.
- Fuel-oil burner. F. C. Starr. No. 1,381,095; June 7; v. 287; p. 148.
- Fuel-oil-gas mixer. C. O. Ericson. No. 1,393,517; Oct. 11.
- Fuel outlets, Safety device for fluid-. W. J. Dudley. No. 1,368,707; Feb. 15; v. 283; p. 462.
- Fuel, Oxidizing. T. J. Stephens. No. 1,369,200; Feb. 22; v. 283; p. 596.



- Fuel, Peat. S. C. Davidson. No. 1,384,012; July 5; v. 288; p. 157.
- Fuel, Preparing. C. H. Urquhart. No. 1,386,472; Aug. 2; v. 289; p. 99.
- Fuel, Preparing lignite for. S. M. Darling. No. 1,382,629; June 28; v. 287; p. 602.
- Fuel-press. C. H. Davis. No. 1,400,212; Dec. 13.
- Fuel, Producing. E. C. D'Yarmett. No. 1,376,925; May 3; v. 286; p. 104.
- Fuel, Producing motor-. J. B. McCabe. No. 1,376,713; May 3; v. 286; p. 63.
- Fuel, Production of artificial. R. Bowen. No. 1,397,572; Nov. 22.
- Fuel-pulverizing apparatus. J. H. Cooper. No. 1,388,551; Aug. 23; v. 289; p. 694.
- Fuel-reclaiming apparatus. S. A. Stoneback. No. 1,389,394; Aug. 30; v. 289; p. 916.
- Fuel-reserve-supply system. C. F. Green and H. W. Lindsey, Jr. No. 1,379,812; May 31; v. 286; p. 910.
- Fuel-reserve-supply system. F. Jerdone, Jr. No. 1,390,446; Sept. 13; v. 290; p. 269.
- Fuel-reserve-supply system for self-propelled vehicles. F. Jerdone, Jr. No. 1,397,523; Nov. 22.
- Fuel-saver and air-circulator. H. E. Armstrong. No. 1,382,880; June 28; v. 287; p. 650.
- Fuel-saver and primer. A. G. Hunt. No. 1,393,535; Oct. 11.
- Fuel-saver and smoke-consumer. L. D. West. No. 1,390,946; Sept. 13; v. 290; p. 371.
- Fuel-saver, Automatic. D. K. Texada and J. N. Oksenholt. No. 1,390,179; Sept. 6; v. 290; p. 125.
- Fuel-saving device. F. S. Miller. No. 1,392,695; Oct. 4.
- Fuel-saving device. A. P. Thomasson. No. 1,396,472; Nov. 8.
- Fuel-separator and fuel vaporizer, Carbureted-. C. F. Smith. No. 1,394,948; Oct. 25.
- Fuel-stoking apparatus, Automatic. C. D. Stewart. No. 1,378,385; May 17; v. 286; p. 492.
- Fuel supply and blending and engine-starting means, Motor-. W. E. Chenot. No. 1,364,712; Jan. 4; v. 282; p. 128.
- Fuel-supply-control mechanism. A. E. Walden. No. 1,395,212; Oct. 25.
- Fuel-supply system, Engine-. A. Buchl. No. 1,384,512; July 12; v. 288; p. 309.
- Fuel-tank. C. F. Green and H. W. Lindsey, Jr. No. 1,364,841; Jan. 4; v. 282; p. 153.
- Fuel-tank, Detachable. R. Caudron. No. 1,379,525; May 24; v. 286; p. 782.
- Fuel-tank-filling systems, Separator for suction. H. J. Weiershauser. No. 1,393,862; Oct. 18.
- Fuel-tank outlet. T. P. Ouder Kirk. No. 1,385,390; July 26; v. 288; p. 647.
- Fuel-tanks, Leakage-prevention arrangement for. E. Thomson. No. 1,365,567; Jan. 11; v. 282; p. 837.
- Fuel-tanks, Reserve-provider for. J. J. Richards. (Re-issue.) No. 15,129; June 21; v. 287; p. 545.
- Fuel, Treating liquid. E. E. Wickersham. No. 1,376,180; Apr. 26; v. 285; p. 674.
- Fuel-vaporizing heater. S. L. Whitright. No. 1,392,729; Oct. 4.
- Fuel water-heater using a fluid. J. F. Goodwin. No. 1,382,283; June 21; v. 287; p. 482.
- Fuels, and means therefor, Vaporizing liquid. R. M. Pierson. No. 1,385,793; July 26; v. 288; p. 730.
- Fuels, Apparatus for making motor-. W. E. Chenot. No. 1,385,860; July 26; v. 288; p. 743.
- Fulcrum Tank Company. (See Tulis, John K., assignor.)
- Fulcrum, Brakebeam. G. Harman, T. E. Cannon, and N. C. Bettenburg. No. 1,374,448; Apr. 12; v. 285; p. 248.
- Fulcrum, Brake-beam. V. B. Rice. No. 1,368,352; Feb. 15; v. 283; p. 393.
- Fulling-mills, Soap-feeder for. V. Starbard. No. 1,373,030; Mar. 29; v. 284; p. 836.
- Fumeless stackless heater. A. J. Hartfield. No. 1,371,481; Mar. 15; v. 284; p. 439.
- Fumigating and spraying apparatus. W. G. Dingle. (Re-issue.) No. 15,248; Dec. 20.
- Fumigating-cover. A. W. Morrill. No. 1,372,974; Mar. 29; v. 284; p. 825.
- Fumigator. H. Loeb. No. 1,386,125; Aug. 2; v. 289; p. 32.
- Fumigator. T. Mayes. No. 1,371,801; Mar. 15; v. 284; p. 500.
- Fumigator, Formaldehyde-. W. H. Sharp. No. 1,389,074; Aug. 30; v. 289; p. 852.
- Funeral and burial apparatus. R. F. McCampbell, G. H. Scott, and G. Q. Smith. No. 1,375,793; Apr. 26; v. 285; p. 600.
- Fungicide and insecticide and producing same. D. S. Pratt. No. 1,374,951; Apr. 19; v. 285; p. 407.
- Funnel. E. C. Hodges. No. 1,364,759; Jan. 4; v. 282; p. 137.
- Funnel. D. S. Jackson. No. 1,379,569; May 24; v. 286; p. 790.
- Funnel. M. E. Ott. No. 1,399,150; Dec. 6.
- Funnel. T. Shimadzu. No. 1,378,729; May 17; v. 286; p. 559.
- Funnel. C. W. Vincent. No. 1,396,606; Nov. 8.
- Funnel, Collapsible. E. E. Gustafson. No. 1,373,722; Apr. 5; v. 285; p. 66.
- Funnel, Dipper-. F. S. Minch. No. 1,368,448; Feb. 15; v. 283; p. 411.
- Funnel, Jar-filling. R. G. Melchior. No. 1,368,640; Feb. 15; v. 283; p. 449.
- Fur, Making artificial. H. T. Nowell. No. 1,371,804; Mar. 15; v. 284; p. 501.
- Fur-stretcher. A. C. Aylor. No. 1,372,263; Mar. 22; v. 284; p. 645.
- Fur-stretcher. J. E. Fritch. No. 1,383,923; July 5; v. 288; p. 138.
- Fur-stretcher. H. M. Montgomery. No. 1,398,907; Nov. 29.
- Fur-stretcher. J. H. Sprague. No. 1,371,650; Mar. 15; v. 284; p. 471.
- Furs, Machine for cleaning. G. A. and C. Heineke. No. 1,377,247; May 10; v. 286; p. 222.
- Furring-strip. F. T. Georgeson, C. E. Tabor, and L. B. Poyfaire. No. 1,389,866; Sept. 6; v. 290; p. 61.
- Furnace. *See*—
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|-----------------------------------|------------------------------|
| Air-heating furnace.              | Hot-water furnace.           |
| Automatic furnace.                | Incinerating-furnace.        |
| Blast-furnace.                    | Kettle-furnace.              |
| Boiler-furnace.                   | Liquid-fuel-burning furnace. |
| Brass-furnace.                    | Mechanically-stoked furnace. |
| Carbonizing-furnace.              | Melting-furnace.             |
| Coal-dust furnace.                | Metallurgical furnace.       |
| Continuous-heating furnace.       | Oil-burning furnace.         |
| Crucible-furnace.                 | Open-hearth furnace.         |
| Cyanid-furnace.                   | Ore-roasting furnace.        |
| Distillation-furnace.             | Ore-smelting furnace.        |
| Electric furnace.                 | Ore-treating furnace.        |
| Electric glass-annealing furnace. | Plastic-material furnace.    |
| Electric rotating furnace.        | Puddling-furnace.            |
| Electric steel-furnace.           | Revolving furnace.           |
| Eyesight-furnace.                 | Shaft-furnace.               |
| Flattening-oven furnace.          | Slag-furnace.                |
| Floor-furnace.                    | Smelting-furnace.            |
| Gas-furnace.                      | Smoke-consuming furnace.     |
| Glass-furnace.                    | Soldering-furnace.           |
| Glass-melting furnace.            | Steel-furnace.               |
| Glass-pot furnace.                | Stoker-furnace.              |
| Glass-tank furnace.               | Surface-combustion furnace.  |
| Heating-furnace.                  | Underfeed furnace.           |
| Hot-air furnace.                  |                              |
- Furnace. W. K. Booth. No. 1,376,071; Apr. 26; v. 285; p. 654.
- Furnace. A. A. Bruder. No. 1,368,983; Feb. 15; v. 283; p. 514.
- Furnace. H. L. Charles. No. 1,394,470; Oct. 18.
- Furnace. J. Doersom. No. 1,378,529; May 17; v. 286; p. 520.
- Furnace. W. C. Drake. No. 1,400,036; Dec. 13.
- Furnace. W. M. Duncan. No. 1,365,668; Jan. 18; v. 282; p. 396.
- Furnace. W. M. Duncan. No. 1,365,968; Jan. 18; v. 282; p. 456.
- Furnace. N. F. Egler. No. 1,372,613; Mar. 22; v. 284; p. 712.
- Furnace. S. C. Evans. No. 1,388,810; Aug. 23; v. 289; p. 744.
- Furnace. M. J. Graney. No. 1,387,537; Aug. 16; v. 289; p. 436.
- Furnace. C. F. Guhlman. No. 1,370,309; Mar. 1; v. 284; p. 105.
- Furnace. G. J. Hagan. No. 1,382,503; June 21; v. 287; p. 525.
- Furnace. G. W. Howes. No. 1,366,124; Jan. 18; v. 282; p. 485.
- Furnace. G. W. Howes. No. 1,369,434; Feb. 22; v. 283; p. 641.
- Furnace. C. C. Keller. No. 1,371,490; Mar. 15; v. 284; p. 441.
- Furnace. C. F. Kenworthy. No. 1,388,575; Aug. 23; v. 289; p. 698.
- Furnace. R. W. King. No. 1,379,448; May 24; v. 286; p. 707.
- Furnace. C. J. Lane. No. 1,399,970; Dec. 13.
- Furnace. H. V. Leahy. No. 1,390,798; Sept. 13; v. 290; p. 340.
- Furnace. W. Lloyd. No. 1,394,421; Oct. 18.
- Furnace. R. Marx. No. 1,399,638; Dec. 6.
- Furnace. J. U. McDonald. No. 1,370,139; Mar. 1; v. 284; p. 72.
- Furnace. H. H. Peek. No. 1,400,454; Dec. 13.
- Furnace. J. S. Perrow. No. 1,390,309; Sept. 13; v. 290; p. 242.
- Furnace. A. E. Rudolphi. No. 1,379,723; May 31; v. 286; p. 893.
- Furnace. A. Smallwood. No. 1,373,152; Mar. 29; v. 284; p. 860.
- Furnace. A. Smallwood. No. 1,396,943; Nov. 15.
- Furnace. A. D. Sutton. No. 1,388,075; Aug. 16; v. 289; p. 542.
- Furnace. J. T. Wensius. No. 1,400,335; Dec. 13.
- Furnace. L. J. Westness. No. 1,369,069; Feb. 22; v. 283; p. 571.
- Furnace. W. G. Wise. No. 1,387,222; Aug. 9; v. 289; p. 320.
- Furnace and conveying materials therethrough. H. P. McCann. No. 1,400,367; Dec. 13.
- Furnace and venting thereof, Ore-. J. Labarthe. No. 1,370,215; Mar. 1; v. 284; p. 87.
- Furnace attachment. E. C. Mason. No. 1,394,634; Oct. 25.



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- Furnace burner. J. E. Hausfeld. No. 1,378,951; May 24; v. 286; p. 673.
- Furnace-casing. N. Frost. No. 1,394,821; Oct. 25.
- Furnace charging and smelting. J. Labarthe. No. 1,376,947; May 3; v. 286; p. 108.
- Furnace-cleaner. J. De Graff. No. 1,388,560; Aug. 23; v. 289; p. 695.
- Furnace control. Automatic. L. Garrison. No. 1,372,877; Mar. 29; v. 284; p. 806.
- Furnace cover or door. J. D. Adams. No. 1,386,218; Aug. 2; v. 289; p. 51.
- Furnace-damper regulator. T. Olinger and J. L. De Glopper. No. 1,399,984; Dec. 13.
- Furnace-door. J. R. Hall. No. 1,366,072; Jan. 18; v. 282; p. 475.
- Furnace door and frame. Open-hearth. G. Law. No. 1,391,196; Sept. 20; v. 290; p. 483.
- Furnace door and frame. Open-hearth. G. Law. No. 1,391,197; Sept. 20; v. 290; p. 484.
- Furnace door-operating mechanism. C. J. Pilliod. No. 1,391,690; Sept. 27; v. 290; p. 657.
- Furnace-doors. Automatic safety-latch for. E. L. Burky. No. 1,371,547; Mar. 15; v. 284; p. 452.
- Furnace doors. False sill for open-hearth. T. Porter. No. 1,399,516; Dec. 6.
- Furnace, electric. W. E. Moore. No. 1,378,972; May 24; v. 286; p. 677.
- Furnace, Electric. C. H. Priestley. No. 1,380,248; May 31; v. 286; p. 992.
- Furnace-eyesight. C. C. Kelley. No. 1,376,550; May 3; v. 286; p. 32.
- Furnace-eyesight. E. G. Zimmerman. No. 1,376,498; May 3; v. 286; p. 23.
- Furnace for buildings. Pipeless hot-air. J. J. Wollenhaupt. No. 1,377,539; May 10; v. 286; p. 277.
- Furnace for burning factory refuse. A. Margo. No. 1,390,304; Sept. 13; v. 290; p. 241.
- Furnace for burning liquid fuels and pulverulous coal. H. Horiuchi. No. 1,390,715; Sept. 13; v. 290; p. 323.
- Furnace for heating metals. E. A. Leslie and H. M. Brigham. No. 1,382,902; June 21; v. 287; p. 430.
- Furnace-front. J. Reid. No. 1,380,739; June 7; v. 287; p. 79.
- Furnace-front. H. A. Thompson. No. 1,388,077; Aug. 16; v. 289; p. 543.
- Furnace front. Oil-burning. J. Reid. No. 1,370,486; Mar. 1; v. 284; p. 139.
- Furnace front. Oil-burning. J. Reid. No. 1,380,740; June 7; v. 287; p. 79.
- Furnace-fronts. Liquid-fuel fitting for. L. E. Smith, C. Zulver, and H. A. Thompson. No. 1,393,646; Oct. 11.
- Furnace-fumes. Process and apparatus for recovering soluble constituents from. H. V. Welch. No. 1,382,037; June 21; v. 287; p. 437.
- Furnace-grate. G. W. Howes. No. 1,369,433; Feb. 22; v. 283; p. 641.
- Furnace-grate. J. T. Simpson. No. 1,391,014; Sept. 20; v. 290; p. 447.
- Furnace grate. Locomotive. D. L. Shaffer. No. 1,369,939; Mar. 1; v. 284; p. 35.
- Furnace-hopper. W. Lloyd. No. 1,396,715; Nov. 8.
- Furnace. Humidizing attachment for hot-air. J. O. Wrenn. No. 1,389,804; Sept. 6; v. 290; p. 49.
- Furnace or kiln. Rotary. G. F. Downs. No. 1,381,096; June 7; v. 287; p. 148.
- Furnace or oven. H. B. Cannon. No. 1,371,773; Mar. 15; v. 284; p. 494.
- Furnace or oven. H. B. Cannon. No. 1,371,774; Mar. 15; v. 284; p. 495.
- Furnace pipes. Dustproof connection for hot-air. A. J. Cheney. No. 1,399,748; Dec. 13.
- Furnace-register. T. Olinger. No. 1,399,985; Dec. 13.
- Furnace-roof. Suspended. J. G. Thomas. No. 1,372,848; Mar. 29; v. 284; p. 799.
- Furnace-tube. F. J. Metzger. No. 1,387,505; Aug. 16; v. 289; p. 429.
- Furnace-wall. E. Bernitz. No. 1,393,606; Oct. 11.
- Furnace with rotatable hearth. M. A. Turtle. No. 1,385,480; July 26; v. 288; p. 666.
- Furnaces. Air control for oil-burning. G. C. G. Gray. No. 1,373,501; Apr. 5; v. 285; p. 24.
- Furnaces. Air-moistener for hot-air. B. A. Mueller. No. 1,384,331; July 12; v. 288; p. 271.
- Furnaces. Air-moistening structure for hot-air. E. G. Liebold. No. 1,380,321; May 31; v. 286; p. 1006.
- Furnaces. Air preheating mechanism for mill. W. W. Lester. No. 1,389,059; Aug. 30; v. 289; p. 849.
- Furnaces and heaters. Air circulator and humidifier for. R. W. Monk. No. 1,365,842; Jan. 18; v. 282; p. 431.
- Furnaces and the like. Fire-bowl for. W. R. Litzenberg. No. 1,364,414; Jan. 4; v. 282; p. 77.
- Furnaces and underfeed stokers. Twyer construction for. H. Schmidt. No. 1,380,844; June 7; v. 287; p. 100.
- Furnaces. Apparatus for charging shaft. P. Zender. No. 1,393,480; Oct. 11.
- Furnaces. Automatic control for boiler. L. S. Powell. No. 1,370,765; Mar. 8; v. 284; p. 238.
- Furnaces. Automatic draft-regulating mechanism for. W. E. Shore. No. 1,365,349; Jan. 11; v. 282; p. 295.
- Furnaces. Automatic oil-burner for. A. E. Hauck. No. 1,381,708; June 14; v. 287; p. 315.
- Furnaces. Auxiliary heater for. O. J. Kuenhold. No. 1,375,848; Apr. 26; v. 285; p. 611.
- Furnaces. Baffle construction in boiler. A. C. Edgar. No. 1,373,226; Mar. 29; v. 284; p. 875.
- Furnaces. Cell for ring. J. D. Black. No. 1,383,378; July 5; v. 288; p. 25.
- Furnaces. Charging apparatus for annealing. E. E. Brosius. No. 1,389,238; Aug. 30; v. 289; p. 884.
- Furnaces. Control system for electric. R. T. Pierce. No. 1,367,089; Feb. 1; v. 283; p. 41.
- Furnaces. Cover-removing device for. A. L. Palmer. No. 1,390,581; Sept. 13; v. 290; p. 296.
- Furnaces. Current-regulator for electric. S. Burrowes. No. 1,385,974; July 26; v. 288; p. 765.
- Furnaces. Door-operating mechanism for tilting. J. S. McClimon. No. 1,376,819; May 3; v. 286; p. 83.
- Furnaces. Draft-regulator for. R. McCann. No. 1,380,666; June 7; v. 287; p. 65.
- Furnaces. Duplex grating for pipeless. W. J. Johnson. No. 1,394,260; Oct. 18.
- Furnaces. Electric-resistance heater for melting. A. von Zeerleder. No. 1,367,442; Feb. 1; v. 283; p. 111.
- Furnaces. Electric system for electric. H. A. Greaves and H. Etchells. No. 1,370,016; Mar. 1; v. 284; p. 50.
- Furnaces. Feeding device for roasting. W. F. Weekes. No. 1,378,068; May 17; v. 286; p. 432.
- Furnaces. Fire-bar for. J. A. Hill. No. 1,379,261; May 24; v. 286; p. 731.
- Furnaces. Firing apparatus for. M. F. Cox. No. 1,370,633; Mar. 8; v. 284; p. 212.
- Furnaces. Fuel-saving attachment for. C. A. Ryerson. No. 1,369,841; Mar. 1; v. 284; p. 17.
- Furnaces. Fuel-saving attachment for. J. J. A. Miller. No. 1,379,873; May 31; v. 286; p. 921.
- Furnaces. Fuel-saving attachment for. N. J. Russell. No. 1,380,597; June 7; v. 287; p. 52.
- Furnaces. Fuel-saving device for. N. J. Russell. No. 1,392,453; Oct. 4.
- Furnaces. Grate for boiler. C. H. Schroder. No. 1,369,553; Feb. 22; v. 283; p. 665.
- Furnaces. Machine for feeding work into and out of welding. F. J. Borie. No. 1,372,594; Mar. 22; v. 284; p. 709.
- Furnaces. Machine for repairing the lining of. T. T. Scott. No. 1,390,930; Sept. 13; v. 290; p. 368.
- Furnaces. Means for feeding fuel to. A. G. Fox. No. 1,366,779; Jan. 25; v. 282; p. 659.
- Furnaces. Means for feeding powdered fuel to. L. C. Harvey and H. S. Buckley. No. 1,389,828; Sept. 6; v. 290; p. 54.
- Furnaces of steam boilers. Water-arch for. R. G. Seaman. No. 1,397,460; Nov. 15.
- Furnaces. Oil-burner system for. A. Fisher. No. 1,385,534; July 26; v. 288; p. 677.
- Furnaces. Operating mechanism for electric. J. H. Gray. No. 1,376,758; May 3; v. 286; p. 71.
- Furnaces. Operation of blast. V. Lizounoff. No. 1,400,963; Dec. 20.
- Furnaces or other containers. Preventing the passage of gases of combustion through the walls of. C. M. Shipman. No. 1,387,739; Aug. 16; v. 289; p. 477.
- Furnaces. Port construction for. A. H. Goodman. No. 1,388,559; Aug. 23; v. 289; p. 695.
- Furnaces. Port-cooler for reversing regenerative. L. L. Knox. No. 1,385,008; July 19; v. 288; p. 493.
- Furnaces. Portable back wall for open-hearth. J. O. Griggs. No. 1,376,617; May 3; v. 286; p. 45.
- Furnaces. Preheater for. C. D. Bidwell. No. 1,382,757; June 28; v. 287; p. 627.
- Furnaces. Reversing apparatus for heating. V. E. Edwards. No. 1,367,657; Feb. 8; v. 283; p. 211.
- Furnaces. Stoker for. G. C. Illingworth. No. 1,392,063; Sept. 27; v. 290; p. 733.
- Furnaces. Water-cooler for. L. L. Knox. No. 1,371,906; Mar. 15; v. 284; p. 520.
- Furnaces. Water-pan for hot-air. H. L. Wood. No. 1,379,325; May 24; v. 286; p. 744.
- Furniture. O. Ellison. No. 1,399,706; Dec. 6.
- Furniture. G. Hyatt. No. 1,365,831; Jan. 18; v. 282; p. 429.
- Furniture. A. H. Luedde. No. 1,394,750; Oct. 25.
- Furniture and other articles. Ornamental rope covering for. J. M. Schorpp. No. 1,394,361; Oct. 18.
- Furniture. Arm-form for. G. Stackhouse. No. 1,384,165; July 12; v. 288; p. 237.
- Furniture. Article of. H. Bloom, M. Gerber, and J. Piterman. No. 1,374,716; Apr. 12; v. 285; p. 300.
- Furniture. Brace and corner-block for chairs and other articles of. D. E. Bellig. No. 1,380,518; June 7; v. 287; p. 37.
- Furniture-bumper. H. F. Tyler. No. 1,398,925; Nov. 29.
- Furniture. Caster for angle-bar. G. G. Greene. No. 1,396,681; Nov. 8.
- Furniture. Collapsible. J. E. Springer. No. 1,369,944; Mar. 1; v. 284; p. 36.
- Furniture. Combination. A. Danciewicz and W. B. Whitaker. No. 1,375,570; Apr. 19; v. 285; p. 526.
- Furniture. Combination. S. Hawresch, M. Rock, and B. Dworski. No. 1,380,904; June 7; v. 287; p. 111.
- Furniture. Combination. J. Pifko. No. 1,392,595; Oct. 4.
- Furniture. Combination article of. I. Ostafichuk. No. 1,381,134; June 14; v. 287; p. 208.
- Furniture. Combination article of. J. Sikoror. No. 1,373,150; Mar. 29; v. 284; p. 860.



- Furniture construction, Metal. H. E. White and H. F. Philbin. No. 1,374,868; Apr. 12; v. 285; p. 329.
- Furniture, Convertible. F. M. Davis. No. 1,386,397; Aug. 2; v. 289; p. 85.
- Furniture, Convertible. J. Freeman. No. 1,381,293; June 14; v. 287; p. 237.
- Furniture, Convertible. T. Hanley. No. 1,389,756; Sept. 6; v. 290; p. 39.
- Furniture, Convertible. P. Linder. No. 1,384,327; July 12; v. 288; p. 270.
- Furniture, Convertible article of. R. Russo. No. 1,388,895; Aug. 30; v. 289; p. 816.
- Furniture, Convertible domestic. C. E. James, A. Sandilands, and W. E. Smith. No. 1,365,409; Jan. 11; v. 282; p. 306.
- Furniture, Desk-. W. P. Hanlon. No. 1,381,825; June 14; v. 287; p. 337.
- Furniture, Folding. G. R. Stine. No. 1,367,437; Feb. 1; v. 283; p. 110.
- Furniture for printers, Extension. H. H. Hancock. Nos. 1,397,485-6; Nov. 15.
- Furniture, Interchangeable-unit store. A. Gach and G. Wilcox. No. 1,386,615; Aug. 9; v. 289; p. 200.
- Furniture, Knockdown. F. P. Holtzman. No. 1,372,072; Mar. 22; v. 284; p. 608.
- Furniture, Leg-fastening for. F. W. Pohle, Jr. No. 1,389,008; Aug. 30; v. 289; p. 839.
- Furniture-legs, Shoe for. C. B. Wagner, Jr. No. 1,400,781; Dec. 20.
- Furniture-model. I. Stevens. No. 1,374,247; Apr. 12; v. 285; p. 209.
- Furniture, Office. G. A. Ritz. No. 1,397,295; Nov. 15.
- Furniture-polish. A. N. Scheim. No. 1,396,346; Nov. 8.
- Furniture, Portable and collapsible article of. F. W. Putnam. No. 1,378,613; May 17; v. 286; p. 535.
- Furniture, Printer's. D. A. Hampson. No. 1,371,621; Mar. 15; v. 284; p. 466.
- Furniture, Sectional. B. L. Niles. No. 1,390,374; Sept. 18; v. 290; p. 255.
- Furniture, Sectional. W. E. Roberts. No. 1,373,528; Apr. 5; v. 285; p. 29.
- Furniture-spring. H. Josephson. No. 1,369,441; Feb. 22; v. 283; p. 643.
- Furniture, Store. W. M. Campbell. No. 1,383,980; July 5; v. 288; p. 150.
- Furniture, Ventilated. F. O. White. No. 1,372,057. Mar. 22; v. 284; p. 605.
- Furniture, Ventilated upholstered. F. O. White. No. 1,382,702; June 28; v. 287; p. 617.
- Furrow-opener. J. A. Harris. No. 1,390,437; Sept. 13; v. 290; p. 267.
- Fuse. J. H. Bradnack. No. 1,396,988; Nov. 15.
- Fuse. B. C. Candee and W. N. Pierce. No. 1,400,938; Dec. 20.
- Fuse. W. L. Clay and J. W. Taylor. No. 1,380,774; June 7; v. 287; p. 86.
- Fuse. G. E. Conrad. No. 1,367,179; Feb. 1; v. 283; p. 59.
- Fuse. A. F. Daum. No. 1,378,329; May 17; v. 286; p. 481.
- Fuse. A. F. Daum. No. 1,378,330; May 17; v. 286; p. 481.
- Fuse. C. T. McDonald. No. 1,396,333; Nov. 8.
- Fuse. B. L. Moss. No. 1,391,399; Sept. 20; v. 290; p. 525.
- Fuse. J. B. Semple. No. 1,369,476; Feb. 22; v. 283; p. 650.
- Fuse. E. W. Snow. No. 1,374,246; Apr. 12; v. 285; p. 209.
- Fuse-block. L. B. Anderson. No. 1,376,392; May 3; v. 286; p. 3.
- Fuse-bodies and forming the same, Blank for. C. G. Heiby, J. Burkam, D. E. Lindquist, F. L. Riggan, E. W. Allen, and R. Lau. No. 1,379,983; May 31; v. 286; p. 942.
- Fuse-bodies, Blank for and method of making. C. G. Heiby, J. Burkam, D. E. Lindquist, F. L. Riggan, E. W. Allen, and R. Lau. No. 1,393,121; Oct. 11.
- Fuse-box. T. A. Lee. No. 1,382,989; June 28; v. 287; p. 671.
- Fuse-cartridge. G. A. Conrad. No. 1,377,398; May 10; v. 286; p. 251.
- Fuse-cartridge. F. A. Feldkamp. No. 1,397,805; Nov. 22.
- Fuse-cartridge, Duplex. F. A. Feldkamp. No. 1,397,804; Nov. 22.
- Fuse, Combination all-ways impact and time. J. H. Swan. No. 1,374,121; Apr. 5; v. 285; p. 144.
- Fuse, Electric. E. H. Ellison. No. 1,391,534; Sept. 20; v. 290; p. 553.
- Fuse, Electric. R. J. Kingsley. No. 1,374,084; Apr. 5; v. 285; p. 137.
- Fuse, Electric. W. B. La Pointe. No. 1,398,436; Nov. 29.
- Fuse, Electric. A. W. Steele. No. 1,396,297; Nov. 8.
- Fuse, Electric. F. E. Willey. No. 1,393,281; Oct. 11.
- Fuse, Electrical. H. Snodgrass. No. 1,401,004; Dec. 20.
- Fuse for projectiles. F. A. Sutton. No. 1,393,585; Oct. 11.
- Fuse-holder. W. M. Brillhart. No. 1,364,976; Jan. 11; v. 282; p. 223.
- Fuse-holder. P. R. Oliver. No. 1,380,247; May 31; v. 286; p. 991.
- Fuse, Impact-. E. J. W. Ragsdale. No. 1,375,466; Apr. 19; v. 285; p. 506.
- Fuse, Inclosed. R. C. Cole. No. 1,400,661; Dec. 20.
- Fuse, Inclosed. C. T. McDonald. No. 1,379,114; May 24; v. 286; p. 704.
- Fuse, Inclosed or cartridge. W. J. Kramer. No. 1,388,269; Aug. 23; v. 289; p. 638.
- Fuse, Mechanical time-. H. Thiel. No. 1,372,574; Mar. 22; v. 284; p. 705.
- Fuse or cut-out. G. W. Conner. No. 1,396,255; Nov. 8.
- Fuse, Percussion-. R. R. Carey, W. L. Lukens, and L. N. D. Mixsell. No. 1,397,855; Nov. 22.
- Fuse, Percussion-. J. Flam. No. 1,385,610; July 26; v. 288; p. 693.
- Fuse-plug. E. H. Baxter. No. 1,379,436; May 24; v. 286; p. 765.
- Fuse-plug. E. H. Baxter. No. 1,384,028; July 5; v. 288; p. 159.
- Fuse-plug. R. B. Benjamin. No. 1,374,349; Apr. 12; v. 285; p. 228.
- Fuse-plug. W. R. Bennington. No. 1,380,461; June 7; v. 287; p. 26.
- Fuse-plug. R. C. Bronson. No. 1,396,352; Nov. 8.
- Fuse-plug. T. F. Cote. No. 1,381,803; June 14; v. 287; p. 332.
- Fuse-plug. A. F. Daum. No. 1,367,803; Feb. 8; v. 283; p. 239.
- Fuse-plug. R. S. Porter. No. 1,372,450; Mar. 22; v. 284; p. 680.
- Fuse-plug. G. B. Thomas. No. 1,385,285; July 19; v. 288; p. 549.
- Fuse-plug. J. W. Wulf. No. 1,373,696; Apr. 5; v. 285; p. 61.
- Fuse-plug, Key-operated. A. C. Recker. No. 1,387,906; Aug. 16; v. 289; p. 510.
- Fuse-plug, Magazine. H. H. Vincent and J. F. Skinner. No. 1,383,042; June 28; v. 287; p. 681.
- Fuse-plug, Refilling. H. Scheril. No. 1,372,981; Mar. 29; v. 284; p. 827.
- Fuse, Renewable. R. C. Cole. No. 1,400,660; Dec. 20.
- Fuse, Renewable. F. N. Conant. No. 1,394,917; Oct. 11.
- Fuse, Renewable. F. J. Fisher. No. 1,387,001; Aug. 9; v. 289; p. 278.
- Fuse, Renewable. M. Podell. No. 1,396,460; Nov. 8.
- Fuse, Renewable. L. W. Rosenthal and G. J. Lang. No. 1,378,135; May 17; v. 286; p. 445.
- Fuse, Renewable. L. W. Rosenthal and G. J. Lang. No. 1,378,136; May 17; v. 286; p. 445.
- Fuse, Renewable. L. W. Rosenthal and G. J. Lang. No. 1,378,380; May 17; v. 286; p. 491.
- Fuse-plug, Renewable. W. O. Smith. No. 1,365,798; Jan. 18; v. 282; p. 422.
- Fuse, Renewable cartridge-. F. J. Fisher. No. 1,387,000; Aug. 9; v. 289; p. 278.
- Fuse, Renewable electric. F. C. La Mar and P. J. Hopkins. No. 1,376,342; Apr. 26; v. 285; p. 706.
- Fuse, Renewable safety-. A. Peterson. No. 1,375,171; Apr. 19; v. 285; p. 450.
- Fuse, Safety-. A. L. Eustice. No. 1,400,480; Dec. 13.
- Fuse, Self-locking base-. E. R. Pillars and H. C. Leeseberg. No. 1,383,751; July 5; v. 288; p. 103.
- Fuse-sockets, Soldering device for. H. E. Van Ness. No. 1,390,315; Sept. 13; v. 290; p. 244.
- Fuse switch-box, Safety-. W. A. Heinrich and C. L. Matthews. No. 1,398,335; Nov. 29.
- Fuse-terminal-attaching means. A. L. Eustice. No. 1,393,102; Oct. 11.
- Fuse, Time-. F. A. Sutton. No. 1,385,759; July 26; v. 288; p. 723.
- Fuse-wire reel. L. Drake. No. 1,374,368; Apr. 12; v. 285; p. 232.
- Fuses, Delay-action mechanism for. J. H. Woodberry. No. 1,374,908; May 3; v. 286; p. 101.
- Fuses, Machine for packing. E. P. du Pont. No. 1,381,909; June 21; v. 287; p. 413.
- Fuses, Manufacturing drawn links for electric. S. W. Huff. No. 1,388,568; Aug. 23; v. 289; p. 697.
- Fuses, Tube for. J. G. Clemens. No. 1,396,357; Nov. 8.
- Fused cut-out. A. Herz. No. 1,380,556; June 7; v. 287; p. 44.
- Fuselage. A. Black. No. 1,393,488; Oct. 11.
- Fuselage. C. B. Kirkham and A. L. Thurston. No. 1,392,278; Sept. 27; v. 290; p. 776.
- Fuselage construction. C. F. Willard. No. 1,394,459; Oct. 18.
- Fusible adherent and making same. F. H. Davls. No. 1,374,492; Apr. 12; v. 285; p. 257.
- Fusible plug. J. B. Kilkenny. No. 1,384,471; July 12; v. 288; p. 300.
- Fusion process. H. H. Dow. No. 1,379,619; May 31; v. 286; p. 874.
- Gag, Throat and mouth. L. R. Forgrave. No. 1,388,421; Aug. 23; v. 289; p. 669.



## Alphabetical list of inventions—Continued.

Gage: See—

- Adjustable limit-gage. Oil-gage.  
Alarm track-gage. Outage-gage.  
Automatic gage. Piston-ring gage.  
Automatic-stop oil-gage. Plug-gage.  
Automatic tympan-gage. Precision-gage.  
Boiler-gage. Pressure-gage.  
Butter-fat gage. Pressure-relation gage.  
Button-blank gage. Printing-press gage.  
Clothometer-gage. Pressure-reducing gage.  
Combination-gage. Radiator water-gage.  
Compensating gage. Raker-gage.  
Countersink-gage. Recording-gage.  
Crosscut-saw gage. Reference-gage.  
Diameter-gage. Rivet-gage.  
Differential gage. Saw-gage.  
Electrical tank-gage. Saw-table gage.  
Fluid-gage. Screw-thread gage.  
Float-controlled oil-gage. Saw-tooth gage.  
Garment-gage. Sewer's gage.  
Gasolene-gage. Shaving-gage.  
Hair-cutting gage. Shingle-laying gage.  
Hem-gage. Spring-tension gage.  
Hinge-gage. Steam-gage.  
Indent hardness-gage. Taper and angle gage.  
Knife director and guide-gage. Thread-gage.  
Liner-trimming gage. Tire-gage.  
Limit-gage. Tire-pressure gage.  
Liquid-gage. Tool-sharpening gage.  
Liquid-level gage. Vernier surface-gage.  
Liquid supply tank gage. Water-gage.  
Micrometer-gage. Weather-board gage.  
Micrometer height-gage. Wheel-alinement gage.  
Micrometer taper gage.
- Gage. M. Bartholdy. No. 1,398,311; Nov. 29.  
Gage. R. G. Bloxson. No. 1,371,844; Mar. 15; v. 284; p. 508.  
Gage. H. B. Douglass. No. 1,390,432; Sept. 13; v. 290; p. 266.  
Gage. G. P. Gregory and H. MacKelvie. No. 1,389,246; Aug. 30; v. 289; p. 886.  
Gage. C. S. Lawson. No. 1,386,006; Aug. 2; v. 289; p. 8.  
Gage. F. R. McGowan. No. 1,380,818; June 7; v. 287; p. 95.  
Gage. R. T. Newton. No. 1,396,655; Nov. 8.  
Gage. A. Novick and E. Fish. No. 1,394,336; Oct. 18.  
Gage. H. C. Pelamorgue. No. 1,392,215; Sept. 27; v. 290; p. 763.  
Gage. C. M. Skofield. No. 1,401,000; Dec. 20.  
Gage. A. Storm. No. 1,368,072; Feb. 8; v. 283; p. 290.  
Gage. F. L. Walter. No. 1,364,534; Jan. 4; v. 282; p. 95.  
Gage. B. S. Williams. No. 1,377,238; May 10; v. 286; p. 220.  
Gage device. J. J. Fitzgerald. No. 1,397,275; Nov. 15.  
Gage-socket. E. B. Crocker. No. 1,376,860; May 3; v. 286; p. 92.  
Gage-adjusting tool. J. W. Gilliam. No. 1,387,383; Aug. 9; v. 289; p. 354.  
Gage-cases, Retaining device for. C. H. Graesser and E. B. Crocker. No. 1,398,373; Nov. 29.  
Gage-dials, Stop-pin for. E. B. Crocker. No. 1,374,438; Apr. 12; v. 285; p. 246.  
Gage-tube protector and illuminator. A. L. Wright. No. 1,401,574; Dec. 27.  
Gage and coupling, Combined. M. C. Schweinert and H. P. Kraft. No. 1,369,555; Feb. 22; v. 283; p. 665.  
Gage and guide for press-plates. E. R. Bradley. No. 1,385,169; July 19; v. 288; p. 527.  
Gage and level. H. M. Smith. No. 1,373,982; Apr. 5; v. 285; p. 118.  
Gage and marker, Combined. E. B. Fry. No. 1,394,992; Oct. 25.  
Gage for making printing equipment. E. E. Novotny. No. 1,387,802; Aug. 16; v. 289; p. 490.  
Gage and micrometer, Center-. C. Snell. No. 1,365,289; Jan. 11; v. 282; p. 284.  
Gage and pump connection. H. P. Kraft. No. 1,374,578; Apr. 12; v. 285; p. 274.  
Gagger, Molder's. J. W. Bradley. No. 1,368,689; Feb. 15; v. 283; p. 459.  
Gages, Apparatus for setting. L. Rouanet. No. 1,379,878; May 31; v. 286; p. 922.  
Gages, Attachment for differential and static pressure. H. P. Westcott. No. 1,385,234; July 19; v. 288; p. 540.  
Gagging appliance. W. G. Wilson. No. 1,398,616; Nov. 29.  
Gaging and assorting taper pieces, Method of and apparatus for. G. L. Miller. No. 1,367,199; Feb. 1; v. 283; p. 63.  
Gaging-blocks, Adjustable stop member for. J. Ditson. No. 1,376,409; May 3; v. 286; p. 6.  
Gaging device. I. Fine. No. 1,369,275; Feb. 22; v. 283; p. 611.  
Galalith, celluloid, &c., Producing imitations of. H. Steiner. No. 1,396,075; Nov. 8.  
Galley device. A. D. Avery. No. 1,380,516; June 7; v. 287; p. 36.  
Galley end lock. J. G. Zim. No. 1,400,650; Dec. 20.  
Galley-lock. J. R. Jones. No. 1,366,663; Jan. 25; v. 282; p. 636.  
Galley side-stick. J. G. Zim. No. 1,384,373; July 12; v. 288; p. 280.  
Galvanic battery. H. N. Cox. No. 1,390,765; Sept. 13; v. 290; p. 834.  
Galvanic battery with unalterable electrolyte. Primary. E. W. Jungner. No. 1,370,119; Mar. 1; v. 284; p. 68.  
Galvanized articles, Apparatus for removing excess spelter from hot. C. G. Ericson. No. 1,390,990; Sept. 20; v. 290; p. 442.  
Galvanizing-machine. C. G. Miller. No. 1,378,888; May 24; v. 286; p. 681.  
Galvanizing or otherwise coating articles, Apparatus for. C. J. Lane. No. 1,392,509; Oct. 4.  
Gambrel. C. S. McClung. No. 1,373,823; Apr. 5; v. 285; p. 86.  
Game. J. B. Aley. No. 1,395,545; Nov. 1.  
Game. F. H. Anderson. No. 1,395,786; Nov. 1.  
Game. E. Auffurth, Jr., and E. Hjerke. No. 1,386,594; Aug. 9; v. 289; p. 195.  
Game. T. H. Bamforth. No. 1,388,505; Aug. 23; v. 289; p. 685.  
Game. E. G. Bradbury. No. 1,381,164; June 14; v. 287; p. 213.  
Game. J. Carter. No. 1,398,837; Nov. 29.  
Game. J. P. Coughlin. No. 1,370,786; Mar. 8; v. 284; p. 242.  
Game. V. Dickerson. No. 1,373,312; Mar. 29; v. 284; p. 892.  
Game. N. D. Dillon. No. 1,373,998; Apr. 5; v. 285; p. 121.  
Game. I. W. Doremus. No. 1,383,640; July 5; v. 288; p. 73.  
Game. R. Eliaser. No. 1,391,306; Sept. 20; v. 290; p. 506.  
Game. W. Fegteborg. No. 1,395,634; Nov. 1.  
Game. J. L. Flatow. No. 1,374,844; Apr. 12; v. 285; p. 324.  
Game. P. J. Ford. No. 1,378,018; May 17; v. 286; p. 422.  
Game. G. R. and F. S. Frisbee. No. 1,383,794; July 5; v. 288; p. 112.  
Game. C. E. Gidlof. No. 1,378,854; May 24; v. 286; p. 655.  
Game. H. W. Gillette. No. 1,385,677; July 26; v. 288; p. 707.  
Game. H. C. Jensen. No. 1,373,247; Mar. 29; v. 284; p. 879.  
Game. J. Johnson. No. 1,399,864; Dec. 13.  
Game. H. Kaufman. No. 1,381,563; June 14; v. 287; p. 287.  
Game. G. A. Kelley. No. 1,395,643; Nov. 1.  
Game. H. H. Kinsman and W. M. Gaylor. No. 1,381,472; June 14; v. 287; p. 269.  
Game. L. Laval. No. 1,380,0154; May 31; v. 286; p. 975.  
Game. E. L. Loeser. No. 1,399,133; Dec. 6.  
Game. W. F. McManus. No. 1,391,333; Sept. 20; v. 290; p. 512.  
Game. C. B. Mullins, Jr. No. 1,379,711; May 31; v. 286; p. 891.  
Game. S. Nelson. No. 1,365,944; Jan. 18; v. 282; p. 451.  
Game. J. H. Neville. No. 1,372,770; Mar. 29; v. 284; p. 783.  
Game. O. J. St. Pierre. No. 1,396,073; Nov. 8.  
Game. A. S. Precinauskas. No. 1,373,448; Apr. 5; v. 285; p. 13.  
Game. C. J. Pfeil. No. 1,388,599; Aug. 23; v. 289; p. 703.  
Game. W. F. Root. No. 1,388,666; Aug. 23; v. 289; p. 716.  
Game. J. Rutherford, Jr., and T. F. Baker. No. 1,387,946; Aug. 16; v. 289; p. 517.  
Game. T. Sacane. No. 1,400,461; Dec. 13.  
Game. T. H. and G. L. Schror. No. 1,375,262; Apr. 19; v. 285; p. 467.  
Game. R. W. Seibold. No. 1,392,662; Oct. 4.  
Game. C. B. and A. P. Silkworth. No. 1,373,679; Apr. 5; v. 285; p. 58.  
Game. D. L. Sterling. No. 1,365,561; Jan. 11; v. 282; p. 336.  
Game. F. Taufer. No. 1,392,979; Oct. 11.  
Game. F. Tenney. No. 1,393,408; Oct. 11.  
Game. J. R. Velasco. No. 1,370,171; Mar. 1; v. 284; p. 79.  
Game. H. S. Vogel. No. 1,396,795; Nov. 15.  
Game. M. Waterstrout. No. 1,372,211; Mar. 22; v. 284; p. 635.  
Game. G. A. Wiggins. No. 1,380,450; June 7; v. 287; p. 24.  
Game. D. T. Wilbur. No. 1,371,285; Mar. 15; v. 284; p. 399.  
Game. F. E. Wortmann. No. 1,370,773; Mar. 8; v. 284; p. 239.  
Game accessory, Card-. J. Kolomyjec. No. 1,366,264; Jan. 18; v. 282; p. 513.  
Game and educational apparatus, Combined card. G. S. Swan. No. 1,392,977; Oct. 11.  
Game and educational device, Combined. F. Gotsche. No. 1,376,199; Apr. 26; v. 285; p. 678.  
Game apparatus. H. Adams. No. 1,368,875; Feb. 15; v. 283; p. 495.  
Game apparatus. H. A. Beerbaum. No. 1,396,396; Nov. 8.  
Game apparatus. W. E. Blackburn. No. 1,390,270; Sept. 13; v. 290; p. 235.



- Game apparatus. G. H. Bugenhagen. No. 1,400,520; Dec. 20.
- Game apparatus. G. Le F. Buys. No. 1,370,682; Mar. 8; v. 284; p. 222.
- Game apparatus. T. E. Cooper. No. 1,381,452; June 14; v. 287; p. 266.
- Game apparatus. J. P. Coughlin. No. 1,369,084; Feb. 22; v. 283; p. 574.
- Game apparatus. A. O. Coulliard. No. 1,387,241; Aug. 9; v. 289; p. 324.
- Game apparatus. H. Dratschke. No. 1,374,991; Apr. 19; v. 285; p. 414.
- Game apparatus. W. P. Dunn and J. W. Beresford. No. 1,372,873; Mar. 29; v. 284; p. 805.
- Game apparatus. C. W. Hamel. No. 1,376,874; May 3; v. 286; p. 91.
- Game apparatus. T. A. Y. Hodgson. No. 1,366,181; Jan. 18; v. 282; p. 496.
- Game apparatus. L. D. Hudon. No. 1,367,261; Feb. 1; v. 283; p. 76.
- Game apparatus. G. Kehl. No. 1,388,265; Aug. 23; v. 289; p. 637.
- Game apparatus. H. E. Kettle. No. 1,368,401; Feb. 15; v. 283; p. 401.
- Game apparatus. R. W. Lellis and E. W. Adams. No. 1,386,517; Aug. 2; v. 289; p. 108.
- Game apparatus. H. Loewenbach. No. 1,392,586; Oct. 4.
- Game apparatus. J. H. Maguire. No. 1,369,039; Feb. 22; v. 283; p. 565.
- Game apparatus. R. A. G. McCoy. No. 1,382,435; June 21; v. 287; p. 512.
- Game apparatus. P. J. McGrath and J. W. Hallowell. No. 1,372,712; Mar. 29; v. 284; p. 772.
- Game apparatus. J. W. McLeod. No. 1,365,712; Jan. 18; v. 282; p. 405.
- Game apparatus. C. S. McMahan. No. 1,383,736; July 5; v. 288; p. 100.
- Game apparatus. D. W. O'Brien. No. 1,370,148; Mar. 1; v. 284; p. 74.
- Game apparatus. M. E. Pester, F. C. Porter, and W. G. Hoffman. No. 1,370,479; Mar. 1; v. 284; p. 187.
- Game apparatus. B. Sando. No. 1,384,857; July 19; v. 288; p. 462.
- Game apparatus. J. F. Schultheiss. No. 1,379,218; May 24; v. 286; p. 724.
- Game apparatus. M. M. Smith. No. 1,377,936; May 10; v. 286; p. 355.
- Game apparatus. C. W. Van Vleet. No. 1,382,695; June 28; v. 287; p. 615.
- Game apparatus. W. L. White. No. 1,381,045; June 7; v. 287; p. 139.
- Game apparatus. W. J. Wood and W. G. Sand. No. 1,389,611; Sept. 6; v. 290; p. 10.
- Game apparatus. W. H. Workman. No. 1,371,831; Mar. 15; v. 284; p. 505.
- Game apparatus. G. A. Wraith. No. 1,387,577; Aug. 16; v. 289; p. 444.
- Game apparatus, Ball. W. G. Jackson. No. 1,394,308; Oct. 18.
- Game apparatus, Ball-dispensing device for. H. C. Granis. No. 1,395,705; Nov. 1.
- Game apparatus, Baseball. A. Weinberg and C. V. Linderman. No. 1,396,798; Nov. 15.
- Game apparatus, Indicating mechanism for. W. E. Blackburn. No. 1,377,869; May 10; v. 286; p. 342.
- Game apparatus, Projectile-throwing device for. C. W. Van Vleet. No. 1,382,696; June 28; v. 287; p. 615.
- Game, Baseball. N. I. Sheehan. No. 1,394,764; Oct. 25.
- Game, Baseball. F. F. Schauer. No. 1,384,095; July 12; v. 288; p. 222.
- Game-board. L. Boyd. No. 1,383,185; June 28; v. 287; p. 708.
- Game board. R. W. Cassell. No. 1,368,021; Feb. 8; v. 283; p. 280.
- Game-board. R. M. Griebel. No. 1,370,017; Mar. 1; v. 284; p. 50.
- Game-board. T. R. Harlow. No. 1,396,425; Nov. 8.
- Game-board. J. Keckeis. No. 1,378,175; May 17; v. 286; p. 452.
- Game-board. A. G. E. Lowman. No. 1,364,290; Jan. 4; v. 282; p. 48.
- Game-board. D. L. Sterling. No. 1,384,280; July 12; v. 288; p. 261.
- Game-board attachment. J. J. Quinn. No. 1,377,364; May 10; v. 286; p. 245.
- Game, Card. P. J. Ebert. No. 1,377,327; May 10; v. 286; p. 238.
- Game, Card. R. F. Parks. No. 1,392,351; Oct. 4.
- Game, Card. N. R. Strout. No. 1,399,823; Dec. 13.
- Game, Card. J. W. Smiley. No. 1,401,001; Dec. 20.
- Game, Card. D. L. Vaughan. No. 1,290,659; Sept. 13; v. 290; p. 314.
- Game device. T. W. Hanrath. No. 1,398,511; Nov. 29.
- Game device. C. T. Stewart. No. 1,399,818; Dec. 13.
- Game device. G. R. Strong. No. 1,365,863; Jan. 18; v. 282; p. 435.
- Game device. C. V. Torrey. No. 1,364,657; Jan. 4; v. 282; p. 117.
- Game device. F. C. Westphal. No. 1,401,844; Dec. 27.
- Game, Educational. C. P. Reed. No. 1,389,162; Aug. 30; v. 289; p. 869.
- Game, Mechanical baseball. G. E. Brown. No. 1,400,020; Dec. 13.
- Game of tiptop. E. B. Harrington. No. 1,364,632; Jan. 4; v. 282; p. 113.
- Game or toy. L. K. Restein. No. 1,385,642; July 26; v. 288; p. 699.
- Game-playing device. L. E. Brady. No. 1,367,585; Feb. 8; v. 283; p. 197.
- Game, Racing. M. Higuchi. No. 1,392,764; Oct. 4.
- Game-scoring device. W. H. Edwards. No. 1,386,996; Aug. 9; v. 289; p. 277.
- Game, Table. W. Miller. No. 1,371,704; Mar. 15; v. 284; p. 482.
- Game-trap. J. O'Neil. No. 1,390,214; Sept. 6; v. 290; p. 131.
- Game, Word card. F. C. Smith. No. 1,399,811; Dec. 13.
- Games and for physical culture, Apparatus for playing. A. L. Hurlstone-Jones. No. 1,372,351; Mar. 22; v. 284; p. 662.
- Games and other purposes, Frame for. S. Brown. No. 1,394,140; Oct. 18.
- Games, Goal for athletic. D. M. Lillibridge. No. 1,387,418; Aug. 9; v. 289; p. 361.
- Games, Shuttlecock device for use in. F. Tenney. No. 1,393,407; Oct. 11.
- Gap-closing machine. N. A. Nelsen. No. 1,399,981; Dec. 13.
- Garage-floor. A. L. Olson. No. 1,378,483; May 17; v. 286; p. 511.
- Garbage-box. F. and S. Frank. No. 1,380,011; May 31; v. 286; p. 947.
- Garage-heater. S. E. Maxwell. No. 1,372,713; Mar. 29; v. 284; p. 772.
- Garage-shop motor-cranking machine. M. B. Walker and G. A. Martin. No. 1,366,614; Jan. 25; v. 282; p. 626.
- Garage structure. G. A. Shaul. No. 1,372,095; Mar. 22; v. 284; p. 612.
- Garages and other uses, Heater for. O. J. Kuenhold. No. 1,392,016; Sept. 27; v. 290; p. 724.
- Garages, &c., Automobile-handling device for. C. J. Warren. No. 1,392,610; Oct. 4.
- Garages, &c., Heater for. W. K. Mason. No. 1,370,471; Mar. 1; v. 284; p. 136.
- Garbage-can. I. Levy. No. 1,401,090; Dec. 20.
- Garbage-can. J. E. Trotter. No. 1,397,260; Nov. 15.
- Garbage, Process and apparatus for degreasing. F. Danks. No. 1,386,165; Aug. 2; v. 289; p. 40.
- Garbage-receptacle. J. Sokolowski. No. 1,365,558; Jan. 11; v. 282; p. 336.
- Garbage-receptacle. J. P. Urban. No. 1,371,007; Mar. 8; v. 284; p. 283.
- Garden-seat and producing same. L. F. Liebhardt. No. 1,383,410; July 5; v. 288; p. 32.
- Garden-sprinkler. A. Lemke. No. 1,368,269; Feb. 15; v. 283; p. 376.
- Garment. L. E. Alleigh. No. 1,396,616; Nov. 8.
- Garment. A. C. Berry. No. 1,382,461; June 21; v. 287; p. 517.
- Garment. O. E. Forsyth. No. 1,365,904; Jan. 18; v. 282; p. 443.
- Garment. K. Heitler. No. 1,366,335; Jan. 18; v. 282; p. 527.
- Garment. W. S. Herron and F. W. Thomas. No. 1,378,863; May 24; v. 286; p. 657.
- Garment. M. M. Hershey. No. 1,398,720; Nov. 29.
- Garment. A. A. Jackson. No. 1,389,664; Sept. 6; v. 290; p. 21.
- Garment. J. K. McComb. No. 1,367,666; Feb. 8; v. 283; p. 213.
- Garment. E. Poyer. No. 1,380,589; June 7; v. 287; p. 50.
- Garment. M. Pugatsky and R. D. Von Rentsch. No. 1,396,462; Nov. 8.
- Garment. A. F. Secrest. No. 1,383,491; July 5; v. 288; p. 48.
- Garment. G. G. Thompson. No. 1,399,825; Dec. 13.
- Garment. C. M. Walker. No. 1,364,663; Jan. 4; v. 282; p. 119.
- Garment and stay therefor. C. Munter. No. 1,376,219; Apr. 26; v. 285; p. 682.
- Garment-belt structure. S. Feinstein. No. 1,385,533; July 26; v. 288; p. 676.
- Garment, Children's. E. M. Blank. No. 1,365,653; Jan. 18; v. 282; p. 393.
- Garment, Child's. L. Jaslow. No. 1,395,115; Oct. 25.
- Garment, Child's and lady's. A. C. Berry. No. 1,369,761; Feb. 22; v. 283; p. 706.
- Garment, Child's sleeping. L. G. Milkes. No. 1,393,900; Oct. 18.
- Garment-collar. L. Muscovitz. No. 1,367,493; Feb. 1; v. 283; p. 122.
- Garment, Combination. S. Paull. No. 1,387,937; Aug. 16; v. 289; p. 516.
- Garment, Convertible. I. Wheeler. No. 1,399,593; Dec. 6.
- Garment, Electrothermal. J. E. Craddock. No. 1,394,810; Oct. 25.
- Garment-fastener. M. Anderson. No. 1,386,592; Aug. 9; v. 289; p. 195.
- Garment-fastener. J. D. Ellison. No. 1,365,670; Jan. 18; v. 282; p. 396.
- Garment-fastener. F. C. Hoffman. No. 1,381,417; June 14; v. 287; p. 260.
- Garment-fastener. S. Jasgur. No. 1,369,437; Feb. 22; v. 283; p. 437.



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- Garment-fastener. F. D. Martin. No. 1,368,818; Feb. 15; v. 283; p. 483.  
 Garment-fastener. B. A. Shammo. No. 1,368,846; Feb. 15; v. 283; p. 489.  
 Garment-fastener. F. D. La Valle. No. 1,383,129; June 28; v. 287; p. 697.  
 Garment-fastener. E. J. F. Weig. No. 1,384,685; July 12; v. 288; p. 346.  
 Garment-fastener, Flexible. M. W. Earnshaw. No. 1,389,131; Aug. 30; v. 289; p. 863.  
 Garment-former. C. H. Boyuls. No. 1,392,907; Oct. 11.  
 Garment-gage. H. W. Rosvall. No. 1,380,418; June 7; v. 287; p. 18.  
 Garment-hanger. P. S. Emerson. No. 1,399,707; Dec. 6.  
 Garment-hanger. M. F. Fulford. No. 1,386,775; Aug. 9; v. 289; p. 232.  
 Garment-hanger. T. Kaufer. No. 1,367,662; Feb. 8; v. 283; p. 212.  
 Garment-hanger. T. Kaufer. No. 1,389,310; Aug. 30; v. 289; p. 899.  
 Garment-hanger. T. Kaufer. No. 1,400,220; Dec. 13.  
 Garment-hanger. C. M. Langhorne. No. 1,369,287; Feb. 22; v. 283; p. 613.  
 Garment-hanger. M. Lichter. No. 1,367,062; Feb. 1; v. 283; p. 36.  
 Garment-hanger. H. Meszaros. No. 1,395,287; Nov. 1.  
 Garment-hanger. K. Montgomery. No. 1,386,015; Aug. 2; v. 289; p. 10.  
 Garment-hanger. J. R. Morton. No. 1,374,024; Apr. 5; v. 285; p. 126.  
 Garment-hanger. M. Rosenthal. No. 1,368,843; Feb. 15; v. 283; p. 488.  
 Garment-hanger. W. C. Shelly. No. 1,377,443; May 10; v. 286; p. 260.  
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 Garment-hanger. A. Tannenbaum. No. 1,381,439; June 14; v. 287; p. 264.  
 Garment-hanger, Adjustable. T. Kaufer. No. 1,389,309; Aug. 30; v. 289; p. 899.  
 Garment-hanger, Collapsible. R. B. Heinle. No. 1,385,449; July 26; v. 288; p. 659.  
 Garment-hanger supporter or the like. C. E. Pardridge. No. 1,364,638; Jan. 4; v. 282; p. 114.  
 Garment-hanger with check-controlled and coin-operated means. O. W. Ahlgren. No. 1,371,213; Mar. 15; v. 284; p. 385.  
 Garment-hangers, Adapters for. E. H. Porter. No. 1,364,519; Jan. 4; v. 282; p. 92.  
 Garment-hangers, Means for supporting. J. A. Launder. No. 1,390,144; Sept. 6; v. 290; p. 118.  
 Garment-holder. D. W. York. No. 1,397,670; Nov. 22.  
 Garment-holder, Folding. E. D. Harper. No. 1,399,115; Dec. 6.  
 Garment holder or hanger. J. H. Smith. No. 1,393,843; Oct. 18.  
 Garment, House-. M. B. Crank. No. 1,379,902; May 31; v. 286; p. 926.  
 Garment, Infant's. S. W. Laing. No. 1,397,381; Nov. 15.  
 Garment, Infants'. V. D. Ohrenstein. No. 1,394,213; Oct. 18.  
 Garment, Knit-. W. L. Siewers. No. 1,374,155; Apr. 5; v. 285; p. 150.  
 Garment, Lady's. M. and M. V. Hertz. No. 1,371,307; Mar. 15; v. 284; p. 403.  
 Garment-leg supporter. H. K. White. No. 1,401,220; Dec. 27.  
 Garment, Lock-. S. F. Swantees. No. 1,380,605; June 7; v. 287; p. 53.  
 Garment material. E. V. C. Weyand. No. 1,374,970; Apr. 19; v. 285; p. 411.  
 Garment, Maternity-. A. Prokesch. No. 1,372,977; Mar. 29; v. 284; p. 826.  
 Garment, One-piece. A. K. O'Brien. No. 1,364,855; Jan. 4; v. 282; p. 155.  
 Garment-pattern. F. Hutter. No. 1,387,723; Aug. 16; v. 289; p. 474.  
 Garment-pattern. F. H. Pollock. No. 1,372,189; Mar. 22; v. 284; p. 630.  
 Garment-pocket. C. E. Bennett. No. 1,387,342; Aug. 9; v. 289; p. 346.  
 Garment-press. W. E. André. No. 1,368,684; Feb. 15; v. 283; p. 458.  
 Garment-press. W. E. André. No. 1,379,601; May 24; v. 286; p. 796.  
 Garment-press. H. E. Chase. No. 1,395,667; Nov. 1.  
 Garment-press. J. G. Johnson. No. 1,397,635; Nov. 22.  
 Garment-press. C. E. Waream. No. 1,392,375; Oct. 4.  
 Garment press and steaming mechanism. D. H. Benjamin and G. N. Link. No. 1,392,289; Oct. 4.  
 Garment-presser. E. A. Herr. No. 1,382,726; June 28; v. 287; p. 621.  
 Garment-presses, Pressure attachment for. C. E. Waream and C. L. Braley. No. 1,386,665; Aug. 9; v. 289; p. 210.  
 Garment-presses, Tandem attachment for. W. E. André. No. 1,398,827; Nov. 29.  
 Garment-pressing machine. R. H. Melzer. No. 1,400,088; Dec. 13.  
 Garment-protector. C. J. Keppel. No. 1,391,112; Sept. 20; v. 290; p. 469.  
 Garment-protector. G. K. Guinzburg. No. 1,397,579; Nov. 22.  
 Garment-seam. B. H. Goldstein. No. 1,384,609; July 12; v. 288; p. 330.  
 Garment, Sleeping-. F. Ehrenberg. No. 1,370,009; Mar. 1; v. 284; p. 49.  
 Garment-stand, Adjustable. H. N. Roetter. No. 1,372,456; Mar. 22; v. 284; p. 681.  
 Garment-support, Waist-line. C. Bascome. No. 1,383,062; June 28; v. 287; p. 685.  
 Garment-supporter. J. H. Burt. No. 1,378,656; May 17; v. 286; p. 544.  
 Garment-supporter. J. N. and C. A. Faust. No. 1,392,314; Oct. 4.  
 Garment-supporter. C. L. Feltman. No. 1,394,720; Oct. 25.  
 Garment-supporter. E. F. Goodman. No. 1,364,746; Jan. 4; v. 282; p. 135.  
 Garment-supporter. P. Grabler. No. 1,368,335; Feb. 15; v. 283; p. 389.  
 Garment-supporter. G. Hake. No. 1,368,626; Feb. 15; v. 283; p. 446.  
 Garment-supporter. J. H. L'Heureux. No. 1,394,316; Oct. 18.  
 Garment-supporter. A. H. Holmes. No. 1,389,304; Aug. 30; v. 289; p. 898.  
 Garment-supporter. J. B. Hucle. No. 1,374,204; Apr. 12; v. 285; p. 201.  
 Garment-supporter. M. Krompigel. No. 1,383,642; July 5; v. 288; p. 79.  
 Garment-supporter. E. D. Milks. No. 1,364,784; Jan. 4; v. 282; p. 142.  
 Garment-supporter. J. F. Smiley. No. 1,368,461; Feb. 15; v. 283; p. 414.  
 Garment-supporter. J. R. Smith. No. 1,387,912; Aug. 16; v. 289; p. 511.  
 Garment-supporter. M. Starmer. No. 1,375,118; Apr. 19; v. 285; p. 440.  
 Garment-supporter. M. Starmer. No. 1,383,165; June 28; v. 287; p. 704.  
 Garment-supporter. M. Starmer. No. 1,389,226; Aug. 30; v. 289; p. 882.  
 Garment-supporter. M. Starmer. No. 1,392,237; Sept. 27; v. 290; p. 768.  
 Garment-supporters. Cushioned button for. H. A. Keller. No. 1,366,388; Jan. 25; v. 282; p. 580.  
 Garment, Supporting-. J. N. and C. A. Faust. No. 1,384,440; July 12; v. 288; p. 295.  
 Garment-supporting belt. O. C. Thompson. No. 1,380,608; June 7; v. 287; p. 54.  
 Garment, Swimming-. S. R. Smith. No. 1,365,067; Jan. 11; v. 282; p. 240.  
 Garment, Union-. B. Custer. No. 1,392,303; Oct. 4.  
 Garment, Union. L. T. Dwyer. No. 1,381,066; June 7; v. 287; p. 143.  
 Garment, Union-. T. W. Hook. No. 1,368,800; Feb. 15; v. 283; p. 480.  
 Garment, Union. J. Rifkin. No. 1,386,950; Aug. 9; v. 289; p. 268.  
 Garments and like articles, Apparatus for displaying. A. W. Taylor. No. 1,393,327; Oct. 11.  
 Garments and other articles, Support for. C. E. Thayer. No. 1,365,354; Jan. 11; v. 282; p. 296.  
 Garments, Fastener strip or fly for. L. Rosenman. No. 1,373,452; Apr. 5; v. 285; p. 14.  
 Garments, Lining for. F. Rowley. No. 1,393,975; Oct. 18.  
 Garments, Suspending device for. H. Z. Nabers. No. 1,365,056; Jan. 11; v. 282; p. 238.  
 Garment, Ventilated. A. Waterman. No. 1,381,373; June 14; v. 287; p. 351.  
 Garment-weight. M. L. Cooper. No. 1,388,802; Aug. 23; v. 289; p. 743.  
 Garments, Shaping and seaming. J. Berger. No. 1,386,680; Aug. 9; v. 289; p. 213.  
 Garments, Weighting for. J. W. Schloss. No. 1,365,731; Jan. 18; v. 282; p. 409.  
 Garnet or like wire to rollers or cylindrical surfaces, Means for applying. J. Dronsfield. No. 1,398,716; Nov. 29.  
 Garnett machine. W. F. Bokum and H. V. Coulston. No. 1,401,863; Dec. 27.  
 Garter. W. Ferguson. No. 1,373,123; Mar. 29; v. 284; p. 854.  
 Garter. J. C. Haslam. No. 1,367,778; Feb. 8; v. 283; p. 234.  
 Garter. J. A. Hewes. No. 1,367,474; Feb. 1; v. 283; p. 118.  
 Garter. W. H. Johnson. No. 1,386,935; Aug. 9; v. 289; p. 265.  
 Garter. E. Landgraf, geb. Cartharius. No. 1,395,192; Oct. 25.  
 Garter. G. H. Luneburg. No. 1,387,058; Aug. 9; v. 289; p. 290.  
 Garter. R. A. Manny and J. A. Rielly. No. 1,377,903; May 10; v. 286; p. 349.  
 Garter. R. W. Merritt. No. 1,397,106; Nov. 15.  
 Garter. H. E. Penn. No. 1,381,658; June 14; v. 287; p. 305.  
 Garter. G. Rottman. No. 1,364,888; Jan. 11; v. 282; p. 206.



- Garter. W. H. Smith. No. 1,379,787; May 31; v. 286; p. 905.  
 Garter. E. Sprague, Jr. No. 1,366,708; Jan. 25; v. 282; p. 645.  
 Garter. S. W. Stern. No. 1,370,066; Mar. 1; v. 284; p. 69.  
 Garter. L. G. Warren. No. 1,382,446; June 21; v. 287; p. 514.  
 Garter-clasp. W. E. Bowen. No. 1,375,770; Apr. 26; v. 285; p. 595.  
 Garter-clasp. A. S. Johnson. (Reissue.) No. 1,516,4; July 26; v. 288; p. 766.  
 Garter-clasp. A. S. Johnson. No. 1,368,558; Feb. 15; v. 283; p. 433.  
 Garter-support. J. Stern. No. 1,375,188; Apr. 19; v. 285; p. 453.  
 Garter and supporter. Hygienic. M. E. Dell. No. 1,391,100; Sept. 20; v. 290; p. 464.  
 Garter, Man's. M. B. Hammond and H. H. Taylor. No. 1,396,423; Nov. 8.  
 Garters, Wrist-bracelets, &c., Clasp for. A. G. Planchenault. (Reissue.) No. 15,020; Jan. 4; v. 282; p. 157.  
 Gas analyzers, Means for temperature equalization in. C. W. Heath. No. 1,366,382; Jan. 25; v. 282; p. 579.  
 Gas-analyzing apparatus. O. Rodhe. No. 1,373,264; Mar. 29; v. 284; p. 882.  
 Gas-analyzing apparatus. O. Rodhe. No. 1,380,160; May 31; v. 286; p. 976.  
 Gas-analyzing apparatus. O. Rodhe. No. 1,385,150; July 19; v. 288; p. 523.  
 Gas analysis, Apparatus and process for. E. K. Rideal and H. S. Taylor. No. 1,375,933; Apr. 26; v. 285; p. 627.  
 Gas-analysis apparatus. W. L. De Baufre. No. 1,384,603; July 12; v. 288; p. 329.  
 Gas and air mixer. G. F. Jackson. No. 1,382,363; June 21; v. 287; p. 497.  
 Gas and air mixer. C. Niedergang, F. P. Stenger, and T. J. Frey. No. 1,367,201; Feb. 1; v. 283; p. 63.  
 Gas and air mixing device. C. H. Werlin. No. 1,397,473; Nov. 15.  
 Gas and coal stove, Combined. A. A. Specht. No. 1,385,726; July 26; v. 288; p. 716.  
 Gas and cyanids, Manufacture of. R. Franchot. No. 1,364,838; Jan. 4; v. 282; p. 152.  
 Gas and like regulator, Automatic. E. Turner. No. 1,375,265; Apr. 19; v. 285; p. 468.  
 Gas and liquid separator. H. R. Leland. No. 1,372,240; Mar. 22; v. 284; p. 641.  
 Gas and manufacturing same, Material for purifying. J. E. Hutchinson. No. 1,370,495; Mar. 1; v. 284; p. 140.  
 Gas and oil, Burner for. C. P. Vallely. No. 1,394,377; Oct. 18.  
 Gas and oil vending device. H. B. McRee. No. 1,375,526; Apr. 19; v. 285; p. 518.  
 Gas and steam-power engine, Combination. G. W. F. Boyd. No. 1,364,696; Jan. 4; v. 282; p. 125.  
 Gas and water, Adjustable shut-off box for. L. G. Haase. No. 1,370,207; Mar. 1; v. 287; p. 85.  
 Gas, Apparatus for analyzing. O. Rodhe. No. 1,374,391; Apr. 12; v. 285; p. 287.  
 Gas, Apparatus for making. W. D. Wilcox. No. 1,386,825; Aug. 9; v. 289; p. 243.  
 Gas, Apparatus for the manufacture of. J. E. Christopher. No. 1,367,512; Feb. 1; v. 283; p. 125.  
 Gas, Apparatus for washing. W. H. Geesman. No. 1,388,812; Aug. 23; v. 289; p. 745.  
 Gas-burner. W. L. Brooks. No. 1,371,144; Mar. 8; v. 284; p. 309.  
 Gas-burner. H. A. Bubb. No. 1,397,077; Nov. 15.  
 Gas-burner. G. W. and C. H. Budde. No. 1,367,296; Feb. 1; v. 283; p. 82.  
 Gas-burner. J. P. Butts. No. 1,384,598; July 12; v. 288; p. 328.  
 Gas-burner. V. Z. Caracristi. No. 1,400,024; Dec. 13.  
 Gas-burner. H. C. Caldwell. No. 1,387,450; Aug. 16; v. 289; p. 418.  
 Gas-burner. O. O. Caleff. No. 1,381,539; June 14; v. 287; p. 282.  
 Gas-burner. W. T. Clark. No. 1,397,501; Nov. 22.  
 Gas-burner. E. Cole. No. 1,368,120; Feb. 8; v. 283; p. 299.  
 Gas-burner. E. E. Cornwell and J. H. McCready. No. 1,382,894; June 28; v. 287; p. 653.  
 Gas-burner. J. Festa. No. 1,394,721; Oct. 25.  
 Gas-burner. E. H. Fisher. No. 1,364,094; Jan. 4; v. 282; p. 9.  
 Gas-burner. A. H. Humphrey. No. 1,396,210; Nov. 8.  
 Gas-burner. H. R. Humphrey. No. 1,396,211; Nov. 8.  
 Gas-burner. A. H. and G. A. Humphrey. No. 1,388,433; Aug. 23; v. 289; p. 672.  
 Gas-burner. D. P. Judson. No. 1,391,062; Sept. 20; v. 290; p. 457.  
 Gas-burner. I. M. Justice. No. 1,367,704; Feb. 8; v. 283; p. 220.  
 Gas-burner. I. G. Marquette. No. 1,397,977; Nov. 22.  
 Gas-burner. J. Miller. No. 1,383,741; July 5; v. 288; p. 101.  
 Gas-burner. A. C. Moork. No. 1,380,004; May 31; v. 286; p. 946.  
 Gas-burner. A. B. Sharp. No. 1,388,609; Aug. 23; v. 289; p. 705.  
 Gas-burner. G. E. Sharpe. No. 1,398,470; Nov. 29.  
 Gas-burner. M. C. and E. H. Shuler. No. 1,376,836; May 3; v. 286; p. 87.  
 Gas-burner. D. W. Staten. No. 1,368,067; Feb. 8; v. 283; p. 289.  
 Gas-burner. A. F. Thompson. No. 1,381,030; June 7; v. 287; p. 136.  
 Gas-burner. J. L. Vance. No. 1,385,509; July 26; v. 288; p. 672.  
 Gas-burner. A. H. Wolff. No. 1,399,178; Dec. 6.  
 Gas burner and heater, Combined. L. Bloom. No. 1,400,719; Dec. 20.  
 Gas-burner-attaching means. J. H. Bacon. No. 1,387,827; Aug. 16; v. 289; p. 495.  
 Gas-burner attachment. J. R. Flick. No. 1,395,404; Nov. 1.  
 Gas-burner attachment. W. E. Wright. No. 1,376,241; Apr. 26; v. 285; p. 686.  
 Gas-burner, Closed high-temperature. D. Guelbaum. No. 1,388,460; Aug. 23; v. 289; p. 677.  
 Gas-burner holder. J. A. Klahre and H. F. A. Kleinschmidt. No. 1,372,145; Mar. 22; v. 284; p. 622.  
 Gas burner, Hydrocarbon-. J. R. Bates. No. 1,387,549; Aug. 16; v. 289; p. 419.  
 Gas-burner, Incandescent. W. G. Robey. No. 1,388,002; Aug. 16; v. 289; p. 528.  
 Gas-burner injector. F. and H. T. Thorp. No. 1,387,565; Aug. 16; v. 289; p. 442.  
 Gas-burner, Surface-combination. M. Mathy. No. 1,388,357; Aug. 23; v. 289; p. 656.  
 Gas-burners, Controller for. F. W. Wolf. No. 1,385,513; July 26; v. 288; p. 673.  
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 Gas, Condenser or absorber for hydrofluosilicic acid. K. F. Stahl. No. 1,367,993; Feb. 8; v. 283; p. 275.  
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 Gas-engine. W. E. Deisch. No. 1,376,800; May 3; v. 286; p. 79.  
 Gas-engine. S. Lawson. No. 1,367,320; Feb. 1; v. 283; p. 87.  
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 Gas-engine manifold. J. W. Stirton. No. 1,373,459; Apr. 5; v. 285; p. 15.  
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- Gas-generator. M. Boisen. No. 1,401,035; Dec. 20.
- Gas-generator. C. F. Colmar. No. 1,372,280; Mar. 22; v. 284; p. 649.
- Gas-generator. J. W. Lee. No. 1,389,670; Sept. 6; v. 290; p. 22.
- Gas-generator. F. Turner and T. Burton. No. 1,365,570; Jan. 11; v. 282; p. 338.
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- Gas-generators, Cozy for portable. D. C. and R. C. Duncan. No. 1,395,485; Nov. 1.
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- Gas, Process and apparatus for the manufacture of liquid sulfurous acid from dilute sulfurous-acid. P. Pascal. No. 1,398,791; Nov. 29.
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- Gas-producer. A. H. Lynn, L. A. Riley 2d, and N. E. Rambush. No. 1,380,993; June 7; v. 287; p. 129.
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- Gas-producers, Fuel feeding and distributing device for. H. Nielsen and F. D. Marshall. No. 1,376,567; May 3; v. 286; p. 35.
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- Gas-saver, Blue-flame. J. E. Ryan. No. 1,364,813; Jan. 4; v. 282; p. 148.
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- Gas service-pipe. J. W. Wampler. No. 1,393,987; Oct. 18.
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- Gas-tank alarm. W. E. Beyer. No. 1,376,386; Apr. 26; v. 285; p. 713.
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- Gas-tanks, Filling engine. H. J. Weiershauser. No. 1,393,861; Oct. 18.
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- Gas-washing apparatus. H. Nielsen and F. D. Marshall. No. 1,378,716; May 17; v. 286; p. 55.
- Gas-wells, Device and process for automatically removing water from. F. B. Aldredge. No. 1,377,171; May 10; v. 286; p. 207.
- Gas-wells, Shut-off for. F. W. Hunter. No. 1,377,966; May 10; v. 286; p. 361.
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- Gases and method therefor, Apparatus for silencing and exhausting. C. L. Stokes. No. 1,382,690; June 28; v. 287; p. 614.
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- Gases, Apparatus for treating liquids with. W. E. Greenawalt. No. 1,374,446; Apr. 12; v. 285; p. 248.
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- Gases, Absorption apparatus for analyzing. P. R. Boulton. No. 1,390,488; Sept. 13; v. 290; p. 278.
- Gases, Apparatus and process for purifying. C. J. Ramsburg. No. 1,389,980; Sept. 6; v. 290; p. 85.
- Gases, Apparatus for burning. A. N. Diehl and F. E. Leahy. No. 1,392,921; Oct. 11.
- Gases, Apparatus for the electrical treatment of. H. J. Kennard. No. 1,394,771; Oct. 25.
- Gases, Apparatus for the electrical treatment of. L. Bradley. No. 1,400,795; Dec. 20.
- Gases, Apparatus for cleaning. A. G. McKee. No. 1,398,598; Nov. 29.
- Gases, Apparatus for determining the amount of certain constituents in. E. H. De Lany and S. H. Payne. No. 1,395,560; Nov. 1.
- Gases, Diffusing and disseminating poisonous. J. W. Van Meter. No. 1,401,292; Dec. 27.
- Gases, Electric fixation of. G. T. Southgate. No. 1,369,714; Feb. 22; v. 283; p. 696.
- Gases, Electric fixation of. G. T. Southgate. No. 1,373,639; Apr. 5; v. 285; p. 50.
- Gases, Electric furnace for treating. B. Thomas. No. 1,367,842; Feb. 8; v. 283; p. 247.
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- Gases from hot water, Device for separating. H. Wehner. No. 1,399,592; Dec. 6.
- Gases from liquids, Extracting. F. S. Vincent. No. 1,398,658; Nov. 29.
- Gases from water, Apparatus for removing. J. J. Wilson. No. 1,387,748; Aug. 16; v. 289; p. 479.
- Gases in high furnaces, Apparatus for the combustion of poisonous. J. Voegeli. No. 1,371,827; Mar. 15; v. 284; p. 505.
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- Gases, Process and apparatus for mixing. F. A. Stamps. No. 1,378,429; May 17; v. 286; p. 500.
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- Gases, Purifying. D. L. Jacobson. No. 1,390,037; Sept. 6; v. 290; p. 97.
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- Gases, Removing solids suspended in or carried by. F. C. Roberts. No. 1,401,735; Dec. 27.
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- Gases which have been absorbed by solids, Recovering. J. S. Morgan. No. 1,398,882; Nov. 29.
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- Gaseous mixtures, Dissipating heat in process of extracting vapors from. G. A. Burrell, C. L. Voress, and V. C. Canter. No. 1,382,889; June 28; v. 287; p. 652.
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- Gaseous phase, Treating material in the. C. S. Davis. No. 1,369,788; Mar. 1; v. 284; p. 7.
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- Gasifier. W. M. Sublette. No. 1,397,063; Nov. 15.
- Gasket, Hose-coupling. E. N. Roth. No. 1,393,316; Oct. 11.
- Gasket. J. Holle. No. 1,387,648; Aug. 16; v. 289; p. 458.
- Gasket. J. B. Victor. No. 1,398,612; Nov. 29.
- Gasket, Electric vaporizing-. W. Kutsche. No. 1,387,276; Aug. 9; v. 289; p. 331.
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- Gaskets, Machine for the manufacture of asbestos. E. Nall. No. 1,374,463; Apr. 12; v. 285; p. 251.
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- Gasolene-dispensing apparatus. H. Durham. No. 1,365,160; Jan. 11; v. 282; p. 259.
- Gasolene-dispensing apparatus. A. J. McGehee. No. 1,383,137; June 28; v. 287; p. 699.
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- Gasolene-gage. J. Wilhelm. No. 1,391,813; Sept. 27; v. 290; p. 681.
- Gasolene-heater. W. A. La Belle. No. 1,366,916; Feb. 1; v. 283; p. 7.
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- Gasolene, Manufacture of. G. H. Taber, Jr. No. 1,390,472; Sept. 13; v. 290; p. 274.
- Gasolene, Process and apparatus for treating petroleum-oils to produce. R. Yates. No. 1,395,075; Oct. 25.
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- Gasolene-purifier. W. R. Harris. No. 1,364,435; Jan. 4; v. 282; p. 76.
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- Gasolene service-tank. A. J. McGehee. No. 1,374,020; Apr. 5; v. 285; p. 125.
- Gasolene service-tank. A. J. McGehee. No. 1,383,135; June 28; v. 287; p. 699.
- Gasolene service-tank. A. J. McGehee. No. 1,383,136; June 28; v. 287; p. 699.
- Gasolene-tank. S. Shishman. No. 1,382,863; June 28; v. 287; p. 647.
- Gasolene-tank, Anti-explosive and non-inflammable. H. C. Ericsson. No. 1,381,175; June 14; v. 287; p. 216.
- Gasolene-tank indicator. J. B. Faulkner. No. 1,372,222; Mar. 22; v. 284; p. 637.
- Gasolene-tank, Reserve. W. J. Cowan. No. 1,366,247; Jan. 18; v. 282; p. 510.
- Gasolene substitute, Making. C. Ellis. No. 1,396,999; Nov. 15.
- Gasolene-tanks, Dashboard-gage for. W. D. Ohaver. No. 1,388,151; Aug. 16; v. 289; p. 557.
- Gasolene-tanks, Filter for. H. A. Hills. No. 1,394,011; Oct. 18.
- Gasolene-tanks, Low-supply alarm for. E. K. McKissick. No. 1,395,132; Oct. 25.
- Gasolene-testing device. W. Fell. No. 1,396,565; Nov. 8.
- Gasolene-valve lock. S. Sarma. No. 1,391,345; Sept. 20; v. 290; p. 514.
- Gate. See—
- |                          |                           |
|--------------------------|---------------------------|
| Antifreeze head-gate.    | Hinge-gate.               |
| Automatic crossing-gate. | Railway-crossing gate.    |
| Bin-gate.                | Railway-gate.             |
| Blast-gate.              | Sanitary can-gate.        |
| Crossing-gate.           | Self-latching gate.       |
| Electrical signal-gate.  | Sliding gate.             |
| End-gate.                | Time-controlled dam-gate. |
| Farm-gate.               | Turbine-gate.             |
| Flood-gate.              | Wagon end-gate.           |
| Folding gate.            |                           |
- Gate. H. V. Calkins. No. 1,364,981; Jan. 11; v. 282; p. 224.



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- Gate. F. W. Ewald and H. G. Thomson. No. 1,394,479; Oct. 18.
- Gate. F. A. Garcia. No. 1,365,165; Jan. 11; v. 282; p. 260.
- Gate. W. F. Gatewood. No. 1,379,094; May 24; v. 286; p. 700.
- Gate. G. N. Givens. No. 1,370,534; Mar. 8; v. 284; p. 193.
- Gate. B. F. Goehenour. No. 1,379,621; May 31; v. 286; p. 874.
- Gate. R. H. Hearn. No. 1,370,689; Mar. 8; v. 284; p. 223.
- Gate. B. J. Johnson. No. 1,364,934; Jan. 11; v. 282; p. 215.
- Gate. A. Lamont. No. 1,366,086; Jan. 18; v. 282; p. 478.
- Gate. F. B. Leasman. No. 1,365,179; Jan. 11; v. 282; p. 262.
- Gate. E. Lipska. No. 1,398,870; Nov. 29.
- Gate. D. M. McCauley. No. 1,377,901; May 10; v. 286; p. 348.
- Gate. A. V. Rowe. No. 1,388,375; Aug. 23; v. 289; p. 660.
- Gate. F. O. Sawin. No. 1,368,844; Feb. 15; v. 283; p. 489.
- Gate. O. Stolp. No. 1,367,928; Feb. 8; v. 283; p. 263.
- Gate. W. B. Trueman. No. 1,374,785; Apr. 12; v. 285; p. 313.
- Gate-adjuster. G. W. and C. E. Coss. No. 1,367,373; Feb. 1; v. 283; p. 98.
- Gate and chute, End-. J. C. Stephens. No. 1,384,713; July 12; v. 288; p. 352.
- Gate and door. Automatically-operated. G. W. Brown. No. 1,390,015; Sept. 6; v. 290; p. 92.
- Gate and door operating mechanism. M. C. Oster. No. 1,380,077; May 31; v. 286; p. 960.
- Gate and hinge-latch therefor. C. Reed. No. 1,381,335; June 14; v. 287; p. 244.
- Gate and latch. W. T. Pyle. No. 1,369,300; Feb. 22; v. 283; p. 615.
- Gate construction, Farm-. J. T. Lynn. No. 1,373,011; Mar. 29; v. 284; p. 833.
- Gate-controlling and marker-tripping mechanism, Automatic. L. A. Cogswell. No. 1,366,889; Jan. 25; v. 282; p. 681.
- Gate device. E. B. Thurston. No. 1,399,905; Dec. 13.
- Gate-engine. G. B. Varnum. No. 1,367,931; Feb. 8; v. 283; p. 263.
- Gate-fastener. W. F. Glandt. No. 1,392,934; Oct. 11.
- Gate-fastener. J. R. Powel. No. 1,391,578; Sept. 20; v. 290; p. 562.
- Gate-fastener. C. Schmele. No. 1,397,459; Nov. 15.
- Gate - fastening device, End-. W. H. Dillet. No. 1,389,819; Sept. 6; v. 290; p. 52.
- Gate-hinge. J. W. Coombs. No. 1,374,437; Apr. 12; v. 285; p. 246.
- Gate-latch. R. T. Grimes. No. 1,383,103; June 28; v. 287; p. 693.
- Gate lock and latch, Farm-. A. G. Gardner. No. 1,369,737; Feb. 22; v. 283; p. 701.
- Gate lock or fastener, Bull-pen-. R. A. Hughes. No. 1,387,401; Aug. 9; v. 289; p. 358.
- Gate opener and closer. A. G. Clark. No. 1,386,991; Aug. 9; v. 289; p. 276.
- Gate-operating machine, End-. G. Akers. No. 1,394,521; Oct. 25.
- Gate - operating mechanism. E. Christenson. No. 1,391,095; Sept. 20; v. 290; p. 463.
- Gate-operating mechanism. J. Lind. No. 1,382,369; June 21; v. 287; p. 499.
- Gate-operating mechanism. G. S. Thurston. No. 1,367,843; Feb. 8; v. 283; p. 247.
- Gate-valve. J. J. Leach. No. 1,365,254; Jan. 11; v. 282; p. 277.
- Gates, &c., Apparatus for operating. L. V. Homan. No. 1,386,112; Aug. 2; v. 289; p. 30.
- Gates. Barb-wire attachment for. A. V. Rowe. No. 1,380,928; June 7; v. 287; p. 116.
- Gates. Control for automatic crossing-. J. Briggs. No. 1,367,684; Feb. 8; v. 283; p. 216.
- Gates. Dead-lock for end drop-. C. C. Breakfield. No. 1,395,629; Nov. 1.
- Gates, doors &c., Automatic mechanism for operating. G. Merz. No. 1,378,183; May 17; v. 286; p. 454.
- Gates. Latching means for flexible. C. B. Baumgartner. No. 1,388,017; Aug. 16; v. 289; p. 531.
- Gates. Operating device for automatic. T. E. Lightfoot. No. 1,369,895; Mar. 1; v. 284; p. 27.
- Gathering device, Fruit-. C. M. Hurd. No. 1,366,001; Jan. 18; v. 282; p. 462.
- Gear. A. Sundh. No. 1,367,170; Feb. 1; v. 283; p. 57.
- Gear, Airplane landing-. H. Kleckler. No. 1,370,693; Mar. 8; v. 284; p. 224.
- Gear and disengaging-coupling, Variable-speed. W. J. Gee. No. 1,372,069; Mar. 22; v. 284; p. 608.
- Gear and key puller. T. W. Allen. No. 1,388,839; Aug. 30; v. 289; p. 805.
- Gear and pulley attachment, Self-tightening. M. R. Casey. No. 1,393,261; Oct. 11.
- Gear, Apparatus for investigating an electrical gyroscopic firing-. A. von Appen. No. 1,398,828; Nov. 29.
- Gear-box. H. Bogaty. No. 1,398,171; Nov. 22.
- Gear casing, Friction-. J. F. O'Connor. No. 1,372,716; Mar. 29; v. 284; p. 773.
- Gear, Change-. R. Jennett. No. 1,375,846; Apr. 26; v. 285; p. 610.
- Gear, Change-speed. W. E. Marx. No. 1,399,139; Dec. 6.
- Gear, Change-speed. G. von Zweigbergk. No. 1,384,504; July 12; v. 288; p. 307.
- Gear, Changeable-speed. H. W. Warren. No. 1,395,067; Oct. 25.
- Gear clutch, Magnetic reversing and speed-varying. E. J. Murphy. No. 1,394,932; Oct. 25.
- Gear, Combined driving and steering. C. E. Stahl. No. 1,388,669; Aug. 23; v. 289; p. 716.
- Gear control and auto-lock, Combination. E. B. Morris. No. 1,389,966; Sept. 6; v. 290; p. 82.
- Gear-cutter. W. T. Sears. No. 1,392,361; Oct. 4.
- Gear-cutters, Making. W. C. Farnum. No. 1,383,707; July 5; v. 288; p. 93.
- Gear-cutting machine. J. E. L. Blackmore. No. 1,376,600; May 3; v. 286; p. 42.
- Gear-cutting machine. E. W. Bullock and G. H. Bryan. No. 1,385,200; July 19; v. 288; p. 533.
- Gear-cutting machine. C. E. Derr. No. 1,372,340; Mar. 22; v. 284; p. 660.
- Gear-cutting machine. L. J. Evans. No. 1,384,558; July 12; v. 288; p. 319.
- Gear-cutting machine. W. C. Farnum. No. 1,373,956; Apr. 5; v. 285; p. 113.
- Gear-cutting machine. W. C. Farnum. No. 1,373,957; Apr. 5; v. 285; p. 113.
- Gear-cutting machine. R. E. Garrett. No. 1,397,372; Nov. 15.
- Gear-cutting machine. F. Ljungström. No. 1,374,460; Apr. 12; v. 285; p. 251.
- Gear-cutting machine. W. C. M. Matterson. No. 1,373,344; Mar. 29; v. 284; p. 899.
- Gear-cutting machine. A. L. Stewart, E. W. Bullock, and S. H. Earl. No. 1,380,937; June 7; v. 287; p. 117.
- Gear-cutting machine. M. Tibbetts. No. 1,398,477; Nov. 29.
- Gear-cutting machine. B. F. Waterman. No. 1,364,597; Jan. 4; v. 282; p. 106.
- Gear-cutting machines, Brace for. E. W. Bullock, S. H. Earl, and G. H. Bryan. No. 1,373,407; Apr. 5; v. 285; p. 5.
- Gear-cutting machines, Tool mechanism for. A. L. Stewart, E. W. Bullock, and S. H. Earl. No. 1,378,629; May 17; v. 286; p. 539.
- Gear, Differential. E. de H. Caldwell. No. 1,399,002; Dec. 6.
- Gear, Differential. F. W. Davis. No. 1,389,580; Sept. 6; v. 290; p. 4.
- Gear, Differential. B. M. Gaston. No. 1,371,361; Mar. 15; v. 284; p. 414.
- Gear, Draft-. H. E. Van Dorn. No. 1,380,443; June 7; v. 287; p. 23.
- Gear drive, Worm-. G. F. Eckart. No. 1,397,317; Nov. 15.
- Gear, Driving-. J. O. Junghans. No. 1,367,782; Feb. 8; v. 283; p. 235.
- Gear, Engine stop-. D. Cockburn and D. MacNicol. No. 1,401,239; Dec. 27.
- Gear, Equalizing-. E. J. Gould. No. 1,372,656; Mar. 22; v. 284; p. 720.
- Gear, Forged shrouded. H. N. Anderson. No. 1,377,176; May 10; v. 286; p. 208.
- Gear, Friction-. B. S. Johnson. No. 1,372,698; Mar. 29; v. 284; p. 769.
- Gear, Friction-. H. A. Roemer. No. 1,387,909; Aug. 16; v. 289; p. 510.
- Gear, Friction ratchet-. G. E. Cassel. No. 1,377,559; May 10; v. 286; p. 281.
- Gear-grinding machine. D. E. Ross. No. 1,366,284; Jan. 18; v. 282; p. 517.
- Gear, Hydraulic steering-. H. B. Crum. No. 1,375,678; Apr. 26; v. 285; p. 579.
- Gear in motorcycles and gear-case therefor, Arrangement or grouping of the parts of the transmission-. F. Amiot. No. 1,378,309; May 17; v. 286; p. 478.
- Gear, Landing-. W. H. Barling. No. 1,385,770; July 26; v. 288; p. 725.
- Gear, Lifting or hauling. J. H. Walker. No. 1,398,756; Nov. 29.
- Gear-making machine. H. J. Schmick. No. 1,385,097; July 19; v. 288; p. 512.
- Gear mechanism, Short-turning-. T. Sandstrom. No. 1,377,096; May 3; v. 286; p. 136.
- Gear, Planetary driving-. M. C. Horine. No. 1,392,567; Oct. 4.
- Gear-planing machine. A. L. Stewart and E. C. Head. No. 1,394,586; Oct. 25.
- Gear providing automatic compensation for variations in the speed and power transmitted, Transmission-. K. T. Spencer and L. G. Wills. No. 1,384,357; July 12; v. 288; p. 277.
- Gear-puller. J. H. Staley. No. 1,381,142; June 14; v. 287; p. 210.
- Gear-puller. A. R. Wickersham. No. 1,394,129; Oct. 18.
- Gear-puller attachment. C. P. Beach. No. 1,394,963; Oct. 25.
- Gear, Reduction-. E. C. Hatcher and T. Rooke. No. 1,384,662; July 12; v. 288; p. 342.
- Gear-reduction mechanism. W. C. Farnum. No. 1,383,706; July 5; v. 288; p. 93.
- Gear-release. C. H. Kloor. No. 1,388,651; Aug. 23; v. 289; p. 713.



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- Gear, Resilient. G. Fast. No. 1,399,549; Dec. 6.  
 Gear, Resilient transmission-. J. M. Waugh. No. 1,382,698; June 28; v. 287; p. 616.  
 Gear, Reversing-. J. F. Wollesen. No. 1,394,131; Oct. 18.  
 Gear, Running-. G. W. Wacker. No. 1,377,948; May 10; v. 286; p. 357.  
 Gear, Self-lubricating. J. R. McClain. No. 1,401,622; Dec. 27.  
 Gear-shift. R. F. Forkner and J. P. Dehaven. No. 1,379,753; May 31; v. 286; p. 898.  
 Gear-shift and ignition lock. J. H. Imhoff. No. 1,378,033; May 17; v. 286; p. 425.  
 Gear-shift-lever lock. C. L. Johnson. No. 1,369,925; Mar. 1; v. 284; p. 33.  
 Gear-shift-lever lock. C. L. Johnson. (Reissue.) No. 1,510,5; May 17; v. 286; p. 578.  
 Gear-shift-lever lock. C. L. Johnson. No. 1,394,258; Oct. 18.  
 Gear-shift levers, Lock for. O. Nelson. No. 1,364,578; Jan. 4; v. 282; p. 102.  
 Gear-shift levers, Lock for. J. H. Shaw. No. 1,370,371; Mar. 1; v. 284; p. 116.  
 Gear-shift levers, Lock for. J. H. Shaw. No. 1,374,169; Apr. 5; v. 285; p. 153.  
 Gear-shift lock. T. Rose. No. 1,394,357; Oct. 18.  
 Gear-shift-locking device. H. Ford. No. 1,377,331; May 10; v. 286; p. 239.  
 Gear-shifter. E. C. Hicks. No. 1,392,159; Sept. 27; v. 290; p. 752.  
 Gear-shifting appliance. B. E. Richardson. No. 1,371,644; Mar. 15; v. 284; p. 470.  
 Gear-shifting device. J. Valent. No. 1,380,874; June 7; v. 287; p. 106.  
 Gear - shifting device, Automatic. J. Kirkeby. No. 1,391,193; Sept. 20; v. 290; p. 483.  
 Gear-shifting mechanism. H. Budd. No. 1,370,947; Mar. 8; v. 284; p. 271.  
 Gear-shifting mechanism. L. B. Horr. No. 1,389,195; Aug. 30; v. 289; p. 876.  
 Gear-shifting mechanism. B. A. Walrath. No. 1,371,531; Mar. 15; v. 284; p. 449.  
 Gear-slotting machine. O. Schaerer. No. 1,392,226; Sept. 27; v. 290; p. 765.  
 Gear, Steam-engine reversing-. O. W. Young. No. 1,364,910; Jan. 11; v. 282; p. 210.  
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 Gear system, Driving-. W. F. Penrod. No. 1,384,483; July 12; v. 288; p. 303.  
 Gear system, Transmitting-. W. F. Penrod. No. 1,384,482; July 12; v. 288; p. 303.  
 Gear-teeth, Art of and apparatus for forming. H. J. Schmick. No. 1,384,542; July 12; v. 288; p. 316.  
 Gear-teeth, Forming. C. A. Parsons and S. S. Cook. No. 1,401,550; Dec. 27.  
 Gear-testing machine. J. L. Matthews. No. 1,394,324; Oct. 18.  
 Gear-testing mechanism. O. C. Kayle. No. 1,395,582; Nov. 1.  
 Gear, Toothed. T. F. Butzen. No. 1,386,089; Aug. 2; v. 289; p. 26.  
 Gear, Transmission-. C. Bearens. No. 1,379,512; May 24; v. 286; p. 779.  
 Gear, Transmission-. C. Bearens. No. 1,398,763; Nov. 29.  
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 Gear, Variable-speed. F. Ahond. No. 1,370,080; Mar. 1; v. 284; p. 62.  
 Gear, Vehicle running-. W. Conway. No. 1,392,118; Sept. 27; v. 290; p. 744.  
 Gear-wheel. M. Fossati. No. 1,390,198; Sept. 6; v. 290; p. 128.  
 Gear-wheel. R. Marlow. No. 1,394,751; Oct. 25.  
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 Gear-wheel. E. H. Wingqvist. No. 1,390,414; Sept. 13; v. 290; p. 263.  
 Gear-wheel, Resilient. A. Roth and A. Romang. No. 1,385,796; July 26; v. 288; p. 730.  
 Gear-wheel, Sectional. W. B. Conyngham. No. 1,391,719; Sept. 27; v. 290; p. 663.  
 Gear-wheels, Apparatus for cutting toothed. R. L. J. Delamare. No. 1,401,323; Dec. 27.  
 Gear-wheels, Apparatus for testing. J. Wilkinson. No. 1,374,698; Apr. 12; v. 285; p. 296.  
 Gear-wheels, Machine for cutting. E. H. Wingqvist. No. 1,370,573; Mar. 8; v. 284; p. 200.  
 Gear wheels, Manufacturing bevel-. E. H. Wingqvist. No. 1,365,433; Jan. 11; v. 282; p. 311.  
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 Gears, Apparatus for operating the sliding wheels of change-speed. A. Aichele. No. 1,379,891; May 31; v. 286; p. 924.  
 Gears, Attachment for cutting teeth of bevel-. W. C. Farnum. No. 1,373,958; Apr. 5; v. 285; p. 113.  
 Gears, Cutter for generating skew-bevel. C. G. Olson. No. 1,398,039; Nov. 22.  
 Gears, Hob for cutting involute. C. G. Olson. No. 1,383,844; July 5; v. 288; p. 122.  
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 Gears, Housing for truck driving-. R. A. Whittingham. No. 1,400,119; Dec. 13.  
 Gears, Making. H. N. Anderson. No. 1,377,177; May 10; v. 286; p. 208.  
 Gears, Production of. R. D. Babson. No. 1,371,214; Mar. 15; v. 284; p. 385.  
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 Gearing. J. L. Ward. No. 1,401,659; Dec. 27.  
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 Gearing, Bicycle propulsion-. G. H. W. Doose. No. 1,388,102; Aug. 16; v. 289; p. 548.  
 Gearing, Change-speed. A. H. Asprooth. No. 1,365,217; Jan. 11; v. 282; p. 269.  
 Gearing, Change-speed. A. H. Asprooth. No. 1,389,287; Aug. 30; v. 289; p. 894.  
 Gearing, Change-speed. A. H. Asprooth and A. M. Leonl. No. 1,385,105; July 19; v. 288; p. 514.  
 Gearing, Change-speed. F. Beemer. No. 1,373,547; Apr. 5; v. 285; p. 33.  
 Gearing, Change-speed. L. Herman and F. J. Karg. No. 1,392,157; Sept. 27; v. 290; p. 751.  
 Gearing, Change-speed. E. Reeve. No. 1,365,195; Jan. 11; v. 282; p. 265.  
 Gearing, Change-speed. J. B. Rowe and A. G. Barratt. No. 1,400,317; Dec. 13.  
 Gearing, Change-speed and reversing. W. B. Oriel. No. 1,401,636; Dec. 27.  
 Gearing, Differential. J. C. Bogart. No. 1,372,993; Mar. 29; v. 284; p. 829.  
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 Gearing, Differential. C. H. Logue and D. D. Ormsby. No. 1,396,225; Nov. 8.  
 Gearing, Differential. B. E. Richardson. No. 1,390,641; Sept. 13; v. 290; p. 310.  
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 Gearing, Electric change-speed. T. Von Zweigbergk. No. 1,369,148; Feb. 22; v. 283; p. 587.  
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 Gearing, Intermediate belt-. O. Leinbrock. No. 1,394,100; Oct. 18.



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- Gearing, Multiplying-. E. C. Head. No. 1,390,905; Sept. 13; v. 290; p. 362.
- Gearing, Planetary. J. S. Barnett. No. 1,376,915; May 3; v. 286; p. 102.
- Gearing, Quick-return pump-head. B. P. Faltin. No. 1,398,684; Nov. 29.
- Gearing, Reduction-. C. B. Kirkham. No. 1,392,276; Sept. 27; v. 290; p. 775.
- Gearing, Reversing-. T. J. Hughes. No. 1,384,388; July 12; v. 288; p. 283.
- Gearing, Reversing-. H. A. Tuttle. Nos. 1,392,982-6; Oct. 11.
- Gearing, Reversing device for toothed. F. Ljungstrom, I. Broberg, and E. O. Eriksson. No. 1,388,351; Aug. 23; v. 289; p. 655.
- Gearing, Speed-reduction. M. Lissman. No. 1,376,954; May 3; v. 286; p. 110.
- Gearing, Toothed. L. Jones. No. 1,383,402; July 5; v. 288; p. 60.
- Gearing, Toothed. M. Maag. No. 1,396,338; Nov. 8.
- Gearing, Transmission. R. Y. Bovee. No. 1,368,476; Feb. 15; v. 283; p. 417.
- Gearing, Transmission. H. G. Blumberg. No. 1,368,882; Feb. 15; v. 283; p. 496.
- Gearing, Transmission-. W. S. Cunningham. No. 1,380,192; May 31; v. 286; p. 981.
- Gearing, Transmission-. R. D. George. No. 1,391,314; Sept. 20; v. 290; p. 508.
- Gearing, Transmission-. C. E. Mills. No. 1,397,442; Nov. 15.
- Gearing, Transmission-. J. Powell. No. 1,396,526; Nov. 8.
- Gearing, Transmission-. C. R. Scott. No. 1,380,599; June 7; v. 287; p. 52.
- Gearing, Transmission-. L. B. Sperry. No. 1,378,490; May 17; v. 286; p. 512.
- Gearing, Transmission-. F. G. Thomas. No. 1,382,572; June 21; v. 287; p. 538.
- Gearing, Variable. J. W. Fisher. No. 1,390,522; Sept. 13; v. 290; p. 285.
- Gearing, Variable-speed. C. B. Chicken and G. Scott. No. 1,398,417; Nov. 29.
- Gearing, Variable-speed. W. H. Himes. No. 1,384,758; July 19; v. 288; p. 441.
- Gearing, Variable-speed-transmission. J. B. Foote. No. 1,382,278; June 21; v. 287; p. 481.
- Gearing, Variable velocity-ratio. E. J. de Normanville. No. 1,383,988; July 5; v. 288; p. 151.
- Gearing, Worm-. H. A. Rippe. No. 1,381,337; June 14; v. 287; p. 244.
- Gearing, Yieldable. H. J. Murray and W. S. Rugg. No. 1,390,538; Sept. 13; v. 290; p. 288.
- Gearless differential. A. F. Ford. No. 1,365,586; Jan. 11; v. 282; p. 341.
- Gelatin tubes for medicinal purposes. Preparing. S. Ikeda. No. 1,390,788; Sept. 13; v. 290; p. 339.
- Gelatinous compositions for use in the reproduction of line documents. Manufacturer of. F. Dorel. No. 1,386,995; Aug. 9; v. 289; p. 277.
- Gem-mounting. T. M. Perrin. No. 1,383,146; June 28; v. 287; p. 701.
- Generating system. C. White. No. 1,374,266; Apr. 12; v. 285; p. 212.
- Generator. *See*—
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| Acetylene-generator.                  | High-frequency generator.                  |
| Acetylene-gas and pressure generator. | Hot-air generator.                         |
| Arc radio-oscillation generator.      | Ignition-generator.                        |
| Dynamo-electric generator.            | Ozone-generator.                           |
| Electric gas-generator.               | Power-generator.                           |
| Electric steam-generator.             | Pressure-generator.                        |
| Electrolytic gas-generator.           | Sound-generator.                           |
| Flashlight-generator.                 | Steam-generator.                           |
| Gas-generator.                        | Suction gas-generator.                     |
| Headlight-glass.                      | Vapor-generator.                           |
| Heat-generator.                       | Variable-speed constant-voltage generator. |
- Generator. A. G. Kaufman. No. 1,370,591; Mar. 8; v. 284; p. 204.
- Generator. D. W. McLean. No. 1,385,257; July 19; v. 288; p. 544.
- Generator and burner. Gas. G. L. N. Johnson. No. 1,373,616; Apr. 5; v. 285; p. 46.
- Generator and burner. Oil-gas. R. N. Morphis. No. 1,365,938; Jan. 18; v. 282; p. 450.
- Generator for hydrocarbon-burners. J. O. King. No. 1,385,557; July 26; v. 288; p. 682.
- Generator-mounting. W. L. Bliss. Nos. 1,398,830-31; Nov. 29.
- Generator suspension. D. N. Balderston. No. 1,397,122; Nov. 15.
- Generator suspension. T. L. Mount. No. 1,381,329; June 14; v. 287; p. 243.
- Generator, Unit. W. F. Clark. No. 1,375,365; Apr. 19; v. 285; p. 487.
- Generators. System of control of single-phase commutator. R. E. Hellmund. No. 1,385,997; Aug. 2; v. 289; p. 7.
- Generators. Tensioning device for axle-driven. C. H. Quinn. No. 1,376,902; May 3; v. 286; p. 100.
- Generators. Thermostatic control for steam-. C. Fries and H. W. Fisher. No. 1,384,995; July 19; v. 288; p. 491.
- Geometrical tool. J. H. Roberts. No. 1,393,970; Oct. 18.
- Germicide. C. A. Weeks. No. 1,366,106; Jan. 18; v. 282; p. 482.
- Germinator. J. G. Rodger. No. 1,380,253; May 31; v. 286; p. 993.
- Gib-adjuster. M. E. Tibbels. No. 1,398,610; Nov. 29.
- Gill-drawing frames. Top screw for. W. Hildsworth. No. 1,394,829; Oct. 25.
- Gin-breasts. Lift for. C. R. P. Pool. No. 1,380,677; June 7; v. 287; p. 67.
- Gin-cleaner. L. S. Pope. No. 1,390,639; Sept. 13; v. 290; p. 309.
- Girder. W. S. Hutchinson. No. 1,369,340; Feb. 22; v. 283; p. 623.
- Girdle. A. B. Beck. Nos. 1,401,860-1; Dec. 27.
- Girth, Reinforcing-. J. W. Leslie. No. 1,399,063; Dec. 6.
- Glandular extractive product. Manufacturing. A. M. Clover. No. 1,373,551; Apr. 5; v. 285; p. 34.
- Glare-reflector. E. C. Lytle. No. 1,399,356; Dec. 6.
- Glare-stop. J. R. Van Amber. No. 1,399,673; Dec. 6.
- Glass. *See*—
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| Drawing sheet-glass. | Machinery for rolling glass. |
| Sand-glass.          |                              |
- Glass. A. Mitrovich. No. 1,393,235; Oct. 11.
- Glass. M. A. Smith. No. 1,365,797; Jan. 18; v. 282; p. 422.
- Glass and apparatus therefor. Casting plate-. J. W. Kunzler. No. 1,396,330; Nov. 8.
- Glass and making same. Frosted. C. F. Lorenz. No. 1,386,880; Aug. 9; v. 289; p. 254.
- Glass and other plane-surface articles. Apparatus for lifting and transporting. G. H. L. Debaecker. No. 1,373,997; Apr. 5; v. 285; p. 121.
- Glass-annealing furnace. Electric. O. A. Colby. No. 1,401,674; Dec. 27.
- Glass. Apparatus for drawing sheet-. T. S. Owens. No. 1,386,724; Aug. 9; v. 289; p. 222.
- Glass. Apparatus for grinding and polishing plate-. F. E. Slocumbe. No. 1,384,278; July 12; v. 288; p. 261.
- Glass. Apparatus for grinding or polishing plate-. F. B. Waldron. No. 1,370,246; Mar. 1; v. 284; p. 93.
- Glass. Apparatus for manipulating hot. R. La France. No. 1,390,448; Sept. 13; v. 290; p. 269.
- Glass. Apparatus for sawing. W. Taylor. No. 1,385,731; July 26; v. 288; p. 717.
- Glass. Apparatus to be employed in the manufacture of hollow articles of. A. Ferguson. No. 1,371,085; Mar. 8; v. 284; p. 298.
- Glass articles. Manufacture of. R. F. Hall. No. 1,393,118; Oct. 11.
- Glass articles. Method and apparatus for making. C. R. Lott. No. 1,382,994; June 28; v. 287; p. 672.
- Glass articles. Ornamenting. J. A. Milliken. No. 1,396,691; Nov. 8.
- Glass. Automatic machine for blowing. E. Lecoultrre. No. 1,401,713; Dec. 27.
- Glass bottles. Machine for making. C. F. Cox. No. 1,385,428; July 26; v. 288; p. 654.
- Glass bottles. Machine for the automatic and continuous manufacture of. G. O. Tague. No. 1,373,272; Mar. 29; v. 284; p. 884.
- Glass-casting table. W. J. Golightly. No. 1,366,786; Jan. 25; v. 282; p. 661.
- Glass chemical ware. A. Mond. No. 1,399,394; Dec. 6.
- Glass composition and making same. F. E. Fisher. No. 1,394,296; Oct. 18.
- Glass construction unit. F. L. Keppler. No. 1,386,409; Aug. 2; v. 289; p. 88.
- Glass-conveying apparatus. K. E. Peiler. No. 1,379,593; May 24; v. 286; p. 794.
- Glass-cutter. O. B. Gerdin. No. 1,375,958; Apr. 26; v. 285; p. 632.
- Glass-cutting apparatus. W. Taylor. No. 1,385,732; July 26; v. 288; p. 718.
- Glass cylinders. Apparatus for drawing. A. E. Spinasse. No. 1,386,441; Aug. 2; v. 289; p. 93.
- Glass-delivering apparatus. K. E. Peiler. No. 1,373,202; Mar. 29; v. 284; p. 871.
- Glass-delivery apparatus. R. T. McGee. No. 1,394,920; Oct. 25.
- Glass. Device for attaching signs to. L. M. Smith. No. 1,391,861; Sept. 27; v. 290; p. 692.
- Glass. Device for obtaining quantities of molten. E. Hopkinson. No. 1,378,460; May 17; v. 286; p. 506.
- Glass. Device for severing. H. F. Hitner. No. 1,373,728; Apr. 5; v. 285; p. 67.
- Glass-discharging mechanism. E. S. Hutton. No. 1,391,957; Sept. 27; v. 290; p. 711.
- Glass-discharging mechanism. E. S. Hutton. No. 1,394,677; Oct. 25.
- Glass. Drawing. W. L. Monroe. No. 1,396,339; Nov. 8.
- Glass. Drawing and painting. A. K. Cross. No. 1,387,439; Aug. 9; v. 289; p. 365.
- Glass-drawing apparatus. J. J. Bloxson and E. E. Myers. No. 1,375,818; Apr. 26; v. 285; p. 605.
- Glass-drawing apparatus. H. K. Hitchcock. No. 1,398,019; Nov. 22.
- Glass-drawing apparatus. J. R. Scohy. No. 1,372,044; Mar. 22; v. 284; p. 603.
- Glass-drawing apparatus. Cooling device for. W. A. Jones. No. 1,396,216; Nov. 8.
- Glass-drawing apparatus. Sheet-. R. G. Ewing. No. 1,399,547; Dec. 6.



- Glass-drawing apparatus, Sheet-. C. A. Rhonemus. No. 1,391,406; Sept. 20; v. 290; p. 526.
- Glass-drawing machine, Sheet-. R. P. Callard and C. A. Rhonemus. No. 1,393,081; Oct. 11.
- Glass-drawing machine, Sheet-. O. P. Marconet and W. O. Carter. No. 1,398,109; Nov. 22.
- Glass-drawing machines, and in the process of drawing glass, Bait for. A. E. Spinasse. (Reissue.) No. 1,514,313; July 5; v. 288; p. 162.
- Glass-drawing machines, Sheet-. C. A. Rhonemus. No. 1,391,405; Sept. 20; v. 290; p. 526.
- Glass-drawing process. H. G. Slingluff. No. 1,364,895; Jan. 11; v. 282; p. 207.
- Glass due to insufficient annealing, Scleroscope for testing the hardness or strain in. C. M. Garland. No. 1,370,738; Mar. 8; v. 284; p. 232.
- Glass factories, Double ring for. J. Durieux. No. 1,367,027; Feb. 1; v. 283; p. 29.
- Glass-feeding apparatus. K. E. Peiler. No. 1,401,921; Dec. 27.
- Glass, Finishing. L. Showers. No. 1,373,532; Apr. 5; v. 285; p. 30.
- Glass-forming apparatus, Sheet-. M. J. Owens. No. 1,397,326; Nov. 15.
- Glass-forming machine. C. R. Lott. No. 1,369,679; Feb. 22; v. 283; p. 690.
- Glass-forming machines, Mold-clamp for. E. G. Bridges. No. 1,398,670; Nov. 29.
- Glass-furnace. A. F. Peeters. No. 1,366,745; Jan. 25; v. 282; p. 652.
- Glass-gage protector. W. J. Whiteside. No. 1,382,582; June 21; v. 287; p. 540.
- Glass gathering and shaping machine. M. J. Owens. No. 1,364,514; Jan. 4; v. 282; p. 91.
- Glass globes, Rack for. E. L. Reed. No. 1,389,984; Sept. 6; v. 290; p. 86.
- Glass, Grinding. W. Taylor. No. 1,401,830; Dec. 27.
- Glass, Grinding. W. Taylor. No. 1,401,832; Dec. 27.
- Glass-grinding machine. E. A. Ryon. No. 1,373,835; Apr. 5; v. 285; p. 89.
- Glass-grinding machine. E. A. Ryon. No. 1,373,836; Apr. 5; v. 285; p. 89.
- Glass-grinding machine. E. A. and A. T. Ryon. No. 1,372,553; Mar. 22; v. 284; p. 700.
- Glass-grinding tables, Mechanism for shifting plate-. F. E. Troutman. No. 1,385,852; July 26; v. 288; p. 741.
- Glass, Gripping and cutting sheet-. H. S. Campbell. No. 1,367,858; Feb. 8; v. 283; p. 250.
- Glass-holder. R. G. Mitchell. No. 1,397,323; Nov. 15.
- Glass, Machine for rolling plate-. H. A. Reynolds. No. 1,375,014; Apr. 19; v. 285; p. 420.
- Glass, Machinery for rolling. A. Shuman. No. 1,382,608; June 21; v. 287; p. 545.
- Glass, Making plate-. J. H. McKelvey and C. F. Ryan. No. 1,397,287; Nov. 15.
- Glass, Means and method for producing charges of molten. C. R. Lott. No. 1,382,993; June 28; v. 287; p. 672.
- Glass, Mechanism for cutting off molten. F. H. Lobb. No. 1,388,654; Aug. 23; v. 289; p. 714.
- Glass-melting furnace. L. L. Mount. No. 1,395,591; Nov. 1.
- Glass-melting pots, Making. J. A. Bechtel. No. 1,366,861; Jan. 25; v. 282; p. 675.
- Glass, Method and apparatus for making plate-. W. H. Powell. No. 1,381,591; June 14; v. 287; p. 292.
- Glass, Method and apparatus for the manufacture of. A. Ferguson. No. 1,371,084; Mar. 8; v. 284; p. 298.
- Glass, Method of and apparatus for cutting sheet-. J. P. Crowley. No. 1,377,320; May 10; v. 286; p. 236.
- Glass, Method of and apparatus for grinding. W. Taylor. No. 1,401,831; Dec. 27.
- Glass, Method of and apparatus for removing striæ from melted. S. R. Scholes, L. W. Nicols, and W. F. Kaufman. No. 1,370,673; Mar. 8; v. 284; p. 220.
- Glass-molding. F. W. Miller. No. 1,368,958; Feb. 15; v. 283; p. 510.
- Glass, Multiple looking-. E. V. Gerber. No. 1,395,812; Nov. 1.
- Glass, Ornamenting sheet-. M. J. Howard. No. 1,375,251; Apr. 19; v. 285; p. 465.
- Glass, Pavement-light. F. L. Keppler. No. 1,385,688; July 26; v. 288; p. 709.
- Glass plates, Machine for grinding. W. J. Herschede and W. Eberhardt. No. 1,401,693; Dec. 27.
- Glass, porcelain, Manufacturing of decorative. G. Sato. No. 1,372,555; Mar. 22; v. 284; p. 701.
- Glass-pot furnace. M. Mathy. No. 1,369,453; Feb. 22; v. 283; p. 645.
- Glass, Process and apparatus for drawing sheet-. I. W. Colburn. No. 1,394,809; Oct. 25.
- Glass, Process and apparatus for severing sheet-. H. G. Slingluff. No. 1,373,533; Apr. 5; v. 285; p. 30.
- Glass, Production of bores in. J. Kent. No. 1,382,650; June 28; v. 287; p. 607.
- Glass protector, Window-. F. S. Giles. No. 1,371,159; Mar. 8; v. 284; p. 312.
- Glass roofing or wall. A. Shuman. No. 1,387,621; Aug. 16; v. 289; p. 453.
- Glass roll. K. Matsuo. No. 1,394,684; Oct. 25.
- Glass-rolling mechanism. J. Soderberg. No. 1,398,046; Nov. 22.
- Glass-severing. K. E. Peiler. No. 1,379,594; May 24; v. 286; p. 794.
- Glass sheets, Preventing accumulation of moisture in drops on. J. H. T. Roberts. No. 1,369,708; Feb. 22; v. 283; p. 695.
- Glass sheets, Producing flat parallel-sided. W. H. Taylor. No. 1,398,050; Nov. 22.
- Glass spoons, Box for holding. J. Hirsch. No. 1,367,600; Feb. 8; v. 283; p. 200.
- Glass surfaces, Article of manufacture for preventing accumulation of moisture upon. M. C. Pitman. No. 1,386,362; Aug. 2; v. 289; p. 79.
- Glass-tank. A. E. Spinasse. No. 1,375,941; Apr. 26; v. 285; p. 629.
- Glass-tank furnace. J. E. Hurley. No. 1,390,614; Sept. 13; v. 290; p. 304.
- Glass to molds, Means for conveying. J. Whittemore. No. 1,399,176; Dec. 6.
- Glass tubes, Method of and apparatus for forming. K. Kuppers. No. 1,395,963; Nov. 1.
- Glass using natural silicates, such as micaceous minerals, asbestos, &c., Manufacture of. A. P. B. Crossley. No. 1,394,973; Oct. 25.
- Glass-working. K. E. Peiler. No. 1,401,922; Dec. 27.
- Glass-working machine. F. L. O. Wadsworth. No. 1,375,336; Apr. 19; v. 285; p. 481.
- Glasses, enamels, and glazes, Manufacture of white clouded. E. Rietz. No. 1,366,101; Jan. 18; v. 282; p. 481.
- Glasses, suction-cups, &c., Apparatus for the rapid application of cupping-. F. Devienne. No. 1,397,038; Nov. 15.
- Glasses, &c., Vise for holding. M. Mathy. No. 1,369,454; Feb. 22; v. 283; p. 645.
- Glassware-machine. E. H. Curtis, Jr. No. 1,386,240; Aug. 2; v. 289; p. 56.
- Glassware, Machine for burning or glazing the edges and sides of. A. B. Knight. No. 1,364,939; Jan. 11; v. 282; p. 216.
- Glassware, Machine for grinding. A. B. Knight. No. 1,364,940; Jan. 11; v. 282; p. 216.
- Glassware, Machine for making hollow. E. S. Hutton. No. 1,394,092; Oct. 18.
- Glassware, Manufacture of. W. H. McSwain. No. 1,384,967; July 19; v. 288; p. 484.
- Glassware, Mechanism for forming. W. J. Miller. No. 1,400,621; Dec. 20.
- Glassware, Method of and apparatus for manufacturing. E. P. Lindahl. No. 1,390,626; Sept. 13; v. 290; p. 307.
- Glauber's salt, tri-sodium phosphate, and neutral sodium phosphate, Making. G. T. Walker. No. 1,379,735; May 31; v. 286; p. 895.
- Glazing-bar and making the same. J. T. Hutchinson, J. V. Shaw, and F. Barnes. No. 1,367,187; Feb. 1; v. 283; p. 60.
- Glazing-clip. H. M. Lutz. No. 1,385,217; July 19; v. 288; p. 536.
- Glazing-machine. W. R. Soper. No. 1,376,473; May 3; v. 286; p. 18.
- Glazing-machines, Safety-hook for. J. G. Baumann. No. 1,392,041; Sept. 27; v. 290; p. 729.
- Glazing system. A. E. Drown. No. 1,377,673; May 10; v. 286; p. 303.
- Globe and fuse carrier. H. M. Strong. No. 1,371,272; Mar. 15; v. 284; p. 396.
- Globe, Collapsible. S. E. Lyman. No. 1,375,853; Apr. 26; v. 285; p. 612.
- Globe, Combination. J. Falcone. No. 1,377,121; May 3; v. 286; p. 141.
- Globe, Inflatable. E. Hendry. No. 1,383,115; June 28; v. 287; p. 695.
- Globe-manipulator. M. Swider. No. 1,366,296; Jan. 18; v. 282; p. 519.
- Glove. H. A. Gillian. No. 1,375,904; Apr. 26; v. 285; p. 622.
- Glove. B. C. Grinnell. No. 1,377,338; May 10; v. 286; p. 240.
- Glove. H. Ross. No. 1,385,715; July 26; v. 288; p. 714.
- Glove. A. Van Realte. No. 1,374,257; Apr. 12; v. 285; p. 211.
- Glove and making same. G. P. Bosworth. No. 1,385,963; July 26; v. 288; p. 963.
- Glove and mitten structure. B. Stewart. No. 1,396,539; Nov. 8.
- Glove construction. R. N. Carson. No. 1,388,549; Aug. 23; v. 289; p. 693.
- Glove, Control-. J. G. Ropiak. No. 1,391,210; Sept. 20; v. 290; p. 486.
- Glove cover, Boxing-. Z. G. Oldham. No. 1,401,722; Dec. 27.
- Glove-drier form. M. T. Kearns. No. 1,369,341; Feb. 22; v. 283; p. 623.
- Glove-finger-supporting tube. D. Baum. No. 1,378,646; May 17; v. 286; p. 542.
- Glove-pointing machine. W. Horn and J. Hagan. No. 1,378,820; May 17; v. 286; p. 576.
- Glove-sewing machine. A. Grieb. No. 1,388,109; Aug. 16; v. 289; p. 549.
- Glove, Swimming-. S. J. Niemann. No. 1,384,673; July 12; v. 288; p. 344.
- Glove, Swimming-. M. Schreiner. No. 1,371,709; Mar. 15; v. 284; p. 483.
- Gloves, Method of and apparatus for making webbed. A. K. Zawadzki. No. 1,359,283; Aug. 30; v. 289; p. 894.



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- Glue and gelatin, Process and apparatus for the extraction of. F. H. Tunnell. No. 1,364,904; Jan. 11; v. 282; p. 209.
- Glue and making same, Vegetable. W. M. Grosvenor. No. 1,378,105; May 17; v. 286; p. 439.
- Glue and making same, Vegetable. W. M. Grosvenor. No. 1,378,106; May 17; v. 286; p. 439.
- Glue and making same, Vegetable. F. S. Williams, J. G. B. Perkins, and J. B. B. Stryker. No. 1,378,078; May 17; v. 286; p. 434.
- Glue-applying mechanism. M. Hirschhorn. No. 1,365,590; Jan. 11; v. 282; p. 342.
- Glue, Casein. A. U. Messmer. No. 1,373,518; Apr. 5; v. 285; p. 28.
- Glue, Making vegetable. J. G. B. Perkins and J. B. B. Stryker. No. 1,378,128; May 17; v. 286; p. 444.
- Glue, Manufacture of liquid. D. K. Tressler. Nos. 1,394,653-4; Oct. 25.
- Glue, Manufacture of substances precipitating. A. Römer. No. 1,375,975; Apr. 26; v. 285; p. 635.
- Glue, Manufacture of substances precipitating. A. Römer. No. 1,375,976; Apr. 26; v. 285; p. 635.
- Glue, Manufacture of vegetable. V. G. Bloede. No. 1,396,315; Nov. 8.
- Glue-pot. C. W. Mabey. No. 1,376,823; May 3; v. 286; p. 84.
- Glues or cements, Producing. A. A. Dunham. No. 1,391,768; Sept. 27; v. 290; p. 672.
- Glues, Preparing casein. A. A. Dunham. No. 1,391,769; Sept. 27; v. 290; p. 672.
- Glues, Preparing casein. A. A. Dunham. No. 1,391,770; Sept. 27; v. 290; p. 673.
- Gluing-machine. F. C. Dobbertein. No. 1,387,641; Aug. 16; v. 289; p. 457.
- Gluing-machine. A. Elmendorf. No. 1,400,943; Dec. 20.
- Gluing-machine. G. McConnell. No. 1,399,975; Dec. 13.
- Gluing-machine. O. Sorci. No. 1,371,942; Mar. 15; v. 284; p. 527.
- Gluing mechanism, Detector-controlled. L. L. Clark. No. 1,392,117; Sept. 27; v. 290; p. 744.
- Glycols, Manufacturing flavoring extracts with. B. H. Smith and J. R. Eoff, Jr. No. 1,384,681; July 12; v. 288; p. 345.
- Gocart, Collapsible or folding. G. R. Trevillian. No. 1,373,034; Mar. 29; v. 284; p. 837.
- Go-cart, high chair, and baby-jumper, Folding convertible. O. H. Meyers. No. 1,378,598; May 17; v. 286; p. 533.
- Goggles. E. C. Capper. No. 1,386,989; Aug. 9; v. 289; p. 276.
- Goggles. E. T. P. Goodyear. No. 1,397,250; Nov. 15.
- Goggles. G. S. Johnston. No. 1,392,832; Oct. 4.
- Goggles. R. Malcom. No. 1,369,040; Feb. 22; v. 283; p. 506.
- Goggles. F. G. Ridgers. No. 1,389,985; Sept. 6; v. 290; p. 86.
- Goggles. F. Willson and H. F. Shindel. No. 1,401,572; Dec. 27.
- Gold and other precious metals, Receptacle and separator for particles of. R. C. Graham. No. 1,374,075; Apr. 5; v. 285; p. 135.
- Gold by air pressure, Instrument for supplying comminuted. F. J. Muspratt. No. 1,398,527; Nov. 29.
- Gold concentrator, Placer-. D. B. Cave. No. 1,387,238; Aug. 9; v. 289; p. 323.
- Gold-separator, Electrochemical. H. P. Ewell. No. 1,374,370; Apr. 12; v. 285; p. 232.
- Gold, White. D. Belais and A. R. Bondy. No. 1,391,449; Sept. 20; v. 290; p. 535.
- Golf-bag, Self-supporting. T. W. May. No. 1,384,078; July 12; v. 288; p. 219.
- Golf-ball and making the same. W. Pearce. No. 1,366,930; Feb. 1; v. 283; p. 10.
- Golf-ball and similar article. G. C. Worthington. No. 1,369,868; Mar. 1; v. 284; p. 22.
- Golf-ball structure and making same. A. J. Musselman. No. 1,364,576; Jan. 4; v. 282; p. 102.
- Golf-balls, Painting. A. J. Bate. No. 1,382,615; June 28; v. 287; p. 609.
- Golf-club. W. J. Keys. No. 1,378,416; May 17; v. 286; p. 498.
- Golf-club. G. W. Mattern. No. 1,383,654; July 5; v. 288; p. 82.
- Golf-club. T. Taylor. No. 1,396,470; Nov. 8.
- Golf course, Indoor-. G. Sochurek. No. 1,371,820; Mar. 15; v. 284; p. 503.
- Golf-practicing means. P. C. Sullivan. No. 1,383,876; July 5; v. 288; p. 128.
- Golf-teaching device, Mechanical. H. W. Garland. No. 1,399,761; Dec. 13.
- Golfer's seat with shades and utensil-hangers, Double combined. J. Skidmore. No. 1,383,771; July 5; v. 288; p. 107.
- Gong or signal. A. Pfeiffer. No. 1,367,563; Feb. 8; v. 283; p. 193.
- Gopher-trap. H. Kuhnhehn. No. 1,386,063; Aug. 2; v. 289; p. 20.
- Governor. F. J. Kalteyer. No. 1,379,265; May 24; v. 286; p. 732.
- Governor. P. Phillip. No. 1,380,588; June 7; v. 287; p. 50.
- Governor. W. M. White. No. 1,369,863; Mar. 1; v. 284; p. 21.
- Governor, Automatic. W. E. Blaine. No. 1,377,551; May 10; v. 286; p. 280.
- Governor, Automatic pressure-. R. J. Jenks. No. 1,377,078; May 3; v. 286; p. 133.
- Governor, Ball-. A. H. Sawten. No. 1,372,557; Mar. 22; v. 284; p. 701.
- Governor-controlled combustion-engine. A. Tacchella. No. 1,394,953; Oct. 25.
- Governor, Humidity-. G. E. Kirk. No. 1,365,038; Jan. 11; v. 282; p. 236.
- Governor, Pile-delivery. C. G. Pritchard. No. 1,386,364; Aug. 2; v. 289; p. 79.
- Grab. R. A. Smith. No. 1,364,820; Jan. 4; v. 282; p. 149.
- Grab-bucket. F. H. Williams. No. 1,376,847; May 3; v. 286; p. 85.
- Grab-hook. A. W. McGuire. No. 1,391,746; Sept. 27; v. 290; p. 668.
- Gradations, scales, series of numbers, or letters, Apparatus for simultaneously producing a plurality of. G. H. and H. H. Beal. No. 1,368,532; Feb. 15; v. 283; p. 428.
- Grade-indicator. C. C. Ford. No. 1,375,141; Apr. 19; v. 285; p. 444.
- Grader and drag, Road. J. M. Herring. No. 1,381,709; June 14; v. 287; p. 315.
- Grader and field-ditcher, Two-wheel road-. A. Johnson. No. 1,398,326; Nov. 29.
- Graders, Dumping mechanism for road-. A. N. Daywitt. No. 1,379,749; May 31; v. 286; p. 897.
- Graders, Steering mechanism for road-. J. R. Key. No. 1,370,973; Mar. 8; v. 284; p. 277.
- Grading aggregates, Mechanism for. L. W. Beuven. No. 1,368,422; Feb. 15; v. 283; p. 406.
- Grading and leveling machine, Combined road. J. D. Little and S. Clark. No. 1,393,385; Oct. 11.
- Grading and sorting apparatus. J. Conte. No. 1,377,399; May 10; v. 286; p. 252.
- Grading apparatus. A. H. Kopperud. No. 1,379,633; May 31; v. 286; p. 877.
- Grading-machine. W. Pilger. No. 1,397,180; Nov. 15.
- Grading machine, Road-. A. N. Daywitt. No. 1,379,748; May 31; v. 286; p. 897.
- Grading machine, Road-. J. R. Key. No. 1,369,033; Feb. 22; v. 283; p. 564.
- Grading or separating machine. S. Marshall. No. 1,399,022; Dec. 6.
- Gradometer. S. W. Hall. No. 1,378,540; May 17; v. 286; p. 522.
- Gradometer. C. A. Johnson. No. 1,398,433; Nov. 29.
- Gradometer. H. G. Lewis and W. S. Mayer. No. 1,378,042; May 17; v. 286; p. 427.
- Gradometer. R. B. Potter. No. 1,393,314; Oct. 11.
- Gratuating-machine. G. L. Taylor. No. 1,393,923; Oct. 18.
- Grain and seed cleaning machine, Feed-roll for. M. J. Nielsen. No. 1,375,228; Apr. 19; v. 285; p. 461.
- Grain and the like, Machine for shelling and polishing. L. Kaspar. No. 1,375,592; Apr. 19; v. 285; p. 530.
- Grain, Apparatus for forming and depositing stacks of. D. M. Graham. No. 1,377,336; May 10; v. 286; p. 240.
- Grain, Apparatus for treating. P. V. Austin. No. 1,377,743; May 10; v. 286; p. 316.
- Grain, &c., Apparatus for treating. W. Rotsted. No. 1,399,797; Dec. 13.
- Grain-bag holder. I. B. White. No. 1,388,823; Aug. 23; v. 289; p. 747.
- Grain-bearder. L. N. Dibert. No. 1,385,071; July 19; v. 288; p. 507.
- Grain-binder attachment. E. S. Erickson. No. 1,390,894; Sept. 13; v. 290; p. 360.
- Grain-board holder. J. A. Axt. No. 1,391,292; Sept. 20; v. 290; p. 502.
- Grain-cleaner. A. V. Cleland. No. 1,365,304; Jan. 11; v. 282; p. 287.
- Grain-cleaner. C. A. Torrence. No. 1,373,685; Apr. 5; v. 285; p. 59.
- Grain-cleaner. C. A. Torrence. No. 1,383,260; June 28; v. 287; p. 722.
- Grain cleaner, separator, and drier. W. A. Petteys. No. 1,398,275; Nov. 29.
- Grain-cleaning machine. A. V. Cleland. No. 1,365,803; Jan. 11; v. 282; p. 286.
- Grain-cleaning machine. H. Morton. No. 1,393,154; Oct. 11.
- Grain-cleaning machine. H. S. Stansbury. No. 1,398,162; Nov. 22.
- Grain-cleaning machines, Feed-hopper for. R. L. Owens. No. 1,400,234; Dec. 13.
- Grain-cleaning machinery, Feed-hopper for. R. L. Owens. No. 1,400,232; Dec. 13.
- Grain-cleaning mechanism. A. P. Gould. No. 1,383,463; July 5; v. 288; p. 43.
- Grain-crib stave, Ventilated. W. A. Caldwell. (Reissue.) No. 15,217; Nov. 1.
- Grain-door. J. K. Kopchuk. No. 1,400,080; Dec. 13.
- Grain-door-forcing device. W. H. McGann. No. 1,400,447; Dec. 13.
- Grain-drier. W. Putnam and G. D. Longman. No. 1,365,950; Jan. 18; v. 282; p. 452.
- Grain-drier. W. Putnam and G. D. Longman. No. 1,392,794; Oct. 4.
- Grain drier and cooler. M. Davis. No. 1,384,689; July 12; v. 288; p. 347.
- Grain-drying. G. F. Brown. No. 1,377,662; May 10; v. 286; p. 301.



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- Grain-drying apparatus. V. Bigand. No. 1,364,477; Jan. 4; v. 282; p. 84.
- Grain-drill. W. B. Franks. No. 1,382,497; June 21; v. 287; p. 524.
- Grain-drill. E. Haggerty. No. 1,370,108; Mar. 1; v. 284; p. 67.
- Grain-drill attachment. H. Zarmstorf. No. 1,392,732; Oct. 4.
- Grain-drills, Automatic gear-throw-out mechanism for. T. Brennan, Jr. No. 1,394,663; Oct. 25.
- Grain-elevator. T. D. Budd. No. 1,391,297; Sept. 20; v. 290; p. 504.
- Grain-elevator. H. R. Straight. No. 1,367,929; Feb. 8; v. 283; p. 263.
- Grain for curing, Method of and apparatus for forming stacks of. D. M. Graham. No. 1,376,757; May 3; v. 286; p. 71.
- Grain-gathering mechanism. G. Schaefer. No. 1,370,919; Mar. 8; v. 284; p. 266.
- Grain in bulk, Apparatus for handling of. A. E. Heath. No. 1,390,032; Sept. 6; v. 290; p. 95.
- Grain-loader. E. H. Bremer. No. 1,374,423; Apr. 12; v. 285; p. 243.
- Grain-loader. C. F. Todt. No. 1,366,435; Jan. 25; v. 282; p. 590.
- Grain, &c., Machine for treating. H. L. Breen. No. 1,396,621; Nov. 8.
- Grain, Mill for grinding. T. Prokopowicz. No. 1,392,219; Sept. 27; v. 290; p. 764.
- Grain-pickler. E. N. Leizert. No. 1,371,913; Mar. 15; v. 284; p. 521.
- Grain, Process and apparatus for polishing. J. A. Smith. No. 1,389,277; Aug. 30; v. 289; p. 892.
- Grain-separator. C. W. Carter. No. 1,364,247; Jan. 4; v. 282; p. 39.
- Grain-separator. A. G. Fehring. No. 1,393,993; Oct. 18.
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- Grain-separators, Self-feeder for. H. Downing. No. 1,371,021; Mar. 8; v. 284; p. 286.
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- Grain-shock loader. E. W. Burgess. No. 1,385,939; July 26; v. 288; p. 758.
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- Grain-shocks, Forming. F. B. Enders. No. 1,391,248; Sept. 20; v. 290; p. 495.
- Grain-shocker, Automatic. C. S. Agre. No. 1,380,285; May 31; v. 286; p. 999.
- Grain-shocker, Automatic. A. P. Lofstrand. No. 1,373,252; Mar. 29; v. 284; p. 880.
- Grain-sprouter. L. R. Oakes. No. 1,392,021; Sept. 27; v. 290; p. 725.
- Grain, Sprouting. N. A. Renstrom. No. 1,396,235; Nov. 8.
- Grain spouts and chutes, Lining for. R. Esche. No. 1,382,897; June 28; v. 287; p. 653.
- Grain-storage bin. Z. Wirt. No. 1,372,060; Mar. 22; v. 284; p. 606.
- Grain-tanks, Cable for thermo-electric circuits of. L. H. Des Isles. No. 1,365,465; Jan. 11; v. 282; p. 318.
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- Grain-treating machine. H. Lepak. No. 1,392,649; Oct. 4.
- Grain under high pressure and high temperature, Apparatus for processing. C. V. Rowell. No. 1,395,014; Oct. 25.
- Grain-washing machine. C. Dawson. No. 1,400,664; Dec. 20.
- Grains and product therefrom, Treating wheat. C. V. Rowell. No. 1,395,015; Oct. 25.
- Gramophone and like machine. E. A. Graham. No. 1,401,069; Dec. 20.
- Gramophones and like machines, Apparatus or means for automatically stopping. J. I. Rodway. No. 1,399,881; Dec. 13.
- Gramophones, Automatic stop for. O. O. Storle. No. 1,375,120; Apr. 19; v. 285; p. 440.
- Granular material, Drying. C. W. Carter. No. 1,384,047; July 12; v. 288; p. 213.
- Granular substances in molds or other receptacles, Apparatus for consolidating. F. G. Price. No. 1,387,175; Aug. 9; v. 289; p. 312.
- Granulating moist material, Machine for. E. Worsley. No. 1,390,256; Sept. 6; v. 290; p. 139.
- Grape extract, Manufacture of. E. Monti. No. 1,401,351; Dec. 27.
- Grape-juice syrup and treating same. S. Avis. No. 1,381,613; June 14; v. 287; p. 296.
- Grapes and producing same, Artificial. J. H. Emery. No. 1,390,349; Sept. 13; v. 290; p. 250.
- Grapefruit-shield. A. K. George. No. 1,372,224; Mar. 22; v. 284; p. 638.
- Graphic reproduction. H. Perregaux. No. 1,365,058. Jan. 11; v. 282; p. 238.
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- Graphite, Automatic feeding device for. B. U. Mills. No. 1,384,892; July 19; v. 288; p. 469.
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- Graphometer. R. B. Tempest. No. 1,365,868; Jan. 18; v. 282; p. 436.
- Graphophone. A. Laurencich. No. 1,364,201; Jan. 4; v. 282; p. 30.
- Graphophone-cabinets, Individual-record ejector for. W. J. Young. No. 1,393,065; Oct. 11.
- Graphophones, Automatic stop for. M. Mollan. No. 1,378,603; May 17; v. 286; p. 534.
- Graphophones, Resonator device for. J. Johnson. No. 1,371,900; Mar. 15; v. 284; p. 519.
- Graphophones, Stop mechanism for. E. O. Klemm. No. 1,385,690; July 26; v. 288; p. 709.
- Graphophones, Time-controlled mechanism for. J. Coia. No. 1,375,279; Apr. 19; v. 285; p. 471.
- Grapnels, Making. S. P. Birdsey. No. 1,380,766; June 7; v. 287; p. 84.
- Grapple. J. C. Ginter. No. 1,376,014; Apr. 26; v. 285; p. 643.
- Grapple. J. Pohl. No. 1,366,746; Jan. 25; v. 282; p. 652.
- Grapple, Hoisting and conveying. B. F. Weber and F. E. Woodford. No. 1,384,793; July 19; v. 288; p. 449.
- Grappling-hook. F. J. Porter. No. 1,388,482; Aug. 23; v. 289; p. 681.
- Grass-cutter. P. J. Haas. No. 1,367,380; Feb. 1; v. 283; p. 99.
- Grass cutter and lawn-aerator, Bermuda. A. J. Kerr. No. 1,385,007; July 19; v. 288; p. 493.
- Grass destroyer, Quack. C. G. Carleson. No. 1,368,113; Feb. 8; v. 283; p. 298.
- Grass destroyer, Quack. A. L. Johnson. No. 1,387,725; Aug. 16; v. 289; p. 474.
- Grass-harvester. J. A. Valderrama Ricordi. No. 1,373,213; Mar. 29; v. 284; p. 873.
- Grass-hook. H. S. Earle. No. 1,387,246; Aug. 9; v. 289; p. 325.
- Grass, Machine for eradicating quack. W. E. Clark. No. 1,380,635; June 7; v. 287; p. 58.
- Grass-trimmer. E. Wikstrom. No. 1,375,195; Apr. 19; v. 285; p. 455.
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- Grate. E. J. Berge. No. 1,378,086; May 17; v. 286; p. 436.
- Grate. L. Budd. No. 1,400,722; Dec. 20.
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- Grate. L. A. States. No. 1,387,871; Aug. 16; v. 289; p. 503.
- Grate-bar. A. Johnson. No. 1,401,783; Dec. 27.
- Grate-bar. L. C. Perkins and B. F. McKinney. No. 1,389,529; Aug. 30; v. 289; p. 942.
- Grate-bar. F. C. Stimmel. No. 1,370,241; Mar. 1; v. 284; p. 93.
- Grate-bar and support therefor. E. B. McConnell. No. 1,382,998; June 28; v. 287; p. 673.
- Grate-bars, Making. W. A. Leddell. No. 1,398,492; Nov. 29.
- Grate-basket. P. F. Semonin. No. 1,385,931; July 26; v. 288; p. 757.
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- Grate, Boiler. A. Masci. No. 1,379,272; May 24; v. 286; p. 734.
- Grate, Chain. W. M. Duncan. No. 1,365,669; Jan. 18; v. 282; p. 396.
- Grate, Chain. A. G. Fox. No. 1,386,857; Aug. 9; v. 289; p. 249.
- Grate, Chain. S. S. Slaughan. No. 1,382,686; June 28; v. 287; p. 614.
- Grate, Chain. V. V. Veenschoten. No. 1,401,211; Dec. 27.
- Grate, Coal. J. W. Tatum. No. 1,389,792; Sept. 6; v. 290; p. 47.
- Grate for gas-producers and carbonizing plants. J. Wells. No. 1,380,278; May 31; v. 286; p. 998.
- Grate, Furnace. C. J. Huber. (Reissue.) No. 15,124; June 14; v. 287; p. 351.
- Grate, Furnace with rotary. E. Romanet. No. 1,371,056; Mar. 8; v. 284; p. 292.
- Grate, Lignite. A. A. Rumreich. No. 1,381,887; June 14; v. 287; p. 349.
- Grate, radiator, and ventilator, Combined. J. A. Greene. No. 1,365,912; Jan. 18; v. 282; p. 445.
- Grate-shaker bar. E. K. Wolfe. No. 1,393,930; Oct. 18.
- Grate shaking and dumping mechanism. R. C. White. No. 1,399,811; Dec. 13.
- Grate, Stoker. G. F. Patterson. No. 1,395,006; Oct. 25.
- Grate stoker, Traveling. W. M. Duncan. No. 1,395,486; Nov. 1.
- Grate, Stove. E. G. Roessler. No. 1,397,386; Nov. 15.
- Grate structure. G. P. Chrysler. No. 1,369,883; Mar. 1; v. 284; p. 25.
- Grate, Traveling. L. W. Klein. No. 1,368,164; Feb. 8; v. 283; p. 307.
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- Grates, Operating device for shaping. L. Budd. No. 1,395,478; Nov. 1.
- Grater and slicer, Vegetable. J. Kutter. No. 1,372,239; Mar. 22; v. 284; p. 641.
- Grater, Vegetable-. P. Koinzer. No. 1,376,704; May 3; v. 286; p. 61.
- Grating coconuts, Apparatus for. M. L. Wilson. No. 1,369,207; Feb. 22; v. 283; p. 598.
- Grave-marker. W. F. Norman. No. 1,400,970; Dec. 20.
- Grave-marker. L. M. Sullivan. No. 1,364,902; Jan. 11; v. 282; p. 209.
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- Gravel-cleaning apparatus. J. S. G. Lamb, Jr. No. 1,368,267; Feb. 15; v. 283; p. 376.
- Gravel, Forming sand from. J. H. Rodgers. No. 1,401,445; Dec. 27.
- Gravities, Apparatus for separating materials of different specific. C. Schifferle. No. 1,381,596; June 14; v. 287; p. 293.
- Gravity-carrier. W. G. Price. No. 1,399,318; Dec. 6.
- Gravity-discharge reheating-furnace, Continuous automatic. A. W. Horn. No. 1,380,102; May 31; v. 286; p. 965.
- Grease and oil cup. J. W. Franz. No. 1,395,406; Nov. 1.
- Grease and oil dispensing apparatus. H. M. Boe. No. 1,369,517; Feb. 22; v. 283; p. 657.
- Grease and oil separator. F. W. Mason. No. 1,377,906; May 10; v. 286; p. 349.
- Grease-cup. T. E. Adkins. No. 1,373,991; Apr. 5; v. 285; p. 120.
- Grease-cup. J. B. Blain. No. 1,383,379; July 5; v. 288; p. 25.
- Grease-cup. J. B. Blain. No. 1,390,078; Sept. 6; v. 290; p. 105.
- Grease-cup. L. N. Bourdeau. No. 1,393,879; Oct. 18.
- Grease-cup. L. G. Copeman. No. 1,368,546; Feb. 15; v. 283; p. 431.
- Grease-cup. L. G. Copeman. No. 1,395,336; Nov. 1.
- Grease-cup. T. C. Davenport. No. 1,389,437; Aug. 30; v. 289; p. 924.
- Grease-cup. W. W. Davis and W. W. McDonald. No. 1,381,809; June 14; v. 287; p. 334.
- Grease-cup. C. H. Dow. No. 1,370,523; Mar. 8; v. 284; p. 190.
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- Grease-cup. A. Ehrhart. No. 1,399,944; Dec. 13.
- Grease-cup. W. F. Emerson. No. 1,373,805; Apr. 5; v. 285; p. 82.
- Grease-cup. D. E. Hardman. No. 1,372,427; Mar. 22; v. 284; p. 676.
- Grease-cup. J. Heckenbach. No. 1,385,373; July 26; v. 288; p. 643.
- Grease-cup. J. H. Miller. No. 1,393,304; Oct. 11.
- Grease-cup. O. Royal. No. 1,387,737; Aug. 16; v. 289; p. 476.
- Grease-cup. N. W. Trautner. No. 1,379,230; May 24; v. 286; p. 726.
- Grease-cup. P. F. Wollenweber. No. 1,368,675; Feb. 15; v. 283; p. 456.
- Grease-cup, Automatic. W. C. Machado. No. 1,394,435; Oct. 18.
- Grease-cup, Safety. V. J. King. No. 1,365,699; Jan. 18; v. 282; p. 401.
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- Grease-dispensing apparatus. H. M. Boe. No. 1,377,659; May 10; v. 286; p. 300.
- Grease-drum. H. A. Searle. No. 1,377,285; May 10; v. 286; p. 229.
- Grease-gun. J. Owens. No. 1,379,281; May 24; v. 286; p. 735.
- Grease-gun. J. J. Rischard. No. 1,368,840; Feb. 15; v. 283; p. 488.
- Grease-gun for barrels. A. J. Wood. No. 1,382,705; June 28; v. 287; p. 617.
- Grease-plug lock, Automatic. W. F. Schmidt. No. 1,399,085; Dec. 6.
- Grease-plug, Self-locking. F. E. Cook. No. 1,395,259; Nov. 1.
- Grease-retainer. A. P. and C. E. Linville. No. 1,382,991; June 28; v. 287; p. 671.
- Grenade. M. O. Anthony. No. 1,375,440; Apr. 19; v. 285; p. 502.
- Grenade or bomb. J. H. Woodberry. No. 1,366,623; Jan. 25; v. 282; p. 628.
- Grenade, Rifle. J. N. Crowe. No. 1,376,320; Apr. 26; v. 285; p. 702.
- Grenade, Rifle. C. C. Sheppard. No. 1,376,119; Apr. 26; v. 285; p. 663.
- Grenade-thrower. S. P. Johnson. No. 1,374,854; Apr. 12; v. 285; p. 326.
- Grenades, Fuse-plug for. F. L. Leblanc. No. 1,371,034; Mar. 8; v. 284; p. 288.
- Grid, Battery-. W. E. Holland and J. M. Skinner. No. 1,364,760; Jan. 4; v. 282; p. 137.
- Grid or grill. H. P. Ball. No. 1,373,788; Apr. 5; v. 285; p. 79.
- Griddle. F. J. T. O'Brien. No. 1,391,268; Sept. 20; v. 290; p. 499.
- Griddle. F. J. T. O'Brien. No. 1,391,269; Sept. 20; v. 290; p. 499.
- Griller. J. M. Segar. No. 1,398,157; Nov. 22.
- Grinder. A. Klay. No. 1,389,588; Sept. 6; v. 290; p. 6.
- Grinder. L. Warzecha. No. 1,370,770; Mar. 8; v. 284; p. 238.
- Grinder and shredder. H. J. Shelton. No. 1,375,862; Apr. 26; v. 285; p. 613.
- Grinder, Automatic cutlery-. O. P. Norman. No. 1,392,698; Oct. 4.
- Grinder, Crank-shaft. E. F. Hays and C. E. Garrison. No. 1,376,274; Apr. 26; v. 285; p. 693.
- Grinder, Cutter-blade. C. F. Robbins. No. 1,395,145; Oct. 25.
- Grinder, End-face. F. H. Mooney. No. 1,393,956; Oct. 18.
- Grinder, Gear-. E. J. Lees. No. 1,390,145; Sept. 6; v. 290; p. 118.
- Grinder-hood. W. A. and F. W. Marschke. No. 1,372,033; Mar. 22; v. 284; p. 601.
- Grinder, Meat-. W. J. Anderson. No. 1,375,766; Apr. 26; v. 285; p. 595.
- Grinder mechanism and boiler-furnaces. C. J. Davidson and W. J. Kenney. No. 1,372,652; Mar. 22; v. 284; p. 719.
- Grinder, Roll-. S. Hansen. No. 1,385,077; July 19; v. 288; p. 508.
- Grinder, Shears-. E. M. Stratton. No. 1,371,947; Mar. 15; v. 284; p. 527.
- Grinder, Sickle-. L. V. Sonner. No. 1,369,569; Feb. 22; v. 283; p. 668.
- Grinder-spindle. C. G. Olson. No. 1,393,817; Oct. 18.
- Grinder, Surface-. K. A. Pihl. No. 1,366,932; Feb. 1; v. 283; p. 10.
- Grinder, Universal drill-. E. T. Gorham. No. 1,364,747; Jan. 4; v. 282; p. 135.
- Grinder, Wood-pulp. W. R. Tidmarsh. No. 1,398,753; Nov. 29.
- Grinder, Wrist-pin. J. Singer. No. 1,393,046; Oct. 11.
- Grinders, Beater for. J. Ward. No. 1,401,017; Dec. 20.
- Grinders, Work-support for. S. E. Holt. No. 1,394,014; Oct. 18.
- Grinding and polishing machine. J. Carrie. No. 1,375,129; Apr. 19; v. 285; p. 442.
- Grinding and polishing machine, Edge. C. Brown. No. 1,380,133; May 31; v. 286; p. 970.
- Grinding and polishing machine, Portable. T. W. Watkins. No. 1,386,820; Aug. 9; v. 289; p. 242.
- Grinding and polishing machines, Abrasive-feeding mechanism for. S. F. Beck. No. 1,391,875; Sept. 27; v. 290; p. 694.
- Grinding and the like machines, Work-holder for. R. Harman. No. 1,383,941; July 5; v. 288; p. 141.
- Grinding apparatus. F. M. Furber. No. 1,364,876; Jan. 11; v. 282; p. 204.
- Grinding apparatus. F. M. Furber. No. 1,398,295; Nov. 29.
- Grinding apparatus and clutch therefor. H. A. Chase. No. 1,372,277; Mar. 22; v. 284; p. 648.
- Grinding compound. H. S. Holmes. No. 1,380,382; June 7; v. 287; p. 11.
- Grinding device, Cylinder-. G. E. Rhodes. No. 1,382,319; June 21; v. 287; p. 489.
- Grinding-fixture. J. Duplessie. No. 1,384,726; July 12; v. 288; p. 354.
- Grinding formed cutters, Machine for. W. O. Barnes. No. 1,373,586; Apr. 5; v. 285; p. 40.
- Grinding formed cutters, Machine for. W. O. Barnes. No. 1,373,587; Apr. 5; v. 285; p. 40.
- Grinding implement. J. L. Kotynek. No. 1,386,181; Aug. 2; v. 289; p. 44.
- Grinding internal cylindrical surfaces, Tool for. J. R. Hobbs. No. 1,393,625; Oct. 11.
- Grinding-machine. C. D. Buck. No. 1,371,854; Mar. 15; v. 284; p. 510.
- Grinding-machine. E. A. Hansen. No. 1,370,964; Mar. 8; v. 284; p. 275.
- Grinding-machine. B. M. W. Hanson. No. 1,388,182; Aug. 23; v. 289; p. 620.
- Grinding-machine. C. Knoth. No. 1,389,311; Aug. 30; v. 289; p. 899.
- Grinding-machine. J. A. Knowles. No. 1,367,150; Feb. 1; v. 283; p. 54.
- Grinding-machine. S. Lake. No. 1,396,130; Nov. 8.
- Grinding-machine. G. W. Lant. No. 1,394,418; Oct. 18.
- Grinding-machine. A. Lecomte. No. 1,389,835; Sept. 6; v. 290; p. 56.
- Grinding-machine. T. Lumsden. No. 1,384,966; July 19; v. 288; p. 484.
- Grinding-machine. A. E. Maynard. No. 1,397,289; Nov. 15.
- Grinding-machine. K. Middleboe. No. 1,380,112; May 31; v. 286; p. 967.
- Grinding-machine. J. O. Rollins. No. 1,381,593; June 14; v. 287; p. 293.
- Grinding-machine. A. Scrivenor. No. 1,382,747; June 28; v. 287; p. 625.
- Grinding-machine. R. C. Simmons. No. 1,386,080; Aug. 2; v. 289; p. 24.
- Grinding-machine. F. Stacey. No. 1,400,466; Dec. 13.



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- Grinding machine, Contour-. B. M. W. Hanson. No. 1,367,382; Feb. 1; v. 283; p. 100.
- Grinding machine, Cutter-. J. J. Guest. No. 1,398,187; Nov. 22.
- Grinding Machine for shaping articles by. M. A. Eaton. No. 1,377,118; May 3; v. 286; p. 141.
- Grinding machine, Hot-. C. G. Olson and F. W. England. No. 1,383,843; July 5; v. 288; p. 122.
- Grinding machine, Internal-. H. F. Joseph. No. 1,396,123; Nov. 8.
- Grinding machine, Piston-. O. Parkins. No. 1,391,349; Sept. 27; v. 290; p. 689.
- Grinding machine, Pulley-. W. C. Barnhart. No. 1,394,704; Oct. 25.
- Grinding machine, Punch-. H. W. Hodgson. No. 1,377,481; May 10; v. 286; p. 268.
- Grinding machine, Roll-. L. R. Heim. (Reissue.) No. 15,035; Jan. 25; v. 282; p. 683.
- Grinding machine, Scissors-. S. O. Heindl. No. 1,381,416; June 14; v. 287; p. 260.
- Grinding machine, Vertical-surface-. B. M. W. Hanson. No. 1,392,325; Oct. 4.
- Grinding-machine work-table. J. Nielsen. No. 1,365,536; Jan. 11; v. 282; p. 331.
- Grinding-machines and grinding. F. Müller. No. 1,365,337; Jan. 11; v. 282; p. 292.
- Grinding machines, Device for positioning and measuring optical axes of lenses in edge-. E. Stead. No. 1,389,912; Sept. 6; v. 290; p. 72.
- Grinding-machines, Feed mechanism for. W. J. Herschede and W. Eberhardt. No. 1,401,699; Dec. 27.
- Grinding machines, Grinding-wheel carrier for horizontal surface-. T. Lumsden. No. 1,373,193; Mar. 29; v. 284; p. 869.
- Grinding-machines, machine-tools, and other machinery, Mounting of spindles of. K. J. Almfelt. No. 1,364,675; Jan. 4; v. 282; p. 121.
- Grinding machines, Tool-handle attachment for. T. B. Murphy. No. 1,400,762; Dec. 20.
- Grinding-mill. L. T. Bachman. No. 1,393,334; Oct. 11.
- Grinding-mill. R. W. Gordon and A. C. Daman. No. 1,381,987; June 21; v. 287; p. 427.
- Grinding-mill. H. W. Hardinge. No. 1,366,651; Jan. 25; v. 282; p. 634.
- Grinding-mill. H. W. Hardinge. No. 1,388,462; Aug. 23; v. 289; p. 678.
- Grinding-mill. A. E. Jacobson. No. 1,374,207; Apr. 12; v. 285; p. 201.
- Grinding-mill. W. Laburda. No. 1,366,391; Jan. 25; v. 282; p. 581.
- Grinding-mill. C. G. Thompson. No. 1,392,464; Oct. 4.
- Grinding-mill. J. Wanek. No. 1,365,574; Jan. 4; v. 282; p. 339.
- Grinding-mill and grinding medium therefor. H. W. Hardinge. No. 1,388,463; Aug. 23; v. 289; p. 678.
- Grinding-mill, Ball-. P. T. Lindhard. No. 1,368,739; Feb. 15; v. 283; p. 468.
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- Grinding plates. D. Maloney. No. 1,369,685; Feb. 22; v. 283; p. 691.
- Grinding shaving-machine blades, Machine for. M. Möller and A. E. Harms. No. 1,393,634; Oct. 11.
- Grinding-tool. J. F. MacDonald. No. 1,392,426; Oct. 4.
- Grinding tools and for similar purposes, Machine for. S. Hervyngel and F. Dubreucq. No. 1,377,884; May 10; v. 286; p. 345.
- Grinding two cylindrical machine parts at the same time, Compound grinding-head for. T. F. Bernard. No. 1,395,790; Nov. 1.
- Grinding-wheel chuck. C. E. Cadman. No. 1,389,738; Sept. 6; v. 290; p. 36.
- Grinding-wheel dresser. J. Dobson. No. 1,382,176; June 21; v. 287; p. 462.
- Grinding-wheel guard and rest, Combined. W. H. Sumbling. No. 1,386,741; Aug. 9; v. 289; p. 225.
- Grinding-wheel-truing tool. E. R. Connors. No. 1,383,601; July 5; v. 288; p. 71.
- Grinding-wheels, Device for truing and dressing. E. R. Connors. Nos. 1,395,391-2; Nov. 1.
- Grinding-wheels, Means for dressing. D. E. Ross and O. Garrison. No. 1,366,285; Jan. 18; v. 282; p. 517.
- Grinding wheels, Means for refinishing small. A. E. Crampton. No. 1,393,667; Oct. 11.
- Grinding-wheels, Mechanism for truing and dressing. E. R. Connors. Nos. 1,395,393-4; Nov. 1.
- Grinding-wheels, Mounting means for. W. H. Sumbling. No. 1,374,334; Apr. 12; v. 285; p. 225.
- Grindstone. S. R. and L. C. Adams. No. 1,375,343; Apr. 19; v. 285; p. 483.
- Grindstone-mounting. F. X. Trudel. No. 1,386,743; Aug. 9; v. 289; p. 226.
- Grindstones, Apparatus for dressing. R. R. Roberts. No. 1,373,833; Apr. 5; v. 285; p. 88.
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- Gripping device, Conductor-. R. B. Benjamin. No. 1,376,066; Apr. 26; v. 285; p. 653.
- Gripping-tool. C. W. Drake. No. 1,366,122; Jan. 18; v. 282; p. 485.
- Grizzly-screen. G. Hollingsbery. No. 1,399,211; Dec. 6.
- Grizzly, Traveling. C. M. Avery. No. 1,401,751; Dec. 27.
- Gromet. F. D. Martin. No. 1,384,565; July 12; v. 288; p. 320.
- Gromet making and setting machine. J. L. Stuart. No. 1,373,462; Apr. 5; v. 285; p. 16.
- Gromet-setting machine. P. R. Glass. No. 1,373,500; Apr. 5; v. 285; p. 24.
- Gromets and eyelets, Die for setting. J. L. Stuart. No. 1,373,461; Apr. 5; v. 285; p. 16.
- Grooves, Means for gaging the diameters of internal annular. F. Pountney. No. 1,395,768; Nov. 1.
- Ground. J. E. Rosenfeld. No. 1,388,485; Aug. 23; v. 289; p. 682.
- Ground-box. R. R. Scoggan. No. 1,377,029; May 3; v. 286; p. 124.
- Ground-clamp. P. Windman. No. 1,368,083; Feb. 8; v. 283; p. 291.
- Ground-detector. E. J. Simon. No. 1,391,911; Sept. 27; v. 290; p. 701.
- Ground-leveling machine. M. Jankievich. No. 1,380,106; May 31; v. 286; p. 965.
- Ground-working tools, Depth-regulating draft device for. H. F. Towner. No. 1,397,748; Nov. 22.
- Grouser. S. M. Wade. No. 1,374,481; Apr. 12; v. 285; p. 254.
- Guard and motor-cooler, Combined mud-. A. J. Shaughnessy. No. 1,374,475; Apr. 12; v. 285; p. 253.
- Guard, Automatic safety-. L. G. Stables. No. 1,400,835; Dec. 20.
- Guard, Derailing-. H. S. Votaw. No. 1,391,223; Sept. 20; v. 290; p. 489.
- Guard device. T. R. Herbest, Jr. No. 1,388,655; Aug. 23; v. 289; p. 712.
- Guard, Dust-. J. Mader. No. 1,383,003; June 28; v. 287; p. 674.
- Guard-finger and finger-bar. T. Witte. No. 1,374,973; Apr. 19; v. 285; p. 411.
- Guard, Footboard weather-. J. Valentine and F. W. Alkire. No. 1,385,287; July 19; v. 288; p. 550.
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- Guard, Mud-. R. Hastings. No. 1,374,917; Apr. 19; v. 285; p. 401.
- Guard, Nasal. T. A. De Vilbiss. No. 1,369,631; Feb. 22; v. 283; p. 680.
- Guard-rail chair. W. L. Daughtry. No. 1,378,328; May 17; v. 286; p. 481.
- Guard-rail chair. W. L. Daughtry. No. 1,381,454; June 14; v. 287; p. 267.
- Guard-rail clamp. R. E. Yolton. No. 1,380,329; May 31; v. 286; p. 1007.
- Guard, Trap-door. C. Peterson. No. 1,385,271; July 19; v. 288; p. 547.
- Gudgeon. C. C. Harris. No. 1,379,760; May 31; v. 286; p. 899.
- Gudgeon, Box bull and calf wheel. J. T. Taylor. No. 1,385,026; July 19; v. 288; p. 497.
- Guide, Buyer's. H. A. Goldstone. No. 1,376,198; Apr. 26; v. 285; p. 677.
- Guide-forming mechanism. A. E. Sibley. No. 1,367,924; Feb. 8; v. 283; p. 262.
- Guide-rail lubricator. C. F. Wolfe. No. 1,378,750; May 17; v. 286; p. 562.
- Guilloches and the like, Process and device for producing. A. Schulze. No. 1,391,859; Sept. 27; v. 290; p. 691.
- Gum, and making same, Chewing. H. M. Weber. No. 1,401,452; Dec. 27.
- Gum, Bookbinding-. S. E. Brick. No. 1,389,574; Sept. 6; v. 290; p. 3.
- Gum, Confection for use as a chewing. F. Y. Keator. No. 1,386,627; Aug. 9; v. 289; p. 202.
- Gum, Gas-operated machine-. E. A. L. Bourdelles. No. 1,389,810; Sept. 6; v. 290; p. 50.
- Gum, Medicated chewing-. G. King. No. 1,396,641; Nov. 8.
- Gum or chewing-gum substitute, Chewing-. A. P. Rapp. No. 1,397,742; Nov. 22.
- Gun. C. C. Bell. No. 1,391,991; Sept. 27; v. 290; p. 719.
- Gun. O. B. Graham. No. 1,396,832; Nov. 15.
- Gun. O. V. Payne. No. 1,397,698; Nov. 22.
- Gun. O. V. Payne. No. 1,399,440; Dec. 6.
- Gun. L. L. Summers. No. 1,401,010; Dec. 20.
- Gun. T. Thompson. No. 1,365,355; Jan. 11; v. 282; p. 296.
- Gun. R. Thum. No. 1,396,349; Nov. 8.
- Gun, Air-. F. F. Burton and T. D. Joeck. No. 1,396,404; Nov. 8.
- Gun, Air-. C. F. Lelever. No. 1,390,569; Sept. 13; v. 290; p. 294.
- Gun, Air-. E. S. Roe. No. 1,373,451; Apr. 5; v. 285; p. 14.
- Gun and rifle, Drop-down. H. H. Payne. No. 1,392,024; Sept. 27; v. 290; p. 726.
- Gun and self-propelling vehicle, Combined field-. E. Schneider. No. 1,379,128; May 24; v. 286; p. 707.
- Gun, Automatic. T. H. Eickhoff. No. 1,396,949; Nov. 15.
- Gun-barrel assembled by rotatory motion of its component parts, Composite. J. Vollmer. No. 1,400,780; Dec. 20.
- Gun, Barrel-recoil. F. Flinckh. No. 1,379,543; May 24; v. 286; p. 785.



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- Gun, Barrel-recoil. F. Finckh. No. 1,394,984; Oct. 25.  
 Gun-barrel built of an A-tube and a breech-piece. J. Vollmer. No. 1,398,819; Nov. 29.  
 Gun-barrel-muzzle steadier. M. L. Johnston. No. 1,390,447; Sept. 13; v. 290; p. 269.  
 Gun-barrel with a breech-piece screwed on an A-tube. J. Vollmer. No. 1,393,057; Oct. 11.  
 Gun-barrels, Apparatus for riding. W. P. Spade. No. 1,382,939; June 28; v. 287; p. 661.  
 Gun before the recoil of the gun-barrel, Safety apparatus for preventing the opening of the breech of a. E. Schneider. No. 1,388,607; Aug. 23; v. 289; p. 705.  
 Gun-carriage, Center-pivot. K. Völler. No. 1,399,674; Dec. 6.  
 Gun-carriage, Endless-track. E. Rimailho. No. 1,371,054; Mar. 8; v. 284; p. 292.  
 Gun-carriages and other vehicles suspended on springs, Wheeled axle for. E. Schneider. No. 1,374,238; Apr. 12; v. 285; p. 207.  
 Gun-cleaner. A. C. Drummond. No. 1,373,999; Apr. 5; v. 285; p. 121.  
 Gun-disappearing apparatus. J. A. Moran. No. 1,390,395; Dec. 6.  
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 Gun, Electric. F. B. MacLaren. No. 1,384,769; July 19; v. 288; p. 444.  
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 Gun, Gas-. G. U. Hall and J. B. Truitt. No. 1,383,111; June 28; v. 287; p. 694.  
 Gun, Gas-. E. P. Welch. No. 1,384,366; July 12; v. 288; p. 279.  
 Gun, Grease-. B. C. Bliven. No. 1,390,011; Sept. 6; v. 290; p. 91.  
 Gun, Grease-. B. C. Bliven. No. 1,400,207; Dec. 13.  
 Gun, Grease-. A. J. Dilley. No. 1,384,941; July 19; v. 288; p. 479.  
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 Gun, Grease-. P. B. Johnson. No. 1,372,292; Mar. 22; v. 284; p. 651.  
 Gun, Grease-. F. B. Killian. No. 1,391,325; Sept. 20; v. 290; p. 511.  
 Gun, Grease-. O. S. Newton. No. 1,386,648; Aug. 9; v. 289; p. 206.  
 Gun, Grease-. C. H. Nowack. No. 1,368,349; Feb. 15; v. 283; p. 392.  
 Gun, Grease-. W. U. Watson. No. 1,374,263; Apr. 12; v. 285; p. 212.  
 Gun, Grease-. A. White and M. Granum. No. 1,388,625; Aug. 23; v. 289; p. 708.  
 Gun, Grease and oil. E. Edelmann. No. 1,379,004; May 24; v. 286; p. 683.  
 Gun, Insect-powder. E. S. Baston. No. 1,369,215; Feb. 22; v. 283; p. 600.  
 Gun, Log-dislodging air-. W. B. Mahern and H. G. Goselin. No. 1,366,577; Jan. 25; v. 282; p. 619.  
 Gun, Machine-. C. W. Brown. No. 1,401,667; Dec. 27.  
 Gun, Machine-. V. Cassetta and F. Capaldo. No. 1,371,351; Mar. 15; v. 284; p. 412.  
 Gun, Machine-. A. E. Flörke. No. 1,401,768; Dec. 27.  
 Gun, Machine-. A. H. Fox. No. 1,388,856; Aug. 30; v. 289; p. 608.  
 Gun, Machine-. A. C. Harper. No. 1,369,426; Feb. 22; v. 283; p. 640.  
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 Gun, Machine-. R. O. Hooker. No. 1,391,252; Sept. 20; v. 290; p. 495.  
 Gun, Machine-. R. F. Hudson. No. 1,386,872; Aug. 9; v. 289; p. 252.  
 Gun, Machine-. R. M. McLain and W. M. Quick. No. 1,375,653; Apr. 19; v. 285; p. 542.  
 Gun, Machine-. J. F. O'Malley. No. 1,366,210; Jan. 18; v. 282; p. 502.  
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 Gun-mount for airplanes. J. A. Roché. No. 1,385,755; July 26; v. 288; p. 722.  
 Gun mount, Machine-. J. S. Peoples. No. 1,374,862; Apr. 12; v. 285; p. 328.  
 Gun, Mountain-. E. Schneider. No. 1,383,765; July 5; v. 288; p. 105.  
 Gun-mounting. A. T. Dawson and G. T. Buckham. No. 1,371,738; Mar. 15; v. 284; p. 488.  
 Gun-mounting. A. T. Dawson and G. T. Buckham. No. 1,382,174; June 21; v. 287; p. 461.  
 Gun-mounting. I. H. Griffiths. No. 1,394,083; Oct. 18.  
 Gun mounting and sighting apparatus. B. T. Hamilton. No. 1,398,688; Nov. 29.  
 Gun mounting, Machine-. F. W. Scarff. No. 1,364,525; Jan. 4; v. 282; p. 93.  
 Gun, Non-recoil. C. J. Cooke. No. 1,380,358; June 7; v. 287; p. 7.  
 Gun, Non-recoil. C. Davis. No. 1,395,630; Nov. 1.  
 Gun, Non-recoil. J. A. Giles. No. 1,394,490; Oct. 18.  
 Gun, Oil and grease. L. E. Wood. No. 1,393,001; Oct. 11.  
 Gun, Paint-. W. Kelly. No. 1,386,508; Aug. 2; v. 289; p. 106.  
 Gun, Pivot-. J. Becker. No. 1,376,793; May 3; v. 286; p. 78.  
 Gun, Pivot-. K. Haller. No. 1,373,962; Apr. 5; v. 285; p. 114.  
 Gun, Pneumatic. A. Christie. No. 1,396,929; Nov. 15.  
 Gun-pointing gear, Apparatus for the electrical long-distance control of the valve-gear of a hydraulic. W. Akemann. No. 1,375,269; Apr. 19; v. 285; p. 468.  
 Gun-pointing gear, Apparatus for the electrical long-distance control of the valve-gear of a hydraulic. W. Akemann. No. 1,394,520; Oct. 25.  
 Gun-pointing mechanism, Apparatus for the electrical long-distance control of the valve-gear of a hydraulic. W. Akemann. No. 1,371,136; Mar. 8; v. 284; p. 307.  
 Gun positions, Destroying enemy. R. A. Fessenden. No. 1,384,030; July 5; v. 288; p. 160.  
 Gun-searchlight. D. T. Smith. No. 1,396,147; Nov. 8.  
 Gun, Semi-automatic. L. L. Driggs. No. 1,383,353; Oct. 11.  
 Gun-sight. H. Q. Britton. No. 1,371,733; Mar. 15; v. 284; p. 447.  
 Gun-sight. H. R. Frensdorf. No. 1,376,089; Apr. 26; v. 285; p. 657.  
 Gun-sight. C. W. Irion. No. 1,387,987; Aug. 16; v. 289; p. 525.  
 Gun-sight. T. E. Jackson. No. 1,397,377; Nov. 15.  
 Gun-sight. H. Paulson. No. 1,370,478; Mar. 1; v. 284; p. 137.  
 Gun-sight. O. V. Payne. No. 1,397,108; Nov. 15.  
 Gun-sights, Mounting for telescope. R. V. R. Reynolds. No. 1,386,027; Aug. 2; v. 289; p. 13.  
 Gun-sling. F. K. Kennedy, Jr. No. 1,383,125; June 28; v. 287; p. 697.  
 Gun-slings, Attachment for. B. H. Grierson. No. 1,396,270; Nov. 8.  
 Gun, Spray-. W. A. Heinrich. No. 1,382,640; June 28; v. 287; p. 605.  
 Gun, Spray-. W. A. Heinrich. No. 1,382,641; June 28; v. 287; p. 605.  
 Gun-stocks, Method and apparatus for finishing. E. W. Pittman. No. 1,382,852; June 28; v. 287; p. 645.  
 Gun, Takedown. T. C. Johnson. No. 1,373,888; Apr. 5; v. 285; p. 99.  
 Gun, Toy machine-. F. H. Sommers. No. 1,385,054; July 19; v. 288; p. 503.  
 Gun-triggers, Method and means for actuating. G. Constantinesco. No. 1,392,944; Mar. 29; v. 284; p. 819.  
 Gun-tube and manufacture of same. A. E. Guy. No. 1,384,718; July 12; v. 288; p. 353.  
 Gun-tubes and like tubular bodies, Manufacture of. R. A. Hadfield, A. G. M. Jack, and A. B. H. Clerke. No. 1,365,987; Jan. 18; v. 282; p. 459.  
 Gun with barrel adjustable in a lateral direction. L. Schmidt. No. 1,385,153; July 19; v. 288; p. 524.  
 Gun with pedestal-mounting. K. Haller. No. 1,371,891; Mar. 15; v. 284; p. 517.  
 Guns, Apparatus for increasing the range of elevation in single-trail. E. Schneider. No. 1,396,064; Nov. 8.  
 Guns, Apparatus for training troops in pointing. O. Place. No. 1,376,357; Apr. 26; v. 285; p. 709.  
 Guns, Ejector mechanism for drop-down. H. H. Payne. No. 1,386,275; Aug. 2; v. 289; p. 62.  
 Guns, Electric fuse-setter controller for anti-aircraft. R. V. Morse. No. 1,391,134; Sept. 20; v. 290; p. 471.  
 Guns, Extension slide-handle for. A. M. Smith. No. 1,364,328; Jan. 4; v. 282; p. 55.  
 Guns, Fire-control apparatus for naval. W. Akemann. No. 1,373,793; Apr. 5; v. 285; p. 80.  
 Guns, Fire-control apparatus for naval. W. Akemann. No. 1,379,506; May 24; v. 286; p. 778.  
 Guns, Fire-control apparatus particularly intended for naval. H. Sundhausen. No. 1,375,264; Apr. 19; v. 285; p. 467.  
 Guns, Fire-control apparatus particularly intended for naval. W. Akemann. No. 1,387,440; Aug. 9; v. 289; p. 365.  
 Guns, Fire-direction apparatus for naval. W. Akemann. No. 1,384,005; July 5; v. 288; p. 155.  
 Guns, Foundation for. A. Kästner and K. Stratomeyer. No. 1,385,136; July 19; v. 288; p. 520.  
 Guns, Front sight for. C. R. Keeran. No. 1,380,150; May 31; v. 286; p. 974.  
 Guns, Loading feed-belts for machine-. H. H. Farr. No. 1,401,147; Dec. 27.  
 Guns, Magazine for. C. F. Lefever. No. 1,381,127; June 14; v. 287; p. 207.  
 Guns, Means for preventing the jamming of machine-. W. Thompson. No. 1,371,527; Mar. 15; v. 284; p. 448.  
 Guns, Motor-car having four driving-wheels for the transport of. E. Schneider. Nos. 1,396,598-9; Nov. 8.  
 Guns, Motor-vehicle for the transport and operation of small-caliber. E. Schneider. No. 1,377,603; May 10; v. 286; p. 289.  
 Guns, Mounting for. A. V. Roe. No. 1,382,241; June 21; v. 287; p. 474.  
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- Guns, Piston for grease-. H. M. Boe. No. 1,377,660; May 10; v. 286; p. 301.
- Guns, Recoil-brake for. E. Schneider. No. 1,373,102; Mar. 29; v. 284; p. 849.
- Guns, Recoil-brake for. E. Schneider. No. 1,373,103; Mar. 29; v. 284; p. 850.
- Guns, Recoil mechanism for. B. B. Holmes. No. 1,396,114; Nov. 8.
- Guns, Semi-automatic breech mechanism for. J. Lund. No. 1,387,502; Aug. 16; v. 289; p. 429.
- Guns, Shoulder-rest for. S. G. Green. No. 1,381,631; June 14; v. 287; p. 299.
- Guns, Shoulder-rest for. S. G. Green. No. 1,384,386; July 12; v. 288; p. 283.
- Guns, Sighting apparatus for firearms, and particularly for machine-. A. Amigues. No. 1,376,992; May 3; v. 286; p. 117.
- Guns, Sighting-gear for. H. W. Lee and R. Morrison. No. 1,397,765; Nov. 22.
- Guns, Single-trigger mechanism for double-barrel. C. W. Lindsay. No. 1,375,710; Apr. 26; v. 285; p. 585.
- Guns, Stock for single or double barreled. E. Mousseaux. No. 1,393,812; Oct. 18.
- Guns, Trigger and sear mechanism for machine-. E. Fowler. No. 1,375,451; Apr. 19; v. 285; p. 504.
- Guns, Tripods for machine-. J. S. Butler. No. 1,372,599; Mar. 22; v. 284; p. 710.
- Gutter-hanger. M. Rachlin. No. 1,392,966; Oct. 11.
- Gutter-hanger. M. Rachlin. No. 1,397,329; Nov. 15.
- Gutter-hanger circle. M. R. Berger. No. 1,368,539; Feb. 15; v. 283; p. 430.
- Gutter or eaves-trough hanger or support. K. Salmonsens. No. 1,384,856; July 19; v. 288; p. 460.
- Guy-clamp. S. G. Kearney. No. 1,366,541; Jan. 11; v. 282; p. 307.
- Gymnasium-light. G. L. Lockhart. No. 1,391,550; Sept. 20; v. 290; p. 556.
- Gymnastic apparatus. V. Jordan and J. T. Holmes. No. 1,401,476; Dec. 27.
- Gypsum blocks, Molding. C. R. Birdsey. No. 1,372,861; Mar. 29; v. 284; p. 802.
- Gypsum, Making plastic calcined. W. E. Emley. No. 1,392,574; Oct. 4.
- Gypsum products and product thereof, Aging calcined. H. E. Brookby. No. 1,370,581; Mar. 8; v. 284; p. 202.
- Gyrating-machine. J. H. Emery. No. 1,382,181; June 21; v. 287; p. 465.
- Gyroscope. E. F. Chandler. No. 1,370,285; Mar. 1; v. 284; p. 101.
- Gyroscope. S. B. Macfarlane and L. J. Barry. No. 1,382,372; June 21; v. 287; p. 499.
- Gyroscope. E. A. Sperry. No. 1,393,845; Oct. 18.
- Gyroscope-motors, Disk-shaped commutator for. H. Sundhaussen. No. 1,398,404; Nov. 29.
- Gyroscopes, Lubricating and cooling system for. E. A. and E. G. Sperry. No. 1,387,018; Aug. 9; v. 289; p. 282.
- Gyroscopes, Testing-stand for. E. Meitner. No. 1,374,162; Apr. 5; v. 285; p. 151.
- Gyroscopic device and method. C. M. Paxton. No. 1,380,335; May 31; v. 286; p. 1008.
- Gyroscopic device and method. C. M. Paxton. No. 1,380,336; May 31; v. 286; p. 1009.
- Gyroscopic roll and pitch record. E. A. Sperry. No. 1,399,032; Dec. 6.
- Gyroscopic stabilizer. H. Sundhaussen. No. 1,390,471; Sept. 13; v. 290; p. 274.
- Hacksaw. M. C. Gibson. No. 1,400,873; Dec. 20.
- Hacksaw. E. G. Ireland and J. D. Clark. No. 1,394,174; Oct. 18.
- Hacksaw-blade. A. M. Lawrence. No. 1,381,478; June 14; v. 287; p. 270.
- Hacksaw-blade. A. M. Lawrence. No. 1,369,178; Feb. 22; v. 283; p. 592.
- Hacksaw, Foldable. L. D. Barner. No. 1,380,628; June 7; v. 287; p. 57.
- Hacksaw-frame. H. Gulte. No. 1,370,809; Mar. 8; v. 284; p. 246.
- Hacksaw-frame. S. J. Morgan. No. 1,395,511; Nov. 1.
- Hacksaw-frame. G. H. Wilkins. No. 1,382,448; June 21; v. 287; p. 514.
- Hair and curl pin. L. Frommann, geborn Machtanzt. No. 1,372,285; Mar. 22; v. 284; p. 650.
- Hair and Skin treatment apparatus. T. Jackson. No. 1,365,036; Jan. 11; v. 282; p. 236.
- Hair, Apparatus for drying. J. Krauer. No. 1,372,237; Mar. 22; v. 284; p. 640.
- Hair, Apparatus for singeing the. I. Calvete. No. 1,388,402; Aug. 23; v. 289; p. 666.
- Hair-bobbing device. T. G. Gregory. No. 1,401,070; Dec. 20.
- Hair-clipper. C. H. Beach. No. 1,370,269; Mar. 1; v. 284; p. 98.
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- Hair-clipper. F. L. Gray. No. 1,395,104; Oct. 25.
- Hair-clipper. S. P. Jones and D. P. Wallace. No. 1,375,966; Apr. 26; v. 285; p. 634.
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- Hair-clipper. F. Leo. No. 1,393,948; Oct. 18.
- Hair-clipper. H. R. Sande and O. Moessing. No. 1,396,530; Nov. 8.
- Hair-clipper, Power-operated. W. F. Koken and G. G. Anderson. No. 1,379,450; May 24; v. 286; p. 767.
- Hair-clippers, Electric. C. Davison, Jr. No. 1,369,731; Feb. 22; v. 283; p. 700.
- Hair-crimper. M. Grable. No. 1,375,504; Apr. 19; v. 285; p. 513.
- Hair-curler. R. Gordone. No. 1,383,099; June 28; v. 287; p. 692.
- Hair-curler. E. M. Lindberg. No. 1,387,785; Aug. 16; v. 289; p. 487.
- Hair-curler. F. R. Marcel. No. 1,368,181; Feb. 8; v. 283; p. 311.
- Hair-curler. O. D. McClintock. No. 1,373,968; Apr. 5; v. 285; p. 115.
- Hair-curler. A. B. Powell. No. 1,376,728; May 3; v. 286; p. 65.
- Hair-curler. S. H. Tolman. No. 1,370,932; Mar. 8; v. 284; p. 269.
- Hair-curler. A. A. West. No. 1,381,775; June 14; v. 287; p. 328.
- Hair-curler. A. A. West. No. 1,381,776; June 14; v. 287; p. 328.
- Hair-curler, Electric. M. Miller. No. 1,400,305; Dec. 13.
- Hair-curling device. J. Goldsmith, Jr. No. 1,400,812; Dec. 20.
- Hair-curling device. V. G. Grenall. No. 1,372,421; Mar. 22; v. 284; p. 675.
- Hair-curling device. D. Marinsky. No. 1,390,803; Sept. 13; v. 290; p. 342.
- Hair-cutter. D. H. Butler. No. 1,399,103; Dec. 6.
- Hair-cutter. J. W. Henry. No. 1,391,635; Sept. 20; v. 290; p. 573.
- Hair-cutter. W. G. Muspratt. No. 1,382,377; June 21; v. 287; p. 500.
- Hair-cutter. E. E. Ziegler. No. 1,385,938; July 26; v. 28; p. 758.
- Hair-cutters, Taper-cut mechanism for. I. S. Kaufman. No. 1,364,559; Jan. 4; v. 282; p. 99.
- Hair-cutting device. W. H. Stahr. No. 1,378,911; May 24; v. 286; p. 666.
- Hair-cutting device. F. J. Tillman. No. 1,393,053; Oct. 11.
- Hair-cutting gage. C. R. Shafer. No. 1,390,465; Sept. 13; v. 290; p. 273.
- Hair-cutting gage. C. O. Williams. No. 1,381,381; June 14; v. 287; p. 253.
- Hair-cutting implement. M. B. Behrman. No. 1,395,334; Nov. 1.
- Hair-cutting machine. H. L. Mendal. No. 1,387,604; Aug. 16; v. 289; p. 449.
- Hair-cutting machine, Automatic. E. V. N. Tomasulo. No. 1,380,272; May 31; v. 286; p. 996.
- Hair-cutting machine, Barber's. E. V. N. Tomasulo. No. 1,366,975; Feb. 1; v. 283; p. 19.
- Hair, Device for waving. A. Kietz. No. 1,393,444; Oct. 11.
- Hair-dresser's undulating device. G. Begas. No. 1,377,655; May 10; v. 286; p. 300.
- Hair-dressing appliance. R. S. M. Schroeder. No. 1,394,943; Oct. 25.
- Hair-dressing device. L. M. Wessa. No. 1,386,296; Aug. 2; v. 289; p. 66.
- Hair-drier. C. E. Martin. No. 1,364,777; Jan. 4; v. 282; p. 141.
- Hair-drier. W. Zippel. No. 1,370,395; Mar. 1; v. 284; p. 121.
- Hair foundation. R. and G. Scheanblum. No. 1,365,548; Jan. 11; v. 282; p. 334.
- Hair foundation and switch-attaching device, Combined. R. and G. Scheanblum. No. 1,365,549; Jan. 11; v. 282; p. 334.
- Hair-holder. A. A. MacIntyre. No. 1,370,142; Mar. 1; v. 284; p. 73.
- Hair-marceling apparatus. T. C. Russell. No. 1,397,332; Nov. 15.
- Hair, Method of and means for treating the. H. H. Seyl. No. 1,386,134; Aug. 2; v. 289; p. 34.
- Hair-net. D. Wolf. No. 1,379,236; May 24; v. 286; p. 727.
- Hair-net-display device. L. A. Stamstag. No. 1,376,782; May 3; v. 286; p. 76.
- Hair-net holder. J. M. Golden. No. 1,375,381; Apr. 19; v. 285; p. 490.
- Hair-ondulator. C. Fuchs-Maurer. No. 1,398,637; Nov. 29.
- Hair ornament. A. L. Preston. No. 1,374,524; Apr. 12; v. 285; p. 263.
- Hair-ornament attachment. I. Goldman. No. 1,390,778; Sept. 13; v. 290; p. 337.
- Hair-restorer. T. E. Silvera. No. 1,378,731; May 17; v. 286; p. 559.
- Hair-retaining device. C. Silverman. No. 1,390,825; Sept. 13; v. 290; p. 346.
- Hair-ribbon holder. F. P. Andresen. No. 1,367,172; Feb. 1; v. 283; p. 58.
- Hair-roll. I. Goldman. No. 1,364,366; Jan. 4; v. 282; p. 62.
- Hair-singeing machine. W. A. Ross. No. 1,378,137; May 17; v. 286; p. 446.
- Hair-singer, Electric. L. J. Dumaine. No. 1,370,524; Mar. 8; v. 284; p. 190.
- Hair-singer, Electric. J. P. McMahon. No. 1,366,196; Jan. 18; v. 282; p. 499.



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- Hair-support. B. E. Beadle. No. 1,366,688; Jan. 25; v. 282; p. 641.
- Hair, Tonic and dressing for the human. M. Sanders. No. 1,368,758; Feb. 15; v. 283; p. 472.
- Hair-treating device. Z. Popin. No. 1,376,358; Apr. 26; v. 285; p. 709.
- Hair-waver. E. E. Bardsley. No. 1,365,079; Jan. 11; v. 282; p. 242.
- Hair-waver. I. Hoffman. No. 1,380,064; May 31; v. 286; p. 958.
- Hair-waver. H. Natkiel. No. 1,396,708; Nov. 8.
- Hair-waver. H. E. Pratt. No. 1,399,874; Dec. 13.
- Hair-waver. A. Schärer. No. 1,395,774; Nov. 1.
- Hair-waver. C. Shepard. No. 1,386,371; Aug. 2; v. 289; p. 80.
- Hair-waver. H. M. Siegel. No. 1,355,797; July 26; v. 288; p. 730.
- Hair-waver. B. A. Sterling. No. 1,384,166; July 12; v. 288; p. 237.
- Hair-waver. G. W. Weaver. No. 1,369,994; Mar. 1; v. 284; p. 46.
- Hair waver and curler. L. Berkovl. No. 1,392,812; Oct. 4.
- Hair waving and drying apparatus. H. and H. Jacobs. No. 1,380,803; June 7; v. 287; p. 92.
- Hair waving and drying attachment. H. and H. Jacobs. No. 1,369,973; Mar. 1; v. 284; p. 42.
- Hair-waving apparatus. C. Nessler. No. 1,400,370; Dec. 13.
- Hair-waving comb. H. and H. Jacobs. No. 1,369,974; Mar. 1; v. 284; p. 42.
- Hair-waving device. S. B. Tusis. No. 1,377,943; May 10; v. 286; p. 357.
- Hair-waving device, Electrically-heated. M. J. Cully. No. 1,378,012; May 17; v. 286; p. 421.
- Hair-waving heater. F. and G. Lantieri. No. 1,379,026; May 24; v. 286; p. 687.
- Hair-waving process and device. W. Szlányi. No. 1,400,637; Dec. 20.
- Hair-waving tube. F. and G. Lantieri. No. 1,379,027; May 24; v. 286; p. 688.
- Hair, wool, and furs, Improving. A. O. Trostel. No. 1,371,951; Mar. 15; v. 284; p. 528.
- Hair, wool, and other animal fiber, and the product so produced, Mineralizing. A. O. Trostel. No. 1,394,655; Oct. 25.
- Hairpin. A. Y. S. Album. No. 1,390,856; Sept. 13; v. 290; p. 352.
- Hairpin. C. A. Dies. No. 1,377,408; May 10; v. 286; p. 253.
- Hairpin. R. L. Gray. No. 1,382,353; June 21; v. 287; p. 496.
- Hairpin. A. L. Gross. No. 1,371,759; Mar. 15; v. 284; p. 492.
- Hairpin. A. W. Hanke. No. 1,371,086; Mar. 8; v. 284; p. 298.
- Hairpin. C. M. Harrington. No. 1,367,874; Feb. 8; v. 283; p. 253.
- Hairpin. W. F. Peet. No. 1,383,016; June 28; v. 287; p. 676.
- Hairpin. A. D. E. Sissions. No. 1,371,399; Mar. 15; v. 284; p. 422.
- Hairpin. C. B. Sitz. No. 1,392,711; Oct. 4.
- Hairpin. H. H. Styll. No. 1,368,858; Feb. 15; v. 283; p. 491.
- Hairpin. E. M. Sutherland. No. 1,377,859; May 10; v. 286; p. 340.
- Hairpin. F. Walker. No. 1,392,374; Oct. 4.
- Hairpin. G. W. Weber. No. 1,374,264; Apr. 12; v. 285; p. 212.
- Hairpin. I. N. Zeller. No. 1,389,924; Sept. 6; v. 290; p. 74.
- Hairpin-package. J. Waldes. No. 1,391,288; Sept. 20; v. 290; p. 502.
- Hairpins, combs, &c., Retaining means for. L. J. Rhein and R. A. Rehrauer. No. 1,397,904; Nov. 22.
- Hairpins, combs, &c., Slidable retaining means for. L. J. Rhein and R. A. Rehrauer. No. 1,378,134; May 17; v. 286; p. 445.
- Hairpins, Packing-machine for. H. P. Smith. No. 1,378,626; May 17; v. 286; p. 538.
- Half-tone screen. C. L. A. Brasseur. No. 1,374,813; Apr. 12; v. 285; p. 318.
- Halogenation of anthraquinone derivatives. F. W. Atack and G. Robertson. No. 1,401,125; Dec. 27.
- Halogens, Absorbing. C. W. Jones. No. 1,386,117; Aug. 2; v. 289; p. 31.
- Halter, Rope-shipping. C. N. McClintock. No. 1,374,087; Apr. 5; v. 285; p. 138.
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- Hams, Apparatus for molding. R. Roth and B. Ritthamer. No. 1,364,411; Jan. 4; v. 282; p. 71.
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- Hammer. E. F. Busse. No. 1,387,920; Aug. 16; v. 289; p. 512.
- Hammer. L. Dickinson. No. 1,383,452; July 5; v. 288; p. 41.
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- Hammer. E. H. Galligan. No. 1,365,758; Jan. 18; v. 282; p. 418.
- Hammer. J. D. Hardy. No. 1,386,780; Aug. 9; v. 289; p. 233.
- Hammer. L. Mayer. No. 1,386,891; Aug. 9; v. 289; p. 256.
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- Hammer and hatchet, Combination. S. Noseworthy. No. 1,383,232; June 28; v. 287; p. 717.
- Hammer-board. H. Terhune. No. 1,388,671; Aug. 23; v. 289; p. 717.
- Hammer-drill. W. T. Ayer. No. 1,368,470; Feb. 15; v. 283; p. 416.
- Hammer-drill. H. V. Haight. No. 1,391,629; Sept. 20; v. 290; p. 571.
- Hammer, Drop-. L. G. Bayrer. No. 1,393,073; Oct. 11.
- Hammer, Drop-. O. R. Clark and C. H. Franklin. No. 1,393,501; Oct. 11.
- Hammer, Drop-. W. W. Stoler. No. 1,380,326; May 31; v. 286; p. 1007.
- Hammer, Electric. F. W. Davey. No. 1,377,562; May 10; v. 286; p. 282.
- Hammer for pulverizers. J. K. Blum. No. 1,366,512; Jan. 25; v. 282; p. 606.
- Hammer, Glazier's. F. R. Chandlee. No. 1,390,498; Sept. 13; v. 290; p. 280.
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- Hammer, Piano-. C. J. and W. J. Pfriemer. No. 1,365,340; Jan. 11; v. 282; p. 297.
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- Hammer, Pneumatic. C. H. Haeseler. No. 1,372,348; Mar. 22; v. 284; p. 661.
- Hammer, Pneumatic riveting-. J. H. Way. No. 1,364,165; Jan. 4; v. 282; p. 23.
- Hammer, Power-. G. Forde. No. 1,394,722; Oct. 25.
- Hammer, Power-. E. F. Karlson. No. 1,400,166; Dec. 13.
- Hammer, Rotary. W. F. Trotter. No. 1,366,850; Jan. 25; v. 282; p. 673.
- Hammer, Sleet-. J. N. Duncan. No. 1,380,544; June 7; v. 287; p. 42.
- Hammer-testing machine. T. Olsen. No. 1,375,604; Apr. 19; v. 285; p. 532.
- Hammers, Nail-holder for. A. Salomaa. No. 1,379,838; May 31; v. 286; p. 915.
- Hammers, Support for pneumatic. N. Basso. No. 1,381,535; June 14; v. 287; p. 282.
- Hammering-machine. J. Ledwinka. No. 1,385,011; July 19; v. 288; p. 494.
- Hammock. P. B. Bebry. No. 1,397,201; Nov. 15.
- Hammock. F. Goddard. No. 1,400,049; Dec. 13.
- Hammock. A. Melniker. No. 1,389,682; Sept. 6; v. 290; p. 24.
- Hammock. H. Mintz. No. 1,387,801; Aug. 16; v. 289; p. 490.
- Hammock and knapsack, Combined. S. Wester. No. 1,380,167; May 31; v. 286; p. 977.
- Hammock, Bath-. H. A. Edmonds and F. H. Joels. No. 1,369,638; Feb. 22; v. 283; p. 682.
- Hammock, Couch-. G. F. Sisbower and L. E. Pittoni. No. 1,369,563; Feb. 22; v. 583; p. 667.
- Hammock, Couch-. G. F. Sisbower and L. E. Pittoni. No. 1,401,286; Dec. 27.
- Hammock, Couch-. L. Steinfeld. No. 1,372,785; Mar. 29; v. 284; p. 787.
- Hammock-support. L. I. Beckwith. No. 1,396,498; Nov. 8.
- Hammocks, Headrest for. H. Mintz. No. 1,391,964; Sept. 27; v. 290; p. 713.
- Hand and wrist protector. A. Suhr. No. 1,377,103; May 3; v. 286; p. 138.
- Hand, Artificial. D. M. Anderson. No. 1,377,956; May 10; v. 286; p. 359.
- Hand, Artificial. R. F. Armstrong. No. 1,375,809; Apr. 26; v. 285; p. 603.
- Hand, Artificial. F. C. Henning. No. 1,365,692; Jan. 18; v. 282; p. 401.
- Hand, Artificial. W. E. Luke. No. 1,380,664; June 7; v. 287; p. 64.
- Hand, Artificial. P. M. McKay. No. 1,390,802; Sept. 13; v. 290; p. 341.
- Hand, Artificial laboring-. M. Bauman. No. 1,378,578; May 17; v. 286; p. 529.
- Hand-brake. R. E. Jackson. No. 1,396,119; Nov. 8.
- Hand-brake. J. F. O'Connor. No. 1,369,534; Feb. 22; v. 283; p. 661.
- Hand-brake. J. F. O'Connor. No. 1,397,230; Nov. 15.
- Hand-brake mechanism, Compound. E. Passon. Nos. 1,399,075-6; Dec. 6.
- Hand-brake, Self-cleaning. O. V. Parsons. No. 1,371,109; Mar. 8; v. 284; p. 302.
- Hand-case for ladies. O. Dingfeld. No. 1,386,848; Aug. 9; v. 289; p. 248.
- Hand-covering. E. Kramer. No. 1,387,728; Aug. 16; v. 289; p. 475.
- Hand-fired furnace. W. Hotchkiss and J. E. W. Sheehan. No. 1,397,422; Nov. 15.
- Hand-grasp. E. Willett. No. 1,376,126; Apr. 26; v. 285; p. 665.
- Hand-guard. G. T. Epling. No. 1,397,624; Nov. 22.



*Alphabetical list of inventions—Continued.*

- Hand-guard. C. Hinze. No. 1,369,810; Mar. 1; v. 284; p. 11.
- Hand-lamp-switch. E. Alschuler. No. 1,384,548; July 12; v. 288; p. 317.
- Hand-mold. E. J. Kukac. No. 1,382,294; June 21; v. 287; p. 484.
- Hand-operated press. G. E. Brittain. No. 1,366,516; Jan. 25; v. 282; p. 606.
- Hand-protection device. M. C. Hamblet. No. 1,391,108; Sept. 20; v. 290; p. 466.
- Hand-protector. J. Butch. No. 1,371,602; Mar. 15; v. 284; p. 462.
- Hand-rail and manufacturing same. E. Johansson. No. 1,372,819; Mar. 29; v. 284; p. 794.
- Hand-wheel. H. W. Dover. No. 1,388,806; Aug. 23; v. 289; p. 744.
- Hand-operated implement. H. S. Hall. No. 1,399,113; Dec. 6.
- Hand-press and bottle-capping apparatus. A. Krus. No. 1,400,556; Dec. 20.
- Handbag. A. H. Christie. No. 1,399,377; Dec. 6.
- Handbag. M. Diamond. No. 1,397,369; Nov. 15.
- Handbag. G. H. Metternich. No. 1,401,426; Dec. 27.
- Handbag. H. Pichel. No. 1,381,226; June 14; v. 287; p. 225.
- Handbag. H. B. Rowan. No. 1,367,207; Feb. 1; v. 283; p. 65.
- Handbag-handle. H. E. Walter. No. 1,374,126; Apr. 5; v. 285; p. 145.
- Handbags and pocketbooks. Frame for. H. Meltezer and L. Karron. No. 1,376,824; May 3; v. 286; p. 84.
- Handbags and the like. Clasp-fastener for. E. C. Schroeder. No. 1,396,942; Nov. 15.
- Handbags. Fastener for. M. Sloane. No. 1,392,712; Oct. 4.
- Handbags. Lock-latch for. B. J. Richardson and C. S. Barber. No. 1,392,967; Oct. 11.
- Handbags or vanity-cases. Fastening device for ladies'. S. W. Shepard. No. 1,375,114; Apr. 19; v. 285; p. 439.
- Handbags. Vanity-case for. M. Wiener. No. 1,368,082; Feb. 8; v. 283; p. 291.
- Handhold-hanger. H. G. Lewis and W. S. Mayer. No. 1,373,746; Apr. 5; v. 285; p. 70.
- Handlamp. G. D. Gallagher. No. 1,396,828; Nov. 15.
- Handlamp. A. P. Paine. No. 1,398,736; Nov. 29.
- Handlamp. Battery-. L. Maisel. No. 1,397,646; Nov. 22.
- Handlamp. Electric. B. A. Little. No. 1,394,101; Oct. 18.
- Handlamp-switch. G. D. Gallagher. Nos. 1,396,829-30; Nov. 15.
- Handsaw. J. C. Dietrich. No. 1,399,009; Dec. 6.
- Handle: *See—*
- |                              |                                  |
|------------------------------|----------------------------------|
| Angle-cock handle.           | Hoe-handle.                      |
| Automobile-door handle.      | Pressed-steel ball crank-handle. |
| Basket-handle.               |                                  |
| Bit-brace handle.            | Repair-handle.                   |
| Brake-handle.                | Reversible brush-handle.         |
| Casket-handle.               | Sadiron-handle.                  |
| Coffin-handle.               | Saw-handle.                      |
| Crank-handle.                | Tool-handle.                     |
| Detachable handle.           | Trowel-handle.                   |
| Detachable valve-handle.     | Try-square handle.               |
| Electric-switch handle.      | Umbrella-handle.                 |
| Extension adjustable handle. | Valve-handle.                    |
| File-handle.                 | Vehicle-door handle.             |
| Flower-pot handle.           | Wheelbarrow-handle.              |
| Handbag-handle.              | Wrench-handle.                   |
- Handle. G. L. Ehrhardt. No. 1,401,896; Dec. 27.
- Handle. W. J. Hotchkiss. No. 1,379,020; May 24; v. 286; p. 686.
- Handle. J. S. Lapham. No. 1,383,826; July 5; v. 288; p. 118.
- Handle. H. G. Thompson. No. 1,374,251; Apr. 12; v. 285; p. 209.
- Handle. Adjustable extension-. G. L. E. Klingbell. No. 1,396,850; Nov. 15.
- Handle and blade connection. J. S. Surbaugh. No. 1,374,336; Apr. 12; v. 285; p. 226.
- Handle and latch operating device. W. K. Earle. No. 1,383,088; June 28; v. 287; p. 690.
- Handle and making same. A. V. Gullborg. No. 1,365,985; Jan. 18; v. 282; p. 459.
- Handle extension. A. C. Beeman. No. 1,389,477; Aug. 30; v. 289; p. 932.
- Handle-lock. J. Goodman. No. 1,372,168; Mar. 22; v. 284; p. 626.
- Handle member. P. A. Geier and F. E. Robertson. No. 1,397,682; Nov. 22.
- Handles. Die and process for making cup-. J. Benton. No. 1,394,465; Oct. 18.
- Handles. Making. H. G. Carlson. No. 1,397,360; Nov. 15.
- Handles. Reinforcing or stay bolt for tool-. L. E. Webster. No. 1,369,995; Mar. 1; v. 284; p. 46.
- Handles. Retaining latch for. F. C. Davis. No. 1,379,085; May 24; v. 286; p. 698.
- Handling apparatus. Automatically-operating mechanical. A. G. Clapier. No. 1,376,317; Apr. 26; v. 285; p. 701.
- Handling articles. Mechanism for. C. C. Blake. No. 1,388,235; Aug. 23; v. 289; p. 631.
- Handling machines. Running, starting, and burning-in attachment for motor-. C. D. McConnell and J. M. Bryson. No. 1,382,659; June 28; v. 287; p. 608.
- Handling stain. Apparatus for. T. Lund. No. 1,391,395; Sept. 20; v. 290; p. 524.
- Handsaw. W. L. Jacques. No. 1,381,997; June 21; v. 287; p. 429.
- Hanger: *See—*
- |                               |                           |
|-------------------------------|---------------------------|
| Adjustable garment-hanger.    | Ham-hanger.               |
| Adjustable pipe-hanger.       | Handhold-hanger.          |
| Bedpost-hanger.               | Hat-hanger.               |
| Brake-hanger.                 | Laundry-hanger.           |
| Cable-hanger.                 | Paint-pot hanger.         |
| Cable-tie hanger.             | Picture-hanger.           |
| Centrifugal hanger.           | Pipe-hanger.              |
| Clothes-hanger.               | Railway-brake hanger.     |
| Coat-hanger.                  | Sash-hanger.              |
| Coat and trousers hanger.     | Shade and curtain hanger. |
| Collapsible garment-hanger.   | Shaft-hanger.             |
| Concrete-construction hanger. | Skirt-hanger.             |
| Curtain-hanger.               | Sliding-door hanger.      |
| Door-hanger.                  | Spotlight-hanger.         |
| Drapery-hanger.               | Storm-sash hanger.        |
| Eaves-trough hanger.          | Swing-hanger.             |
| Electric-lamp hanger.         | Trolley-hanger.           |
| Garment-hanger.               | Trolley-track hanger.     |
| Gutter-hanger.                | Trolley-wire hanger.      |
|                               | Vehicle-body hanger.      |
- Hanger. L. A. M. Hooyman. No. 1,382,509; June 21; v. 287; p. 526.
- Hanger. G. C. Hosch. No. 1,398,519; Nov. 29.
- Hanger. J. G. Payne. No. 1,369,706; Feb. 22; v. 283; p. 695.
- Hanger and adjuster. Door. E. G. Morin. No. 1,370,037; Mar. 1; v. 284; p. 53.
- Hanger-bracket. F. P. Zalevski and L. P. Iryshka. No. 1,382,709; June 28; v. 287; p. 618.
- Hanger. Centrifugal. H. H. Stephens. No. 1,365,290; Jan. 11; v. 282; p. 284.
- Hanging articles. Holder for. W. Westfeling. No. 1,386,480; Aug. 2; v. 289; p. 100.
- Hardening-machine. C. C. Jackman and R. S. Squire. No. 1,367,049; Feb. 1; v. 283; p. 33.
- Hardness of materials. Machine for testing the. D. C. Davis. No. 1,381,288; June 14; v. 287; p. 236.
- Harmonics. Means for suppressing. L. W. Chubb. No. 1,387,469; Aug. 16; v. 289; p. 422.
- Harness. J. C. Hankins. No. 1,401,600; Dec. 27.
- Harness. J. C. B. Köhler. No. 1,392,015; Sept. 27; v. 290; p. 724.
- Harness. M. C. T. Lamb. No. 1,389,882; Sept. 6; v. 290; p. 65.
- Harness attachment. C. J. Ferch. No. 1,372,411; Mar. 22; v. 284; p. 673.
- Harness. Child's safety-. E. L. Meredith. No. 1,369,456; Feb. 22; v. 283; p. 646.
- Harness-makers. Peening-tool for. C. H. Krengel. No. 1,382,093; June 21; v. 287; p. 447.
- Harness. Strap connection for. V. Rosenlof. No. 1,376,781; May 3; v. 286; p. 75.
- Harness. Trotting-. J. G. Sawyer. No. 1,366,497; Jan. 25; v. 282; p. 602.
- Harp. F. P. Kent. No. 1,401,158; Dec. 27.
- Harrow. J. Y. M. Comrie. No. 1,385,861; July 26; v. 288; p. 743.
- Harrow. W. Y. Elliott. No. 1,388,993; Aug. 30; v. 289; p. 836.
- Harrow. J. C. Faubion. No. 1,375,086; Apr. 19; v. 285; p. 433.
- Harrow. P. W. Green. No. 1,401,332; Dec. 27.
- Harrow. J. W. Harris. No. 1,383,942; July 5; v. 288; p. 142.
- Harrow. G. W. Holmes. No. 1,382,977; June 28; v. 287; p. 669.
- Harrow. M. E. Juopperi. No. 1,389,512; Aug. 30; v. 289; p. 939.
- Harrow. A. E. King. No. 1,373,618; Apr. 5; v. 285; p. 46.
- Harrow. W. O. Long. No. 1,394,030; Oct. 18.
- Harrow. F. J. Luedke. No. 1,384,474; July 12; v. 288; p. 301.
- Harrow. W. McConal. No. 1,387,008; Aug. 9; v. 289; p. 280.
- Harrow. E. W. McNabb. No. 1,397,104; Nov. 15.
- Harrow. E. R. Miller. No. 1,366,819; Jan. 25; v. 282; p. 667.
- Harrow. R. W. Payne. No. 1,386,584; Aug. 2; v. 289; p. 121.
- Harrow. C. K. Selfried. No. 1,390,169; Sept. 6; v. 290; p. 123.
- Harrow. A. A. Truman. No. 1,380,441; June 7; v. 287; p. 22.
- Harrows and cultivators. Attachment for. A. S. Rue. No. 1,365,276; Jan. 11; v. 282; p. 281.
- Harrow and drag. Convertible. J. W. Taylor. No. 1,395,459; Nov. 1.
- Harrow. Disk. J. F. Derksen. No. 1,368,706; Feb. 15; v. 283; p. 462.
- Harrow. Disk. L. H. Kaupke. No. 1,399,018; Dec. 6.
- Harrow. Leveling-. J. C. Bloomfield. No. 1,389,808; Sept. 6; v. 290; p. 50.
- Harrow lifting and clearing device. P. H. Thiel. No. 1,399,718; Dec. 6.
- Harrow or terracer. Disk. J. G. Barnes. No. 1,393,336; Oct. 11.



*Alphabetical list of inventions--Continued.*

- Harrow-point. W. D. Whitney. No. 1,400,118; Dec. 13.  
 Harrow. Revolving. H. J. Wilcox. No. 1,396,905; Nov. 15.  
 Harrow. Rotary. A. O. Jones. No. 1,377,586; May 10; v. 286; p. 286.  
 Harrow spindle and boxing. Disk. R. A. Press. No. 1,391,853; Sept. 27; v. 290; p. 690.  
 Harrow. Tandem disk. F. H. French. No. 1,386,858; Aug. 9; v. 289; p. 249.  
 Harrow. Tandem disk. F. H. French. No. 1,399,607; Dec. 6.  
 Harrow-tooth blade. J. N. Sheffield. No. 1,378,487; May 17; v. 286; p. 511.  
 Harrow with cleaning attachment. G. Borstad. No. 1,373,946; Apr. 5; v. 285; p. 111.  
 Harrows. Draft appliance for. J. Berger. No. 1,379,518; May 24; v. 286; p. 781.  
 Harrows. Draft-elevator for. J. A. Reimer. No. 1,399,999; Dec. 13.  
 Harrows. Wheel-guard for wheeled disk. W. H. C. Hamann, Jr. No. 1,388,814; Aug. 23; v. 289; p. 745.  
 Harrowing-machine. B. Mazuryk. No. 1,388,359; Aug. 23; v. 289; p. 657.  
 Harvester. R. Arluchi. No. 1,369,373; Feb. 22; v. 283; p. 630.  
 Harvester. F. Bartels. No. 1,369,376; Feb. 22; v. 283; p. 630.  
 Harvester. G. A. Farrell and C. Maul. No. 1,389,746; Sept. 6; v. 290; p. 37.  
 Harvester. C. Maul. No. 1,389,769; Sept. 6; v. 290; p. 42.  
 Harvester. O. T. Provine. No. 1,369,838; Mar. 1; v. 284; p. 16.  
 Harvester. P. A. Putnam. No. 1,390,813; Sept. 13; v. 290; p. 344.  
 Harvester and shocker. Peanut. G. O. Maulsby. No. 1,381,211; June 14; v. 287; p. 222.  
 Harvester attachment. B. W. Baker. No. 1,387,680; Aug. 16; v. 289; p. 464.  
 Harvester. Bean-. G. D. Carr. No. 1,392,113; Sept. 27; v. 290; p. 743.  
 Harvester. Bean-. G. B. Chamberlin. No. 1,375,565; Apr. 19; v. 285; p. 525.  
 Harvester. Bean-. H. H. Swindell. No. 1,401,829; Dec. 27.  
 Harvester. Beet-. T. H. Dolling. No. 1,388,901; Aug. 30; v. 289; p. 836.  
 Harvester. Beet-. O. Frankman. No. 1,366,645; Jan. 25; v. 282; p. 633.  
 Harvester. Beet-. R. Moreschini. No. 1,366,477; Jan. 25; v. 282; p. 599.  
 Harvester. Beet-. F. Slathar. No. 1,378,427; May 17; v. 286; p. 500.  
 Harvester. Beet-. J. E. Wyckoff. No. 1,366,997; Feb. 1; v. 283; p. 23.  
 Harvester. Beet-. J. E. Wyckoff. No. 1,390,663; Sept. 13; v. 290; p. 314.  
 Harvester-binders. Shocker attachment for. J. H. Keown. No. 1,371,902; Mar. 15; v. 284; p. 519.  
 Harvester. Cane-. N. K. Lyman. No. 1,383,833; July 5; v. 288; p. 119.  
 Harvester. Cane-. P. T. Woodland. No. 1,365,213; Jan. 11; v. 282; p. 269.  
 Harvester. Combined beet-. L. Adams. No. 1,390,261; Sept. 13; v. 290; p. 233.  
 Harvester. Corn-. H. R. Holmes. No. 1,401,781; Dec. 27.  
 Harvester. Cotton-. B. Cannon. No. 1,400,522; Dec. 20.  
 Harvester. Cotton-. G. S. Knox. No. 1,395,644; Nov. 1.  
 Harvester. Cotton-. W. F. Lockwood, B. H. Scott, and W. G. Royal. No. 1,384,265; July 12; v. 288; p. 258.  
 Harvester. Cotton-. J. T. Stanton. No. 1,373,269; Mar. 29; v. 284; p. 883.  
 Harvester for Egyptian corn, milo maize, and the like. R. A. Botts. No. 1,370,405; Mar. 1; v. 284; p. 123.  
 Harvester for peas, beans, or the like. S. Roosa. No. 1,371,519; Mar. 15; v. 284; p. 446.  
 Harvester-machine. J. A. Kohlruss. No. 1,377,204; May 10; v. 286; p. 213.  
 Harvester. Onion-. J. Bailey. No. 1,386,222; Aug. 2; v. 289; p. 52.  
 Harvester. Peanut-. S. C. May. No. 1,375,258; Apr. 19; v. 285; p. 466.  
 Harvester-pitman. M. C. Hoff. No. 1,399,861; Dec. 13.  
 Harvester. Power-driven stripper or header. J. O. Brook. No. 1,374,424; Apr. 12; v. 285; p. 243.  
 Harvester-reel. C. F. Kocher. No. 1,365,503; Jan. 11; v. 282; p. 325.  
 Harvester-thresher machines. Header attachment for. W. A. Morris. No. 1,373,347; Mar. 29; v. 284; p. 899.  
 Harvester-threshers. Guard-finger for. B. R. Benjamin. No. 1,397,942; Nov. 22.  
 Harvesters. Bundle-carrier for. C. W. Robinson and E. Baseman. No. 1,388,306; Aug. 23; v. 289; p. 646.  
 Harvesters. Comb of. C. and W. H. Bauert. No. 1,368,014; Feb. 8; v. 283; p. 278.  
 Harvesters. Cutter for. L. D. Farmley. No. 1,370,352; Mar. 1; v. 284; p. 113.  
 Harvesters. Grain-hopper attachment for. W. C. Helyer. No. 1,376,435; May 3; v. 286; p. 11.  
 Harvesters. Plow for potato-. C. J. Cummings. No. 1,371,226; Mar. 15; v. 284; p. 387.  
 Harvesters, tractors, &c., Tandem hitch mechanism for. W. and R. A. Caswell. No. 1,365,376; Jan. 11; v. 282; p. 300.  
 Harvesting and spreading machines. Hemp. L. Holland-Letz. No. 1,385,917; July 26; v. 288; p. 754.  
 Harvesting and windrowing machine. Cane. H. O. Scranton. No. 1,365,955; Jan. 18; v. 282; p. 453.  
 Harvesting-bag. J. L. Kiley and R. E. Lucas. No. 1,383,956; July 5; v. 288; p. 144.  
 Harvesting-machine. W. F. de Brandt. No. 1,372,282; Mar. 22; v. 284; p. 649.  
 Harvesting-machine. W. F. de Brandt. No. 1,372,283; Mar. 22; v. 284; p. 649.  
 Harvesting-machine. H. W. Churchman and J. N. White. No. 1,367,861; Feb. 8; v. 283; p. 251.  
 Harvesting machine. Beet-. F. W. Knowles. No. 1,401,413; Dec. 27.  
 Harvesting machine, Cane-. R. A. Mayer. No. 1,392,258; Sept. 27; v. 290; p. 772.  
 Harvesting machine, Cranberry-. L. A. Hayden. No. 1,371,306; Mar. 15; v. 284; p. 403.  
 Harvesting machine, Motor-driven beet-. O. Frankman. No. 1,371,360; Mar. 15; v. 284; p. 414.  
 Harvesting machine, Pea-vine-. P. A. and A. Reinbold. No. 1,373,832; Apr. 5; v. 285; p. 88.  
 Harvesting machine, Peanut-. J. P. Fields. No. 1,375,578; Apr. 19; v. 285; p. 527.  
 Harvesting machine, Salt-. G. A. Archer. No. 1,377,999; May 17; v. 286; p. 419.  
 Harvesting machines. Beet-topping attachment for beet-. O. P. Combest. No. 1,379,530; May 24; v. 286; p. 783.  
 Harvesting machines. Gathering mechanism for corn-. C. Dueker. No. 1,368,028; Feb. 8; v. 283; p. 281.  
 Harvesting-machines. Vine-lifting attachment for. J. E. Conklin. No. 1,388,407; Aug. 23; v. 289; p. 666.  
 Harvesting-machinery. Hitch for. M. O. Henderson. No. 1,375,963; Apr. 26; v. 285; p. 633.  
 Hasp. J. D. Harrell. No. 1,377,344; May 10; v. 286; p. 242.  
 Hasp. J. D. Haslett. No. 1,371,087; Mar. 8; v. 284; p. 299.  
 Hasp. L. Kules. No. 1,389,450; Aug. 30; v. 289; p. 927.  
 Hasp. G. S. Olson. No. 1,377,426; May 10; v. 286; p. 257.  
 Hasp. C. D. Reeve. No. 1,401,491; Dec. 27.  
 Hasp and latch. C. J. Minton and C. H. Holmes. No. 1,399,640; Dec. 6.  
 Hasp and staple device. D. Russakov. No. 1,369,937; Mar. 1; v. 284; p. 35.  
 Hat. N. W. Colgrove. No. 1,378,444; May 17; v. 286; p. 503.  
 Hat. M. D. Goodrick, (now by marriage M. D. Reynolds.) No. 1,369,971; Mar. 1; v. 283; p. 41.  
 Hat and fastener for same. B. I. Eaddy. No. 1,387,694; Aug. 16; v. 289; p. 467.  
 Hat and making the same. Filled Bangkok. C. S. Katz. No. 1,391,546; Sept. 20; v. 290; p. 555.  
 Hat-brim stiffener. J. Parmley. No. 1,378,977; May 24; v. 286; p. 678.  
 Hat-case. W. J. Bruce and F. M. Worthington. No. 1,388,323; Aug. 23; v. 289; p. 649.  
 Hat-cleaning machine. N. Benenati. No. 1,386,230; Aug. 2; v. 289; p. 54.  
 Hat-clipping machines. Attachment for. J. S. Leibowitz. No. 1,375,597; Apr. 19; v. 285; p. 531.  
 Hat-conformator. D. Freedline. No. 1,383,922; July 5; v. 288; p. 137.  
 Hat. Convertible. B. Radley. No. 1,385,494; July 26; v. 288; p. 669.  
 Hat-crowns. Form for. H. B. Goldstein. No. 1,381,915; June 21; v. 287; p. 414.  
 Hat-creaser-retaining device. B. Reichard. No. 1,367,205; Feb. 1; v. 283; p. 24.  
 Hat-extender. N. Koyomjian. No. 1,391,123; Sept. 20; v. 290; p. 469.  
 Hat-fastener. R. C. Fritz. No. 1,376,930; May 3; v. 286; p. 105.  
 Hat-fastening device. A. Uhl. No. 1,393,186; Oct. 11.  
 Hat-form springs. Fastener for. C. L. Gearhart. No. 1,369,418; Feb. 22; v. 283; p. 638.  
 Hat-hanger. C. P. Miller. No. 1,390,372; Sept. 13; v. 290; p. 254.  
 Hat-holder. J. S. Allen. No. 1,379,605; May 31; v. 286; p. 871.  
 Hat-lining. B. Harowitz. No. 1,374,737; Apr. 12; v. 285; p. 304.  
 Hat-lining. Adjustable. F. Grunig and M. L. Van Huel. No. 1,396,421; Nov. 8.  
 Hat lining or bandeau. Adjustable. M. L. Van Huel. No. 1,393,652; Oct. 11.  
 Hat-lining tips. Machinery for making. R. Bell. No. 1,385,240; July 19; v. 288; p. 541.  
 Hat-protector. J. A. Fisher. No. 1,397,246; Nov. 15.  
 Hat-protector. J. Maguire. No. 1,386,270; Aug. 2; v. 290; p. 61.  
 Hat-protector. J. Maguire. No. 1,386,271; Aug. 2; v. 289; p. 62.  
 Hat-protector. J. F. Schweizer-Caillaux. No. 1,373,713; Apr. 5; v. 285; p. 64.  
 Hat-protector. E. Turner. No. 1,368,864; Feb. 15; v. 283; p. 492.



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- Hat protector and envelop. Combined. F. W. Howard and G. B. Cannon, Jr. No. 1,375,511; Apr. 19; v. 285; p. 515.
- Hat-rack and coat-holder. J. W. Etchells. No. 1,383,611; July 5; v. 288; p. 73.
- Hat-retainer. E. Riccio. No. 1,373,351; Mar. 29; v. 284; p. 900.
- Hat-shaping apparatus. L. Stevens. No. 1,392,605; Oct. 4.
- Hat-shaping device. J. C. Haslam. No. 1,395,106; Oct. 25.
- Hat-shaping device. A. G. Henkel. No. 1,392,828; Oct. 4.
- Hat, Soft. J. Josephs. No. 1,382,290; June 21; v. 287; p. 484.
- Hat, Sportsman's. F. W. Winch. No. 1,364,669; Jan. 4; v. 282; p. 120.
- Hat, Straw. R. C. Montgomery. No. 1,391,750; Sept. 27; v. 290; p. 669.
- Hat stretcher and shaper. D. Freedline. No. 1,380,201; May 31; v. 286; p. 983.
- Hat-stretching machine. J. Jonas. No. 1,371,247; Mar. 15; v. 284; p. 382.
- Hat, Summer-. S. Sakagami. No. 1,390,818; Sept. 13; v. 290; p. 345.
- Hat-trimming machine. L. O. Bouchard. No. 1,379,078; May 24; v. 286; p. 696.
- Hats, Cushion for. M. E. Westrope. No. 1,377,107; May 3; v. 286; p. 139.
- Hats, Device for retaining the shape of. F. L. Rapson. No. 1,400,769; Dec. 20.
- Hats, Manufacture of. L. Herman, Jr. No. 1,379,341; May 24; v. 286; p. 747.
- Hats, Manufacturing straw. J. Stebe. No. 1,373,210; Mar. 29; v. 284; p. 872.
- Hats, Mirror and comb holder for. G. Peszternak. No. 1,398,273; Nov. 29.
- Hats, Process and apparatus for making natural-edge beaver. J. L. Kaufman. No. 1,389,364; Aug. 30; v. 289; p. 910.
- Hats, Reproducing. Semmig, *née* Teich. No. 1,401,569; Dec. 27.
- Hats, Shaper and form-holder for. P. Brand. No. 1,372,668; Mar. 29; v. 284; p. 764.
- Hatband. O. T. Dehle. No. 1,366,890; Jan. 25; v. 282; p. 681.
- Hatbox, Collapsible portable. A. Hirschwitz. No. 1,384,065; July 12; v. 288; p. 216.
- Hatbox-making machine. J. K. Jacobson. No. 1,367,479; Feb. 1; v. 283; p. 119.
- Hatpin. J. B. Fitzpatrick. No. 1,400,147; Dec. 13.
- Hatpin. E. B. Flaherty. No. 1,394,297; Oct. 18.
- Hatpin. W. H. Frederick. No. 1,386,328; Aug. 2; v. 289; p. 73.
- Hatpin. C. E. Rombough. No. 1,370,559; Mar. 8; v. 284; p. 198.
- Hatpin. B. Warchalowski. No. 1,370,388; Mar. 1; v. 284; p. 120.
- Hatpin-fastener. L. G. Hurd. No. 1,365,591; Jan. 11; v. 282; p. 342.
- Hatpin-fastener. L. G. Hurd. No. 1,368,154; Feb. 8; v. 283; p. 306.
- Hatpin-fastener. L. G. Hurd. No. 1,394,304; Oct. 18.
- Hatpin-guard. J. Lucius. No. 1,397,531; Nov. 22.
- Hatpin, Safety-. J. Wiener. No. 1,382,039; June 21; v. 287; p. 437.
- Hatrack. R. V. Behning. No. 1,387,341; Aug. 9; v. 289; p. 346.
- Hatch-cover and battening-down clamp. J. Peterson. No. 1,364,800; Jan. 4; v. 282; p. 145.
- Hatch-ventilators, Raising and lowering device for. G. W. Nordstrom. No. 1,385,574; July 26; v. 288; p. 685.
- Haulage apparatus. C. T. Denham. No. 1,396,627; Nov. 8.
- Haulage or straining purposes, Device for. A. A. Quick. No. 1,381,011; June 7; v. 287; p. 132.
- Hay-bunching machine. E. E. Juchter. No. 1,381,420; June 14; v. 287; p. 260.
- Hay-carrier. W. Gutenkunst. No. 1,394,729; Oct. 25.
- Hay-distributor, Rotary. F. D. Tellin. No. 1,367,572; Feb. 8; v. 283; p. 195.
- Hay-elevator. J. J. Wallace. No. 1,371,456; Mar. 15; v. 284; p. 434.
- Hay-fork-track openings, Closure for. J. H. Johnson. No. 1,375,391; Apr. 19; v. 285; p. 492.
- Hay-loader. S. H. Garber. No. 1,365,392; Jan. 11; v. 282; p. 303.
- Hay-perforating device. O. D. Nolen. No. 1,376,568; May 3; v. 286; p. 36.
- Hay-press. W. E. McCorquodale. No. 1,401,715; Dec. 27.
- Hay-press and threshers, Self-feeder for. E. O. Stancliff. No. 1,400,008; Dec. 13.
- Hay rack and unloader. C. J. Hokanson. No. 1,368,931; Feb. 15; v. 283; p. 505.
- Hay-rack carriage, Wagon-. J. S. Myers. No. 1,397,446; Nov. 15.
- Hay-rake. W. F. Mottier. No. 1,401,274; Dec. 27.
- Hay-rake, Self-dumping. J. L. Leonard. No. 1,384,264; July 12; v. 288; p. 258.
- Hay-slings, Supporting means for. G. S. Sowers. No. 1,398,472; Nov. 29.
- Hay-stacking apparatus. G. P. Hoy. No. 1,371,897; Mar. 15; v. 284; p. 518.
- Hay stower or slide, Revolving. F. W. Leighton. No. 1,398,437; Nov. 29.
- Hay-sweep cleaner. Automatic. L. J. Jenson. No. 1,371,423; Mar. 15; v. 284; p. 427.
- Hay-tedder. C. B. Oklitz. No. 1,377,271; May 10; v. 286; p. 226.
- Hayrack-fastener. H. A. Smith. No. 1,400,834; Dec. 20.
- Hayrack-lifter. R. Kane. No. 1,398,460; Nov. 29.
- Haystacker. A. L. Veeder. No. 1,392,991; Oct. 11.
- Head and valve-housing, Multiple. P. W. Murphy. No. 1,374,315; Apr. 12; v. 285; p. 221.
- Head-gear, Safety. L. S. Baier. No. 1,391,753; Sept. 27; v. 290; p. 670.
- Head-protector. C. Horan. No. 1,375,845; Apr. 26; v. 285; p. 610.
- Headress. G. M. Sharp. No. 1,394,366; Oct. 18.
- Headers, Attachment for broadcast. F. M. Price. No. 1,390,159; Sept. 6; v. 290; p. 121.
- Headers, chambers, &c., Attaching tubes to. H. P. Bray. No. 1,384,989; July 19; v. 288; p. 489.
- Headgear for athletes. H. M. Pierce. No. 1,373,446; Apr. 5; v. 285; p. 13.
- Heading and forging machinery, presses, nut machinery, and the like, Crank connection for heading-slides of. W. L. Clouse. No. 1,366,361; Jan. 25; v. 282; p. 575.
- Heading and forging machines, Automatic release mechanism for. W. L. Clouse. No. 1,382,625; June 28; v. 287; p. 601.
- Heading hogsheads, Tool for. R. P. Watson. No. 1,384,650; July 12; v. 288; p. 339.
- Heading-machine. J. Peyser. No. 1,397,651; Nov. 22.
- Heading machines, Frame construction for metal-. A. H. Gaess. No. 1,372,133; Mar. 22; v. 284; p. 620.
- Heading-machines, Swivel-blocks for. H. P. Deely. No. 1,377,005; May 3; v. 286; p. 119.
- Heading-machines, Punch-transfer mechanism for. A. H. Gaess. No. 1,372,132; Mar. 22; v. 284; p. 619.
- Headlamp. E. P. Bone. No. 1,389,291; Aug. 30; v. 289; p. 895.
- Headlamp. J. A. Ritter. No. 1,393,573; Oct. 11.
- Headlight. C. H. Allen. No. 1,393,877; Oct. 18.
- Headlight. A. Ames, Jr. No. 1,367,682; Feb. 8; v. 283; p. 215.
- Headlight. R. B. Benjamin. No. 1,394,399; Oct. 18.
- Headlight. O. W. Blackett. No. 1,397,793; Nov. 22.
- Headlight. J. P. Culey. No. 1,399,378; Dec. 6.
- Headlight. M. J. Davis. No. 1,369,967; Mar. 1; v. 283; p. 41.
- Headlight. H. E. Ensor and J. Sampson. No. 1,397,803; Nov. 22.
- Headlight. D. H. Galbraith. No. 1,367,315; Feb. 1; v. 283; p. 86.
- Headlight. O. V. Greene. No. 1,364,107; Jan. 4; v. 282; p. 11.
- Headlight. H. F. Hammond. No. 1,379,182; May 24; v. 286; p. 717.
- Headlight. H. F. Hammond. No. 1,379,446; May 24; v. 286; p. 766.
- Headlight. P. J. Higgs. No. 1,400,820; Dec. 20.
- Headlight. E. E. Hillyer. No. 1,386,059; Aug. 2; v. 289; p. 20.
- Headlight. A. S. Limpert. No. 1,399,973; Dec. 13.
- Headlight. W. A. Lorenz. No. 1,376,447; May 3; v. 286; p. 13.
- Headlight. H. R. Lotz. No. 1,400,366; Dec. 13.
- Headlight. J. R. Moore. No. 1,398,973; Dec. 6.
- Headlight. T. W. Post. No. 1,376,575; May 3; v. 286; p. 37.
- Headlight. T. W. Post. No. 1,376,576; May 3; v. 286; p. 37.
- Headlight. E. G. Sylvester. No. 1,394,694; Oct. 25.
- Headlight. W. G. Wood. No. 1,395,026; Oct. 25.
- Headlight. W. G. Wood. No. 1,400,926; Dec. 20.
- Headlight apparatus, Automobile-. S. F. Arbuckle. No. 1,397,393; Nov. 15.
- Headlight attachment. A. F. de Vigan. No. 1,389,243; Aug. 30; v. 289; p. 885.
- Headlight, Automobile-. F. B. Black. No. 1,400,259; Dec. 13.
- Headlight, Automobile. H. F. Landon. No. 1,401,613; Dec. 27.
- Headlight, Automobile-. W. M. Horton. No. 1,367,318; Feb. 1; v. 283; p. 86.
- Headlight, Automobile-. O. A. Steutermann. No. 1,380,264; May 31; v. 286; p. 997.
- Headlight, Automobile-. H. R. J. Thompson. No. 1,367,439; Feb. 1; v. 283; p. 111.
- Headlight control, Automobile. J. E. Eagles. No. 1,374,912; Apr. 19; v. 285; p. 400.
- Headlight control, Vehicle-. J. W. White. No. 1,400,117; Dec. 13.
- Headlight construction, Tilting-. J. Z. Miller. No. 1,376,962; May 3; v. 286; p. 111.
- Headlight-dimmer. J. Gorman. No. 1,379,556; May 24; v. 286; p. 787.
- Headlight-dimmer. P. H. Letchford and G. H. Saltmarsh. No. 1,377,711; May 10; v. 286; p. 310.
- Headlight-dimmer. L. D. Rutter. No. 1,364,812; Jan. 4; v. 282; p. 148.
- Headlight, Dirigible. W. B. Bandy. No. 1,364,066; Jan. 4; v. 282; p. 3.



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- Headlight, Dirigible. J. J. Bavor. No. 1,373,706; Apr. 5; v. 285; p. 63.
- Headlight, Dirigible. G. Cox. No. 1,397,754; Nov. 22.
- Headlight, Dirigible. K. E. Davis. No. 1,389,493; Aug. 30; v. 289; p. 935.
- Headlight, Dirigible. H. D. Denson. No. 1,387,478; Aug. 16; v. 289; p. 424.
- Headlight, Dirigible. W. B. Duerst. No. 1,375,138; Apr. 19; v. 285; p. 444.
- Headlight, Dirigible. H. R. Freitag and C., Jr., and A. Hintz. No. 1,388,108; Aug. 16; v. 289; p. 549.
- Headlight, Dirigible. J. Glennon. No. 1,377,880; May 10; v. 286; p. 344.
- Headlight, Dirigible. H. M. Hale. No. 1,384,560; July 12; v. 288; p. 319.
- Headlight, Dirigible. K. A. Kendrick. No. 1,387,273; Aug. 9; v. 289; p. 330.
- Headlight, Dirigible. W. M. O. B. and N. S. Lawrence. No. 1,380,657; June 7; v. 287; p. 63.
- Headlight, Dirigible. G. F. Messer. No. 1,386,014; Aug. 2; v. 289; p. 10.
- Headlight, Dirigible. J. M. Rohrer. No. 1,398,802; Nov. 29.
- Headlight, Dirigible. W. A. Rutherford. No. 1,395,147; Oct. 25.
- Headlight, Dirigible. F. E. Shafer. No. 1,395,745; Nov. 1.
- Headlight, Dirigible automatic. I. F. Schaller. No. 1,386,957; Aug. 9; v. 289; p. 269.
- Headlight glass, Automobile. W. G. Schneider. No. 1,391,511; Sept. 20; v. 290; p. 548.
- Headlight for automobiles. B. Carlisle. No. 1,366,117; Jan. 18; v. 282; p. 484.
- Headlight for automobiles. H. W. Davis. No. 1,369,885; Mar. 1; v. 284; p. 25.
- Headlight for automobiles. L. L. Doray. No. 1,389,035; Aug. 30; v. 289; p. 844.
- Headlight for automobiles or other vehicles. P. R. Collier. No. 1,399,195; Dec. 6.
- Headlight for automobiles, Dirigible. M. Jackson. No. 1,381,124; June 14; v. 287; p. 205.
- Headlight for motor-vehicles, Dirigible. H. B. Page. No. 1,400,975; Dec. 20.
- Headlight for vehicles, Dirigible. C. F. Fletcher. No. 1,392,488; Oct. 4.
- Headlight for vehicles. C. D. Williams. No. 1,374,344; Apr. 12; v. 285; p. 227.
- Headlight-lens. O. E. Conklin. No. 1,399,749; Dec. 13.
- Headlight-lens. L. Dufek. No. 1,372,872; Mar. 29; v. 284; p. 805.
- Headlight mechanism for vehicles. A. J. Smith. No. 1,371,580; Mar. 15; v. 284; p. 458.
- Headlight-mounting. W. G. Wood. No. 1,374,622; Apr. 12; v. 285; p. 282.
- Headlight-reflector. J. Besch. No. 1,381,161; June 14; v. 287; p. 213.
- Headlight-reflector. C. A. B. Halvorson, Jr. No. 1,394,896; Oct. 25.
- Headlight-reflector. C. A. McNeal. No. 1,394,319; Oct. 18.
- Headlight-reflector. J. A. O'Neil. No. 1,394,934; Oct. 25.
- Headlight-screen. E. Von Vargyas. No. 1,372,919; Mar. 29; v. 284; p. 815.
- Headlight-screen, Controllable. W. A. Schroeder. (Re-issue.) No. 15,088; Apr. 12; v. 285; p. 336.
- Headlight-shield. C. and E. J. Toepfer. No. 1,388,221; Aug. 23; v. 289; p. 628.
- Headlight, Vehicle. A. and R. K. Brake. No. 1,395,699; Nov. 1.
- Headlight, Vehicle. L. G. Wright. No. 1,398,823; Nov. 29.
- Headlights, Adjustable deflector for automobile. W. Ellsworth. No. 1,369,227; Feb. 22; v. 283; p. 602.
- Headlights, Adjustable lamp and support for. B. Ames. No. 1,369,722; Feb. 22; v. 283; p. 698.
- Headlights, Auxiliary subduing-reflector for. E. E. Currier. No. 1,381,404; June 14; v. 287; p. 257.
- Headlights, Controlling device for. G. F. Pennington. No. 1,376,225; Apr. 26; v. 285; p. 683.
- Headlights, Controlling device for automobile. J. E. Gray. No. 1,398,262; Nov. 29.
- Headlights, Dimmer for. G. Mattox. No. 1,371,179; Mar. 8; v. 284; p. 315.
- Headlights, Dimming apparatus for. H. M. Smith. No. 1,386,968; Aug. 9; v. 289; p. 271.
- Headlights, Dimming device for. W. A. Schroeder. No. 1,375,418; Apr. 19; v. 285; p. 497.
- Headlights, Dimming device for. W. A. Schroeder. No. 1,389,273; Aug. 30; v. 289; p. 892.
- Headlights, Lens for. L. and H. Benzer. No. 1,374,900; Apr. 19; v. 285; p. 398.
- Headlights, Focusing device for. H. W. Brown. No. 1,386,312; Aug. 2; v. 289; p. 70.
- Headlights, Lens for. B. J. Tamarin. No. 1,382,871; June 28; v. 287; p. 648.
- Headlights, Light deflecting means for. D. F. Moriarty. No. 1,399,143; Dec. 6.
- Headlights, Mounting for. F. Buchanan. No. 1,383,386; July 5; v. 288; p. 27.
- Headlights, Shade for. G. P. Eustis. No. 1,394,156; Oct. 18.
- Headlights, Shade for. N. McMillan. No. 1,381,482; June 14; v. 287; p. 271.
- Headlights, Universal joint and shock-absorbing spring for. P. S. Bailey. No. 1,379,510; May 24; v. 286; p. 779.
- Headrests, Cushion for. R. Hollis. No. 1,401,406; Dec. 27.
- Headwear. S. Werner. No. 1,399,726; Dec. 6.
- Headwear. S. Werner. No. 1,401,745; Dec. 27.
- Hearth, Mechanically-operated Scotch. W. E. Newnam. No. 1,388,144; Aug. 16; v. 289; p. 556.
- Heat and low-water indicator. O. H. Ludeman. No. 1,390,532; Sept. 13; v. 290; p. 287.
- Heat and solid particles in suspension from a drying-gas, Apparatus for recovering. R. G. Brindle and A. H. Flint. No. 1,366,712; Jan. 25; v. 282; p. 645.
- Heat-alarm. C. G. Overmyer. No. 1,380,009; May 31; v. 286; p. 947.
- Heat, Apparatus for the treatment of articles with. C. W. Post. No. 1,379,595; May 24; v. 286; p. 795.
- Heat concentrating and deflecting device. C. E. Johnson. No. 1,366,806; Jan. 25; v. 282; p. 664.
- Heat-conducting device. P. A. E. Armstrong. No. 1,386,303; Aug. 2; v. 289; p. 68.
- Heat-conservator. J. M. Truesdell. No. 1,367,333; Feb. 1; v. 283; p. 90.
- Heat-conserving apparatus. R. N. Ehrhart. No. 1,390,516; Sept. 13; v. 290; p. 283.
- Heat control for electric furnaces. A. L. Wilkes. No. 1,377,952; May 10; v. 286; p. 358.
- Heat deflector and draft-creating device. A. J. Anderson. No. 1,391,291; Sept. 20; v. 290; p. 503.
- Heat-dissipating structure, Induction-coil. A. A. Kent. No. 1,385,624; July 26; v. 288; p. 695.
- Heat-distributor. A. B. Cruickshank. No. 1,392,868; Oct. 4.
- Heat-distributing device. J. S. Hind. No. 1,368,337; Feb. 15; v. 283; p. 389.
- Heat economizer or regenerator. M. Mathy. No. 1,370,984; Mar. 8; v. 284; p. 279.
- Heat-exchange apparatus. H. Nielsen and F. D. Marshall. No. 1,378,715; May 17; v. 286; p. 556.
- Heat-exchange apparatus, Damper control for. J. M. Harrison. No. 1,392,761; Oct. 4.
- Heat-exchange device. F. A. Halleck. No. 1,401,717; Dec. 27.
- Heat-exchange system. W. Coates. No. 1,401,523; Dec. 27.
- Heat-exchanger. C. F. Braun. No. 1,376,135; Apr. 26; v. 285; p. 666.
- Heat-exchanger. R. W. Douglas. No. 1,397,091; Nov. 15.
- Heat-exchanger. J. Schneible. No. 1,366,958; Feb. 1; v. 283; p. 15.
- Heat, Generation and distribution of. W. S. Hadaway, Jr. No. 1,383,107; June 28; v. 287; p. 693.
- Heat-generator. A. Sauer. No. 1,369,359; Feb. 22; v. 283; p. 627.
- Heat-generator for water. G. S. Henson. No. 1,366,455; Jan. 25; v. 282; p. 595.
- Heat-insulated container. G. P. Altenberg. No. 1,390,227; Sept. 6; v. 290; p. 134.
- Heat-insulating formed body and making same. A. H. Krieger and W. L. Jordan. No. 1,393,225; Oct. 11.
- Heat-interchange, Apparatus for. J. M. Harrison. No. 1,397,097; Nov. 15.
- Heat-interchange device. E. Wirth-Frey. No. 1,393,475; Oct. 11.
- Heat-interchanger. J. Price. No. 1,382,670; June 28; v. 287; p. 611.
- Heat-interchanger. M. von Recklinghausen. No. 1,393,452; Oct. 11.
- Heat-interchanging device. L. Brown. No. 1,367,944; Feb. 8; v. 283; p. 265.
- Heat-non-conducting fabric. F. A. Gilcrest. No. 1,371,754; Mar. 15; v. 284; p. 491.
- Heat producing and distributing element. C. E. Johnston and A. J. Jorgenson. No. 1,383,211; June 28; v. 287; p. 713.
- Heat-regenerator. L. B. Skinner. (Reissue.) No. 15,052; Feb. 22; v. 283; p. 708.
- Heat-regulator. T. O. Perry. No. 1,378,556; May 17; v. 286; p. 525.
- Heat-regulator. E. H. White. No. 1,393,060. Oct. 11.
- Heat-regulator, Automatic. A. E. Fuller. No. 1,372,416; Mar. 22; v. 284; p. 674.
- Heat-regulating system. B. P. Hermes. No. 1,375,458; Apr. 19; v. 285; p. 505.
- Heat-resisting iron. P. D. Schenck. No. 1,398,917; Nov. 29.
- Heat-resistant substances, Apparatus for recovering and securing volatile products from relatively fixed. H. E. Lutz. No. 1,389,203; Aug. 30; v. 289; p. 877.
- Heat retaining and transmitting device. H. H. Colestock. No. 1,372,643; Mar. 22; v. 284; p. 718.
- Heat-transference apparatus. C. Field. No. 1,389,637; Sept. 6; v. 290; p. 15.
- Heat-treating bodies. N. H. Fooks. No. 1,366,778; Jan. 25; v. 282; p. 659.
- Heat-treating structural members, Method of and apparatus for. A. S. and H. P. Macdonald. No. 1,376,106; Apr. 26; v. 285; p. 661.
- Heat treatment of articles, Apparatus for. D. E. Gray. No. 1,372,420; Mar. 22; v. 284; p. 675.
- Heated vapor to internal-combustion engines, Device for supplying. B. Douglas. No. 1,373,603; Apr. 5; v. 285; p. 43.



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- Heater: See—  
 Air-heater.  
 Auto-radiator heater.  
 Automobile-heater.  
 Automobile-engine heater.  
 Automobile-radiator heater.  
 Car-heater.  
 Carburetor-heater.  
 Chemical-heater.  
 Circulator-heater.  
 Culinary heater.  
 Curling-iron heater.  
 Dental water-heater.  
 Electric air-heater.  
 Electric heater.  
 Electric car-heater.  
 Electric embossing-plate heater.  
 Electric-fan heater.  
 Electric hot-air heater.  
 Electric liquid-heater.  
 Electric rivet-heater.  
 Electric side-wall heater.  
 Electric water-heater.  
 Electric wax-heater.  
 Electrical heater.  
 Electrical immersion-heater.  
 Fireplace-heater.  
 Fluid-heater.  
 Fuel-vaporizing heater.  
 Heater. A. Alvarez and B. F. Marshall. No. 1,365,074; Jan. 11; v. 282; p. 241.  
 Heater. T. R. Barnes. No. 1,364,678; Jan. 4; v. 282; p. 122.  
 Heater. F. L. Browne. No. 1,370,406; Mar. 1; v. 284; p. 123.  
 Heater. E. A. Corbin, Jr. No. 1,380,135; May 31; v. 286; p. 971.  
 Heater. H. S. Dodd. No. 1,375,187; Apr. 19; v. 285; p. 443.  
 Heater. J. T. Duckworth. No. 1,374,836; Apr. 12; v. 285; p. 323.  
 Heater. M. K. Dunham. No. 1,384,746; July 19; v. 288; p. 439.  
 Heater. E. L. Emerson. No. 1,367,952; Feb. 8; v. 283; p. 267.  
 Heater. W. C. Garner. No. 1,396,104; Nov. 8.  
 Heater. H. Kraft. No. 1,371,693; Mar. 15; v. 284; p. 480.  
 Heater. H. Lockhart. No. 1,387,856; Aug. 16; v. 289; p. 501.  
 Heater. L. C. Lucas. No. 1,367,064; Feb. 1; v. 283; p. 36.  
 Heater. F. W. Merritt. No. 1,393,234; Oct. 11.  
 Heater. R. J. Nott. No. 1,366,926; Feb. 1; v. 283; p. 9.  
 Heater. J. S. Olds. No. 1,371,390; Mar. 15; v. 284; p. 420.  
 Heater. O. P. Oslie. No. 1,368,284; Feb. 15; v. 283; p. 379.  
 Heater. J. H. Sawyer. No. 1,372,198; Mar. 22; v. 284; p. 632.  
 Heater. H. A. Scisinger and E. W. Adams. No. 1,366,840; Jan. 25; v. 282; p. 671.  
 Heater. L. A. Tactikos. No. 1,389,397; Aug. 30; v. 289; p. 916.  
 Heater and cooker. O. W. Nottingham. No. 1,373,828; Apr. 5; v. 285; p. 87.  
 Heater and cooker, Combination. P. Reinhardt. No. 1,396,464; Nov. 8.  
 Heater, Electric. J. R. Bakstad. No. 1,396,241; Nov. 8.  
 Heater, Gas-jet. M. J. Otto. No. 1,366,886; Jan. 25; v. 282; p. 680.  
 Heater and heat insulation. W. S. Hadaway, Jr. No. 1,389,192; Aug. 30; v. 289; p. 875.  
 Heater and maintenance-wagon, Combination. H. P. Andresen. No. 1,376,852; May 3; v. 286; p. 90.  
 Heater-casing construction. J. J. Seemann. No. 1,370,051; May 24; v. 286; p. 692.  
 Heater for bathtubs, laundry-tubs, or the like. W. O. Jarrett. No. 1,389,050; Aug. 30; v. 289; p. 847.  
 Heater for fluids. D. M. Luehrs. No. 1,385,564; July 26; v. 288; p. 683.  
 Heater for hot-pipe systems. W. Karlsson. No. 1,394,557; Oct. 25.  
 Heater for gasoline-supply pipes. E. Millner. No. 1,399,393; Dec. 6.  
 Heater unit. H. R. Ziebell. No. 1,401,851; Dec. 27.  
 Heating and baking structure. J. J. Reid. No. 1,390,542; Sept. 13; v. 290; p. 289.  
 Heating apparatus. A. J. La Fay. No. 1,391,838; Sept. 27; v. 290; p. 687.  
 Heating apparatus. A. J. La Fay. No. 1,391,839; Sept. 27; v. 290; p. 687.  
 Heating apparatus, Automatic draft control for. H. E. Spears. No. 1,399,815; Dec. 13.  
 Heating apparatus, Electric. H. Geisenhöner. No. 1,394,891; Oct. 25.  
 Heating appliance. H. F. Maranville. No. 1,392,071; Sept. 27; v. 290; p. 734.  
 Heating arrangement for rooms. H. Lubeck. No. 1,391,745; Sept. 27; v. 290; p. 668.  
 Heating-boiler. R. E. Sturman. No. 1,390,838; Sept. 13; v. 290; p. 348.  
 Heaters, Cold-air-supply device for. R. W. Menk. No. 1,383,477; July 5; v. 288; p. 46.  
 Heating, cooking, and other purposes, Gas-burner for. W. L. and A. M. Shand. No. 1,397,662; Nov. 22.  
 Heating, cooling, and ventilating apparatus. T. Neilson. Nos. 1,399,147-8; Dec. 6.  
 Heating device. K. W. Knapp and W. G. Holmes. No. 1,401,793; Dec. 27.  
 Heaters, Draft-controlling device for. C. B. Burke. No. 1,375,248; Apr. 19; v. 285; p. 464.  
 Heating element, Electrical. W. C. Garner. No. 1,396,105; Nov. 8.  
 Heating-furnace, Continuous. T. J. Costello. No. 1,397,367; Nov. 15.  
 Heating-furnace with removable hearth. A. F. Delacourt. No. 1,401,054; Dec. 20.  
 Heating-generating plant. W. T. Bidwell. No. 1,391,451; Sept. 20; v. 290; p. 536.  
 Heaters, Guard for. E. N. Brown and M. H. Shoenberg. No. 1,368,108; Feb. 8; v. 283; p. 297.  
 Heaters, Guard for electric. R. G. Ledig. No. 1,377,492; May 10; v. 286; p. 270.  
 Heaters, Making electric. C. Wirt. No. 1,376,987; May 3; v. 286; p. 116.  
 Heating and cooling apparatus. N. D. Nielsen. No. 1,383,419; July 5; v. 288; p. 34.  
 Heating and ventilating unit. W. Shurtleff. No. 1,364,894; Jan. 11; v. 282; p. 207.  
 Heating apparatus. R. S. Blair. No. 1,367,793; Feb. 8; v. 283; p. 237.  
 Heating apparatus. W. F. Clark. No. 1,381,282; June 14; v. 287; p. 234.  
 Heating apparatus. W. S. Hadaway, Jr. No. 1,383,110; June 28; v. 287; p. 694.  
 Heating apparatus. E. Phillipson. No. 1,383,564; July 5; v. 288; p. 63.  
 Heating apparatus. J. S. Shanks. No. 1,377,030; May 3; v. 286; p. 124.  
 Heating apparatus. R. C. Weishampel. No. 1,373,110; Mar. 29; v. 284; p. 851.  
 Heating by combustion without flame, Apparatus for. M. Mathy. No. 1,388,355; Aug. 23; v. 289; p. 656.  
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 Heating device. H. L. Munson. No. 1,380,673; June 7; v. 287; p. 66.  
 Heating device. E. L. Weber. No. 1,365,807; Jan. 18; v. 282; p. 424.  
 Heating device, Electric. A. F. Berry. No. 1,378,515; May 17; v. 286; p. 517.  
 Heating device, Electric. R. M. Eaton. No. 1,368,328; Feb. 15; v. 283; p. 388.  
 Heating device, Electric. E. N. Lightfoot. No. 1,370,136; Mar. 1; v. 284; p. 72.  
 Heating device, Electric. M. E. Long and G. W. Katzung. No. 1,376,023; Apr. 26; v. 285; p. 645.  
 Heating device, Electrical. F. Boardman. (Reissue.) No. 15,047; Feb. 22; v. 283; p. 707.  
 Heating-element-controlling device. P. M. Mueller. No. 1,388,589; Aug. 23; v. 289; p. 701.  
 Heating element and making same, Electric. J. W. Cox. No. 1,375,084; Apr. 19; v. 285; p. 433.  
 Heating-furnace. E. C. Danner. No. 1,375,679; Apr. 26; v. 285; p. 580.  
 Heating-furnace. N. F. Egler. No. 1,380,095; May 31; v. 286; p. 963.  
 Heating furnace and operating same, Pair. T. J. Costello. No. 1,378,326; May 17; v. 286; p. 481.  
 Heating furnace, Continuous. W. H. Fitch. No. 1,388,419; Aug. 23; v. 289; p. 669.  
 Heating-furnace, Continuous. J. S. Worth. No. 1,374,132; Apr. 5; v. 285; p. 146.  
 Heating-pad, Electrical. E. J. Rohne. No. 1,368,412; Feb. 15; v. 283; p. 404.  
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 Heating system. H. H. Berrymann. No. 1,401,512; Dec. 27.  
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- Heating system, Drier. W. B. Fulton. No. 1,380,373; June 7; v. 287; p. 10.
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- Heating system, Hot-air. C. McVeety. No. 1,393,301; Oct. 11.
- Heating system, Hot-water. L. P. McChesney. No. 1,364,772; Jan. 4; v. 282; p. 140.
- Heating systems, Controller for. E. E. Gold. No. 1,373,417; Apr. 5; v. 285; p. 7.
- Heating systems, Regulator for electric. W. G. Hartwig. No. 1,365,782; Jan. 18; v. 282; p. 419.
- Heating systems, Steam-trap for vapor. J. A. Holmberg. No. 1,373,072; Mar. 29; v. 284; p. 844.
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- Heating-tank. J. M. Stocker. No. 1,394,692; Oct. 25.
- Heating unit, Electric. C. C. Abbott. No. 1,367,341; Feb. 1; v. 283; p. 91.
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- Heating unit, Electrical. F. Kuhn and J. A. Hand. No. 1,376,209; Apr. 26; v. 285; p. 680.
- Heating unit, Immersible. L. J. Schneider. No. 1,369,475; Feb. 22; v. 283; p. 649.
- Heating unit, Radiant. M. H. Shoenberg. No. 1,365,554; Jan. 11; v. 282; p. 335.
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- Heddle. J. Kaufmann. No. 1,379,824; May 31; v. 286; p. 912.
- Heddles or the like, Apparatus for separating. C. E. Field. No. 1,399,854; Dec. 13.
- Heddlings and warping. W. F. Grupe. No. 1,395,818; Nov. 1.
- Hedge, lawn, and similar article, Artificial. R. W. Tully. No. 1,386,450; Aug. 2; v. 289; p. 95.
- Heel. S. Armishaw. No. 1,393,658; Oct. 11.
- Heel. J. E. Hettinger. No. 1,378,864; May 24; v. 286; p. 657.
- Heel. N. A. Monfils. No. 1,401,808; Dec. 27.
- Heel. J. G. Robertson. No. 1,380,838; June 7; v. 287; p. 99.
- Heel. S. Rabushka. No. 1,364,494; Jan. 4; v. 282; p. 87.
- Heel. J. G. Robertson. No. 1,400,183; Dec. 13.
- Heel and insert therefor, Rubber. G. N. Damon. No. 1,387,243; Aug. 9; v. 289; p. 324.
- Heel and shank setter, Electric edge. W. Lutes. No. 1,365,519; Jan. 11; v. 282; p. 328.
- Heel and tread insert, Resilient. H. H. Troxel. No. 1,399,328; Dec. 6.
- Heel-arranging mechanism. C. C. Small. No. 1,386,659; Aug. 9; v. 289; p. 209.
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- Heel-attaching machine. R. C. Simmons. No. 1,366,964; Feb. 1; v. 283; p. 17.
- Heel-blank building. J. E. Mitchell and D. Parks. No. 1,399,508; Dec. 6.
- Heel-blank separator and method of and apparatus for using same. D. Parks. No. 1,381,735; June 14; v. 286; p. 320.
- Heel-blanks, Building. D. Parks. No. 1,383,846; July 5; v. 288; p. 122.
- Heel-blanks, Machine for arranging. R. C. Simmons. No. 1,398,345; Nov. 29.
- Heel-blanks, Preparation of. T. Lund. No. 1,401,165; Dec. 27.
- Heel-breasting machine. L. A. Casgrain. No. 1,384,178; July 12; v. 288; p. 240.
- Heel-breasting machine. H. B. Munson. No. 1,397,897; Nov. 22.
- Heel-breasting machine. G. S. Tolman, Jr. No. 1,400,700; Dec. 20.
- Heel-breasting machine. E. E. Winkley. No. 1,374,869; Apr. 12; v. 285; p. 329.
- Heel-builders, Piercing and nailing mechanism for. G. B. Grover. No. 1,391,951; Sept. 27; v. 290; p. 710.
- Heel-building machine. R. S. Megathlin. No. 1,386,642; Aug. 9; v. 289; p. 205.
- Heel-building machine. J. H. Pope. No. 1,398,343; Nov. 29.
- Heel-building machine. J. H. Pope. No. 1,400,695; Dec. 20.
- Heel-clamp. D. H. Finberg. No. 1,365,674; Jan. 18; v. 282; p. 397.
- Heel-clamp. D. H. Finberg. No. 1,365,675; Jan. 18; v. 282; p. 397.
- Heel-compressing machine. T. Lund. No. 1,386,630; Aug. 9; v. 289; p. 204.
- Heel, Cushion. A. H. Ammann. No. 1,373,287; Mar. 29; v. 284; p. 887.
- Heel, Cushion. A. Bucolo. No. 1,385,901; July 26; v. 288; p. 751.
- Heel, Cushion shoe. J. I. Mounett and H. S. Blynt. No. 1,380,825; June 7; v. 287; p. 96.
- Heel, Detachable. M. Lampkin. No. 1,379,452; May 24; v. 286; p. 767.
- Heel, Detachable. W. A. Maloney. No. 1,369,529; Feb. 22; v. 283; p. 660.
- Heel, Detachable. G. W. Owen. No. 1,400,095; Dec. 13.
- Heel, Detachable. B. Summerfield. No. 1,396,299; Nov. 8.
- Heel, Detachable metallic. R. C. Rutzke. No. 1,370,918; Mar. 8; v. 284; p. 266.
- Heel, Detachable rubber. A. C. Buchman. No. 1,366,518; Jan. 25; v. 282; p. 607.
- Heel, Detachable shoe. L. Iannelle. No. 1,393,784; Oct. 18.
- Heel, Detachable shoe. S. Solarz. No. 1,383,436; July 5; v. 288; p. 37.
- Heel-fastener. L. Cerf. No. 1,375,671; Apr. 26; v. 285; p. 578.
- Heel-fastener. F. J. Gleason. No. 1,369,922; Mar. 1; v. 284; p. 32.
- Heel-fastening device. L. A. Chamberlin. No. 1,375,897; Apr. 26; v. 285; p. 620.
- Heel-filler block. J. E. Emond. No. 1,395,804; Nov. 1.
- Heel for boots or shoes. K. N. Critchfield. No. 1,369,166; Feb. 22; v. 283; p. 590.
- Heel for footwear. S. J. Jampopoulos. No. 1,399,346; Dec. 6.
- Heel for footwear. V. May. No. 1,368,819; Feb. 15; v. 283; p. 483.
- Heel for footwear. W. J. Sellars. No. 1,366,601; Jan. 25; v. 282; p. 624.
- Heel for ladies' shoes, Aluminum. H. Waldorf. No. 1,366,981; Feb. 1; v. 283; p. 20.
- Heel for shoes. H. R. Mencarelli. No. 1,378,261; May 17; v. 286; p. 469.
- Heel for shoes, Cushion. H. Faegenson. No. 1,392,823; Oct. 4.
- Heel for shoes, Cushion. H. Fraternali. No. 1,391,885; Sept. 27; v. 290; p. 696.
- Heel for shoes and boots, Detachable. G. W. Owen. No. 1,400,096; Dec. 13.
- Heel-gouging and lip-cutting machine. J. H. Pope. No. 1,396,143; Nov. 8.
- Heel-grip for shoes. D. Kernohan. No. 1,401,790; Dec. 27.
- Heel-guard. O. M. Roberts. No. 1,368,056; Feb. 8; v. 283; p. 286.
- Heel-guard and toe-clip. E. O. Goldsmith. No. 1,387,385; Aug. 9; v. 289; p. 355.
- Heel holder, Shoe. W. T. Creed. No. 1,390,886; Sept. 13; v. 290; p. 358.
- Heel, Interchangeable. E. A. Windsor. No. 1,398,662; Nov. 29.
- Heel lift, Shoe. N. Daquino. No. 1,378,220; May 17; v. 286; p. 461.
- Heel-lifts, Machine for operating on. E. E. Winkley. No. 1,393,062; Oct. 11.
- Heel-machine. E. E. Winkley. No. 1,372,059; Mar. 22; v. 284; p. 606.
- Heel-nailing machine. J. T. Lancaster. No. 1,395,838; Nov. 1.
- Heel of boots and shoes. W. D. Sternberg. No. 1,389,913; Sept. 6; v. 290; p. 72.
- Heel pad, Detachable shoe. L. Arntz and B. Walters. No. 1,371,339; Mar. 15; v. 284; p. 410.
- Heel-piles, Machine for molding. E. E. Winkley. No. 1,396,802; Nov. 15.
- Heel, Pneumatic. E. Borman. No. 1,383,067; June 28; v. 287; p. 686.
- Heel, Pneumatic. G. J. Winter. No. 1,399,836; Dec. 13.
- Heel-removing device. H. P. Dickerson. No. 1,371,474; Mar. 15; v. 284; p. 437.
- Heel, Resilient. E. J. Emery. No. 1,390,348; Sept. 13; v. 290; p. 250.
- Heel, Resilient. F. Graffes. No. 1,395,342; Nov. 1.
- Heel, Resilient. F. Nierger. No. 1,376,965; May 3; v. 286; p. 112.
- Heel, Resilient. W. E. Sanders. No. 1,383,763; July 5; v. 288; p. 105.
- Heel, Reversible. E. F. Quinn. No. 1,400,182; Dec. 13.
- Heel, Revolving. T. Hand. No. 1,394,676; Oct. 25.
- Heel, Rotary. A. Twarogowski and S. Klosinski. No. 1,377,642; May 10; v. 286; p. 297.
- Heel, Rubber. C. C. Goodman. No. 1,387,976; Aug. 16; v. 289; p. 523.
- Heel, Rubber. A. A. Harris. No. 1,366,797; Jan. 25; v. 282; p. 663.
- Heel, Rubber. L. Kaplan. No. 1,387,988; Aug. 16; v. 289; p. 526.
- Heel, Rubber. L. J. Schaefer. No. 1,383,155; June 28; v. 287; p. 703.
- Heel, Rubber. D. Simone. No. 1,388,773; Aug. 23; v. 289; p. 737.
- Heel-scouring roll. G. O. Terry. No. 1,387,628; Aug. 16; v. 289; p. 454.
- Heel-seats, Method of and machine for cutting. O. R. Angell. No. 1,389,613; Sept. 6; v. 290; p. 11.
- Heel, Shoe. A. Cohen. No. 1,394,712; Oct. 25.
- Heel, Shoe. D. H. Finberg. No. 1,381,980; June 21; v. 287; p. 426.
- Heel, Shoe. R. R. Kirsch. No. 1,382,732; June 28; v. 287; p. 622.
- Heel, Shoe. E. O. R. Kresse. No. 1,392,769; Oct. 4.
- Heel, Shoe. P. J. Lovett. No. 1,365,515; Jan. 11; v. 282; p. 327.
- Heel, Shoe. L. McMillan. No. 1,371,040; Mar. 8; v. 284; p. 289.



- Heel, Shoe. E. O. Schlosser and H. Schneider. No. 1,395,740; Nov. 1.
- Heel, Shoe. O. E. Sherard. No. 1,393,175; Oct. 11.
- Heel, Shoe. A. J. Sertl. No. 1,372,163; Mar. 22; v. 284; p. 625.
- Heel, Shoe. C. D. Smith. No. 1,388,776; Aug. 23; v. 289; p. 738.
- Heel, Shoe. F. J. Walker. No. 1,395,535; Nov. 1.
- Heel, Shoe. J. A. Zahn. No. 1,389,087; Aug. 30; v. 289; p. 855.
- Heel, Spring. B. F. Schirmer. No. 1,371,398; Mar. 15; v. 284; p. 422.
- Heel-support. C. B. Imrie. No. 1,380,477; June 7; v. 287; p. 29.
- Heel-tread, Resilient. H. W. Rogers. No. 1,364,583; Jan. 4; v. 282; p. 103.
- Heel-trimmer. T. B. Huestis. No. 1,382,642; June 28; v. 287; p. 605.
- Heel-turning-machine block-holder. J. H. Vinton. No. 1,397,844; Nov. 22.
- Heel, Unattached. R. Cutts. No. 1,395,263; Nov. 1.
- Heel, Wooden. W. O. Wippert and W. D. Spitzer. No. 1,384,109; July 12; v. 288; p. 226.
- Heel with interchangeable tread. G. Becher. No. 1,390,075; Sept. 6; v. 290; p. 104.
- Heels, Apparatus for and method of treating. T. Lund. No. 1,384,139; July 12; v. 288; p. 232.
- Heels, Attaching device for shoe. J. Anderson. No. 1,383,277; July 5; v. 288; p. 3.
- Heels, Clamping device for shoe. H. H. Roosa. No. 1,392,357; Oct. 4.
- Heels, Heel-feeding device for machines for operating on. T. B. Clarke. No. 1,377,315; May 10; v. 286; p. 235.
- Heels, Last and device for attaching. C. Hunt. No. 1,399,772; Dec. 13.
- Heels, Lifts, soles, or other articles from rubber or other material, Mold for making. H. C. Ridout. No. 1,383,857; July 5; v. 288; p. 125.
- Heels, Machine for trimming the overflow from the breast of rubber. T. E. Kane. No. 1,376,018; Apr. 26; v. 285; p. 644.
- Heels, Mold for cushion. M. C. Clark. No. 1,370,287; Mar. 1; v. 284; p. 101.
- Heels, Resilient cushion for. J. M. Combs. No. 1,398,627; Nov. 29.
- Heels to shoes, Device for use in attaching. S. G. Shapiro. No. 1,401,819; Dec. 27.
- Heels to shoes, Machine for affixing. I. Henne and J. L. Pico. No. 1,376,539; May 3; v. 286; p. 30.
- Heeling-machine. B. F. Mayo. No. 1,377,263; May 10; v. 286; p. 225.
- Heeling-machine. J. F. Standish. No. 1,365,802; Jan. 18; v. 282; p. 423.
- Heeling-machine. J. F. Standish. No. 1,384,870; July 19; v. 288; p. 464.
- Heelless sock. L. H. Conley. No. 1,384,828; July 19; v. 288; p. 456.
- Helicopter. W. Taft. No. 1,373,775; Apr. 5; v. 285; p. 76.
- Helmet. R. Malcolm. No. 1,378,255; May 17; v. 286; p. 468.
- Helmet, Military. J. Dunand. No. 1,366,907; Feb. 1; v. 283; p. 5.
- Helmet or mask. F. M. Bower. No. 1,399,602; Dec. 6.
- Hem-gage. R. J. Klath. No. 1,379,347; May 24; v. 286; p. 749.
- Hemmer. G. Braf. No. 1,371,600; Mar. 15; v. 284; p. 462.
- Hemoglobinometer. G. Bennett, Sr. No. 1,390,422; Sept. 13; v. 290; p. 264.
- Hemoglobinometers, Test-glass for. K. Fuchs. No. 1,400,356; Dec. 13.
- Hemstitching-machine for fabrics. M. Adair and W. P. Snyder. No. 1,394,244; Oct. 18.
- Hen-marker. S. Moore. No. 1,372,533; Mar. 22; v. 284; p. 696.
- Henhouse-door. H. Reincke. No. 1,381,015; June 7; v. 287; p. 133.
- High-chair. A. M. Tretter. No. 1,401,834; Dec. 27.
- Hide-cleaning tool. R. J. Stine. No. 1,383,873; July 5; v. 288; p. 127.
- Hide-coupler. G. B. Campbell. No. 1,390,495; Sept. 13; v. 290; p. 279.
- Hides and skins, Making depilatory for. A. H. Stone. No. 1,394,588; Oct. 25.
- Hides and leather, Stretcher and drier for. F. J. Robinson. No. 1,392,968; Oct. 11.
- Hides, Apparatus for treating. A. N. Walker. No. 1,396,699; Nov. 8.
- Hides, Deliming. W. Savage. No. 1,382,124; June 21; v. 287; p. 452.
- Hides, Dressing. E. Kanet. No. 1,367,054; Feb. 1; v. 283; p. 34.
- High-lead block. G. Frink. No. 1,381,410; June 14; v. 287; p. 259.
- Hides, skins, and leather, Machine for treating. H. A. Holder. No. 1,373,426; Apr. 5; v. 285; p. 9.
- Hides, skins, and pelts for the purpose of identification, Marking. E. M. Roberts. No. 1,372,907; Mar. 29; v. 284; p. 812.
- High-frequency generator of the transformer type. C. W. De Mooy. No. 1,376,081; Apr. 26; v. 285; p. 656.
- High-frequency machine. C. W. De Mooy. No. 1,376,080; Apr. 26; v. 285; p. 656.
- High-frequency oscillations, Apparatus for the production of intermittent or continuous. A. L. Golden. No. 1,372,808; Mar. 29; v. 284; p. 791.
- High-pressure standard regulator. J. M. Larson. No. 1,376,948; May 3; v. 286; p. 109.
- High-speed lifting-jack. F. L. Gormley. No. 1,376,869; May 3; v. 286; p. 93.
- High vacuum, Method of and apparatus for producing. W. W. Crawford. No. 1,367,865; Feb. 8; v. 283; p. 251.
- High-voltage disconnecting-switch. C. Aalborg. No. 1,385,977; Aug. 2; v. 289; p. 3.
- High-voltage line conductors, Stick for handling. T. F. Johnson, Jr. No. 1,370,651; Mar. 8; v. 284; p. 215.
- Highway construction. H. C. Harris. No. 1,375,960; Apr. 26; v. 285; p. 632.
- Highway-crossing signal. S. C. Bryant. No. 1,379,678; May 31; v. 286; p. 885.
- Hinge. A. Alary. No. 1,379,951; May 31; v. 286; p. 936.
- Hinge. E. W. Baerwaldt. No. 1,387,962; Aug. 16; v. 289; p. 520.
- Hinge. L. S. Crone. No. 1,375,212; Apr. 19; v. 285; p. 458.
- Hinge. P. R. Cyding. No. 1,382,996; June 28; v. 287; p. 672.
- Hinge. I. S. Dicken. No. 1,392,049; Sept. 27; v. 290; p. 730.
- Hinge. A. H. Ehrlich. No. 1,382,962; June 28; v. 287; p. 666.
- Hinge. C. J. Johnson and G. A. Jacobs. No. 1,375,635; Apr. 19; v. 285; p. 538.
- Hinge. W. Kanter. No. 1,384,260; July 12; v. 288; p. 257.
- Hinge. U. M. Lincoln. No. 1,370,457; Mar. 1; v. 284; p. 133.
- Hinge. C. G. Murphy. No. 1,383,230; June 28; v. 287; p. 717.
- Hinge. J. M. Oknianski. No. 1,395,593; Nov. 1.
- Hinge. I. Phillips. No. 1,380,587; June 7; v. 287; p. 50.
- Hinge. C. B. Roberts. No. 1,401,734; Dec. 27.
- Hinge. J. Soss. No. 1,385,800; July 26; v. 288; p. 731.
- Hinge, Adjustable. J. H. Kerstetter. No. 1,381,072; June 7; v. 287; p. 144.
- Hinge, Aileron. A. D. Bentley. No. 1,394,464; Oct. 18.
- Hinge and anchoring means therefor. J. K. Blackacek. No. 1,371,141; Mar. 8; v. 284; p. 309.
- Hinge and catch for automobile-doors, Combination. W. H. Kroll. No. 1,383,548; July 5; v. 288; p. 60.
- Hinge and lid-support, Combination. R. A. Norquist. No. 1,390,579; Sept. 13; v. 290; p. 296.
- Hinge, Bag-handle. F. C. Botwright. No. 1,397,356; Nov. 15.
- Hinge-butt. A. J. Gustafson. No. 1,379,814; May 31; v. 286; p. 910.
- Hinge, Check. E. Franckaerts. No. 1,393,889; Oct. 18.
- Hinge connection. N. W. Akimoff. No. 1,389,728; Sept. 6; v. 290; p. 34.
- Hinge construction. W. L. Heap. No. 1,365,690; Jan. 18; v. 282; p. 400.
- Hinge construction. E. Panek. No. 1,374,602; Apr. 12; v. 285; p. 278.
- Hinge-cover box. C. H. Nowack. No. 1,385,575; July 26; v. 288; p. 685.
- Hinge, Door. P. Persson. No. 1,391,007; Sept. 20; v. 290; p. 445.
- Hinge for door-plates and other structures. A. C. Gaynor. No. 1,378,944; May 24; v. 286; p. 672.
- Hinge for windows. O. B. Johnson. No. 1,384,836; July 19; v. 288; p. 458.
- Hinge, Friction-type. E. Heffernan. No. 1,366,657; Jan. 25; v. 282; p. 635.
- Hinge-gage. A. G. Murdock. No. 1,400,898; Dec. 20.
- Hinge, Gate. R. P. Bellican. No. 1,380,312; May 31; v. 286; p. 1004.
- Hinge, Gate. F. Melugin. No. 1,383,961; July 5; v. 288; p. 145.
- Hinge, Gate. A. W. Swanson. No. 1,365,352; Jan. 11; v. 282; p. 296.
- Hinge, Gravity. W. W. Wood. No. 1,393,190; Oct. 11.
- Hinge marker, measurer, and cutting device. A. Wakefield. No. 1,388,223; Aug. 23; v. 289; p. 629.
- Hinge, Multiple-lever. W. L. Evans, Jr. No. 1,367,954; Feb. 8; v. 283; p. 267.
- Hinge or connector, Locking. F. J. Dowling. No. 1,391,304; Sept. 20; v. 290; p. 506.
- Hinge, Rising. A. E. Heley and T. W. Aitken. No. 1,365,100; Jan. 11; v. 282; p. 247.
- Hinge, Pivot spring. O. Katzenberger. No. 1,383,815; July 5; v. 288; p. 116.
- Hinge, Self-closing. A. S. Hughes. No. 1,386,621; Aug. 9; v. 289; p. 201.
- Hinge, Variable track. H. J. Rutz. No. 1,388,205; Aug. 23; v. 289; p. 625.
- Hinge, Ventilating window. E. B. Shand. No. 1,365,063; Jan. 11; v. 282; p. 239.
- Hinge, Window. E. H. Ellison. No. 1,368,127; Feb. 8; v. 283; p. 300.
- Hinge, Window. F. Grönman. No. 1,377,882; May 10; v. 286; p. 345.



*Alphabetical list of inventions—Continued.*

- Hip and kidney pad. E. V. Albin. No. 1,373,377; Mar. 29; v. 284; p. 905.
- Hitch. A. A. Danielson. No. 1,401,764; Dec. 27.
- Hitch structure. J. Q. Black. No. 1,398,312; Nov. 29.
- Hobbing teeth on revolving blanks, Method of and apparatus for. C. L. Anderson and C. E. Swenson. No. 1,380,286; May 31; v. 286; p. 999.
- Hobbyhorse. J. Ballin. No. 1,376,132; Apr. 26; v. 285; p. 666.
- Hobbyhorse. T. Burgess. No. 1,371,735; Mar. 15; v. 284; p. 487.
- Hobbyhorse. D. F. Tracey. No. 1,396,475; Nov. 8.
- Hoe. J. R. Clark. No. 1,387,883; Aug. 16; v. 289; p. 505.
- Hoe. L. Jarvis. No. 1,374,740; Apr. 12; v. 285; p. 304.
- Hoe. T. H. Killam. No. 1,372,298; Mar. 22; v. 284; p. 652.
- Hoe. J. F. Newman. No. 1,388,191; Aug. 23; v. 289; p. 622.
- Hoe. P. Persson. No. 1,364,140; Jan. 4; v. 282; p. 18.
- Hoe. J. W. Wood. No. 1,374,795; Apr. 12; v. 285; p. 315.
- Hoe and weeder. Garden. W. G. Anderson. No. 1,374,051; Apr. 5; v. 285; p. 130.
- Hoe-cleaner. L. Carlson. No. 1,373,486; Apr. 5; v. 285; p. 21.
- Hoe, Cultivating-. R. D. Church. No. 1,387,127; Aug. 9; v. 289; p. 303.
- Hoe, Culvert-cleaning. F. M. Balsley. No. 1,376,995; May 3; v. 286; p. 117.
- Hoe-handle. C. W. Lea. No. 1,390,797; Sept. 13; v. 290; p. 340.
- Hog-box. A. Hidy. No. 1,385,871; July 26; v. 288; p. 745.
- Hog-catcher. O. M. Lundene. No. 1,382,520; June 21; v. 287; p. 528.
- Hog catching and holding device. W. R. Hoisington. No. 1,377,833; May 10; v. 286; p. 335.
- Hog-eating poultry-protector or hog-muzzle. T. Lynch. No. 1,398,031; Nov. 22.
- Hog-feeder. C. Hunnicutt. No. 1,367,971; Feb. 8; v. 283; p. 271.
- Hog-feeder. R. J. Maxwell. No. 1,375,165; Apr. 19; v. 285; p. 449.
- Hog-feeder, Automatic. R. Buck. No. 1,372,933; Mar. 29; v. 284; p. 817.
- Hog-feeding device. J. Maciejewski. No. 1,367,614; Feb. 8; v. 283; p. 203.
- Hog-holder. B. C. Gaines. No. 1,380,891; June 7; v. 287; p. 109.
- Hog-holder. C. K. Hasty. No. 1,388,258; Aug. 23; v. 289; p. 636.
- Hog-holder. A. M. Johnson. No. 1,372,952; Mar. 29; v. 284; p. 821.
- Hog-holding device. C. Holding. No. 1,398,484; Nov. 29.
- Hog-house, Sectional individual. M. V. Tracy. No. 1,371,950; Mar. 15; v. 284; p. 528.
- Hog-restraining device. C. W. Pitlick. No. 1,381,006; June 7; v. 287; p. 131.
- Hog-ring. S. W. Orr. No. 1,388,536; Aug. 23; v. 289; p. 703.
- Hog-ring. R. Roethlisberger. No. 1,372,247; Mar. 22; v. 284; p. 642.
- Hog-scraping machine. G. H. Stallman. No. 1,383,347; July 5; v. 288; p. 18.
- Hog-trough. H. E. Miller and J. H. Jayne. No. 1,378,263; May 17; v. 286; p. 469.
- Hog-waterer. J. A. Martin. No. 1,365,260; Jan. 11; v. 282; p. 278.
- Hogs, Device for holding. G. Guthrie. No. 1,393,527; Oct. 11.
- Hogs, Medicine-administering instrument for. R. I. Smith. No. 1,378,199; May 17; v. 286; p. 457.
- Holst. F. Dundee. No. 1,369,331; Feb. 22; v. 283; p. 621.
- Holst. H. W. Lee and J. W. Swindale. No. 1,366,394; Jan. 25; v. 282; p. 582.
- Holst, Ammunition. H. W. Lee and J. W. Swindale. No. 1,388,349; Aug. 23; v. 289; p. 655.
- Holst and holder, Torsion-tube. P. W. Samuelson and W. Christofferson. No. 1,392,971; Oct. 11.
- Holst and hopper, Combined. M. C. Maxwell. No. 1,395,858; Nov. 1.
- Holst, Body-. H. H. Rawson. No. 1,388,372; Aug. 23; v. 289; p. 659.
- Holst for dumping-vehicles, Hydraulic. G. W. Berry. No. 1,394,245; Oct. 18.
- Holst, Hydro-. F. B. Smight. No. 1,374,888; Apr. 12; v. 285; p. 333.
- Holst mechanism. J. F. Godfrey. No. 1,397,164; Nov. 15.
- Holst, Portable. W. J. Herrbold. No. 1,393,218; Oct. 11.
- Holst. Sheaf-. E. Eberly and W. G. Fetrow. No. 1,371,777; Mar. 15; v. 284; p. 495.
- Holst, Traveling. R. L. Neubert. No. 1,389,265; Aug. 30; v. 289; p. 890.
- Holst, Traveling. R. L. Neubert. No. 1,392,785; Oct. 4.
- Holst, Water-. O. H. Jahnke and F. L. Orr. No. 1,373,736; Apr. 5; v. 285; p. 68.
- Hoists, Brake for electric-motor-operated. L. C. Vittorio. No. 1,374,258; Apr. 12; v. 285; p. 211.
- Hoists, Brake for electric-motor-operated. L. C. Vittorio. No. 1,374,259; Apr. 12; v. 285; p. 211.
- Hoists, Motor control for. R. H. McLain. No. 1,386,885; Aug. 9; v. 289; p. 255.
- Hoisting and conveying device. D. S. Andrews. No. 1,367,907; Feb. 8; v. 283; p. 259.
- Hoisting and conveying machinery. C. W. Aveling. No. 1,382,614; June 28; v. 287; p. 599.
- Hoisting and conveying machinery. C. W. Aveling. No. 1,395,077; Oct. 25.
- Hoisting and transporting apparatus. R. L. Pottinger, M. B. Flynn, and B. F. Price. No. 1,367,987; Feb. 8; v. 283; p. 273.
- Hoisting apparatus. M. N. Baker. No. 1,377,744; May 10; v. 286; p. 316.
- Hoisting apparatus. H. S. Gardner. No. 1,365,979; Jan. 18; v. 282; p. 458.
- Hoisting apparatus. A. Gottry. No. 1,374,444; Apr. 12; v. 285; p. 247.
- Hoisting apparatus. A. D. Lightner and E. Holmes. No. 1,398,331; Nov. 29.
- Hoisting apparatus. M. E. Lohr. No. 1,394,915; Oct. 25.
- Hoisting apparatus. A. F. Rocas. No. 1,391,411; Sept. 20; v. 290; p. 527.
- Hoisting apparatus. H. Sawyer. No. 1,395,735; Nov. 1.
- Hoisting apparatus. F. S. Schaefer. No. 1,397,057; Nov. 15.
- Hoisting device. T. Carlson. No. 1,369,963; Mar. 1; v. 284; p. 40.
- Hoisting device. E. B. Foster. No. 1,386,561; Aug. 2; v. 289; p. 116.
- Hoisting device. H. Myers. No. 1,388,288; Aug. 23; v. 289; p. 642.
- Hoisting-hook. B. Cousins. No. 1,394,068; Oct. 18.
- Hoisting-hook. J. Paterson, Jr. No. 1,386,583; Aug. 2; v. 289; p. 121.
- Hoisting-machine. C. Uhl. No. 1,382,576; June 21; v. 287; p. 538.
- Hoisting means. T. F. Hunter. (Reissue.) No. 15,028; Jan. 18; v. 282; p. 528.
- Hoisting mechanism. I. Benjamins. No. 1,399,736; Dec. 13.
- Hoisting mechanism. R. J. Harry and C. S. Proudfoot. No. 1,370,644; Mar. 8; v. 284; p. 215.
- Hoisting mechanism. H. B. Mills. No. 1,367,142; Feb. 1; v. 283; p. 52.
- Hoisting trolley mechanism. E. Y. Moore. No. 1,384,709; July 12; v. 288; p. 351.
- Holder. H. L. Brown. No. 1,378,807; May 17; v. 286; p. 573.
- Holder. I. J. Jackson. No. 1,401,474; Dec. 27.
- Holder. E. L. Knowles. No. 1,370,122; Mar. 1; v. 284; p. 69.
- Holder. J. E. Mamalakos. No. 1,392,842; Oct. 4.
- Holder. J. R. Nunn. No. 1,376,571; May 3; v. 286; p. 36.
- Holder, Article-. R. E. Perkins. No. 1,365,190; Jan. 11; v. 282; p. 264.
- Holder, Article-. C. F. Robinson. No. 1,367,503; Feb. 1; v. 283; p. 12.
- Holder, Article-. J. A. Rutz. No. 1,364,210; Jan. 4; v. 282; p. 32.
- Holder, Combination-. H. L. Cusick. No. 1,375,569; Apr. 19; v. 285; p. 526.
- Holder, Dishcloth-. E. D. Gardner. No. 1,369,095; Feb. 2; v. 283; p. 576.
- Holder, Fare-box. W. Cox. No. 1,365,817; Jan. 18; v. 282; p. 426.
- Holder, Ice-card. G. H. Noble. No. 1,366,412; Jan. 25; v. 282; p. 585.
- Holder, Soft-collar. F. P. Kintzele. No. 1,385,176; July 19; v. 288; p. 528.
- Holder, Trunk, Hatiron-. G. H. Wheary. No. 1,365,361; Jan. 11; v. 282; p. 297.
- Holder, Match-. H. V. Ashby. No. 1,364,231; Jan. 4; v. 282; p. 36.
- Holder, Paper-. J. W. White. No. 1,364,336; Jan. 4; v. 282; p. 56.
- Holder, Window-sash. W. E. Cook. No. 1,364,721; Jan. 4; v. 282; p. 130.
- Holder and lifter, Combination. F. W. Barron. No. 1,373,703; Apr. 5; v. 285; p. 62.
- Holder and tie. A. H. Eva. No. 1,383,917; July 5; v. 288; p. 136.
- Holder for mirrors and other articles. H. A. Dluguid. No. 1,380,193; May 31; v. 286; p. 982.
- Holder or exhibitor. P. R. Gomoll. No. 1,386,469; Aug. 2; v. 289; p. 99.
- Holding and dispensing device. A. J. Michaels. No. 1,369,693; Feb. 22; v. 283; p. 692.
- Holding device. A. Johnson. No. 1,388,043; Aug. 16; v. 289; p. 536.
- Holding device, Collapsible. W. F. Ohme. No. 1,382,115; June 21; v. 287; p. 450.
- Hollow articles, Machine for inserting pins into. G. P. Singer and R. J. Hickman. No. 1,386,372; Aug. 2; v. 289; p. 80.
- Hollow articles, Method of and apparatus for forming molded. R. W. Borchard. No. 1,377,304; May 10; v. 286; p. 233.
- Hollow pattern and method of producing molds. V. Loughheed. No. 1,364,123; Jan. 4; v. 282; p. 15.
- Hollow-rolled-rim wheel. W. E. Williams. No. 1,379,843; May 31; v. 286; p. 916.



*Alphabetical list of inventions—Continued.*

- Hollow spar, Trussed. J. V. Maxwell and J. P. Seiser. No. 1,400,620; Dec. 20.
- Hollow-walled receptacle. W. J. Casey and A. Haanes. No. 1,374,905; Apr. 19; v. 285; p. 398.
- Hollow ware, Covered. C. Clarke-Bruff. No. 1,370,783; Mar. 8; v. 284; p. 241.
- Hollow ware, Covered. C. Clarke-Bruff. No. 1,384,302; July 12; v. 288; p. 265.
- Hollow ware from pulp, Machine for making. J. B. Young. No. 1,368,217; Feb. 8; v. 283; p. 318.
- Home, office, and apartment indicator. E. White. No. 1,367,790; Feb. 8; v. 283; p. 237.
- Homogeneous products, including films, Producing. H. F. Wilkie. No. 1,400,196; Dec. 13.
- Honeycomb and the art of and the means for making the same, Artificial. G. M. MacDonald. No. 1,383,650; July 5; v. 288; p. 81.
- Honeycomb, Artificial. H. B. Dean. No. 1,389,294; Aug. 30; v. 289; p. 896.
- Honey-extractor. B. M. Crawford. No. 1,392,679; Oct. 4.
- Honey-uncapping machine. E. E. Coveyou. No. 1,378,371; May 17; v. 286; p. 189.
- Hood and scarf, Combined. I. L. Sable. No. 1,399,523; Dec. 6.
- Hood-catch. N. W. Cummins. No. 1,398,319; Nov. 29.
- Hood-clamp. J. W. Bate. No. 1,394,962; Oct. 25.
- Hood-fastener. C. R. Hennicke. No. 1,400,953; Dec. 20.
- Hood-fastener. W. A. Schleicher. No. 1,382,322; June 21; v. 287; p. 489.
- Hoof-trimming tool. J. J. Gilbert. No. 1,399,958; Dec. 13.
- Hook: See—
- |                 |                                 |
|-----------------|---------------------------------|
| Backband-hook.  | Lock snap-hook.                 |
| Bull-hook.      | Locking hook.                   |
| Butt-hook.      | Log safety-hook.                |
| Chain-hook.     | Logging-hook.                   |
| Choker-hook.    | Mail - pouch - suspending hook. |
| Coupling-hook.  | Mud-hook.                       |
| Crane-hook.     | Release-hook.                   |
| Darning-hook.   | Safety coupling-hook.           |
| Door-hook.      | Safety-hook.                    |
| Fishhook.       | Safety key-ring hook.           |
| Grappling-hook. | Safety tug-hook.                |
| Grass-hook.     | Slip-hook.                      |
| Grab-hook.      | Snap-hook.                      |
| Hoisting-hook.  | Suspension-hook.                |
| Husking-hook.   | Switching-cable hook.           |
| Ice-hook.       | Tag-hook.                       |
| Jammer-hook.    | Tatting-hook.                   |
| Ladder-hook.    |                                 |
- Hook. T. J. Bond. No. 1,398,887; Nov. 29.
- Hook. S. J. Gendron. No. 1,369,647; Feb. 22; v. 283; p. 684.
- Hook. C. E. Kent. No. 1,389,833; Sept. 6; v. 290; p. 55.
- Hook. C. Partello. No. 1,399,648; Dec. 6.
- Hook and carrier, Cant-. C. J. Wold. No. 1,390,185; Sept. 6; v. 290; p. 126.
- Hook and eye. D. C. Benton. No. 1,380,519; June 7; v. 287; p. 37.
- Hook and eye. C. Chisholm. No. 1,391,613; Sept. 20; v. 290; p. 568.
- Hook and eye. A. Shaw. No. 1,366,288; Jan. 18; v. 282; p. 518.
- Hook and eye carding device. H. A. Francis. No. 1,374,071; Apr. 5; v. 285; p. 134.
- Hook-and-eye fastener. N. R. Scott. No. 1,378,286; May 17; v. 286; p. 473.
- Hook-and-eye package. J. Waldes. No. 1,390,405; Sept. 13; v. 290; p. 261.
- Hook or eye. B. H. Marcus. No. 1,379,872; May 31; v. 286; p. 921.
- Hook-rack. M. L. Stanford and M. Macaulay. No. 1,380,747; June 7; v. 287; p. 80.
- Hook sewing mechanism, Rotary. R. K. Hohmann. No. 1,364,279; Jan. 4; v. 282; p. 46.
- Hooks, Package for belt-. W. T. Nicholson. No. 1,393,451; Oct. 11.
- Hooking device. W. M. Bateman. No. 1,380,631; June 7; v. 287; p. 58.
- Hoop. R. Reinhard and J. C. Schmitt. No. 1,381,502; June 14; v. 287; p. 275.
- Hoop advertiser, Rolling-. H. Burmann. No. 1,376,601; May 3; v. 286; p. 42.
- Hoop-coupling. W. Ross. No. 1,380,927; June 7; v. 287; p. 115.
- Hoop, Cover-securing. G. H. Bliss. No. 1,378,649; May 17; v. 286; p. 543.
- Hoop-forming machine. R. Richardson. No. 1,369,982; Mar. 1; v. 283; p. 43.
- Hoops on casks, barrels, tubs, and other receptacles. Device for securing. J. F. C. Schaffner. No. 1,386,430; Aug. 2; v. 289; p. 92.
- Hopper and discharge chute. F. P. Vogt. No. 1,401,837; Dec. 27.
- Hopper and sowing mechanism, Seed-drill. E. Bow. No. 1,371,843; Mar. 15; v. 284; p. 411.
- Hoppers, Locking device for dumping-. J. Lockhart. No. 1,373,462; Apr. 19; v. 285; p. 505.
- Hoppers or other receptacles, Indicator for storage-. E. C. Covert. No. 1,379,803; May 31; v. 286; p. 908.
- Hoppers, Rail construction for rolling. A. P. Lee. No. 1,394,905; July 19; v. 288; p. 471.
- Hoppers, Twin gate for. F. B. Allen and M. C. Sherman. No. 1,384,175; July 12; v. 288; p. 239.
- Hopple. E. E. Higley. No. 1,388,465; Aug. 23; v. 289; p. 678.
- Hopple. C. H. Peardon. No. 1,373,349; Mar. 29; v. 284; p. 900.
- Horizon, Artificial. E. G. Flischer. No. 1,386,695; Aug. 9; v. 289; p. 216.
- Horizontal bar, Exercising. G. E. Bardwell and H. L. Fuller. No. 1,366,155; Jan. 18; v. 282; p. 492.
- Horn. H. R. Saxon and C. J. Schwarze. No. 1,386,804; Aug. 9; v. 289; p. 238.
- Horn-actions, Means for adjusting. M. V. Hawkins. No. 1,367,386; Feb. 1; v. 283; p. 100.
- Horn block, Safety-. G. M. Johnson. No. 1,372,753; Mar. 29; v. 284; p. 780.
- Horn, Diaphragm-. J. E. Storms. No. 1,365,563; Jan. 11; v. 282; p. 337.
- Horn-like caseln masses, Apparatus for the manufacture of transparent. A. Bartels. No. 1,375,624; Apr. 19; v. 285; p. 536.
- Horn-like masses from caseln, Apparatus for the manufacture of. A. Bartels. No. 1,375,623; Apr. 19; v. 285; p. 536.
- Horn, Mechanical. D. A. McConnell. No. 1,378,124; May 17; v. 286; p. 443.
- Horn, Mechanically-actuated. G. J. Seiss. No. 1,382,390; June 21; v. 287; p. 503.
- Horn-mute. G. B. Humes. No. 1,387,490; Aug. 16; v. 289; p. 426.
- Horn-operating means, Diaphragm-. A. B. Silvia. No. 1,384,977; July 19; v. 288; p. 487.
- Horn, Pneumatic. W. A. Garratt. No. 1,391,887; Sept. 27; v. 290; p. 696.
- Horn-reed. I. Marks. No. 1,390,305; Sept. 13; v. 290; p. 241.
- Horn-shell and bracket. G. R. Marsico. No. 1,391,688; Sept. 27; v. 290; p. 656.
- Horn, Sound warning-. L. E. Cowey. No. 1,370,787; Mar. 8; v. 284; p. 242.
- Horn, Talking-machine. G. P. Theis. No. 1,370,382; Mar. 1; v. 284; p. 119.
- Horn water-resisting, Making the coloring of natural. M. Lambeck. No. 1,395,191; Oct. 25.
- Horse-collar. B. C. Winston. No. 1,383,507; July 5; v. 288; p. 51.
- Horse-detacher. J. Kirkland. No. 1,386,005; Aug. 2; v. 289; p. 8.
- Horse-hitch. M. F. Morgan. No. 1,378,482; May 17; v. 286; p. 510.
- Horse, Mechanical. C. M. Dahl. No. 1,369,628; Feb. 22; v. 283; p. 680.
- Horse, Mechanical riding-. D. G. Finley. No. 1,366,372; Jan. 25; v. 282; p. 577.
- Horse or trestle, Builders'. J. Milnes, Jr. No. 1,377,425; May 10; v. 286; p. 257.
- Horse, Rocking-. F. Lagelbauer. No. 1,383,468; July 5; v. 288; p. 44.
- Horse, Rocking-. J. H. Webb. No. 1,370,569; Mar. 8; v. 284; p. 199.
- Horses, Antislipping shoe for. E. A. Conner. No. 1,380,705; June 7; v. 287; p. 72.
- Horseshoe. W. J. Cahill. No. 1,396,405; Nov. 8.
- Horseshoe. M. L. Farry. No. 1,378,942; May 24; v. 286; p. 672.
- Horseshoe. T. H. Freeman. No. 1,378,779; May 17; v. 286; p. 568.
- Horseshoe. H. A. Frey. No. 1,386,613; Aug. 9; v. 289; p. 199.
- Horseshoe. J. Haller. No. 1,397,046; Nov. 15.
- Horseshoe. B. Harris and W. Van Buren. No. 1,401,074; Dec. 20.
- Horseshoe. J. Hirschenfeld. No. 1,375,096; Apr. 19; v. 285; p. 436.
- Horseshoe. M. Jicha. No. 1,381,642; June 14; v. 287; p. 302.
- Horseshoe. L. M. Musselman. No. 1,388,477; Aug. 23; v. 289; p. 680.
- Horseshoe. J. P. Slater. No. 1,390,171; Sept. 6; v. 290; p. 123.
- Horseshoe. M. Witushen. No. 1,383,508; July 5; v. 288; p. 51.
- Horseshoe-calk. E. T. Gowing. No. 1,374,848; Apr. 12; v. 285; p. 325.
- Horseshoe-calk. J. O. Nygaard. No. 1,391,490; Sept. 20; v. 290; p. 543.
- Horseshoe-calk. R. S. Rice. No. 1,367,430; Feb. 1; v. 283; p. 109.
- Horseshoe-pad. E. Sinfeld and W. H. Goldfinch. No. 1,391,655; Sept. 20; v. 290; p. 577.
- Horseshoe, Removable. H. D. Gobin. No. 1,375,428; Apr. 19; v. 285; p. 499.
- Horseshoes, Calk attachment for. J. D. Douglass. No. 1,373,118; Mar. 29; v. 284; p. 853.
- Hose and faucet coupling. C. T. Boone. No. 1,369,162; Feb. 22; v. 283; p. 589.
- Hose and other clamp. H. Turner, Sr. No. 1,399,416; Dec. 6.
- Hose, &c., Machine for mercerizing. A. E. Hawley, P. F. Crossland, and F. G. Dixon. No. 1,400,159; Dec. 13.
- Hose-band. W. A. Osley. No. 1,372,629; Mar. 22; v. 284; p. 715.
- Hose-banding device. R. D. Wirt. No. 1,393,988; Oct. 18.



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Hose-coupling. G. Klumpp. No. 1,386,260; Aug. 2; v. 289; p. 59.  
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- Hub-odometer drive. R. R. Karich. No. 1,368,504; Feb. 15; v. 283; p. 422.
- Hub, Quick-detachable-vehicle-wheel. C. S. Ash. No. 1,382,881; June 28; v. 287; p. 650.
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- Hub-plate, Adjustable. C. W. Dake. No. 1,393,884; Oct. 18.
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- Hubs, Making. M. Skolnik. No. 1,385,231; July 19; v. 288; p. 539.
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- Humidifier. L. G. Holtschneider. No. 1,380,208; May 31; v. 286; p. 984.
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- Humidifier. L. A. Smith. No. 1,368,365; Feb. 15; v. 283; p. 395.
- Humidifier. J. E. Whitacre. No. 1,393,058; Oct. 11.
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- Hunter's chair. J. Gaj. No. 1,377,063; May 3; v. 286; p. 130.
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- Huskers, Feeding-pan for. J. M. Laffey. No. 1,368,266; Feb. 15; v. 283; p. 376.
- Huskers, shredders, and cutters, Self-feeder for. A. Berkmeyer. No. 1,396,015; Nov. 8.
- Husking-hook. J. M. Koziol. No. 1,388,580; Aug. 23; v. 289; p. 699.
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- Hut and other collapsible structure, Collapsible. J. Blaschek. No. 1,392,110; Sept. 27; v. 290; p. 744.
- Hydrant, Duplex. H. I. Acker. No. 1,388,785; Aug. 23; v. 289; p. 740.
- Hydraulic cylinders, Quick-removable breech-block for. C. T. Ericsson. No. 1,369,014; Feb. 22; v. 283; p. 560.
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- Hydraulic jack. G. Capell. No. 1,364,865; Jan. 11; v. 282; p. 202.
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- Hydraulic presses, Safety device for. W. L. Riedy. No. 1,384,848; July 12; v. 288; p. 275.
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- Hydraulic toggle-press. G. W. Prouty. No. 1,382,386; June 21; v. 287; p. 502.
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- Hydroairplane landing-gear. W. L. Gilmore and J. F. Meade. No. 1,382,421; June 21; v. 287; p. 509.
- Hydroairship. C. E. Labadie. No. 1,382,094; June 21; v. 287; p. 447.
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- Hydrocarbon-burner. C. F. Colmar. No. 1,365,816; Jan. 18; v. 282; p. 426.
- Hydrocarbon-burner. W. M. Hoffman. Nos. 1,401,403-4; Dec. 27.
- Hydrocarbon-burner. P. B. Johnson. No. 1,381,560; June 14; v. 287; p. 287.
- Hydrocarbon-burner. A. Kaufman. No. 1,395,187; Oct. 25.
- Hydrocarbon-burner. J. F. Lawrence. No. 1,396,854; Nov. 15.
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- Hydrocarbon-burner. E. G. Mummery. No. 1,373,144; Mar. 29; v. 284; p. 858.
- Hydrocarbon-burner. H. F. Richter. No. 1,388,604; Aug. 23; v. 289; p. 704.
- Hydrocarbon-burner. W. E. and H. J. Thomas. No. 1,386,448; Aug. 2; v. 289; p. 94.
- Hydrocarbon compounds, Halogenating. C. C. Loomis. No. 1,384,990; July 19; v. 288; p. 472.
- Hydrocarbon distillates, Treatment of. W. J. Hoffman. No. 1,367,968; Feb. 8; v. 283; p. 270.
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- Hydrocarbon gases containing olefins, Making reactive acid liquor from. M. D. Mann, Jr., and R. B. Williams. No. 1,365,043; Jan. 11; v. 282; p. 237.
- Hydrocarbon generators and burners, Igniting and controlling device for. G. N. Blanchard. No. 1,394,807; Oct. 25.
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- Hydrocarbon-motor. H. D. Church. No. 1,377,874; May 10; v. 286; p. 343.
- Hydrocarbon-motor. H. D. Church. No. 1,382,953; June 28; v. 287; p. 664.
- Hydrocarbon-motor. H. D. Church. No. 1,382,954; June 28; v. 287; p. 664.
- Hydrocarbon-motor. H. D. Church. No. 1,398,361; Nov. 29.
- Hydrocarbon-motor. C. F. Johnson. No. 1,377,352; May 10; v. 286; p. 243.
- Hydrocarbon-motor. C. R. Short. No. 1,375,067; Apr. 19; v. 285; p. 430.
- Hydrocarbon-motor. C. R. Short. No. 1,377,369; May 10; v. 286; p. 246.
- Hydrocarbon-motor. C. R. Short. Nos. 1,393,913-4; Oct. 18.
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- Hydrocarbon-motor. L. K. Snell. No. 1,392,534; Oct. 4.
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- Hydrocarbon-motor. D. M. White. No. 1,381,150; June 14; v. 287; p. 211.
- Hydrocarbon-motor. D. M. White. No. 1,396,904; Nov. 15.
- Hydrocarbon-motor. L. M. Woolson. No. 1,382,946; June 28; v. 287; p. 663.
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- Impregnator. J. R. Wheeler. No. 1,398,212; Nov. 22.
- Impression-adjusting and blanket-ironing device. O. L. Raabe. No. 1,396,056; Nov. 8.
- Impulse-coupling. A. D. T. Libby. No. 1,390,146; Sept. 6; v. 290; p. 118.
- Impulse-coupling. W. E. Schwarzmann and C. F. Toren. No. 1,393,703; Oct. 11.
- Impulses, Device for producing actuating. G. H. Lang. No. 1,383,549; July 5; v. 288; p. 60.
- Incandescent lights, Holders for. W. A. Raymond. No. 1,382,235; June 21; v. 287; p. 473.



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- Incendiary mixture. W. T. Scheele. No. 1,382,804; June 28; v. 287; p. 636.  
 Incendiary mixture. W. T. Scheele. No. 1,382,805; June 28; v. 287; p. 636.  
 Incendiary mixture. W. T. Scheele. No. 1,382,806; June 28; v. 287; p. 636.  
 Incendiary mixture. W. T. Scheele. No. 1,382,807; June 28; v. 287; p. 637.  
 Incinerating-furnace. W. Fetzner, J. G. Freres, and O. A. Elliott. No. 1,398,184; Nov. 22.  
 Incinerator. J. Goder. No. 1,398,718; Nov. 29.  
 Incinerator, Garbage. M. A. Kohn. No. 1,368,809; Feb. 15; v. 283; p. 481.  
 Incinerator, Household. R. S. Scott. No. 1,364,456; Jan. 4; v. 282; p. 80.  
 Incinerator, Knockdown concrete. L. G. Haase. No. 1,372,424; Mar. 22; v. 284; p. 676.  
 Incline-indicator. W. S. Clayton. No. 1,375,278; Apr. 19; v. 285; p. 470.  
 Inclometer. J. A. Herring. No. 1,383,946; July 5; v. 288; p. 142.  
 Inclometer. A. Peradotto. No. 1,397,490; Nov. 15.  
 Incubator, Dead-beat. E. A. Sperry. No. 1,366,430; Jan. 25; v. 282; p. 589.  
 Inclosed rack. C. T. Hatch, Jr. No. 1,382,907; June 28; v. 287; p. 655.  
 Inclosed switch. S. A. Meyers and C. Parker. No. 1,382,210; June 21; v. 287; p. 468.  
 Inclosures, Corner structure for. J. K. Shaw. No. 1,376,588; May 3; v. 286; p. 40.  
 Incubator. J. S. Brower. No. 1,401,756; Dec. 27.  
 Incubator. E. D. Charters. (Reissue) No. 15,247; Dec. 20.  
 Incubator. W. C. Fritz. No. 1,392,566; Oct. 4.  
 Incubator. H. Gentis. No. 1,395,955; Nov. 1.  
 Incubator. P. Kaiser. No. 1,369,816; Mar. 1; v. 284; p. 12.  
 Incubator. G. C. and C. Kitchen. No. 1,368,562; Feb. 15; v. 283; p. 434.  
 Incubator. J. Kovar. No. 1,392,177; Sept. 27; v. 290; p. 755.  
 Incubator-alarm. W. H. Clarke. No. 1,398,537; Nov. 29.  
 Incubator-alarm. A. Olson. No. 1,384,628; July 12; v. 288; p. 334.  
 Incubator and brooder. O. W. Herd. No. 1,386,569; Aug. 2; v. 289; p. 118.  
 Incubator and brooder, Combined. J. R. Myers. No. 1,384,084; July 12; v. 288; p. 220.  
 Incubator, Electric. J. A. Howard, Sr. No. 1,393,531; Oct. 11.  
 Incubator, Electrically-heated. A. de Khotinsky. No. 1,381,109; June 14; v. 287; p. 203.  
 Incubator-heating system. J. D. Julius. No. 1,399,865; Dec. 13.  
 Incubator, Hot-water electric. J. L. Nungester. No. 1,385,886; July 26; v. 288; p. 748.  
 Incubator-tray. A. B. and L. L. Stevenson. No. 1,391,865; Sept. 27; v. 290; p. 693.  
 Incubators and brooders, Temperature-regulating device for. E. D. Charters. No. 1,386,990; Aug. 9; v. 289; p. 276.  
 Incubators, Automatic heat-regulator for. C. Wiedner. No. 1,373,282; Mar. 29; v. 284; p. 886.  
 Incubators, Electric heating and regulating device for. W. G. Nelson. No. 1,388,966; Aug. 30; v. 289; p. 830.  
 Incubators, Heater for. H. M. Sheer. No. 1,392,709; Oct. 4.  
 Indent harness-gage. C. M. Zubler. No. 1,393,989; Oct. 18.  
 Identifying means. M. Dumais. No. 1,381,975; June 21; v. 287; p. 426.  
 Index. E. W. Davis. No. 1,391,720; Sept. 27; v. 290; p. 663.  
 Index. J. H. Rand, Jr. No. 1,386,203; Aug. 2; v. 289; p. 48.  
 Index. C. A. Mezger. No. 1,362,131; Jan. 4; v. 282; p. 16.  
 Index, Book-. P. O. Kuehn. No. 1,390,623; Sept. 13; v. 290; p. 306.  
 Index, Card-. S. Faith and E. N. Boucher. No. 1,367,030; Feb. 1; v. 283; p. 29.  
 Index, Card-. J. Welbon. No. 1,388,080; Aug. 16; v. 289; p. 543.  
 Index-card-locking device. H. C. Jones. No. 1,367,550; Feb. 8; v. 283; p. 190.  
 Index-center. F. C. Dickow. No. 1,383,698; July 5; v. 288; p. 92.  
 Index device. J. Barker. No. 1,384,882; July 19; v. 288; p. 467.  
 Index drawers, Adjustable compressor for card-. J. E. Ebrezn. No. 1,367,245; Feb. 1; v. 283; p. 72.  
 Index-hand, Self-luminous. A. L. Hamlin. No. 1,364,368; Jan. 4; v. 282; p. 62.  
 Index-head. A. R. Neff. No. 1,377,720; May 10; v. 286; p. 312.  
 Index mechanism. E. Nordstrom. No. 1,383,331; July 5; v. 288; p. 15.  
 Index or filing system, Follow-up. S. W. McKee. No. 1,369,255; Feb. 22; v. 283; p. 607.  
 Index or reference device, Card-. J. H. Rand, Jr. No. 1,367,327; Feb. 1; v. 283; p. 88.  
 Index system, Card-. J. H. Rand, Jr. No. 1,397,982; Nov. 22.  
 Index-tab. J. L. Burgoyne. No. 1,400,862; Dec. 20.  
 Index-tab. J. S. Duncan. No. 1,390,026; Sept. 6; v. 290; p. 94.  
 Index, Visible. F. L. MacDonagh. No. 1,375,464; Apr. 19; v. 285; p. 506.  
 Indexing device. J. R. Beckett. No. 1,387,756; Aug. 16; v. 289; p. 480.  
 Indexing device. S. C. Moran. No. 1,365,935; Jan. 18; v. 282; p. 449.  
 Indexing machine, Book-. W. Farkas and C. Grebenstein. No. 1,381,814; June 14; v. 287; p. 335.  
 Indexing, Marginal. J. J. Hebek. No. 1,383,120; June 28; v. 287; p. 696.  
 Indexing, Means for mechanical. A. R. Ferguson. No. 1,367,311; Feb. 1; v. 283; p. 85.  
 Indian club. F. Nowak. No. 1,399,071; Dec. 6.  
 Indicating and identifying means. W. Ganley. No. 1,377,065; May 3; v. 286; p. 131.  
 Indicating apparatus. S. Walker. No. 1,374,788; Apr. 12; v. 285; p. 313.  
 Indicating apparatus, Automatic. J. A. Zahar and R. A. L. Volel. No. 1,384,653; July 12; v. 288; p. 339.  
 Indicating device. E. B. Clark. No. 1,393,500; Oct. 11.  
 Indicating device. E. Seignol. No. 1,391,279; Sept. 20; v. 290; p. 501.  
 Indicating mechanism. C. R. Underhill. No. 1,386,915; Aug. 9; v. 289; p. 261.  
 Indicating mechanism. E. F. Watson. No. 1,386,977; Aug. 9; v. 289; p. 273.  
 Indicating mechanism. F. W. Wood. No. 1,400,199; Dec. 13.  
 Indicating-signal. P. Roussey. No. 1,370,487; Mar. 1; v. 284; p. 189.  
 Indicating system. L. Polinkowsky. No. 1,388,887; Aug. 30; v. 289; p. 814.  
 Indicator: See—  
 Aeroplane level or position indicator.  
 Aeroplane speed-indicator.  
 Automobile direction-indicator.  
 Automobile temperature-indicator.  
 Basket-ball goal-indicator.  
 Calendar or date-indicator.  
 Changeable indicator.  
 Course-indicator.  
 Current-density indicator.  
 Date-indicator.  
 Dial-indicator.  
 Dining-table service-indicator.  
 Direction-indicator.  
 Electric indicator.  
 Engine-indicator.  
 Exposure-indicator.  
 Fire-deflation indicator.  
 Flow-indicator.  
 Fluid-level indicator.  
 Force and danger indicator.  
 Fountain-pen indicator.  
 Fuel-indicator.  
 Gasolene-tank indicator.  
 Grade-indicator.  
 Home, office, and apartment indicator.  
 Incline-indicator.  
 Key-indicator.  
 Indicator. C. M. Deming. No. 1,377,006; May 3; v. 286; p. 119.  
 Indicator. J. W. Elvyn. No. 1,364,986; Jan. 11; v. 282; p. 225.  
 Indicator. A. F. Ferrand. No. 1,373,319; Mar. 29; v. 284; p. 894.  
 Indicator. F. Hedley and J. S. Doyle. No. 1,375,962; Apr. 26; v. 285; p. 633.  
 Indicator. F. R. Heil and A. J. Bossert. No. 1,400,436; Dec. 13.  
 Indicator. T. Lewis and F. C. Scrimger. No. 1,390,570; Sept. 13; v. 290; p. 294.  
 Indicator. W. B. Lindsey. No. 1,372,522; Mar. 22; v. 284; p. 694.  
 Indicator. B. F. McGlothlen. No. 1,380,227; May 31; v. 286; p. 988.  
 Indicator. J. J. Reid. No. 1,396,383; Nov. 8.  
 Indicator. R. L. Skinner. No. 1,389,909; Sept. 6; v. 290; p. 71.  
 Indicator. H. A. Soderberg. No. 1,401,006; Dec. 20.  
 Indicator for operating changes. H. E. McDonnell. No. 1,372,970; Mar. 29; v. 284; p. 825.  
 Indicator mechanism. M. Tibbetts. No. 1,391,146; Sept. 20; v. 290; p. 474.  
 Indicator-post. H. M. Lofton. No. 1,386,065; Aug. 2; v. 289; p. 21.  
 Inductance-coil mounting. R. F. Gowen. No. 1,365,170; Jan. 11; v. 282; p. 260.  
 Inductance device. E. T. Turney. No. 1,372,850; Mar. 29; v. 284; p. 800.  
 Induction apparatus, Stationary. J. A. Seede. No. 1,397,298; Nov. 15.  
 Induction apparatus, Stationary. E. A. Wagner. No. 1,382,873; June 28; v. 287; p. 649.  
 License-indicator.  
 Liquid gage and indicator.  
 Liquid-level indicator.  
 Mail-box indicator.  
 Micrometric indicator.  
 Money-value indicator.  
 Railway-brake indicator.  
 Railway-station indicator.  
 Range-indicator.  
 Range and bearing indicator.  
 Speed change-gear indicator.  
 Speed-indicator.  
 Spring-motor indicator.  
 Station-indicator.  
 Street-indicator.  
 Street or station indicator.  
 Surface and center indicator.  
 Synchronism-indicator.  
 Tank-filler and contents-indicator.  
 Telegraphic indicator.  
 Test-indicator.  
 Time-indicator.  
 Traffic-indicator.  
 Vehicle direction-indicator.  
 Vending-machine indicator.  
 Water-level indicator.  
 Weather-indicator.  
 Working-time indicator.



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- Induction-coil. S. D. Livingston. No. 1,370,502; Mar. 1; v. 284; p. 141.
- Induction-coil. G. Peplinski. No. 1,398,793; Nov. 29.
- Induction-coil. J. B. Replogle. No. 1,401,493; Dec. 27.
- Induction-coils, Current-controller for. P. R. Werner. No. 1,364,167; Jan. 4; v. 282; p. 23.
- Induction-heater. O. A. Colby. No. 1,401,673; Dec. 27.
- Induction liquid-heater. O. A. Colby. No. 1,367,125; Feb. 1; v. 283; p. 48.
- Induction-machines, Method and apparatus for operating. R. E. Hellmund. No. 1,376,434; May 3; v. 286; p. 11.
- Induction-machines, System of control for. R. E. Hellmund. No. 1,376,432; May 3; v. 286; p. 11.
- Induction-machines, System of control for. R. E. Hellmund. No. 1,398,515; Nov. 29.
- Induction-motor. T. Isono. No. 1,396,579; Nov. 8.
- Induction-motor. A. Kimble. No. 1,375,461; Apr. 19; v. 285; p. 505.
- Induction-motor. J. Martin. No. 1,366,580; Jan. 25; v. 282; p. 620.
- Induction-motor control. C. Le G. Fortescue. No. 1,374,559; Apr. 12; v. 285; p. 269.
- Induction-motors, Constructing secondary members for. I. H. Mills. No. 1,371,569; Mar. 15; v. 284; p. 457.
- Induction-motors, Constructing secondary members for. I. H. Mills. No. 1,371,570; Mar. 15; v. 289; p. 457.
- Induction-motors, Secondary winding for. H. Bewlay. No. 1,381,785; June 14; v. 287; p. 329.
- Induction-motors, Winding structure for multispeed. H. L. Barnholdt. No. 1,387,458; Aug. 16; v. 289; p. 419.
- Industrial car. J. Allison. No. 1,368,681; Feb. 15; v. 283; p. 457.
- Infant's table. H. G. Truesdell and M. H. Van Wormer. No. 1,391,650; Sept. 20; v. 290; p. 576.
- Inflatable fabric boat and bed or cushion. C. F. Smyth. No. 1,392,533; Oct. 4.
- Inflating-coupling. H. P. Kraft. No. 1,364,440; Jan. 4; v. 282; p. 77.
- Inflating-coupling. H. P. Kraft. No. 1,364,441; Jan. 4; v. 282; p. 77.
- Inflating-coupling. H. P. Kraft. No. 1,370,128; Mar. 1; v. 284; p. 70.
- Inflating-coupling. M. C. Schweinert and H. P. Kraft. No. 1,374,397; Apr. 12; v. 285; p. 238.
- Information device. W. C. Cutler. No. 1,381,860; June 14; v. 287; p. 343.
- Information device, Automatic. W. C. Cutler. No. 1,384,306; July 12; v. 288; p. 266.
- Information-displaying device. W. C. Cutler. No. 1,380,290; May 31; v. 286; p. 1000.
- Ingot-mold. O. A. Fogarty. No. 1,377,962; May 10; v. 286; p. 360.
- Ingot-mold and making same. R. G. Coates. No. 1,376,403; May 3; v. 286; p. 5.
- Ingot-mold, Reinforced. R. G. Coates. No. 1,376,402; May 3; v. 286; p. 5.
- Ingot-molds, Feeder for. B. H. Howard and E. J. Turner. No. 1,394,415; Oct. 18.
- Ingot-molds, Hot-top for. T. McNally and W. S. Orr. No. 1,398,874; Nov. 29.
- Ingots, Perfecting. F. G. Gasche. No. 1,368,332; Feb. 15; v. 283; p. 388.
- Ingot-pouring mechanism. S. B. Sheldon. No. 1,401,928; Dec. 27.
- Ingot-stripping mechanism. G. L. Danforth, Jr. No. 1,398,844; Nov. 29.
- Ingots and other heavy steel castings, Mold for. R. Village. No. 1,388,534; Aug. 23; v. 289; p. 691.
- Ingots at rolling-mills, Apparatus for automatic manipulation of metal. E. W. Davies. No. 1,394,671; Oct. 25.
- Ingots, Box for pouring steel. W. D. Bradford. No. 1,398,584; Nov. 29.
- Ingots, Machine for perfecting. F. G. Gasche. No. 1,389,300; Aug. 30; v. 289; p. 897.
- Ingots to pressure, Apparatus for subjecting cast-metal. A. Tedesco. No. 1,364,655; Jan. 4; v. 282; p. 117.
- Inhalation device. J. H. Williams. No. 1,387,030; Aug. 9; v. 289; p. 284.
- Inhaler. F. C. Dormont. No. 1,369,916; Mar. 1; v. 284; p. 31.
- Inhaler. W. H. Schaefer. No. 1,375,325; Apr. 19; v. 285; p. 470.
- Injector. P. J. Creasey. No. 1,383,985; July 5; v. 288; p. 151.
- Injector-controlling valve. A. Fuller. No. 1,365,476; Jan. 11; v. 282; p. 320.
- Ink. H. and W. C. Kruse. No. 1,381,648; June 14; v. 287; p. 303.
- Ink and producing same, Printing. H. A. Barmier. No. 1,383,512; July 5; v. 288; p. 52.
- Ink-bottle. M. L. Kayser. No. 1,377,588; May 10; v. 286; p. 287.
- Ink-rollers, Device for regulating the temperature of. W. S. Warnock. No. 1,369,507; Feb. 22; v. 283; p. 655.
- Ink-stick. J. C. Olsen. No. 1,364,406; Jan. 4; v. 282; p. 70.
- Inking apparatus, Mechanical. C. F. Weldon. No. 1,401,218; Dec. 27.
- Inking-machine. L. J. Van Guelpen. No. 1,398,407; Nov. 29.
- Inking mechanism. A. H. Pitney. No. 1,377,853; May 10; v. 286; p. 339.
- Inking mechanism. A. D. Saborsky. No. 1,377,142; May 3; v. 286; p. 145.
- Inking mechanism. J. J. Walser and H. Fankboner. No. 1,376,983; May 3; v. 286; p. 115.
- Inking-pad. A. Woodruff. No. 1,381,156; June 14; v. 287; p. 212.
- Inking-reel. A. J. Weid. No. 1,377,532; May 10; v. 286; p. 276.
- Inking-roller. A. R. Colgin. No. 1,375,629; Apr. 19; v. 285; p. 537.
- Inking-roller. C. L. Post. No. 1,398,910; Nov. 29.
- Inking-roller. F. Smith. No. 1,370,709; Mar. 8; v. 284; p. 227.
- Inkstand. F. A. Fuller. No. 1,389,650; Sept. 6; v. 290; p. 18.
- Inkstand. M. Van Buren. No. 1,371,955; Mar. 15; v. 284; p. 529.
- Inkwell. R. Harding. No. 1,386,108; Aug. 2; v. 289; p. 29.
- Inkwell. W. H. Lucas. No. 1,371,103; Mar. 8; v. 284; p. 301.
- Inner-cushioned wheel. F. Mead. No. 1,401,421; Dec. 27.
- Inner tube. R. B. Disbrow. No. 1,384,244; July 12; v. 288; p. 253.
- Inner tube. L. H. Lightfoot. No. 1,395,439; Nov. 1.
- Inner tube and making same. J. M. Combs. No. 1,398,940; Nov. 29.
- Inner-tube carrier. J. M. Mills. No. 1,371,045; Mar. 8; v. 284; p. 290.
- Insect attracting and exterminating device. H. F. Rhoads. No. 1,375,016; Apr. 19; v. 285; p. 420.
- Insect-catcher. B. R. Jolly. No. 1,377,201; May 10; v. 286; p. 212.
- Insect-catcher. W. C. Ryan and G. C. Ruhmann. No. 1,396,345; Nov. 8.
- Insect-destroyer. B. Heller. No. 1,394,497; Oct. 18.
- Insect-destroyer. J. A. Radcliff. No. 1,370,496; Mar. 1; v. 284; p. 141.
- Insect-exterminator. W. F. Lackie. No. 1,397,218; Nov. 15.
- Insect-exterminator. M. E. Schenke. No. 1,372,780; Mar. 29; v. 284; p. 786.
- Insect-killer. F. W. Wallace. No. 1,400,782; Dec. 20.
- Insect-killing device. G. W. Gomer. (Reissue.) No. 1,154; July 19; v. 288; p. 563.
- Insect-protector. L. W. Stevens. No. 1,390,734; Sept. 13; v. 290; p. 328.
- Insect-trap. J. S. Helling. No. 1,369,429; Feb. 22; v. 283; p. 641.
- Insect-trap. M. Karbouski. No. 1,386,408; Aug. 2; v. 289; p. 87.
- Insect-trap. R. G. Koch. No. 1,394,626; Oct. 25.
- Insect-trap. J. E. Maziarz. No. 1,378,048; May 17; v. 286; p. 428.
- Insect-trap. E. F. Parks. No. 1,380,585; June 7; v. 287; p. 49.
- Insect-trap. F. H. Schultz. No. 1,367,100; Feb. 1; v. 283; p. 43.
- Insect-trap. I. Smedberg. No. 1,368,767; Feb. 15; v. 283; p. 474.
- Insect-trap. A. Gardon. No. 1,385,207; July 19; v. 288; p. 534.
- Insects, Composition for repelling. J. I. Leist. No. 1,375,220; Apr. 19; v. 285; p. 459.
- Insects, flies, &c., Implement or device for killing or disabling. A. W. Cash. No. 1,380,355; June 7; v. 287; p. 6.
- Insecticide. A. Constantin. No. 1,390,088; Sept. 6; v. 290; p. 107.
- Insecticide. W. Moore. No. 1,376,153; Apr. 26; v. 285; p. 669.
- Insecticide. J. F. Moseley. No. 1,395,860; Nov. 1.
- Insecticide and disinfectant. A. D. Shreve. No. 1,399,585; Dec. 6.
- Insecticide and fumigation process. J. D. Neuls. No. 1,381,586; June 14; v. 287; p. 291.
- Insecticide-holder. H. G. Irwin. No. 1,377,077; May 3; v. 286; p. 133.
- Inserting fastenings, Machine for. G. Goddu and F. L. Mackenzie. No. 1,401,247; Dec. 27.
- Inserting machine, Fastener-forming mechanism for fastener. G. A. and S. A. Dobyne. No. 1,377,759; May 10; v. 286; p. 320.
- Inserting machine, Fastening. F. L. Mackenzie. No. 1,399,205; Aug. 30; v. 289; p. 878.
- Inserting machines, Channel-opening device for fastening. F. L. Mackenzie. No. 1,375,795; Apr. 26; v. 285; p. 600.
- Inside pipe-cutter. T. J. Fonda. No. 1,379,545; May 24; v. 286; p. 785.
- Insole. H. A. Davenport. No. 1,387,691; Aug. 16; v. 289; p. 467.
- Insole and making. D. W. Bunker and C. M. Bradford. No. 1,382,818; June 23; v. 287; p. 639.
- Insole and making same. G. H. Black. No. 1,392,906; Oct. 11.
- Insole and making same. F. C. Fix. No. 1,365,390; Jan. 11; v. 282; p. 303.
- Insole, Arch-supporting. H. C. Egerton. No. 1,370,799; Mar. 8; v. 284; p. 244.
- Insole-hip turner. F. C. Fix. No. 1,380,098; May 31; v. 286; p. 964.



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- Insole, Machine for shaping the lip of an. H. A. Sadler. No. 1,364,845; Jan. 4; v. 282; p. 15.
- Insole-trimming machine. F. C. Fix. No. 1,367,870; Feb. 8; v. 283; p. 252.
- Insoles, Machine for preparing. A. E. Johnson. No. 1,384,804; July 19; v. 288; p. 451.
- Insoles, Machine for preparing. A. E. Johnson. No. 1,394,905; Oct. 25.
- Instruction device. A. N. Parran. No. 1,370,607; Mar. 8; v. 284; p. 207.
- Instrument. H. H. Boyce. No. 1,385,661; July 26; v. 288; p. 703.
- Instrument, Combination. K. Kurose. No. 1,368,944; Feb. 15; v. 283; p. 507.
- Instrument, Flash-point-testing. W. M. Pestel. No. 1,364,517; Jan. 4; v. 282; p. 92.
- Instrument of precision. R. A. Aldeen and S. Hillman. No. 1,392,734; Oct. 4.
- Instrument, Stringed musical. R. F. Surratt. No. 1,364,217; Jan. 4; v. 282; p. 33.
- Insulated squirrel-cage winding. A. Kimble. No. 1,375,007; Apr. 19; v. 285; p. 418.
- Insulated stem and joint, Combined. P. F. Connolly. No. 1,377,318; May 10; v. 286; p. 236.
- Insulated wire, Apparatus for handling reels or spools of. F. H. Hendey. No. 1,370,535; Mar. 8; v. 284; p. 193.
- Insulating and building material and producing same. T. A. Eklund and C. G. Löfveberg. No. 1,392,127; Sept. 27; v. 290; p. 746.
- Insulating-coil and making same. J. E. Mateer. No. 1,389,149; Aug. 30; v. 289; p. 867.
- Insulating collector-spool. L. Steinberger. No. 1,382,609; June 21; v. 287; p. 545.
- Insulating composition, Making. O. Gerlach. No. 1,381,118; June 14; v. 287; p. 205.
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- Insulating end plate. L. B. Cole. No. 1,397,363; Nov. 15.
- Insulating end post. E. F. Schermerhorn and William P. Thompson. No. 1,376,647; May 3; v. 286; p. 50.
- Insulating fabric. F. A. Gilcrest. No. 1,371,755; Mar. 15; v. 284; p. 491.
- Insulating material. L. McCulloch. No. 1,386,008; Aug. 2; v. 289; p. 9.
- Insulating material. J. J. Wangenstein and H. Fegraeus. No. 1,379,143; May 24; v. 286; p. 710.
- Insulating material and making same. Heat. C. H. Bennett, J. F. Palmer, and F. V. Wedlock. No. 1,371,016; Mar. 8; v. 284; p. 285.
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- Insulating metal particles. G. W. Elmen. No. 1,383,703; July 5; v. 288; p. 92.
- Insulating or impregnating compounds, Container. W. A. Timm. No. 1,386,912; Aug. 9; v. 289; p. 261.
- Insulating-pane. I. M. Kirlin. No. 1,370,974; Mar. 8; v. 284; p. 277.
- Insulating supporting-blocks, Manufacture of. A. G. Jillard and S. Bracken. No. 1,396,759; Nov. 15.
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- Insulation, Refractory. P. G. Willets. No. 1,374,538; Apr. 12; v. 285; p. 265.
- Insulation-testing device, Commutator. J. F. Cullin. No. 1,372,945; Mar. 29; v. 284; p. 820.
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- Insulator. C. Le G. Fortesque and G. I. Gilcrest. No. 1,374,998; Apr. 19; v. 285; p. 416.
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- Insulator. C. H. Thomas. No. 1,388,217; Aug. 23; v. 289; p. 627.
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- Insulator connector. H. T. Pierce and A. D. McPhee. No. 1,375,974; Apr. 26; v. 285; p. 635.
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- Asphalt-smoothing iron.
- Chair-iron.
- Climbing-iron.
- Curling-iron.
- Door-iron.
- Electric iron.
- Electric sadiron.
- Electrically-heated soldering-iron.
- Flat-iron.
- Gas-iron.
- Heat-resisting iron.
- Laundry-iron.
- Perforating-iron.
- Pressing-iron.
- Puff-iron.
- Rust-resisting alloy of iron.
- Sadiron.
- Self-heating smoothing-iron.
- Soldering-iron.
- Stay-iron.
- Welding cast-iron.
- Iron and grate, Combination barbecue. A. H. Froom. No. 1,384,250; July 12; v. 288; p. 255.
- Iron and steel, Method of and apparatus for the production of. E. Riveroll. No. 1,370,915; Mar. 8; v. 284; p. 265.
- Iron and steel, Production of. E. Riveroll. No. 1,391,507; Sept. 20; v. 290; p. 547.
- Iron and steel, Treating. F. Visintainer. No. 1,381,771; June 14; v. 287; p. 327.
- Iron compounds and products, Manufacturing. R. S. Penniman, Jr., and N. M. Zoph. No. 1,368,748; Feb. 15; v. 283; p. 470.
- Iron compounds, Manufacturing. F. Ball. No. 1,385,769; July 26; v. 288; p. 725.
- Iron-leather, Manufacture of. O. Röhm. No. 1,397,387; Nov. 15.
- Iron or steel bearing element and making same. R. J. Shoemaker. No. 1,399,810; Dec. 13.
- Iron or steel for the prevention of oxidation or rusting, Treatment of. L. S. Chadwick and M. Resek. No. 1,388,325; Aug. 23; v. 289; p. 650.
- Iron or steel plates, having hardened surfaces, Securing attachments to. W. L. Cole. No. 1,392,300; Oct. 4.
- Iron, Rolling. C. Rötzel. No. 1,380,254; May 31; v. 286; p. 993.
- Iron seats, Angle-. R. M. Trexler. No. 1,364,821; Jan. 4; v. 282; p. 149.
- Iron, steel, and the like, Protective composition for heat treatment of articles of. S. Whyte. No. 1,366,305; Jan. 18; v. 282; p. 521.
- Irons, Attachment for electric. A. Hausam. No. 1,382,781; June 28; v. 287; p. 632.
- Ironing-board. J. D. Eichelberger. No. 1,381,068; June 7; v. 287; p. 143.
- Ironing-board. A. Mintz. No. 1,380,234; May 31; v. 286; p. 989.
- Ironing-board. R. B. Palmer. No. 1,381,076; June 7; v. 287; p. 145.
- Ironing-board. W. G. Semple. No. 1,374,398; Apr. 12; v. 285; p. 238.
- Ironing-board. A. R. Simpson. No. 1,368,660; Feb. 15; v. 283; p. 453.
- Ironing-board. A. M. Springer. No. 1,369,942; Mar. 1; v. 284; p. 36.
- Ironing-board. E. M. Trammell and W. C. Carothers. No. 1,384,361; July 12; v. 288; p. 278.
- Ironing-board. H. R. Weaver. No. 1,369,861; Mar. 1; v. 284; p. 20.
- Ironing board and table, Knock-down convertible. W. W. Anderson. No. 1,369,372; Feb. 22; v. 283; p. 629.
- Ironing-board connection. C. E. Wintemute. No. 1,384,371; July 12; v. 288; p. 280.
- Ironing-board stand, Collapsible. F. Philipps. No. 1,399,574; Dec. 6.
- Ironing-boards, Cloth clamping and stretching means for. C. S. Hickey. No. 1,368,724; Feb. 15; v. 283; p. 465.
- Ironing device. A. W. Hutchins. No. 1,382,360; June 21; v. 287; p. 497.
- Ironing implement. H. A. Rapelye. No. 1,379,721; May 31; v. 286; p. 893.
- Ironing-machine. A. J. Fisher. No. 1,400,808; Dec. 20.
- Ironing-machine. W. S. Grey. No. 1,382,724; June 28; v. 287; p. 621.
- Ironing-machine. A. R. Gustafson. No. 1,389,753; Sept. 6; v. 290; p. 39.
- Ironing-machine. H. W. Hahn. No. 1,372,349; Mar. 22; v. 284; p. 662.
- Ironing-machine. E. J. Malone. No. 1,383,738; July 5; v. 288; p. 100.
- Ironing-machine. W. E. C. Powell. No. 1,372,452; Mar. 22; v. 284; p. 681.
- Ironing-machine. C. E. Waream and D. H. Benjamin. No. 1,388,984; Aug. 30; v. 289; p. 834.
- Ironing-machine. C. E. Waream and D. H. Benjamin. No. 1,398,248; Nov. 29.
- Ironing-machine. I. F. Willey. No. 1,391,521; Sept. 20; v. 290; p. 550.
- Ironing machine, Collar. R. P. Wright. No. 1,373,580; Apr. 5; v. 285; p. 39.
- Ironing machine, Collar-. D. Kishima. No. 1,395,501; Nov. 1.
- Ironing-presses, Tandem attachment for. C. L. Braley. No. 1,398,834; Nov. 29.
- Ironing-roll. E. L. York. No. 1,397,348; Nov. 15.
- Ironing-table. A. J. Crandall. No. 1,368,488; Feb. 15; v. 283; p. 419.
- Irrigating apparatus. J. A. Norton. No. 1,387,165; Aug. 9; v. 289; p. 310.
- Irrigating-channels, Implement for making. E. F. Chewing. No. 1,397,772; Nov. 22.
- Irrigating device. C. A. Morris. No. 1,381,731; June 14; v. 287; p. 320.
- Irrigating device. G. E. Quigley. No. 1,389,319; Aug. 30; v. 289; p. 901.
- Irrigating device. E. Robbins. No. 1,394,041; Oct. 18.
- Irrigating device, Overhead. W. H. Coles. No. 1,383,449; July 5; v. 288; p. 40.
- Irrigating-ditches, Gate for. W. Freudenberg. No. 1,378,342; May 17; v. 286; p. 483.
- Irrigating or sprinkling system. G. E. March. No. 1,397,769; Nov. 22.
- Irrigating system and applying same. G. B. Woodberry. No. 1,401,386; Dec. 27.
- Irrigating systems, Measuring turn-out for. F. N. Cronholm. No. 1,366,062; Jan. 18; v. 282; p. 474.
- Irrigation apparatus, Portable. W. F. Griffin. No. 1,387,256; Aug. 9; v. 289; p. 327.
- Irrigation gate-post. A. Kempkey. No. 1,394,023; Oct. 18.
- Irrigation-regulator. F. Sullivan. No. 1,375,240; Apr. 19; v. 285; p. 463.
- Irrigation system. A. E. Iverson. No. 1,373,660; Apr. 5; v. 285; p. 54.
- Irrigator. E. R. Phillips. No. 1,365,948; Jan. 18; v. 282; p. 452.



- Isobornyl ester and camphene mixture, Conversion of pinene compounds into. L. G. Wesson. No. 1,372,382; Mar. 22; v. 284; p. 668.
- Isoecyanin type, Photosensitizing dye of the. E. Q. Adams and H. L. Haller. No. 1,374,871; Apr. 12; v. 285; p. 330.
- Isolating listening apparatus. A. Block. No. 1,364,691; Jan. 4; v. 282; p. 124.
- Jack: See—
- Auto-jack.
  - Automatically - controlled self-lowering jack.
  - Automobile-jack.
  - Auxiliary jack.
  - Bed-jack.
  - Car-jack.
  - Dental-chair jack.
  - Drop-pit jack.
  - Electric-driving pump-jack.
  - High-speed lifting-jack.
  - Hydraulic jack.
  - Journal-box jack.
  - Lasting-jack.
  - Lifting-jack.
  - Log-jack.
  - Lowering jack.
  - Multiple-screw jack.
  - Pneumatic jack.
  - Pump-jack.
  - Pumping-jack.
  - Railway-joint expansion-jack.
  - Railway-journal-box jack.
  - Ratchet-jack.
  - Repair-jack.
  - Roller-base lifting-jack.
  - Scaffold-jack.
  - Screw-jack.
  - Self-lowering jack.
  - Shoemaker's jack.
  - Sifting-jack.
  - Vehicle-jack.
  - Wood-heel-attaching jack.
- Jack. L. A. Anderson. No. 1,386,220; Aug. 2; v. 289; p. 52.
- Jack. J. H. Burkholder. No. 1,394,141; Oct. 18.
- Jack. H. H. Burns. No. 1,365,656; Jan. 18; v. 282; p. 393.
- Jack. G. F. Dillon. No. 1,377,147; May 3; v. 286; p. 146.
- Jack. J. P. Dorau. No. 1,388,103; Aug. 16; v. 289; p. 548.
- Jack. E. A. Dorman. No. 1,367,307; Feb. 1; v. 283; p. 84.
- Jack. H. T. Gibbard. No. 1,379,011; May 42; v. 286; p. 885.
- Jack. H. T. Gibbard. No. 1,379,012; May 24; v. 286; p. 685.
- Jack. F. C. Healy. No. 1,398,132; Nov. 22.
- Jack. D. E. Hennessy. No. 1,381,992; June 21; v. 287; p. 428.
- Jack. A. C. Hopkins. No. 1,389,358; Aug. 30; v. 289; p. 909.
- Jack. C. H. Howland-Shearman. No. 1,400,605; Dec. 20.
- Jack. J. C. Kopf. No. 1,373,894; Apr. 5; v. 285; p. 100.
- Jack. J. C. Kopf. No. 1,397,871; Nov. 22.
- Jack. T. A. Lake. No. 1,387,992; Aug. 16; v. 289; p. 526.
- Jack. A. F. Lanier. No. 1,382,733; June 28; v. 287; p. 623.
- Jack. S. H. Lanyon. No. 1,397,894; Nov. 22.
- Jack. G. W. Paey. No. 1,372,826; Mar. 29; v. 284; p. 795.
- Jack. J. C. Seymour and A. McKellar. No. 1,382,682; June 28; v. 287; p. 613.
- Jack. J. Tatton. No. 1,391,594; Sept. 20; v. 290; p. 565.
- Jack. H. A. Thorndike. No. 1,393,851; Oct. 18.
- Jack. T. Torkildson. No. 1,394,375; Oct. 18.
- Jack and clamp, Combined. J. Johnsen. No. 1,376,017; Apr. 26; v. 285; p. 644.
- Jack and puller, Combined. A. E. Clements. No. 1,395,945; Nov. 1.
- Jack and pump, Pneumatic. C. Stephens. No. 1,375,332; Apr. 19; v. 285; p. 481.
- Jack and rim-contractor, Combined. F. C. Rhode. No. 1,392,355; Oct. 4.
- Jack and safety device, Combined auto-. W. Scott. No. 1,397,185; Nov. 15.
- Jack, Automobile-. G. L. Bonham. No. 1,396,619; Nov. 8.
- Jack-block and car-wheel clamp. C. E. Rodgers. No. 1,391,979; Sept. 27; v. 290; p. 716.
- Jack device, Automatic motor-vehicle. G. H. Willems. No. 1,395,543; Nov. 1.
- Jack for motor and other vehicles, Lifting-. F. L. Rapson. No. 1,398,279; Nov. 29.
- Jack, Friction-driven automobile power-. C. E. Curtiss. No. 1,383,450; July 5; v. 288; p. 40.
- Jack-gear. P. L. Billingsley. No. 1,376,507; May 3; v. 286; p. 24.
- Jack-lever connection. E. J. Van Fleet. No. 1,396,901; Nov. 15.
- Jack, Lifting-. J. Berg. No. 1,396,314; Nov. 8.
- Jacks, Antifriction mechanism for lifting. F. L. Gormley. No. 1,381,988; June 21; v. 287; p. 428.
- Jacks, Brake mechanism for lifting-. M. J. Harkless. No. 1,396,955; Nov. 15.
- Jacks, Safety limit-stop for vertical screw-. A. H. McDougall. No. 1,366,402; Jan. 25; v. 282; p. 583.
- Jacks, Safety-lock for lifting-. F. L. Gormley. No. 1,368,793; Feb. 15; v. 283; p. 478.
- Jacquard devices, Strap connection for. H. Slesholtz. No. 1,378,567; May 17; v. 286; p. 527.
- Jacquard mechanism. A. F. Schuler. No. 1,382,558; June 21; v. 287; p. 535.
- Jacquard mechanism. G. C. L. Tisch. No. 1,381,034; June 7; v. 287; p. 137.
- Jam-nut. W. O. Hayter and G. A. Frisk. No. 1,394,730; Oct. 25.
- Jams, jellies, and marmalades of fruits, Making. E. Monti. No. 1,398,339; Nov. 29.
- Jamb or latch, Spring slide-door. F. Clark. No. 1,383,983; July 5; v. 288; p. 150.
- Jammer-hook. D. McGinnis. No. 1,383,649; July 5; v. 288; p. 81.
- Jar: See—
- Battery-jar.
- Jar. J. S. Rinschler, Jr. No. 1,366,542; Jan. 25; v. 282; p. 612.
- Jar and closure therefor. Q. A. Gates. No. 1,365,167; Jan. 11; v. 282; p. 260.
- Jar and other receptacle. A. and H. Ingram. No. 1,375,004; Apr. 19; v. 285; p. 417.
- Jar-closure. W. W. Dodge. No. 1,401,467; Dec. 27.
- Jar-closure. W. F. Kipp. No. 1,382,985; June 28; v. 287; p. 670.
- Jar-closure. J. L. Kivlan. No. 1,383,215; June 28; v. 287; p. 714.
- Jar-closure. A. C. Knapp. No. 1,381,473; June 14; v. 287; p. 270.
- Jar-closure. T. L. Taliaferro. No. 1,378,295; May 17; v. 286; p. 475.
- Jar-closure. T. L. Taliaferro. No. 1,381,364; June 14; v. 287; p. 250.
- Jar-closure, Band. C. Hammer. No. 1,376,760; May 3; v. 286; p. 72.
- Jar-closure, Milk-sterilizing. H. J. Wintherlich. No. 1,383,894; July 5; v. 288; p. 132.
- Jar-cover opener, Adjustable. J. A. McLeod and E. A. Dauter. No. 1,394,033; Oct. 18.
- Jar-cover remover. V. A. Boker. No. 1,376,395; May 3; v. 286; p. 4.
- Jar-cover remover, Fruit-. A. B. Miller. No. 1,396,867; Nov. 15.
- Jar-holder. C. A. Bartlett and L. H. Eastman. No. 1,384,176; July 12; v. 288; p. 239.
- Jar-holder. T. S. Catlin. No. 1,393,010; Oct. 11.
- Jar-holder. M. N. Hanson. No. 1,383,112; June 28; v. 287; p. 691.
- Jar-holder. N. T. Metcalf. No. 1,394,105; Oct. 18.
- Jar-holder. H. P. Rykken. No. 1,397,457; Nov. 15.
- Jar holder, Fruit-. P. Peterson. No. 1,370,555; Mar. 8; v. 284; p. 197.
- Jar-opener. R. H. Calkins. No. 1,366,871; Jan. 25; v. 282; p. 677.
- Jar-opener. R. A. Kiefer. No. 1,399,349; Dec. 6.
- Jar-opener. C. Quinn. No. 1,389,011; Aug. 30; v. 289; p. 840.
- Jar-opener. D. Tower. No. 1,364,221; Jan. 4; v. 282; p. 34.
- Jar opener, Fruit-. C. F. Standish. No. 1,374,612; Apr. 12; v. 285; p. 280.
- Jar opener, Preserve-. H. W. Dearing. No. 1,389,818; Sept. 6; v. 290; p. 52.
- Jar or can opener, Adjustable. D. L. Murphy. No. 1,380,236; May 31; v. 286; p. 989.
- Jar or container, Non-spillable battery. H. Dean. No. 1,376,923; May 3; v. 286; p. 104.
- Jar-wrench. D. C. and W. Wisenberg. No. 1,394,388; Oct. 18.
- Jars, bottles, and other receptacles, Closure for. A. and H. Ingram. No. 1,365,832; Jan. 18; v. 282; p. 429.
- Jars, bottles, and other receptacles, Closure for. A. and H. Ingram. No. 1,386,624; Aug. 9; v. 289; p. 201.
- Jars, Closure for glass. J. Judkins. No. 1,366,664; Jan. 25; v. 282; p. 636.
- Jars, Cover for. T. L. Taliaferro. No. 1,381,363; June 14; v. 287; p. 250.
- Jars, Dispenser for fruit-. J. E. Wright. No. 1,373,695; Apr. 5; v. 285; p. 61.
- Jars, Hermetic friction-closure for. T. L. Taliaferro. No. 1,386,742; Aug. 9; v. 289; p. 226.
- Jars, Lining for jar-caps and sealing. E. Beavers and W. A. Webber. No. 1,382,051; June 21; v. 287; p. 439.
- Jars, Sealing preserving-. A. C. Crofford. No. 1,372,672; Mar. 29; v. 284; p. 764.
- Jarring-machine. C. F. Buente. No. 1,373,948; Apr. 5; v. 285; p. 111.
- Jaw-trap. J. Brown. No. 1,366,355; Jan. 25; v. 282; p. 574.
- Jaw-trap. A. McMullen. No. 1,390,210; Sept. 6; v. 290; p. 130.
- Jetty. C. Nohlen. No. 1,373,629; Apr. 5; v. 285; p. 48.
- Jewel-bearing, Floating. K. B. Glenn. No. 1,396,570; Nov. 8.
- Jewel-mount. H. Silverman. No. 1,376,974; May 3; v. 286; p. 113.
- Jeweler's exhibition-tweezer. R. A. Stone. No. 1,382,867; June 28; v. 287; p. 648.
- Jeweler's torch. S. W. Hoke. No. 1,384,954; July 19; v. 288; p. 482.
- Jeweler's tray. A. Y. S. Album. No. 1,390,855; Sept. 13; v. 290; p. 352.
- Jewelry. J. P. Rowley and J. W. Schoellner. No. 1,386,133; Aug. 2; v. 289; p. 34.
- Jewelry. C. G. Smith. No. 1,392,604; Oct. 4.
- Jewelry, Article of. A. Knaus. No. 1,385,691; July 26; v. 288; p. 709.
- Jewelry-box. L. A. Negraval. No. 1,367,322; Feb. 1; v. 283; p. 87.
- Jewelry-case. J. Buttigieg. No. 1,388,094; Aug. 16; v. 289; p. 546.
- Jewelry, Catch for. J. C. Lapp and J. A. Haley. No. 1,382,839; June 28; v. 287; p. 642.



## Alphabetical list of inventions—Continued.

- Jewelry catch or clasp. F. W. Nittel. No. 1,396,588; Nov. 8.
- Jewelry-clasp. B. Bloom. No. 1,377,552; May 10; v. 286; p. 280.
- Jewelry, Fastening-clasp for. E. W. Peterson. No. 1,383,848; July 5; v. 288; p. 122.
- Jewelry-holder. R. H. Roda. No. 1,373,097; Mar. 29; v. 284; p. 848.
- Jewelry, Link. R. Anderson. No. 1,386,591; Aug. 9; v. 289; p. 195.
- Jewelry-setting. T. Cumming. No. 1,389,031; Aug. 30; v. 289; p. 844.
- Jig. W. Dorton. No. 1,391,531; Sept. 20; v. 290; p. 552.
- Jig. G. H. Elmore. No. 1,387,370; Aug. 9; v. 289; p. 352.
- Jig, Saw-grinding. H. A. Jones and E. W. Struve. No. 1,385,175; July 19; v. 288; p. 628.
- Jogging-machine. S. E. Kately and H. C. Alger. No. 1,396,436; Nov. 8.
- Joint: See—
- |                           |                                 |
|---------------------------|---------------------------------|
| Adjustable-framing joint. | Power-transmitting joint.       |
| Angle-joint.              | Rail-joint.                     |
| Ankle-joint.              | Railway-rail joint.             |
| Artificial-limb joint.    | Railway rail and gage joint.    |
| Corner-joint.             | Slip-joint.                     |
| Expansion-joint.          | Stovepipe-joint.                |
| Flexible joint.           | Tool-joint.                     |
| Flexible metal joint.     | Track-joint.                    |
| Hydraulic pipe-joint.     | Tubular joint.                  |
| Insulated rail-joint.     | Uniform-motion universal joint. |
| Leak-proof joint.         | Universal joint.                |
| Lock-joint.               | Universal pipe-joint.           |
| Packing-joint.            | Yieldable joint.                |
| Pipe-joint.               | Yielding universal joint.       |
| Pivot-joint.              |                                 |
- Joint. F. H. Bancroft. No. 1,391,163; Sept. 20; v. 290; p. 477.
- Joint. C. V. Bulow. No. 1,391,364; Sept. 20; v. 290; p. 518.
- Joint. F. Hachmann. No. 1,367,134; Feb. 1; v. 283; p. 50.
- Joint, Adjustable framing-. C. Bergstrom. No. 1,364,173; Jan. 4; v. 282; p. 25.
- Joint-closure. J. B. Een. No. 1,389,557; Aug. 30; v. 289; p. 948.
- Joint construction, Expandable-. C. Gilman and W. C. Parley. No. 1,388,558; Aug. 23; v. 289; p. 695.
- Joint cover or protector. C. L. Sheppy. No. 1,389,224; Aug. 30; v. 289; p. 881.
- Joint for structural elements, Self-closing and locking. C. L. Van Nostrand. No. 1,367,643; Feb. 8; v. 283; p. 208.
- Joint for structures. A. Dudynsky. No. 1,395,402; Nov. 1.
- Joint-lock. A. F. Miller. No. 1,376,150; Apr. 26; v. 285; p. 669.
- Joint or coupling, Expansion. J. Slomer. No. 1,369,198; Feb. 22; v. 283; p. 596.
- Joint or splice connection. H. C. Hansen. No. 1,365,685; Jan. 18; v. 282; p. 399.
- Joint-pins, hinge-pins, coupling-pins, Locking of removable. E. Mepsted. No. 1,372,242; Mar. 22; v. 284; p. 641.
- Jointer-guard. P. C. Instrum. No. 1,394,499; Oct. 18.
- Joist-bar spacer. W. E. White. No. 1,366,230; Jan. 18; v. 282; p. 506.
- Joist-bracket. W. S. Tait. No. 1,398,579; Nov. 29.
- Jolt ramming and squeezing machine, Combination. P. W. Gates. No. 1,381,912; June 21; v. 287; p. 414.
- Journal-bearing. L. D. Gregg. No. 1,392,636; Oct. 4.
- Journal-bearing. J. M. Pitkin. No. 1,366,132; Jan. 18; v. 282; p. 487.
- Journal-bearing. A. B. Wray. No. 1,366,856; Jan. 25; v. 282; p. 674.
- Journal-bearing. J. T. Young. No. 1,384,502; July 12; v. 288; p. 307.
- Journal-bearing support. F. S. Barks. No. 1,377,545; May 10; v. 286; p. 279.
- Journal-bearing support. H. M. Plaisted. No. 1,368,050; Feb. 8; v. 283; p. 285.
- Journal-box. J. P. Kelly. No. 1,380,214; May 31; v. 286; p. 985.
- Journal-box. H. C. Sattiel. No. 1,380,256; May 31; v. 286; p. 993.
- Journal-box. L. K. Stafford. No. 1,370,377; Mar. 1; v. 284; p. 118.
- Journal-box. J. J. Zell and A. S. Vogt. No. 1,380,697; June 7; v. 287; p. 71.
- Journal-box and mounting. J. R. Fleming. No. 1,395,487; Nov. 1.
- Journal-box and pulley bearing, Lubricated. J. C. Sharp. No. 1,386,961; Aug. 9; v. 289; p. 270.
- Journal-box hinge-pin. W. F. Kiesel, Jr. No. 1,393,139; Oct. 11.
- Journal-box jack. J. A. Hope. No. 1,369,432; Feb. 22; v. 283; p. 641.
- Journal-box jack. G. W. Rutledge. No. 1,385,892; July 26; v. 288; p. 749.
- Journal-box lubricator. T. W. Demarest. No. 1,396,734; Nov. 15.
- Journal-boxes, Roller-bearing cage for railway. G. W. Dallimore. No. 1,377,670; May 10; v. 286; p. 303.
- Journal-boxes, Sheet-metal cap for. A. J. Pierce. No. 1,367,427; Feb. 1; v. 283; p. 109.
- Journal-feeler. P. M. Kellogg. No. 1,369,032; Feb. 22; v. 283; p. 564.
- Journal jack-block and wheel-clamp. C. O. Vest. No. 1,382,332; June 21; v. 287; p. 491.
- Journal-lubricating device. I. S. Downing and E. S. Pearce. No. 1,398,502; Nov. 29.
- Journal-lubricator. L. W. S. Graham and F. S. Lindo. No. 1,371,161; Mar. 8; v. 284; p. 312.
- Journal-lubricator. J. J. Hennessy. No. 1,366,730; Jan. 25; v. 282; p. 649.
- Journal-lubricator, Automatic. J. J. Hennessy. No. 1,378,452; May 17; v. 286; p. 504.
- Journal or axle bearing. W. M. Heina. (Reissue.) No. 15,058; Mar. 8; v. 284; p. 322.
- Journal turning and burnishing, quartering, and crank-pin-turning machine. D. H. Teas and A. Wood. No. 1,370,715; Mar. 8; v. 284; p. 228.
- Juice and product, Treating. I. S. Merrell; Nos. 1,398,080-1; Nov. 22.
- Juice, Concentrating grape. E. Montl. No. 1,379,470; May 24; v. 286; p. 771.
- Juices, containing inuline and laevulose, Purifying. A. Daniel. No. 1,399,544; Dec. 6.
- Jumper-seat. F. H. Buske. No. 1,397,675; Nov. 22.
- Kaleidoscope. W. R. Fearn. No. 1,394,480; Oct. 18.
- Kaleidoscope. H. E. House. No. 1,398,858; Nov. 29.
- Kaleidoscope. J. W. Petrie. No. 1,383,019; June 28; v. 287; p. 677.
- Keeper. A. Block. No. 1,377,458; May 10; v. 286; p. 263.
- Keg-making machine. F. S. Youtsey, E. C. Walker, and A. S. Moses. No. 1,371,833; Mar. 15; v. 284; p. 506.
- Kerosene-burner. F. W. Evans and A. H. Miller. No. 1,394,073; Oct. 18.
- Kerosene-burner. A. E. Hauck. No. 1,381,707; June 14; v. 287; p. 315.
- Kerosene-burner. C. A. Hill. No. 1,377,072; May 3; v. 286; p. 132.
- Kerosene-emulsion composition. D. J. Murphy. No. 1,374,755; Apr. 12; v. 285; p. 307.
- Kerosene-gas-generating apparatus, Non-flooding attachment for. C. A. Hill. No. 1,397,049; Nov. 15.
- Ketone bodies, Making. C. Ellis and A. Wells. No. 1,365,053; Jan. 11; v. 282; p. 238.
- Kettle. J. C. Hollands. No. 1,377,684; May 10; v. 286; p. 305.
- Kettle. H. M. Hull. No. 1,389,305; Aug. 30; v. 289; p. 898.
- Kettle. L. L. Knox. No. 1,370,123; Mar. 1; v. 284; p. 69.
- Kettle. H. A. Moork. No. 1,397,536; Nov. 22.
- Kettle. D. C. Wilson. No. 1,391,231; Sept. 20; v. 290; p. 491.
- Kettle and the like, Electric. A. S. Ford. No. 1,390,028; Sept. 6; v. 290; p. 95.
- Kettle-furnace. O. P. Sanders. No. 1,387,807; Aug. 16; v. 289; p. 493.
- Key: See—
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| Brake-beam-hanger-locking key. | Recording-key.                         |
| Coupling-key.                  | Students' non-electric tele-graph-key. |
| Deck-plate key.                |  |
- Key. W. A. Lotz. No. 1,373,897; Apr. 5; v. 285; p. 101.
- Key. J. E. Pankratz. No. 1,370,552; Mar. 8; v. 284; p. 197.
- Key and bolt lock, Combined. G. C. Ensinger. No. 1,381,547; June 14; v. 287; p. 284.
- Key and permutation padlock, Combined. C. Judyckl. No. 1,384,390; July 12; v. 288; p. 284.
- Key attachment. E. Tillert. No. 1,391,921; Sept. 27; v. 290; p. 704.
- Key-barrel construction, Combination-. F. Clark. No. 1,369,727; Feb. 22; v. 283; p. 699.
- Key coupling, Rotary. F. John. No. 1,371,787; Mar. 15; v. 284; p. 497.
- Key-cutting machine. R. R. Holbrook. No. 1,400,678; Dec. 20.
- Key device. R. M. Hopkins. No. 1,394,833; Oct. 25.
- Key-duplicating machine. S. O. Rorem. No. 1,381,747; June 14; v. 287; p. 322.
- Key-fastener. A. F. Lonk. No. 1,380,990; June 7; v. 287; p. 128.
- Key for fastening gear-wheels, raceways for ball-bearings, &c., to rotatable shafts. C. C. Barber. No. 1,400,014; Dec. 13.
- Key-guard. H. J. Nielsen. No. 1,368,743; Feb. 15; v. 283; p. 469.
- Key-guard. H. J. Nielsen. No. 1,381,424; June 14; v. 287; p. 261.
- Key-holder. J. H. Boye. No. 1,364,240; Jan. 4; v. 282; p. 37.
- Key-holder. R. J. Eckstein. No. 1,391,533; Sept. 20; v. 290; p. 553.
- Key-holder. C. L. Peirce, Jr. (Reissue.) No. 15,200; Sept. 20; v. 290; p. 577.
- Key-holder. E. F. Symons. No. 1,384,497; July 12; v. 288; p. 306.
- Key-indicator. H. W. Falconer. No. 1,369,017; Feb. 22; v. 283; p. 561.
- Key-lever spring-lock. A. J. Pruszyński and A. O. H. Ebert. No. 1,384,088; July 12; v. 288; p. 221.
- Key-lever tension device. O. A. Hokanson. No. 1,375,789; Apr. 26; v. 285; p. 599.



- Key-lock. E. O. Bennett. No. 1,382,164; June 21; v. 287; p. 459.
- Key-lock, Changeable-combination. E. W. Marvel. No. 1,374,310; Apr. 12; v. 285; p. 221.
- Key-reminder. M. Bayerdorffer. No. 1,395,332; Nov. 1.
- Key-ring. A. W. Conner. No. 1,373,867; Apr. 5; v. 285; p. 95.
- Key-ring. V. Davis. No. 1,388,100; Aug. 16; v. 289; p. 547.
- Key ring and holder, Combined. S. Peter. No. 1,401,184; Dec. 27.
- Key-ring clip. J. L. Sommer. No. 1,392,715; Oct. 4.
- Key-ring holder. J. Jackson. No. 1,368,156; Feb. 8; v. 283; p. 306.
- Key-seating machine. J. P. Lannen. No. 1,372,886; Mar. 29; v. 284; p. 807.
- Keys. Pneumatic cushion for. J. J. Coomber. No. 1,397,574; Nov. 22.
- Keyboard finger-guide. I. Helguera. No. 1,377,070; May 3; v. 286; p. 132.
- Keyboard, Master-. W. P. Zent. No. 1,394,602; Oct. 25.
- Keyhole-finder. C. H. May. No. 1,384,622; July 12; v. 288; p. 333.
- Keyhole-guard. L. R. Culver. No. 1,392,404; Oct. 4.
- Keyhole-guard. J. Tomaszewski. No. 1,378,918; May 24; v. 286; p. 667.
- Keyhole-guard, Combination. J. Somora. No. 1,380,260; May 31; v. 286; p. 994.
- Keyless lock. M. Wildrick. No. 1,373,283; Mar. 29; v. 284; p. 886.
- Keyway-cutter. V. E. La Pointe. No. 1,364,561; Jan. 4; v. 282; p. 99.
- Keyway-forming in wheels or the like and product thereof. W. W. Annable. No. 1,376,664; May 3; v. 286; p. 53.
- Kiln: See—
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| Brick-kiln.     | Drying-kiln.   |
| Calcining-kiln. | Rotary kiln.   |
| Cement-kiln.    | Tunnel-kiln.   |
| Dry-kiln.       | Vertical kiln. |
- Kiln. F. Fidler and J. G. Maxwell. No. 1,364,090; Jan. 4; v. 282; p. 8.
- Kiln. H. P. Jenks. No. 1,386,116; Aug. 2; v. 289; p. 31.
- Kiln. J. H. Lemmon. No. 1,401,481; Dec. 27.
- Kiln and drier, Cylindrical. G. McCrae. No. 1,399,503; Dec. 6.
- Kiln and firebrick therefor. S. H. Harrison. No. 1,374,203; Apr. 12; v. 285; p. 200.
- Kiln and operating same, Tunnel-. P. d'H. Dressler. No. 1,369,330; Feb. 22; v. 283; p. 621.
- Kiln and operating the same. L. M. Underwood. (Re-issue.) No. 15,186; Aug. 30; v. 289; p. 951.
- Kiln, Cement-. J. Nelson. No. 1,366,586; Jan. 25; v. 282; p. 621.
- Kiln, Downdraft. A. W. F. Weyers. No. 1,379,324; May 24; v. 286; p. 744.
- Kiln for burning any and all sorts of clay products, glazed ware, and pottery. H. Webster. No. 1,395,462; Nov. 1.
- Kiln, Parallel-current calcining. H. E. Brookby. No. 1,390,335; Sept. 13; v. 290; p. 247.
- Kiln plant and operating the same, Cement-. J. E. Bell. No. 1,393,738; Oct. 18.
- Kiln, Portland-cement and calcining. J. Nelson. No. 1,366,585; Jan. 25; v. 282; p. 620.
- Kiln, Rotary. S. J. Vermaes. No. 1,401,212; Dec. 27.
- Kiln setting and burning. G. E. Luce. No. 1,369,752; Feb. 22; v. 283; p. 705.
- Kiln, Tunnel-. G. E. Norman. No. 1,372,773; Mar. 29; v. 284; p. 784.
- Kiln with sectional combustion chambers, Tunnel-. P. d'H. Dressler. No. 1,384,435; July 12; v. 288; p. 294.
- Kilns, Arch-protector for clamp-. F. Leckner. No. 1,396,189; Nov. 8.
- Kilns, Baffle for combustion-chambers of tunnel-. J. B. Owens. No. 1,379,123; May 24; v. 286; p. 706.
- Kilns, Burner for tunnel-. P. d'H. Dressler. No. 1,386,986; Aug. 2; v. 289; p. 4.
- Kilns, Combustion-chamber for tunnel-. J. B. Owens and E. P. Ogden. No. 1,378,190; May 17; v. 286; p. 455.
- Kilns, Cooling means for tunnel-. J. B. Owens. No. 1,379,714; May 31; v. 286; p. 891.
- Kilns, Firing. F. Munhollon. No. 1,399,070; Dec. 6.
- Kilns, Lining for. A. F. Meyerhofer. No. 1,378,710; May 17; v. 286; p. 555.
- Kilns, Means for cooling tunnel-. J. B. Owens. No. 1,377,522; May 10; v. 286; p. 274.
- Kilns, Twyer-grate for individual-gas-producer. J. T. and L. M. Underwood. No. 1,376,843; May 3; v. 286; p. 88.
- Kilns, Ware-support for. P. A. Mehan. No. 1,386,012; Aug. 2; v. 289; p. 10.
- Kindergarten apparatus. J. L. Kellogg. No. 1,385,623; July 26; v. 288; p. 695.
- Kindler-holder. F. E. White. No. 1,374,619; Apr. 12; v. 285; p. 281.
- Kindling-burner. C. Flint. No. 1,389,427; Aug. 30; v. 289; p. 922.
- Kindling-chopper. G. M. Dudley. No. 1,364,737; Jan. 4; v. 282; p. 133.
- Kinetoscopes, Take-up mechanism for. G. S. Boylan. No. 1,377,112; May 3; v. 286; p. 140.
- Kit for automobilists, campers, &c. Toilet. G. W. Robbins. No. 1,361,809; Jan. 4; v. 282; p. 147.
- Kit, Lunch. W. M. Potter. No. 1,380,019; May 31; v. 286; p. 949.
- Kit, Tailor's. L. Erickson. No. 1,387,970; Aug. 16; v. 289; p. 522.
- Kit, Traveler's. A. Lang. No. 1,368,735; Feb. 15; v. 283; p. 468.
- Kitchen utensil. E. F. Frautnick. No. 1,388,636; Aug. 23; v. 289; p. 710.
- Kitchen utensil. F. G. Graber. No. 1,392,491; Oct. 4.
- Kitchen utensil, Combination. J. H. Gagnon. No. 1,394,194; Oct. 18.
- Kitchen utensil, Combination. A. and E. Gluck. No. 1,371,758; Mar. 15; v. 284; p. 492.
- Kitchen utensils. H. Behr. No. 1,390,977; Sept. 20; v. 290; p. 439.
- Kitchen utensils. G. J. Long. No. 1,370,752; Mar. 8; v. 284; p. 235.
- Kitchenola. J. H. Peters. (Reissue.) No. 15,106; May 17; v. 286; p. 578.
- Kite. S. X. Pantcheff. No. 1,375,970; Apr. 26; v. 285; p. 634.
- Kite. U. Wilcox. No. 1,381,264; June 14; v. 287; p. 231.
- Kite, captive, or observation balloon. C. F. Smyth. No. 1,376,121; Apr. 26; v. 285; p. 664.
- Kite-flying device. D. W. Sargent. No. 1,372,909; Mar. 29; v. 284; p. 812.
- Knee amputations, Fiber knee-control stop for above-. C. E. Stinehart. No. 1,365,205; Jan. 11; v. 282; p. 267.
- Knee-pad. E. N. Kauffman. No. 1,378,870; May 24; v. 286; p. 658.
- Knee-pad, Pneumatic. J. T. Shelton. No. 1,399,584; Dec. 6.
- Knee-protector. P. Van Fleet. No. 1,372,790; Mar. 29; v. 284; p. 788.
- Knee-supporter. F. T. Sheehan. No. 1,388,172; Aug. 23; v. 289; p. 737.
- Knife: See—
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| Button-knife.                         | Paring-knife.             |
| Drawknife.                            | Paring and pitting knife. |
| Electrical uncapping-knife.           | Picking-knife.            |
| Embroidery-knife.                     | Pitter-knife.             |
| Folding drawing-knife.                | Pitting-knife.            |
| Gage-knife.                           | Ribbing-knife.            |
| Motor-driven animal-skin-nings knife. | Straight-line knife.      |
- Knife. A. R. Barnett. No. 1,380,629; June 7; v. 287; p. 57.
- Knife. E. Boe. No. 1,373,993; Apr. 5; v. 285; p. 120.
- Knife. L. Gallinek. No. 1,372,807; Mar. 29; v. 284; p. 791.
- Knife. P. Ganzhorn. No. 1,375,501; Apr. 19; v. 285; p. 513.
- Knife. G. A. Weishaupt. No. 1,372,579; Mar. 22; v. 284; p. 706.
- Knife and making, Kitchen-. R. K. Teller. No. 1,366,610; Jan. 25; v. 282; p. 626.
- Knife and saw, Combination. A. Hall. No. 1,399,476; Dec. 6.
- Knife and saw, Combined. H. Aiguier. No. 1,388,014; Aug. 16; v. 289; p. 531.
- Knife and tool-pad, Pocket. E. Priestman. No. 1,397,018; Nov. 15.
- Knife-bolster trimmer, Pocket. G. Schrade. No. 1,371,002; Mar. 8; v. 284; p. 282.
- Knife, Button-. J. M. McCray. No. 1,380,226; May 31; v. 286; p. 988.
- Knife-cleaner. P. Lamb. No. 1,393,449; Oct. 11.
- Knife director and guide-gage. E. J. Miller. No. 1,378,551; May 17; v. 286; p. 524.
- Knife, Floating. R. L. Sanders. No. 1,386,956; Aug. 9; v. 289; p. 270.
- Knife, fork, and spoon set, Folding. E. A. Willemin. No. 1,372,325; Mar. 22; v. 284; p. 657.
- Knife, Gage-. O. J. Paquette. No. 1,384,916; July 19; v. 288; p. 474.
- Knife-grinding machine. J. Dick. No. 1,390,098; Sept. 6; v. 290; p. 109.
- Knives, Grinding-machine for belt-. L. G. Knowles. No. 1,380,394; June 7; v. 287; p. 13.
- Knife, Jack-. B. A. Prince. No. 1,370,995; Mar. 8; v. 284; p. 281.
- Knife scales and linings, Drilling and pinning on machine for pocket-. W. E. Primrose. No. 1,367,831; Feb. 8; v. 283; p. 245.
- Knife-switch. W. M. Brillhart. No. 1,364,977; Jan. 11; v. 282; p. 224.
- Knives, &c., Grinder or sharpener for. J. M. Rose. No. 1,398,741; Nov. 29.
- Knit fabric and knitting the same, Seamless tubular. W. E. Smith. No. 1,390,827; Sept. 13; v. 290; p. 346.
- Knit tubular fabrics, Method and apparatus for stretching and pressing. T. Cunningham. No. 1,401,589; Dec. 27.
- Knitted cap. D. Karger. No. 1,395,230; Oct. 25.
- Knitted cap and making the same. E. N. Joha. No. 1,394,093; Oct. 18.
- Knitted fabric and producing the same. G. Stibbe. No. 1,386,444; Aug. 2; v. 289; p. 94.
- Knitted fabric, Framework. E. A. Drechsel. No. 1,375,575; Apr. 19; v. 285; p. 527.
- Knitted fabrics for use, Preparation of. C. E. Shaw. No. 1,401,501; Dec. 27.
- Knitted goods and winding the yarn, Machine for unraveling. M. F. Robischon. No. 1,399,657; Dec. 6.



*Alphabetical list of inventions—Continued.*

- Knitting instrument. J. F. Wilcomb. No. 1,398,821; Nov. 29.
- Knitting-machine. H. T. Ballard. No. 1,397,070; Nov. 15.
- Knitting-machine. F. D. Holmes and W. H. Trick. No. 1,388,341; Aug. 23; v. 289; p. 653.
- Knitting-machine. O. F. C. Kunau. No. 1,387,783; Aug. 16; v. 289; p. 486.
- Knitting-machine. R. W. Scott. No. 1,373,358; Mar. 29; v. 284; p. 901.
- Knitting-machine and fabric, (spot effect.) H. T. Ballard. No. 1,397,069; Nov. 15.
- Knitting-machine, Circular-. M. C. Miller. No. 1,374,163; Apr. 5; v. 285; p. 151.
- Knitting-machine, Circular-. W. E. Smith. No. 1,368,664; Feb. 15; v. 283; p. 454.
- Knitting-machine, Circular glove-. J. Lawson. No. 1,401,712; Dec. 27.
- Knitting-machine construction. W. Larkin. No. 1,398,865; Nov. 29.
- Knitting-machine, Dial and cylinder. G. Stibbe. No. 1,388,781; Aug. 23; v. 289; p. 739.
- Knitting machine for making antiraveling courses, Stocking-. G. P. Bosworth. No. 1,377,460; May 10; v. 286; p. 263.
- Knitting-machine, Multiple-feed circular spring-needle. A. A. Roy and P. J. Landry. No. 1,390,164; Sept. 6; v. 290; p. 122.
- Knitting-machine needle. W. W. Burson. No. 1,391,043; Sept. 20; v. 290; p. 453.
- Knitting-machine needle. R. W. Scott. No. 1,385,929; July 26; v. 288; p. 756.
- Knitting-machine, Spring-needle. W. Schwarze. No. 1,386,431; Aug. 2; v. 289; p. 92.
- Knitting-machine, Stocking-. G. P. Bosworth. No. 1,377,459; May 10; v. 286; p. 263.
- Knitting-machine web-turning device. L. N. D. Williams. No. 1,377,239; May 10; v. 286; p. 220.
- Knitting-machines and caps therefor, Winding and shipping cone for. H. L. Tiffany. No. 1,367,639; Feb. 8; v. 283; p. 207.
- Knitting-machines, Arm for. E. H. Stines and W. C. Potter. No. 1,399,278; Dec. 6.
- Knitting-machines, Attachment for. E. J. Franck. No. 1,372,345; Mar. 22; v. 284; p. 661.
- Knitting-machines, Attachment for. W. C. Potter and E. H. Stines. No. 1,398,570; Nov. 29.
- Knitting-machines, Circular-. J. L. Marshall and R. E. Davis. No. 1,386,580; Aug. 2; v. 289; p. 120.
- Knitting-machines, Cutter for. H. Paulman. No. 1,379,720; May 31; v. 286; p. 893.
- Knitting-machines, Dogless-dial attachment for. W. H. Swartz. No. 1,364,218; Jan. 4; v. 282; p. 33.
- Knitting-machines, Embroidering attachment for flat-. K. F. Nebel. No. 1,401,720; Dec. 27.
- Knitting-machines, Hole-detector for. J. A. Crumley. No. 1,368,489; Feb. 15; v. 283; p. 419.
- Knitting-machines, Jack mechanism for full-fashioned. M. Zwicky. No. 1,371,535; Mar. 15; v. 284; p. 450.
- Knitting-machines, Narrowing safety-stop for full-fashioned. M. Zwicky. No. 1,381,444; June 14; v. 287; p. 265.
- Knitting-machines, Printing attachment for. G. S. Weinerth. No. 1,390,660; Sept. 13; v. 290; p. 314.
- Knitting-machines, Safety device for circular-. H. E. Houseman. No. 1,364,112; Jan. 4; v. 282; p. 12.
- Knitting-machines, Stop-motion and alarm mechanism for. A. Gagné. No. 1,375,217; Apr. 19; v. 285; p. 459.
- Knitting-machines, Stop-motion for. E. S. Hinehine. No. 1,375,218; Apr. 19; v. 285; p. 459.
- Knitting-machines, Stop-motion for. E. S. Hinehine. No. 1,398,694; Nov. 29.
- Knitting-machines, Take-up mechanism for. K. Howie. No. 1,399,121; Dec. 6.
- Knitting-machines, Take-up mechanism for. F. P. Reynolds. No. 1,393,039; Oct. 11.
- Knitting-machines, Tucking apparatus for. A. E. Page. No. 1,367,425; Feb. 1; v. 283; p. 108.
- Knitting-machines, Welt attachment for. E. J. Franck. No. 1,374,496; Apr. 12; v. 285; p. 257.
- Knitting-machines, Yarn-feed for. A. E. Page. No. 1,388,749; Aug. 23; v. 289; p. 732.
- Knitting-machines, Yarn feeding and severing mechanism for. R. W. Scott. No. 1,373,676; Apr. 5; v. 285; p. 57.
- Knitting-machines, Yarn-guide mechanism for. E. Lip-pitt. No. 1,398,103; Nov. 22.
- Knitting-machines, Yarn severing and clamping device. A. M. Pigeon. No. 1,400,180; Dec. 13.
- Knitting mechanism, instrument therefor, and method of knitting. W. A. Houck. No. 1,400,163; Dec. 13.
- Knitting-mills, dye-houses, bleacheries, and laundries, Bleaching, dyeing, washing, and soaping cylinder for. D. B. Becker. No. 1,391,712; Sept. 27; v. 290; p. 662.
- Knitting-needle. M. E. Ross. No. 1,384,349; July 12; v. 288; p. 276.
- Knitting-needle. S. C. Taft. No. 1,398,813; Nov. 29.
- Knitting-needle unit. J. F. Wilcomb. No. 1,391,033; Sept. 20; v. 290; p. 451.
- Knitting-needles. R. Fenn. No. 1,364,088; Jan. 4; v. 282; p. 8.
- Knitting-needles and the like, Removable protecting-cap for. J. Mossman. No. 1,376,964; May 3; v. 286; p. 112.
- Knitting reinforced fabrics. R. W. Scott. No. 1,373,769; Apr. 5; v. 285; p. 75.
- Knitting reinforced fabrics, Mechanism for. R. W. Scott. No. 1,373,770; Apr. 5; v. 285; p. 75.
- Knitting with auxiliary yarns, Device for machine-. R. W. Scott. No. 1,370,490; Mar. 1; v. 284; p. 139.
- Knob-lock. L. Huffman. No. 1,393,021; Oct. 11.
- Knob-lock. L. Huffman. No. 1,395,414; Nov. 1.
- Knockdown box. J. C. Heim. No. 1,400,060; Dec. 13.
- Knockdown chair. E. Bickel. No. 1,391,362; Sept. 20; v. 290; p. 517.
- Knockdown packing-box. G. Nagai. No. 1,388,366; Aug. 23; v. 289; p. 658.
- Knockdown tank. P. C. Ickes. No. 1,381,877; June 14; v. 287; p. 347.
- Knot-tying implement. E. F. Hathaway. No. 1,387,051; Aug. 9; v. 289; p. 288.
- Knotter. A. E. Cranston. No. 1,374,283; Apr. 12; v. 285; p. 216.
- Knotter. A. E. Cranston. No. 1,388,553; Aug. 23; v. 289; p. 694.
- Knuckle for car-couplings, Emergency-. J. P. Carney. No. 1,379,960; May 31; v. 286; p. 938.
- Knuckle-pin, Inverted. J. W. Buchanan. No. 1,365,655; Jan. 18; v. 282; p. 393.
- Label, Adhesive. E. Gunnill. No. 1,370,962; Mar. 8; v. 284; p. 275.
- Label and patch stitching machines, Label-feeding means for automatic. M. G. Rosenthal. No. 1,389,598; Sept. 6; v. 290; p. 8.
- Label-feed device. J. Q. Leavitt. No. 1,394,432; Oct. 18.
- Label, envelop-shipping. A. D. Gasper. No. 1,401,399; Dec. 27.
- Label-holder. E. Ohnstrand. No. 1,376,725; May 3; v. 286; p. 65.
- Label-picking device. J. E. Johnson and C. H. Oslund. No. 1,376,097; Apr. 26; v. 285; p. 659.
- Label-printing machine. J. M. Reis and B. Friedman. No. 1,379,599; May 24; v. 286; p. 795.
- Label printing or stamping machine. H. F. Hurst. No. 1,374,374; Apr. 12; v. 285; p. 233.
- Labels, Device for applying paste to. A. F. Nelson. No. 1,395,056; Oct. 25.
- Labels, seals, &c., Machine for applying. F. M. Peters and W. H. Hungerford. No. 1,380,924; June 7; v. 287; p. 115.
- Labeling device. J. H. Rand. No. 1,401,280; Dec. 27.
- Labeling-machine. L. F. Burghardt. No. 1,385,303; July 19; v. 288; p. 553.
- Labeling-machine. H. G. Dewey and F. H. Knapp. No. 1,398,421; Nov. 29.
- Labeling-machine. J. Q. Leavitt. No. 1,388,728; Aug. 23; v. 289; p. 728.
- Labeling-machine. T. H. Lester. No. 1,364,942; Jan. 11; v. 282; p. 217.
- Labeling-machine. J. O'Connor. No. 1,394,339; Oct. 18.
- Labeling-machine. A. Pollatsek. No. 1,384,711; July 12; v. 288; p. 352.
- Labeling-machine. O. S. Sells. No. 1,393,581; Oct. 11.
- Labeling-machine. C. H. Wild. No. 1,379,376; May 24; v. 286; p. 754.
- Labeling-machine, Gravity. A. Lafata. No. 1,394,744; Oct. 25.
- Laboratory apparatus. J. J. Mojonner. No. 1,372,243; Mar. 22; v. 284; p. 641.
- Lace, L. Dinkelspiel. No. 1,391,943; Sept. 27; v. 290; p. 708.
- Lace, J. Steel. No. 1,368,853; Feb. 15; v. 283; p. 490.
- Lace-braiding machine. E. L. Smith. No. 1,397,299; Nov. 15.
- Lace-tipping machine. A. Schmalz. No. 1,371,265; Mar. 15; v. 284; p. 395.
- Laces, Implement for fixing tips to. A. L. Evenden, J. D. and J. A. Casey. No. 1,394,719; Oct. 25.
- Laces, Making. A. Petersen. No. 1,380,411; June 7; v. 287; p. 15.
- Laces, Tab-attaching device for. A. E. Anderson. No. 1,399,915; Dec. 13.
- Lacing. E. I. Coombs. No. 1,385,362; July 26; v. 288; p. 641.
- Lacing device. A. C. Whiteman. No. 1,393,188; Oct. 11.
- Lacing-fastening. M. H. Smith. No. 1,399,896; Dec. 13.
- Lacing-stud-setting machine with automatic stop. A. R. Haveren. No. 1,379,303; May 24; v. 286; p. 740.
- Lacings, Machine and method for rolling conical tips on. G. G. Perkins. No. 1,386,070; Aug. 2; v. 289; p. 22.
- Lacings, Tip for. E. F. King. No. 1,397,526; Nov. 22.
- Lacquer-machine. S. E. Walker. No. 1,382,149; June 21; v. 287; p. 456.
- Ladder. M. F. Enke. No. 1,385,319; July 19; v. 288; p. 556.
- Ladder. E. F. Evans. No. 1,400,481; Dec. 13.
- Ladder. G. A. Johnson. No. 1,397,216; Nov. 15.
- Ladder. E. Niccum. No. 1,401,354; Dec. 27.
- Ladder. F. M. de Saussure, Jr. No. 1,383,341; July 5; v. 288; p. 17.
- Ladder. F. M. de Saussure, Jr. No. 1,401,526; Dec. 27.
- Ladder. J. F. Solter and W. Gindler. No. 1,371,449; Mar. 15; v. 284; p. 432.
- Ladder. A. A. Sorg. No. 1,377,977; May 10; v. 286; p. 363.
- Ladder and stretcher structures, Pole for foldable. G. A. Faik. No. 1,374,995; Apr. 19; v. 285; p. 415.



- Ladder, Adjustable. G. J. Hebner. No. 1,392,642; Oct. 4.  
 Ladder attachment. H. Hunt. No. 1,393,536; Oct. 11.  
 Ladder attachment. E. C. Krah. No. 1,386,511; Aug. 2; v. 289; p. 107.  
 Ladder attachment. A. P. O'Connor. No. 1,376,777; May 3; v. 286; p. 75.  
 Ladder, Car-. F. Jager. No. 1,376,696; May 3; v. 286; p. 59.  
 Ladder-clamp. R. K. Chute. No. 1,374,060; Apr. 5; v. 285; p. 132.  
 Ladder, Extension-. P. Pasquariello. No. 1,383,014; June 28; v. 287; p. 676.  
 Ladder, Folding. H. F. Speckman, Jr. No. 1,371,125; Mar. 8; v. 284; p. 305.  
 Ladder-foot extension. O. A. Alm. No. 1,377,543; May 10; v. 286; p. 278.  
 Ladder-hook. F. M. Stiles. No. 1,393,048; Oct. 11.  
 Ladder-legs, Non-slipping foot for. Z. L. Hurd. No. 1,382,833; June 28; v. 287; p. 641.  
 Ladder, Orchard-. L. Briles. No. 1,381,397; June 14; v. 287; p. 256.  
 Ladder-raising device. H. J. Hopkins. No. 1,394,498; Oct. 18.  
 Ladders, Safety device for. E. I. Huff. No. 1,373,133; Mar. 29; v. 284; p. 856.  
 Ladders, Safety-shoe for. H. W. Fles. No. 1,379,808; May 31; v. 286; p. 909.  
 Ladder, Step-. F. F. Hedden. No. 1,377,579; May 10; v. 286; p. 285.  
 Ladder stop, Extension-. P. Broman. No. 1,398,622; Nov. 29.  
 Ladder-support. E. N. Taylor. No. 1,393,922; Oct. 18.  
 Ladder support, Flexible-. S. T. Drozdowski. No. 1,395,563; Nov. 1.  
 Ladder, Wheeled. E. A. Foster. No. 1,384,694; July 12; v. 288; p. 348.  
 Ladle. J. H. Gray. No. 1,386,702; Aug. 9; v. 289; p. 218.  
 Ladle. W. B. Murray. No. 1,390,212; Sept. 6; v. 290; p. 131.  
 Ladle-heating by high-frequency currents. E. F. Northrup. No. 1,378,188; May 17; v. 286; p. 455.  
 Ladle-tilt hook operating mechanism. L. J. Robb and R. M. Bickley. No. 1,371,812; Mar. 15; v. 284; p. 502.  
 Lady's hand-bag. M. Kaufman. No. 1,376,099; Apr. 26; v. 285; p. 699.  
 Lake. A. Linz. No. 1,369,252; Feb. 22; v. 283; p. 607.  
 Lake or pond. J. B. Kirby. No. 1,376,889; May 3; v. 286; p. 97.  
 Lambs' tails, Machine for docking. R. C. Harvey. No. 1,399,479; Dec. 6.  
 Laminated article. O. S. Marckworth. No. 1,368,954; Feb. 15; v. 283; p. 509.  
 Laminated construction and apparatus for use in connection therewith, Producing. S. Thomas. No. 1,398,244; Nov. 29.  
 Laminated structure and making same. V. G. Apple. No. 1,390,242; Sept. 6; v. 290; p. 136.  
 Lamp: See—  
 Miner's electric safety-lamp.  
 Lamp. G. Crosetti. No. 1,385,430; July 26; v. 288; p. 655.  
 Lamp. E. J. Dailey, Jr. No. 1,393,432; Oct. 11.  
 Lamp. H. A. Douglas. No. 1,377,412; May 10; v. 286; p. 254.  
 Lamp. C. E. Godley. No. 1,377,197; May 10; v. 286; p. 211.  
 Lamp. C. E. Godley. No. 1,382,903; June 28; v. 287; p. 654.  
 Lamp. W. W. Graft. No. 1,395,490; Nov. 1.  
 Lamp. E. A. Hawthorne. No. 1,380,100; May 31; v. 286; p. 964.  
 Lamp. E. A. Hawthorne. No. 1,383,204; June 28; v. 287; p. 712.  
 Lamp. W. Knapp. No. 1,396,439; Nov. 8.  
 Lamp. H. W. Lester. No. 1,401,415; Dec. 27.  
 Lamp. R. Osborn. No. 1,379,279; May 24; v. 286; p. 735.  
 Lamp. J. J. Rekar. No. 1,397,453; Nov. 15.  
 Lamp. E. W. Smeeton. No. 1,389,077; Aug. 30; v. 289; p. 853.  
 Lamp. G. E. Villaret. No. 1,390,070; Sept. 6; v. 290; p. 103.  
 Lamp. J. Walker. No. 1,382,259; June 21; v. 287; p. 478.  
 Lamp, Acetylene-. A. L. Hansen. No. 1,368,143; Feb. 8; v. 283; p. 304.  
 Lamp, Acetylene-. M. Stein. No. 1,376,654; May 3; v. 286; p. 52.  
 Lamp, Acetylene-gas. O. Harpold. No. 1,373,328; Mar. 29; v. 284; p. 895.  
 Lamp, Acetylene-gas. J. S. Sherman. No. 1,385,190; July 19; v. 288; p. 531.  
 Lamp, Adjustable auto-. A. Halliwell. No. 1,401,153; Dec. 27.  
 Lamp-adjuster. W. S. MacLewee. No. 1,375,224; Apr. 19; v. 285; p. 460.  
 Lamp and alarm-clock, Combined electric. N. A. I. Nielsen. No. 1,372,771; Mar. 29; v. 284; p. 784.  
 Lamp and heater, Electric. E. A. Corbin, Jr. No. 1,394,667; Oct. 25.  
 Lamp and lamp-holder. C. F. Vaughan. No. 1,387,523; Aug. 16; v. 289; p. 433.  
 Lamp and license-plate holder, Automobile. J. K. McCullagh. No. 1,394,517; Oct. 18.  
 Lamp and making same, Incandescent. O. V. Maurer. No. 1,398,032; Nov. 22.  
 Lamp and tongue-depressor, Throat-. J. E. Fitzgerald. No. 1,364,873; Jan. 11; v. 282; p. 203.  
 Lamp, Arc-. M. J. Wohl. No. 1,394,875; Oct. 25.  
 Lamp, Arc-. M. J. Wohl and H. Hertzberg. No. 1,394,876; Oct. 25.  
 Lamp, Arc incandescent electric. E. A. Gimingham. No. 1,374,647; Apr. 12; v. 285; p. 287.  
 Lamp, Automobile-. A. H. and N. O. Gould. No. 1,368,430; Feb. 15; v. 283; p. 408.  
 Lamp, Automobile signal-. G. W. Bringman. No. 1,381,701; June 14; v. 287; p. 314.  
 Lamp, Battery hand-. C. Hambuechen. No. 1,377,477; May 10; v. 286; p. 267.  
 Lamp base, Electric-. E. B. Wilcox. No. 1,368,590; Feb. 15; v. 283; p. 439.  
 Lamp, Battery hand-. C. Hambuechen. No. 1,365,988; Jan. 18; v. 282; p. 459.  
 Lamp, Battery hand-. T. J. Madigan. No. 1,364,393; Jan. 4; v. 282; p. 67.  
 Lamp-bracket. E. G. Camelinat. No. 1,386,453; Aug. 2; v. 289; p. 95.  
 Lamp-bracket. E. A. Hawthorne. No. 1,379,761; May 31; v. 286; p. 900.  
 Lamp bracket, Spotlight-. F. W. Reese. No. 1,392,850; Oct. 4.  
 Lamp bracket, Portable electric-. M. Claussen and G. H. Bradt. No. 1,401,672; Dec. 27.  
 Lamp brackets, Support for signal-. F. Rapp. No. 1,397,843; Nov. 22.  
 Lamp-burner. A. Meyer. No. 1,380,728; June 7; v. 287; p. 77.  
 Lamp-burner. C. H. Mullican. No. 1,383,964; July 5; v. 288; p. 146.  
 Lamp-burner. D. H. Schroeder. No. 1,375,936; Apr. 26; v. 285; p. 628.  
 Lamp-burners, Extinguishing attachment for. F. Racz. No. 1,369,126; Feb. 22; v. 283; p. 582.  
 Lamp construction. S. F. Arbuckle. No. 1,376,599; May 3; v. 286; p. 42.  
 Lamp construction. H. C. Foster. No. 1,373,878; Apr. 5; v. 285; p. 97.  
 Lamp construction. C. L. De Martin and W. M. Matteoli. No. 1,366,905; Feb. 1; v. 283; p. 5.  
 Lamp construction. C. L. De Martin, W. M. Matteoli, and S. F. Arbuckle. No. 1,376,191; Apr. 26; v. 285; p. 676.  
 Lamp construction, Latch for. H. C. Foster. No. 1,390,773; Sept. 13; v. 290; p. 336.  
 Lamp, Dash-. C. Bramming. No. 1,398,313; Nov. 29.  
 Lamp-dimming device, Automobile-. F. E. Spelman. No. 1,373,209; Mar. 29; v. 284; p. 872.  
 Lamp-door construction. C. L. De Martin. No. 1,369,732; Feb. 22; v. 283; p. 700.  
 Lamp, Electric. J. P. Nikonow. No. 1,392,441; Oct. 4.  
 Lamp, Electric glow-. H. Baumhauer. No. 1,401,510; Dec. 27.  
 Lamp, Electric pocket-. O. Hoffmann. No. 1,392,163; Sept. 27; v. 290; p. 753.  
 Lamp, Electric-arc. H. B. Grylls and W. Heape. No. 1,364,751; Jan. 4; v. 282; p. 136.  
 Lamp, Electric incandescent. H. Ozaki. No. 1,374,766; Apr. 12; v. 285; p. 309.  
 Lamp, Electric pocket-. C. Boltschauser. No. 1,365,636; Jan. 11; v. 282; p. 350.  
 Lamp, Electric pocket-. J. O. Junghans. No. 1,367,781; Feb. 8; v. 283; p. 235.  
 Lamp-extinguisher. H. Zajac. No. 1,400,845; Dec. 20.  
 Lamp-extinguishing device, Time-retarded. M. H. Baker. No. 1,388,504; Aug. 23; v. 289; p. 685.  
 Lamp-fixture. C. J. Henschel. No. 1,377,480; May 10; v. 286; p. 267.  
 Lamp-fixture. S. C. Hoey. No. 1,374,569; Apr. 12; v. 285; p. 271.  
 Lamp fixture, Electric-. L. Armitage. No. 1,394,529; Oct. 25.  
 Lamp focal adjustment. E. G. K. Anderson. No. 1,389,571; Sept. 6; v. 290; p. 3.  
 Lamp-focusing device. J. L. Minick. No. 1,400,227; Dec. 13.  
 Lamp for automobiles, &c., Spot-. H. P. Thompson. No. 1,388,220; Aug. 23; v. 289; p. 628.  
 Lamp for automobiles, Trouble-. N. Couch. No. 1,372,403; Mar. 22; v. 284; p. 672.  
 Lamp for motor-vehicles, &c. P. M. Hoffman. No. 1,388,567; Aug. 23; v. 289; p. 697.  
 Lamp for vehicles. N. Elliott. No. 1,389,037; Aug. 30; v. 289; p. 845.  
 Lamp, Gage-. N. A. Levitan. No. 1,399,628; Dec. 6.  
 Lamp globe or shade. R. H. Beeman. No. 1,399,042; Dec. 6.  
 Lamp-guard. W. Lumley. No. 1,369,929; Mar. 1; v. 284; p. 33.  
 Lamp-guard and handle, Combined. G. E. Purple. No. 1,382,800; June 28; v. 287; p. 635.  
 Lamp, Hand-. C. F. Burgess. (Reissue.) No. 15,022; Jan. 11; v. 282; p. 351.  
 Lamp, Hand-. C. Hambuechen. No. 1,388,948; Aug. 30; v. 289; p. 827.  
 Lamp hanger, Electric-. N. L. Cohn. No. 1,368,239; Feb. 15; v. 283; p. 370.



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- Lamp-holder. W. and A. W. Smith. No. 1,370,231; Mar. 4; v. 284; p. 90.
- Lamp-holder and reflector, Combined. J. J. Johnson. No. 1,376,941; May 3; v. 286; p. 107.
- Lamp-holder for miners' caps. J. Barta. No. 1,397,200; Nov. 15.
- Lamp-house. L. A. Hoberdier. No. 1,370,315; Mar. 1; v. 284; p. 106.
- Lamp-housing. L. P. Ellison. No. 1,366,370; Jan. 25; v. 282; p. 577.
- Lamp, Incandescent. W. A. Darrah. No. 1,385,608; July 26; v. 288; p. 692.
- Lamp, Incandescent electric. J. A. Heany. No. 1,399,722; Dec. 6.
- Lamp, Instrument-board. C. Bramming. No. 1,400,208; Dec. 13.
- Lamp-lens closures, Means for securing. W. M. Matteoli. No. 1,389,958; Sept. 6; v. 290; p. 81.
- Lamp-lenses, Fastening means for. H. C. Foster and W. F. Thomas. No. 1,390,029; Sept. 6; v. 290; p. 95.
- Lamp lock, Incandescent. S. L. Adelson. No. 1,389,112; Aug. 30; v. 289; p. 859.
- Lamp, Magneto pocket. G. M. Beaudot. No. 1,380,180; May 31; v. 286; p. 979.
- Lamp, Mercury. H. George. No. 1,398,545; Nov. 29.
- Lamp, Mercury-vapor. M. J. Cornu. No. 1,400,346; Dec. 13.
- Lamp, Miner's carbid. I. I. Billings. No. 1,401,129; Dec. 27.
- Lamp, Miner's. E. M. Erickson. No. 1,366,371; Jan. 25; v. 282; p. 577.
- Lamp, Miner's. G. Turner. No. 1,371,823; Mar. 15; v. 284; p. 504.
- Lamp, Miner's electric safety. J. W. Jones. No. 1,373,820; Apr. 5; v. 285; p. 86.
- Lamp, Miner's electric safety. T. Stretton. No. 1,373,842; Apr. 5; v. 285; p. 90.
- Lamp, Motometer. J. R. Kerns. No. 1,386,179; Aug. 2; v. 289; p. 43.
- Lamp mounting for vehicles, Extension. B. J. Grigsby. No. 1,389,585; Sept. 6; v. 290; p. 5.
- Lamp mounting, Vehicle. C. H. Wolfe. No. 1,376,988; May 3; v. 286; p. 116.
- Lamp-operating mechanism. A. H. Baesemann. No. 1,382,710; June 28; v. 287; p. 618.
- Lamp, Parking. E. A. Jarvis. No. 1,368,340; Feb. 15; v. 283; p. 390.
- Lamp parts, Apparatus for manufacturing incandescent. W. P. Dickson. No. 1,368,552; Feb. 15; v. 283; p. 432.
- Lamp, Pocket hand. J. Graves. No. 1,375,586; Apr. 19; v. 285; p. 529.
- Lamp, Pocket hand. J. Graves. No. 1,375,587; Apr. 19; v. 285; p. 529.
- Lamp, Portable electric. D. C. Conkling. No. 1,368,700; Feb. 15; v. 283; p. 461.
- Lamp, Portable electric. W. A. Harvey. No. 1,380,143; May 31; v. 286; p. 972.
- Lamp, Portable electric. J. W. Higgins. No. 1,400,819; Dec. 20.
- Lamp, Portable electric. F. M. Rosenfeld. No. 1,379,697; May 31; v. 286; p. 888.
- Lamp, Portable electric. L. E. Shaw and F. M. Rosenfeld. No. 1,397,705; Nov. 22.
- Lamp, Portable electric. L. E. Sills. No. 1,401,820; Dec. 27.
- Lamp, Portable hand. H. M. Koretzky and I. Fertman. No. 1,360,084; Jan. 18; v. 282; p. 478.
- Lamp, Safety. N. A. Auert. No. 1,376,243; Apr. 26; v. 285; p. 686.
- Lamp, Safety. F. T. Forster. No. 1,369,644; Feb. 22; v. 283; p. 683.
- Lamp, Sanctuary. G. L. Cook and J. F. Schmider. No. 1,389,490; Aug. 30; v. 289; p. 935.
- Lamp-securing means. H. Klein. No. 1,384,961; July 19; v. 288; p. 483.
- Lamp-shade. E. F. Guth. No. 1,374,648; Apr. 12; v. 285; p. 287.
- Lamp-shade. E. M. Harvey. No. 1,374,735; Apr. 12; v. 285; p. 303.
- Lamp-shade. A. Scherer. No. 1,398,305; Nov. 29.
- Lamp-shade holder. H. J. Keith. No. 1,374,576; Apr. 12; v. 285; p. 273.
- Lamp-shade holder. L. H. Casswell. No. 1,381,796; June 14; v. 287; p. 331.
- Lamp shade and tester. V. A. Guy. No. 1,395,819; Nov. 1.
- Lamp-shades, Mounting. S. R. Schwartz. No. 1,389,013; Aug. 30; v. 289; p. 840.
- Lamp shades or domes, Curtain for. H. A. F. Kurre. No. 1,399,564; Dec. 6.
- Lamp, Signal. W. F. McMahon. No. 1,380,155; May 31; v. 286; p. 975.
- Lamp-socket. C. J. Klein. No. 1,378,467; May 17; v. 286; p. 507.
- Lamp-socket, Cluster. T. O'Donnell. No. 1,391,904; Sept. 27; v. 290; p. 700.
- Lamp-socket, Cluster. E. G. Schattle. No. 1,385,844; July 26; v. 288; p. 740.
- Lamp-socket, Duplex. W. J. Koenig. No. 1,392,176; Sept. 27; v. 290; p. 755.
- Lamp socket, Electric. H. F. Hitner. No. 1,380,063; May 31; v. 286; p. 958.
- Lamp socket, Electric. D. Hjorth. No. 1,388,645; Aug. 23; v. 289; p. 712.
- Lamp socket, Incandescent-electric. N. W. Nutt. No. 1,366,699; Jan. 25; v. 282; p. 643.
- Lamp socket, Incandescent-electric. N. W. Nutt. No. 1,366,702; Jan. 25; v. 282; p. 643.
- Lamp-socket for Christmas trees, Miniature. A. C. Recker. No. 1,387,907; Aug. 16; v. 289; p. 510.
- Lamp-socket-interior cover and shade-holder, Combined incandescent. A. C. Recker. No. 1,383,663; July 5; v. 288; p. 84.
- Lamp-sockets, Facile assembly for. E. H. Freeman. No. 1,369,645; Feb. 22; v. 283; p. 683.
- Lamp sockets, Key attachment for electric. A. Papini. No. 1,365,722; Jan. 18; v. 282; p. 407.
- Lamp sockets, Shade-support for incandescent-electric. A. C. Recker. No. 1,383,662; July 5; v. 288; p. 84.
- Lamp stand, Electric. H. Lerner. No. 1,383,132; June 28; v. 287; p. 698.
- Lamp-support, Adjustable. W. Lorey. No. 1,395,847; Nov. 1.
- Lamp-supporting bracket. E. A. Hawthorne. No. 1,370,585; Mar. 8; v. 284; p. 202.
- Lamp-supporting device. F. G. Whittington. No. 1,374,268; Apr. 12; v. 285; p. 213.
- Lamp switch, Hand. L. A. Miller. No. 1,368,278; Feb. 15; v. 283; p. 378.
- Lamp, Tractor. C. D. Ryder. No. 1,386,803; Aug. 9; v. 289; p. 238.
- Lamp-turning apparatus, Automobile. A. G. and J. S. Frechette. No. 1,370,957; Mar. 8; v. 284; p. 274.
- Lamp, Vehicle. F. H. Headley. No. 1,388,340; Aug. 23; v. 289; p. 652.
- Lamp, Vehicle. F. W. Wakefield. No. 1,365,135; Jan. 11; v. 282; p. 255.
- Lamp, Vehicle. F. W. Wakefield. No. 1,369,756; Feb. 22; v. 283; p. 705.
- Lamp-Vehicle. F. G. Whittington. No. 1,381,376; June 14; v. 287; p. 252.
- Lamp voltage-regulator. W. A. Turbayne. No. 1,367,844; Feb. 8; v. 283; p. 247.
- Lamp voltage-regulator. W. A. Turbayne. No. 1,367,845; Feb. 8; v. 283; p. 248.
- Lamp-voltage regulator. W. A. Turbayne. No. 1,393,855; Oct. 18.
- Lamp-wick regulator. J. C. Robert, Jr. No. 1,394,354; Oct. 18.
- Lamp with rotary arc, Electric-arc. L. Mauclair, A. Garbarini, and G. Gautier. No. 1,390,456; Sept. 13; v. 290; p. 271.
- Lamps and switches, Illuminator for. J. K. Richie. No. 1,367,891; Feb. 8; v. 283; p. 256.
- Lamps, Adjustably-hinged tilting reflector for. S. F. Arbuckle. No. 1,376,993; May 3; v. 286; p. 117.
- Lamps, Attachment for desk. H. D. McFadden. No. 1,384,394; July 12; v. 288; p. 285.
- Lamps, Cleaner for burners of carbid. J. W. Jacobson and J. E. Turja. No. 1,397,170; Nov. 15.
- Lamps, Delayed cut-off for incandescent gas. R. D. Smith. No. 1,383,574; July 5; v. 288; p. 65.
- Lamps, Delayed cut-off for inverted gas. R. D. Smith. No. 1,383,575; July 5; v. 288; p. 65.
- Lamps, Focusing apparatus for. E. F. Wackwitz. No. 1,398,531; Nov. 29.
- Lamps, Focusing socket for electric. E. A. Snow. No. 1,396,294; Nov. 8.
- Lamps, Hinge for lens-bezels of motor-car. A. Reeves. No. 1,367,204; Feb. 1; v. 283; p. 64.
- Lamps, Holder for the glowers of tungsten. O. Schaller. No. 1,400,005; Dec. 13.
- Lamps, Locking device for incandescent. L. M. Topoosian. No. 1,391,868; Sept. 27; v. 290; p. 693.
- Lamps, Making incandescent. O. V. Maurer. No. 1,398,033; Nov. 22.
- Lamps, Means for positioning. E. A. Everett. No. 1,388,634; Aug. 23; v. 289; p. 710.
- Lamps, Mounting for incandescent. R. F. Strickland. No. 1,373,920; Apr. 5; v. 285; p. 105.
- Lamps, Protective device for incandescent. C. A. B. Halvorson, Jr. No. 1,379,560; May 24; v. 286; p. 788.
- Lamps, Reflector for head. C. N. Weems. No. 1,398,987; Dec. 6.
- Lamps, Shade-holder for incandescent electric. H. J. Morse. No. 1,371,182; Mar. 8; v. 284; p. 316.
- Lamps, Socket for incandescent electric. O. Kroehle. No. 1,386,412; Aug. 2; v. 289; p. 88.
- Lamps, Socket-shell for incandescent electric. W. E. Hawkins. No. 1,383,626; July 5; v. 288; p. 676.
- Lamps, Socket for tubular. M. Chaler. No. 1,389,740; Sept. 6; v. 290; p. 36.
- Lamps, Transparent glass screen for transmitting substantially white light from incandescent electric. D. N. McDonald. No. 1,393,804; Oct. 18.
- Lamps, Two-way-tilting reflector for. S. F. Arbuckle. No. 1,398,292; Nov. 29.
- Lampblack, Production of. J. M. Gerard and H. J. Mason, Jr. No. 1,364,273; Jan. 4; v. 282; p. 45.
- Land, Machine for ridging. V. E. Parrish. (Reissue). No. 15,213; Oct. 25.
- Land scraping and leveling machine. J. T. Compton. No. 1,397,265; Nov. 15.
- Landscape. I. H. Jarvis. No. 1,395,575; Nov. 1.
- Lantern. E. C. Kneip. No. 1,388,267; Aug. 23; v. 289; p. 633.



- Lantern. R. Lewis. No. 1,392,774; Oct. 4.  
 Lantern-ball. J. H. Molthan. No. 1,372,185; Mar. 22; v. 284; p. 629.  
 Lantern burner, Projection-. S. A. Bliss. No. 1,367,582; Feb. 8; v. 283; p. 197.  
 Lantern, Dark-room. W. A. Bell. No. 1,374,714; Apr. 12; v. 285; p. 299.  
 Lantern, Dissolving projection-. W. L. Patterson. No. 1,365,723; Jan. 18; v. 282; p. 407.  
 Lantern, Electric. L. D. Brainerd. No. 1,380,091; May 31; v. 286; p. 963.  
 Lantern, Electric. J. Haack. No. 1,384,017; July 5; v. 288; p. 157.  
 Lantern, Electric. L. A. Hornburg. No. 1,391,831; Sept. 27; v. 290; p. 685.  
 Lantern, Electric. J. W. Smith. No. 1,400,775; Dec. 20.  
 Lantern, Flagman's. C. L. Liken. No. 1,392,775; Oct. 4.  
 Lantern, Leather-handle. C. F. Rossetter. No. 1,367,505; Feb. 1; v. 283; p. 124.  
 Lantern, Optical-projection. J. Granz. No. 1,399,111; Dec. 6.  
 Lantern, Railway-. C. R. Craig. No. 1,370,092; Mar. 1; v. 284; p. 64.  
 Lantern, Signal-. L. D. Peters. No. 1,389,158; Aug. 30; v. 289; p. 869.  
 Lantern-slide. J. F. Coufal. No. 1,376,677; May 3; v. 286; p. 55.  
 Lantern-slides, Automatic projection apparatus for. P. Dietz. No. 1,371,871; Mar. 15; v. 284; p. 813.  
 Lantern-support. S. J. Anker. No. 1,366,710; Jan. 25; v. 282; p. 645.  
 Lapping-tool. C. Scherer. No. 1,382,552; June 21; v. 287; p. 534.  
 Laps, seams, and scale, Rolling round metal bars to eliminate. T. Llewellyn, Jr. No. 1,381,572; June 14; v. 287; p. 289.  
 Larch, Recovery of organic products from. H. F. Weiss. No. 1,364,418; Jan. 4; v. 282; p. 72.  
 Lard and butter cutter. W. H. Shaffer. No. 1,390,170; Sept. 6; v. 290; p. 123.  
 Lashing-cutter. P. J. and M. J. Clarke. No. 1,397,362; Nov. 15.  
 Last. G. Clausung. No. 1,378,998; May 24; v. 286; p. 682.  
 Last. W. A. Krentler. No. 1,367,742; Feb. 8; v. 283; p. 228.  
 Last. J. M. Madigan. No. 1,364,775; Jan. 4; v. 282; p. 140.  
 Last. J. H. Poole. No. 1,383,149; June 28; v. 287; p. 702.  
 Last. G. C. Schelter. No. 1,372,779; Mar. 29; v. 284; p. 785.  
 Last. H. T. Wright and W. A. Brown. No. 1,370,574; Mar. 8; v. 284; p. 200.  
 Last, Expandable shoe-. C. Schevitz. No. 1,379,478; May 24; v. 286; p. 772.  
 Last, High-arch-repair. G. Doering. No. 1,375,282; Apr. 19; v. 285; p. 471.  
 Last, Interchangeable. G. G. Campini. No. 1,381,702; June 14; v. 287; p. 314.  
 Last-marker. J. Burger. No. 1,389,857; Sept. 6; v. 290; p. 60.  
 Last-measuring machine. F. H. Thompson. No. 1,395,310; Nov. 1.  
 Last, Orthopedic. E. J. Bliss. No. 1,387,038; Aug. 9; v. 289; p. 286.  
 Last-pulling machine. M. F. Brogan. No. 1,383,284; July 5; v. 288; p. 5.  
 Last-pulling machine. J. H. Richardson. No. 1,398,344; Nov. 29.  
 Lasts, Machine for mounting shoes on. C. M. Bollman. No. 1,383,519; July 5; v. 288; p. 53.  
 Lasts, Machine for shaping uppers to. R. F. McFeely. No. 1,366,472; Jan. 25; v. 282; p. 598.  
 Lasts, Machine for shaping uppers to. B. Jorgensen. No. 1,379,923; May 31; v. 286; p. 930.  
 Lasts, Machine for shaping uppers over. B. Jorgensen. No. 1,392,336; Oct. 4.  
 Lasts, Machine for shaping uppers to. B. Jorgensen. No. 1,379,924; May 31; v. 286; p. 931.  
 Lasts, Machine for working uppers over. U. J. Bouchard. No. 1,381,162; June 14; v. 287; p. 213.  
 Lasting, End-. M. Brock. No. 1,373,483; Apr. 5; v. 285; p. 21.  
 Lasting-jack. R. B. Scott. No. 1,389,846; Sept. 6; v. 290; p. 58.  
 Lasting-machine. C. Ammon, Jr. No. 1,370,621; Mar. 8; v. 284; p. 210.  
 Lasting-machine. M. Brock. No. 1,373,482; Apr. 5; v. 285; p. 20.  
 Lasting-machine. M. Brock. No. 1,390,755; Sept. 13; v. 290; p. 332.  
 Lasting-machine. J. W. Cosgrove. No. 1,388,852; Aug. 30; v. 289; p. 807.  
 Lasting-machine. R. E. Duplessis. No. 1,399,754; Dec. 13.  
 Lasting-machine. J. B. Hadaway. No. 1,400,816; Dec. 20.  
 Lasting-machine. A. A. Macleod. No. 1,401,167; Dec. 27.  
 Lasting-machine. F. W. Merrick. No. 1,392,590; Oct. 4.  
 Lasting-machine. C. F. Pym. No. 1,368,968; Feb. 15; v. 283; p. 511.  
 Lasting-machine. T. H. Seely. No. 1,372,782; Mar. 20; v. 284; p. 786.  
 Lasting-machine. T. H. Seely. No. 1,399,892; Dec. 13.  
 Lasting machine, Heel-. C. C. Blake. No. 1,386,681; Aug. 9; v. 289; p. 213.  
 Lasting machine, Shank-. C. C. Blake. No. 1,373,402; Apr. 5; v. 285; p. 4.  
 Lasting machines, Gripper mechanism for. A. E. Jerram and F. B. Keall. No. 1,372,882; Mar. 29; v. 284; p. 807.  
 Lasting mechanism. T. Lund. No. 1,382,006; June 21; v. 287; p. 431.  
 Lasting mechanism, End-. C. F. Pym. No. 1,393,396; Oct. 11.  
 Latch. E. Applegate. No. 1,394,659; Oct. 25.  
 Latch. N. O. Billings. No. 1,371,341; Mar. 15; v. 284; p. 410.  
 Latch. C. R. Bumbarger. No. 1,386,551; Aug. 2; v. 289; p. 114.  
 Latch. F. E. Davis. No. 1,379,537; May 24; v. 286; p. 784.  
 Lathe. H. S. Eades. No. 1,399,199; Dec. 6.  
 Latch. G. Frank. No. 1,395,568; Nov. 1.  
 Latch. A. Gagnon. No. 1,376,755; May 3; v. 286; p. 71.  
 Latch. J. A. Gustus. No. 1,398,374; Nov. 29.  
 Latch. L. W. Holland. No. 1,383,302; July 5; v. 288; p. 9.  
 Latch. L. F. McNally. No. 1,385,632; July 26; v. 288; p. 697.  
 Latch. L. Ottinger. No. 1,386,422; Aug. 2; v. 289; p. 90.  
 Latch. E. A. and J. F. Schruth. No. 1,384,782; July 19; v. 288; p. 446.  
 Latch. J. S. Thompson. No. 1,386,382; Aug. 2; v. 289; p. 82.  
 Latch. F. M. Wagner. No. 1,364,661; Jan. 4; v. 282; p. 118.  
 Latch. A. F. Winters and B. R. Crampton. No. 1,385,102; July 19; v. 288; p. 513.  
 Latch and lock. A. F. Erickson and D. W. Shiek. No. 1,387,643; Aug. 16; v. 289; p. 457.  
 Latch and opener, Car-door. J. T. Brady. No. 1,370,515; Mar. 8; v. 284; p. 189.  
 Latch, Automatic. P. Maturo. No. 1,394,635; Oct. 25.  
 Latch construction. E. O. Bulman. No. 1,383,523; July 5; v. 288; p. 54.  
 Latch, Crank-handle. E. E. Phinney. No. 1,396,663; Nov. 8.  
 Latch device. J. A. Kulier. No. 1,396,441; Nov. 8.  
 Latch device. A. W. Swanson. No. 1,370,928; Mar. 8; v. 284; p. 268.  
 Latch, Door-. C. E. Anderson. No. 1,372,000; Mar. 22; v. 284; p. 595.  
 Latch, Door-. C. E. Anderson. No. 1,372,923; Mar. 29; v. 284; p. 815.  
 Latch, Door-. A. E. Bloxson. No. 1,370,681; Mar. 8; v. 284; p. 221.  
 Latch, Door-. T. L. Church. No. 1,378,583; May 17; v. 286; p. 52.  
 Latch, Door-. J. J. Malone. No. 1,368,041; Feb. 8; v. 283; p. 283.  
 Latch, Door-. P. S. Riel. No. 1,368,573; Feb. 15; v. 283; p. 436.  
 Latch for cabinet-closures. L. Ribeiro. No. 1,377,437; May 10; v. 286; p. 259.  
 Latch for doors. J. A. Edgerly. No. 1,380,545; June 7; v. 287; p. 42.  
 Latch for doors, &c. W. H. Sheehan and J. W. Eckard. No. 1,395,527; Nov. 1.  
 Latch for handbags, Lift-. B. J. Richardson and C. S. Barber. No. 1,377,276; May 10; v. 286; p. 227.  
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 Latch mechanism. F. Jarzyna. No. 1,368,730; Feb. 15; v. 283; p. 466.  
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 Latch mechanism for garage-doors. W. G. Winans. No. 1,388,229; Aug. 23; v. 289; p. 630.  
 Latch-needle-making machine. W. H. Dayton. No. 1,381,810; June 14; v. 287; p. 334.  
 Latch, Refrigerator-door-. C. R. Chenery. No. 1,381,799; June 14; v. 287; p. 332.  
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 Latch, Setting-. L. E. Baker. No. 1,395,891; Nov. 1.  
 Latch, Tail-gate. P. E. Barker. No. 1,383,691; July 5; v. 288; p. 90.  
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 Latches, Automatic safety spring-. A. E. Salsich. No. 1,393,246; Oct. 11.  
 Latches for automobile-hoods. T. J. Kehoe. No. 1,364,283; Jan. 4; v. 282; p. 47.  
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- Lath, Expanded-metal. C. W. Dickinson. No. 1,372,741; Mar. 29; v. 284; p. 778.
- Lath machine, Expanded-metal. F. C. Arey. No. 1,384,376; July 12; v. 288; p. 281.
- Laths, Machines for producing composite metal. F. Nos-sagk. No. 1,398,141; Nov. 22.
- Laths, Producing. A. H. Carrier. No. 1,394,273; Oct. 18.
- Lathing. T. N. Badger. No. 1,372,387; Mar. 22; v. 284; p. 669.
- Lathing-sheet. H. C. Hansen. No. 1,382,357; June 21; v. 287; p. 496.
- Lathe. H. Baerbalck. No. 1,369,157; Feb. 22; v. 283; p. 588.
- Lathe. W. T. Carnes. No. 1,379,393; May 24; v. 286; p. 757.
- Lathe. J. Carson. No. 1,367,459; Feb. 1; v. 283; p. 115.
- Lathe. L. G. Daniels. No. 1,393,206; Oct. 11.
- Lathe. N. F. Fretter. No. 1,398,226; Nov. 29.
- Lathe. J. E. Johnson. No. 1,374,378; Apr. 12; v. 285; p. 234.
- Lathe. A. H. Lloyd. No. 1,398,731; Nov. 29.
- Lathe and shaper tool holder. C. L. Shepardson. No. 1,373,363; Mar. 29; v. 284; p. 902.
- Lathe attachment. M. G. Husted. No. 1,401,702; Dec. 27.
- Lathe, Automatic. L. G. Daniels. No. 1,393,205; Oct. 11.
- Lathe, Automatic. E. Scheyer. No. 1,381,752; June 14; v. 287; p. 323.
- Lathe, Automatic. C. G. Whitaker. No. 1,366,757; Jan. 25; v. 282; p. 655.
- Lathe, Automatic multiple-spindle. W. G. Berry. No. 1,396,807; Nov. 15.
- Lathe-bed. K. and A. H. Olsson. No. 1,389,687; Sept. 6; v. 290; p. 25.
- Lathe, Boring-. C. L. Taylor. No. 1,388,905; Aug. 30; v. 289; p. 818.
- Lathe-center. L. Beeman. No. 1,399,921; Dec. 13.
- Lathe-center. E. H. Davis and R. D. Baker. No. 1,400,731; Dec. 20.
- Lathe-center and dog, Combined. A. E. Pearson. No. 1,364,205; Jan. 4; v. 282; p. 31.
- Lathes, Combination handwheel and face-plate for. A. S. Kurkjian. No. 1,399,969; Dec. 13.
- Lathe, Copying-. C. L. Schwarz. No. 1,375,326; Apr. 19; v. 285; p. 480.
- Lathe, Crank-pin. L. J. Kirchenbauer. No. 1,372,075; Mar. 22; v. 284; p. 609.
- Lathe-dog. C. G. Cachman. No. 1,368,485; Feb. 15; v. 283; p. 419.
- Lathe-dog. C. C. Fessenden. No. 1,375,499; Apr. 19; v. 285; p. 512.
- Lathe-dog. W. L. Mason. No. 1,380,822; June 7; v. 287; p. 96.
- Lathe-dog. H. Smith. No. 1,367,284; Feb. 1; v. 283; p. 80.
- Lathe grinding attachment. G. M. Sherman. No. 1,385,649; July 26; v. 288; p. 701.
- Lathe, Relieving-. F. Müller. (Reissue.) No. 1,517; July 19; v. 288; p. 563.
- Lathe, Screw-cutting. F. H. Daniels. No. 1,371,606; Mar. 15; v. 284; p. 463.
- Lathe, Staff-. R. G. Moore. No. 1,379,645; May 31; v. 286; p. 879.
- Lathe-tool. G. W. Dover. No. 1,366,366; Jan. 25; v. 282; p. 576.
- Lathe-tool. G. W. Dover. No. 1,366,367; Jan. 25; v. 282; p. 576.
- Lathe-tool holder. W. S. Catlin. No. 1,383,981; July 5; v. 288; p. 150.
- Lathe-tool holder. L. Kramer and A. Boome. No. 1,394,628; Oct. 25.
- Lathe, Turning and facing. W. F. Groene. No. 1,393,115; Oct. 11.
- Lathe, Turret-. F. W. Parsons. No. 1,387,305; Aug. 9; v. 289; p. 338.
- Lathes, Automatic feed and reverse for. M. G. Husted. No. 1,393,131; Oct. 11.
- Lathes, Back-facing attachment for. G. G. Porter. No. 1,385,491; July 26; v. 288; p. 668.
- Lathes, Compound tool rest and holder for. W. S. Gooding. No. 1,383,299; July 5; v. 288; p. 8.
- Lathes, Cross-slide for. F. W. Parsons. No. 1,382,380; June 21; v. 287; p. 501.
- Lathes, Cut-off attachment for. J. C. Nicholson. No. 1,373,253; Mar. 29; v. 284; p. 881.
- Lathes, Driving-chuck for railway-wheel. C. D. Andrew. No. 1,370,010; Mar. 1; v. 284; p. 49.
- Lathes, &c., Dust-collector for. C. G. Strock. No. 1,386,539; Aug. 2; v. 289; p. 112.
- Lathes, Face-plate-loosening device for. F. K. Hendrickson. No. 1,365,826; Jan. 18; v. 282; p. 428.
- Lathes, Grinding attachment for. C. Hardy. No. 1,368,499; Feb. 15; v. 283; p. 421.
- Lathes, Headstock mechanism of. W. E. Ward. No. 1,389,919; Sept. 6; v. 290; p. 73.
- Lathes, Last-engaging dog for last-. W. H. Kay. No. 1,368,035; Feb. 8; v. 283; p. 282.
- Lathes, Multiple-jaw-setting attachment for steady-rests for. W. S. and W. E. McConnell. No. 1,378,253; May 17; v. 286; p. 467.
- Lathes or the like, Dog or driving-carrier for. J. W. Barnes. No. 1,365,144; Jan. 11; v. 282; p. 256.
- Lathes, planing-machines, and the like, Cutting-tool for use in. W. R. Paige. No. 1,367,087; Feb. 1; v. 283; p. 41.
- Lathes, Tailstock for. J. J. Witt. No. 1,369,152; Feb. 22; v. 283; p. 587.
- Lathes, Taper attachment for. W. F. Groene. No. 1,401,534; Dec. 27.
- Lathes, Work centering and balancing device for the face-plates of. H. R. MacCordy. No. 1,386,128; Aug. 2; v. 289; p. 33.
- Lathes, Work-rest attachment for. R. E. Flanders. No. 1,368,252; Feb. 15; v. 283; p. 373.
- Lather-cup. L. A. Amis. No. 1,369,767; Mar. 1; v. 284; p. 3.
- Lattice-truss. J. C. McKeown. No. 1,372,078; Mar. 22; v. 284; p. 609.
- Launching-cradles, Releasing device for. J. J. Scollan. No. 1,394,223; Oct. 18.
- Laundry apparatus. M. J. Fleming. No. 1,394,159; Oct. 18.
- Laundry-clip. L. Kiml. No. 1,396,639; Nov. 8.
- Laundry-distributing machine. J. R. Sousa. No. 1,389,278; Aug. 30; v. 289; p. 893.
- Laundry-drier. A. Kendrick. No. 1,398,490; Nov. 29.
- Laundry-form. F. E. O'Brien. No. 1,400,763; Dec. 20.
- Laundry-hanger. W. Benczalski. No. 1,368,383; Feb. 15; v. 283; p. 398.
- Laundry-iron, Electrically-heated. E. N. Lightfoot. No. 1,364,122; Jan. 4; v. 282; p. 15.
- Laundry-machine. A. L. Hoffman. No. 1,371,091; Mar. 8; v. 284; p. 299.
- Laundry-machines, Controlling mechanism for. T. Birkenmaier. No. 1,374,810; Apr. 12; v. 285; p. 318.
- Laundry-machines, Driving mechanism for. L. W. Mammen. No. 1,384,267; July 12; v. 288; p. 258.
- Laundry-segregating bin. R. H. Tyner. No. 1,381,896; June 14; v. 287; p. 351.
- Laundry-tub. M. Shults. No. 1,373,980; Apr. 5; v. 285; p. 118.
- Laundry-washing machine. G. R. Boomer. No. 1,389,619; Sept. 6; v. 290; p. 12.
- Laundrying-machine. J. H. and A. H. Siert. No. 1,380,602; June 7; v. 287; p. 52.
- Laundrying-machine. J. H. and A. H. Siert. No. 1,389,388; Aug. 30; v. 289; p. 915.
- Lavatories, Sanitary basin for. C. H. Windsor. No. 1,379,152; May 24; v. 286; p. 711.
- Lavatory. H. L. Bradley. No. 1,385,604; July 26; v. 288; p. 691.
- Lavatory, Portable cabinet-. J. A. Terry. No. 1,374,778; Apr. 12; v. 285; p. 311.
- Lavatory and water-heater, Combined. J. S. Nicholl. No. 1,378,185; May 17; v. 286; p. 454.
- Lawn cutter and cultivator. A. W. Miller. No. 1,370,219; Mar. 1; v. 284; p. 88.
- Lawn-edge trimmer. J. Ehne. No. 1,374,641; Apr. 12; v. 285; p. 286.
- Lawn-edging machine. C. Rosel. No. 1,400,627; Dec. 20.
- Lawn-mower attachment. W. J. Boll. No. 1,388,794; Aug. 23; v. 289; p. 741.
- Lawn-mower attachment. W. J. Boll. No. 1,399,601; Dec. 6.
- Lawn-mower attachment for use on terraces. T. J. Kallauer. No. 1,368,503; Feb. 15; v. 283; p. 422.
- Lawn-mowers, Grass-catcher for. T. A. Powell. No. 1,400,907; Dec. 20.
- Lawn-mowers, Wheel for. A. Johnston and C. M. Kraner. No. 1,382,089; June 21; v. 287; p. 446.
- Lawn or garden table. C. L. Solberg. No. 1,390,651; Sept. 13; v. 290; p. 312.
- Lawn-sprinkler. C. E. Brooks. No. 1,380,464; June 7; v. 287; p. 27.
- Lawn-sprinkler. J. J. Donegan. No. 1,377,409; May 10; v. 286; p. 254.
- Lawn-swing. G. H. Bugenhagen. No. 1,378,004; May 17; v. 286; p. 420.
- Lawn-swing. W. N. Jay. No. 1,376,698; May 3; v. 286; p. 60.
- Lawn-trimming device. T. Corrow. No. 1,372,670; Mar. 29; v. 284; p. 764.
- Lawn-weeder. W. Linhoff. No. 1,381,569; June 14; v. 287; p. 288.
- Layout device. C. E. Hawkes. No. 1,370,645; Mar. 8; v. 284; p. 215.
- Lead, Apparatus for ornamenting. G. Durhan. No. 1,376,083; Apr. 26; v. 285; p. 656.
- Lead arsenate, Making. M. L. Tower and F. L. Bigtrup. No. 1,387,213; Aug. 9; v. 289; p. 319.
- Lead arsenate, Manufacture of. R. E. Wilson. No. 1,393,474; Oct. 11.
- Lead-arsenate preparation. M. S. Hopkins, J. Kirby, and C. B. Barnhart. No. 1,398,267; Nov. 29.
- Lead bullion, Treating. G. P. Hulst and M. W. Krejčí. No. 1,386,503; Aug. 2; v. 289; p. 105.
- Lead-carbonate ores, Treating. N. C. Christensen. No. 1,390,603; Sept. 13; v. 290; p. 302.
- Lead, Dezinizing. H. Harris. No. 1,395,820; Nov. 1.
- Lead, Making arsenate of. M. L. Tower. No. 1,387,212; Aug. 9; v. 289; p. 319.
- Lead mattes, Method and apparatus for separating foreign substances from. E. A. Sperry. No. 1,401,743; Dec. 27.



- Lead oxid, Process and apparatus for the production of. H. S. Reed and H. L. Publow. No. 1,376,581; May 3; v. 286; p. 38.
- Lead-stacking machine. A. A. Thiele and J. W. Ingersoll. No. 1,389,794; Sept. 6; v. 290; p. 47.
- Lead with oil, Mixing white. A. S. Moses. No. 1,371,926; Mar. 15; v. 284; p. 524.
- Leader, Fair-. A. J. Johnston. No. 1,392,687; Oct. 4.
- Leaf-holder. A. W. Wadewitz. No. 1,399,675; Dec. 6.
- Leaf metal, Paper material coated with. F. Tscheike. No. 1,376,737; May 3; v. 286; p. 67.
- Leaf-spring. R. Simmons. No. 1,371,003; Mar. 8; v. 284; p. 282.
- Leaf-spring. W. E. Slater. No. 1,390,649; Sept. 13; v. 290; p. 312.
- Leaf-spring lubricator. J. F. Murphy. No. 1,365,119; Jan. 11; v. 282; p. 251.
- Leaf-springs, Antifriction-bearing for. E. H. Grafton. No. 1,365,240; Jan. 11; v. 282; p. 274.
- Leaf-springs, Antifriction device for. C. C. Carek. No. 1,396,251; Nov. 8.
- Leaf-springs, Device for preventing friction between the leaves of. T. S. Hamilton. No. 1,371,166; Mar. 8; v. 284; p. 313.
- Leaf-springs, Lubricating-strip for. T. S. Hamilton. No. 1,371,165; Mar. 8; v. 284; p. 313.
- Leaf stemming and booking machine. J. F. Moeller. No. 1,400,228; Dec. 13.
- Leaf-turner. J. C. Holcom. No. 1,364,992; Jan. 11; v. 282; p. 226.
- Leaf-turning device. O. W. Olson. No. 1,375,723; Apr. 26; v. 285; p. 588.
- Leak-detector. B. Carlisle. No. 1,384,888; July 19; v. 288; p. 468.
- Leakproof joint. H. W. Wereley. No. 1,389,542; Aug. 30; v. 289; p. 945.
- Leather and product thereof, Production of artificial patent. H. J. Haon. No. 1,372,021; Mar. 22; v. 284; p. 599.
- Leather and using the same, Coloring-matter for. J. H. Pfingsten. No. 1,371,572; Mar. 15; v. 284; p. 457.
- Leather-burnishing mechanism. B. Hall. No. 1,382,504; June 21; v. 287; p. 525.
- Leather, Coloring and finishing the surface of grain-. W. H. Meade and S. H. Friestedt. No. 1,376,961; May 3; v. 286; p. 111.
- Leather-cutting machine. T. F. Hickey. No. 1,390,612; Sept. 13; v. 290; p. 304.
- Leather-cutting machine. C. A. Sawyer, Jr. No. 1,379,420; May 24; v. 286; p. 762.
- Leather-cutting machine, Upper-. S. J. Beebe. No. 1,387,828; Aug. 16; v. 289; p. 495.
- Leather-finishes and making same, Color-base for. J. H. Pfingsten. No. 1,393,697; Oct. 11.
- Leather-finishing machine. W. E. Feige. No. 1,365,389; Jan. 11; v. 282; p. 303.
- Leather-folding machine. J. W. Anthony. No. 1,365,648; Jan. 18; v. 282; p. 392.
- Leather-folding machine. J. W. Anthony. No. 1,386,676; Aug. 9; v. 289; p. 212.
- Leather loops, Stapling machine for. F. H. Wilbur. No. 1,400,843; Dec. 20.
- Leather, Machine for plugging. G. A. Schick. No. 1,368,059; Feb. 8; v. 283; p. 287.
- Leather-making. P. Brant and H. T. Wilson. No. 1,378,213; May 17; v. 286; p. 459.
- Leather, Material resembling. D. Beatty. No. 1,382,947; June 28; v. 287; p. 663.
- Leather, Method for finishing. W. H. Meade and S. H. Friestedt. No. 1,385,184; July 19; v. 288; p. 530.
- Leather, Method of and apparatus for treating. C. L. Whitney. No. 1,376,238; Apr. 26; v. 285; p. 685.
- Leather or other goods, Apparatus for treating. W. J. Walker. No. 1,365,573; Jan. 11; v. 282; p. 339.
- Leather-preserver. H. A. Muths. No. 1,398,600; Nov. 29.
- Leather-press. E. Richard. No. 1,395,469; Apr. 19; v. 285; p. 507.
- Leather, Reclaiming waste. J. K. Mitchell. No. 1,394,329; Oct. 18.
- Ledger-sheet. C. A. Hammer. No. 1,397,096; Nov. 15.
- Leather, Treating. S. O. Hahn. No. 1,369,240; Feb. 22; v. 283; p. 604.
- Leather, Utilization of waste or scraps of. M. Nakayama and K. Adachi. No. 1,400,899; Dec. 20.
- Leather with the assistance of iron salts, Making. O. Röhm. No. 1,364,316; Jan. 4; v. 282; p. 53.
- Leather with the assistance of iron salts, Producing. O. Röhm. No. 1,364,317; Jan. 4; v. 282; p. 53.
- Leather-working machine. L. O. Ramsdell. No. 1,377,434; May 10; v. 286; p. 258.
- Leather-working machine. C. A. Sawyer, Jr. No. 1,375,935; Apr. 26; v. 285; p. 628.
- Leather-working machine. C. A. Williams. No. 1,382,584; June 21; v. 287; p. 540.
- Leather, yarns, jute, and like materials, Machine for drying. C. Stephens. No. 1,384,359; July 12; v. 288; p. 277.
- Leaven, Making. R. Nacimiento. No. 1,380,828; June 7; v. 287; p. 97.
- Leaves, Machine for making artificial. G. G. Focke. No. 1,401,062; Dec. 20.
- Ledger. J. C. Dawson. No. 1,383,537; July 5; v. 288; p. 57.
- Ledger-sheet. J. A. B. Smith. No. 1,386,375; Aug. 2; v. 289; p. 81.
- Leg, Artificial. J. P. Knudsen. No. 1,375,299; Apr. 19; v. 285; p. 475.
- Leg, Artificial. J. Nevin. No. 1,372,365; Mar. 22; v. 284; p. 664.
- Leg, Artificial. E. Sauze. No. 1,376,292; Apr. 26; v. 285; p. 696.
- Leg, Artificial. S. Savastano. No. 1,366,027; Jan. 18; v. 282; p. 467.
- Leg, Artificial. C. B. Winn. No. 1,379,293; May 24; v. 286; p. 738.
- Leg-band, Spiral. M. Bayerdorffer. No. 1,395,333; Nov. 1.
- Leg construction. H. J. Gwyer. No. 1,401,772; Dec. 27.
- Leg protector and support. L. Harris. No. 1,380,901; June 7; v. 287; p. 111.
- Leg-support. E. Rawlinson. No. 1,400,625; Dec. 20.
- Legs, Ankle-joint for artificial. A. Lang. No. 1,365,177; Jan. 11; v. 282; p. 262.
- Legs, Coaptating socket for artificial. J. F. Rowley. No. 1,365,424; Jan. 11; v. 282; p. 310.
- Legging. F. G. Chamberlin. No. 1,367,860; Feb. 8; v. 283; p. 251.
- Legging. F. G. Chamberlin. No. 1,399,929; Dec. 13.
- Legging. H. Marcus. No. 1,367,750; Feb. 8; v. 283; p. 229.
- Lens. A. G. Miller and C. McMullen. No. 1,385,570; July 26; v. 288; p. 684.
- Lens. H. H. Styl. No. 1,364,960; Jan. 11; v. 282; p. 220.
- Lens. E. D. Tillyer. No. 1,393,853; Oct. 18.
- Lens and making same, Bifocal. L. W. Bugbee. No. 1,376,673; May 3; v. 286; p. 55.
- Lens, Astigmatic. W. C. Greene. No. 1,367,960; Feb. 8; v. 283; p. 269.
- Lens attachment. E. D. Tillyer. No. 1,395,311; Nov. 1.
- Lens, Bifocal. L. W. Bugbee. No. 1,396,503; Nov. 8.
- Lens, Bifocal. L. W. Bugbee. No. 1,397,920; Nov. 22.
- Lens, Bifocal. P. R. Walsh. No. 1,396,303; Nov. 8.
- Lens-blanks, Forming. H. K. Parsons. No. 1,370,042; Mar. 1; v. 284; p. 54.
- Lens-cutting machine. W. W. Slade. No. 1,388,774; Aug. 23; v. 289; p. 737.
- Lens-drill. J. Moffitt. No. 1,370,035; Mar. 1; v. 284; p. 53.
- Lens-edge-grinding machine. J. F. and T. N. Ashton. No. 1,373,831; May 24; v. 286; p. 651.
- Lens-edge-grinding machine. L. Wilhelm. No. 1,367,933; Feb. 8; v. 283; p. 263.
- Lens-front mount. C. Vall. No. 1,396,388; Nov. 8.
- Lens-grinder. A. Pellow. No. 1,399,400; Dec. 6.
- Lens-grinding disks, Machine for truings. G. A. Squier. No. 1,384,643; July 12; v. 288; p. 337.
- Lens-grinding machine. L. W. Bugbee. No. 1,387,232; Aug. 9; v. 289; p. 322.
- Lens-grinding machine. L. G. Simpson. No. 1,381,245; June 14; v. 287; p. 228.
- Lens-grinding machine. L. G. Simpson. No. 1,381,246; June 14; v. 287; p. 228.
- Lens-grinding machine. L. G. Simpson. No. 1,381,247; June 14; v. 287; p. 228.
- Lens, Headlight-. H. J. Wagner. No. 1,383,250; June 28; v. 287; p. 721.
- Lens-holder. W. S. Mayer. No. 1,385,699; July 26; v. 288; p. 711.
- Lens-mount and assembling same, Focusing. C. W. Frederick. No. 1,394,078; Oct. 18.
- Lens, Multifocal. G. A. Clement. No. 1,401,238; Dec. 27.
- Lens-polishing machine. L. W. Bugbee. No. 1,366,159; Jan. 18; v. 282; p. 492.
- Lens-testing instrument. E. D. Tillyer and C. H. Kerr. No. 1,383,678; July 5; v. 288; p. 87.
- Lenses, Adhesive for. F. M. Bishop. No. 1,386,046; Aug. 2; v. 289; p. 17.
- Lenses, Fastener for headlight. F. G. Lee. No. 1,364,564; Jan. 4; v. 282; p. 100.
- Lenses, Finishing and testing. F. Twyman. No. 1,386,663; Aug. 9; v. 289; p. 209.
- Lenses, Headlight diffraction-. C. G. Peters. No. 1,397,822; Nov. 22.
- Lenses, Making bifocal. P. C. Plasterer. No. 1,373,633; Apr. 5; v. 285; p. 49.
- Lenses, Making bifocal. H. A. Scheuerle. No. 1,383,863; July 5; v. 288; p. 126.
- Lenses, Means for polishing multifocal. L. W. Bugbee. No. 1,397,399; Nov. 15.
- Lenses, Means for polishing multifocal. C. Green. No. 1,372,747; Mar. 29; v. 284; p. 779.
- Lenses, Optical. H. W. Hill. (Reissue.) No. 15,064; Mar. 15; v. 284; p. 538.
- Let-off mechanism. A. B. Weissenborn. No. 1,391,435; Sept. 20; v. 290; p. 533.
- Letter-box. I. W. Preotorius. No. 1,369,125; Feb. 22; v. 283; p. 582.
- Letter-holder. N. W. Greason. No. 1,367,375; Feb. 1; v. 283; p. 98.
- Letter-opener. A. Blist. No. 1,371,843; Mar. 15; v. 284; p. 508.
- Letter-sheet. D. D. Schulman. No. 1,394,362; Oct. 18.



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- Letters, Machine for postmarking and canceling. W. H. Bowes. No. 1,399,288; Dec. 6.
- Level and bevel, Combination. W. C. Hoyt. No. 1,393,533; Oct. 11.
- Level. J. Happle. No. 1,384,062; July 12; v. 288; p. 216.
- Level. J. Kidd. No. 1,381,844; June 14; v. 287; p. 340.
- Level. R. Walker. No. 1,380,611; June 7; v. 287; p. 54.
- Level. A. Villeneuve. No. 1,370,567; Mar. 8; v. 284; p. 199.
- Level device. C. F. Thullen. No. 1,393,328; Oct. 11.
- Level-holder. F. Butler. No. 1,388,023; Aug. 16; v. 289; p. 532.
- Level-indicating apparatus. H. H. Frey. No. 1,399,205; Dec. 6.
- Level indicator and reserve-valve, Combined fluid. H. Hastings. No. 1,392,415; Oct. 4.
- Level, Line and surface. F. B. Hall. No. 1,369,652; Feb. 22; v. 283; p. 685.
- Level, Protractor-. H. F. Loeschner. No. 1,382,923; June 28; v. 287; p. 658.
- Level, Spirit-. G. Q. Bedortha. No. 1,393,338; Oct. 11.
- Leveler and dirt-scraper. L. J. Mitchell. No. 1,400,968; Dec. 20.
- Leveler and drag, Land-. J. M. Vigil. No. 1,368,585; Feb. 15; v. 283; p. 438.
- Leveling and measuring instrument. J. Mazzacco. No. 1,383,960; July 5; v. 288; p. 145.
- Leveler. J. F. Rapp. No. 1,397,784; Nov. 22.
- Leveler, Revolving self-dumping. J. M. Conley. No. 1,373,799; Apr. 5; v. 285; p. 81.
- Leveling apparatus, Self-. J. Bakovich. No. 1,382,711; June 28; v. 287; p. 618.
- Leveling instrument. W. Berkman. No. 1,369,957; Mar. 1; v. 284; p. 39.
- Leveling machine, Sole-. W. C. Baxter. No. 1,368,320; Feb. 15; v. 283; p. 386.
- Lever. O. F. H. Carlson. No. 1,392,299; Oct. 4.
- Lever. F. D. Wilson. No. 1,391,152; Sept. 20; v. 290; p. 475.
- Lever-control mechanism. A. H. Gledhill. No. 1,391,948; Sept. 27; v. 290; p. 709.
- Lever, Controller lock-. A. R. Williams. No. 1,385,935; July 26; v. 288; p. 757.
- Lever-counterbalance. F. Cheney. No. 1,387,833; Aug. 16; v. 289; p. 496.
- Lever, Door-shaft. D. Hindahl. No. 1,394,621; Oct. 25.
- Lever, Hand-operated. E. Dvorak. No. 1,377,817; May 10; v. 286; p. 332.
- Lever, Jack-actuating. C. M. Markham. No. 1,401,172; Dec. 27.
- Lever-lock. J. S. Campbell. No. 1,382,169; June 21; v. 287; p. 460.
- Lever-lock. G. M. Gorden. No. 1,388,035; Aug. 16; v. 289; p. 534.
- Lever-lock. S. S. Morton. No. 1,382,529; June 21; v. 287; p. 529.
- Lever-locking device. C. W. Dwelle. No. 1,377,413; May 10; v. 286; p. 254.
- Lever-locking device. J. A. Graham. No. 1,375,289; Apr. 19; v. 285; p. 473.
- Lever-locking device, Transmission-. A. M. Hamilton and G. W. Dorse. No. 1,369,024; Feb. 22; v. 283; p. 563.
- Lever mechanism. N. Ayers. No. 1,392,618; Oct. 4.
- Lever mechanism. R. L. Ford. No. 1,366,565; Jan. 25; v. 282; p. 617.
- Lever, Spring-suspension. G. F. Voight. No. 1,378,155; May 17; v. 286; p. 449.
- Levers, Holding means for clutch-. A. H. Hughes and H. S. Curren. No. 1,382,643; June 28; v. 287; p. 605.
- Levers, Lock for controlling. A. C. Saxton and H. J. Menard. No. 1,394,359; Oct. 18.
- Levers, Locking device for gear-shift. C. E. Mentzer. No. 1,391,200; Sept. 20; v. 290; p. 484.
- Levers, Safety-lock for. C. A. A. Rand. No. 1,400,909; Dec. 20.
- Levers, Safety-lock for foot-. H. Gellman. No. 1,384,251; July 12; v. 288; p. 255.
- License-certificate-display case. S. R. Seese. No. 1,392,661; Oct. 4.
- License-certificates, Display-case for. S. R. Seese. No. 1,395,999; Nov. 1.
- License-holder. H. E. Palmer. No. 1,385,949; July 26; v. 288; p. 760.
- License holder and illuminator. B. M. Diver. No. 1,368,026; Feb. 8; v. 283; p. 281.
- License-indicator. H. O. Wiemann. No. 1,378,640; May 17; v. 286; p. 541.
- License-indicating device, Auto. H. A. Kleine. No. 1,372,436; Mar. 22; v. 284; p. 678.
- License-number carrier. K. A. Smeby and G. W. Akin. No. 1,400,630; Dec. 20.
- License-number plate and tail-light. L. J. Walshe. No. 1,381,038; June 7; v. 287; p. 137.
- License-number plate for automobiles. G. S. Raven. No. 1,389,983; Sept. 6; v. 290; p. 85.
- License-number-plate holder. W. R. Young. No. 1,386,751; Aug. 9; v. 289; p. 227.
- License-plate and tail-light, Combined. W. F. Other. No. 1,386,018; Aug. 2; v. 289; p. 11.
- License-plate. G. W. Campion. No. 1,397,032; Nov. 15.
- License-plate holder. H. Brewster. No. 1,383,978; July 5; v. 288; p. 149.
- License-plate holder and danger-signal, Combination. C. P. Armstrong. No. 1,371,190; Mar. 8; v. 284; p. 318.
- License-plate, Illuminated. L. R. Grannis. No. 1,395,491; Nov. 1.
- License-plates, Illuminator for. W. H. Lynch. No. 1,378,548; May 17; v. 286; p. 523.
- License-plate, Illuminated. G. H. Needham. No. 1,376,220; Apr. 26; v. 285; p. 682.
- License-tag-attaching device. M. E. Wing. No. 1,387,090; Aug. 9; v. 289; p. 297.
- License-tag holder. J. Fried. No. 1,397,730; Nov. 22.
- License-tag holder and means to illuminate same. A. D. Hill. No. 1,390,291; Sept. 13; v. 290; p. 239.
- Licenses, Holder for automobile. G. W. Boynton. No. 1,374,182; Apr. 12; v. 285; p. 197.
- Licorice-root extract, Preparing. K. Ito. No. 1,389,663; Sept. 6; v. 290; p. 21.
- Lid-holder. A. J. Cunningham. No. 1,390,766; Sept. 13; v. 290; p. 334.
- Lid-operating device. W. M. Earhart. No. 1,377,818; May 10; v. 286; p. 332.
- Lid-operating device. W. C. and E. O. Hagley. No. 1,384,254; July 12; v. 288; p. 255.
- Lid-support. C. A. Ahlstrom. No. 1,379,794; May 31; v. 286; p. 906.
- Lid-support. H. A. Hamacher. No. 1,372,503; Mar. 22; v. 284; p. 691.
- Lid-support. E. E. Lutzhoff. No. 1,378,591; May 17; v. 286; p. 532.
- Lid-support. F. Oberst. No. 1,395,350; Nov. 1.
- Lid-supporter. C. Ambruster. No. 1,367,681; Feb. 8; v. 283; p. 215.
- Lid-supporter. R. T. Bell. No. 1,390,751; Sept. 13; v. 290; p. 331.
- Life-buoy. A. Dudas. No. 1,375,494; Apr. 19; v. 285; p. 511.
- Life-preserver. A. D. Bailey. No. 1,366,344; Jan. 25; v. 282; p. 572.
- Life-preserver. A. D. Bailey. No. 1,366,345; Jan. 25; v. 282; p. 572.
- Life-preserver. A. D. Bailey. No. 1,366,347; Jan. 25; v. 282; p. 572.
- Life-preserver. A. D. Frantz. No. 1,397,248; Nov. 15.
- Life-preserver. A. P. Lundin. No. 1,394,180; Oct. 18.
- Life-preserver. G. H. Pallady. No. 1,385,581; July 26; v. 288; p. 686.
- Life-preserver. W. P. Tibbits. No. 1,390,474; Sept. 13; v. 290; p. 274.
- Life-preserver. O. A. Youngren and J. A. Watt. No. 1,374,623; Apr. 12; v. 285; p. 282.
- Life-raft. A. W. Lyda. No. 1,369,289; Feb. 22; v. 283; p. 613.
- Life-saving apparatus. V. Holmgren. No. 1,365,244; Jan. 11; v. 282; p. 275.
- Life-saving apparatus. G. Picco. No. 1,378,273; May 17; v. 286; p. 471.
- Life-saving apparatus. H. W. Walters. No. 1,380,026; May 31; v. 286; p. 950.
- Life-saving device. W. G. Parmele. No. 1,400,976; Dec. 20.
- Life-saving device. P. Zeleznoff. No. 1,372,469; Mar. 22; v. 284; p. 684.
- Life-saving suit. K. Souliotis. No. 1,375,803; Apr. 26; v. 285; p. 602.
- Life-sustaining apparatus. P. Habrich. No. 1,394,824; Oct. 25.
- Lifeboat. B. E. Torgersen. No. 1,398,451; Nov. 29.
- Lifeboat-chock, Collapsible. A. P. Schat. No. 1,373,768; Apr. 5; v. 285; p. 75.
- Lifeboat-derrick. C. H. Fuller. No. 1,386,102; Aug. 2; v. 289; p. 28.
- Lifeboat or raft. W. Stewart. No. 1,390,935; Sept. 13; v. 290; p. 369.
- Lifeboat-supporting apparatus. D. MacBeth. No. 1,385,258; July 19; v. 288; p. 544.
- Lifeboats, Device for launching. E. Hubert. No. 1,380,194; May 31; v. 286; p. 982.
- Lifeboats, Keel-support with clamps for. J. de Beer. No. 1,364,730; Jan. 4; v. 282; p. 132.
- Lifeboats, Launching device for. G. F. Hall. No. 1,389,869; Sept. 6; v. 290; p. 62.
- Lift-grab. J. N. Lindquist. No. 1,369,976; Mar. 1; v. 284; p. 42.
- Lifelike simulations to inanimate objects, Producing. J. E. Williamson. No. 1,378,641; May 17; v. 286; p. 541.
- Lift mechanism, Wheel-operated. H. E. Altgelt. No. 1,378,754; May 17; v. 286; p. 563.
- Lift. See—  
Plow-lift.
- Lifter. See—  
Auto-lifter.  
Automobile-lifter.  
Barrel-lifter.  
Can-cover lifter.  
Can-top lifter.  
Candy-lifter.  
Closure-lifter.  
Cooking-vessel lifter.  
Couch-roll lifter.  
Engine-lifter.  
Hay-rack lifter.  
Hot-plate lifter.  
Pipe-lifter.  
Plate-lifter.  
Pot-lifter.  
Receptacle-lid lifter.  
Tire-lifter.  
Utensil-lifter.  
Valve-lifter.  
Valve-spring lifter.



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- Lifting apparatus. G. N. Crawford. No. 1,384,051; July 12; v. 288; p. 214.  
 Lifting apparatus, Portable. L. Quet. No. 1,380,591; June 7; v. 287; p. 50.  
 Lifting-clamp. W. M. Hench. No. 1,369,807; Mar. 1; v. 284; p. 10.  
 Lifting device. J. M. Allen. No. 1,368,534; Feb. 15; v. 283; p. 429.  
 Lifting device. W. J. Quinn. No. 1,378,900; May 24; v. 286; p. 664.  
 Lifting device, Self-locking. J. McDowell. No. 1,373,438; Apr. 5; v. 285; p. 11.  
 Lifting-jack. G. R. Adams. No. 1,399,729; Dec. 13.  
 Lifting-jack. J. O. Barrett. No. 1,390,867; Sept. 13; v. 290; p. 354.  
 Lifting-jack. J. Bjornlie. No. 1,364,175; Jan. 4; v. 282; p. 25.  
 Lifting-jack. G. Brocke. No. 1,367,857; Feb. 8; v. 283; p. 260.  
 Lifting-jack. G. J. Campbell. No. 1,376,511; May 3; v. 286; p. 25.  
 Lifting-jack. E. A. Clark. No. 1,401,761; Dec. 27.  
 Lifting-jack. E. H. Cohorst. No. 1,364,117; Jan. 4; v. 282; p. 14.  
 Lifting-jack. W. L. Day. No. 1,374,831; Apr. 12; v. 285; p. 322.  
 Lifting-jack. W. L. Day. No. 1,399,693; Dec. 6.  
 Lifting-jack. W. C. Engel. No. 1,397,925; Nov. 22.  
 Lifting-jack. W. H. Fowkes. No. 1,396,951; Nov. 15.  
 Lifting-jack. W. H. Fowkes and M. J. Harkless. No. 1,396,952; Nov. 15.  
 Lifting-jack. F. L. Gormley. No. 1,378,226; May 17; v. 286; p. 462.  
 Lifting-jack. A. Gustinna. No. 1,400,054; Dec. 13.  
 Lifting-jack. P. J. Harrah. No. 1,374,653; Apr. 12; v. 285; p. 288.  
 Lifting-jack. J. G. Harrison. No. 1,389,504; Aug. 30; v. 289; p. 937.  
 Lifting-jack. W. N. Harsen. No. 1,395,821; Nov. 1.  
 Lifting-jack. J. L. Herold. No. 1,389,355; Aug. 30; v. 289; p. 908.  
 Lifting-jack. A. H. Johnson. No. 1,381,125; June 14; v. 287; p. 206.  
 Lifting-jack. H. R. Jones. No. 1,369,282; Feb. 22; v. 283; p. 612.  
 Lifting-jack. C. A. Jones. No. 1,384,322; July 12; v. 288; p. 269.  
 Lifting-jack. H. M. Knox. No. 1,396,440; Nov. 8.  
 Lifting-jack. V. R. Koontz. No. 1,368,733; Feb. 15; v. 283; p. 467.  
 Lifting-jack. J. C. Kopf. No. 1,397,870; Nov. 22.  
 Lifting-jack. G. Lane and G. J. Campbell. No. 1,372,521; Mar. 22; v. 284; p. 694.  
 Lifting-jack. G. O. Leopold. No. 1,395,123; Oct. 25.  
 Lifting-jack. W. E. Lombard. No. 1,396,858; Nov. 15.  
 Lifting-jack. G. W. Meyer and C. A. Roos. No. 1,395,650; Nov. 1.  
 Lifting-jack. J. A. Morrison. No. 1,370,344; Mar. 1; v. 284; p. 111.  
 Lifting-jack. J. A. Murnin. No. 1,378,265; May 17; v. 286; p. 469.  
 Lifting-jack. A. Neal. No. 1,384,539; July 12; v. 288; p. 315.  
 Lifting-jack. A. Neal. No. 1,385,489; July 26; v. 288; p. 668.  
 Lifting-jack. E. R. Penrose. No. 1,377,026; May 3; v. 286; p. 123.  
 Lifting-jack. A. Peteler. No. 1,393,242; Oct. 11.  
 Lifting-jack. F. L. Rapson. No. 1,387,905; Aug. 16; v. 289; p. 509.  
 Lifting-jack. J. Raven. No. 1,398,798; Nov. 29.  
 Lifting-jack. M. D. Riker. No. 1,366,332; Jan. 18; v. 282; p. 526.  
 Lifting-jack. M. D. Riker. No. 1,390,642; Sept. 13; v. 290; p. 311.  
 Lifting-jack. C. W. Ripsch and J. C. Dawley. No. 1,376,831; May 3; v. 286; p. 86.  
 Lifting-jack. J. G. Sauer. No. 1,393,247; Oct. 11.  
 Lifting-jack. G. Stodden. No. 1,377,640; May 10; v. 286; p. 297.  
 Lifting-jack. C. A. Watson. No. 1,377,950; May 10; v. 286; p. 358.  
 Lifting-jack. W. S. Wilkins. No. 1,379,736; May 31; v. 286; p. 895.  
 Lifting-jack. L. R. Willour. No. 1,373,475; Apr. 5; v. 285; p. 19.  
 Lifting-jack. C. R. Winter. No. 1,365,758; Jan. 18; v. 282; p. 414.  
 Lifting-jack and hauler. C. E. Clews. No. 1,376,136; Apr. 26; v. 285; p. 666.  
 Lifting-jack and tire expander and contractor. J. Dreher and L. A. Olmschen, Combination. No. 1,393,271; Oct. 11.  
 Lifting-jack, Roller-base. S. P. Barker. No. 1,400,931; Dec. 20.  
 Lifting-jacks, Brake mechanism for. F. L. Gormley. No. 1,383,201; June 28; v. 287; p. 712.  
 Lifting-jacks, Device for retarding the speed of lowering of self-run-down. F. L. Gormley. No. 1,383,202; June 28; v. 287; p. 712.  
 Lifting-jacks, Governor mechanism for. W. E. Lombard. No. 1,384,202; July 12; v. 288; p. 245.  
 Lifting-jacks, Operating mechanism for. C. D. Derby. No. 1,372,868; Mar. 29; v. 284; p. 804.  
 Lifting-jacks, Retarding mechanism for. W. E. Lombard. No. 1,383,221; June 28; v. 287; p. 715.  
 Lifting-jacks, Speed-retarding device for. F. L. Gormley. No. 1,395,340; Nov. 1.  
 Light: See—  
 Aerial signal-light. Motor-meter light.  
 Automobile-headlight. Motor-vehicle light.  
 Automobile-light. Occulting light.  
 Ceiling-light. Parking-light.  
 Curtain-light. Portable electric light.  
 Dirigible light. Portable electric-arc light.  
 Dirigible spotlight. Ship's light.  
 Electric light. Spot-light.  
 Electric spotlight. Pocket-light.  
 Flash-light. Porch-light.  
 Flood-light. Port-light.  
 Glass pavement-light. Portable electric light.  
 Gymnasium-light. Spotlight.  
 Headlight. Vehicle-light.  
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 Light and license-tag holder. Tail. C. Ringham and W. H. Klingberg. No. 1,397,330; Nov. 15.  
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 Light. J. A. Aird. No. 1,401,852; Dec. 27.  
 Light-beams, Producing. C. F. Jenkins. No. 1,390,445; Sept. 13; v. 290; p. 269.  
 Light-bowl holder, Indirect. C. H. Rockey. No. 1,375,180; Apr. 19; v. 285; p. 452.  
 Light, Ceiling-. L. W. Andersen. No. 1,380,131; May 31; v. 286; p. 970.  
 Light-controlling-device holder. A. J. Sweet. No. 1,367,638; Feb. 8; v. 283; p. 207.  
 Light-deflector. W. Ellsworth and R. E. Mackellar. No. 1,383,702; July 5; v. 288; p. 92.  
 Light-deflector. J. A. Loveland and M. L. Fisher. No. 1,399,355; Dec. 6.  
 Light-director. H. M. Earle, A. Vaugeois, and F. Carston. No. 1,370,795; Mar. 8; v. 284; p. 243.  
 Light-dissolver. H. M. Ewing. No. 1,401,329; Dec. 27.  
 Light-extinguisher. D. Leard. No. 1,397,873; Nov. 22.  
 Light-fixture. A. E. Wiedenhoef. No. 1,399,232; Dec. 6.  
 Light-focusing mechanism. W. S. Mayer. No. 1,385,697; July 26; v. 288; p. 710.  
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 Light. Photographer's portable. C. R. Reeves. No. 1,370,842; Mar. 8; v. 284; p. 252.  
 Light-projecting apparatus. J. C. Ryan. No. 1,382,016; June 21; v. 287; p. 433.  
 Light projection. D. F. Comstock. No. 1,377,184; May 10; v. 286; p. 209.  
 Light projection or distribution. J. T. Robin. No. 1,400,990; Dec. 20.  
 Light-projector. L. C. Josephs, Jr. No. 1,370,971; Mar. 8; v. 284; p. 276.  
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 Light-regulator. A. A. Tirrill. No. 1,376,841; May 3; v. 286; p. 88.  
 Light-shield. O. P. Smith. No. 1,387,200; Aug. 9; v. 289; p. 316.  
 Light-support. C. S. Farriss. No. 1,380,889; June 7; v. 287; p. 108.  
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 Light-switch, Automatic. W. T. Waiker. No. 1,369,860; Mar. 1; v. 284; p. 20.  
 Lights, Automatic directing system for guide-. A. D. Trenor. No. 1,377,294; May 10; v. 286; p. 231.  
 Lighter, Electric. B. L. Déchelle. No. 1,371,869; Mar. 15; v. 284; p. 513.  
 Lighting and power set, Automatic farm. B. Schilling. No. 1,377,223; May 10; v. 286; p. 217.  
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- Lighting-fixture. W. Harrison. No. 1,374,654; Apr. 12; v. 285; p. 288.
- Lighting-fixture. C. R. Leimecke. No. 1,383,831; July 5; v. 288; p. 119.
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- Lighting-fixture. A. R. Locke. No. 1,396,936; Nov. 15.
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- Lighting system. H. D. Rohman. No. 1,365,545; Jan. 11; v. 282; p. 333.
- Lighting system. Car. H. D. Rohman. No. 1,365,544; Jan. 11; v. 282; p. 333.
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- Lighting system for automobiles. R. Varley. No. 1,380,275; May 31; v. 286; p. 997.
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- Limb and the like, Artificial. J. A. Loth. No. 1,390,915; Sept. 13; v. 290; p. 365.
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- Limb, Artificial. O. L. Dilworth. No. 1,385,669; July 26; v. 288; p. 705.
- Limb, Artificial. D. W. Dorrance. No. 1,387,133; Aug. 9; v. 289; p. 304.
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- Limb, Artificial. A. A. Erb. No. 1,400,042; Dec. 13.
- Limb, Artificial. J. J. Everson. No. 1,369,016; Feb. 22; v. 283; p. 561.
- Limb, Artificial. R. N. Flanagan. No. 1,370,299; Mar. 1; v. 284; p. 103.
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- Limb, Artificial. A. Pecorella, V. Patricola, and F. H. Apel. No. 1,380,835; June 7; v. 287; p. 98.
- Limb, Artificial. A. Pringle and T. S. Kirk. No. 1,384,850; July 19; v. 288; p. 461.
- Limb, Artificial. A. Pringle and T. S. Kirk. No. 1,397,654; Nov. 22.
- Limb, Artificial. J. F. Rowley. No. 1,368,575; Feb. 15; v. 283; p. 437.
- Limb, Artificial. J. F. Rowley. No. 1,375,860; Apr. 26; v. 285; p. 613.
- Limb, Artificial. J. W. Smith. No. 1,368,851; Feb. 15; v. 283; p. 490.
- Limb, Artificial. O. E. Worman. No. 1,383,364; July 5; v. 288; p. 22.
- Limb, Artificial. O. E. Worman. No. 1,383,365; July 5; v. 288; p. 22.
- Limb joint, Artificial. D. W. Dorrance. (Reissue.) No. 15,198; Sept. 20; v. 290; p. 577.
- Limb joint, Artificial. H. G. Mountain. No. 1,364,948; Jan. 11; v. 282; p. 218.
- Limb socket, Artificial. J. Abrams. No. 1,398,824; Nov. 20; v. 292; p. 1012.
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- Limbs, Attachment for artificial. H. Gould. No. 1,368,136; Feb. 8; v. 283; p. 302.
- Limbs, Compensating hinge-joint for artificial. P. H. Spracklen. No. 1,366,136; Jan. 18; v. 282; p. 488.
- Limbs, Hinge-joint for artificial. H. G. Mountain. No. 1,365,532; Jan. 11; v. 282; p. 331.
- Limbs, Joint for artificial. G. R. Bott. No. 1,365,654; Jan. 18; v. 282; p. 393.
- Limbs, Knee-joint mechanism for artificial. J. F. Rowley. No. 1,385,953; July 26; v. 288; p. 761.
- Limit-gage, Adjustable. F. H. Daniels. No. 1,367,537; Feb. 8; v. 283; p. 188.
- Limbs of fiber, Method and apparatus for making artificial. C. W. Thomas. No. 1,379,884; May 31; v. 286; p. 923.
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- Lime, Hydrate of. H. W. Charlton. No. 1,381,106; June 14; v. 287; p. 202.
- Lime-nitrogen process and product. J. M. A. Stillesen. No. 1,386,445; Aug. 2; v. 289; p. 94.
- Lime production, Quick-. W. Crow and J. C. Schaffer. No. 1,377,401; May 10; v. 286; p. 252.
- Limit-gage. A. Danielsson. No. 1,394,974; Oct. 25.
- Limit-switch. R. W. Valls. No. 1,369,147; Feb. 22; v. 283; p. 586.
- Line-casting device. D. J. Davis. No. 1,376,260; Apr. 26; v. 285; p. 690.
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- Line-holder. N. B. Miltner. No. 1,390,152; Sept. 6; v. 290; p. 119.
- Line-holding devices. A. Vanderdonck. No. 1,372,789; Mar. 29; v. 284; p. 788.
- Line-shafting. T. Walmsley. No. 1,371,654; Mar. 15; v. 284; p. 472.
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- Lingerie-clasp. F. E. Forsell. No. 1,376,613; May 3; v. 286; p. 44.
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- Lingerie-clasp. W. E. Hallam. No. 1,385,614; July 26; v. 288; p. 694.
- Lingerie-clasp. F. A. Muscente. No. 1,381,216; June 14; v. 287; p. 223.
- Lingerie-clip. E. E. Clark. No. 1,383,906; July 5; v. 288; p. 134.
- Lingual bar. H. Aderer. No. 1,371,537; Mar. 15; v. 284; p. 450.
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- Link bracelet. F. H. Felger. No. 1,376,866; May 3; v. 286; p. 93.
- Link, Chain-. P. E. Daubenspeck. No. 1,390,509; Sept. 13; v. 290; p. 282.
- Link, Connecting-. W. E. McFee. No. 1,368,175; Feb. 8; v. 283; p. 309.
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- Link, Interlocking. J. Oppman. No. 1,399,646; Dec. 6.
- Link gear. R. Flournoy. No. 1,385,123; July 19; v. 288; p. 518.
- Link, Lever, &c. H. B. Layman. No. 1,380,659; June 7; v. 287; p. 63.
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- Linoileum and product thereof, Producing. G. W. Priest. No. 1,381,737; June 14; v. 287; p. 321.
- Linoileum composition and making same. G. W. Priest. No. 1,381,738; June 14; v. 287; p. 321.
- Linoileum-cutter. W. J. Mills. No. 1,391,201; Sept. 20; v. 290; p. 485.
- Linotype and similar machines, Metal-feeder for. J. H. W. Knoop. No. 1,390,140; Sept. 6; v. 290; p. 117.
- Linotype-instruction device. H. Smith. No. 1,390,550; Sept. 13; v. 290; p. 291.
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- Liquid-agitating mechanism. N. D. Nielsen. No. 1,399,644; Dec. 6.
- Liquid, Apparatus for discharging. J. Luckenbach. No. 1,384,965; July 19; v. 288; p. 483.
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- Liquid, Apparatus for registering the flow of. A. Stuber. No. 1,387,022; Aug. 9; v. 289; p. 282.
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- Liquid-container. C. Conover. No. 1,398,841; Nov. 29.
- Liquid-containing can. W. J. Towle. No. 1,399,168; Dec. 6.
- Liquid-container, Compressed-air-feed. E. M. Posa. No. 1,377,923; May 10; v. 286; p. 353.
- Liquid-container having separable tops. C. S. Baron. No. 1,389,734; Sept. 6; v. 290; p. 35.
- Liquid-container, Illuminated. E. Galavan. No. 1,389,132; Aug. 30; v. 289; p. 863.
- Liquid-container provided with removable hinged top. C. S. Baron. No. 1,375,993; Apr. 26; v. 285; p. 639.
- Liquid-containers, Automatic drain-back for elevated. L. E. Baker. No. 1,395,890; Nov. 1.
- Liquid-containers, Combined spout and valve for. W. W. Wilson. No. 1,393,331; Oct. 11.
- Liquid-cooling apparatus. G. H. E. Davis. No. 1,380,535; June 7; v. 287; p. 40.
- Liquid-dauber. W. C. Pessels. No. 1,389,071; Aug. 30; v. 289; p. 852.
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- Liquid-dispenser. S. E. Norman. No. 1,379,357; May 24; v. 286; p. 751.
- Liquid-dispenser, Portable. W. S. Townsend. No. 1,390,476; Sept. 13; v. 290; p. 275.
- Liquid-dispensing apparatus. F. G. Farr. No. 1,383,708; July 5; v. 288; p. 94.
- Liquid-dispensing apparatus. W. S. Folant. No. 1,395,405; Nov. 1.
- Liquid-dispensing apparatus. J. Frick. No. 1,366,529; Jan. 25; v. 282; p. 609.
- Liquid-dispensing apparatus. J. J. Groetken. No. 1,372,071; Mar. 22; v. 284; p. 608.
- Liquid-dispensing apparatus. S. Hedge. No. 1,377,347; May 10; v. 286; p. 242.
- Liquid-dispensing apparatus. I. Lowy. No. 1,372,968; Mar. 29; v. 284; p. 824.
- Liquid-dispensing apparatus. E. B. Miller. No. 1,376,348; Apr. 26; v. 285; p. 707.
- Liquid-dispensing apparatus. E. E. Murphy. No. 1,394,758; Oct. 25.
- Liquid-dispensing apparatus, Safety. G. H. Poor. No. 1,376,226; Apr. 26; v. 285; p. 683.
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- Liquid-dispensing device. F. S. Cary and G. E. Russell. No. 1,375,363; Apr. 19; v. 285; p. 486.
- Liquid-dispensing device. T. E. Heeter and F. J. Hardesty. No. 1,394,010; Oct. 18.
- Liquid-dispensing device, Air-storage-tank. E. M. Posa. No. 1,377,922; May 10; v. 286; p. 352.
- Liquid-dispensing machine. C. A. Tripp. No. 1,366,221; Jan. 18; v. 282; p. 504.
- Liquid-displacement apparatus. E. F. McCarthy. No. 1,371,039; Mar. 8; v. 284; p. 289.
- Liquid-dropper. L. V. Aronson. No. 1,399,916; Dec. 13.
- Liquid-evacuator, Centrifugal. J. A. Belt. No. 1,395,218; Oct. 25.
- Liquid-extractor. O. W. Judd. No. 1,400,957; Dec. 20.
- Liquid-feeding apparatus. F. H. Wagner. No. 1,377,994; May 10; v. 286; p. 366.
- Liquid fuel and manufacturing it. L. W. Bates. No. 1,390,232; Sept. 6; v. 290; p. 134.
- Liquid-fuel burner. C. H. Allison. No. 1,394,603; Oct. 25.
- Liquid-fuel burner. J. B. Anderson, J. B. Garner, and G. A. Shaner. No. 1,384,985; July 19; v. 288; p. 489.
- Liquid-fuel burner. W. A. Doble. No. 1,373,178; Mar. 29; v. 284; p. 866.
- Liquid-fuel burner. W. A., W. A., Jr., and J. A. Doble. No. 1,386,994; Aug. 9; v. 289; p. 277.
- Liquid-fuel burner. J. A. Doble. No. 1,399,939; Dec. 13.
- Liquid-fuel burner. D. E. Erickson. No. 1,381,459; June 14; v. 287; p. 267.
- Liquid-fuel burner. J. Good. No. 1,366,787; Jan. 25; v. 282; p. 661.
- Liquid-fuel burner. J. Good. No. 1,379,180; May 24; v. 286; p. 716.
- Liquid-fuel burner. C. C. Hansen. No. 1,377,479; May 10; v. 286; p. 267.
- Liquid-fuel burner. C. Hosek. No. 1,392,072; Sept. 27; v. 290; p. 723.
- Liquid-fuel burner. E. B. Kramer. No. 1,373,511; Apr. 5; v. 285; p. 26.
- Liquid-fuel burner. A. C. Kreitzer. No. 1,382,655; June 28; v. 287; p. 608.
- Liquid-fuel burner. J. D. Lord. No. 1,395,846; Nov. 1.
- Liquid-fuel burner. R. G. Marx. No. 1,378,480; May 17; v. 286; p. 510.
- Liquid-fuel burner. H. W. Parrish. No. 1,394,576; Oct. 25.
- Liquid-fuel burner. R. Schawrow. No. 1,384,781; July 19; v. 288; p. 446.
- Liquid-fuel burner. C. W. Springston. No. 1,400,504; Dec. 13.
- Liquid-fuel burner. A. C. Storck. No. 1,391,022; Sept. 20; v. 290; p. 448.
- Liquid-fuel burner. A. O. Vestine. No. 1,397,389; Nov. 15.
- Liquid-fuel burner. C. P. Wagner and G. C. Wiemer. No. 1,366,980; Feb. 1; v. 283; p. 20.
- Liquid-fuel burner. D. Wright. No. 1,389,412; Aug. 30; v. 289; p. 919.
- Liquid-fuel burners, Regulating apparatus for. C. D. Stewart. No. 1,400,636; Dec. 20.
- Liquid-fuel burners, Safety device for. W. K. Bassford. No. 1,367,581; Feb. 8; v. 283; p. 197.
- License-bracket. A. W. Gabel. No. 1,387,846; Aug. 16; v. 289; p. 498.
- Liquid-fuel-burning furnace. M. A. Fesler. No. 1,376,010; Apr. 26; v. 285; p. 642.
- Liquid-fuel-control system. S. G. Down. No. 1,375,492; Apr. 19; v. 285; p. 511.
- Liquid-fuel-control system. S. G. Down. No. 1,400,667; Dec. 20.
- Liquid-fuel feed. E. B. Blakely. No. 1,368,475; Feb. 15; v. 283; p. 417.
- Liquid-fuel-feed regulator. F. R. Higley. No. 1,371,027; Mar. 8; v. 284; p. 287.
- Liquid-fuel-feeding device. T. T. Gaff. No. 1,373,498; Apr. 5; v. 285; p. 23.
- Liquid fuel, Feeding device for. R. C. Huff. No. 1,399,964; Dec. 13.
- Liquid-fuel internal-combustion engine. P. O. Rowlands. No. 1,381,434; June 14; v. 287; p. 263.
- Liquid fuel into a compressed combustible mixture, Means for converting. P. D. Hibner. No. 1,388,430; Aug. 23; v. 289; p. 671.
- Liquid fuel, Means for atomizing and igniting. A. Doble. No. 1,399,010; Dec. 6.
- Liquid fuel or other combustible liquids, Tank or receptacle for holding. S. E. Neal. No. 1,364,786; Jan. 4; v. 282; p. 142.
- Liquid-fuel tanks, Filling apparatus for. F. Evans and J. Corcos. No. 1,381,864; June 14; v. 287; p. 344.
- Liquid-fuel-supply-tank apparatus, Indicating and recording. E. S. Matthews. No. 1,400,895; Dec. 20.
- Liquid-fuel vaporizer. G. P. Eustis. No. 1,398,370; Nov. 29.
- Liquid-gage. E. V. Boiler. No. 1,375,274; Apr. 19; v. 285; p. 469.
- Liquid-gage. R. T. Newton. No. 1,382,532; June 21; v. 287; p. 530.
- Liquid-gage. J. Shephard. No. 1,383,866; July 5; v. 288; p. 126.
- Liquid gage and indicator. J. W. Miller. No. 1,381,212; June 14; v. 287; p. 222.
- Liquid-gages, Circuit-controller for. J. G. Blaisdell. No. 1,389,485; Aug. 30; v. 289; p. 934.
- Liquid glass for polished surfaces. A. T. Quattlander. No. 1,376,038; Apr. 26; v. 285; p. 647.
- Liquid heating or cooling apparatus. A. Jensen. No. 1,380,967; June 7; v. 287; p. 123.
- Liquid-heaters, Electrically-heated. C. H. Lauth. No. 1,398,903; Nov. 29.
- Liquid-level gage. C. E. Cox. No. 1,375,731; Apr. 19; v. 285; p. 442.
- Liquid-level gage. C. E. Cox. No. 1,375,732; Apr. 19; v. 285; p. 442.
- Liquid-level gage. C. E. Cox. No. 1,378,327; May 17; v. 286; p. 481.
- Liquid-level gage. M. O. Lundin. No. 1,394,031; Oct. 18.
- Liquid-level gage. L. De Vriendt. No. 1,378,768; May 17; v. 286; p. 566.
- Liquid-level indicator. C. E. Cox. No. 1,381,285; June 14; v. 287; p. 235.
- Liquid-level indicator. C. E. Cox. No. 1,397,267; Nov. 15.
- Liquid-measuring device. T. L. Herbert and M. W. Askin. No. 1,379,763; May 31; v. 286; p. 900.
- Liquid-measuring device. W. H. Haner. No. 1,366,656; Jan. 25; v. 282; p. 635.
- Liquid-meter. H. C. Alger. No. 1,393,931; Oct. 18.
- Liquid-meter. S. B. Mott. No. 1,372,768; Mar. 29; v. 284; p. 783.
- Liquid, Method of and apparatus for treating. C. P. Landreth. No. 1,378,120; May 17; v. 286; p. 442.
- Liquid-mixing device. J. W. Liska. No. 1,385,179; July 19; v. 288; p. 529.
- Liquid mixtures, Process and apparatus for refining. S. F. Alden and H. C. Eddy. No. 1,394,462; Oct. 18.



*Alphabetical list of inventions—Continued.*

- Liquid, Non-flammable volatile. A. Henning. No. 1,386,497; Aug. 2; v. 289; p. 103.
- Liquid, Non-inflammable volatile. A. Henning. No. 1,393,124; Oct. 11.
- Liquid or gaseous fuel burning furnace. O. L. M. Hoover. No. 1,370,446; Mar. 1; v. 284; p. 131.
- Liquid or semiliquid materials, Apparatus for use in preparing. L. A. Wehle. No. 1,395,753; Nov. 1.
- Liquid-projecting device. H. E. Tunnell. No. 1,397,023; Nov. 15.
- Liquid separating, Apparatus for. M. G. Farrar. No. 1,371,613; Mar. 15; v. 284; p. 464.
- Liquid service-gage. R. E. Bruckner. No. 1,378,440; May 17; v. 286; p. 502.
- Liquid, Spray-nozzle and distributing. L. H. Parker and C. H. Landon. No. 1,380,834; June 7; v. 287; p. 98.
- Liquid straining or filtering apparatus, Valve mechanism for. P. J. Darlington. No. 1,389,939; Sept. 6; v. 290; p. 77.
- Liquid, Supply-cock for the delivery of measured quantities of. E. Ravaz and A. Pillon. No. 1,401,642; Dec. 27.
- Liquid-supply system. C. H. Finley. No. 1,391,676; Sept. 27; v. 290; p. 654.
- Liquid-supply system. F. V. Risinger. No. 1,396,061; Nov. 8.
- Liquid-supply-tank gage, Pneumatic. P. S. Tice. No. 1,392,538; Oct. 4.
- Liquid-supplying apparatus. M. Parnes. No. 1,395,516; Nov. 1.
- Liquids and the like, Drying. P. Müller. No. 1,364,403; Jan. 4; v. 282; p. 69.
- Liquids, Apparatus for elevating. G. F. Bihn and A. Jones. No. 1,373,220; Mar. 29; v. 284; p. 874.
- Liquids, Apparatus for evaporating. W. L. De Baufre. No. 1,390,676; Sept. 13; v. 290; p. 317.
- Liquids, Apparatus for heating. L. G. Abogado. No. 1,382,156; June 21; v. 287; p. 458.
- Liquids, Apparatus for heating. H. Junkers. No. 1,367,146; Feb. 1; v. 283; p. 53.
- Liquids, Apparatus for heating and cooling. C. W. Desobry. No. 1,373,953; Apr. 5; v. 285; p. 112.
- Liquids, Apparatus for raising the temperature of. O. Paré. No. 1,372,901; Mar. 29; v. 284; p. 811.
- Liquids, Apparatus for sterilizing. L. G. Abogado. No. 1,382,158; June 21; v. 287; p. 458.
- Liquids, Apparatus for sterilization or pasteurization of. A. Müllertz. No. 1,396,520; Nov. 8.
- Liquids, Apparatus for transferring. S. T. Adair and H. C. Fyans. No. 1,386,301; Aug. 2; v. 289; p. 67.
- Liquids, Apparatus for treating. F. N. Beyer and J. H. Lounge. No. 1,378,314; May 17; v. 286; p. 479.
- Liquids, Apparatus for visibly vending. W. D. McKellar. No. 1,377,085; May 3; v. 286; p. 135.
- Liquids, Appliance for delivering effervescent. A. J. L. Eckersley. No. 1,370,796; Mar. 8; v. 284; p. 243.
- Liquids by ultra-violet rays, Apparatus for treating. J. C. Pole. No. 1,367,090; Feb. 1; v. 283; p. 41.
- Liquids, Can for. H. B. Lindsay. No. 1,374,932; Apr. 19; v. 285; p. 403.
- Liquids, Container for volatile. M. C. Whitaker. No. 1,400,193; Dec. 13.
- Liquids, Device for cooling. J. H. Goss. No. 1,382,638; June 28; v. 287; p. 604.
- Liquids, Device for indicating the density of. I. P. Parkhurst and R. O. Neal. No. 1,368,524; Feb. 15; v. 283; p. 426.
- Liquids, Device for mixing. H. Meredith-Jones. No. 1,380,970; June 7; v. 287; p. 124.
- Liquids, Dispensing-measure for. M. W. Jones. No. 1,383,122; June 28; v. 287; p. 696.
- Liquids, Distilling and purifying apparatus for volatile. H. A. Hills. No. 1,372,880; Mar. 29; v. 284; p. 806.
- Liquids, Electrical apparatus for heating. H. C. Sanders. No. 1,396,597; Nov. 8.
- Liquors, Filtration of sugar. G. W. S. Simpson and R. F. Lyle. No. 1,401,199; Dec. 27.
- Liquors from spaces of lower pressure to spaces of higher pressure, Method and apparatus for transferring. L. Dunajeff. No. 1,367,308; Feb. 1; v. 283; p. 84.
- Liquors from the carbonization of wood, Treatment of pyroligneous. E. A. Barbet. No. 1,371,461; Mar. 15; v. 284; p. 435.
- Liquors, Heating. L. G. Abogado. No. 1,382,157; June 21; v. 287; p. 458.
- Liquors, Homogenizer for cream and other. O. P. Jensen and A. P. Andersen. No. 1,374,742; Apr. 12; v. 285; p. 305.
- Liquors, Increasing the specific gravity and flash-point of. L. W. Bates. No. 1,390,233; Sept. 6; v. 290; p. 135.
- Liquors, Lowering the viscosity of. L. W. Bates. No. 1,382,456; June 21; v. 287; p. 516.
- Liquors, Measure for dispensing. F. B. Eilers. No. 1,401,897; Dec. 27.
- Liquors, Method and apparatus for treating. A. Jensen. No. 1,396,632; Nov. 8.
- Liquors of high organic content and product of such process, Destructively decomposing. A. H. White. No. 1,374,889; Apr. 12; v. 285; p. 333.
- Liquors, Paper receptacle for. E. W. Labombarde. No. 1,365,250; Jan. 11; v. 282; p. 276.
- Liquors, Phial for conservation of medicinal. L. Becarl. No. 1,382,163; June 21; v. 287; p. 459.
- Liquors, Purification of sewage and analogous. W. Jones. (Reissue.) No. 15,140; July 5; v. 288; p. 161.
- Liquors, Raising the specific gravity and flash-points of. L. W. Bates. No. 1,390,229; Sept. 6; v. 290; p. 134.
- Liquors, Removing the tar from pyroligneous. E. A. Barbet. No. 1,371,460; Mar. 15; v. 284; p. 434.
- Liquors, Sterilizing. L. G. Abogado. No. 1,382,159; June 21; v. 287; p. 458.
- Liquors, Treating. G. Sinclair. No. 1,397,550; Nov. 22.
- Liquors used in industrial chemical processes, Treating. F. A. Eustis. No. 1,397,094; Nov. 15.
- Liquor, Producing nitrating. I. Kitsee. No. 1,380,392; June 7; v. 287; p. 13.
- Liquor, Treatment of leach. C. R. Hayward, H. M. Schleicher, and F. O. Stillman. No. 1,370,646; Mar. 8; v. 284; p. 215.
- Liquors by froth flotation, Purifying. F. B. Jones and E. Bury. No. 1,388,868; Aug. 30; v. 289; p. 811.
- Liquors, Recovering the solids of waste pulp. W. H. Dickerson. No. 1,396,028; Nov. 8.
- Liquors, Separating the potassium content of potassium-containing. H. P. Bassett. No. 1,380,035; May 31; v. 286; p. 952.
- Liquors, Treating waste denitration. H. P. Bassett. No. 1,390,329; Sept. 13; v. 290; p. 246.
- List-rack. I. A. Carr. No. 1,390,091; Sept. 6; v. 290; p. 108.
- Listing device. C. A. Soans. No. 1,394,231; Oct. 18.
- Litharge and red lead, Making. H. M. Gabel. No. 1,382,282; June 21; v. 287; p. 482.
- Lithographic metal sheets, Apparatus for drying. T. L. Taliaferro. No. 1,399,415; Dec. 6.
- Lithographic presses, Dampening-regulator for. F. J. Dobbertin. No. 1,364,257; Jan. 4; v. 282; p. 41.
- Lithography, Art. E. Aurich and F. Wolf. No. 1,367,521; Feb. 1; v. 283; p. 127.
- Lithography, Continuous printing by. C. P. Stirling. No. 1,398,808; Nov. 29.
- Lithopone, Manufacturing. C. R. Kuzell. No. 1,399,500; Dec. 6.
- Litter-carrier. A. C. Perkins. No. 1,392,594; Oct. 4.
- Litter-collector. A. L. Bishman. No. 1,400,516; Dec. 20.
- Load, Apparatus for raising or lowering a. R. Förster. No. 1,379,546; May 24; v. 286; p. 786.
- Load brake device. G. A. Boyden. No. 1,400,656; Dec. 20.
- Load brake equipment. C. C. Farmer. No. 1,400,595; Dec. 20.
- Load-lifting devices, Braking means for. F. L. Gormley. No. 1,383,200; June 28; v. 287; p. 711.
- Load-lifting devices, Speed-controlling mechanism for. F. L. Gormley. No. 1,383,199; June 28; v. 287; p. 711.
- Loader. A. N. Anderson. No. 1,381,053; June 7; v. 287; p. 140.
- Loader. O. L. Gilliland. No. 1,397,956; Nov. 22.
- Loader, Manure-. E. Captske. No. 1,372,275; Mar. 22; v. 284; p. 648.
- Loader, Portable-. DeW. Nelson. No. 1,381,585; June 14; v. 287; p. 291.
- Loading and unloading apparatus. F. Guasch. No. 1,365,983; Jan. 18; v. 282; p. 458.
- Loading and unloading device. J. Dyer. No. 1,386,053; Aug. 2; v. 289; p. 19.
- Loading and unloading device. H. W. Thorn. No. 1,395,749; Nov. 1.
- Loading and unloading device, Vehicle. H. C. Stone. No. 1,378,631; May 17; v. 286; p. 589.
- Loading and unloading merchandise, Sling for. L. T. Lee. No. 1,365,511; Jan. 11; v. 282; p. 326.
- Loading apparatus. E. B. Allen. No. 1,381,780; June 14; v. 287; p. 328.
- Loading apparatus. A. C. Myers. No. 1,365,120; Jan. 11; v. 282; p. 251.
- Loading apparatus. J. M. Vest. No. 1,389,021; Aug. 30; v. 289; p. 842.
- Loading apparatus, Portable. A. Grandjean. No. 1,393,214; Oct. 11.
- Loading cars, Apparatus for. J. Mayne. No. 1,366,201; Jan. 18; v. 282; p. 500.
- Loading device. V. H. Brown. No. 1,385,110; July 19; v. 288; p. 515.
- Loading device. A. E. Culley. No. 1,379,746; May 31; v. 286; p. 897.
- Loading device. L. Eger. No. 1,378,014; May 17; v. 286; p. 421.
- Loading device. J. Plein. No. 1,391,852; Sept. 27; v. 290; p. 690.
- Loading device. E. Prairie. No. 1,388,601; Aug. 23; v. 289; p. 703.
- Loading device. R. R. Schutt. No. 1,389,995; Sept. 6; v. 290; p. 88.
- Loading device. J. H. Schwamb. No. 1,369,844; Mar. 1; v. 284; p. 17.
- Loading device, Portable. C. J. Allen. No. 1,378,576; May 17; v. 286; p. 528.
- Loading-machine. N. L. Barger and J. P. Donaldson. (Reissue.) No. 15,234; Nov. 29.
- Loading-machine. G. R. Bennett. No. 1,383,593; July 5; v. 288; p. 69.
- Loading-machine. G. R. Bennett. No. 1,383,594; July 5; v. 288; p. 69.



- Loading-machine. F. Billings and R. P. Greenleaf. No. 1,377,303; May 10; v. 286; p. 233.  
 Loading-machine. J. E. Dowden. No. 1,383,910; July 5; v. 288; p. 135.  
 Loading-machine. N. A. Newdick. No. 1,370,904; Mar. 8; v. 284; p. 263.  
 Loading-machine. W. Whaley. No. 1,379,427; May 24; v. 286; p. 763.  
 Loading machine, Daylight tank-. C. E. Jechort. No. 1,387,403; Aug. 9; v. 289; p. 358.  
 Loading machine, Dirt-. J. E. Long. No. 1,380,488; June 7; v. 287; p. 31.  
 Loading machine Material-. A. C. Dennis. No. 1,398,365; Nov. 29.  
 Loaves and like products, Dough-rolling apparatus for making long. H. Rolin. No. 1,396,881; Nov. 15.  
 Localizer. C. C. Culver. No. 1,393,431; Oct. 11.  
 Lock. See—  
     Air-brake lock. Key-lever spring-lock.  
     Auto-lock. Keyless lock.  
     Auto-door lock. Knob-lock.  
     Auto-tire lock. Lamp-lock.  
     Automatic grease-plug lock. Latch-lock.  
     Automobile-lock. Lever-lock.  
     Automobile-engine lock. Locomotive safety throttle-lock.  
     Automobile-gasoline-lock. Mail-bag lock.  
     Automobile-gear-shift lock. Molasses-gate lock.  
     Automobile-keyless lock. Motor-meter lock.  
     Automobile-radiator-cap lock. Motor-vehicle lock.  
     Automobile-steering-lock. Navigable-vessel lock.  
     Automobile-steering-post lock. Nut-lock.  
     Automobile-tire lock. Paddle-lock.  
     Automobile-wheel lock. Padlock.  
     Auxiliary lock. Pedal-lock.  
     Bag-lock. Pedal and control-lever lock.  
     Bag-tie seal-lock. Permutation-lock.  
     Battery switch-lock. Pneumatic lock.  
     Bolt-lock. Pocket-lock.  
     Bolt and nut lock. Push-lock.  
     Calk-lock. Radiator-cap lock.  
     Carbureter-lock. Railway-joint lock.  
     Check-lock. Recording-lock.  
     Clutch-lock. Recording time-lock.  
     Clutch-pedal lock. Rim-lock.  
     Coin-controlled lock. Rudder-lock.  
     Coin-controlled locker-lock. Safety-lock.  
     Combination-lock. Safety automobile-lock.  
     Combination rotary-lock. Safety switch-lock.  
     Cover-lock. Sash-lock.  
     Crib-lock. Seal-lock.  
     Cylinder-lock. Sliding-door lock.  
     Demountable-rim lock. Spike-lock.  
     Dial-lock. Spindle-whirl lock.  
     Door-lock. Stake-lock.  
     Double tubular lock. Steering-head lock.  
     Electric door-lock. Steering-wheel lock.  
     Electric safety-lock. Suitcase-lock.  
     Electric-switch lock. Switch-lock.  
     End-gate lock. Switch-stand lock.  
     Explosive lock. Thimble-lock.  
     Faucet-lock. Time-lock.  
     Freight-car-door lock. Time combination-lock.  
     Galley-lock. Tire-lock.  
     Galley end lock. Tire carrier and lock.  
     Gas-tank safety-lock. Transmission-lock.  
     Gasoline-flow-line lock. Transmission-cover lock.  
     Gasoline-valve lock. Valve-lock.  
     Gear-shift lock. Valve-stem lock.  
     Gear-shift and ignition lock. Vault-lock.  
     Gear-shift-lever lock. Vehicle-lock.  
     Grate-block lock. Vehicle reverse-lock.  
     Handle-lock. Vehicle-wheel lock.  
     Joint-lock. Ventilating-sash lock.  
     Key-lock. Wedge-lock.  
     Key and bolt lock. Wheel-lock.  
     Lock. C. E. Anderson. No. 1,389,339; Aug. 30; v. 289; p. 905.  
     Lock. A. Andreani. No. 1,379,844; May 31; v. 286; p. 916.  
     Lock. A. Ashkar. No. 1,401,030; Dec. 20.  
     Lock. M. S. Beaver. No. 1,396,550; Nov. 8.  
     Lock. F. E. Best. No. 1,384,022; July 5; v. 288; p. 158.  
     Lock. A. Block. No. 1,377,456; May 10; v. 286; p. 263.  
     Lock. A. Block. No. 1,377,457; May 10; v. 286; p. 263.  
     Lock. A. Block. No. 1,393,006; Oct. 11.  
     Lock. A. C. O. Bock. No. 1,377,658; May 10; v. 286; p. 300.  
     Lock. A. C. O. Bock. No. 1,381,395; June 14; v. 287; p. 256.  
     Lock. V. R. Bottone. No. 1,384,590; July 12; v. 288; p. 326.  
     Lock. L. W. Brodowski. No. 1,364,069; Jan. 4; v. 282; p. 4.  
     Lock. T. Cannon, Jr. No. 1,373,301; Mar. 29; v. 284; p. 890.  
     Lock. R. Carlson. No. 1,372,481; Mar. 22; v. 284; p. 687.  
     Lock. E. A. Christoph. No. 1,384,179; July 12; v. 288; p. 240.  
     Lock. J. P. Cleal and R. E. Awde. No. 1,396,163; Nov. 8.  
     Lock. A. Conte. No. 1,376,256; Apr. 26; v. 285; p. 689.  
     Lock. T. F. Dickie. No. 1,364,733; Jan. 4; v. 282; p. 132.  
     Lock. F. J. Dowling. No. 1,387,245; Aug. 9; v. 289; p. 325.  
     Lock. L. Dumanski. No. 1,364,736; Jan. 4; v. 282; p. 133.  
     Lock. J. Evans. No. 1,376,141; Apr. 26; v. 285; p. 667.  
     Lock. M. Forlander. No. 1,398,636; Nov. 29.  
     Lock. J. P. Frommer. No. 1,366,909; Feb. 1; v. 283; p. 6.  
     Lock. D. S. Geiser. No. 1,368,713; Feb. 15; v. 283; p. 463.  
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     Lock. G. S. R. Kampmann. No. 1,401,910; Dec. 27.  
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- Locomotive, Geared. W. E. Woodard. No. 1,376,061; Apr. 26; v. 285; p. 652.
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- Locomotive-journal lubricator. J. G. B. Proudfoot. No. 1,400,237; Dec. 13.
- Locomotive, Mining. W. W. Sloane. No. 1,389,076; Aug. 30; v. 289; p. 853.
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- Locomotive, Steam-turbine-driven. H. Boltshauser. No. 1,401,308; Dec. 27.
- Locomotive, Steam-turbine-driven. C. Kohler. No. 1,396,220; Nov. 8.
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- Locomotive-tender underframe. C. T. Westlake. No. 1,378,204; May 17; v. 286; p. 458.
- Locomotive-terminal for railway-systems. S. Otis. No. 1,387,863; Aug. 16; v. 289; p. 502.
- Locomotive washout and refilling apparatus. J. O. Nelkirk. No. 1,396,139; Nov. 8.
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- Locomotives, Burning pulverized fuel in. H. R. Barnhurst, H. R. Collins, and H. G. Barnhurst. No. 1,395,079; Oct. 25.
- Locomotives, Classification-signal for. S. B. Yates. No. 1,395,326; Nov. 1.
- Locomotives, Control of booster-motors for. H. L. Ingersoll. No. 1,388,647; Aug. 23; v. 289; p. 712.
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- Locomotives, Driving mechanism for. S. Pickering. No. 1,386,528; Aug. 2; v. 289; p. 110.
- Locomotives, Fire-door for. W. White. No. 1,391,926; Sept. 27; v. 290; p. 705.
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- Locomotives, Lateral-wear reducer for. T. Paxton. No. 1,372,774; Mar. 29; v. 284; p. 784.
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- Locomotives, Quill-drive for electric. G. C. Abbe. No. 1,401,230; Dec. 27.
- Locomotives, Signal-lantern for. A. C. Hinckley. No. 1,384,387; July 12; v. 288; p. 283.
- Locomotives, Smoke-consumer for. B. H. Thomas. No. 1,370,855; Mar. 8; v. 284; p. 254.
- Locomotives, Steam-supply means for cylinders of railway-. S. H. Lewis. No. 1,395,648; Nov. 1.
- Locomotives, Steam-supply means for cylinders of railway-. S. H. Lewis. No. 1,399,131; Dec. 6.
- Locomotives, Surface condensing plant for steam-. C. Kohler. No. 1,388,954; Aug. 30; v. 289; p. 828.
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- Log-peeler. J. N. Larson. No. 1,379,768; May 31; v. 286; p. 901.
- Log safety-hook. M. H. Giberson. No. 1,373,235; Mar. 29; v. 284; p. 877.
- Logs and like articles, Machine for removing bark, bast, and similar material from. G. Hellström. No. 1,373,243; Mar. 29; v. 284; p. 879.
- Logs, Apparatus for raising sunken. R. A. Ranger. No. 1,381,333; June 14; v. 287; p. 244.
- Logs, Apparatus for storing and handling. W. A. Whitcomb. No. 1,380,280; May 31; v. 286; p. 998.
- Logs, Sawing taper. A. L. Haley. No. 1,393,529; Oct. 14.
- Logs, Sectional cable for handling. W. H. Peters. No. 1,372,368; Mar. 22; v. 284; p. 665.
- Logging apparatus. D. Lawson. No. 1,394,745; Oct. 25.
- Logging-block. F. H. Lamb. No. 1,367,058; Feb. 1; v. 283; p. 35.
- Logging-carriage. J. A. Pierson. No. 1,384,848; July 19; v. 288; p. 460.
- Logging-engine. C. M. Stevenson. No. 1,389,324; Aug. 30; v. 289; p. 902.
- Logging-engine, Two-speed direct-drive. A. C. Sullivan and J. W. Gill. No. 1,394,451; Oct. 18.
- Logging-hook. D. H. Cox. No. 1,376,258; Apr. 26; v. 285; p. 689.
- Logging-hook. J. Tors. No. 1,371,452; Mar. 15; v. 284; p. 433.
- Logging system. R. Crook. No. 1,365,155; Jan. 11; v. 282; p. 258.
- Loin-holder and the like. G. R. Keene. No. 1,367,398; Feb. 1; v. 283; p. 103.
- Lookout device. A. O. Tate. No. 1,369,058; Feb. 22; v. 283; p. 569.
- Loom. J. C. Brooks. No. 1,368,691; Feb. 15; v. 283; p. 459.
- Loom. J. C. Brooks. No. 1,377,390; May 10; v. 286; p. 250.
- Loom. J. C. Brooks. No. 1,386,550; Aug. 2; v. 289; p. 114.
- Loom. J. E. Duelks. No. 1,388,808; Aug. 23; v. 289; p. 744.
- Loom. P. G. Gielen. (Reissue.) No. 15,026; Jan. 18; v. 282; p. 527.
- Loom. A. Le Blanc. No. 1,379,194; May 24; v. 286; p. 719.
- Loom. H. I. Morris. No. 1,369,531; Feb. 22; v. 283; p. 660.
- Loom. E. D. Roy. No. 1,400,318; Dec. 13.
- Loom. H. M. White. No. 1,371,062; Mar. 8; v. 284; p. 293.
- Loom attachment. C. E. Chambers. No. 1,395,904; Nov. 1.
- Loom attachment. W. Curran. No. 1,372,605; Mar. 22; v. 284; p. 710.
- Loom attachment. W. H. Dumas. No. 1,392,126; Sept. 27; v. 290; p. 745.
- Loom attachment. J. A. Weithaase. No. 1,388,537; Aug. 23; v. 289; p. 691.
- Loom, Automatic filling-replenishing. W. Tempest. No. 1,372,106; Mar. 22; v. 284; p. 615.
- Loom, Automatic weft-replenishing. L. Aitken. No. 1,375,885; Apr. 26; v. 285; p. 618.
- Loom bobbin-separator, Filling-replenishing. M. L. Stone. No. 1,369,485; Feb. 22; v. 283; p. 651.
- Loom-check. J. Cartier and C. Delcourt. No. 1,364,710; Jan. 4; v. 282; p. 128.
- Loom-check. J. Cartier and C. Delcourt. (Reissue.) No. 15,081; Apr. 12; v. 285; p. 335.
- Loom-dobbies, Lever for. W. H. Needham and N. J. Ville. No. 1,369,700; Feb. 22; v. 283; p. 694.
- Loom, Dobby-. F. G. Cobb. No. 1,383,076; June 28; v. 287; p. 687.
- Loom-dobby. F. Leeming. No. 1,371,564; Mar. 15; v. 284; p. 456.
- Loom, Feeler-. J. Northrop. No. 1,372,082; Mar. 22; v. 284; p. 610.
- Loom, Feeler-. J. Northrop. No. 1,372,083; Mar. 22; v. 284; p. 610.
- Loom, Filling-replenishing. M. L. Stone. No. 1,369,486; Feb. 22; v. 283; p. 652.
- Loom for weaving Axminster carpets and rugs. C. H. Collins. No. 1,400,941; Dec. 20.



## Alphabetical list of inventions—Continued.

- Loom-lays, Means for attaching picker-stick checks to. J. B. Fennell and E. B. Flowers. No. 1,386,169; Aug. 2; v. 289; p. 41.
- Loom, Needle. S. Kendrick. No. 1,391,958; Sept. 27; v. 290; p. 711.
- Loom, Needle. H. R. Parker. No. 1,364,138; Jan. 4; v. 282; p. 17.
- Loom-picker. L. R. Swan. No. 1,387,913; Aug. 16; v. 289; p. 511.
- Loom picker-head. H. M. Ozment. No. 1,369,046; Feb. 22; v. 283; p. 567.
- Loom-pickers, Buffer-check for. H. M. Gusdorf. No. 1,375,841; Apr. 26; v. 285; p. 609.
- Loom-plate and hanger. A. Olevin. No. 1,390,921; Sept. 13; v. 290; p. 366.
- Loom, Replenishing. E. A. and J. V. Cunniff. No. 1,375,036; Apr. 19; v. 285; p. 424.
- Loom-shafts, Friction-reducer for. A. E. Rhoades. No. 1,374,325; Apr. 12; v. 285; p. 224.
- Loom-shuttle. H. W. Hakes. No. 1,380,649; June 7; v. 287; p. 61.
- Loom-shuttle. N. Spenard. (Reissue.) No. 15,087; Apr. 12; v. 285; p. 336.
- Loom-shuttle. T. H. Whalley. No. 1,398,660; Nov. 29.
- Loom shuttle-bobbin. W. Routledge. No. 1,385,952; July 26; v. 288; p. 761.
- Loom-shuttle body and making same. I. S. Franklin. No. 1,372,131; Mar. 22; v. 284; p. 619.
- Loom-shuttles, Yarn-tensioning device for. D. H. Fogle. No. 1,386,773; Aug. 9; v. 289; p. 232.
- Loom-starter, Automatic. J. H. Gossett. No. 1,369,651; Feb. 22; v. 283; p. 684.
- Loom-temple. J. Hamerski. No. 1,364,108; Jan. 4; v. 282; p. 12.
- Loom, Terry-. A. E. Rhoades. No. 1,366,939; Feb. 1; v. 283; p. 12.
- Loom, Weft-replenishing. L. Aitken. No. 1,375,886; Apr. 26; v. 285; p. 618.
- Loom, Weft-replenishing. S. S. Jackson. No. 1,394,175; Oct. 18.
- Loom, Weft-replenishing. E. H. Ryon. No. 1,372,315; Mar. 22; v. 284; p. 655.
- Loom, Weft-replenishing. E. H. Ryon. No. 1,372,316; Mar. 22; v. 284; p. 656.
- Loom, Wire-fence. L. Swank and J. E. Van Deventer. No. 1,380,165; May 31; v. 286; p. 977.
- Loom, Wood-weaving. O. T. Belcher. No. 1,382,816; June 28; v. 287; p. 638.
- Looms and other machines, Handwheel for. A. E. Rhoades. No. 1,380,159; May 31; v. 286; p. 976.
- Looms, Attachment for. E. E. Webb. No. 1,390,943; Sept. 13; v. 290; p. 370.
- Looms, Battery mechanism for automatic filling-replenishing. A. E. Rhoades. No. 1,395,011; Oct. 25.
- Looms, Bobbin-smash preventer for weft-replenishing. T. Haworth. No. 1,381,636; June 14; v. 287; p. 300.
- Looms, Bumper for. O. P. Hargrove. No. 1,383,940; July 5; v. 288; p. 141.
- Looms, Cam-actuated warp-tension-controlling mechanism for. H. W. Youngquist. No. 1,391,927; Sept. 27; v. 290; p. 705.
- Looms, Driving mechanism for. J. H. Stairs. No. 1,375,942; Apr. 26; v. 285; p. 629.
- Looms, Feeding mechanism for weft-replenishing. E. H. Ryon. No. 1,369,474; Feb. 22; v. 283; p. 649.
- Looms, Feeler mechanism for. E. A. and J. V. Cunniff. No. 1,392,817; Oct. 4.
- Looms, Feeler mechanism for. E. A. and J. V. Cunniff. No. 1,392,818; Oct. 4.
- Looms, Feeler mechanism for. A. E. Rhoades. No. 1,393,397; Oct. 11.
- Looms, Feeler mechanism for. A. E. Rhoades. No. 1,396,663; Nov. 8.
- Looms, Feeler mechanism for. I. Snow. No. 1,369,478; Feb. 22; v. 283; p. 650.
- Looms, Feeler mechanism for. I. Snow. No. 1,369,479; Feb. 22; v. 283; p. 650.
- Looms, Feeler mechanism for. I. Snow. No. 1,369,480; Feb. 22; v. 283; p. 650.
- Looms, Feeler mechanism for. I. Snow. No. 1,369,481; Feb. 22; v. 283; p. 651.
- Looms, Feeler mechanism for. I. Snow. No. 1,369,482; Feb. 22; v. 283; p. 651.
- Looms, Feeler mechanism for. I. Snow. No. 1,378,908; May 24; v. 286; p. 665.
- Looms, Feeler mechanism for. I. Snow. No. 1,378,909; May 24; v. 286; p. 665.
- Looms, Feeler mechanism for. I. Snow. No. 1,387,201; Aug. 9; v. 289; p. 316.
- Looms, Feeler mechanism for. I. Snow. No. 1,387,202; Aug. 9; v. 289; p. 316.
- Looms, Feeler mechanism for. I. Snow. No. 1,387,203; Aug. 9; v. 289; p. 317.
- Looms, Feeler mechanism for. I. Snow. No. 1,387,204; Aug. 9; v. 289; p. 317.
- Looms, Feeler mechanism for. I. Snow. No. 1,387,205; Aug. 9; v. 289; p. 317.
- Looms, Feeler mechanism for. I. Snow. No. 1,387,319; Aug. 9; v. 289; p. 341.
- Looms, Feeler mechanism for. I. Snow. No. 1,387,320; Aug. 9; v. 289; p. 341.
- Looms, Feeler mechanism for. I. Snow. No. 1,387,321; Aug. 9; v. 289; p. 341.
- Looms, Feeler mechanism for. I. Snow. No. 1,387,322; Aug. 9; v. 289; p. 341.
- Looms, Feeler mechanism for. I. Snow. No. 1,387,323; Aug. 9; v. 289; p. 342.
- Looms, Feeler mechanism for. I. Snow. No. 1,387,324; Aug. 9; v. 289; p. 342.
- Looms, Feeler mechanism for. I. Snow. No. 1,387,325; Aug. 9; v. 289; p. 342.
- Looms, Feeler mechanism for. I. Snow. No. 1,387,326; Aug. 9; v. 289; p. 342.
- Looms, Feeler mechanism for. I. Snow. No. 1,387,327; Aug. 9; v. 289; p. 343.
- Looms, Feeler mechanism for. I. Snow. No. 1,388,210; Aug. 23; v. 289; p. 626.
- Looms, Feeler mechanism for. I. Snow. No. 1,392,803; Oct. 4.
- Looms, Feeler mechanism for. I. Snow. No. 1,392,804; Oct. 4.
- Looms, Feeler mechanism for. I. Snow. No. 1,392,805; Oct. 4.
- Looms, Feeler mechanism for. I. Snow. No. 1,392,806; Oct. 4.
- Looms, Feeler mechanism for. I. Snow. No. 1,392,807; Oct. 4.
- Looms, Feeler mechanism for. I. Snow. Nos. 1,396,669-72; Nov. 8.
- Looms, Feeler mechanism for. E. S. Stimpson. No. 1,380,938; June 7; v. 287; p. 117.
- Looms, Feeler mechanism for. E. S. Stimpson. No. 1,380,939; June 7; v. 287; p. 118.
- Looms, Feeler mechanism for. M. L. Stone. No. 1,369,484; Feb. 22; v. 283; p. 651.
- Looms, Feeler mechanism for. M. L. Stone. No. 1,369,487; Feb. 22; v. 283; p. 652.
- Looms, Feeler mechanism for. M. L. Stone. No. 1,369,488; Feb. 22; v. 283; p. 652.
- Looms, Feeler mechanism for. M. L. Stone. No. 1,369,489; Feb. 22; v. 283; p. 652.
- Looms, Feeler mechanism for. M. L. Stone. No. 1,369,490; Feb. 22; v. 283; p. 652.
- Looms, Feeler mechanism for. M. L. Stone. No. 1,378,913; May 24; v. 286; p. 666.
- Looms, Feeler mechanism for. M. L. Stone. No. 1,378,914; May 24; v. 286; p. 666.
- Looms, Feeler mechanism for. M. L. Stone. No. 1,378,915; May 24; v. 286; p. 666.
- Looms, Feeler mechanism for. M. L. Stone. No. 1,378,916; May 24; v. 286; p. 667.
- Looms, Feeler mechanism for. M. L. Stone. No. 1,378,917; May 24; v. 286; p. 667.
- Looms, Feeler mechanism for. J. Taranto. No. 1,369,990; Mar. 1; v. 284; p. 45.
- Looms, Feeler motion for. I. Snow. No. 1,369,483; Feb. 22; v. 283; p. 651.
- Looms, Feeler-motion for. I. Snow. No. 1,378,907; May 24; v. 286; p. 665.
- Looms, Filling-catcher for. M. L. Stone. No. 1,383,874; July 5; v. 288; p. 128.
- Looms, Filling-end catcher for. C. E. Nutting. No. 1,394,637; Oct. 25.
- Looms, Filling-end-parting mechanism for. H. E. Stafford. No. 1,372,840; Mar. 29; v. 284; p. 798.
- Looms, Filling or thread holder for. G. C. Haralson and W. E. Turner. No. 1,385,914; July 26; v. 288; p. 753.
- Looms, Filling-severing means for automatic filling-replenishing. A. E. Rhoades. No. 1,395,012; Oct. 25.
- Looms, Filling stop-motion for. H. O. Brown. No. 1,398,713; Nov. 29.
- Looms, Gauge for. J. and I. Dudash. No. 1,392,125; Sept. 27; v. 290; p. 745.
- Looms, &c., Hand-wheel mechanism for. A. E. Rhoades. No. 1,401,098; Dec. 20.
- Looms, Harness-action for. A. B. Simoneau. No. 1,378,732; May 17; v. 286; p. 559.
- Looms, &c., Harness for. E. F. Hathaway. No. 1,399,298; Dec. 6.
- Looms, Let-off mechanism for. W. Scott. No. 1,365,283; Jan. 11; v. 282; p. 283.
- Looms, Motor-drive for. D. C. Leonard. No. 1,379,349; May 24; v. 286; p. 749.
- Looms, Picker-action for. H. B. Simoneau. No. 1,373,028; Mar. 29; v. 284; p. 836.
- Looms, Picker-check for. J. F. Brais. No. 1,366,514; Jan. 25; v. 282; p. 606.
- Looms, Picker-check for. D. D. Jodoin. No. 1,387,404; Aug. 9; v. 289; p. 358.
- Looms, Picker-check means for. L. S. Burbank. No. 1,380,465; June 7; v. 287; p. 27.
- Looms, Picker-staff check for. R. N. Reynolds and B. D. Ballew. No. 1,385,924; July 26; v. 288; p. 755.
- Looms, Picker-stick for. T. C. Lawton. No. 1,372,438; Mar. 22; v. 284; p. 678.
- Looms, Picker-stick protector for. A. E. Willson. No. 1,382,754; June 28; v. 287; p. 726.
- Looms, Pile-cutter for. C. J. del'Marmol. No. 1,368,551; Feb. 15; v. 283; p. 431.
- Looms, Recoil picking mechanism for. G. Crompton, Jr. No. 1,393,758; Oct. 18.
- Looms, Rocker-shaft support for. H. W. Youngquist. No. 1,393,416; Oct. 11.
- Looms, Selvage-trimmer for. H. T. Abbott. No. 1,400,711; Dec. 20.



- Looms, Shuttle-actuating mechanism for. R. H. Smith. No. 1,396,602; Nov. 8.
- Looms, Shuttle and filling unit for wire-. W. S. Southwick. No. 1,373,268; Mar. 29; v. 284; p. 883.
- Looms, Shuttle-box for. C. Lavallo. No. 1,376,949; May 3; v. 286; p. 109.
- Looms, Spring-support for. S. H. Cooke and J. O. Miller. No. 1,393,347; Oct. 11.
- Looms, Stop mechanism for. J. Ouellette. No. 1,394,341; Oct. 18.
- Looms, Stop mechanism for. H. W. Youngquist. No. 1,398,532; Nov. 29.
- Looms, Stop-motion for. J. A. Gagnon. No. 1,369,417; Feb. 22; v. 283; p. 638.
- Looms, Striping mechanism for automatic weft-replenishing. A. E. Rhoades. No. 1,366,940; Feb. 1; v. 283; p. 12.
- Looms, Temple-thread parter for. U. N. Trembley. No. 1,394,652; Oct. 25.
- Looms, Thread-cutter for. L. Jourdain. No. 1,393,539; Oct. 11.
- Looms, Thread-cutting temple for. E. S. Stimpson. No. 1,366,034; Jan. 18; v. 282; p. 468.
- Looms, Transferring mechanism for automatic filling-replenishing. A. E. Rhoades. No. 1,395,010; Oct. 25.
- Looms, Warp stop mechanism for. M. L. Stone. No. 1,388,212; Aug. 23; v. 289; p. 626.
- Looms, Warp stop-motion for. A. S. Cowan. No. 1,394,970; Oct. 25.
- Looms, Warp stop-motion for. D. Osgood. No. 1,366,827; Jan. 25; v. 282; p. 669.
- Looms, Warp stop motion for. D. Osgood. No. 1,366,828; Jan. 25; v. 282; p. 666.
- Looms, Warp stop-motion for. A. E. Rhoades. No. 1,385,711; July 26; v. 288; p. 713.
- Looms, Warp stop-motion for. E. L. Tinkham. No. 1,385,734; July 26; v. 288; p. 718.
- Looms, Warp-tension-controlling mechanism for. H. W. Youngquist. No. 1,391,928; Sept. 27; v. 290; p. 705.
- Looms, Weft feeler-tip for. E. S. Stimpson. No. 1,380,940; June 7; v. 287; p. 118.
- Looms, Weft-replenishing mechanism for. H. W. Youngquist. No. 1,396,154; Nov. 8.
- Looms, Wind-up mechanism for. J. Northrop. No. 1,383,478; July 5; v. 288; p. 46.
- Loose-leaf binder. G. P. Baumann and R. A. Fink. No. 1,375,667; Apr. 26; v. 285; p. 578.
- Loose-leaf binder. A. Rosenberg. No. 1,371,646; Mar. 15; v. 284; p. 471.
- Loose-leaf binder. G. Schubel. No. 1,364,526; Jan. 4; v. 282; p. 93.
- Loose-leaf binder. P. O. Unger. No. 1,371,583; Mar. 15; v. 284; p. 459.
- Loose-leaf holder. J. E. Stinger. No. 1,370,852; Mar. 8; v. 284; p. 254.
- Loose-sheave-spool rotary table. L. Larsen. No. 1,366,571; Jan. 25; v. 282; p. 618.
- Loose-sheet device. G. P. Wigginton. No. 1,395,754; Nov. 1.
- Loose-tread traction-wheel. J. V. Priest. No. 1,378,131; May 17; v. 286; p. 444.
- Loss-preventing device. J. Costello. No. 1,387,358; Aug. 9; v. 289; p. 349.
- Loss-preventing device. A. White. No. 1,378,747; May 17; v. 286; p. 562.
- Louver or slat window. L. Lane. No. 1,380,980; June 7; v. 287; p. 126.
- Low-liquid alarm. W. Grah. No. 1,373,420; Apr. 5; v. 285; p. 8.
- Low-liquid-level alarm. W. Grah. No. 1,371,366; Mar. 15; v. 284; p. 415.
- Low-liquid-level alarm, Audible. W. Grah. No. 1,371,365; Mar. 15; v. 284; p. 415.
- Low-pressure-steam signal. F. A. Kimble and W. S. Fox. No. 1,365,786; Jan. 18; v. 282; p. 420.
- Low-quad mold. M. C. Indahl. No. 1,372,074; Mar. 22; v. 284; p. 609.
- Low-voltage release-switch. E. H. Jacobs. No. 1,380,386; June 7; v. 287; p. 12.
- Lowering jack, Self-. J. C. Kopf. Nos. 1,397,868-9; Nov. 22.
- Lowering jack, Self-. F. H. Schwerin. No. 1,397,882; Nov. 22.
- Lubricant. C. S. Willey. No. 1,395,073; Oct. 25.
- Lubricant-container, Flexible. J. F. MacIndoe. No. 1,379,197; May 24; v. 286; p. 720.
- Lubricant-dispensing container. W. H. Cook. No. 1,387,356; Aug. 9; v. 289; p. 349.
- Lubricant-distributor for mechanical installation, Economical. E. J. A. Schultz. No. 1,379,219; May 24; v. 286; p. 724.
- Lubricant-testing machine. V. J. Van Horn. No. 1,386,214; Aug. 2; v. 289; p. 51.
- Lubricated stuffing-box. E. E. Osborne. No. 1,387,301; Aug. 9; v. 289; p. 337.
- Lubricating apparatus. C. H. Buettner. No. 1,379,331; May 24; v. 286; p. 746.
- Lubricating apparatus. W. Fahey. No. 1,385,531; July 26; v. 288; p. 676.
- Lubricating apparatus, Connector for. R. P. Jacques. No. 1,383,306; July 5; v. 288; p. 10.
- Lubricating attachment. W. H. Edmunds. No. 1,371,151; Mar. 8; v. 284; p. 310.
- Lubricating-bolt. H. M. Naugle. No. 1,384,271; July 12; v. 288; p. 259.
- Lubricating-bolt. No. 1,389,375; Aug. 30; v. 289; p. 912.
- Lubricating-can. G. Lidseen. No. 1,401,160; Dec. 27.
- Lubricating composition. W. H. Wood. No. 1,398,759; Nov. 29.
- Lubricating compound. R. McLeod. No. 1,387,437; Aug. 9; v. 289; p. 365.
- Lubricating cups or nipples, Dust-cap for. B. H. Skelly. No. 1,398,577; Nov. 29.
- Lubricating-cup, Refillable. H. H. Williams. No. 1,389,405; Aug. 30; v. 289; p. 918.
- Lubricating-cups, Protector for. W. B. Barry, Jr. No. 1,379,609; May 31; v. 286; p. 872.
- Lubricating device. C. A. Bacon. No. 1,366,860; Jan. 25; v. 282; p. 675.
- Lubricating device. C. G. Butler. No. 1,366,903; Feb. 1; v. 283; p. 4.
- Lubricating device. C. Calhoun. No. 1,395,174; Oct. 25.
- Lubricating device. C. G. Cunningham. No. 1,386,604; Aug. 9; v. 289; p. 197.
- Lubricating device. D. F. Fesler. No. 1,388,939; Aug. 30; v. 289; p. 825.
- Lubricating device. L. Jorden. No. 1,383,212; June 28; v. 287; p. 714.
- Lubricating device. B. L. Madden. No. 1,384,536; July 12; v. 288; p. 314.
- Lubricating device. B. S. Nelson. No. 1,377,023; May 3; v. 286; p. 123.
- Lubricating device. C. T. Pfueger. No. 1,384,775; July 19; v. 288; p. 445.
- Lubricating device. W. B. Rulon. No. 1,387,806; Aug. 16; v. 289; p. 490.
- Lubricating device. H. C. Shamblin and E. E. McKay. No. 1,372,253; Mar. 22; v. 284; p. 643.
- Lubricating device. C. L. Wells. No. 1,397,065; Nov. 15.
- Lubricating device. H. H. Westinghouse. No. 1,400,647; Dec. 20.
- Lubricating device, Film-. N. Power. No. 1,377,727; May 10; v. 286; p. 313.
- Lubricating device for drill-presses, &c. J. F. Mirrielees. No. 1,398,338; Nov. 29.
- Lubricating device for shaft-bearings. M. A. Fesler. No. 1,370,803; Mar. 8; v. 284; p. 245.
- Lubricating device, Universal. C. Guggenbuehler. No. 1,367,252; Feb. 1; v. 283; p. 74.
- Lubricating means. W. J. Bayrer. No. 1,398,936; Nov. 29.
- Lubricating means. R. J. Paton. No. 1,379,282; May 24; v. 286; p. 736.
- Lubricating means and process. C. A. Ward. No. 1,389,720; Sept. 6; v. 290; p. 32.
- Lubricating means for spinning-rings. O. A. Dover. No. 1,375,833; Apr. 26; v. 285; p. 608.
- Lubricating-packing. H. A. Lacerda. (Reissue.) No. 15,078; Apr. 5; v. 285; p. 154.
- Lubricating-ring. H. L. Zabriskie and F. Diehl. No. 1,379,505; May 24; v. 286; p. 778.
- Lubricating shackle-bolt, Automatic. S. Hough and W. Lohr. No. 1,393,128; Oct. 11.
- Lubricating system. J. Bignan. No. 1,398,170; Nov. 22.
- Lubricating system. E. W. Davis. No. 1,401,765; Dec. 27.
- Lubricating system. G. W. Dunham. No. 1,399,943; Dec. 13.
- Lubricating system. D. F. Fesler. No. 1,387,843; Aug. 16; v. 289; p. 498.
- Lubricating system. S. W. Finch. No. 1,383,919; July 5; v. 288; p. 137.
- Lubricating system. J. E. P. Grant. No. 1,370,641; Mar. 8; v. 284; p. 214.
- Lubricating system. H. J. Hendricks. No. 1,391,634; Sept. 20; v. 290; p. 572.
- Lubricating system. B. H. Skelly. No. 1,372,565; Mar. 22; v. 284; p. 703.
- Lubricating system. H. U. Spence. No. 1,390,393; Sept. 13; v. 290; p. 259.
- Lubricating system. A. Ward. No. 1,380,276; May 31; v. 286; p. 997.
- Lubricating system. E. Woerner. No. 1,367,677; Feb. 8; v. 283; p. 214.
- Lubricating system, Piston-rod. N. H. Hiller. No. 1,371,308; Mar. 15; v. 284; p. 404.
- Lubricating systems, Filtering means for. E. E. Hans. No. 1,379,259; May 24; v. 286; p. 731.
- Lubrication, Ammunition. J. T. Thompson. No. 1,370,617; Mar. 8; v. 284; p. 209.
- Lubrication, Circulating. W. Holthorp. No. 1,397,050; Nov. 15.
- Lubrication guard and feeder, Combined. E. P. du Pont. No. 1,368,250; Feb. 15; v. 283; p. 372.
- Lubrication of machinery. J. W. White. No. 1,367,866; May 10; v. 286; p. 341.
- Lubrication, Rolling-mill. H. R. Geer. No. 1,397,163; Nov. 15.
- Lubricator. See—
- Automatic lubricator. Leaf-spring lubricator.
- Automatic force-feed lubricator. Locomotive-journal lubricator.
- Axle-lubricator. Nipple-lubricator.
- Bearing-lubricator. Pump-lubricator.
- Car-journal lubricator. Screw-stem lubricator.
- Force-feed lubricator. Shaft-lubricator.
- Guide-rail lubricator. Valve-stem lubricator.
- Journal-box lubricator. Vehicle-bracket lubricator.
- Journal-lubricator.



*Alphabetical list of inventions—Continued.*

- Lubricator. W. J. Beagle. No. 1,393,337; Oct. 11.  
 Lubricator. H. O. Boyer. No. 1,375,648; Apr. 19; v. 285; p. 541.  
 Lubricator. W. G. Coles. Nos. 1,397,036-7; Nov. 15.  
 Lubricator. J. Erickson. No. 1,382,490; June 21; v. 287; p. 522.  
 Lubricator. C. O. Fortney. No. 1,375,143; Apr. 19; v. 285; p. 445.  
 Lubricator. C. E. Jacobs. No. 1,369,110; Feb. 22; v. 283; p. 579.  
 Lubricator. J. G. Keough. No. 1,367,149; Feb. 1; v. 283; p. 53.  
 Lubricator. W. W. Martin. No. 1,369,687; Feb. 22; v. 283; p. 691.  
 Lubricator. F. Meckel. No. 1,379,199; May 24; v. 286; p. 720.  
 Lubricator. A. Rosner. No. 1,390,588; Sept. 13; v. 296; p. 298.  
 Lubricator. F. L. Scott. No. 1,373,026; Mar. 29; v. 284; p. 835.  
 Lubricator. H. J. Shavers. No. 1,384,353; July 12; v. 288; p. 276.  
 Lubricator. H. C. Smith. No. 1,367,211; Feb. 1; v. 283; p. 65.  
 Lubricator. E. B. Smith and A. H. Loucks. No. 1,385,283; July 19; v. 288; p. 549.  
 Lubricator. R. B. Sternberg and W. W. Webb. No. 1,389,227; Aug. 30; v. 289; p. 882.  
 Lubricator. F. Stone. No. 1,393,584; Oct. 11.  
 Lubricator. W. M. Thursby. No. 1,388,672; Aug. 23; v. 289; p. 717.  
 Lubricator. E. J. Timerman. No. 1,364,464; Jan. 4; v. 282; p. 81.  
 Lubricator. A. A. Van Orsdale. Nos. 1,401,835-6; Dec. 27.  
 Lubricator and humidifier, Combined. E. E. Young. No. 1,389,176; Aug. 30; v. 289; p. 872.  
 Lubricator for vehicle-brakes. C. W. Parker. No. 1,380,584; June 7; v. 287; p. 49.  
 Lubricator-nipple. T. H. Davis. No. 1,366,065; Jan. 18; v. 282; p. 474.  
 Lubricators, Pneumatic control for. C. F. Hoofer. No. 1,401,473; Dec. 27.  
 Lubricators, Sight-feed for force-feed. B. H. Skelly. No. 1,367,630; Feb. 8; v. 283; p. 205.  
 Lug. J. A. Bentz. No. 1,369,955; Mar. 1; v. 284; p. 38.  
 Lug-cleaner and plate-splitter. P. E. Norris. No. 1,372,824; Mar. 29; v. 284; p. 795.  
 Lug, Flexible, Mud-. F. M. Sturgis. No. 1,393,252; Oct. 11.  
 Lug mechanism. C. Frings. No. 1,372,346; Mar. 22; v. 284; p. 661.  
 Lug, Mud-. I. Ketelsen. No. 1,366,467; Jan. 25; v. 282; p. 597.  
 Lug-strap holder. A. A. Lafayette. No. 1,376,148; Apr. 26; v. 285; p. 669.  
 Lug-strap support. R. E. Welsh. No. 1,382,581; June 21; v. 287; p. 540.  
 Luggage-carrier. P. Jackson. No. 1,374,013; Apr. 5; v. 285; p. 124.  
 Luggage-carrier. A. A. Klug, A. M. and E. L. Reynolds. No. 1,377,997; May 10; v. 286; p. 366.  
 Luggage-carrier. F. H. Mansfield. No. 1,400,758; Dec. 20.  
 Luggage-carrier. M. E. Nelson. No. 1,398,140; Nov. 22.  
 Luggage-carrier. D. P. O'Keefe. No. 1,385,640; July 26; v. 288; p. 699.  
 Luggage-carrier. E. R. Perkins. No. 1,378,610; May 17; v. 286; p. 536.  
 Luggage-carrier. G. A. Roth. No. 1,399,154; Dec. 6.  
 Luggage-carrier. W. F. Snyder. No. 1,368,852; Feb. 15; v. 283; p. 490.  
 Luggage-carrier. H. G. Voight. No. 1,395,315; Nov. 1.  
 Luggage-carrier, Adjustable. J. R. Green. No. 1,373,502; Apr. 5; v. 285; p. 24.  
 Luggage-carrier for automobiles. C. R. Standley. No. 1,395,457; Nov. 1.  
 Luggage-holder, Collapsible. A. L. Berry. No. 1,378,210; May 17; v. 286; p. 459.  
 Luggage-rack. J. W. Bement. No. 1,381,961; June 21; v. 287; p. 423.  
 Lumber and timber trade-making device. J. G. McDonough. No. 1,400,223; Dec. 13.  
 Lumber edging and matching machine. H. A. Gale. No. 1,395,408; Nov. 1.  
 Lumber-handling machine. J. R. Szymanske. No. 1,382,396; June 21; v. 287; p. 504.  
 Lunch kit and folding table, Combination. R. W. Miller. No. 1,376,027; Apr. 26; v. 285; p. 646.  
 Lumber or timber, Machine for trade-marking or branding. J. G. McDonough. No. 1,383,552; July 5; v. 288; p. 61.  
 Lumber, Treatment of. F. and H. Pfeumer. No. 1,386,727; Aug. 9; v. 289; p. 222.  
 Luminous article. R. G. Fordyce. No. 1,388,855; Aug. 30; v. 289; p. 808.  
 Lunch kit. G. P. Altenberg. No. 1,393,657; Oct. 11.  
 Lung-exercising device. H. M. Oyen. No. 1,392,700; Oct. 4.  
 Lure-wabblers, Adjustable. H. L. Gottschalk. No. 1,389,644; Sept. 6; v. 290; p. 17.  
 Luting composition. R. J. Walker. No. 1,364,224; Jan. 4; v. 282; p. 34.  
 Lye-crushing machine. J. R. Gilda. No. 1,375,503; Apr. 19; v. 285; p. 513.  
 M-nitro-p-cresol, Production of. C. G. Derick, W. M. Ralph, and L. H. Flett. No. 1,394,150; Oct. 18.  
 Macaroni and noodles, Machine for making. S. Santilli. No. 1,384,350; July 12; v. 288; p. 276.  
 Macaroni, Machine for making. A. Di Domenica. No. 1,378,662; May 17; v. 286; p. 546.  
 Macaroni, &c., Method of and apparatus for drying. A. Gallerani. No. 1,388,702; Aug. 23; v. 289; p. 723.  
 Machine-clamp. H. Cadwallader, Jr. No. 1,376,077; Apr. 26; v. 285; p. 655.  
 Machine construction. V. B. Moore. No. 1,374,599; Apr. 12; v. 285; p. 278.  
 Machine element. Z. P. Candee. No. 1,393,610; Oct. 11.  
 Machine element. W. G. Doty. No. 1,393,886; Oct. 18.  
 Machine element. J. Jensen. No. 1,389,565; Aug. 30; v. 289; p. 950.  
 Machine element. G. C. Weiss. No. 1,386,037; Aug. 2; v. 289; p. 15.  
 Machine element and method and apparatus for making same. A. J. Fisher. No. 1,365,029; Jan. 11; v. 282; p. 234.  
 Machine element safety device. C. H. Morrow. No. 1,369,832; Mar. 1; v. 284; p. 15.  
 Machine for enameling plates and the like. R. H. Prichard. No. 1,385,492; July 26; v. 288; p. 668.  
 Machine for forming packages. E. E. Gray. No. 1,386,105; Aug. 2; v. 289; p. 29.  
 Machine operators, Guard for protecting. W. Woelfel. No. 1,384,501; July 12; v. 288; p. 307.  
 Machine ringing system. W. A. Rhodes. No. 1,370,558; Mar. 8; v. 284; p. 198.  
 Machine-stand. D. H. Chason. No. 1,364,350; Jan. 4; v. 282; p. 59.  
 Machine-stand. W. H. Ferguson. No. 1,371,154; Mar. 8; v. 284; p. 311.  
 Machine-tool. M. M. Cory. No. 1,396,165; Nov. 8.  
 Machine-tool. E. G. Loomis. No. 1,396,332; Nov. 8.  
 Machine-tool. C. G. Olson. No. 1,378,370; May 17; v. 286; p. 489.  
 Machine-tool. F. S. Shields and J. A. Camm. No. 1,387,517; Aug. 16; v. 289; p. 432.  
 Machine-tool. J. T. Thompson. No. 1,368,583; Feb. 15; v. 283; p. 438.  
 Machine-tool fixture. E. C. Lewis. No. 1,382,793; June 28; v. 287; p. 631.  
 Machine-tool trip. R. T. Hazelton. No. 1,390,706; Sept. 13; v. 290; p. 322.  
 Machine-tools, Adjustable work-holder for. F. L. Brodu. No. 1,380,287; May 31; v. 286; p. 999.  
 Machine-tools, Controlling means for. E. P. Bullard, Jr. No. 1,382,540; June 21; v. 287; p. 493.  
 Machine-tools, Feed-screw support for. A. Trosch. No. 1,389,399; Aug. 30; v. 289; p. 917.  
 Machine-tools, Indexing-fixture for. J. H. Pelizzoni. No. 1,399,992; Dec. 13.  
 Machine-tools, Parallel for. E. J. Bryant. No. 1,383,979; July 5; v. 288; p. 149.  
 Machine-tools, Screw-cleaning mechanism for. W. J. Hagman. No. 1,370,743; Mar. 8; v. 284; p. 233.  
 Machine-tools, Table-operating mechanism for. J. Goetz and F. A. Parsons. No. 1,397,731; Nov. 22.  
 Machine-tools, Transmission mechanism for. H. W. Hunt. No. 1,400,361; Dec. 13.  
 Machines, Filler for pulp. A. C. Van Kirk. No. 1,371,278; Mar. 15; v. 284; p. 398.  
 Machines, Means for coupling and uncoupling relatively movable members of. F. M. Snyder. No. 1,382,131; June 21; v. 287; p. 454.  
 Machines, Rotor for magneto-electric. J. Bohl. No. 1,385,038; July 19; v. 288; p. 499.  
 Magazine and sheet-withdrawing mechanism therefor. A. L. Kronquest. No. 1,395,232; Oct. 25.  
 Magazine construction. T. H. Eickhoff. No. 1,365,234; Jan. 11; v. 282; p. 272.  
 Magazine-loader. B. F. Bowlsby. No. 1,391,453; Sept. 20; v. 290; p. 536.  
 Magazine-loader. C. A. Nelson. No. 1,397,538; Nov. 22.  
 Magazines, Machine for delivering. H. A. W. Wood. No. 1,392,471; Oct. 4.  
 Magnesia and alumina, Bonded article of. R. C. Purdy, M. F. Beecher, and A. A. Klein. No. 1,394,442; Oct. 18.  
 Magnesium compounds, Reducing. L. Waldo. No. 1,379,886; May 31; v. 286; p. 923.  
 Magnet-core. J. W. Harris. No. 1,381,460; June 14; v. 287; p. 268.  
 Magnet, High-speed revolving field-. R. Rüdenberg. No. 1,376,729; May 3; v. 286; p. 66.  
 Magnet, Horseshoe-. F. Billon and J. Bohl. No. 1,401,130; Dec. 27.  
 Magnetic contact. V. Rigsby. No. 1,376,162; Apr. 26; v. 285; p. 671.  
 Magnetic controlling device. C. Marshall. No. 1,388,658; Aug. 23; v. 289; p. 715.  
 Magnetic controlling mechanism. H. A. Steen. No. 1,385,801; July 26; v. 288; p. 731.  
 Magnetic pulley. J. P. Bethke. No. 1,384,177; July 12; v. 288; p. 240.  
 Magnetic separating apparatus. C. G. Buchanan. No. 1,365,965; Jan. 18; v. 282; p. 455.  
 Magnetic separator. J. P. Bethke. No. 1,369,516; Feb. 22; v. 283; p. 657.  
 Magnetic Separator. F. Uhlig. No. 1,371,825; Mar. 15; p. 284; p. 504.



- Magnetic separator. G. Ullrich. No. 1,366,979; Feb. 1; v. 283; p. 19.
- Magnetic skelp-charging machine. S. C. Coey. (Reissue.) No. 57,175; Aug. 9; v. 289; p. 366.
- Magnetic spring. R. Liebau. No. 1,395,437; Nov. 1.
- Magnetic unit, Tetrahedral. J. B. Speed. No. 1,401,564; Dec. 27.
- Magnetic-wave therapeutic apparatus. T. H. Herndon. No. 1,379,919; May 31; v. 286; p. 930.
- Magneto. B. Bonomini and L. Duca. No. 1,372,739; Mar. 29; v. 284; p. 777.
- Magneto. J. B. Bushnell. No. 1,365,225; Jan. 11; v. 282; p. 271.
- Magneto. A. U. Davis. No. 1,383,605; July 5; v. 288; p. 72.
- Magneto. F. A. Hoyt. No. 1,398,485; Nov. 29.
- Magneto. E. A. New. No. 1,379,413; May 24; v. 286; p. 761.
- Magneto. F. H. Schryer. No. 1,385,720; July 26; v. 288; p. 715.
- Magneto. J. A. Williams. No. 1,401,571; Dec. 27.
- Magneto-armature. M. Duten. No. 1,394,289; Oct. 18.
- Magneto contact. J. Jepsen and J. R. Connolly. No. 1,370,114; Mar. 1; v. 284; p. 68.
- Magneto-contact-point protector. H. A. Bowers. No. 1,365,085; Jan. 11; v. 282; p. 244.
- Magneto-coupling. O. J. F. Jacobson. No. 1,391,777; Sept. 27; v. 290; p. 674.
- Magneto-electric generator for lighting vehicles. C. F. Dufaux. No. 1,385,119; July 19; v. 288; p. 517.
- Magneto-electric ignition-machine. F. Billon. No. 1,392,554; Oct. 4.
- Magneto-electric machine. E. A. Watson. No. 1,379,496; May 24; v. 286; p. 776.
- Magneto-electric sparking apparatus. M. Schäfer. No. 1,399,803; Dec. 13.
- Magneto for explosion-motors. T. Ruhlmann and C. Kottmann. No. 1,370,157; Mar. 1; v. 284; p. 76.
- Magneto-generator, Four-pole. H. C. Mueller. No. 1,394,108; Oct. 18.
- Magneto-ignition apparatus. A. Aichele. No. 1,391,234; Sept. 26; v. 290; p. 492.
- Magneto, Oscillating ignition-. A. C. Kleckner. No. 1,378,873; May 24; v. 286; p. 658.
- Magneto-starter. J. R. M. Stanfield. No. 1,386,081; Aug. 2; v. 289; p. 24.
- Magneto-testing machine. D. W. Onan. No. 1,394,215; Oct. 18.
- Magnetos, Automatic timing mechanism for oscillating. G. J. Lang. No. 1,399,777; Dec. 13.
- Magnetos, Current-collector for. V. W. Thomas. No. 1,372,788; Mar. 29; v. 284; p. 787.
- Magnetos, Flexible coupling for. L. H. Smith. No. 1,383,160; June 28; v. 287; p. 704.
- Magnetos, Impulse-starter coupling for. V. W. Kliesrath and R. Knopp. No. 1,365,700; Jan. 18; v. 282; p. 403.
- Magnetos or the like, Automatic pawl-throw for. P. E. Matthews. No. 1,376,024; Apr. 26; v. 285; p. 645.
- Magnetos, Starting mechanism for. S. C. McKeown. No. 1,389,890; Sept. 6; v. 290; p. 67.
- Magnets, Electromagnetic apparatus intended to magnetize permanent. A. Luzzy. No. 1,398,526; Nov. 29.
- Mail and other articles, Sea carrier for. F. Gvosdenovich. No. 1,370,432; Mar. 1; v. 284; p. 128.
- Mail. Apparatus for transferring. J. Forslund. No. 1,386,856; Aug. 9; v. 289; p. 249.
- Mail-bag catcher. A. W. Schmutzer. No. 1,377,932; May 10; v. 286; p. 355.
- Mail-bag catcher. W. R. Shultz. No. 1,387,518; Aug. 16; v. 289; p. 432.
- Mail-bag catching and delivering apparatus. J. G. Welch. No. 1,400,114; Dec. 13.
- Mail-bag exchange. C. F. Smith. No. 1,393,980; Oct. 18.
- Mail-bag lock. F. L. Graham, Jr. No. 1,398,638; Nov. 29.
- Mail-bags, &c., Fastener for. A. Macdonald and T. W. Wallace. No. 1,388,735; Aug. 23; v. 289; p. 730.
- Mail-box. W. M. Chapman. No. 1,393,944; Oct. 18.
- Mail-box. E. T. Fry. No. 1,382,419; June 21; v. 287; p. 509.
- Mail-box. A. F. Martel. No. 1,364,126; Jan. 4; v. 282; p. 15.
- Mail-box. C. C. Merck. No. 1,368,184; Feb. 8; v. 283; p. 311.
- Mail-box. A. Styrbinski. No. 1,366,294; Jan. 18; v. 282; p. 519.
- Mail-box indicator. S. Davis. No. 1,370,196; Mar. 1; v. 284; p. 83.
- Mail-box signal and latch. J. B. Maserang. No. 1,366,323; Jan. 18; v. 282; p. 524.
- Mail-box signal, Automatic. S. E. Stafford. No. 1,380,164; May 31; v. 286; p. 976.
- Mail catching and delivering device. F. L. R. P., and L. H. Martin. No. 1,388,738; Aug. 23; v. 289; p. 730.
- Mail-collecting apparatus. E. J. Leger. No. 1,400,611; Dec. 20.
- Mail delivering and catching device. H. S. Prete. No. 1,382,543; June 21; v. 287; p. 532.
- Mail-delivering apparatus, Railway. O. M. Gilbertson. No. 1,381,414; June 14; v. 287; p. 259.
- Mail-delivery apparatus. A. C. Cobb. No. 1,366,401; Jan. 25; v. 282; p. 583.
- Mail delivery, Railway-. H. E. Smith. No. 1,364,591; Jan. 4; v. 282; p. 105.
- Mail-distributing device. C. M. Richardson. No. 1,391,693; Sept. 27; v. 290; p. 657.
- Mail-exchange device. J. E. Glass. No. 1,379,974; May 31; v. 286; p. 940.
- Mail exchange, Railway-. H. E. Smith. No. 1,370,710; Mar. 8; v. 284; p. 227.
- Malt extract, Manufacture of. S. H. Green and J. D. Opie. No. 1,391,159; Sept. 20; v. 290; p. 476.
- Mail, &c., Feed mechanism for machines for marking. J. W. Ogden. No. 1,381,589; June 14; v. 287; p. 292.
- Mail, Machine for postmarking and canceling. W. H. Bowes. No. 1,365,886; Jan. 18; v. 282; p. 440.
- Mail post and box, Rural. D. Butson. No. 1,368,110; Feb. 8; v. 283; p. 297.
- Mail-pouch-suspending hook. R. E. Lee. No. 1,400,082; Dec. 13.
- Mail-receiving device. J. A. Chambers. No. 1,372,602; Mar. 22; v. 284; p. 710.
- Mail-receptacle. C. L. Abbott. No. 1,365,960; Jan. 18; v. 282; p. 454.
- Mail-receptacle, House. W. H. Martin. No. 1,397,438; Nov. 15.
- Mail-signaling book. N. L. Tooker. No. 1,395,372; Nov. 1.
- Mail-transfer device, Railway. C. Hartmann. No. 1,381,461; June 14; v. 287; p. 268.
- Mailing-chute, Safety. C. E. Winstead. No. 1,368,870; Feb. 15; v. 283; p. 494.
- Maize-header. A. P. Jordan. No. 1,378,679; May 17; v. 286; p. 549.
- Making couplings. E. E. Johnson. No. 1,369,975; Mar. 1; v. 284; p. 42.
- Making wrought-iron. J. Aston. No. 1,380,178; May 31; v. 286; p. 979.
- Malt preparation, Preserved. B. A. Hoehl. No. 1,381,833; June 14; v. 287; p. 338.
- Man-catching tank. S. Valinski. No. 1,392,095; Sept. 27; v. 290; p. 739.
- Mandolin attachment for pianos. G. Cloetens. No. 1,392,248; Sept. 27; v. 290; p. 770.
- Mandrel. H. F. Maranville. No. 1,390,302; Sept. 13; v. 290; p. 241.
- Mandrel-press. L. Kellenberger. No. 1,393,789; Oct. 18.
- Mandrel-press. R. W. Taylor, Sr. No. 1,397,910; Nov. 22.
- Mandrels of machine-tools of all kinds, Feed device for the. M. Janicke. No. 1,400,072; Dec. 13.
- Mandrels, spindles, &c., Means for securing articles on. B. J. Bloomfield. No. 1,382,949; June 28; v. 287; p. 663.
- Mangle. J. Norrie. No. 1,385,703; July 26; v. 288; p. 712.
- Mangle. J. Norrie. No. 1,385,704; July 26; v. 288; p. 712.
- Mangle. W. H. S. Strong. No. 1,380,266; May 31; v. 286; p. 995.
- Mangle and table, Combined. J. Kashinsky. No. 1,364,116; Jan. 4; v. 282; p. 13.
- Mangle, Detachable. H. L. Carson and R. A. Hunter. No. 1,398,501; Nov. 29.
- Manhole. F. Shanley. No. 1,364,323; Jan. 4; v. 282; p. 54.
- Manhole. F. Shanley. No. 1,384,712; July 12; v. 288; p. 352.
- Manhole-cover. J. H. Thomsen. No. 1,388,492; Aug. 23; v. 289; p. 683.
- Manhole-fitting. J. Gray. No. 1,382,187; June 21; v. 287; p. 464.
- Manhole-form. F. L. Young. No. 1,400,927; Dec. 20.
- Manhole-top. C. G. Armstrong. No. 1,364,422; Jan. 4; v. 282; p. 73.
- Manholes, Safety device for. O. J. Swanson. No. 1,379,487; May 24; v. 286; p. 774.
- Manicure instrument. F. Lobl. No. 1,370,461; Mar. 1; v. 284; p. 134.
- Manicure instrument. T. E. New. No. 1,375,167; Apr. 19; v. 285; p. 449.
- Manicuring implement. W. B. Etzweiler. No. 1,395,180; Oct. 25.
- Manicuring instrument, M. V. Bauer. No. 1,365,883; Jan. 18; v. 282; p. 439.
- Manifold. H. W. Allen. No. 1,397,712; Nov. 22.
- Manifold. A. Holmes. No. 1,375,909; Apr. 26; v. 285; p. 623.
- Manifold. A. Holmes. No. 1,375,910; Apr. 26; v. 285; p. 623.
- Manifold. N. K. Psachos. No. 1,364,310; Jan. 4; v. 282; p. 52.
- Manifold, Combined intake and exhaust. G. F. Clark. No. 1,399,930; Dec. 13.
- Manifold-cover. H. T. Melling. No. 1,389,961; Sept. 6; v. 290; p. 81.
- Manifold, Exhaust-. J. M. King. No. 1,374,927; Apr. 19; v. 285; p. 402.
- Manifold-form sheet. L. Ingersoll. No. 1,385,832; July 26; v. 288; p. 737.
- Manifold-heater. J. P. Ruth, Jr. No. 1,388,377; Aug. 23; v. 289; p. 660.
- Manifold-heater. A. Q. Mueller and W. H. Koeller. No. 1,399,980; Dec. 13.
- Manifold, Intake-. B. Ivor. No. 1,395,677; Nov. 1.



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- Manifold-sheets, Alinement device for. A. S. Burke. No. 1,395,255; Nov. 1.
- Manifold-shield. C. F. De Lano; No. 1,377,811; May 10; v. 286; p. 331.
- Manifolding device. J. W. Anderson. No. 1,390,263; Sept. 13; v. 290; p. 233.
- Manifolding device. A. C. V. Malm. (Reissue.) No. 15,074; Mar. 29; v. 284; p. 908.
- Manifolding, duplicating, and the like. D. Gestetner. No. 1,371,157; Mar. 8; v. 284; p. 311.
- Manlift. C. H. Miller. No. 1,382,211; June 21; v. 287; p. 468.
- Mantles, Machine for making. P. Sinclair. No. 1,391,515; Sept. 20; v. 290; p. 549.
- Manifes, Package for. W. D. Antrim. No. 1,372,636; Mar. 22; v. 284; p. 717.
- Manually-operated circuit-crossing switch. J. B. Grosswege. No. 1,389,134; Aug. 30; v. 289; p. 864.
- Manufacture of steel, the treating of iron, and the production of Portland cement. C. D. Hillhouse. No. 1,366,383; Jan. 25; v. 282; p. 579.
- Manure. H. E. Fry. No. 1,397,629; Nov. 22.
- Manure-loader. A. R. Nelson. No. 1,392,653; Oct. 4.
- Manure-loading fork. H. Bittle. No. 1,390,870; Sept. 13; v. 290; p. 355.
- Manure-remover. S. E. Brown. No. 1,388,796; Aug. 23; v. 289; p. 742.
- Manure-spreader. W. C. Leminger. No. 1,389,518; Aug. 30; v. 289; p. 940.
- Map. C. E. Anderson. No. 1,381,957; June 21; v. 287; p. 422.
- Map. A. E. Bloomfield. No. 1,364,239; Jan. 4; v. 282; p. 37.
- Map. A. E. Bloomfield. No. 1,390,079; Sept. 6; v. 290; p. 105.
- Map, Aerial-photograph. D. L. Behncke. No. 1,388,915; Aug. 30; v. 289; p. 820.
- Map, Automatic road-. E. K. Brown. No. 1,398,623; Nov. 29.
- Map-case. J. F. Pilgrim and W. A. Nimmer. No. 1,397,327; Nov. 15.
- Map-case. F. H. Swanson. No. 1,384,874; July 19; v. 288; p. 465.
- Map-holder. J. J. Bovy. No. 1,396,553; Nov. 8.
- Map-holder. S. L. Toplitz. No. 1,378,499; May 17; v. 286; p. 514.
- Map machine, Profile-. E. S. Clark. No. 1,379,528; May 24; v. 286; p. 782.
- Map-plate. W. H. Greeley. No. 1,383,622; July 5; v. 288; p. 76.
- Map, Road-. E. W. Mason and C. D. Miller. Nos. 1,395,508-9; Nov. 1.
- Maps, diagrams, &c., Device for holding and displaying. O. W. Moore. No. 1,371,510; Mar. 15; v. 284; p. 444.
- Maps, &c., Locality-finder for. W. E. Bridwell. No. 1,389,293; Aug. 30; v. 289; p. 896.
- Maps, Making double-page multicolor. W. H. Greeley. No. 1,383,621; July 5; v. 288; p. 75.
- Maps, pictures, &c., Forming relief. K. Wenschow. No. 1,393,255; Oct. 11.
- Margarin and making the same. E. J. Wall and J. W. Phelan. No. 1,386,475; Aug. 2; v. 289; p. 100.
- Margin-gage device. C. Spiro. No. 1,398,282; Nov. 29.
- Marine-engine governor or controller. S. J. Sanford. No. 1,366,595; Jan. 25; v. 282; p. 623.
- Marine propulsion. J. M. Bowles. No. 1,401,036; Dec. 20.
- Mariners, Star-transit calculator and indicator for. H. L. V. D. Glot. No. 1,383,296; July 5; v. 288; p. 8.
- Marionette. M. M. Dondo. No. 1,400,532; Dec. 20.
- Marker. G. W. Erickson. No. 1,375,685; Apr. 26; v. 285; p. 581.
- Marker. P. Giordano. No. 1,374,443; Apr. 12; v. 285; p. 247.
- Marker. G. Perry. No. 1,373,569; Apr. 5; v. 285; p. 37.
- Marker and grader, Lumber. J. G. McDonough. No. 1,367,066; Feb. 1; v. 283; p. 37.
- Marker and skirt-gage, Garment-. E. Thorpe. No. 1,372,107; Mar. 22; v. 284; p. 615.
- Marker, Automatic. B. Levine. No. 1,377,208; May 10; v. 286; p. 214.
- Marker, Furrow-. J. S. Harwell. No. 1,378,788; May 17; v. 286; p. 570.
- Marker, Laying-hen. H. Herbert. No. 1,368,500; Feb. 15; v. 283; p. 422.
- Marker or indicator. C. Wofford. No. 1,395,323; Nov. 1.
- Marker, Playground-. M. H. Seitz. No. 1,380,600; June 7; v. 287; p. 52.
- Marker, Sliding-. C. F. Shong. No. 1,392,710; Oct. 4.
- Marker, Toothbrush-. E. J. Brown. No. 1,380,633; June 7; v. 287; p. 58.
- Marking and writing device. E. K. Parkinson. No. 1,373,146; Mar. 29; v. 284; p. 859.
- Marking animals, Device for. T. F. Amoedo. No. 1,378,166; May 17; v. 286; p. 451.
- Marking articles, Method and apparatus for. J. C. Thom. No. 1,386,811; Aug. 9; v. 289; p. 240.
- Marking cylindrical articles, Machine for. G. S. Thompson. No. 1,386,812; Aug. 9; v. 289; p. 240.
- Marking device. M. Bonsiakos. No. 1,367,939; Feb. 8; v. 283; p. 264.
- Marking device. H. M. Manss. No. 1,369,450; Feb. 22; v. 283; p. 645.
- Marking device. W. C. Stewart. No. 1,377,290; May 10; v. 286; p. 230.
- Marking device. C. H. Winne. No. 1,369,512; Feb. 22; v. 283; p. 656.
- Marking device. I. Wisnipsky. No. 1,374,482; Apr. 12; v. 285; p. 255.
- Marking device, Fabric-. R. R. Hughes, Jr. No. 1,371,373; Mar. 15; v. 284; p. 416.
- Marking-line. W. F. Gregory. No. 1,373,884; Apr. 5; v. 285; p. 98.
- Marking-machine. G. H. and E. L. Lang. No. 1,398,076; Nov. 22.
- Marking-machine. C. E. Larsen. No. 1,372,966; Mar. 29; v. 284; p. 824.
- Marking-machine. C. F. Robbins. No. 1,365,062; Jan. 11; v. 282; p. 239.
- Marking-machine. H. W. Winter. No. 1,400,708; Dec. 20.
- Marking machine, Mail-. D. Robertson and R. M. Simpson. No. 1,386,952; Aug. 9; v. 289; p. 268.
- Marking or printing device, Hand. S. H. Paxton. No. 1,364,301; Jan. 4; v. 282; p. 50.
- Marking-tag. J. D. Nagel, Jr. No. 1,383,417; July 5; v. 288; p. 33.
- Marshmallow or other material depositing machines, Automatically-operating material-sprinkling hopper for. P. Rasmussen. No. 1,397,658; Nov. 22.
- Masher, Vegetable-. C. H. Sundberg. No. 1,373,843; Apr. 5; v. 285; p. 90.
- Mashing process. H. E. Deckebach. No. 1,374,191; Apr. 12; v. 285; p. 198.
- Mask. F. M. Dessart. No. 1,391,617; Sept. 20; v. 290; p. 569.
- Mask. M. Palij. No. 1,401,724; Dec. 27.
- Mask. H. H. Pohlmann. No. 1,387,307; Aug. 9; v. 289; p. 338.
- Mask for inhalation. W. J. Jandron. No. 1,391,060; Sept. 20; v. 290; p. 456.
- Mask, Gas-. W. C. Gier, N. S. Noble, and E. S. Teed. No. 1,371,236; Mar. 15; v. 284; p. 389.
- Mask, Gas-. J. F. Lamb and F. E. Carlson. No. 1,388,959; Aug. 30; v. 289; p. 829.
- Mask, Sanitary. J. E. Leduc. No. 1,377,710; May 10; v. 286; p. 310.
- Massage and therapeutic gymnastic treatment, Apparatus for. C. G. Holmstrom. No. 1,400,547; Dec. 20.
- Massage apparatus. L. A. Thompson. No. 1,391,919; Sept. 27; v. 290; p. 703.
- Massage apparatus for improving the hearing. J. S. Leach. No. 1,365,416; Jan. 11; v. 282; p. 308.
- Massage apparatus, Power-operated vacuum. H. L. Hopkins. No. 1,364,500; Jan. 4; v. 282; p. 88.
- Massage device. J. O. Linden. No. 1,380,986; June 7; v. 287; p. 127.
- Massage device, Facial-. H. E. Gray. No. 1,399,340; Dec. 6.
- Massage-tool. H. Malm. No. 1,371,044; Mar. 8; v. 284; p. 290.
- Massage-tool. H. Malm. No. 1,382,436; June 21; v. 287; p. 512.
- Massaging and medicating apparatus, Eye. F. C. Dormont. No. 1,377,760; May 10; v. 286; p. 320.
- Massaging apparatus. P. L. F. H. Chaussinand. No. 1,387,687; Aug. 16; v. 289; p. 466.
- Massaging device. F. K. North. No. 1,377,140; May 3; v. 286; p. 145.
- Massaging device, Mechanical. P. C. Dube. No. 1,364,623; Jan. 4; v. 282; p. 111.
- Massaging device, Vibratory. S. M. Coffman. No. 1,391,759; Sept. 27; v. 290; p. 671.
- Massaging-machine. J. Kercher. No. 1,384,072; July 12; v. 288; p. 218.
- Mast-trimming mechanism. W. H. Palmer and G. E. Davies. No. 1,380,735; June 7; v. 287; p. 78.
- Mat. See—
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|---------------------|----------------|
| Asbestos table-mat. | Filtering-mat. |
| Chair-mat.          | Rubber mat.    |
| Elastic slip-mat.   | Table-mat.     |
| Fascine mat.        | Traction-mat.  |
- Mat. H. E. Gothberg. No. 1,384,891; July 19; v. 288; p. 468.
- Mat construction, Yielding. C. C. Hall. No. 1,387,391; Aug. 9; v. 289; p. 356.
- Match and toothpick, Combined. M. Bercovici. No. 1,382,459; June 21; v. 287; p. 516.
- Match and toothpick dispenser. J. D. Byer. No. 1,395,388; Nov. 1.
- Match-box. W. A. Braden. No. 1,371,731; Mar. 15; v. 284; p. 487.
- Match-box. F. A. Fuller. No. 1,376,931; May 3; v. 286; p. 105.
- Match-box. H. Maheux. No. 1,392,429; Oct. 4.
- Match-box. B. F. Michel. No. 1,378,711; May 17; v. 286; p. 555.
- Match-box. J. B. Young. No. 1,396,545; Nov. 8.
- Match-box holder. C. E. Prickett. No. 1,397,232; Nov. 15.
- Match-box holder. F. Van Sensus. No. 1,381,522; June 14; v. 287; p. 279.
- Match-box, Novelty. S. K. Nomeland. No. 1,400,904; Dec. 20.
- Match-case. C. Rothen. No. 1,399,322; Dec. 6.
- Match-heads, Composition for. W. A. Fairburn. (Re-issue.) No. 15,039; Feb. 15; v. 283; p. 517.



- Match-holder. A. C. Sartin. No. 1,371,982; Mar. 15; v. 284; p. 534.
- Match-making machines, Apparatus for packing matches in boxes for. H. A. Gsell. No. 1,378,784; May 17; v. 286; p. 569.
- Match-safe and combined dispensing and striking mechanism therefor. G. H. Bruington. No. 1,374,354; Apr. 12; v. 285; p. 229.
- Match-splints, Impregnating. J. P. Bennett. No. 1,372,860; Mar. 29; v. 284; p. 802.
- Matches and making same, Composition for. M. Prado P. No. 1,387,999; Aug. 16; v. 289; p. 528.
- Matches, Detachable retainer for. M. Rope. No. 1,385,474; July 26; v. 288; p. 664.
- Matches, Machine for cutting cardboard strips for making. P. Bozzo. No. 1,395,473; Nov. 1.
- Matches, Machine for making card-. H. A. Rudd. No. 1,399,081; Dec. 6.
- Matches, Machine for packing. L. E. Parker. No. 1,374,222; Apr. 12; v. 285; p. 204.
- Matches, Manufacture of igniting compositions for. O. J. Mellgren. No. 1,379,355; May 24; v. 286; p. 750.
- Material and manufacture, Non-absorbent. F. J. Morrison. No. 1,365,716; Jan. 18; v. 282; p. 406.
- Material and producing same, Fertilizing. M. O. Johnson. No. 1,370,117; Mar. 1; v. 284; p. 68.
- Material-feed-reel brake. H. V. James. No. 1,383,953; July 5; v. 288; p. 144.
- Material, Fibrous. W. W. Carter. No. 1,365,891; Jan. 18; v. 282; p. 441.
- Material-handling. H. A. Gillian. No. 1,391,183; Sept. 20; v. 290; p. 481.
- Material-handling apparatus. E. McGowan and P. Upham. No. 1,389,888; Sept. 6; v. 290; p. 66.
- Material-mixer. H. L. Glaze. No. 1,366,646; Jan. 25; v. 282; p. 633.
- Material, Mortar-forming. F. Hartner. No. 1,371,762; Mar. 15; v. 284; p. 492.
- Material-rack. G. M. Turner. No. 1,393,054; Oct. 11.
- Material, Roofing. S. M. Ford. No. 1,365,902; Jan. 18; v. 282; p. 443.
- Material-separator. M. A. Dean. No. 1,376,190; Apr. 26; v. 285; p. 676.
- Material to be dumped, &c., Removing. G. Schwabach. No. 1,399,663; Dec. 6.
- Material-working machines, Operating device for. B. F. Stowell. No. 1,390,469; Sept. 13; v. 290; p. 273.
- Materials, Apparatus for delivering. F. P. Martin. No. 1,393,561; Oct. 11.
- Materials, Apparatus for testing the hardness of. L. Johnson and H. Brearley. No. 1,384,389; July 12; v. 288; p. 284.
- Materials, Appliance for determining the hardness of. P. V. Vernon. No. 1,369,993; Mar. 1; v. 284; p. 45.
- Materials, Device for mixing. G. Whigelt. No. 1,381,686; June 14; v. 287; p. 311.
- Materials, Marking. N. Smith. No. 1,374,329; Apr. 12; v. 285; p. 225.
- Materials of different specific gravity, Apparatus for separating. T. Charlton. No. 1,365,815; Jan. 18; v. 282; p. 425.
- Maternity and invalid chair. E. T. Read and A. J. Bartz. No. 1,372,546; Mar. 22; v. 284; p. 699.
- Matrices and color-screens therefrom, Producing. I. Kite. No. 1,383,819; July 5; v. 288; p. 117.
- Matrices, Composite sheet for making. E. E. Novotny. No. 1,377,512; May 10; v. 286; p. 273.
- Matrices, Machine for shaping. L. H. Bechman. No. 1,392,621; Oct. 4.
- Matrices, Space-liner for. W. R. Cozatt. No. 1,400,728; Dec. 20.
- Matrix. E. E. Novotny. No. 1,377,510; May 10; v. 286; p. 273.
- Matrix and making same, Printing-plate. H. M. Blaetz. No. 1,382,713; June 28; v. 287; p. 619.
- Matrix and matrix-holder. F. Wiggins. No. 1,378,748; May 17; v. 286; p. 562.
- Matrix and product thereof, Preparing retread-. E. C. Hufford. No. 1,380,320; May 31; v. 286; p. 1005.
- Matrix-cleaning apparatus. J. J. Burke and A. L. Adams. No. 1,371,221; Mar. 15; v. 284; p. 386.
- Matrix-handling means. J. J. Burke and A. L. Adams. No. 1,371,222; Mar. 15; v. 284; p. 386.
- Matrix-receptacle. A. G. Stevenson. No. 1,381,359; June 14; v. 287; p. 249.
- Matting. T. Naemura. No. 1,379,278; May 24; v. 286; p. 735.
- Mattress. A. Bernstein. No. 1,394,061; Oct. 18.
- Mattress. G. A. Conlan. No. 1,393,755; Oct. 18.
- Mattress. P. Gardner. No. 1,393,619; Oct. 11.
- Mattress. J. C. Newborn. No. 1,382,531; June 21; v. 287; p. 530.
- Mattress. M. Nyhus. No. 1,375,061; Apr. 19; v. 285; p. 429.
- Mattress. A. Scanlan. No. 1,381,751; June 14; v. 287; p. 323.
- Mattress. M. Van Gelder. No. 1,389,715; Sept. 6; v. 290; p. 31.
- Mattress. T. Wallace. No. 1,395,879; Nov. 1.
- Mattress. W. H. White. No. 1,379,147; May 24; v. 286; p. 710.
- Mattress and spring, Vermin-proof combined. E. P. Mahony. No. 1,371,919; Mar. 15; v. 284; p. 522.
- Mattress attachment. C. Hanson. No. 1,372,505; Mar. 22; v. 284; p. 691.
- Mattress beating and shaping machine. W. R. Kropf. No. 1,382,919; June 28; v. 287; p. 658.
- Mattress, Bed-. B. W. Giese. No. 1,371,362; Mar. 15; v. 284; p. 415.
- Mattress-conveyer. J. A. and H. Peterson. No. 1,381,429; June 14; v. 287; p. 262.
- Mattress fabric. O. J. Gasau. No. 1,373,232; Mar. 29; v. 284; p. 876.
- Mattress-filling machine. F. Contrado, H. R. Swanson, and E. M. Schwartz. No. 1,370,411; Mar. 1; v. 284; p. 124.
- Mattress-frame. D. C. Travis. No. 1,389,918; Sept. 6; v. 290; p. 73.
- Mattress-holder. M. T. Jones. No. 1,371,098; Mar. 8; v. 284; p. 300.
- Mattress or cushion, Spring. R. Bradshaw. No. 1,369,004; Feb. 22; v. 283; p. 558.
- Mattress, Spring-. R. Coopersmith. No. 1,369,325; Feb. 22; v. 283; p. 620.
- Mattress, Spring-. R. Coopersmith. No. 1,382,344; June 21; v. 287; p. 494.
- Mattress, Spring-. C. E. Dowsett. No. 1,367,950; Feb. 8; v. 283; p. 267.
- Mattress support, Spring-. H. Litvak. No. 1,394,849; Oct. 25.
- Mattress-tufting machine. G. Dillon. (Reissue.) No. 1,523; Dec. 27.
- Mattress-turner. B. K. Engevik. No. 1,381,813; June 14; v. 287; p. 335.
- Mattresses. C. A. Hermann. No. 1,398,297; Nov. 29.
- Mattresses and springs, Display-rack for bed. O. R. Lindstaedt. No. 1,391,484; Sept. 20; v. 290; p. 542.
- Mattresses, Device for heating and cooling. M. S. Maruda. No. 1,392,268; Sept. 27; v. 290; p. 774.
- Mattresses, Filling for. F. Maussner. No. 1,400,302; Dec. 13.
- Mattresses, Waste-recovering device for use in making. T. F. Kronlund. No. 1,366,390; Jan. 25; v. 282; p. 581.
- Matzo-breaker. J. U. Manischewitz. No. 1,401,268; Dec. 27.
- Mausoleum. W. McMeans. No. 1,395,852; Nov. 1.
- Meal or flour and milling products, Treating. E. C. Sutherland. No. 1,380,334; May 31; v. 286; p. 1008.
- Meal or flour and milling products, Treating. E. C. Sutherland. No. 1,381,079; June 7; v. 287; p. 145.
- Meal, Whole-rice. M. M. Baumgartner. No. 1,399,920; Dec. 13.
- Measure and gage. C. H. Brose. No. 1,380,187; May 31; v. 286; p. 980.
- Measure dispensing apparatus, Visible-. A. McKellar. No. 1,383,223; June 28; v. 287; p. 715.
- Measure, Tape-. L. E. Wood. No. 1,383,587; July 5; v. 288; p. 68.
- Measuring and calibrating method, Electric. O. A. Knopp. No. 1,372,821; Mar. 29; v. 284; p. 794.
- Measuring and computing machine, Cloth. W. E. Hosch. No. 1,369,663; Feb. 22; v. 283; p. 687.
- Measuring and computing machine, Cloth. W. E. Hosch. No. 1,371,028; Mar. 8; v. 284; p. 287.
- Measuring and cutting apparatus. G. B. Heffelfinger. No. 1,392,871; Oct. 4.
- Measuring and describing instrument. J. H. Martin. No. 1,397,816; Nov. 22.
- Measuring and dispensing apparatus. J. Fleckenstein. No. 1,367,366; Feb. 1; v. 283; p. 96.
- Measuring and dispensing apparatus, Liquid. W. H. Dutton and C. E. Stone. No. 1,393,272; Oct. 11.
- Measuring and dispensing apparatus, Locking control for power-operated. L. E. Baker. No. 1,395,697; Nov. 1.
- Measuring and dispensing device. L. B. Tucker. No. 1,395,168; Oct. 25.
- Measuring and dispensing device, Combined. C. H. Genth and W. Kline. No. 1,392,490; Oct. 4.
- Measuring and filling machine. J. McNerney. No. 1,381,926; June 21; v. 287; p. 416.
- Measuring and molding device. H. J. Schubert. No. 1,390,590; Sept. 13; v. 290; p. 299.
- Measuring and plotting instrument. F. Rosskopf. No. 1,398,243; Nov. 29.
- Measuring and recording device, Liquid. G. W. Johnston. No. 1,365,324; Jan. 11; v. 282; p. 291.
- Measuring and registering device, Liquid. A. Stuber. No. 1,370,068; Mar. 1; v. 284; p. 59.
- Measuring and testing device, Gasolene. A. Rogers. No. 1,378,280; May 17; v. 286; p. 473.
- Measuring apparatus. J. E. Boettcher. No. 1,373,049; Mar. 29; v. 284; p. 839.
- Measuring apparatus, Electrical. H. W. Hitchcock. No. 1,373,504; Apr. 5; v. 285; p. 25.
- Measuring apparatus, Electrical. E. F. Northrup. No. 1,375,010; Apr. 19; v. 285; p. 419.
- Measuring apparatus, Electrical. I. B. Smith. No. 1,378,873; May 24; v. 286; p. 658.
- Measuring apparatus, Thread-. A. E. Bjorkman. No. 1,377,959; May 10; v. 286; p. 359.
- Measuring apparatus, Weight-controlled. A. L. and H. W. Fisher. No. 1,368,129; Feb. 8; v. 283; p. 301.
- Measuring apparatus, Vapor-tension-. S. A. Chadwell. No. 1,393,942; Oct. 18.



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- Measuring appliance. S. E. Parrish. No. 1,367,278; Feb. 1; v. 283; p. 79.
- Measuring-blocks, Base for holders for. C. A. Westerberg. No. 1,397,189; Nov. 15.
- Measuring-can. T. Hanson. No. 1,377,577; May 10; v. 286; p. 284.
- Measuring concealed objects. E. E. Brostrom. No. 1,396,920; Nov. 15.
- Measuring device. C. T. Allcutt. No. 1,390,743; Sept. 13; v. 290; p. 330.
- Measuring device. J. Duplessie. No. 1,382,717; June 28; v. 287; p. 620.
- Measuring device. D. G. Lorraine. No. 1,401,913; Dec. 27.
- Measuring device. L. Mazzocco. No. 1,369,346; Feb. 22; v. 283; p. 625.
- Measuring device. G. J. Olney. No. 1,388,192; Aug. 23; v. 289; p. 622.
- Measuring device. H. S. Petersen. No. 1,385,270; July 19; v. 288; p. 547.
- Measuring device. E. P. Robbins and S. S. Matthes. No. 1,383,340; July 5; v. 288; p. 17.
- Measuring device. F. C. Stevens. No. 1,378,572; May 17; v. 286; p. 528.
- Measuring device. J. A. Tupper. No. 1,372,849; Mar. 29; v. 284; p. 799.
- Measuring device. M. J. Weber. No. 1,371,281; Mar. 15; v. 284; p. 398.
- Measuring device. G. L. Weller. No. 1,389,723; Sept. 6; v. 290; p. 33.
- Measuring device. J. T. Wilson. No. 1,396,308; Nov. 8.
- Measuring device, Cloth and ribbon. S. E. Parrish. No. 1,367,277; Feb. 1; v. 283; p. 78.
- Measuring device, Electrical. O. A. Knopp. No. 1,399,968; Dec. 13.
- Measuring device for bottle-fillers, Syrup. H. Alexander. No. 1,394,530; Oct. 25.
- Measuring device for semiliquids. E. T. Upright. No. 1,393,856; Oct. 18.
- Measuring device, Gasolene. J. C. McCallip. No. 1,366,814; Jan. 25; v. 282; p. 666.
- Measuring device, Medicine. C. J. Walker. No. 1,375,430; Apr. 19; v. 285; p. 499.
- Measuring device, Portable gasolene. J. M. Faulconer. No. 1,368,494; Feb. 15; v. 283; p. 420.
- Measuring device, Rotary. J. W. Gibbons. No. 1,369,740; Feb. 22; v. 283; p. 702.
- Measuring distances, Apparatus for. H. E. Ely, Jr. No. 1,386,610; Aug. 9; v. 289; p. 199.
- Measuring granular material, Meter for. E. Ogur. No. 1,398,790; Nov. 29.
- Measuring instrument. A. L. Daniels. No. 1,382,628; June 28; v. 287; p. 602.
- Measuring instrument. W. Nernst. No. 1,395,653; Nov. 1.
- Measuring instrument. R. T. Pierce. No. 1,395,294; Nov. 1.
- Measuring instrument. H. Samuel. No. 1,386,899; Aug. 9; v. 289; p. 258.
- Measuring instrument. R. C. Showalter. No. 1,394,229; Oct. 18.
- Measuring instrument. C. B. Simmons and F. G. Hughes. No. 1,387,622; Aug. 16; v. 289; p. 453.
- Measuring instrument. W. Spier. No. 1,370,233; Mar. 1; v. 284; p. 91.
- Measuring instrument, Angular. R. K. Seals. No. 1,390,821; Sept. 13; v. 290; p. 345.
- Measuring instrument, Electric. F. W. Roiler. No. 1,380,419; June 7; v. 287; p. 18.
- Measuring instrument, Electrical. W. M. Bradshaw and C. A. Baddie. No. 1,400,018; Dec. 13.
- Measuring instrument, Electrical. L. W. Chubb. No. 1,376,899; May 3; v. 286; p. 4.
- Measuring instrument, Electrical. L. W. Chubb. No. 1,395,335; Nov. 1.
- Measuring instrument, Electrical. A. J. R. Fiego. No. 1,394,983; Oct. 25.
- Measuring instrument, Electrical. C. E. Foster. No. 1,375,837; Apr. 26; v. 285; p. 608.
- Measuring instrument, Electrical. L. T. Wilson. No. 1,396,350; Nov. 8.
- Measuring instrument transformers, Method and apparatus for calibrating. H. N. Stroh. No. 1,395,306; Nov. 1.
- Measuring liquids, Means for. C. B. Yount. No. 1,386,083; Aug. 2; v. 289; p. 24.
- Measuring-machine. C. E. Baldwin. No. 1,379,159; May 24; v. 286; p. 712.
- Measuring machine, Fluid. S. F. Mioton. No. 1,382,439; June 21; v. 287; p. 513.
- Measuring machine, Leather. D. Turner. No. 1,390,313; Sept. 13; v. 290; p. 243.
- Measuring machine, Linear. B. H. Blood. No. 1,389,341; Aug. 30; v. 289; p. 905.
- Measuring-machines, Mounting for. G. B. Kyle. No. 1,382,430; June 21; v. 287; p. 511.
- Measuring machines, Zero-setting mechanism for. J. L. Wheeler. No. 1,390,323; Sept. 13; v. 290; p. 245.
- Measuring-roller. G. C. Hosch. No. 1,390,956; Sept. 13; v. 290; p. 373.
- Measuring system. F. H. Shepard. No. 1,401,654; Dec. 27.
- Measuring the hardness of bodies, Apparatus for. A. Maire. No. 1,385,182; July 19; v. 288; p. 530.
- Measuring vessel. J. C. McCallip. No. 1,382,660; June 28; v. 287; p. 609.
- Meat and alimentary substances, Preserving. L. F. Bul-  
let. No. 1,398,836; Nov. 29.
- Meat and like provisions, Machine for stuffing. C. Merli  
and G. Bertolini. No. 1,395,967; Nov. 1.
- Meat-chopper. J. W. Brown, Jr. No. 1,397,398; Nov. 15.
- Meat-chopper. M. Oehler. No. 1,368,964; Feb. 15; v.  
283; p. 511.
- Meat-compressor. O. M. Wolff. No. 1,388,082; Aug. 16;  
v. 289; p. 544.
- Meat-crushers, Gear-housing for. C. Robbins. No.  
1,376,585; May 3; v. 286; p. 39.
- Meat Curing. F. W. Kurk. No. 1,380,068; May 31;  
v. 286; p. 959.
- Meat Curing. F. W. Kurk; No. 1,380,069; May 31;  
v. 286; p. 959.
- Meat Curing. F. W. Kurk. No. 1,380,070; May 31;  
v. 286; p. 959.
- Meat-curing injector. F. H. Good, C. E. Danielson, and  
F. Pelling. No. 1,370,788; Mar. 8; v. 284; p. 242.
- Meat-cutting machine. J. W. Clark. No. 1,384,742; July  
19; v. 288; p. 438.
- Meat-cutting machine. W. T. Creed. No. 1,391,616;  
Sept. 20; v. 290; p. 569.
- Meat-cutting machine. J. B. Raich. No. 1,398,571;  
Nov. 29.
- Meat-holder. F. J. Jarecki. No. 1,365,410; Jan. 11; v.  
282; p. 307.
- Meat, Producing powdered. J. C. MacLachlan. No.  
1,372,527; Mar. 22; v. 284; p. 695.
- Meat product, Powdered. J. C. MacLachlan. No. 1,398,464;  
Nov. 29.
- Meat-roaster. N. Mironchuk. No. 1,386,643; Aug. 9;  
v. 289; p. 205.
- Meat-slicing machine. W. E. Kidney. No. 1,378,872;  
May 24; v. 286; p. 658.
- Meat-slicing machine, Rind-removing. A. H. Heatzman.  
No. 1,376,810; May 3; v. 286; p. 82.
- Meat-slicing machines, Clamp for. J. Hopkinson. No.  
1,366,658; Jan. 25; v. 282; p. 635.
- Meat-smoking apparatus. A. M. Miller. No. 1,399,362;  
Dec. 6.
- Meat-tenderer. G. W. Becker. No. 1,371,065; Mar. 8;  
v. 284; p. 294.
- Meat-tenderer. J. E. Bridges. No. 1,400,413; Dec. 13.
- Meat-tenderer. C. O. Johnson. No. 1,391,119; Sept. 20;  
v. 290; p. 468.
- Meat-tendering machine. A. F. Combs. No. 1,384,991;  
July 19; v. 288; p. 490.
- Meat-transport. R. P. Lambert. No. 1,391,126; Sept. 20;  
v. 290; p. 470.
- Meat, vegetable, and pastry cutter. L. A. Buchtel. No.  
1,364,863; Jan. 11; v. 282; p. 201.
- Meats, Covering for. L. J. Fletcher. No. 1,394,349;  
Oct. 18.
- Mechanical attachment. A. E. Saul. No. 1,393,977;  
Oct. 18.
- Mechanical brake. A. J. Czarniecki. No. 1,366,523; Jan.  
25; v. 282; p. 608.
- Mechanical despatch apparatus. L. Bellani. No. 1,371,723;  
Mar. 15; v. 284; p. 485.
- Mechanical device. J. Isele. No. 1,396,578; Nov. 8.
- Mechanical digger. M. L. Miller. No. 1,366,741; Jan. 25;  
v. 282; p. 651.
- Mechanical directory. G. H. Keyser. No. 1,373,966; Apr.  
5; v. 285; p. 115.
- Mechanical elements, Method of and means for generating.  
H. J. Schmick. No. 1,392,528; Oct. 4.
- Mechanical furnace of the underfeed type. M. Ratel.  
No. 1,366,098; Jan. 18; v. 282; p. 480.
- Mechanical manipulating-machine. C. B. Hardy. No.  
1,391,893; Sept. 27; v. 290; p. 698.
- Mechanical motor. D. Zaiden. No. 1,373,786; Apr. 5; v.  
285; p. 78.
- Mechanical movement. E. H. Aldeborgh. No. 1,387,825;  
Aug. 16; v. 289; p. 494.
- Mechanical movement. L. Anderson. No. 1,392,389;  
Oct. 4.
- Mechanical movement. V. W. Balger and J. M. Ballou.  
No. 1,372,331; Mar. 22; v. 284; p. 658.
- Mechanical movement. Z. P. Candee. No. 1,387,101; Aug.  
9; v. 289; p. 299.
- Mechanical movement. W. F. Fraser. (Reissue.) No.  
15,190; Sept. 13; v. 290; p. 376.
- Mechanical movement. E. E. Johnson. No. 1,383,308;  
July 5; v. 288; p. 10.
- Mechanical movement. B. M. Kesot. No. 1,364,199; Jan.  
4; v. 282; p. 29.
- Mechanical movement. J. Krohn. No. 1,384,839; July  
19; v. 288; p. 458.
- Mechanical movement. J. Krohn. No. 1,392,508; Oct. 4.
- Mechanical movement. C. Kruse. No. 1,369,445; Feb.  
22; v. 283; p. 644.
- Mechanical movement. P. Palé. No. 1,378,191; May 17;  
v. 286; p. 455.
- Mechanical movement. W. J. Mackle. No. 1,369,256;  
Feb. 22; v. 283; p. 607.
- Mechanical movement. A. V. Winegarden. No. 1,381,046;  
June 7; v. 287; p. 139.
- Mechanical movements. W. A. Butchart. No. 1,367,117;  
Feb. 1; v. 283; p. 47.



- Mechanically-stoked furnace. A. Hofmann. No. 1,388,714; Aug. 23; v. 289; p. 725.
- Medal-ribbon bar. W. F. Gaunt. No. 1,380,892; June 7; v. 287; p. 109.
- Medal ribbon-bar and medal-suspender, Combined. C. F. Gaunt. No. 1,377,676; May 10; v. 286; p. 304.
- Medical apparatus. B. E. Johnston. No. 1,395,717; Oct. 25.
- Medical compound. J. H. McDavis. No. 1,389,677; Sept. 6; v. 290; p. 24.
- Medicinal compound. W. M. Habeeb. No. 1,365,241; Jan. 11; v. 282; p. 274.
- Medicinal compound. L. J. Hrisikos. No. 1,395,228; Oct. 25.
- Medicinal compound. E. Serghison. No. 1,368,974; Feb. 15; v. 283; p. 513.
- Medicinal preparations, Solution-identifying means for. M. F. Thompson. No. 1,393,253; Oct. 11.
- Medicine, Device for administering. W. J. Evans. No. 1,393,209; Oct. 11.
- Melting apparatus. R. T. Morris. No. 1,379,200; May 24; v. 286; p. 720.
- Melting-furnace. T. F. Bailey and F. T. Cope. No. 1,373,787; Apr. 5; v. 285; p. 78.
- Melting-furnace. G. H. Benjamin. No. 1,401,456; Dec. 27.
- Melting-furnace. E. F. Collins. No. 1,378,526; May 17; v. 286; p. 519.
- Melting-pot. L. W. Jones. No. 1,387,780; Aug. 16; v. 289; p. 486.
- Members, Control device for driven. N. C. Storey. No. 1,387,208; Aug. 9; v. 289; p. 318.
- Members, Method and apparatus for removing threaded. H. G. Marzyek. No. 1,380,071; May 31; v. 286; p. 959.
- Memoranda-strips or game-scores, Holder for. G. M. Minton. No. 1,388,365; Aug. 23; v. 289; p. 658.
- Memorandum device. J. B. Brady. No. 1,373,591; Apr. 5; v. 285; p. 41.
- Memorandum device. H. H. Styll. No. 1,368,859; Feb. 15; v. 283; p. 492.
- Memorandum-file. G. H. Hohnsbeen. No. 1,365,320; Jan. 11; v. 282; p. 289.
- Memorandum-paper holder. G. E. Bliss and F. Smart. No. 1,365,082; Jan. 11; v. 282; p. 243.
- Memorandum, Time-controlled desk-. J. A. Howell. No. 1,379,342; May 24; v. 286; p. 747.
- Mercurization. S. M. Jones and I. O. Harlow. No. 1,392,833; Oct. 4.
- Mercurizing-machine. J. Spitzer. No. 1,374,118; Apr. 5; v. 285; p. 143.
- Merchandise, Detachable indicator for. L. Cohen. No. 1,397,079; Nov. 15.
- Merchandise-display box. F. List. No. 1,378,363; May 17; v. 286; p. 487.
- Merchant-bars, Converting scrap metal into. J. T. Wenyon. No. 1,399,679; Dec. 6.
- Mercuric oxid, Manufacture of. G. Brusa. No. 1,397,076; Nov. 15.
- Mercury, Oxidizing. H. W. Matheson. No. 1,379,465; May 24; v. 286; p. 770.
- Mercury-separator. J. Haverly. No. 1,372,137; Mar. 22; v. 284; p. 620.
- Merry-go-round. J. L. Chinn. No. 1,395,175; Oct. 25.
- Merry-go-round. E. J. Cook. No. 1,386,553; Aug. 2; v. 289; p. 115.
- Merry-go-round. A. Lewandowski and M. Katafiasz. No. 1,393,629; Oct. 11.
- Mesh-bag. F. W. Rettenmeyer. No. 1,399,576; Dec. 6.
- Mesh-machines, Suspension-sleeve for. S. G. Mandalian. No. 1,397,288; Nov. 15.
- Mess kit. G. H. Preston. No. 1,388,853; July 5; v. 288; p. 124.
- Messing equipment. F. P. Tebbetts. No. 1,373,155; Mar. 29; v. 284; p. 861.
- Messing equipment. F. P. Tebbetts. No. 1,373,656; Mar. 29; v. 284; p. 861.
- Meta and para cresols, Separation of. C. R. Downs and R. S. Potter. No. 1,364,547; Jan. 4; v. 282; p. 97.
- Metal article and jointing the same. C. H. Huston. No. 1,369,109; Feb. 22; v. 283; p. 579.
- Metal article, Forming a pressed. H. G. Carlson. No. 1,389,739; Sept. 6; v. 290; p. 36.
- Metal article, Protected. J. H. Young. No. 1,366,999; Feb. 1; v. 283; p. 24.
- Metal articles, Apparatus for pickling. H. S. Marsh and R. S. Cochran. No. 1,392,781; Oct. 4.
- Metal articles, Forming. E. J. Paque. No. 1,396,281; Nov. 8.
- Metal articles, Mechanism for treating. W. H. Needham. No. 1,383,418; July 5; v. 288; p. 33.
- Metal articles, or objects, Depositing metallic coating on various. F. W. Haines and F. L. Sorensen. No. 1,397,514; Nov. 22.
- Metal articles, Pickling. H. S. Marsh and R. S. Cochran. No. 1,392,780; Oct. 4.
- Metal band. A. E. Maskrey. No. 1,389,208; Aug. 30; v. 289; p. 878.
- Metal bars and the like, Machine for bending. K. G. M. Runbäck. No. 1,385,278; July 19; v. 288; p. 548.
- Metal bars, Apparatus for twisting. W. Stubbs. No. 1,395,617; Nov. 1.
- Metal bars or other metal articles, Dipping and quenching arrangement for. J. R. C. August. No. 1,366,152; Jan. 18; v. 282; p. 491.
- Metal bearing. J. G. Kelly, A. L. Pringle, and H. Hall. No. 1,376,339; Apr. 26; v. 285; p. 705.
- Metal bearing, &c., Self-lubricating. G. G. Dower. No. 1,390,197; Sept. 6; v. 290; p. 128.
- Metal blanks, Machine for forging articles from. E. J. Paque. No. 1,386,726; Aug. 9; v. 289; p. 222.
- Metal-coating composition. T. J. Ethridge. No. 1,379,542; May 24; v. 286; p. 785.
- Metal-coating machine. J. Monto and A. R. Curtis. No. 1,383,555; July 5; v. 288; p. 61.
- Metal-coating metallic articles. E. S. Mowry. No. 1,397,175; Nov. 15.
- Metal container. H. P. Geisler. No. 1,398,261; Nov. 29.
- Metal containers, Reinforcing-band for. A. J. Bentley. No. 1,385,602; July 26; v. 288; p. 691.
- Metal cups, Method and apparatus for casting. D. Pepper. No. 1,387,864; Aug. 16; v. 289; p. 502.
- Metal-cutting apparatus. L. A. Crandall. No. 1,370,882; Mar. 8; v. 284; p. 259.
- Metal-cutting compounds and preparing the same, Base for. G. W. Pressell. No. 1,367,428; Feb. 1; v. 283; p. 109.
- Metal-cutting machines, Frame for. H. B. Kraut. No. 1,389,879; Sept. 6; v. 290; p. 64.
- Metal-cutting tool. J. B. Rennie. No. 1,397,983; Nov. 22.
- Metal-cutting tool. G. A. Schipper. No. 1,368,457; Feb. 15; v. 283; p. 413.
- Metal cyanid, Manufacture of alkali. F. J. Metzger. No. 1,388,586; Aug. 23; v. 289; p. 700.
- Metal-drill. H. Saucke. No. 1,394,865; Oct. 25.
- Metal elements, Method and apparatus for forming and assembling. R. S. Smith. No. 1,397,020; Nov. 15.
- Metal-extrusion apparatus. H. C. Root. No. 1,377,094; May 3; v. 286; p. 136.
- Metal-extrusion press. F. G. Schranz. No. 1,393,579; Oct. 11.
- Metal fabric and making same, Expanded-. E. T. Redding. No. 1,370,362; Mar. 1; v. 284; p. 115.
- Metal, Fastening non-metallic elements to. C. F. Dieckmann. No. 1,377,671; May 10; v. 286; p. 303.
- Metal-founders' use and composition of matter for making same, Mold for. H. G. Weidenthal. No. 1,401,215; Dec. 27.
- Metal frame construction. W. M. Thomas. No. 1,397,746; Nov. 22.
- Metal, Hardening. H. A. Lomax. No. 1,374,509; Apr. 12; v. 285; p. 260.
- Metal in the formation of cast-iron pipe, Means for pouring. J. R. McWane. No. 1,386,268; Aug. 2; v. 289; p. 61.
- Metal, Machine for automatically edging, perforating, and cutting off strips of. C. A. Eligh. No. 1,379,005; May 24; v. 286; p. 683.
- Metal, Manufacture of open-hearth. L. B. Lindemuth. No. 1,385,562; July 26; v. 288; p. 683.
- Metal-melting pot. T. Van Aller. No. 1,394,954; Oct. 25.
- Metal, Method of and apparatus for treating. H. D. Swift. No. 1,387,023; Aug. 9; v. 289; p. 283.
- Metal nitrogen-containing compounds augmented by gaseous catalysts, Making. J. H. Reid. No. 1,388,603; Aug. 23; v. 289; p. 704.
- Metal, Obtaining a continuous flow of SO<sub>2</sub> from white. W. H. Howard. No. 1,377,013; May 3; v. 286; p. 121.
- Metal or like material, Connecting two pieces of. W. A. Zeidler. No. 1,366,148; Jan. 18; v. 282; p. 490.
- Metal ornament. R. C. Bangs. No. 1,366,153; Jan. 18; v. 282; p. 491.
- Metal parts, Joining. H. P. Macdonald and W. S. Thomson. No. 1,388,657; Aug. 23; v. 289; p. 714.
- Metal-plate opener. W. L. Jenkins. No. 1,368,223; Feb. 8; v. 283; p. 319.
- Metal plate structure. W. L. Cole. No. 1,370,288; Mar. 1; v. 284; p. 101.
- Metal plugs, Making. J. Halbritter. No. 1,386,106; Aug. 2; v. 289; p. 29.
- Metal-polish. H. Truberg. No. 1,366,977; Feb. 1; v. 283; p. 19.
- Metal propeller for aircraft. H. Leitner. No. 1,385,561; July 26; v. 288; p. 682.
- Metal, Protecting sparking. H. Forcellon. No. 1,396,032; Nov. 8.
- Metal punching and bending machine. G. F. Reznor. No. 1,374,324; Apr. 12; v. 285; p. 223.
- Metal pyrophosphate casein compound colloiddally soluble in dilute alkaline solutions. A. Frey. No. 1,381,295; June 14; v. 287; p. 237.
- Metal reinforcement, Apparatus for making flattened expanded-. E. T. Redding. No. 1,370,361; Mar. 1; v. 284; p. 115.
- Metal resistor and making same, Expanded-. H. C. Nagel. No. 1,396,871; Nov. 15.
- Metal rods, bars, and the like, Manufacture of hollow. F. Lloyd. No. 1,364,565; Jan. 4; v. 282; p. 100.
- Metal roll, Covered. J. J. Cunningham. No. 1,381,286; June 14; v. 287; p. 235.
- Metal, Rolling. H. A. Lewis. No. 1,370,694; Mar. 8; v. 284; p. 224.
- Metal screen. W. W. Cole. No. 1,396,164; Nov. 8.
- Metal-section cutter. H. B. Kraut. No. 1,389,881; Sept. 6; v. 290; p. 65.
- Metal section, Rolled. A. L. Roberts. No. 1,392,800; Oct. 4.



*Alphabetical list of inventions—Continued.*

- Metal severing apparatus. L. A. Carter. No. 1,396,993; Nov. 15.
- Metal-shear. E. Rendano. No. 1,372,040; Mar. 22; v. 284; p. 602.
- Metal-sheet-pack-opening device. D. L. Maineri. No. 1,396,768; Nov. 15.
- Metal-sheet-pack-separating device. D. L. Maineri. No. 1,378,886; May 24; v. 286; p. 661.
- Metal sheets and plates, Apparatus for cleaning. A. Ziska, Jr. No. 1,386,547; Aug. 2; v. 289; p. 114.
- Metal shelving. A. F. Erickson. No. 1,386,168; Aug. 2; v. 289; p. 41.
- Metal shelving. W. N. Vance. No. 1,375,869; Apr. 26; v. 285; p. 615.
- Metal-stamping machine. W. T. Sullivan. No. 1,386,540; Aug. 2; v. 289; p. 112.
- Metal strapping and sealing containers, Means for. I. R. Pierson. No. 1,400,624; Dec. 20.
- Metal strips, Apparatus for drying. A. Sundh. No. 1,374,335; Apr. 12; v. 285; p. 226.
- Metal strips, Apparatus for winding. A. Sundh. No. 1,371,769; Mar. 15; v. 284; p. 494.
- Metal strips, Machine for treating. A. Sundh. No. 1,380,437; June 7; v. 287; p. 21.
- Metal substances, Producing. H. C. P. Weber. No. 1,373,038; Mar. 29; v. 284; p. 838.
- Metal surfaces, Finishing. A. H. Humphrey. No. 1,373,430; Apr. 5; v. 285; p. 10.
- Metal surfaces, Ornamenting and protecting. O. Hommel. No. 1,370,967; Mar. 8; v. 284; p. 275.
- Metal surfaces, Renewing and repairing worn. J. W. Phillips. No. 1,374,321; Apr. 12; v. 285; p. 223.
- Metal tie. N. O. Goldsmith. No. 1,384,316; July 12; v. 288; p. 268.
- Metal tie and rail-fastener. W. H. H. Welton. No. 1,388,226; Aug. 23; v. 289; p. 629.
- Metal tool. E. C. Lipps. No. 1,399,219; Dec. 6.
- Metal-transfer apparatus, Liquid. E. J. Reilly. No. 1,386,075; Aug. 2; v. 289; p. 23.
- Metal tubes by the self-hooping process, Apparatus for the manufacture of. E. Schneider. No. 1,391,009; Sept. 20; v. 290; p. 446.
- Metal tubes by the self-hooping process, Apparatus for the manufacture of. E. Schneider. No. 1,391,010; Sept. 20; v. 290; p. 446.
- Metal turnings, borings, &c., Melting. W. K. Booth. No. 1,380,767; June 7; v. 287; p. 84.
- Metal vehicle-wheel. L. S. Lachman. No. 1,385,380; July 26; v. 288; p. 645.
- Metal vehicle-wheel. L. S. Lachman. No. 1,393,796; Oct. 18.
- Metal wheel. G. G. Barry. No. 1,389,179; Aug. 30; v. 289; p. 873.
- Metal wheel. E. Fulda. No. 1,378,020; May 17; v. 286; p. 422.
- Metal wheel. L. S. Lachman. No. 1,378,876; May 24; v. 286; p. 659.
- Metal wheel. L. S. Lachman. No. 1,380,217; May 31; v. 286; p. 986.
- Metal wheel. L. S. Lachman. No. 1,383,824; July 5; v. 288; p. 118.
- Metal wheel. M. Lachman. No. 1,378,039; May 17; v. 296; p. 426.
- Metal wheel. M. Lachman. No. 1,378,877; May 24; v. 286; p. 659.
- Metal wheel. M. Lachman. No. 1,380,218; May 31; v. 286; p. 986.
- Metal wheel. M. Lachman. No. 1,380,219; May 31; v. 286; p. 986.
- Metal wheel. M. Lachman. No. 1,385,381; July 26; v. 288; p. 645.
- Metal wheel. M. Lachman. No. 1,391,064; Sept. 20; v. 290; p. 457.
- Metal wheel. M. Lachman. No. 1,393,795; Oct. 18.
- Metal wheel. M. Lachman. No. 1,393,797; Oct. 18.
- Metal wheel. M. Lachman. No. 1,396,443; Nov. 8.
- Metal wheel. M. Lachman. No. 1,400,173; Dec. 13.
- Metal wheel. M. and L. S. Lachman. No. 1,398,558; Nov. 29.
- Metal wheel. G. E. Worth. No. 1,388,910; Aug. 30; v. 289; p. 819.
- Metal wheel. R. Wright. No. 1,366,047; Jan. 18; v. 282; p. 471.
- Metal wheel and making the same, One-piece cast. B. L. Smith. No. 1,401,502; Dec. 27.
- Metal window-frame. I. H. Elliott. No. 1,375,139; Apr. 19; v. 285; p. 440.
- Metal-working apparatus, Transformer-secondary connection for electric. H. A. Woofter. No. 1,375,765; Apr. 26; v. 285; p. 595.
- Metal-working by electricity. C. A. Cadwell. No. 1,367,796; Feb. 8; v. 283; p. 238.
- Metal-working, Determining temperatures in. O. C. Gilbert. No. 1,379,909; May 31; v. 286; p. 927.
- Metal-working device. H. Bussel. No. 1,387,683; Aug. 16; v. 289; p. 465.
- Metal-working machine. W. H. Bradley. No. 1,390,978; Sept. 20; v. 290; p. 439.
- Metal-working machine. R. E. Flanders. No. 1,368,790; Feb. 15; v. 283; p. 478.
- Metal-working machine. O. S. Hammagren. No. 1,392,937; Oct. 11.
- Metal-working machine. J. C. Potter. No. 1,389,216; Aug. 30; v. 289; p. 880.
- Metal-working machine. J. H. Shepherd. No. 1,366,425; Jan. 25; v. 282; p. 588.
- Metal-working machine. H. H. Wanders. No. 1,373,690; Apr. 5; v. 285; p. 60.
- Metal-working machine, Sheet. H. A. and R. H. Griffiths. No. 1,382,974; June 28; v. 287; p. 668.
- Metal-working machine, Speed-changing mechanism for. C. J. Howard. No. 1,373,816; Apr. 5; v. 285; p. 85.
- Metal-working machines, Feeding mechanism for. F. W. Parsons. No. 1,389,975; Sept. 6; v. 290; p. 84.
- Metal-working machines, Heating apparatus for. C. E. F. Ahlm and T. F. Ferry. No. 1,400,846; Dec. 20.
- Metal-working machines, Mechanism for feeding blanks to. J. Kaase. No. 1,387,055; Aug. 9; v. 289; p. 290.
- Metal-working machines, Turret attachment. F. P. Lovejoy. No. 1,400,614; Dec. 20.
- Metal-working machinery, Feeding mechanism for. A. M. Sosa. No. 1,375,024; Apr. 19; v. 285; p. 422.
- Metal-working machinery, Raising and lowering means in. A. E. Robinson and H. W. Schatz. No. 1,380,021; May 31; v. 286; p. 949.
- Metal-working tool. H. R. Kennedy. No. 1,367,818; Feb. 8; v. 283; p. 242.
- Metal-working transformers, Cooling means for electric. J. H. Gravell. No. 1,382,905; June 28; v. 287; p. 655.
- Metals, Amalgamating. R. H. Stevens. No. 1,384,683; July 12; v. 288; p. 346.
- Metals and compounds from solutions, Electrolytically precipitating. G. D. Van Arsdale and C. G. Maier. No. 1,371,826; Mar. 15; v. 284; p. 505.
- Metals and their surfaces, Treatment of. B. A. Keller. No. 1,393,290; Oct. 11.
- Metals, Apparatus for making rapid tests of the hardness of. R. Guillery. No. 1,367,133; Feb. 1; v. 283; p. 50.
- Metals, Cascade extension-die for cold or hot spinning of. L. H. E. Bégot. No. 1,395,217; Oct. 25.
- Metals, Coating ferrous. C. Baskerville. No. 1,378,439; May 17; v. 286; p. 502.
- Metals from solutions, Electrode for electrolytic recovery of. U. C. Tainton. No. 1,373,273; Mar. 22; v. 284; p. 884.
- Metals from their solutions, Process of and apparatus for precipitating and recovering precious. K. B. Moore and H. R. Edmonds. No. 1,368,520; Feb. 15; v. 283; p. 425.
- Metals, Heat treatment of. A. E. Bellis. No. 1,399,044; Dec. 6.
- Metals, Improving ferrous. A. Pacz. No. 1,396,276; Nov. 8.
- Metals, Machine for casting. C. E. West. No. 1,376,661; May 3; v. 286; p. 53.
- Metals, Method and apparatus for refining. S. A. Tucker. No. 1,384,499; July 12; v. 288; p. 306.
- Metals of the rare earths, Manufacturing compounds of. O. Dietsche. No. 1,371,741; Mar. 15; v. 284; p. 489.
- Metals, Preparing finely-divided. A. McCall. No. 1,397,008; Nov. 15.
- Metals, Process and apparatus for determining the amount of carbon in ferrous. W. F. Finkl. No. 1,382,072; June 21; v. 287; p. 443.
- Metals, Process and apparatus for working. F. P. Kobert. No. 1,398,028; Nov. 22.
- Metals, Producing carbonates of the alkaline-earth. J. H. MacMahon. No. 1,378,595; May 17; v. 286; p. 532.
- Metals, Producing compound. J. C. Henderson. No. 1,392,416; Oct. 4.
- Metals, Rust-preventing mixture for. G. S. Morgan. No. 1,364,134; Jan. 4; v. 282; p. 17.
- Metals, Separating and refining. G. Haglund. No. 1,375,631; Apr. 19; v. 285; p. 537.
- Metals with albumens, Combination of. K. Kottmann. No. 1,371,380; Mar. 15; v. 284; p. 419.
- Metals with albumens, Combination of. K. Kottmann. No. 1,371,381; Mar. 15; v. 284; p. 419.
- Metals, Working. O. C. Gilbert and E. W. Adams. No. 1,384,443; July 12; v. 288; p. 296.
- Metaled-end concrete pipe. C. Meriwether. No. 1,396,135; Nov. 8.
- Metallic and concrete floor and ceiling construction, Combined. W. Goldie. No. 1,375,288; Apr. 19; v. 285; p. 473.
- Metallic and other flexible tubing, Connection of. C. R. Weil. No. 1,367,932; Feb. 8; v. 283; p. 263.
- Metallic article. C. L. Gebauer. No. 1,395,270; Nov. 1.
- Metallic articles, Box for heat-treating. C. B. Callomon. No. 1,387,236; Aug. 9; v. 289; p. 323.
- Metallic baths, Preparing ferric articles for. J. H. Maddy. No. 1,379,998; May 31; v. 286; p. 945.
- Metallic boxes, Machine for covering. A. A. Thomas. No. 1,377,231; May 10; v. 286; p. 218.
- Metallic boxes, Machine for covering. A. A. Thomas. No. 1,377,232; May 10; v. 286; p. 219.
- Metallic constituents from a mixture thereof, Recovering. G. W. Mullen. No. 1,377,217; May 10; v. 286; p. 216.
- Metallic container. M. T. Bentley. No. 1,367,683; Feb. 8; v. 283; p. 216.
- Metallic containers, Removable closure for. C. T. Draper. No. 1,381,704; June 14; v. 287; p. 314.
- Metallic halids, Making. C. M. Alexander. No. 1,366,626; Jan. 25; v. 282; p. 629.



- Metallic leaf, Device for applying. L. M. Harwood. No. 1,373,424; Apr. 5; v. 285; p. 8.
- Metallic members together, Securing. O. B. Moorhead. No. 1,379,036; May 24; v. 286; p. 689.
- Metallic seal. W. J. Kelly. No. 1,397,101; Nov. 15.
- Metallic sheets or foils, Production of thin. T. A. Edison. No. 1,379,089; May 24; v. 286; p. 699.
- Metallic tie. C. Paff. No. 1,389,069; Aug. 30; v. 289; p. 851.
- Metallic wheel. R. E. Dunham. No. 1,386,167; Aug. 2; v. 289; p. 41.
- Metallic wiper. J. Mellor. No. 1,381,323; June 14; v. 287; p. 242.
- Metallurgical furnace. D. Baird. No. 1,375,346; Apr. 19; v. 285; p. 483.
- Metallurgical furnace. F. C. Curtis. No. 1,376,680; May 3; v. 286; p. 56.
- Metallurgical furnace. J. W. Griswold and H. O. Loebell. No. 1,375,754; Apr. 26; v. 285; p. 593.
- Metallurgical furnace. B. Talbot. No. 1,383,444; July 5; v. 288; p. 39.
- Metallurgical process. J. W. Bass. No. 1,386,226; Aug. 2; v. 289; p. 53.
- Metallurgical process. R. H. Bradford. No. 1,368,885; Feb. 15; v. 283; p. 496.
- Metallurgical process. J. T. Jones. No. 1,379,023; May 24; v. 286; p. 687.
- Meter. *See*—
- |                                  |                              |
|----------------------------------|------------------------------|
| Electric meter.                  | Motor-meter.                 |
| Flow-meter.                      | Photographic exposure-meter. |
| Fluid-meter.                     |                              |
| Gas-meter.                       | Ribbon-meter.                |
| Integrating heat-quantity meter. | Tire-mold.                   |
| Liquid-meter.                    | Torsion-meter.               |
|                                  | Water-meter.                 |
- Meter. J. W. Bickel. No. 1,391,093; Sept. 20; v. 290; p. 463.
- Meter. W. T. Clark. No. 1,401,315; Dec. 27.
- Meter. F. Lambert. No. 1,377,985; May 10; v. 286; p. 364.
- Meter. J. H. Norris. No. 1,388,835; Aug. 23; v. 289; p. 749.
- Meter. J. H. Norris. (Reissue.) No. 15,232; Nov. 22.
- Meter. R. F. Schuchardt. No. 1,366,960; Feb. 1; v. 283; p. 16.
- Meter. R. F. Schuchardt. No. 1,370,161; Mar. 1; v. 284; p. 77.
- Meter. M. Smithey. (Reissue.) No. 15,036; Feb. 1; v. 283; p. 128.
- Meter. W. J. Wohlenberg. No. 1,401,299; Dec. 27.
- Meter. A. B. Wood. No. 1,383,687; July 5; v. 288; p. 89.
- Meter connection. G. Maale. No. 1,371,041; Mar. 8; v. 284; p. 289.
- Meter-testing switch. B. E. Getchell. No. 1,364,364; Jan. 4; v. 282; p. 61.
- Meter-testing switch. C. D. Platt. No. 1,365,725; Jan. 18; v. 282; p. 407.
- Meters, Mechanical cut-out for float. L. E. Baker. No. 1,393,421; Oct. 11.
- Meters, Movable element for. D. J. Angus. No. 1,370,179; Mar. 1; v. 284; p. 80.
- Meters, Pressure-controlled flow-directing means for compound. A. G. Jette and A. Johnson. No. 1,386,177; Aug. 2; v. 289; p. 43.
- Metering device. T. A. Dickinson. No. 1,396,560; Nov. 8.
- Metering-motor. H. W. Cheney. No. 1,392,115; Sept. 27; v. 290; p. 743.
- Methane, Making wood alcohol from. E. H. Riesenfeld. No. 1,379,362; May 24; v. 286; p. 751.
- Methyl formate, Making. H. F. Willkie. No. 1,400,195; Dec. 13.
- Mica-light frame. J. T. Dennis. No. 1,367,770; Feb. 8; v. 283; p. 233.
- Mica, Splitting. G. J. Bancroft. No. 1,383,370; July 5; v. 288; p. 24.
- Micrometer. I. Greenwald. No. 1,365,484; Jan. 11; v. 282; p. 321.
- Micrometer. W. T. and H. R. Slider. No. 1,391,016; Sept. 20; v. 290; p. 447.
- Micrometer. A. Tangen. No. 1,385,405; July 26; v. 288; p. 650.
- Micrometer, Extension. G. Gillespie. No. 1,388,034; Aug. 16; v. 289; p. 534.
- Micrometer-gage. E. H. Williams. No. 1,396,614; Nov. 8.
- Micrometer height-gage. L. E. Jennison. No. 1,390,618; Sept. 13; v. 290; p. 305.
- Micrometer mechanism. W. P. London. No. 1,401,621; Dec. 27.
- Micrometer-protractor. K. Berglof. No. 1,382,460; June 21; v. 287; p. 517.
- Micrometer taper-gage. C. J. Goguen and J. J. Provost. No. 1,398,296; Nov. 29.
- Micrometric indicator. F. H. Miller. No. 1,388,739; Aug. 23; v. 289; p. 730.
- Microphone. R. H. Manson. No. 1,378,708; May 17; v. 286; p. 555.
- Middlings, &c., Purifying. H. S. Jewell. No. 1,400,165; Dec. 13.
- Military equipment. A. A. Lethern. No. 1,383,315; July 5; v. 288; p. 12.
- Milk and cream testing apparatus. E. Gray and J. C. Bickley. No. 1,396,743; Nov. 15.
- Milk and milk products, Testing. J. J. Mojonier. No. 1,391,965; Sept. 27; v. 290; p. 713.
- Milk and other articles, Safety device for delivery of. R. A. Smith. No. 1,391,801; Sept. 27; v. 290; p. 679.
- Milk and other liquid substances, Device for atomizing and drying or evaporating. P. Müller. No. 1,397,445; Nov. 15.
- Milk and other liquids, Process and apparatus for sterilizing. O. Lobeck. No. 1,369,345; Feb. 22; v. 283; p. 625.
- Milk and producing same, Dehydrated. S. M. Dick. No. 1,374,555; Apr. 12; v. 285; p. 269.
- Milk, Apparatus for the treatment of. J. M. Manley. No. 1,380,230; May 31; v. 286; p. 988.
- Milk, Apparatus for treating and canning. B. E. Taylor. (Reissue.) No. 15,172; Aug. 2; v. 289; p. 123.
- Milk-boiler. J. Sloboda. No. 1,392,664; Oct. 4.
- Milk-bottle carrier. A. V. Des Moines. No. 1,375,783; Apr. 26; v. 285; p. 598.
- Milk-bottle carrier. C. B. Samuels. No. 1,377,931; May 10; v. 286; p. 354.
- Milk-bottle rack. R. V. Townsend. No. 1,372,729; Mar. 29; v. 284; p. 775.
- Milk-can. A. Davis, Jr. No. 1,370,007; Mar. 1; v. 284; p. 48.
- Milk-can. H. G. Hansen. No. 1,377,341; May 10; v. 286; p. 241.
- Milk-can spout, Safety. W. F. Sharbaugh. No. 1,393,250; Oct. 11.
- Milk-cooler. C. W. McLean. No. 1,398,787; Nov. 29.
- Milk powder to be used in cooking and baking human foods, Composition of dried modified cultured. A. R. Coulson. No. 1,374,138; Apr. 5; v. 285; p. 147.
- Milk, Preservative for. G. Grindrod. No. 1,393,282; Oct. 11.
- Milk, Producing lactic ferment culture for. P. Petersen. No. 1,401,278; Dec. 27.
- Milk-shake-powder compound. A. S. Albert. No. 1,388,084; Aug. 16; v. 289; p. 544.
- Milking apparatus. M. C. Barden. No. 1,400,512; Dec. 20.
- Milking apparatus. L. Dinesen. No. 1,371,355; Mar. 15; v. 284; p. 413.
- Milking apparatus. L. Nixon. No. 1,391,573; Sept. 20; v. 290; p. 560.
- Milking apparatus. E. J. O'Leary. No. 1,387,510; Aug. 16; v. 289; p. 430.
- Milking apparatus, Cow. W. A. Shippert. No. 1,385,500; July 26; v. 288; p. 670.
- Milking-machine. H. B. Babson. No. 1,383,369; July 5; v. 288; p. 23.
- Milking-machine. J. C. Beem. No. 1,377,546; May 10; v. 286; p. 279.
- Milking-machine. J. C. Beem. No. 1,377,547; May 10; v. 286; p. 279.
- Milking-machine. H. F. Bodeker. No. 1,396,987; Nov. 15.
- Milking-machine. R. A. Casarotti. No. 1,379,800; May 31; v. 286; p. 907.
- Milking-machine. C. Endorf, Jr. No. 1,398,368; Nov. 29.
- Milking-machine. P. B. Hewlett. No. 1,386,498; Aug. 2; v. 289; p. 103.
- Milking-machine. P. B. Hewlett. No. 1,387,713; Aug. 16; v. 289; p. 471.
- Milking-machine. P. B. Hewlett. No. 1,393,781; Oct. 18.
- Milking-machine. M. Leitch. No. 1,394,433; Oct. 18.
- Milking-machine. O. A. Moldenhauer. No. 1,366,205; Jan. 18; v. 282; p. 501.
- Milking-machine. H. W. Rintelman. No. 1,380,499; June 7; v. 287; p. 33.
- Milking-machine. N. D. Rutherford. No. 1,391,980; Sept. 27; v. 290; p. 716.
- Milking-machine installation. J. S. Read. No. 1,385,751; July 26; v. 288; p. 721.
- Milking-machine, Portable. A. Ekern and R. A. Tanner. No. 1,377,244; May 10; v. 286; p. 221.
- Milking-machine pulsator. J. L. Hulbert. No. 1,392,570; Oct. 4.
- Milking-machine pulsator. R. Maes. No. 1,384,266; July 12; v. 288; p. 258.
- Milking-machine, Pulsator for. J. G. G. Eklundh. No. 1,386,246; Aug. 2; v. 289; p. 57.
- Milking-machine system. H. McCornack. No. 1,393,387; Oct. 11.
- Milking-machine teat-cup. J. H. Davies. No. 1,365,665; Jan. 18; v. 282; p. 396.
- Milking-machines, Automatic stop for. E. D. Holmes. No. 1,385,049; July 19; v. 288; p. 501.
- Milking-machines, Claw structure for. H. C. Oden. No. 1,385,577; July 26; v. 288; p. 686.
- Milking-machines, Pulsator for. W. A. Blackmore. No. 1,400,792; Dec. 20.
- Milking-machines, Pulsator for. A. D. Ellington. No. 1,381,111; June 14; v. 287; p. 203.
- Milking-machines, Teat-cup for. B. A. Knowles. No. 1,378,683; May 17; v. 286; p. 550.
- Milking machinery. S. H. Hall. No. 1,398,230; Nov. 29.
- Milking-stool and pail-holder, Combination. O. A. Stromwall. No. 1,376,050; Apr. 26; v. 285; p. 650.



*Alphabetical list of inventions—Continued.*

- Mill: See—  
 Ball-mill.  
 Band-mill.  
 Cane-mill.  
 Cane-sugar mill.  
 Comminuting-mill.  
 Crushing-mill.  
 Feed-mill.  
 Grinding-mill.  
 Nut-mill.  
 Ore-grinding mill.  
 Mill, Grinding-. H. F. Winslow. No. 1,396,152; Nov. 8.  
 Mill plate, Attrition-. J. J. Czarev. No. 1,368,609; Feb. 15; v. 283; p. 443.  
 Mill standard or jack, Adjustable. J. A. Telmosse, Jr. No. 1,373,276; Mar. 29; v. 284; p. 885.  
 Mills, Billet-manipulator for rolling-. E. Thomas. No. 1,376,300; Apr. 26; v. 285; p. 698.  
 Mills, Cap construction for sugar-. G. Engel, Sr. No. 1,383,539; July 5; v. 288; p. 58.  
 Mills, Discharge-spout for ball or tube. N. L. Hall. No. 1,369,653; Feb. 22; v. 283; p. 685.  
 Mills, Drive mechanism for. T. C. Campbell. No. 1,384,741; July 19; v. 288; p. 438.  
 Mills, Fan for textile-. J. D. Turner. No. 1,392,029; Sept. 27; v. 290; p. 727.  
 Mills, Grinding-plate for attrition-. G. Wolff. No. 1,400,123; Dec. 13.  
 Mills, Metal-guide for rolling-. W. A. Robbins. No. 1,385,338; July 19; v. 288; p. 559.  
 Mills, Sectional lining construction for. B. A. Mitchell and F. G. Janney. No. 1,370,699; Mar. 8; v. 284; p. 225.  
 Milling and slotting machine, Rotary. O. A. Smith. No. 1,374,962; Apr. 19; v. 285; p. 409.  
 Milling-cutter. A. Brasen. No. 1,381,059; June 7; v. 287; p. 142.  
 Milling-cutter. E. A. Cowles. No. 1,391,097; Sept. 20; v. 290; p. 464.  
 Milling-cutter. A. N. Goddard. No. 1,365,908; Jan. 18; v. 282; p. 444.  
 Milling-cutter. R. T. Pollock. No. 1,385,750; July 26; v. 288; p. 721.  
 Milling-cutter. F. Wiard. No. 1,397,119; Nov. 15.  
 Milling-fixture. E. Ibach. No. 1,371,374; Mar. 15; v. 284; p. 417.  
 Milling-head for shapers, Detachable. H. F. Fischer. No. 1,364,925; Jan. 11; v. 282; p. 213.  
 Milling-machine. L. H. Blood. No. 1,371,772; Mar. 15; v. 284; p. 494.  
 Milling-machine. C. Gabrielson. No. 1,369,416; Feb. 22; v. 283; p. 638.  
 Milling-machine. R. L. Hibbard. No. 1,378,865; May 24; v. 286; p. 657.  
 Milling-machine. G. Hunziker. No. 1,364,933; Jan. 11; v. 282; p. 215.  
 Milling-machine. W. J. Terry. No. 1,397,709; Nov. 22.  
 Milling-machine. G. T. Trundle, Jr. No. 1,401,378; Dec. 27.  
 Milling-machine. H. H. Wanders. No. 1,395,373; Nov. 1.  
 Milling-machine attachment, Vertical-. H. E. Keyes. No. 1,394,843; Oct. 25.  
 Milling-machine, Universal duplex. F. M. Davis. No. 1,376,861; May 3; v. 286; p. 92.  
 Milling-machines, Adjustable wrench for. J. Payuckeck. No. 1,392,025; Sept. 27; v. 290; p. 726.  
 Milling-machines, Drilling attachment for. J. V. Nelson. No. 1,397,696; Nov. 22.  
 Milling-machines, Gear-cutting attachment for. M. Fodge. No. 1,377,330; May 10; v. 286; p. 238.  
 Milling-machines, Master-pulsator for. M. Leitch. No. 1,378,881; May 24; v. 286; p. 660.  
 Milling-machines, Nut-keeper for. W. R. Durham. No. 1,392,681; Oct. 4.  
 Milling-machines, Profiling attachment for. C. W. Lang. No. 1,400,961; Dec. 20.  
 Millinery-work, Steamer device for. M. Bassett. No. 1,373,938; Apr. 5; v. 285; p. 109.  
 Mine-car wheel. F. E. Johnson. No. 1,383,309; July 5; v. 288; p. 10.  
 Mine-door for locomotives, Self-operating. P. J. Stanton. No. 1,374,478; Apr. 12; v. 285; p. 254.  
 Mine-door-operating mechanism. G. Boggio. No. 1,376,248; Apr. 26; v. 285; p. 687.  
 Mine-drill. G. Juresisin. No. 1,374,744; Apr. 12; v. 285; p. 305.  
 Mine-elevators, Safety device for. J. S. Barnette, Jr. No. 1,398,216; Nov. 22.  
 Mine-boists, Gravity-car control for. D. F. Lepley. No. 1,379,870; May 31; v. 286; p. 921.  
 Mine, Hydrostatic. C. T. Minkler. No. 1,368,569; Feb. 15; v. 283; p. 435.  
 Mine-props, &c., Device for withdrawing. W. Temple. No. 1,399,279; Dec. 6.  
 Mine-skip. D. F. Lepley. No. 1,379,869; May 31; v. 286; p. 920.  
 Mine, Submarine. T. J. Cahill. No. 1,381,792; June 14; v. 287; p. 331.  
 Mine-switch. L. Petroff. No. 1,373,147; Mar. 29; v. 284; p. 859.  
 Mine waste by means of the heat of dump-heaps, Method of and apparatus for utilizing. W. Ostwald. No. 1,369,350; Feb. 22; v. 283; p. 626.  
 Pulverizer-mill.  
 Roller-mill.  
 Rolling-mill.  
 Sugar-cane mill.  
 Tire-rolling mill.  
 Tube-mill.  
 Universal mill.  
 Wheel-rolling mill.  
 Windmill.  
 Mines, Air-shaft for. A. S. Richardson. No. 1,381,017; June 7; v. 287; p. 133.  
 Mines, Electrical firing of explosive. J. L. V. da Cruz. No. 1,364,615; Jan. 4; v. 282; p. 109.  
 Mines, Method and mechanism for exploding submarine. H. Maxim. No. 1,382,374; June 21; v. 287; p. 500.  
 Mines, Ventilating signal appliance for. J. F. Gamille. No. 1,395,954; Nov. 1.  
 Miner's bit. H. J. Albers. No. 1,371,137; Mar. 8; v. 284; p. 308.  
 Miner's breastplate. W. H. Davis. No. 1,383,909; July 5; v. 288; p. 134.  
 Miners' caps, Lamp-supporting attachment for. W. Israel. No. 1,383,721; July 5; v. 288; p. 97.  
 Miner's drill. S. T. Skeen. No. 1,386,434; Aug. 2; v. 289; p. 92.  
 Mining and loading machine. N. D. Levin. No. 1,378,360; May 17; v. 286; p. 487.  
 Mining and loading mechanism. N. D. Levin. No. 1,378,361; May 17; v. 286; p. 487.  
 Mining apparatus. N. D. Levin. No. 1,377,842; May 10; v. 286; p. 337.  
 Mining apparatus. N. D. Levin. No. 1,378,359; May 17; v. 286; p. 486.  
 Mining apparatus. N. D. Levin. No. 1,378,362; May 17; v. 286; p. 487.  
 Mining-drill device. L. F. Verdy. No. 1,383,041; June 28; v. 287; p. 681.  
 Mining-machine. A. Ball. No. 1,365,881; Jan. 18; v. 282; p. 439.  
 Mining-machine. C. E. Davis. No. 1,399,380; Dec. 6.  
 Mining-machine. M. P. Holmes. No. 1,377,132; May 3; v. 286; p. 143.  
 Mining-machine. M. P. Holmes. No. 1,378,813; May 17; v. 286; p. 574.  
 Mining-machine. M. P. Holmes. No. 1,395,996; Nov. 1.  
 Mining-machine. N. D. Levin. No. 1,371,314; Mar. 15; v. 284; p. 405.  
 Mining-machine. N. D. Levin. No. 1,395,647; Nov. 1.  
 Mining-machine. C. S. Oldroyd. No. 1,365,598; Jan. 11; v. 282; p. 344.  
 Mining-machine. R. C. Osgood. No. 1,370,477; Mar. 1; v. 284; p. 137.  
 Mining-machine. C. C. Perry. No. 1,366,096; Jan. 18; v. 282; p. 480.  
 Mining-machine. F. E. Pray. No. 1,384,404; July 12; v. 288; p. 287.  
 Mining machine, Coal. J. D. Pugh. No. 1,374,525; Apr. 12; v. 285; p. 263.  
 Mining machinery. W. W. Robbins. No. 1,329,598; Oct. 4.  
 Mineral or coal separating jig. H. D. Kostenbauder. No. 1,395,716; Nov. 1.  
 Mineral substances, Flotation separation of. T. H. Palmer, H. V. Seale, and R. D. Nevett. No. 1,401,435; Dec. 27.  
 Minerals, Concentration of. C. L. Perkins. No. 1,394,640; Oct. 25.  
 Minerals, Flotation of. C. L. Perkins. No. 1,364,304; Jan. 4; v. 282; p. 51.  
 Minerals, Flotation of. C. L. Perkins. No. 1,364,305; Jan. 4; v. 282; p. 51.  
 Minerals, Flotation of. C. L. Perkins. No. 1,364,306; Jan. 4; v. 282; p. 51.  
 Minerals, Flotation of. C. L. Perkins. No. 1,364,858; Jan. 4; v. 282; p. 156.  
 Minerals, Flotation of. C. L. Perkins and R. E. Sayre. No. 1,364,307; Jan. 4; v. 282; p. 51.  
 Minerals, Flotation of. C. L. Perkins and R. E. Sayre. No. 1,364,308; Jan. 4; v. 282; p. 51.  
 Minerals, Flotation of. C. L. Perkins and R. E. Sayre. No. 1,364,859; Jan. 4; v. 282; p. 156.  
 Minerals, Flotation of. C. L. Perkins and R. E. Sayre. No. 1,370,357; Mar. 1; v. 284; p. 114.  
 Minerals, Flotation of. R. E. Sayre. No. 1,370,366; Mar. 1; v. 284; p. 116.  
 Minerals, Flotation of. R. E. Sayre. No. 1,370,367; Mar. 1; v. 284; p. 116.  
 Minerals, Flotation of. R. E. Sayre. No. 1,370,843; Mar. 8; v. 284; p. 252.  
 Mirror. C. L. Tomlinson. No. 1,372,258; Mar. 22; v. 284; p. 644.  
 Mirror and backing same. C. E. Akeley. No. 1,384,294; July 12; v. 288; p. 264.  
 Mirror and cabinet, Combined shaving-. C. Lichtenberg. No. 1,380,222; May 31; v. 286; p. 987.  
 Mirror and stand, Shaving. H. Diffany. No. 1,394,070; Oct. 18.  
 Mirror, Dental. H. S. Dolbey. No. 1,387,770; Aug. 16; v. 289; p. 483.  
 Mirror-holder. R. Martini. No. 1,395,855; Nov. 1.  
 Mirror-holder. H. W. Severance and G. F. Hemphill. No. 1,386,959; Aug. 9; v. 289; p. 270.  
 Mirror, Metal. C. A. B. Halvorson, Jr. No. 1,394,085; Oct. 18.  
 Mirror, Mouth-. R. H. Staley. No. 1,364,151; Jan. 4; v. 282; p. 20.  
 Mirror, Shaving-. H. J. King. No. 1,389,053; Aug. 30; v. 289; p. 848.  
 Mirror, Shaving-. T. S. Knap. No. 1,379,991; May 31; v. 286; p. 943.  
 Mirror-support. G. F. and W. H. Colbert. No. 1,392,481; Oct. 4.



- Mirror-support. W. C. Lee. No. 1,387,415. Aug. 9; v. 289; p. 360.
- Mirror, Vehicle. W. Knapp. No. 1,377,355; May 10; v. 286; p. 244.
- Mirrors, Backing. C. E. Akeley. No. 1,384,420; July 12; v. 288; p. 290.
- Mirrors, Device for adjustable mouth-. F. M. Dimas. No. 1,397,090; Nov. 15.
- Mirrors, Supporting-fixture for. E. J. Brody. No. 1,399,743; Dec. 13.
- Mirroroscope. C. B. Childs. No. 1,399,461; Dec. 6.
- Miscible compounds, Separating partly. A. Stevens. No. 1,394,232; Oct. 18.
- Miter-box. T. Simonsen. No. 1,373,105; Mar. 29; v. 284; p. 850.
- Miter-box. J. H. Thornton. No. 1,381,033; June 7; v. 287; p. 137.
- Mitten. O. H. Bohnert. No. 1,400,655; Dec. 20.
- Mitten, Three-finger. E. T. Baskin. No. 1,378,758; May 17; v. 286; p. 564.
- Mittens, gloves, &c., Clamping-bracelet for. E. L. Whitaker. No. 1,377,648; May 10; v. 286; p. 298.
- Mixer: See—  
   Beverage-mixer. Fuel-oil-gas mixer.  
   Concrete-mixer. Gas-mixer.  
   Drink-mixer. Gas and air mixer.  
   Dough-mixer. Material-mixer.  
   Fluid-mixer. Thermostatic water-mixer.  
   Fuel-mixer.
- Mixer. G. W. Bishop, Jr. No. 1,395,171; Oct. 25.
- Mixer. D. Klein. No. 1,401,609; Dec. 27.
- Mixer. W. H. Lyle. No. 1,370,329; Mar. 1; v. 284; p. 109.
- Mixer. G. C. Truslow. No. 1,399,590; Dec. 6.
- Mixer. N. Williams. No. 1,391,439; Sept. 20; v. 290; p. 533.
- Mixers, Cover for. B. D. Pinkney. No. 1,375,416; Apr. 19; v. 285; p. 497.
- Mixing and aerating device. G. R. Bott. No. 1,399,740; Dec. 13.
- Mixing and aerating machine. W. V. Dawkins. No. 1,384,383; July 12; v. 288; p. 282.
- Mixing apparatus. R. W. Shafer. No. 1,364,412; Jan. 4; v. 282; p. 71.
- Mixing device. A. Awisgus. No. 1,367,002; Feb. 1; v. 283; p. 24.
- Mixing device. A. L. Bartholemew. No. 1,372,589; Mar. 22; v. 284; p. 708.
- Mixing device. C. R. Jenks and R. O. Young. No. 1,400,553; Dec. 20.
- Mixing device. W. E. Jensen. No. 1,401,475; Dec. 27.
- Mixing granular substances, Apparatus for. O. Krause. No. 1,369,248; Feb. 22; v. 283; p. 606.
- Mixing, kneading, &c., Machine. C. Laurick. No. 1,393,799; Oct. 18.
- Mixing-machine. J. W. Brabant. No. 1,391,454; Sept. 20; v. 290; p. 536.
- Mixing-machine. E. S. La Croix. No. 1,379,707; May 31; v. 286; p. 890.
- Mixing-machine. H. Miscampbell. No. 1,398,238; Nov. 29.
- Mixing-machine. C. C. Mosher. No. 1,364,401; Jan. 4; v. 282; p. 69.
- Mixing-machine. F. Monroe. No. 1,365,529; Jan. 11; v. 282; p. 330.
- Mixing-machine. J. W. Schwager. No. 1,391,013; Sept. 20; v. 290; p. 446.
- Mixing-machine. T. J. Sturtevant. No. 1,393,181; Oct. 11.
- Mixing-machine. C. G. Wyatt. No. 1,373,784; Apr. 5; v. 285; p. 78.
- Mixing machine, Liquid-. E. L. Hansell. No. 1,376,273; Apr. 26; v. 285; p. 692.
- Mixing materials, Machine for. T. J. Sturtevant. No. 1,385,849; July 26; v. 288; p. 741.
- Mixing-tank. S. J. Dunkley. No. 1,374,291; Apr. 12; v. 285; p. 217.
- Mobile generator outfit. H. S. Baldwin. No. 1,380,942; June 7; v. 287; p. 118.
- Moccasin. J. B. Hadaway. No. 1,370,643; Mar. 8; v. 284; p. 214.
- Moccasin. A. F. Obie. No. 1,389,376; Aug. 30; v. 289; p. 912.
- Models, Manufacture of. R. L. B. Rathbone and C. Morton. No. 1,382,607; June 21; v. 287; p. 545.
- Modulator. F. H. Ferris. No. 1,382,493; June 21; v. 287; p. 523.
- Moist particles, Prevention of adherence of. M. F. Mangelsdorff. No. 1,400,176; Dec. 13.
- Molstener. J. M. Bousquet. No. 1,369,384; Feb. 22; v. 283; p. 632.
- Moistening device. J. A. Belt. No. 1,388,399; Aug. 23; v. 289; p. 665.
- Moistening device. C. C. Harris. No. 1,394,196; Oct. 18.
- Moistening, sealing, and stamping device. Envelop. P. M. Zenner and H. H. Williams. No. 1,384,879; July 19; v. 288; p. 466.
- Moisture, Automatic indicator of the proportion of. M. Chopin. No. 1,392,116; Sept. 27; v. 290; p. 743.
- Moisture control. H. F. Smith. No. 1,397,556; Nov. 22.
- Moisture-cup. H. Moore. No. 1,370,665; Mar. 8; v. 284; p. 218.
- Moisture-preventing composition. W. H. Brabant. No. 1,381,788; June 14; v. 287; p. 330.
- Moisture regulation. H. F. Smith. No. 1,397,555; Nov. 22.
- Moisture-tester. C. P. Deroo. No. 1,399,696; Dec. 6.
- Molasses-gate lock. H. G. Voight. No. 1,377,531; May 10; v. 286; p. 276.
- Molasses, Recovering materials from. H. de F. Olivarius. No. 1,401,433; Dec. 27.
- Mold: See—  
   Belt-vulcanizing mold. Hand-mold.  
   Candy-mold. Ingot-mold.  
   Cement-block mold. Interlocking mold.  
   Chill-mold. Low-quad mold.  
   Cigar-mold. Monument-mold.  
   Concrete-block mold. Phonograph-motor.  
   Concrete-column mold. Testing-mold.  
   Concrete-mold. Tire-mold.  
   Concrete-wall mold. Tire-vulcanizing mold.  
   Core-mold. Vulcanizing-mold.  
   Duplex mold. Waffle-mold.  
   Flask-mold. Wall-mold.  
   Fencepost-mold. Water-motor.  
   Fluid-operated motor.
- Mold. H. Barkschat. No. 1,398,412; Nov. 29.
- Mold. W. T. Bonner. No. 1,396,158; Nov. 8.
- Mold. A. J. Merle. No. 1,399,977; Dec. 13.
- Mold. W. C. Norcross. No. 1,370,550; Mar. 8; v. 284; p. 196.
- Mold. P. Persson. No. 1,365,124; Jan. 11; v. 282; p. 252.
- Mold. R. P. Zents. No. 1,391,988; Sept. 27; v. 290; p. 718.
- Mold and clamp therefor. H. V. Lough. No. 1,367,404; Feb. 1; v. 283; p. 104.
- Mold-breaking apparatus. W. K. Glennon and C. Wattleworth. No. 1,364,840; Jan. 4; v. 282; p. 153.
- Mold construction. J. A. Wildrout. No. 1,382,398; June 21; v. 287; p. 505.
- Mold filling and shaking machine. W. J. Welsh. No. 1,366,226; Jan. 18; v. 282; p. 506.
- Mold-flask. J. C. Reed. No. 1,364,207; Jan. 4; v. 282; p. 31.
- Mold for hollow bodies. F. C. Ruppel. No. 1,388,376; Aug. 23; v. 289; p. 660.
- Mold for hollow walls, Collapsible center. P. McCaffery. No. 1,387,790; Aug. 16; v. 289; p. 487.
- Mold for micarta tubes, rods, &c. W. H. Kempton. No. 1,386,003; Aug. 2; v. 289; p. 8.
- Mold-forming apparatus. H. Rau. No. 1,388,442; Aug. 23; v. 289; p. 674.
- Mold-insert-feeding mechanism. L. C. Martin. No. 1,391,334; Sept. 20; v. 290; p. 512.
- Mold-making machines, Control means for. C. G. Shaffer and G. Trefs. No. 1,379,421; May 24; v. 286; p. 762.
- Mold mixture. V. Loughheed. No. 1,380,398; June 7; v. 287; p. 14.
- Mold-opening device. E. G. Hulse. No. 1,369,435; Feb. 22; v. 283; p. 642.
- Mold-pressing machine. H. E. Pettersson. No. 1,387,942; Aug. 16; v. 289; p. 517.
- Mold-separating device. A. P. Diescher. No. 1,383,608; July 5; v. 288; p. 73.
- Mold structure. H. J. Bradt. No. 1,375,771; Apr. 26; v. 285; p. 596.
- Mold-support. J. J. Milnes, Jr. No. 1,383,837; July 5; v. 288; p. 120.
- Mold-table. W. A. Speakman and J. Fraser. No. 1,371,401; Mar. 15; v. 284; p. 423.
- Molds, Clamp for vulcanizing-. W. Vanderpool. No. 1,380,854; June 7; v. 287; p. 102.
- Molds, Clamping device for. D. J. Brophy. No. 1,395,553; Nov. 1.
- Molds, Fastening means for. G. R. Stran. No. 1,380,434; June 7; v. 287; p. 21.
- Molds for dentists' use, Forming-. G. E. Terranova. No. 1,378,064; May 17; v. 286; p. 432.
- Molds, Machine for engraving. A. A. Bush and R. H. Freitag. No. 1,385,333; July 19; v. 288; p. 559.
- Molds, Machine for making. C. B. Worth. No. 1,382,041; June 21; v. 287; p. 437.
- Molds, Machine for making stereotype-. C. N. Smith. No. 1,379,317; May 24; v. 286; p. 743.
- Molds, Making. J. T. Stoney. No. 1,371,271; Mar. 15; v. 284; p. 396.
- Molds or dies, molding or shaping parts in. M. H. Raymond. No. 1,380,250; May 31; v. 286; p. 992.
- Molded article and making same. L. H. Baekeland. No. 1,372,114; Mar. 22; v. 284; p. 616.
- Molded article in laminated form and making the same. R. P. Perry. No. 1,386,276; Aug. 2; v. 289; p. 63.
- Molded articles, Production of. T. A. Edison. No. 1,377,192; May 10; v. 286; p. 211.
- Molded articles, Production of. T. A. Edison. No. 1,377,193; May 10; v. 286; p. 211.
- Molded device. W. Soderling. No. 1,382,865; June 28; v. 287; p. 647.
- Molder's slick. L. Berberian. No. 1,369,378; Feb. 22; v. 283; p. 631.
- Moldable composite body. E. E. Novotny. No. 1,398,147; Nov. 22.
- Moldable composition and making same. E. E. Novotny. No. 1,398,143; Nov. 22.
- Molding. S. Becker. No. 1,401,577; Dec. 27.
- Molding. H. R. Duckwall. No. 1,378,664; May 17; v. 286; p. 546.



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- Molding. T. A. Edison. No. 1,369,272; Feb. 22; v. 283; p. 610.  
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Molding, Composite. W. H. Kempton. No. 1,392,173; Sept. 27; v. 290; p. 755.  
Molding, Composite. W. H. Kempton. No. 1,392,174; Sept. 27; v. 290; p. 755.  
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Molding, Covered finishing. H. D. Randall. No. 1,381,885; June 14; v. 287; p. 349.  
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Molding-flask. G. W. Cannon. No. 1,376,602; May 3; v. 286; p. 42.  
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Molding-machine. W. J. Baird. No. 1,379,328; May 24; v. 286; p. 745.  
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Molding-machine. P. W. Gates. No. 1,385,676; July 26; v. 288; p. 706.  
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Molding-machine. W. H. Nicholls. No. 1,367,079; Feb. 1; v. 283; p. 39.  
Molding-machine. E. N. Olson and S. Swanson. No. 1,388,748; July 5; v. 288; p. 102.  
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Molybdenum from molybdenite, Recovering. G. W. Sargent and J. W. Weitzkorn. No. 1,401,927; Dec. 27.  
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Money-handling machine. H. Rohwer. No. 1,390,587; Sept. 13; v. 290; p. 298.  
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Money-value indicator. H. Rohwer. No. 1,376,832; May 3; v. 286; p. 86.  
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Monkey-wrench. E. J. Evans and G. E. Hemphill. No. 1,391,179; Sept. 20; v. 290; p. 480.  
Monkey-wrench. O. R. Kirkpatrick. No. 1,364,937; Jan. 11; v. 282; p. 216.  
Monkey-wrench. W. M. Meyers. No. 1,364,577; Jan. 4; v. 282; p. 102.  
Monkey-wrench. R. J. Parsons and T. C. Jones. No. 1,369,705; Feb. 22; v. 283; p. 695.  
Monkey-wrench, Quick-adjustable. F. E. Bartz. No. 1,392,391; Oct. 4.  
Monoazo dyestuff. A. J. Field. No. 1,383,711; July 5; v. 288; p. 95.  
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Monument. R. A. Brown. No. 1,397,483; Nov. 15.  
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Mop. F. L. Cunningham. No. 1,384,555; July 12; v. 288; p. 318.  
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Mop. C. Juska. No. 1,381,879; June 14; v. 287; p. 348.  
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Mop and scrubber, Combined. G. Jaciuk. No. 1,397,584; Nov. 22.  
Mop, Auto-. W. L. Lampkin. No. 1,371,249; Mar. 15; v. 284; p. 392.  
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Mop-holder. T. Dalton. No. 1,401,051; Dec. 20.  
Mop-holder. W. P. Breneman and H. G. Rowell. No. 1,374,814; Apr. 12; v. 285; p. 318.  
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Mop, Window-. V. S. Brandes. No. 1,367,293; Feb. 1; v. 283; p. 82.  
Mop-wringer. N. Bailhache. No. 1,388,688; Aug. 23; v. 289; p. 720.  
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Mopping-machine. E. C. Perkins. No. 1,364,516; Jan. 4; v. 282; p. 91.  
Mortising-machine. W. T. S. Pate. No. 1,397,900; Nov. 22.  
Mortising-tool. A. H. Hawkinson. No. 1,401,469; Dec. 27.  
Motion and sound, Apparatus for recording. R. D. Gray. No. 1,384,612; July 12; v. 288; p. 331.  
Motion device, Intermittent-. M. L. Parret. No. 1,386,355; Aug. 2; v. 289; p. 78.  
Motion effects, Apparatus for producing illuminated. A. B. Leech. No. 1,369,751; Feb. 22; v. 283; p. 704.  
Motion, Mechanism for converting rotary into reciprocatory. R. Goldschmidt. No. 1,386,329; Aug. 2; v. 289; p. 73.  
Motion, Mechanism for transmitting. C. B. Gray. No. 1,383,619; July 5; v. 288; p. 75.  
Motion of machinery, Mechanism for reversing the direction of. H. F. H. G. Miot. No. 1,397,172; Nov. 15.  
Motion-picture advertising device, Time-controlled. H. P. Lovelace. No. 1,364,771; Jan. 4; v. 282; p. 140.  
Motion-picture machine. W. C. Plank. No. 1,366,488; Jan. 25; v. 282; p. 601.  
Motion-picture machines, Intermittent drive and framing device for. J. Darby. No. 1,398,128; Nov. 22.  
Motion, Stop-. G. M. Arragg. No. 1,374,417; Apr. 12; v. 285; p. 242.  
Motion, Stop-. S. H. Goldstein. No. 1,394,546; Oct. 25.  
Motion, Traverse-. J. Dyson. No. 1,372,408; Mar. 22; v. 284; p. 673.  
Motive fluid, Apparatus for conserving. W. B. Flanders. No. 1,399,758; Dec. 13.  
Motometer-guard. G. B. Mess. No. 1,388,190; Aug. 23; v. 289; p. 622.  
Motor: See—  
Aeronautical motor. Flying-machine motor.  
Air-draft motor. Hydraulic motor.  
Alternating-current commutator-motor. Hydrocarbon motor.  
Combustion motor. Induction motor.  
Current motor. Internal-combustion-engine motor.  
Direct-current motor. Internal-combustion motor.  
Electric motor. Mechanical motor.  
Electric starting-motor. Metering motor.  
Explosion-motor. Multiple-spring motor.  
Fluid-actuated motor. Outboard motor.  
Fluid-current motor. Plow motor.  
Fluid-pressure motor. Pneumatic motor.



*Alphabetical list of inventions—Continued.*

## Motor: See—Continued.

- Polyphase motor.  
 Portable motor.  
 Pressure-fluid motor.  
 Railway-car motor.  
 Repulsion-motor.  
 Rotary internal-combustion motor.  
 Rotary motor.  
 Rotary-valve motor.  
 Self-cooled motor.  
 Self-starting synchronous motor.  
 Sewing-machine motor.  
 Single-phase motor.  
 Motor. W. F. D. Ackermann. No. 1,382,591; June 21; v. 287; p. 542.  
 Motor. B. B. Blood. No. 1,378,211; May 17; v. 286; p. 459.  
 Motor. R. W. Borchert. No. 1,384,009; July 5; v. 288; p. 156.  
 Motor. P. C. Clark. No. 1,365,381; Jan. 11; v. 282; p. 301.  
 Motor. J. Graziano. No. 1,380,795; June 7; v. 287; p. 90.  
 Motor. A. L. Harrell. No. 1,384,256; July 12; v. 288; p. 256.  
 Motor. G. Lidseen. No. 1,367,982; Feb. 2; v. 283; p. 273.  
 Motor. C. C. Moon. No. 1,378,264; May 17; v. 286; p. 469.  
 Motor. G. Muffy. No. 1,377,723; May 10; v. 286; p. 312.  
 Motor. A. J. Pierce. No. 1,388,371; Aug. 23; v. 289; p. 659.  
 Motor. C. Savino. No. 1,375,018; Apr. 19; v. 285; p. 420.  
 Motor. W. A. Smith. No. 1,401,003; Dec. 20.  
 Motor. G. C. Trotter. No. 1,378,153; May 17; v. 286; p. 449.  
 Motor alternator, High-frequency. G. A. Johnstone. No. 1,375,393; Apr. 19; v. 285; p. 492.  
 Motor and dynamo construction. C. W. Landers. No. 1,375,161; Apr. 19; v. 285; p. 448.  
 Motor and other cycles, Combined mudguard and carrier member for use on. R. W. Smith. No. 1,398,448; Nov. 29.  
 Motor-bearing burning-in stand. H. Vatter, Jr. No. 1,386,035; Aug. 2; v. 289; p. 15.  
 Motor-block-handling device. D. H. Bishard. No. 1,365,220; Jan. 11; v. 282; p. 270.  
 Motor block-stand. J. S. Carswell and A. R. Hammond. No. 1,380,704; June 7; v. 287; p. 72.  
 Motor-boat. A. Faber. No. 1,364,923; Jan. 11; v. 282; p. 213.  
 Motor-bracket. H. Maimin. No. 1,377,016; May 3; v. 286; p. 121.  
 Motor-car signal. E. Wimp. No. 1,381,382; June 14; v. 287; p. 253.  
 Motor-cars or other engines, Apparatus for facilitating the supply of oil to engines of. W. J. Dalby. No. 1,364,726; Jan. 4; v. 282; p. 131.  
 Motor-casing-truck construction. H. J. Murray and W. S. Rugg. No. 1,386,587; Aug. 2; v. 289; p. 121.  
 Motor control. J. F. Tritle. No. 1,382,872; June 28; v. 287; p. 649.  
 Motor-control apparatus. A. J. Nicht, Jr. No. 1,399,983; Dec. 13.  
 Motor-control system. C. H. Allen. No. 1,401,387; Dec. 27.  
 Motor-control system. A. E. Boggs and A. Heckman. No. 1,381,163; June 14; v. 287; p. 213.  
 Motor-control system. A. A. Gazda. No. 1,376,426; May 3; v. 286; p. 10.  
 Motor-control system. E. A. Hanff. No. 1,367,137; Feb. 1; v. 283; p. 50.  
 Motor-control system. E. A. Hanff. No. 1,367,138; Feb. 1; v. 283; p. 51.  
 Motor-control system. A. L. Harvey. No. 1,390,552; Sept. 13; v. 290; p. 291.  
 Motor-control system. E. S. Lammers, Jr. No. 1,382,988; June 28; v. 287; p. 671.  
 Motor-control system. E. S. Lammers, Jr. No. 1,392,255; Sept. 27; v. 290; p. 772.  
 Motor-control system. H. L. Keith. No. 1,400,077; Dec. 13.  
 Motor-control system. R. H. McLain. No. 1,394,922; Oct. 25.  
 Motor-control system. F. M. Parks. No. 1,401,638; Dec. 27.  
 Motor-control system. L. J. Stephenson. No. 1,397,335; Nov. 15.  
 Motor-control system. W. Sykes. No. 1,368,369; Feb. 15; v. 283; p. 396.  
 Motor control, System of. L. J. Stephenson. No. 1,389,080; Aug. 30; v. 289; p. 853.  
 Motor control, System of. H. L. Van Valkenburg. No. 1,391,808; Sept. 27; v. 290; p. 680.  
 Motor-control system, Regenerative. S. T. Webster. No. 1,391,289; Sept. 20; v. 290; p. 503.  
 Motor-controller. T. E. Barnum. No. 1,391,295; Sept. 20; v. 287; p. 70.  
 Motor-controller. C. E. Carpenter. No. 1,378,010; May 17; v. 286; p. 421.  
 Solar motor.  
 Spring-motor.  
 Starting induction-motor.  
 Submersible motor.  
 Tide-motor.  
 Tide-power motor.  
 Traction-motor.  
 Vibrating motor.  
 Water-motor.  
 Wave-motor.  
 Wave or tide motor.  
 Weight-motor.  
 Wind-motor.  
 Motor-controller. C. W. Yerger. No. 1,380,696; June 7; v. 290; p. 504.  
 Motor-controlling mechanism, Spring-. B. S. Nickerson. No. 1,384,272; July 12; v. 288; p. 260.  
 Motor-cooling means. J. A. Ingram. No. 1,384,031; July 5; v. 288; p. 160.  
 Motor-cycle-engine. A. Garelli. No. 1,377,879; May 10; v. 286; p. 344.  
 Motor-driven surface-treating machine. A. A. Clarke. No. 1,390,501; Sept. 13; v. 290; p. 280.  
 Motor-generator system. C. L. Kennedy. No. 1,367,319; Feb. 1; v. 283; p. 87.  
 Motor-governing device. W. W. Dean. No. 1,393,433; Oct. 11.  
 Motor governor, Spring-. G. M. Willson. No. 1,378,206; May 17; v. 286; p. 458.  
 Motor-hood. H. L. Leverett. No. 1,365,837; Jan. 18; v. 282; p. 430.  
 Motor-loading machine. F. Platto. No. 1,379,039; May 24; v. 286; p. 690.  
 Motor mechanism. M. Birkigt. No. 1,386,489; Aug. 2; v. 289; p. 102.  
 Motor-meter. B. Harris. No. 1,380,955; June 7; v. 287; p. 121.  
 Motor-meter light. L. A. Thurn. No. 1,390,939; Sept. 13; v. 290; p. 369.  
 Motor-meter lock. M. L. Shipser. No. 1,378,288; May 17; v. 286; p. 474.  
 Motor-meter lock. D. E. Wilson. No. 1,379,669; May 31; v. 286; p. 883.  
 Motor-mount, Adjustable. A. A. Byerlein. No. 1,373,795; Apr. 5; v. 285; p. 80.  
 Motor-mount, Unitary. W. W. Carro. No. 1,369,748; Feb. 15; v. 283; p. 704.  
 Motor-mounting. E. Lyon and H. F. Williams. No. 1,396,966; Nov. 15.  
 Motor or pump, Rotary. E. Feuerheerd. No. 1,389,189; Aug. 30; v. 289; p. 875.  
 Motor-speed control. F. W. Adsit and B. B. Bienhoff. No. 1,367,679; Feb. 8; v. 283; p. 215.  
 Motor-spirit and burning-oil from higher-boiling petroleum, Obtaining. H. P. Chamberlain. No. 1,400,419; Dec. 13.  
 Motor-stand. R. D. Wilson. No. 1,373,927; Apr. 5; v. 285; p. 107.  
 Motor-starter. I. J. Maha. No. 1,389,522; Aug. 30; v. 289; p. 941.  
 Motor-starting apparatus. H. Guttinger. No. 1,373,558; Apr. 5; v. 285; p. 35.  
 Motor-starting switch. K. Knudsen. No. 1,364,384; Jan. 4; v. 282; p. 65.  
 Motor-starting mechanism. A. Winton. No. 1,401,747; Dec. 27.  
 Motor-support. G. F. Blume. No. 1,373,708; Apr. 5; v. 285; p. 63.  
 Motor-supporting stand. G. L. and C. D. Pierce. No. 1,370,838; Mar. 8; v. 284; p. 251.  
 Motor suspension. B. B. Neuteboom. No. 1,390,154; Sept. 6; v. 290; p. 120.  
 Motor suspension. C. L. Pearson. No. 1,373,093; Mar. 29; v. 284; p. 848.  
 Motor-support. J. H. McCormick. No. 1,397,433; Nov. 15.  
 Motor-vehicle light. M. Beach. No. 1,369,953; Mar. 1; v. 284; p. 38.  
 Motor-vehicle lock. J. R. Adams. No. 1,378,308; May 17; v. 286; p. 477.  
 Motor-vehicle lock. E. F. Cliff. No. 1,384,233; July 12; v. 288; p. 251.  
 Motor-vehicle lock. G. T. Watt. No. 1,385,030; July 19; v. 288; p. 498.  
 Motor, Water-. J. Merwitz. No. 1,364,202; Jan. 4; v. 282; p. 30.  
 Motor-wheel. M. S. Logan. No. 1,366,672; Jan. 25; v. 282; p. 638.  
 Motor-vehicle wheel. E. B. Trafton. No. 1,386,449; Aug. 8; v. 289; p. 95.  
 Motors, Attachment for. G. W. Fokken and A. Armbruster. No. 1,398,095; Nov. 22.  
 Motors, Attachment for internal-combustion. J. C. Thomas. No. 1,372,987; Mar. 29; v. 284; p. 828.  
 Motors, Balancing device for. O. O. Hult. No. 1,387,720; Aug. 16; v. 289; p. 473.  
 Motors, Balancing device for explosion or internal-combustion. O. W. Hult. No. 1,393,782; Oct. 18.  
 Motors, Big-end construction for radial. C. L. Lawrence. No. 1,398,194; Nov. 22.  
 Motors, Circuit-breaker for reversible. L. E. Samuel. No. 1,399,801; Dec. 13.  
 Motors, Connecting-rod arrangement for star-shaped. L. Seguin. No. 1,401,284; Dec. 27.  
 Motors, Connecting-rod head for rotative. L. Seguin. No. 1,401,285; Dec. 27.  
 Motors, Control for electric. O. F. Shepard. No. 1,390,259; Sept. 6; v. 290; p. 140.  
 Motors, Controlling mechanism for booster. R. M. Brown. No. 1,380,348; June 7; v. 287; p. 5.  
 Motors, Controlling system for feed-. G. H. Case. No. 1,386,159; Aug. 2; v. 289; p. 39.  
 Motors, Cylinder and piston for internal-combustion. E. H. Crossen. No. 1,371,225; Mar. 15; v. 284; p. 387.  
 Motors, Device for lifting push-rods on Ford. W. F. McCarley. No. 1,395,128; Oct. 25.  
 Motors, Elastic rod for. E. J. A. Schultz. No. 1,385,753; July 26; v. 288; p. 723.



*Alphabetical list of inventions—Continued.*

- Motors, Electric winding mechanism for spring. J. J. Phillips. No. 1,365,724; Jan. 18; v. 282; p. 407.
- Motors, Exhaust-muffler for internal-combustion. P. H. Lesser. No. 1,370,456; Mar. 1; v. 284; p. 133.
- Motors, Fuel-injector for two-stroke high-compression. L. Bally. No. 1,386,832; Aug. 9; v. 289; p. 244.
- Motors, Heating apparatus for internal-combustion. H. J. Berruet. No. 1,373,290; Mar. 29; v. 284; p. 888.
- Motors, Ignition device for internal-combustion. L. F. Hoffman. No. 1,384,321; July 12; v. 288; p. 269.
- Motors, Locking device for. W. B. Smith and D. N. Swatzell. No. 1,388,778; Aug. 23; v. 289; p. 738.
- Motors, Manifold for internal-combustion. D. S. DuBois. No. 1,393,887; Oct. 18.
- Motors, Overhead valve attachment for Ford. R. J. Barrett and G. E. Bean. No. 1,375,246; Apr. 19; v. 285; p. 464.
- Motors, Recuperative system for alternating-current commutator-. R. E. Hellmund. No. 1,374,564; Apr. 12; v. 285; p. 270.
- Motors, Rewinding apparatus for gas-machine. E. Ather-ton. No. 1,391,817; Sept. 27; v. 290; p. 682.
- Motors, Safety device for oiling systems of. E. A. Hein-lein and R. A. Stalle. No. 1,378,349; May 17; v. 286; p. 484.
- Motors, Speed-governor for electric. G. M. Johns. No. 1,390,619; Sept. 13; v. 290; p. 305.
- Motors, Speed-controlling device for. J. R. Cook. No. 1,380,134; May 31; v. 286; p. 971.
- Motors, Starting and speed-limiting device for electric. J. E. Feller. No. 1,367,592; Feb. 8; v. 283; p. 199.
- Motors, Starting-rheostat for electric. A. H. and R. A. Buckley. No. 1,368,694; Feb. 15; v. 283; p. 460.
- Motors, Stopping apparatus for alternating-current. H. F. Stratton. No. 1,364,847; Jan. 4; v. 282; p. 154.
- Motors, System and apparatus for controlling. A. K. Allison. No. 1,398,056; Nov. 22.
- Motors, Test-stand for testing starting-. J. C. Schaf, Jr., and W. J. Holliday. No. 1,401,740; Dec. 27.
- Motors, Valve structure for internal combustion. A. Win-ton. No. 1,376,060; Apr. 26; v. 285; p. 652.
- Motors, Vibration-quenching mount for internal-combus-tion. W. Noble. No. 1,388,967; Aug. 30; v. 289; p. 830.
- Motors, Winding device for spring. J. W. Jones. No. 1,394,907; Oct. 25.
- Motors, Water-cooling system for internal-combustion. D. Welge. No. 1,378,070; May 17; v. 286; p. 433.
- Motors, Winding for multiple-speed. H. Weichsel. No. 1,366,984; Feb. 1; v. 283; p. 20.
- Motorcycle. A. Burlat and A. Renaudin. No. 1,394,516; Oct. 18.
- Motorcycle. F. Evans. No. 1,369,015; Feb. 22; v. 283; p. 561.
- Motorcycle. M. Goudard and M. Mennesson. No. 1,371,783; Mar. 15; v. 284; p. 497.
- Motorcycle. G. E. Rigby. No. 1,364,314; Jan. 14; v. 282; p. 52.
- Motorcycle. G. E. Rigby. No. 1,369,356; Feb. 22; v. 283; p. 627.
- Motorcycle attachment, Wheeled. L. R. Van Hoose. No. 1,382,942; June 28; v. 287; p. 662.
- Motorcycle back-rest. W. A. Lawrence. No. 1,367,981; Feb. 8; v. 283; p. 273.
- Motorcycle-frame. G. E. Rigby. No. 1,395,358; Nov. 1.
- Motorcycle fork extension. P. C. Mellantine. No. 1,365,524; Jan. 11; v. 282; p. 329.
- Motorcycle-frame. G. E. Bradshaw. No. 1,368,541; Feb. 15; v. 283; p. 430.
- Motorcycle front wheels, Spring-mounting for. F. E. Baker and T. J. Biggs. No. 1,401,032; Dec. 20.
- Motorcycle side cars, Spring-suspension pivotal attachment for the wheels of. H. Christensen. No. 1,364,715; Jan. 4; v. 282; p. 129.
- Motorcycles, Spring-fork for the front wheels of. E. M. Borzo. No. 1,370,404; Mar. 1; v. 284; p. 123.
- Motorcycle-stand. C. J. Swenson. No. 1,382,330; June 21; v. 287; p. 491.
- Motorcycle-tender. H. J. Goodman. No. 1,383,933; July 5; v. 288; p. 140.
- Motorcycles, Attachment for. W. L. Craig. No. 1,388,803; Aug. 23; v. 289; p. 748.
- Motorcycles, Chassis for side cars of. A. S. Swan and J. A. Yeats. No. 1,388,387; Aug. 23; v. 289; p. 662.
- Motorcycles, Combined variable-speed, clutch, and free-wheel device for. A. H. Traeger. No. 1,390,065; Sept. 6; v. 290; p. 102.
- Motorcycles, Compensating spring for the front fork of. M. N. Viratelle. No. 1,397,845; Nov. 22.
- Motorcycles, Cycles, &c. Antivibration handle-bar for. R. W. Smith. No. 1,398,447; Nov. 29.
- Motorcycles, Means for securing articles to. J. F. Merkel. No. 1,400,967; Dec. 20.
- Motorcycles, Side-car attachment for. C. E. Hastings. No. 1,392,938; Oct. 11.
- Motorcycles, Spring-fork for. H. S. Yoxall and J. J. Richardson. No. 1,397,850; Nov. 22.
- Motorcycles, Wheel-mounting for. J. A. Haggerty. No. 1,375,149; Apr. 19; v. 285; p. 446.
- Motorcycles, Wind and weather screen for. A. G. Camp-bell. No. 1,387,349; Aug. 9; v. 289; p. 347.
- Motorcycles, Windshield for. S. Whitney. No. 1,369,585; Feb. 22; v. 283; p. 671.
- Mouse and rat poisoner. W. T. Vaden, Jr. No. 1,393,590; Oct. 11.
- Mousetrap. N. H. Albrecht and W. A. Baldwin. No. 1,388,786; Aug. 23; v. 289; p. 740.
- Mouse-trap. S. M. Kass. No. 1,382,425; June 21; v. 287; p. 510.
- Mouse-trap. T. E. Spencer. No. 1,391,589; Sept. 20; v. 290; p. 564.
- Mouse-trap. S. Tanski. No. 1,375,980; Apr. 26; v. 285; p. 636.
- Mounting means. W. E. Gray. No. 1,372,070; Mar. 22; v. 284; p. 608.
- Mounting, Spring-. M. Stadler. No. 1,364,329; Jan. 4; v. 282; p. 55.
- Mouth-cleaning device. J. L. Kelly. No. 1,371,790; Mar. 15; v. 284; p. 498.
- Mouthpiece for wind musical instruments. M. H. and J. Babbitt. No. 1,385,239; July 19; v. 288; p. 541.
- Mouthpiece, Telephone-transmitter. C. E. O. Olliffe. No. 1,365,268; Jan. 11; v. 282; p. 280.
- Mouth-prop. S. Risley. No. 1,401,190; Dec. 27.
- Movement, Mechanical. E. T. Condon, Jr. No. 1,391,997; Sept. 27; v. 290; p. 720.
- Movement, Mechanical. W. Moir. No. 1,387,428; Aug. 9; v. 289; p. 363.
- Movement, Mechanism for converting rotary to reciprocating. J. W. Hall. No. 1,385,002; July 19; v. 288; p. 492.
- Movement, Method of and means for regulating. J. M. Hopwood. No. 1,371,242; Mar. 15; v. 284; p. 390.
- Movements, Means for producing magnifications of minute. J. G. Stewart. No. 1,392,239; Sept. 27; v. 290; p. 768.
- Moving pictures, Light-regulator for projecting. F. W. Hochstetter. No. 1,364,278; Jan. 4; v. 282; p. 46.
- Mower. J. H. Blair. No. 1,383,066; June 28; v. 287; p. 686.
- Mower. J. G. Fahr. No. 1,399,548; Dec. 6.
- Mower. J. B. Nelson. No. 1,383,656; July 5; v. 288; p. 82.
- Mower and harvesting machine. A. E. Cook. No. 1,364,251; Jan. 4; v. 282; p. 39.
- Mower attachment, Lawn-. A. Goodfellow. No. 1,379,555; May 24; v. 286; p. 787.
- Mower, Gang lawn-. C. C. Ross. No. 1,366,947; Feb. 1; v. 283; p. 13.
- Mower, Gang lawn-. C. C. Ross. No. 1,366,948; Feb. 1; v. 283; p. 14.
- Mower, Gang lawn-. C. C. Worthington. No. 1,398,481; Nov. 29.
- Mower, Grass-. R. Dvorak. No. 1,365,229; Jan. 11; v. 282; p. 272.
- Mower-guard. J. R. Edgar. No. 1,374,001; Apr. 5; v. 285; p. 122.
- Mower grinder, Lawn-. R. H. Madsen. No. 1,398,906; Nov. 29.
- Mower, Hand clipper-. A. Caesar. No. 1,398,672; Nov. 29.
- Mower, Lawn-. R. T. Halliday. No. 1,379,559; May 24; v. 286; p. 788.
- Mower, Lawn-. C. F. Jenkins. No. 1,401,156; Dec. 27.
- Mower, Lawn-. R. R. Kitchel. No. 1,389,249; Aug. 30; v. 289; p. 887.
- Mower, Lawn-. W. H. Phillips. 1,370,358; Mar. 1; v. 284; p. 114.
- Mower, Lawn-. L. C. W. Pribnow. No. 1,394,351; Oct. 18.
- Mower, Lawn-. H. L. Richendifer. No. 1,382,441; June 21; v. 287; p. 513.
- Mower, Lawn-. F. M. Sherman. No. 1,389,537; Aug. 30; v. 289; p. 944.
- Mower, Lawn-. W. F. Welch. No. 1,366,440; Jan. 25; v. 282; p. 591.
- Mower, Lawn-. G. Wood. No. 1,377,953; May 10; v. 286; p. 358.
- Mower, Power-driven lawn-. E. E. Yost. No. 1,387,578; Aug. 16; v. 289; p. 444.
- Mower wheels, Non-skid and traction band for lawn-. L. B. De Hymel. No. 1,382,067; June 21; v. 287; p. 442.
- Mowers, Grass elevator and carrier attachment for lawn-. G. J. W. Meyers. No. 1,369,253; Feb. 22; v. 283; p. 608.
- Mowers, Grinder for lawn-. G. W. Fernside. No. 1,383,091; June 28; v. 287; p. 691.
- Mowers, Guard-shoe for. A. Laurie. No. 1,391,128; Sept. 20; v. 290; p. 470.
- Mowers, Sharpening device for lawn-. W. G. Hill. No. 1,396,430; Nov. 8.
- Mowers, Sickle-bearing for. J. L. Tandy. No. 1,381,518; June 14; v. 287; p. 278.
- Mowing-machine. F. R. Wilson and H. O. Ringo. No. 1,384,288; July 12; v. 288; p. 263.
- Mowing-machine attachment. G. Johnson. No. 1,389,554; Aug. 30; v. 289; p. 947.
- Mowing-machines, Attachment for. W. Dyer. No. 1,390,890; Sept. 13; v. 290; p. 359.
- Mowing-machines, Cutting mechanism for. W. E. Smith. No. 1,364,414; Jan. 4; v. 282; p. 71.
- Mowing-machines, harvesters, reaping machines, and binders, Cutting mechanism for. A. Glushikoff. No. 1,392,010; Sept. 27; v. 290; p. 723.



- Mowing-machines, Reel attachment for. V. L. Fisher. No. 1,376,268; Apr. 26; v. 285; p. 691.
- Mucilage-stand. J. T. Riley. No. 1,380,594; June 7; v. 287; p. 51.
- Mud-guard. J. Menu. No. 1,366,408; Jan. 25; v. 282; p. 684.
- Mud-guard. F. W. Simons, Jr. No. 1,389,014; Aug. 30; v. 289; p. 840.
- Mud-guard. A. Ziska, Jr. No. 1,373,990; Apr. 5; v. 285; p. 120.
- Mud-hook. M. H. Frank. No. 1,399,952; Dec. 13.
- Mud-hook. W. G. Pfeiffer. No. 1,395,868; Nov. 1.
- Mud-guards, Detachable lining for. R. E. Mosher. No. 1,390,634; Sept. 13; v. 290; p. 309.
- Muffin-forming machine. N. M. Lesiuk. No. 1,369,447; Feb. 22; v. 283; p. 644.
- Muffler. B. Carlen. No. 1,366,632; Jan. 25; v. 282; p. 630.
- Muffler. H. F. Dubben and F. B. Easton. No. 1,388,554; Aug. 23; v. 289; p. 694.
- Muffler. H. C. and E. E. Emmons. No. 1,400,350; Dec. 13.
- Muffler. W. Kraive. No. 1,396,583; Nov. 8.
- Muffler. R. Libenschek. No. 1,395,920; Nov. 1.
- Muffler. P. O'Sullivan. No. 1,378,555; May 17; v. 286; p. 524.
- Muffler. D. Reid. No. 1,387,614; Aug. 16; v. 289; p. 451.
- Muffler. F. B. Richmond. No. 1,365,852; Jan. 18; v. 282; p. 433.
- Muffler-burner. R. L. Strobel. No. 1,376,979; May 3; v. 286; p. 114.
- Muffler, Exhaust-. R. J. Mackenzie and L. L. Haas. No. 1,376,957; May 3; v. 280; p. 110.
- Muffle-lee construction. F. L. Geer. No. 1,385,868; July 26; v. 288; p. 745.
- Mulsh. C. F. Eckart. No. 1,372,995; Mar. 29; v. 284; p. 830.
- Mulsh. C. F. Eckart. No. 1,372,996; Mar. 29; v. 284; p. 830.
- Mulsh. C. F. Eckart. No. 1,372,999; Mar. 29; v. 284; p. 830.
- Mulsh and making same. C. F. Eckart. No. 1,396,269; Nov. 8.
- Multicolor-press. L. Friedman. No. 1,396,827; Nov. 15.
- Multiplicity forms or blanks, Producing. G. A. Mayer and H. E. Murray. No. 1,385,569; July 26; v. 288; p. 684.
- Multicylinder explosive-engine. E. B. Kramer. No. 1,373,510; Apr. 5; v. 285; p. 26.
- Multiphraphs, Perforating and cutting device for. W. T. Collins. No. 1,374,062; Apr. 5; v. 285; p. 132.
- Multiple adjustable wrench. O. Yguain. No. 1,368,089; Feb. 8; v. 283; p. 293.
- Multiple-arm reproducer mechanism. F. O. Farwell. No. 1,371,614; Mar. 15; v. 284; p. 464.
- Multiple expander. T. J. Dixon. No. 1,379,087; May 24; v. 286; p. 698.
- Multiple-gun-firing apparatus or bomb. G. A. Ekman. No. 1,385,120; July 19; v. 288; p. 517.
- Multiple-sash-operating mechanism. C. Rupp. No. 1,380,309; May 31; v. 286; p. 1003.
- Multiple-screw jack. J. Coryell. No. 1,384,430; July 12; v. 288; p. 292.
- Multiple-spindle double-seamer. J. A. Gray. No. 1,373,001; Mar. 29; v. 284; p. 831.
- Multiple-spring motor. I. F. Burton. No. 1,384,426; July 12; v. 288; p. 291.
- Multiple-stage rotary drill. F. L. O. Wadsworth. No. 1,399,831; Dec. 13.
- Multiple-tread wheel. E. A. Bansbach. No. 1,381,534; June 14; v. 287; p. 281.
- Multiple-unit electric heater. W. A. Kennedy and A. J. Mottlau. No. 1,395,584; Nov. 1.
- Multiple wrench. T. Zukowski. No. 1,389,417; Aug. 30; v. 289; p. 920.
- Multiplier, Frequency-. I. Shoenberg. No. 1,372,202; Mar. 22; v. 284; p. 633.
- Multiplier, Frequency-. I. Shoenberg. No. 1,372,203; Mar. 22; v. 284; p. 633.
- Multistage axial-flow steam or gas turbine. P. Spiess. No. 1,389,910; Sept. 6; v. 290; p. 71.
- Murcury ointment. J. P. Shepherd. No. 1,384,863; July 19; v. 288; p. 463.
- Music and manuscript holder. F. Civil. No. 1,368,897; Feb. 15; v. 283; p. 499.
- Music, Apparatus for producing color-. A. B. Hector. No. 1,388,706; Aug. 23; v. 289; p. 723.
- Music, Arranging. C. F. Fredrickson. No. 1,370,202; Mar. 1; v. 284; p. 84.
- Music-case. E. L. O'Donnell. No. 1,391,491; Sept. 20; v. 290; p. 543.
- Music-holder for band use. T. P. Harger, Jr. No. 1,400,217; Dec. 13.
- Music-leaf turner. M. A. Walden. No. 1,384,364; July 12; v. 288; p. 278.
- Music-lyre holder. W. C. Reid. No. 1,376,780; May 3; v. 286; p. 75.
- Music, Perforated and other sheet-. T. McKee. No. 1,398,107; Nov. 22.
- Music, Recording. C. F. Stoddard. No. 1,367,634; Feb. 8; v. 283; p. 206.
- Music-recording mechanism, Indicating device usable with. J. C. Hagey and A. Swensen. No. 1,329,640; Oct. 4.
- Music-roll container. W. L. Buedingen. No. 1,385,199; July 19; v. 288; p. 533.
- Music-roll gearing-shifter. H. E. Tower. No. 1,373,154; Mar. 29; v. 284; p. 861.
- Music-rolls, &c., Container for. C. S. Burton. No. 1,399,541; Dec. 6.
- Music-rolls, Container for. C. S. Burton. No. 1,388,092; Aug. 16; v. 289; p. 546.
- Music-rolls, Container for. C. S. Burton. No. 1,388,093; Aug. 16; v. 289; p. 546.
- Music-rolls, Machine for making. E. W. Myers. No. 1,366,017; Jan. 18; v. 282; p. 465.
- Music-rolls, Machine for marking perforated. P. J. Meahl. No. 1,385,185; July 19; v. 288; p. 531.
- Music-rolls, Repair outfit for. J. S. Ruhlman. No. 1,373,978; Apr. 5; v. 285; p. 118.
- Music-satchel. F. C. Kranz. No. 1,373,136; Mar. 29; v. 284; p. 857.
- Music-sheet advertising device. C. H. Maier. No. 1,390,535; Sept. 13; v. 290; p. 288.
- Music-sheet guide. S. R. Harcourt. No. 1,399,114; Dec. 6.
- Music-sheet-guiding mechanism. C. E. Peterson. No. 1,389,693; Sept. 6; v. 290; p. 26.
- Music-sheet, Perforated. C. F. Stoddard. No. 1,367,633; Feb. 8; v. 283; p. 206.
- Music-sheet-tracking device. N. C. Ferris. No. 1,365,312; Jan. 11; v. 282; p. 288.
- Music-staff. J. K. Kirn. No. 1,373,250; Mar. 29; v. 284; p. 880.
- Music-stand. A. Wolff. No. 1,364,169; Jan. 4; v. 282; p. 24.
- Music-stand. A. Zondlo. No. 1,368,317; Feb. 15; v. 283; p. 385.
- Music, Strip for correcting. J. A. Spencer. No. 1,393,710; Oct. 11.
- Music turner, Sheet-. G. L. Geer. No. 1,374,147; Apr. 5; v. 285; p. 149.
- Music turner and carrier. W. L. Stevens. No. 1,397,885; Nov. 22.
- Musical instrument. G. Danielson. No. 1,375,952; Apr. 26; v. 285; p. 631.
- Musical instrument. I. Gračanin. No. 1,382,076; June 21; v. 287; p. 444.
- Musical instrument. J. S. Maxwell. No. 1,371,636; Mar. 15; v. 284; p. 468.
- Musical instrument. W. J. Maxwell, Jr. No. 1,384,843; July 19; v. 288; p. 459.
- Musical instrument. W. C. Roberts. No. 1,397,019; Nov. 15.
- Musical instrument, Stringed. G. Cloetens. No. 1,392,245; Sept. 27; v. 290; p. 769.
- Musical instruction, Indicator for. E. Fennell. No. 1,400,947; Dec. 20.
- Musical instrument and music-sheet, Automatic. E. W. Scherr, Jr. No. 1,372,560; Mar. 22; v. 284; p. 702.
- Musical instrument and record therefor. R. S. Blair. No. 1,389,236; Aug. 30; v. 289; p. 884.
- Musical instrument for teaching. W. H. Huth. No. 1,392,766; Oct. 4.
- Musical instrument, Mechanical. H. E. Tower. No. 1,400,921; Dec. 20.
- Musical instrument of the string type. J. N. Vasey and B. R. Kiessig. No. 1,383,500; July 5; v. 288; p. 50.
- Musical instrument operated by percussion. V. Angyal. No. 1,385,898; July 26; v. 288; p. 750.
- Musical instrument, Percussion. J. C. Deagan. No. 1,369,268; Feb. 22; v. 283; p. 610.
- Musical instrument, Stringed. J. Boosh and W. Kowaluk. No. 1,401,865; Dec. 27.
- Musical instrument, Stringed. G. Cloetens. No. 1,392,246; Sept. 27; v. 290; p. 770.
- Musical instrument, Stringed. E. B. Harrington. No. 1,392,053; Sept. 27; v. 290; p. 731.
- Musical instrument, Stringed. A. J. Ostrander. No. 1,388,880; Aug. 30; v. 289; p. 813.
- Musical instrument, Stringed. F. Winquist and J. Soravia. No. 1,390,004; Sept. 6; v. 290; p. 90.
- Musical instrument, Wind. I. O. Hawk. No. 1,395,107; Oct. 25.
- Musical instruments, Action for pneumatic. G. P. Brand. No. 1,373,593; Apr. 5; v. 285; p. 41.
- Musical instruments, Air-motor for automatic. C. V. Jameson. No. 1,395,278; Nov. 1.
- Musical instruments, Apparatus for calibrating and justifying parts of wind. E. J. Gulick. No. 1,389,348; Aug. 30; v. 289; p. 907.
- Musical instruments, Attachment for reed. G. B. Humes. No. 1,384,564; July 12; v. 288; p. 320.
- Musical instruments, Bellows for pneumatically-operated. A. P. Gustafson. No. 1,398,730; Nov. 29.
- Musical instruments, Bridges for stringed. T. J. McHugh and L. A. Williams. No. 1,365,839; Jan. 18; v. 282; p. 430.
- Musical instruments, Circuit-closer for. R. Conover and L. Hull. No. 1,390,984; Sept. 20; v. 290; p. 440.
- Musical instruments, Device for protecting the lips of players of wind. H. W. Wetmore. No. 1,386,823; Aug. 9; v. 289; p. 243.
- Musical instruments, Expression device for automatic. C. V. Jameson. No. 1,367,262; Feb. 1; v. 283; p. 76.
- Musical instruments, Fretting device for stringed. C. H. Marx. No. 1,371,506; Mar. 15; v. 284; p. 444.
- Musical instruments, Glass tone-bar for playing the guitar and similar stringed. A. Shutt. No. 1,372,254; Mar. 22; v. 284; p. 644.



*Alphabetical list of inventions—Continued.*

- Musical instruments, Illuminating attachment for keyboard. B. C. Kingsley. No. 1,401,608; Dec. 27.
- Musical instruments, Key-pad for wind. F. A. Buescher. No. 1,401,872; Dec. 27.
- Musical instruments, Making note-sheets for. C. F. Stoddard. No. 1,370,614; Mar. 8; v. 284; p. 208.
- Musical instruments, Mold for making. G. Bondi. No. 1,369,381; Feb. 22; v. 283; p. 631.
- Musical instruments, Mouthpiece for. H. E. O'Brien. No. 1,401,634; Dec. 27.
- Musical instruments, Pneumatic action for. C. V. Jameson. No. 1,367,263; Feb. 1; v. 283; p. 76.
- Musical instruments, &c., Pneumato-electric switch for. A. H. Williams. No. 1,388,989; Aug. 30; v. 289; p. 835.
- Musical instruments, Power-unit mounting for. G. M. Russell. No. 1,381,666; June 14; v. 287; p. 306.
- Musical instruments, Transposing device for pneumatic. L. D. Dibert and R. C. Winter. No. 1,394,541; Oct. 25.
- Musical instruments, Tuning attachment for wind. G. F. Nenneker. No. 1,374,758; Apr. 12; v. 285; p. 308.
- Musical instruments, Tuning device for stringed. C. G. Stromberg. No. 1,367,105; Feb. 1; v. 282; p. 44.
- Musical instruments, Tuning device for wind. A. J. Sinclair. No. 1,365,860; Jan. 18; v. 282; p. 434.
- Musical instruments, Tuning-peg and mounting for. G. C. Lindsey. No. 1,375,304; Apr. 19; v. 285; p. 476.
- Musical instruments, Tuning-pegs for stringed. A. D. Grover. No. 1,384,459; July 12; v. 288; p. 298.
- Musical rocking-chair. A. Zubryd. No. 1,394,393; Oct. 18.
- Musical stringed instruments, Bridge for. A. D. Grover. No. 1,381,187; June 14; v. 287; p. 218.
- Musical tones, Electrical system for producing. F. E. Miller. No. 1,376,288; Apr. 26; v. 285; p. 695.
- Mute. A. W. Ward. No. 1,369,370; Feb. 22; v. 283; p. 629.
- Muster-check board. R. L. Johnson. No. 1,393,136; Oct. 11.
- Muzzle, Colt's. L. W. Williams. No. 1,401,848; Dec. 27.
- Nail: See—
- Staple-nail. Upholstery-nail.
- Nail. H. D. Hamilton. No. 1,375,633; Apr. 19; v. 285; p. 538.
- Nail. T. J. Lords. No. 1,382,005; June 21; v. 287; p. 431.
- Nail. F. L. Mackenzie. No. 1,400,756; Dec. 20.
- Nail-buffer. I. Clair. No. 1,369,619; Feb. 22; v. 283; p. 678.
- Nail-clip. C. E. A. Gronbeck. No. 1,394,727; Oct. 25.
- Nail-container and nail-delivering device. A. R. W. Tanner. No. 1,393,586; Oct. 11.
- Nail-delivering machine. H. A. Stone. No. 1,372,255; Mar. 22; v. 284; p. 644.
- Nail-distributor. J. H. Pope. No. 1,381,240; June 14; v. 287; p. 227.
- Nail-distributing apparatus. B. F. Mayo. No. 1,399,785; Dec. 13.
- Nail driving and setting machine. A. River. No. 1,390,060; Sept. 6; v. 290; p. 101.
- Nail-extractor. G. Weinbeer. No. 1,381,683; June 14; v. 287; p. 310.
- Nail-extractor. T. D. Richardson. No. 1,395,522; Nov. 1.
- Nail holding and spacing device. E. J. Miller. No. 1,378,550; May 17; v. 286; p. 524.
- Nail or rivet, Clenching. E. Board. No. 1,400,409; Dec. 13.
- Nail-polish. J. Brueck. No. 1,388,546; Aug. 23; v. 289; p. 693.
- Nail-polisher. V. C. Brod. No. 1,389,621; Sept. 6; v. 290; p. 12.
- Nail-puller. I. Lorentzen. No. 1,387,653; Aug. 16; v. 289; p. 459.
- Nail-puller. F. Williams. No. 1,368,311; Feb. 15; v. 283; p. 384.
- Nail-remover. C. J. Herschel. No. 1,377,071; May 3; v. 286; p. 132.
- Nail-set or punch. A. Lindstrom. No. 1,378,698; May 17; v. 286; p. 553.
- Nail-string. F. L. Mackenzie. No. 1,377,262; May 10; v. 286; p. 224.
- Nail-string machine. S. M. Cutter. No. 1,397,204; Nov. 15.
- Nail-string machine. G. C. F. Williams. No. 1,397,191; Nov. 15.
- Nail-strip holder. E. J. Miller. No. 1,383,993; July 5; v. 288; p. 152.
- Nail-transferring mechanism. H. B. Greenough. No. 1,377,337; May 10; v. 286; p. 240.
- Nail, Upholstery-. C. W. Tobey. No. 1,397,388; Nov. 15.
- Nails, Device for use with. G. Müller. No. 1,399,306; Dec. 6.
- Nails, Machine for feeding and driving. M. S. Finch. No. 1,401,767; Dec. 27.
- Nails, Method of and machine for making. A. Bates. No. 1,379,611; May 31; v. 286; p. 872.
- Nailing apparatus. J. D. Bell. No. 1,366,050; Jan. 18; v. 282; p. 471.
- Nailing-machine. J. F. Penner and A. A. Lansberry. No. 1,383,145; June 28; v. 287; p. 701.
- Nailing-machine. J. R. Gilda. No. 1,373,961; Apr. 5; v. 285; p. 114.
- Nailing-machine. W. N. Oehm and G. Powell. No. 1,393,816; Oct. 18.
- Nailing-machine. A. B. Tozer. No. 1,380,690; June 7; v. 287; p. 69.
- Nailing-machines, Clamping attachment for. R. C. Rasmussen. No. 1,392,222; Sept. 27; v. 290; p. 764.
- Nailing and tacking machine. H. E. Cooley. No. 1,398,258; Nov. 29.
- Name-plate attachment. G. G. Greenburg. No. 1,400,155; Dec. 13.
- Naphthols, Manufacture of. L. F. Chebotaref. No. 1,381,280; June 14; v. 287; p. 234.
- Napkin. M. Post. No. 1,389,530; Aug. 30; v. 289; p. 943.
- Napkin-clasp. S. M. Ryason. No. 1,393,577; Oct. 11.
- Napkin-folding machine. B. F. Brownlow. No. 1,371,349; Mar. 15; v. 284; p. 412.
- Napkin-holder. P. A. Bowen. No. 1,390,083; Sept. 6; v. 290; p. 106.
- Napkin-package. W. P. McCorkindale. No. 1,369,930; Mar. 1; v. 284; p. 33.
- Navigable-vessel lock. C. O. Flynn. No. 1,381,407; June 14; v. 287; p. 258.
- Navigation instrument. R. A. Eldridge. No. 1,391,305; Sept. 20; v. 290; p. 506.
- Navigation instrument. J. T. Reeves. No. 1,401,382; Dec. 27.
- Neckband-expanding device. C. L. Braley. No. 1,381,058; June 7; v. 287; p. 141.
- Neckband for shirts. M. E. Manire. No. 1,397,435; Nov. 15.
- Neckbands, Ironing. G. B. Ehrmann. No. 1,384,605; July 12; v. 288; p. 329.
- Necklace. E. L. Richards. No. 1,375,176; Apr. 19; v. 285; p. 451.
- Neckscarf. A. M. Bakerman. No. 1,396,240; Nov. 8.
- Neck-yoke fastener. F. W. Berger. No. 1,393,487; Oct. 11.
- Necktie. J. Forman. No. 1,373,065; Mar. 29; v. 284; p. 842.
- Necktie. T. Polonus. No. 1,382,382; June 21; v. 287; p. 501.
- Necktie. C. W. Waller. No. 1,375,190; Apr. 19; v. 285; p. 454.
- Necktie. M. F. Walt. No. 1,378,067; May 17; v. 286; p. 432.
- Necktie and collar holder. B. J. McDowell. No. 1,368,740; Feb. 15; v. 283; p. 468.
- Necktie and making same. T. Fruchtman. No. 1,379,256; May 24; v. 286; p. 731.
- Necktie and securing means therefor. E. Bliss. No. 1,366,864; Jan. 25; v. 282; p. 676.
- Necktie-clasp. F. E. Williams and O. S. Barnum. No. 1,399,233; Dec. 6.
- Necktie-fastener. C. Ruben. No. 1,371,707; Mar. 15; v. 284; p. 483.
- Necktie-form. H. E. Stonge. No. 1,386,140; Aug. 2; v. 289; p. 36.
- Necktie-form. F. Stuart. No. 1,380,267; May 31; v. 286; p. 995.
- Necktie form and holder. J. Buttigieg. No. 1,394,606; Oct. 25.
- Necktie-former. L. F. Caumont. No. 1,367,461; Feb. 1; v. 283; p. 115.
- Necktie-holder. S. Berlin. No. 1,373,941; Apr. 5; v. 285; p. 110.
- Necktie-holder. J. Boros. No. 1,400,858; Dec. 20.
- Necktie-holder. J. T. Clark. No. 1,393,262; Oct. 11.
- Necktie-holder. R. Drysdale. No. 1,372,493; Mar. 22; v. 284; p. 689.
- Necktie-holder. T. Maloy. No. 1,364,446; Jan. 4; v. 282; p. 78.
- Necktie-holder. J. A. Mandis. No. 1,370,468; Mar. 1; v. 284; p. 135.
- Necktie-holder. A. C. Potter. No. 1,374,322; Apr. 12; v. 285; p. 223.
- Necktie-holder. A. Radin. No. 1,388,304; Aug. 23; v. 289; p. 645.
- Necktie-retainer. M. J. Bolstad. No. 1,388,163; Aug. 23; v. 289; p. 616.
- Necktie-retainer. C. Sjoman. No. 1,364,326; Jan. 4; v. 282; p. 54.
- Necktie-stretcher. E. H. Strong. No. 1,393,848; Oct. 18.
- Necktie-support. W. R. Morson and E. B. Jarvis. No. 1,391,339; Sept. 20; v. 290; p. 513.
- Neckties, Renovating and ironing frame for. F. J. Hayman. No. 1,380,101; May 31; v. 286; p. 965.
- Neckties, Safety-holder for. J. Pabst. No. 1,394,441; Oct. 18.
- Neckwear. W. C. Schmidt. No. 1,386,429; Aug. 2; v. 289; p. 91.
- Needle. W. Phillips. No. 1,390,924; Sept. 13; v. 290; p. 366.
- Needle-adjusting means. C. Cheney. No. 1,390,499; Sept. 13; v. 290; p. 280.
- Needle-arms and fulcrum-bars, Swaging. F. H. Doerr. No. 1,394,717; Oct. 25.
- Needle-bar-operating mechanism. A. H. De Voe. No. 1,386,323; Aug. 2; v. 289; p. 72.
- Needle-clamp. A. H. DeVoe. No. 1,401,466; Dec. 27.
- Needle, Electric. M. E. Hall. No. 1,394,171; Oct. 18.
- Needle, Embroidery-. D. H. Butler. No. 1,366,556; Jan. 25; v. 282; p. 615.
- Needle, Embroidery-. R. and J. Chern. No. 1,364,352; Jan. 4; v. 282; p. 69.
- Needle, Embroidery-. C. C. Cluff. No. 1,398,004; Nov. 22.



- Needle, Embroidery-. P. S. Kirby. No. 1,396,849; Nov. 15.
- Needle, Embroidery-. J. C. Thraillkill. No. 1,398,207; Nov. 22.
- Needle-feeler. H. Nichols. No. 1,380,157; May 31; v. 286; p. 975.
- Needle guide, Interchangeable-. W. L. Barron. No. 1,387,094; Aug. 9; v. 289; p. 297.
- Needle, Hand-embroidery. A. F. Vorce. No. 1,392,542; Oct. 4.
- Needle holder, Knitting-. M. E. and L. V. Crowell. No. 1,372,648; Mar. 22; v. 284; p. 718.
- Needle, Larding-. B. Schwinzer. No. 1,384,161; July 12; v. 288; p. 236.
- Needle-motion. F. E. Valois. No. 1,368,418; Feb. 15; v. 283; p. 405.
- Needle-plate holder. R. E. Gosney. No. 1,375,383; Apr. 19; v. 285; p. 490.
- Needle, Safety-crochet-. E. R. Mitchell. No. 1,376,151; Apr. 26; v. 285; p. 669.
- Needle, Seaman's net-. W. Hendry. No. 1,374,503; Apr. 12; v. 285; p. 259.
- Needle, Surgical. D. M. Littlejohn. No. 1,377,359; May 10; v. 286; p. 244.
- Needle, Tape-. W. Antanaviczius. No. 1,374,710; Apr. 12; v. 285; p. 299.
- Needle-threader. B. Couch. No. 1,386,239; Aug. 2; v. 289; p. 55.
- Needle-threader. F. C. Nelson. No. 1,371,429; Mar. 15; v. 284; p. 428.
- Needles, Embroidery-. G. V. Pade and C. T. Neitzel. No. 1,371,976; Mar. 15; v. 284; p. 533.
- Needles, Method of and apparatus for manufacturing crochet-. G. A. Carlson. No. 1,391,365; Sept. 20; v. 290; p. 518.
- Negative resistance. A. W. Hull. No. 1,387,984; Aug. 16; v. 289; p. 525.
- Negotiable instrument. H. C. Boschen. No. 1,372,397; Mar. 22; v. 284; p. 671.
- Nest. A. C. Hitchcock. No. 1,396,432; Nov. 8.
- Nest. E. F. Steneman. No. 1,400,576; Dec. 20.
- Nest-box, Hen's. A. and A. Ische. No. 1,379,628; May 31; v. 286; p. 876.
- Nest, Hen's. E. S. Brown. No. 1,401,459; Dec. 27.
- Nest, Hen's. J. C. Groves. No. 1,399,614; Dec. 6.
- Nest, Hen's. D. Haley. No. 1,378,785; May 17; v. 286; p. 569.
- Nest, Hen's. M. T. Sels. No. 1,371,443; Mar. 15; v. 284; p. 431.
- Nest, Nursery-. F. W. Stotter and R. H. Jamison. No. 1,374,333; Apr. 12; v. 285; p. 225.
- Nest, Poultry-. W. M. Lowthrop. No. 1,390,916; Sept. 13; v. 290; p. 365.
- Nest, Segregating-. N. M. Bain. No. 1,395,078; Oct. 25.
- Nest, Trap-. J. F. Cook. No. 1,393,756; Oct. 18.
- Nest, Trap-. S. C. Belding. No. 1,395,942; Nov. 1.
- Nest, Trap-. D. E. Cowgill. No. 1,396,407; Nov. 8.
- Nest, Trap-. A. O. and P. M. Forster. No. 1,394,485; Oct. 18.
- Nest, Trap-. O. Stromborg. No. 1,396,386; Nov. 8.
- Net, Dip-. A. B. Hanel. No. 1,387,393; Aug. 9; v. 289; p. 356.
- Net, Intertwisted. T. Yamamoto. No. 1,390,325; Sept. 13; v. 290; p. 246.
- Net, Landing-. F. R. Lewis. No. 1,391,841; Sept. 27; v. 290; p. 688.
- Nethergarment. D. McGenniss. No. 1,373,341; Mar. 29; v. 284; p. 898.
- Neutralizer and muffler, Recoll. R. M. Towson. No. 1,390,658; Sept. 12; v. 290; p. 313.
- Newspaper. E. H. Cottrell. No. 1,387,837; Aug. 16; v. 289; p. 497.
- Newspaper. E. H. Cottrell. No. 1,387,838; Aug. 16; v. 289; p. 497.
- Newspaper-holder. P. Orend. No. 1,376,031; Apr. 26; v. 285; p. 646.
- Newspaper-holder. J. S. Wallick. No. 1,373,988; Apr. 5; v. 285; p. 119.
- Newspapers, Device for holding. G. W. Wertman. No. 1,368,868; Feb. 15; v. 283; p. 406.
- Nickel and cobalt, Separating. M. J. Udy and O. C. Ralston. No. 1,365,358; Jan. 11; v. 282; p. 297.
- Nickel formo-carbonate and making same. C. Ellis. No. 1,390,686; Sept. 13; v. 290; p. 319.
- Nickel-plating. T. A. Edison. No. 1,371,414; Mar. 15; v. 284; p. 426.
- Nickel-plating solution. L. Schulte. No. 1,379,050; May 24; v. 286; p. 692.
- Nickel, Separating. A. McKechnie. No. 1,381,720; June 14; v. 287; p. 318.
- Nickel, Separating and recovering. A. McKechnie. No. 1,377,713; May 10; v. 286; p. 310.
- Nipple-clasp. A. Parr. No. 1,379,476; May 24; v. 286; p. 772.
- Nipple-grip. W. P. Strickland. No. 1,393,920; Oct. 18.
- Nipple, Interlocking casing-reducing. B. D. McAlvay. L. S. Hamer, and G. C. Deakins. No. 1,367,156; Feb. 1; v. 283; p. 54.
- Nipple, Lubricant-. N. W. Cummins. No. 1,391,942; Sept. 27; v. 290; p. 708.
- Nipples, Machine for forming. P. A. Raiche. No. 1,389,219; Aug. 30; v. 289; p. 880.
- Nitrate, Manufacturing thorium. H. N. McCoy. No. 1,366,128; Jan. 18; v. 282; p. 486.
- Nitrates, Fixation of. C. H. Buettner. No. 1,368,019; Feb. 8; v. 283; p. 280.
- Nitrates, Treating undried organic. W. O. Snelling. No. 1,386,439; Aug. 2; v. 289; p. 93.
- Nitrates, &c., Treating undried organic. W. O. Snelling. No. 1,395,776; Nov. 1.
- Nitrating benzol. T. J. Brewster. No. 1,380,185; May 31; v. 286; p. 980.
- Nitric acid, Concentration of. O. Jensen. No. 1,395,577; Nov. 1.
- Nitric acid, Making. J. H. Reid. No. 1,400,912; Dec. 20.
- Nitric acid, Producing. Y. Kawakita. No. 1,371,789; Mar. 15; v. 284; p. 498.
- Nitrids, Making ammonia from compound. G. L. Williams. No. 1,379,668; May 31; v. 286; p. 883.
- Nitriles and acids, Production of. F. A. Strauss. No. 1,367,898; Feb. 8; v. 283; p. 257.
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- Nitrocellulose and reducing the fire risk thereof, Dehydrating. P. C. Seel. No. 1,398,911; Nov. 29.
- Nitrocellulose and to a valuable nitrocellulose product resulting therefrom, Treating. G. C. Bacon and W. C. Wilson. No. 1,397,915; Nov. 22.
- Nitrocellulose compositions, Making colored. L. J. Malone. No. 1,399,357; Dec. 6.
- Nitrocellulose solutions, Spinning. A. Dryen. No. 1,377,761; May 10; v. 286; p. 320.
- Nitrocymene, Making thymol from. R. M. Cole. No. 1,378,939; May 24; v. 286; p. 671.
- Nitrodiaz compounds, Making. W. B. Jones. No. 1,394,556; Oct. 25.
- Nitrogen and hydrogen mixtures or nitrogen, Generating from air and hydrogen either. L. Casale. No. 1,384,428; July 12; v. 288; p. 292.
- Nitrogen compounds, Apparatus for forming. A. Kaufman. No. 1,379,187; May 24; v. 286; p. 717.
- Nitrogen compounds during the dry distillation of nitrogenous fuel, Producing. W. Ostwald. No. 1,386,723; Aug. 9; v. 289; p. 222.
- Nitrogen compounds from metal carbids, Apparatus for the production of. V. Thrane. No. 1,364,157; Jan. 4; v. 282; p. 21.
- Nitrogen-containing compounds, Producing. Karl Prinz zu Lowenstein. No. 1,386,941; Aug. 9; v. 289; p. 266.
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- Nitrogen-hydrogen mixtures, Manufacturing. W. Gauss and W. Wild. No. 1,390,200; Sept. 6; v. 290; p. 129.
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- Nitrophenolic compounds, Making. T. J. Brewster. No. 1,380,186; May 31; v. 286; p. 980.
- Nitrostarch and the like, Making. G. R. Anchors. No. 1,376,598; May 3; v. 286; p. 42.
- No-voltage release switch. H. F. Krantz. No. 1,399,496; Dec. 6.
- Noise-maker. M. Folkush. No. 1,374,644; Apr. 12; v. 285; p. 286.
- Non-foaming measuring-cup. A. I. Risser. No. 1,385,495; July 26; v. 288; p. 669.
- Non-skid and traction chain. H. B. Layman. No. 1,397,529; Nov. 22.
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- Non-skid attachment for vehicle-wheels. A. Nelson. No. 1,389,969; Sept. 6; v. 290; p. 83.
- Non-skid chain-fastening means. B. F. Hosley. No. 1,395,712; Nov. 1.
- Non-skid device. B. O. Beadle. No. 1,394,268; Oct. 18.
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- Non-skid device. J. B. Nesmeyer. No. 1,369,122; Feb. 22; v. 283; p. 582.
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- Non-skid device. H. S. Williams. No. 1,379,151; May 24; v. 286; p. 711.
- Non-skid device. F. W. Ziemendorf. No. 1,370,177; Mar. 1; v. 284; p. 80.
- Non-skid device, Automobile-wheel. A. Carlson. No. 1,396,556; Nov. 8.
- Non-skid device, Unit. W. B. Smith. No. 1,401,503; Dec. 27.
- Non-skid safety device. N. Runstetler. No. 1,391,413; Sept. 20; v. 290; p. 528.
- Non-skid wheel. R. J. Farrell. No. 1,389,822; Sept. 6; v. 290; p. 52.
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- Nozzle for use in manufacture of strips from viscose and analogous matter and for similar purposes, Squirting-. J. E. Criggal. No. 1,366,166; Jan. 18; v. 282; p. 494.
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- Nut. G. R. De Long. No. 1,375,782; Apr. 26; v. 285; p. 597.
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- Nut-cracking machine. R. S. Cowan. No. 1,401,588; Dec. 27.
- Nut-cracking machine. J. O. Drews. No. 1,379,540; May 24; v. 286; p. 785.
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- Nut-lock. J. A. Kimball. No. 1,373,335; Mar. 29; v. 284; p. 897.
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- Oil-cup. S. I. Fekete. No. 1,391,466; Sept. 20; v. 290; p. 539.
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- Oil-cup. W. G. Frisbie. No. 1,389,640; Sept. 6; v. 290; p. 16.
- Oil-cup. A. C. Grunwald. No. 1,380,059; May 31; v. 286; p. 957.
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- Oil-gas burner. J. P. Horgan. No. 1,372,695; Mar. 29; v. 284; p. 769.
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- Oil, Mineral. W. N. Blakeman, Jr. No. 1,385,036; July 19; v. 288; p. 499.
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- Oil product, Vulcanized-. W. O. Snelling. No. 1,376,173; Apr. 26; v. 285; p. 673.
- Oil product, Vulcanized-. W. O. Snelling. No. 1,376,174; Apr. 26; v. 285; p. 673.
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- Oil-refining process, Crude-. J. G. P. Evans. No. 1,366,643; Jan. 25; v. 282; p. 632.
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- Oil, &c., Retort for extracting. A. V. Young. No. 1,378,643; May 17; v. 286; p. 542.
- Oil-retorts and apparatus therefor, Heating. C. M. Alexander. No. 1,387,677; Aug. 16; v. 289; p. 464.
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- Oil-ring. H. Homberger. No. 1,386,931; Aug. 9; v. 289; p. 264.
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- Oil-sealing device. C. Balough. No. 1,391,293; Sept. 20; v. 290; p. 503.
- Oil-separator. J. Foster. No. 1,379,176; May 24; v. 286; p. 715.
- Oil-separator trap. E. C. Kelly. No. 1,400,441; Dec. 13.
- Oil service-fountain. F. Cornell. No. 1,393,507; Oct. 11.
- Oil-shale retort. F. Jones. No. 1,373,890; Apr. 5; v. 285; p. 99.
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- Oil-still. J. Primrose. No. 1,389,987; Sept. 6; v. 290; p. 84.
- Oil strainer and sediment trap. G. O. Eberhardt. No. 1,378,331; May 17; v. 286; p. 482.
- Oil substitute, Linseed-. M. Darrin. No. 1,382,345; June 21; v. 287; p. 494.
- Oil, Sulfated. F. L. Randel. No. 1,374,607; Apr. 12; v. 285; p. 279.
- Oil-switch. G. A. Burnham. No. 1,399,460; Dec. 6.
- Oil, Synthetic Apple-. F. B. Power, and V. K. Chesnut. No. 1,366,541; Jan. 25; v. 282; p. 612.
- Oil-tank. A. E. De Save. No. 1,393,719; Oct. 11.
- Oil-tanks, Explosion-hatch for. B. E. Hull. No. 1,396,719; Nov. 8.
- Oil-test cock. L. M. Fisher. No. 1,368,329; Feb. 15; v. 283; p. 388.
- Oil-test wrench. J. G. Grove. No. 1,370,642; Mar. 8; v. 284; p. 214.
- Oil-testing apparatus. L. M. Klauber. No. 1,371,378; Mar. 15; v. 284; p. 418.
- Oil-trap. R. P. Jones. Nos. 1,397,891-2; Nov. 22.
- Oil, Treatment of castor-. A. Schwarzman. No. 1,372,632; Mar. 22; v. 284; p. 716.
- Oil-vaporizer, Exhaust-heated. G. M. Hooley. No. 1,400,287; Dec. 13.
- Oil-well apparatus. J. Norbye. No. 1,389,007; Aug. 30; v. 289; p. 839.
- Oil-well casings, Electrically-controlled puller for. W. D. Dooley. No. 1,374,833; Apr. 12; v. 285; p. 322.
- Oil-well cleaner. M. A. Palette. No. 1,400,765; Dec. 20.
- Oil-well fishing-tool, Mechanically-operated. W. D. Dooley. No. 1,374,834; Apr. 12; v. 285; p. 322.
- Oil-well machinery comprising the spring-ball elevator. W. G. Black. No. 1,397,072; Nov. 15.
- Oil-well mechanism. W. E. Hancock. No. 1,384,525; July 12; v. 288; p. 312.
- Oil-well packer. P. H. Mack. Nos. 1,395,718-19; Nov. 4.
- Oil-well reamer. J. C. Jones. No. 1,371,425; Mar. 15; v. 284; p. 428.
- Oil-well-screen and liner cleaner. J. R. Hall. No. 1,379,815; May 31; v. 286; p. 910.
- Oil-well under-reamer. T. J. McCormick. No. 1,401,545; Dec. 27.
- Oil-well washer. C. Pfeiffer and F. A. Wasson. No. 1,375,106; Apr. 19; v. 285; p. 438.
- Oil-wells and the like, Grapple for. C. E. Reed. No. 1,375,320; Apr. 19; v. 285; p. 478.
- Oil-wells, Boring tool for. M. Belcher. No. 1,368,538; Feb. 15; v. 283; p. 429.
- Oil-wells, Drill-head for. S. Sorensen. No. 1,394,769; Oct. 25.
- Oil-wells, Pumping mechanism for. O. M. Provorse and R. C. Sutherland. No. 1,401,440; Dec. 27.
- Oil-wells, Sand-shield for. F. M. Hare. No. 1,389,550; Aug. 30; v. 289; p. 947.
- Oils and fats and manufacturing same, Edible fatty product from fixed. E. Klein. No. 1,381,564; June 14; v. 287; p. 287.
- Oils and fats, Treating. J. H. Jones. No. 1,381,469; June 14; v. 287; p. 269.
- Oils and other decolorized products of petroleum, Manufacture of viscous water-white. E. B. Cobb. No. 1,388,517; Aug. 23; v. 289; p. 688.
- Oils and other viscous decolorized products of petroleum, Manufacture of medicinal. E. B. Cobb. No. 1,388,832; Aug. 23; v. 289; p. 748.
- Oils and the like, Apparatus for vaporizing fuel-. S. Peskind. No. 1,391,789; Sept. 27; v. 290; p. 676.
- Oils, Apparatus for distilling petroleum-. A. D. Smith. No. 1,374,402; Apr. 12; v. 285; p. 239.
- Oils, Apparatus for refining. S. F. Stephens. No. 1,375,427; Apr. 19; v. 285; p. 499.
- Oils, Apparatus for the conversion of hydrocarbon. V. L. Emerson. No. 1,367,806; Feb. 8; v. 283; p. 240.
- Oils, Apparatus for treating hydrocarbon. R. Seeger. No. 1,394,688; Oct. 25.
- Oils, Clarifying and decolorizing. R. W. Mumford. No. 1,377,021; May 3; v. 286; p. 122.
- Oils, Conversion of hydrocarbon. V. L. Emerson. No. 1,367,807; Feb. 8; v. 283; p. 240.
- Oils, Cracking. W. O. Snelling. No. 1,371,268; Mar. 15; v. 284; p. 396.
- Oils, Cracking of hydrocarbon. J. Nelson. No. 1,391,568; Sept. 20; v. 290; p. 559.
- Oils, Cracking of hydrocarbon. J. Nelson. No. 1,391,569; Sept. 20; v. 290; p. 560.
- Oils, Dehydrator for petroleum-. H. R. Quinby. No. 1,382,234; June 21; v. 287; p. 472.
- Oils, Deodorization of. J. W. Bodman and T. M. Godfrey. No. 1,385,660; July 26; v. 288; p. 703.
- Oils, Distilling petroleum-. F. B. Lewis and T. S. Cooke. No. 1,392,584; Oct. 4.
- Oils, fats, and fatty acids, Extracting. R. H. McKee. No. 1,376,211; Apr. 26; v. 285; p. 680.
- Oils, fats, grease, wax, india-rubber, sulfur, and other substances soluble in organic solvents from materials containing same, Apparatus for extracting. L. J. Simon and W. H. Hinchley. No. 1,381,758; June 14; v. 287; p. 324.



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- Oils from foots, Separating. C. H. Hapgood. No. 1,381,706; June 14; v. 287; p. 314.
- Oils, Gasifier for low-gravity. T. M. Taggart. No. 1,392,463; Oct. 4.
- Oils, Lowering the boiling and flashing point of kerosene and like hydrocarbon. W. M. Wheeler. No. 1,387,876; Aug. 16; v. 289; p. 504.
- Oils, Machine for testing lubricating. H. K. Moore. No. 1,395,448; Nov. 1.
- Oils, Method and apparatus for burning fuel. C. E. Chapman. No. 1,386,091; Aug. 2; v. 289; p. 26.
- Oils, Method and means for heating by carbon and hydrocarbon. F. E. Gerstenberger. No. 1,382,721; June 28; v. 287; p. 620.
- Oils, Method and means for vaporizing heavy. M. Origet. No. 1,370,476; Mar. 1; v. 284; p. 137.
- Oils, Preparation of drying. E. Bielouss. No. 1,384,423; July 12; v. 288; p. 291.
- Oils, Process and apparatus for hydrogenating. A. J. MacDougall. No. 1,381,319; June 14; v. 287; p. 241.
- Oils, Purifying. D. T. Day. No. 1,365,894; Jan. 18; v. 282; p. 441.
- Oils, Purifying hydrocarbon. E. B. Cobb. No. 1,387,835; Aug. 16; v. 289; p. 496.
- Oils, Purifying hydrocarbon. C. I. Robinson. No. 1,387,868; Aug. 16; v. 289; p. 503.
- Oils, Reclaiming used lubricating. W. L. Jordan. No. 1,393,223; Oct. 11.
- Oils, Reducing acidity of. F. O. Ritter. No. 1,379,045; May 24; v. 286; p. 691.
- Oils, resins, gums, &c., which have been hardened, Treating and recovery for reuse. C. Littleton. No. 1,398,438; Nov. 29.
- Oils, Treating. A. B. Foster. No. 1,394,486; Oct. 18.
- Oils, Treating. A. Schwarzman. No. 1,372,631; Mar. 22; v. 284; p. 715.
- Oils, Treating asphaltic. P. Prutzman and G. L. Goodwin. No. 1,399,792; Dec. 13.
- Oils, Treating hydrocarbon. D. T. Day. No. 1,373,391; Mar. 29; v. 284; p. 907.
- Oiler, R. Frick. No. 1,377,195; May 10; v. 286; p. 211.
- Oiler, R. Frick. No. 1,394,991; Oct. 25.
- Oiler, Automatic. J. C. Coffee. No. 1,389,489; Aug. 30; v. 289; p. 934.
- Oiler, Automatic. G. Weir. No. 1,365,877; Jan. 18; v. 282; p. 438.
- Oiler, Force-feed. L. E. Godfriaux. No. 1,394,168; Oct. 18.
- Oiler, Hand-. G. M. Mood. No. 1,379,471; May 24; v. 286; p. 771.
- Oiler, Hog-. C. Burnett. No. 1,389,435; Aug. 30; v. 289; p. 924.
- Oiler, Hog-. J. R. Curran. No. 1,382,066; June 21; v. 287; p. 442.
- Oiler, Hog-. C. A. Haisley. No. 1,390,611; Sept. 13; v. 290; p. 303.
- Oiler, Road-. J. R. Kinney. No. 1,382,731; June 28; v. 287; p. 622.
- Oiler, Spring-. W. H. Brown. No. 1,364,700; Jan. 4; v. 282; p. 126.
- Oiler, Spring-. R. B. Somers and T. Olinger. No. 1,391,518; Sept. 20; v. 290; p. 549.
- Oiler, Wheel-flange. W. T. D. Campaigne. No. 1,389,420; Aug. 30; v. 289; p. 921.
- Oilers, Electric operating means for flange. C. F. Hooper. No. 1,389,247; Aug. 30; v. 289; p. 886.
- Oiling apparatus, Hog-. P. P. Larkin. No. 1,381,715; June 14; v. 287; p. 316.
- Oiling device. A. Blumenthal. No. 1,370,273; Mar. 1; v. 284; p. 99.
- Oiling device. C. Kralicek. No. 1,401,711; Dec. 27.
- Oiling device, Automobile-engine. G. Y. McClatchie. No. 1,387,654; Aug. 16; v. 289; p. 459.
- Oiling device for fiber silk. J. Jacobs. No. 1,396,120; Nov. 8.
- Oiling device for fiber silk. J. Jacobs. No. 1,397,522; Nov. 22.
- Oiling device for internal-combustion-engine timers. H. J. Wright. No. 1,397,941; Nov. 22.
- Oiling device for rub-aprons, Automatic. W. J. Kerwin, Jr. No. 1,370,972; Mar. 8; v. 284; p. 276.
- Oiling device, Pneumatic-hammer. T. J. Greene and P. W. Burke. No. 1,388,459; Aug. 23; v. 289; p. 677.
- Oiling mechanism, Elevator. G. P. Young. No. 1,400,254; Dec. 13.
- Oiling system. G. M. Andersson. No. 1,387,637; Aug. 16; v. 289; p. 456.
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- Oiling system. H. P. Woodworth. No. 1,393,875; Oct. 18.
- Oiling system for automobiles. A. I. Johnson. No. 1,396,959; Nov. 15.
- Oiling system, Splash. G. A. Boyer. No. 1,370,274; Mar. 1; v. 284; p. 99.
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- Oilproof impregnating agent or coating process. A. J. Rowland. No. 1,395,016; Oct. 25.
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- Ointment. J. Wood. No. 1,383,896; July 5; v. 288; p. 132.
- Ointment-appliator. W. A. E. Pfaff. No. 1,391,850; Sept. 27; v. 290; p. 689.
- Ointment composition and making same. S. P. Finigan. No. 1,372,496; Mar. 22; v. 284; p. 690.
- Ointment, Hair. S. D. Gough. No. 1,365,981; Jan. 18; v. 282; p. 458.
- Oldham coupling. E. J. Weiffens. No. 1,370,864; Mar. 8; v. 284; p. 256.
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- Oleomargarin, Manufacturing. W. T. Ashby. No. 1,400,341; Dec. 13.
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- Olives, Preserving. H. N. Wolff. No. 1,393,873; Oct. 18.
- Onion-topping machine. A. Cihak, Jr. No. 1,368,487; Feb. 15; v. 283; p. 419.
- Onion-topping machine. F. J. Schroeder. No. 1,379,049; May 24; v. 286; p. 692.
- Opaque objects, Holding means for. H. W. Ott and F. H. Bufton. No. 1,375,858; Apr. 26; v. 285; p. 612.
- Open-hearth furnace. V. B. Browne. No. 1,393,493; Oct. 11.
- Opener. C. J. Kryzanowsky. No. 1,394,029; Oct. 11.
- Opera-chair. L. Himes. No. 1,382,084; June 21; v. 287; p. 445.
- Operating apparatus at a predetermined time, Mechanism for automatically. M. Coleman. No. 1,381,543; June 14; v. 287; p. 284.
- Operating connection. W. J. Baumgartner. No. 1,390,482; Sept. 13; v. 290; p. 276.
- Operating-handles, Locking device for. M. Jacobsky. No. 1,398,232; Nov. 29.
- Operating mechanism. C. M. Yoder. No. 1,367,935; Feb. 8; v. 283; p. 264.
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- Ophthalmic mounting. F. R. Bishop. No. 1,393,340; Oct. 11.
- Ophthalmic mounting. W. H. Boutelle. No. 1,372,596; Mar. 22; v. 284; p. 709.
- Ophthalmic mounting. W. E. McDonell. No. 1,371,385; Mar. 15; v. 284; p. 420.
- Ophthalmic mounting. H. H. Schott. No. 1,400,997; Dec. 20.
- Ophthalmic mounting. E. L. Schumacher and W. H. Boutelle. No. 1,384,862; July 19; v. 288; p. 463.
- Ophthalmic mounting. F. A. Stevens. No. 1,383,872; July 5; v. 288; p. 127.
- Ophthalmic-mounting-adjusting device. F. A. Stevens. No. 1,384,872; July 19; v. 288; p. 465.
- Ophthalmic mounting and making same. E. Bellair. No. 1,374,178; Apr. 12; v. 285; p. 196.
- Ophthalmic mounting and making same. E. L. Schumacher. No. 1,401,283; Dec. 27.
- Optical apparatus. E. H. Lysle. No. 1,367,488; Feb. 1; v. 283; p. 120.
- Optical apparatus and using the same. E. H. Lysle. No. 1,367,487; Feb. 1; v. 283; p. 120.
- Optical apparatus and using the same. E. H. Lysle. No. 1,375,922; Apr. 26; v. 285; p. 625.
- Optical device. E. H. Lysle. No. 1,375,923; Apr. 26; v. 285; p. 625.
- Optical form, outline, and dimension gaging appliances, Projection apparatus for. R. P. Wilson. No. 1,371,458; Mar. 15; v. 284; p. 434.
- Optical gaging apparatus. F. Twyman and R. P. Wilson. No. 1,377,530; May 10; v. 286; p. 276.
- Optical illusions, Method of and means for producing. P. T. Tibbles. No. 1,387,631; Aug. 16; v. 289; p. 455.
- Optical instrument. A. Baumann. No. 1,397,156; Nov. 15.
- Optical instrument. S. J. Beach. No. 1,389,092; Aug. 30; v. 289; p. 856.
- Optical instrument. A. Perrin. No. 1,400,098; Dec. 13.
- Optical instruments, Fastening means for. W. Wittig. No. 1,385,512; July 26; v. 288; p. 673.
- Optical checking apparatus. R. Beman. No. 1,401,664; Dec. 27.
- Optical projecting system. H. P. Gage. No. 1,395,338; Nov. 1.
- Optical projection apparatus. J. Granz. No. 1,375,089; Apr. 19; v. 285; p. 434.
- Optical projection apparatus. W. L. Patterson. No. 1,365,599; Jan. 11; v. 282; p. 344.
- Optical projection-screen. A. Schulze. No. 1,381,022; June 7; v. 287; p. 134.
- Optical pyrometry. E. A. Keeler. No. 1,379,188; May 24; v. 286; p. 718.
- Orchard-heater. G. L. Blanchard. No. 1,373,647; Apr. 5; v. 285; p. 52.
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- Orchards, Apparatus for heating. T. Lowe. No. 1,375,221; Apr. 19; v. 285; p. 459.
- Orchards, Frost-preventing device for. W. L. Ross. No. 1,389,989; Sept. 6; v. 290; p. 86.
- Orchards, &c., Temperature-moderator for. L. J. Whitlock. No. 1,398,927; Nov. 29.



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- Order device, Advance. D. Woronzoff. No. 1,381,609; June 14; v. 287; p. 295.
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- Ordinance. A. T. Dawson and G. T. Buckham. No. 1,364,546; Jan. 4; v. 282; p. 97.
- Ordinance. A. T. Dawson and G. T. Buckham. No. 1,364,728; Jan. 4; v. 282; p. 131.
- Ordinance. A. T. Dawson and G. T. Buckham. No. 1,371,075; Mar. 8; v. 284; p. 296.
- Ordinance. A. T. Dawson and G. T. Buckham. No. 1,386,459; Aug. 2; v. 289; p. 97.
- Ordinance. A. T. Dawson and G. T. Buckham. No. 1,386,460; Aug. 2; v. 289; p. 97.
- Ordinance. A. T. Dawson and J. Horne. No. 1,401,241; Dec. 27.
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- Ordinance. A. Smith. No. 1,376,231; Apr. 26; v. 285; p. 684.
- Ordinance, Apparatus for loading. H. W. Lee and J. W. Swindale. No. 1,392,583; Oct. 4.
- Ordinance, Apparatus for testing the sighting device of. F. Schlieh. No. 1,400,772; Dec. 20.
- Ordinance, Compound for automatic removal of copper from. A. E. A. Dagory. No. 1,366,167; Jan. 18; v. 282; p. 494.
- Ordinance, Hydraulic recoil apparatus for. A. Bremberg. No. 1,398,172; Nov. 22.
- Ordinance, Pointing device for. R. Schürmann. No. 1,368,458; Feb. 15; v. 283; p. 413.
- Ordinance, Pointing device for. R. Schürmann and L. Schmidt. No. 1,384,000; July 5; v. 288; p. 154.
- Ordinance, Sighting apparatus. A. T. Dawson and G. T. Buckham. No. 1,364,729; Jan. 4; v. 282; p. 131.
- Ordinance, Sighting device for. M. Bartholdy. No. 1,373,937; Apr. 5; v. 285; p. 109.
- Ordinance, Sighting device for. M. Bartholdy. No. 1,384,007; July 5; v. 288; p. 155.
- Ore and making gas, Process of and material for reducing. J. H. Reid. No. 1,398,572; Nov. 29.
- Ore, Apparatus for concentrating. R. Luckenbach. No. 1,397,815; Nov. 22.
- Ore, Apparatus for extracting metal from. H. H. Godfrey. No. 1,401,769; Dec. 27.
- Ore, Apparatus for magnetic sizing and grading of. W. G. Swart, F. H. Jordan, E. W. Davis, and T. B. Counsellman. No. 1,380,871; June 7; v. 287; p. 105.
- Ore, &c., Apparatus for pulverizing. G. Johnston. No. 1,396,711; Nov. 8.
- Ore, Apparatus for treating. O. J. Ziegler. No. 1,377,542; May 10; v. 286; p. 278.
- Ore, Apparatus for treating cinnabar. A. J. Garver. No. 1,369,738; Feb. 22; v. 283; p. 702.
- Ore, Concentrating. B. H. Dosenbach and W. A. Scott. No. 1,401,055; Dec. 20.
- Ore-concentrating process. W. A. Scott. No. 1,369,054; Feb. 22; v. 283; p. 668.
- Ore concentration. D. D. Moffat. No. 1,400,308; Dec. 13.
- Ore concentration. W. A. Scott. No. 1,365,281; Jan. 11; v. 282; p. 282.
- Ore concentration. E. W. Wilkinson. Nos. 1,398,989-90; Dec. 6.
- Ore-concentration process. B. H. Dosenbach. No. 1,377,189; May 10; v. 286; p. 210.
- Ore-concentration process. W. A. Scott. No. 1,375,233; Apr. 19; v. 285; p. 462.
- Ore-concentrator. E. Deister. No. 1,381,862; June 14; v. 287; p. 344.
- Ore-concentrator. E. Deister. No. 1,382,275; June 21; v. 287; p. 481.
- Ore-concentrator. J. W. McGailliard. No. 1,369,899; Mar. 1; v. 284; p. 28.
- Ore-concentrator. C. C. Rueger. No. 1,387,075; Aug. 9; v. 289; p. 293.
- Ore-concentrators, Supporting mechanism for. E. and W. F. Deister. No. 1,382,276; June 21; v. 287; p. 481.
- Ore-crusher. J. Herman. No. 1,395,959; Nov. 1.
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- Ore materials from each other, Process of and apparatus for separating. R. S. Towne and F. B. Flinn. No. 1,378,920; May 24; v. 286; p. 668.
- Ore, Method of and apparatus for concentrating. G. S. A. Appelvist and E. O. E. Tyden. No. 1,367,223; Feb. 1; v. 283; p. 68.
- Ore-milling machine. J. J. Cranmer. No. 1,391,301; Sept. 20; v. 290; p. 505.
- Ore, Obtaining metal from. S. G. Musser. No. 1,365,844; Jan. 18; v. 282; p. 431.
- Ore, Reducing iron from the. J. F. Jones. No. 1,379,024; May 24; v. 286; p. 687.
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- Ore-separator. G. W. Arnold. No. 1,397,480; Nov. 15.
- Ore-separator. S. L. Boggs. No. 1,390,080; Sept. 6; v. 290; p. 105.
- Ore-separator. H. Campbell. No. 1,368,111; Feb. 8; v. 283; p. 297.
- Ore separator. F. Cushman. No. 1,368,901; Feb. 15; v. 283; p. 499.
- Ore-separator. E. B. Hoover. No. 1,366,660; Jan. 25; v. 282; p. 635.
- Ore-separator. J. J. Neville. No. 1,391,400; Sept. 20; v. 290; p. 525.
- Ore-smelting furnace. H. L. Charles. No. 1,394,471; Oct. 18.
- Ore-smelting furnace. H. L. Charles. No. 1,394,473; Oct. 18.
- Ore-smelting furnace. H. L. Charles. No. 1,394,474; Oct. 18.
- Ore, Treating. C. G. Collins. No. 1,374,434; Apr. 12; v. 285; p. 245.
- Ore-treating furnace. F. J. Bowman. No. 1,399,046; Dec. 6.
- Ore-washer. A. M. Gow. No. 1,392,413; Oct. 4.
- Ores and metallurgical products, Recovery of lead and silver from sulfid. H. Hey. No. 1,384,465; July 12; v. 288; p. 299.
- Ores and other material, Apparatus for crushing. H. W. Hardinge. No. 1,367,777; Feb. 8; v. 283; p. 234.
- Ores and other materials, Method of and means for treating finely-crushed. E. T. Middlemiss. No. 1,370,898; Mar. 8; v. 284; p. 262.
- Ores and oxygen compounds utilized as ores, Method of and furnace for reducing. F. M. Wiberg. No. 1,401,222; Dec. 27.
- Ores and solutions, Treating vanadium. A. H. Carpenter and G. A. Baumann. No. 1,393,748; Oct. 18.
- Ores and the like, also applicable to the requirements of mineral-dredging, Apparatus for classifying and concentrating minerals. W. W. Richardson. No. 1,374,472; Apr. 12; v. 285; p. 253.
- Ores, Apparatus for concentrating. R. Luckenbach. No. 1,370,601; Mar. 8; v. 284; p. 206.
- Ores, Apparatus for separating or concentrating. D. Cole. No. 1,375,211; Apr. 19; v. 285; p. 458.
- Ores, Apparatus for the concentration of. J. Hebbard. No. 1,380,650; June 7; v. 287; p. 61.
- Ores, Apparatus for the concentration of. F. J. Lyster. No. 1,380,665; June 7; v. 287; p. 65.
- Ores, Apparatus for treating. G. H. Clevenger. No. 1,379,083; May 24; v. 286; p. 698.
- Ores, Ball-mill for crushing. M. Vogel-Jorgensen. No. 1,374,410; Apr. 12; v. 285; p. 240.
- Ores by flotation, Apparatus for concentrating. Y. Otsuka. No. 1,393,821; Oct. 18.
- Ores by flotation, Concentrating. B. L. George. No. 1,375,957; Apr. 26; v. 285; p. 632.
- Ores, Concentration of. H. R. Robbins. No. 1,397,703; Nov. 22.
- Ores, Concentration of. H. R. Robbins. No. 1,398,394; Nov. 29.
- Ores, Concentration of. A. Schwarz. No. 1,394,958; Oct. 25.
- Ores, Desulfurization of zinc sulfid. G. Rigg. No. 1,401,733; Dec. 27.
- Ores, Extraction of metals from their. E. M. Hamilton. No. 1,399,554; Dec. 6.
- Ores, Extraction of vanadium, uranium, and radium. W. F. Bleeker. No. 1,399,246; Dec. 6.
- Ores, &c., Leaching. J. W. Hornsey. No. 1,398,723; Nov. 29.
- Ores, Magnetic separation of. C. Thom, R. W. Diamond, and S. G. Blaylock. No. 1,398,051; Nov. 22.
- Ores, Manufacture of zinc oxid direct from oxidized zinc. J. Allingham. No. 1,380,514; June 7; v. 287; p. 36.
- Ores, Manufacture of zinc oxid direct from oxidized zinc. J. Allingham. No. 1,380,515; June 7; v. 287; p. 36.
- Ores, Mechanical device for the removal of dust from the gases derived from roasting. L. Geschwind. No. 1,383,715; July 5; v. 288; p. 95.
- Ores, Method of and apparatus for separating sulfur from sulfur. N. E. Katz. No. 1,365,922; Jan. 18; v. 282; p. 447.
- Ores, mineral stones, &c., Machine for grinding. J. R. Broadley. No. 1,392,887; Oct. 4.
- Ores, minerals, &c., containing the same, Recovering an element capable of forming a haloid from. H. S. Booth and G. G. Marshall. No. 1,392,043; Sept. 27; v. 290; p. 729.
- Ores, minerals, &c., containing the same, Recovering an element capable of forming a haloid from. H. S. Booth and G. G. Marshall. No. 1,392,044; Sept. 27; v. 290; p. 729.
- Ores, minerals, &c., containing the same, Recovering beryllium from. H. S. Booth and G. G. Marshall. No. 1,392,045; Sept. 27; v. 290; p. 730.
- Ores, minerals, and other materials, Recovering beryllium from. H. S. Booth and G. G. Marshall. No. 1,392,046; Sept. 27; v. 290; p. 730.
- Ores, Obtaining metallic values from. W. A. Schmidt. No. 1,368,973; Feb. 15; v. 283; p. 512.
- Ores or concentrates, Roasting. P. R. Middleton. No. 1,376,025; Apr. 26; v. 285; p. 645.
- Ores preparatory to smelting, Treating. J. W. Hegeler. No. 1,378,411; May 17; v. 286; p. 497.
- Ores, Process and apparatus for recovering metallic values from. F. B. Church. No. 1,393,428; Oct. 11.
- Ores, Process of and apparatus for reducing and smelting. J. Lund. No. 1,365,113; Jan. 11; v. 282; p. 249.
- Ores, Recovering values from. E. A. Ashcroft. No. 1,388,086; Aug. 16; v. 289; p. 544.
- Ores, Recovery of sulfur from its. G. A. Bragg. No. 1,374,422; Apr. 12; v. 285; p. 243.



*Alphabetical list of inventions—Continued.*

- Ores, Reduction of. C. G. Collins. No. 1,372,483; Mar. 22; v. 284; p. 687.
- Ores, Reduction of iron and lead. R. J. Anderson. No. 1,381,689; June 14; v. 287; p. 311.
- Ores, Separation of mixed sulfid. C. Faul and H. Lavers. No. 1,375,087; Apr. 19; v. 285; p. 434.
- Ores, Smelting of. H. L. Charles. No. 1,394,472; Oct. 18.
- Ores, Treating. R. L. Lloyd. No. 1,378,699; May 17; v. 286; p. 555.
- Ores, Treating. G. Moore. No. 1,364,573; Jan. 4; v. 282; p. 101.
- Ores, Treating complex zinc-lead. S. Ganelln. No. 1,396,740; Nov. 15.
- Ores, Treatment of. J. H. Hirt. No. 1,375,002; Apr. 19; v. 285; p. 417.
- Ores, Treatment of iron. F. A. Eustis. No. 1,377,822; May 10; v. 286; p. 333.
- Ores, Treatment of zinc-bearing. H. W. Gepp. No. 1,395,811; Nov. 1.
- Organ-blower. R. H. Smith. No. 1,397,988; Nov. 22.
- Organ-pipe. C. S. Losh. No. 1,376,891; May 3; v. 286; p. 98.
- Organ, Reed-. W. A. Cook. No. 1,383,289; July 5; v. 288; p. 6.
- Organs, Automatic cut-out valve for self-playing. C. C. Russell. No. 1,400,240; Dec. 13.
- Organs, Key-coupler for. H. T. Depue. No. 1,376,682; May 3; v. 286; p. 56.
- Organs, Pneumatic action for pipe-. W. E. Austin. No. 1,388,318; Aug. 23; v. 289; p. 648.
- Organs, Swell for automatic. C. C. Russell. No. 1,400,239; Dec. 13.
- Orientator. W. G. Ruggles. No. 1,393,456; Oct. 11.
- Ornament-support. L. V. Aronson. No. 1,401,750; Dec. 27.
- Ornamental articles, Making. G. Dorso. No. 1,396,267; Nov. 8.
- Ornamental device or pompon. T. A. Bowers. No. 1,395,033; Oct. 25.
- Ornamental loops, Hand-tool for forming. C. Dublin. No. 1,373,059; Mar. 29; v. 284; p. 841.
- Ornamental surfaces, Producing. M. E. Gates. No. 1,399,425; Dec. 6.
- Ornamentations and finished article derived therefrom, Manufacturing. G. J. Engel. No. 1,395,911; Nov. 1.
- Orthodontic appliance. E. H. Angle. No. 1,366,628; Jan. 25; v. 282; p. 629.
- Orthodontic appliance. E. H. Angle. No. 1,367,851; Feb. 8; v. 283; p. 249.
- Orthodontic appliance. E. H. Angle and S. R. Atkinson. No. 1,398,761; Nov. 29.
- Orthodontic appliance. J. E. Johnson. No. 1,369,665; Feb. 22; v. 283; p. 687.
- Orthopedic appliance. J. F. Barry. No. 1,374,177; Apr. 12; v. 285; p. 196.
- Orthopedic appliance. R. A. Diadul, Jr. No. 1,381,290; June 14; v. 287; p. 236.
- Orthopedic appliance. L. S. Doyle. No. 1,401,056; Dec. 20.
- Orthopedic appliance. F. T. Tanner. No. 1,373,211; Mar. 29; v. 284; p. 872.
- Orthopedic metatarsal arch-support. M. D. Calculli. No. 1,385,664; July 26; v. 288; p. 704.
- Oscillation, Dynamic system adapted to impart to a mechanical system a rapid movement of. L. L. B. Denis. No. 1,393,671; Oct. 11.
- Oscillation-generating system. L. M. Clement. No. 1,395,390; Nov. 1.
- Oscillations, Means for producing high-frequency. W. C. White. No. 1,393,594; Oct. 11.
- Oscillations, Production of high-frequency. F. Cutting. No. 1,366,311; Jan. 18; v. 282; p. 522.
- Oscillatory movement to a driven element, Mechanism for imparting an. W. T. Edwards. No. 1,387,697; Aug. 16; v. 289; p. 468.
- Oscillatory movements, Apparatus for producing. C. Capsoni. No. 1,388,097; Aug. 16; v. 289; p. 547.
- Osteopathic instrument. C. E. Pollard. No. 1,398,150; Nov. 22.
- Osteopathic-treatment table. E. D. Holme. No. 1,400,546; Dec. 20.
- Quija-board. H. M. Bigelow. No. 1,400,791; Dec. 20.
- Outage-gage. E. J. Flynn. No. 1,378,536; May 17; v. 286; p. 521.
- Outboard-motor. R. B. Owen. No. 1,374,095; Apr. 5; v. 285; p. 139.
- Outer-ball-race extractor. E. P. Campbell. No. 1,367,016; Feb. 1; v. 283; p. 26.
- Outing-table. W. A. Snyder. No. 1,401,449; Dec. 27.
- Outlet-box. J. J. Rutledge. No. 1,383,487; July 5; v. 288; p. 47.
- Outlet-box. G. C. Thomas, Jr. No. 1,383,879; July 5; v. 288; p. 129.
- Outlet-box. W. H. Wood. No. 1,392,038; Sept. 27; v. 290; p. 729.
- Outlet-fitting. R. B. Benjamin. No. 1,395,084; Oct. 25.
- Outlet-plate. W. H. Pierson. No. 1,382,741; June 28; v. 287; p. 624.
- Outsole. F. H. Clapp. No. 1,364,250; Jan. 4; v. 282; p. 39.
- Oven. M. W. Hanks. No. 1,375,695; Apr. 26; v. 285; p. 583.
- Oven. O. C. Nuubson. No. 1,399,149; Dec. 6.
- Oven. E. W. Rogers. No. 1,395,524; Nov. 1.
- Oven. S. Trood. No. 1,393,650; Oct. 11.
- Oven. F. E. White. No. 1,381,527; June 14; v. 287; p. 280.
- Oven and charging mechanism, Coke-. E. Johnson and A. Nordquist. No. 1,382,916; June 28; v. 287; p. 657.
- Oven and warming closet. A. E. England. No. 1,392,129; Sept. 27; v. 290; p. 746.
- Oven, Annealing-. S. J. Booth, J. Terreault, and W. E. Burn. No. 1,364,694; Jan. 4; v. 282; p. 125.
- Oven attachment. J. C. Ramsay. No. 1,398,152; Nov. 22.
- Oven, Bake-. P. J. Delaney. No. 1,370,008; Mar. 1; v. 284; p. 48.
- Oven, Baker's. S. E. Cook. No. 1,401,392; Dec. 27.
- Oven, Baker's. J. J. Reid. No. 1,384,406; July 12; v. 288; p. 287.
- Oven, Baker's. G. F. Smith. No. 1,401,823; Dec. 27.
- Oven, Baker's. O. Wundrack. No. 1,391,157; Sept. 20; v. 290; p. 476.
- Oven, Baking-. W. H. Beanes. No. 1,368,015; Feb. 8; v. 283; p. 279.
- Oven, Baking-. W. H. Beanes. No. 1,394,706; Oct. 25.
- Oven, Baking-. J. K. Bradley. No. 1,385,662; July 26; v. 288; p. 703.
- Oven, Baking-. G. E. Cooper. No. 1,383,256; June 28; v. 287; p. 722.
- Oven, Baking-. J. J. Daoust. No. 1,364,255; Jan. 4; v. 282; p. 40.
- Oven, Baking-. H. E. Kerr. No. 1,391,835; Sept. 27; v. 290; p. 686.
- Oven, Baking-. E. E. Lindsey. No. 1,391,258; Sept. 20; v. 290; p. 497.
- Oven, Baking-. W. Roberts. No. 1,394,220; Oct. 18.
- Oven, Baking-. C. W. Zwelly. No. 1,366,686; Jan. 25; v. 282; p. 640.
- Oven-burner. S. S. Jewett. No. 1,393,786; Oct. 18.
- Oven, Coke-. S. Johnson and A. Nordquist. No. 1,382,917; June 28; v. 287; p. 657.
- Oven, Coke-. C. E. Lucke. No. 1,371,315; Mar. 15; v. 284; p. 405.
- Oven, Coke-. M. Mathy. No. 1,392,257; Sept. 27; v. 290; p. 772.
- Oven, Coke and gas. D. M. Rugg. No. 1,393,455; Oct. 11.
- Oven, Coking-. O. Piette. No. 1,370,481; Mar. 1; v. 284; p. 138.
- Oven, coking, Horizontal. O. Piette. No. 1,386,799; Aug. 9; v. 289; p. 237.
- Oven, Coking retort-. J. Becker. No. 1,374,546; Apr. 12; v. 285; p. 267.
- Oven, Coking retort-. H. Koppers. No. 1,369,673; Feb. 22; v. 283; p. 689.
- Oven, Collapsible sheet-metal. H. B. Reppetto. No. 1,396,059; Nov. 8.
- Oven, Convertible stove-. J. Kneier. No. 1,398,725; Nov. 29.
- Oven, Cooking-. F. Kessler, Sr. No. 1,394,310; Oct. 18.
- Oven, Decorating or annealing. C. E. Frazier. No. 1,389,583; Sept. 6; v. 290; p. 5.
- Oven, Distillation-. L. F. Schrader, W. E. Roberts, and V. Bredlik. No. 1,382,746; June 28; v. 287; p. 625.
- Oven-door. M. Thiery. No. 1,386,542; Aug. 2; v. 289; p. 113.
- Oven, Drying-. D. F. Domizi. No. 1,381,974; June 21; v. 287; p. 425.
- Oven, Electrically-heated bake-. J. C. Woodson. No. 1,378,080; May 17; v. 286; p. 435.
- Oven for cooking purposes, Electric. C. H. Lauth. No. 1,380,656; June 7; v. 287; p. 63.
- Oven, Gas-. G. W. Howes. No. 1,368,259; Feb. 15; v. 283; p. 374.
- Oven-heating system. E. Piron. No. 1,384,149; July 12; v. 288; p. 234.
- Oven, Horizontal coking-. O. Piette. No. 1,378,129; May 17; v. 286; p. 444.
- Oven, Matrix-scorching. S. T. Willson. No. 1,393,473; Oct. 11.
- Oven-rack. A. Vacaregga. No. 1,370,717; Mar. 8; v. 284; p. 229.
- Oven, Reel. J. Dalton and B. C. De Meulle. No. 1,399,750; Dec. 13.
- Oven, Reel-. I. King. No. 1,372,144; Mar. 22; v. 284; p. 622.
- Oven, Rotary. G. F. Smith. No. 1,401,824; Dec. 27.
- Oven, Rotary baking-. G. H. Harkrader. No. 1,388,256; Aug. 23; v. 289; p. 635.
- Oven, Rotatable. F. J. Kuhlmeier and F. Meyer. No. 1,377,592; May 10; v. 286; p. 287.
- Oven, Sectional baking-. E. E. Lindsey. No. 1,391,259; Sept. 20; v. 290; p. 497.
- Oven, Stove-. G. J. Marlon. No. 1,371,105; Mar. 8; v. 284; p. 802.
- Oven, Vacuum drying-. J. D. Taylor. No. 1,365,207; Jan. 11; v. 282; p. 267.
- Oven-wall construction. F. C. Haller. No. 1,378,346; May 17; v. 286; p. 484.
- Oven-wall construction. J. A. Miller. No. 1,393,954; Oct. 18.
- Ovens, Arrangement for heaters in electric. F. F. Forshee. No. 1,398,542; Nov. 29.
- Ovens, Automatic discharging apparatus for continuous vertical. J. Pieters. No. 1,381,004; June 7; v. 287; p. 131.
- Ovens, Conveyor-scraper for cereal-. A. Johnson. No. 1,367,549; Feb. 8; v. 283; p. 190.
- Ovens, Cover for Dutch. B. F. Wagner. No. 1,370,863; Mar. 8; v. 284; p. 256.



- Ovens, Drawplate of baking-. E. Farwell. No. 1,369,641; Feb. 22; v. 283; p. 682.
- Ovens, drying-rooms, &c., Conveying apparatus for. F. H. Curry. No. 1,382,957; June 28; v. 287; p. 665.
- Ovens, Feeding and extracting apparatus for rotary hearth. O. Schlaupitz. No. 1,372,781; Mar. 29; v. 284; p. 786.
- Ovens, Method and apparatus for producing a regular progression of materials in vertical. J. Pieters. No. 1,389,379; Aug. 30; v. 289; p. 913.
- Ovens, Turntable-rack for. O. L. Partonnar. No. 1,380,078; May 31; v. 286; p. 960.
- Ovens, Valve for. H. C. Maul. No. 1,381,129; June 14; v. 287; p. 207.
- Overalls. G. L. Campbell. No. 1,365,766; Jan. 18; v. 282; p. 416.
- Overalls. A. Kenrick. No. 1,366,809; Jan. 25; v. 282; p. 665.
- Overalls. P. T. Paxton. No. 1,369,538; Feb. 22; v. 283; p. 662.
- Overalls-bib. M. M. Logan. No. 1,375,163; Apr. 19; v. 285; p. 449.
- Overhead-carrier system. E. T. Bennington. No. 1,379,614; May 31; v. 286; p. 873.
- Overhead tramway-switch. C. T. Judd. No. 1,377,134; May 3; v. 286; p. 143.
- Overload-switch. M. H. Shoenberg. No. 1,378,730; May 17; v. 286; p. 559.
- Overshoe applicator. E. A. Ashlund. No. 1,374,544; Apr. 12; v. 285; p. 266.
- Overshoe, Driving. T. B. Funk. No. 1,370,423; Mar. 1; v. 284; p. 126.
- Overshoes, Manufacture of bellows-tongue. C. H. Morrill. No. 1,369,260; Feb. 22; v. 283; p. 608.
- Overwinding-preventer. D. E. Odom. No. 1,395,592; Nov. 1.
- Oxazols, Preparation of twice-substituted 2-4-diketo-tetrahydro-. J. Altwegg and D. Ebin. No. 1,375,949; Apr. 26; v. 285; p. 631.
- Oxid. Forming diphenyl. J. M. Johlin. No. 1,372,434; Mar. 22; v. 284; p. 677.
- Oxid. Manufacture of French. J. A. Singmaster. No. 1,372,462; Mar. 22; v. 284; p. 683.
- Oxid. Producing ferrous. A. J. McDougall. No. 1,367,409; Feb. 1; v. 283; p. 105.
- Oxids of nitrogen. Catalyzer for and producing. W. W. Scott. No. 1,399,807; Dec. 13.
- Oxids of nitrogen from atmospheric air, Process of and apparatus for obtaining. F. I. du Pont. No. 1,370,295; Mar. 1; v. 284; p. 102.
- Oxids of nitrogen, Making. A. H. White. No. 1,370,867; Mar. 8; v. 284; p. 256.
- Oxids. Reduction of metallic. C. M. Johnson. No. 1,370,021; Mar. 1; v. 284; p. 51.
- Oxids &c., without contamination, Method and apparatus for melting. E. F. Northrup. No. 1,378,189; May 17; v. 286; p. 455.
- Oxidation and reduction process and apparatus therefor. C. J. Thatcher. No. 1,397,562; Nov. 22.
- Oxidation of finely-subdivided material. W. N. Best. No. 1,397,791; Nov. 22.
- Oxidation of finely-subdivided material, Apparatus for. W. N. Best. No. 1,397,792; Nov. 22.
- Oxidation of orthocresol. Catalytic. J. M. Weiss and C. B. Downs. No. 1,380,277; May 31; v. 286; p. 998.
- Oxothermic chemical syntheses at high temperature and pressure, Apparatus for effecting. G. Claude. No. 1,371,299; Mar. 15; v. 284; p. 402.
- Oxyacetylene-blowpipe. I. Allison and W. J. Leighty. No. 1,384,224; July 12; v. 288; p. 249.
- Oxychloride, Making phosphorus. T. L. Bartleson. No. 1,381,783; June 14; v. 287; p. 329.
- Oxymercury nitrophenolate. J. F. Schamberg, G. W. Raiziss, and J. A. Kolmer. No. 1,390,972; Sept. 13; v. 290; p. 376.
- Oyster liquor, Conservation and preservation of. A. Babendreer. No. 1,371,541; Mar. 15; v. 284; p. 451.
- Oysters, Culling-table for. M. G. Jones. No. 1,377,689; May 10; v. 286; p. 306.
- Ozone-fume-removing apparatus. W. E. Gest. No. 1,378,104; May 17; v. 286; p. 439.
- Ozone-generator. E. L. Joseph. No. 1,368,560; Feb. 15; v. 283; p. 433.
- Ozonizer. W. G. Lindemann. No. 1,396,222; Nov. 8.
- Ozonizer. M. J. Napier. No. 1,379,776; May 31; v. 286; p. 902.
- Ozonizing substances, Apparatus for. A. J. Moisant. No. 1,368,346; Feb. 15; v. 283; p. 391.
- Pacifier. C. C. Borchers. No. 1,372,004; Mar. 22; v. 284; p. 595.
- Pack. Collated manifold. J. A. Wherry. No. 1,369,312; Feb. 22; v. 283; p. 617.
- Package. F. H. Angier. No. 1,385,165; July 19; v. 288; p. 526.
- Package. E. H. Angier. No. 1,395,661; Nov. 1.
- Package. C. T. Davis. No. 1,387,839; Aug. 16; v. 289; p. 497.
- Package, Candy-. B. Bonestell. No. 1,390,667; Sept. 13; v. 290; p. 338.
- Package. R. Sunderland. No. 1,367,569; Feb. 8; v. 283; p. 194.
- Package and forming same. E. J. Conley. No. 1,398,840; Nov. 29.
- Package-binder and books therefor and record-check. A. A. Glisson. No. 1,396,190; Nov. 8.
- Package, Candy-. B. Bonestell. No. 1,390,667; Sept. 13; v. 290; p. 315.
- Package-carrier. B. I. Lundstrom. No. 1,365,518; Jan. 11; v. 282; p. 328.
- Package, Merchandise-. G. C. Macdonald. No. 1,385,017; July 19; v. 288; p. 495.
- Package, Moisture-proof. W. A. Baetty. No. 1,369,159; Feb. 22; v. 283; p. 588.
- Package, Paper-. G. W. Fuerth. No. 1,364,743; Jan. 4; v. 282; p. 134.
- Package, Sealed-wrapped. J. S. Stokes. No. 1,382,752; June 28; v. 287; p. 626.
- Package-tie. G. F. Dillon. No. 1,388,176; Aug. 23; v. 289; p. 619.
- Package-tie. J. Murphy. No. 1,369,348; Feb. 22; v. 283; p. 625.
- Package-tie. C. G. Servis. No. 1,385,956; July 26; v. 288; p. 761.
- Package-tie. G. C. Snyder. No. 1,376,472; May 3; v. 286; p. 18.
- Packages, Apparatus for producing. H. de Escobales. No. 1,391,174; Sept. 20; v. 290; p. 479.
- Packages, Fastening device for. H. Morier. No. 1,374,023; Apr. 5; v. 285; p. 125.
- Packages, Machine for making and labeling. E. D. Anderson. No. 1,368,780; Feb. 15; v. 283; p. 476.
- Packages, Machine for tying. H. J. Schmidt. No. 1,392,972; Oct. 11.
- Packages, Production of. H. de Escobales. No. 1,381,087; June 7; v. 287; p. 147.
- Packaging and sealing perishable articles and the product thereof. J. Nusbaum. No. 1,399,270; Dec. 6.
- Packaging articles, Method of and apparatus for. H. de Escobales. No. 1,391,173; Sept. 20; v. 290; p. 479.
- Packaging device. M. B. Becker. No. 1,401,304; Dec. 27.
- Packaging digitalis. F. W. Heyl. No. 1,388,429; Aug. 23; v. 289; p. 671.
- Packaging-machine. G. L. Langer. No. 1,389,669; Sept. 6; v. 290; p. 22.
- Packaging-machine. F. L. Lloyd. No. 1,372,030; Mar. 22; v. 284; p. 600.
- Packaging machine, Collar-. W. A. Zeidler. No. 1,374,975; Apr. 19; v. 285; p. 411.
- Packaging means, Newspaper-. M. B. McNab. No. 1,369,448; Feb. 22; v. 283; p. 644.
- Packaging mechanism. J. C. Schaffer. No. 1,385,498; July 26; v. 288; p. 669.
- Packaging shoe, corset, and other laces, Device for. E. F. King. No. 1,372,884; Mar. 29; v. 284; p. 807.
- Packer, Mechanical. T. R. Cameron. No. 1,366,631; Jan. 25; v. 282; p. 630.
- Packet, Glass-treating. A. L. Clapp. No. 1,376,743; May 3; v. 286; p. 68.
- Packing. C. L. Heisler. No. 1,386,865; Aug. 9; v. 289; p. 251.
- Packing. T. J. McGrath. No. 1,383,001; June 28; v. 287; p. 673.
- Packing. G. A. Peters, Jr. No. 1,369,905; Mar. 1; v. 284; p. 29.
- Packing. G. W. Stewart. No. 1,381,942; June 21; v. 287; p. 419.
- Packing and making same. C. I. E. Mastin. No. 1,372,529; Mar. 22; v. 284; p. 696.
- Packing-box. O. Dahl. No. 1,387,690; Aug. 16; v. 289; p. 466.
- Packing-boxes, Wire-stretcher for. G. Neth. No. 1,396,229; Nov. 8.
- Packing-case. L. W. Hughes. No. 1,383,401; July 5; v. 288; p. 30.
- Packing-case. J. E. Mulcahy. No. 1,373,091; Mar. 29; v. 284; p. 847.
- Packing-cases and the like, Means for securing and sealing. T. H. Hansen. No. 1,374,652; Apr. 12; v. 285; p. 288.
- Packing condensers. F. E. Payne. No. 1,387,901; Aug. 16; v. 289; p. 509.
- Packing construction, Expanding-. J. W. Harasta. No. 1,396,836; Nov. 15.
- Packing device. G. Sykes. No. 1,398,405; Nov. 29.
- Packing, Expandable. J. J. Fisher. No. 1,386,097; Aug. 2; v. 289; p. 27.
- Packing for stuffing-boxes. A. J. Bailey. No. 1,367,003; Feb. 1; v. 283; p. 24.
- Packing-joint. W. B. Burke. No. 1,365,151; Jan. 11; v. 282; p. 257.
- Packing-machine. W. A. Mooney. No. 1,401,273; Dec. 27.
- Packing-machine. A. S. Spear. No. 1,365,741; Jan. 18; v. 282; p. 410.
- Packing, Machine for making. L. W. Helsing. No. 1,388,428; Aug. 23; v. 289; p. 671.
- Packing matches, Machinery for. N. L. Warner. No. 1,391,225; Sept. 20; v. 290; p. 490.
- Packing material. J. H. Shaw. No. 1,401,198; Dec. 27.
- Packing, Metallic. W. L. Harris. No. 1,383,943; July 5; v. 288; p. 142.
- Packing, Metallic. W. Sudekum. No. 1,366,219; Jan. 18; v. 282; p. 504.
- Packing, Metallic piston-. H. M. Bramberry. No. 1,382,465; June 21; v. 287; p. 518.
- Packing, Metallic piston-. H. M. Bramberry. No. 1,396,630; Nov. 8.
- Packing, Metallic rod-. J. Badeker. No. 1,370,679; Mar. 8; v. 284; p. 221.



## Alphabetical list of inventions—Continued.

- Packing, Metallic rod-. J. Badeker. No. 1,376,131; Apr. 26; v. 285; p. 666.
- Packing of oblong magnetic objects. A. S. Otto. No. 1,367,083; Feb. 1; v. 283; p. 40.
- Packing or filling material. Apparatus for manufacturing resilient. C. T. Ripley. No. 1,395,299; Nov. 1.
- Packing or lining material and producing the same. J. Gerritson. No. 1,372,947; Mar. 29; v. 284; p. 820.
- Packing-ring. H. Kistner. No. 1,393,542; Oct. 11.
- Packing-ring. E. R. Norman. No. 1,378,894; May 24; v. 286; p. 662.
- Packing-ring. H. Saucke. No. 1,364,814; Jan. 4; v. 282; p. 148.
- Packing-ring and piston. J. T. Wilson. No. 1,370,771; Mar. 8; v. 284; p. 239.
- Packing-rings. Combined follower and expander for. L. H. Donkel. No. 1,392,124; Sept. 27; v. 290; p. 745.
- Packing-rings. Manufacturing. C. P. Breeze. No. 1,368,887; Feb. 15; v. 283; p. 497.
- Packing-sheet. G. W. Stewart. No. 1,370,234; Mar. 1; v. 284; p. 91.
- Packing-table. C. W. Odermatt. No. 1,395,727; Nov. 1.
- Packing-ties. Binder for. O. L. Mertz. No. 1,370,755; Mar. 8; v. 284; p. 236.
- Packing-tool. K. Bergskaug. No. 1,393,605; Oct. 11.
- Packing, Yieldable. J. Ostrander. No. 1,381,931; June 21; v. 287; p. 417.
- Pad: See—
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|-----------------|----------------------|
| Absorbent pad.  | Knee-pad.            |
| Bed-pad.        | Pneumatic knee-pad.  |
| Copying-pad.    | Pressing-pad.        |
| Corset-top pad. | Removable trunk-pad. |
| Desk-pad.       | Rouge-pad.           |
| Felt pad.       | Stamp-inking pad.    |
| Heel-pad.       | Table-pad.           |
| Horseshoe-pad.  | Truss-pad.           |
| Lining-pad.     | Vulcanizing-pad.     |
- Pad-holding means. Adjustable. F. J. Kristofek. No. 1,376,945; May 3; v. 286; p. 108.
- Pad or mat. H. Freese. No. 1,395,227; Oct. 25.
- Pad-supporting stand. G. W. Smith. No. 1,379,132; May 24; v. 286; p. 708.
- Paddle-lock. J. Lucius. No. 1,368,341; Feb. 15; v. 283; p. 390.
- Paddle-wheel. A. Fortier. No. 1,390,523; Sept. 13; v. 290; p. 285.
- Padlock. C. Campanile. No. 1,389,858; Sept. 6; v. 290; p. 60.
- Padlock. S. R. Fraim. No. 1,380,053; May 31; v. 286; p. 956.
- Padlock. W. Kuc. No. 1,398,380; Nov. 29.
- Padlock. A. Kulikoff. No. 1,398,233; Nov. 29.
- Padlock. S. Segal. No. 1,387,187; Aug. 9; v. 289; p. 315.
- Padlock. A. Skutnik. No. 1,384,277; July 12; v. 288; p. 260.
- Padlock. L. Snyder. No. 1,367,104; Feb. 1; v. 283; p. 44.
- Padlock. F. Soley. No. 1,384,682; July 12; v. 288; p. 346.
- Padlock, Combination-. F. Anderson. No. 1,401,855; Dec. 27.
- Padlock, Combination-. W. S. McAdoo. No. 1,383,317; July 5; v. 288; p. 12.
- Padlock, Permutation-. E. W. Bellamy. No. 1,397,717; Nov. 22.
- Padlock, Permutation-. V. Öhrström. No. 1,375,603; Apr. 19; v. 285; p. 532.
- Padlock, Permutation-. E. E. Quaintance. No. 1,376,639; May 3; v. 286; p. 49.
- Padlock, Sealed. E. C. Washburn. No. 1,367,647; Feb. 8; v. 283; p. 209.
- Padlocks. Shackle for. G. M. Miller. No. 1,379,120; May 24; v. 286; p. 705.
- Page-marginer. Bottom and top. J. P. Beland. No. 1,376,936; May 3; v. 286; p. 117.
- Page-turner. S. Shibamura. No. 1,367,101; Feb. 1; v. 283; p. 44.
- Pail. J. H. Wilson. No. 1,385,413; July 26; v. 288; p. 651.
- Pail attachment. Milk-. H. Blair. No. 1,377,111; May 3; v. 286; p. 139.
- Pail. Safety and sanitary milk-. J. Carlson. No. 1,364,915; Jan. 11; v. 282; p. 211.
- Paint. J. H. Gravel. No. 1,367,597; Feb. 8; v. 283; p. 199.
- Paint. C. S. Hathaway. No. 1,374,161; Apr. 5; v. 285; p. 151.
- Paint. A. C. Holzapfel. No. 1,393,220; Oct. 11.
- Paint. E. Langfeldt. No. 1,397,103; Nov. 15.
- Paint. E. F. Mees. No. 1,396,970; Nov. 15.
- Paint. H. N. Wells. No. 1,374,128; Apr. 5; v. 285; p. 145.
- Paint and making same. C. Berg. No. 1,396,986; Nov. 15.
- Paint and making same. Cold-water. W. E. Carson. No. 1,390,496; Sept. 13; v. 290; p. 279.
- Paint and varnish removing process. D. P. Cleveland. No. 1,370,188; Mar. 1; v. 284; p. 82.
- Paint. Apparatus for use in connection with applying. C. S. Ash. No. 1,382,882; June 28; v. 287; p. 651.
- Paint composition. W. N. Blakeman, Jr. No. 1,375,353; Apr. 19; v. 285; p. 485.
- Paint composition. W. N. Blakeman, Jr. No. 1,375,355; Apr. 19; v. 285; p. 485.
- Paint composition. W. N. Blakeman, Jr. No. 1,385,034; July 19; v. 288; p. 499.
- Paint, Composition for. F. L. Buchanan. No. 1,381,274; June 14; v. 287; p. 233.
- Paint composition, Metallic. J. W. Murphy. No. 1,367,888; Feb. 8; v. 283; p. 255.
- Paint composition, Moistureproof. D. A. Jerone. No. 1,401,261; Dec. 27.
- Paint, fireproof. F. S. Vivas. No. 1,369,857; Mar. 1; v. 284; p. 20.
- Paint, fireproof. G. A. Wortelmann. No. 1,397,028; Nov. 15.
- Paint for masonry. S. W. Camp. No. 1,365,372; Jan. 11; v. 282; p. 299.
- Paint, fumigant. H. A. Gardner. No. 1,373,499; Apr. 5; v. 285; p. 24.
- Paint-guard. L. W. Hall. No. 1,386,706; Aug. 9; v. 289; p. 218.
- Paint, Making. T. Blass. No. 1,401,034; Dec. 20.
- Paint measuring and filling machine. H. C. Miller. No. 1,391,488; Sept. 20; v. 290; p. 543.
- Paint or varnish and making same. M. Darrin. No. 1,370,195; Mar. 1; v. 284; p. 83.
- Paint or varnish composition, &c., Acid-resisting. L. Wickenden. No. 1,398,084; Nov. 22.
- Paint-package. J. W. Hasburg. No. 1,366,654; Jan. 25; v. 282; p. 634.
- Paint-package. J. W. Hasburg. No. 1,375,001; Apr. 19; v. 285; p. 417.
- Paint-package and making it. G. W. Stahl. No. 1,398,403; Nov. 29.
- Paint-pail-supporting device. E. Garven. No. 1,398,851; Nov. 29.
- Paint-pot hanger. G. A. Hayes. No. 1,394,301; Oct. 18.
- Paint, Producing coal-tar. F. G. White. No. 1,396,674; Nov. 8.
- Paint, Ship's-bottom. S. Asakawa and K. Nosawa. No. 1,387,443; Aug. 16; v. 289; p. 417.
- Paint-vehicle. W. N. Blakeman, Jr. No. 1,375,352; Apr. 19; v. 285; p. 485.
- Paint vehicle and making same. G. Witty. No. 1,379,235; May 24; v. 286; p. 727.
- Paint-vehicle for anhydrous pigments. W. N. Blakeman, Jr. No. 1,375,354; Apr. 19; v. 285; p. 485.
- Paint vehicle for anhydrous pigments. W. N. Blakeman, Jr. No. 1,385,033; July 19; v. 288; p. 499.
- Paints and making the same. Vehicle for. H. A. Gardner. No. 1,370,106; Mar. 1; v. 284; p. 66.
- Paints, Lead-flattening product for lead. W. E. Wright. No. 1,370,575; Mar. 8; v. 284; p. 200.
- Paints, varnishes, enamels, &c., Drying or setting. H. B. and F. E. Hartman. No. 1,395,569; Nov. 1.
- Paintbrush carrying and preserving case. O. C. Sather. No. 1,373,766; Apr. 5; v. 285; p. 74.
- Paintbrush-ferrule and making same. F. Joerger. No. 1,375,847; Apr. 26; v. 285; p. 610.
- Painting articles in bulk. Apparatus for automatically. J. E. Karl. No. 1,391,388; Sept. 20; v. 290; p. 523.
- Painting device. F. E. Fornwalt. No. 1,380,950; June 7; v. 287; p. 120.
- Painting-machine. T. R. Willwerscheid. No. 1,375,126; Apr. 19; v. 285; p. 441.
- Painting machine, Pipe-. C. A. McNulty. No. 1,368,816; Feb. 15; v. 283; p. 483.
- Paintings, Reproducing oil-. H. P. G. Steedman. No. 1,376,653; May 3; v. 286; p. 51.
- Paintings, Reproduction of oil-. H. P. G. Steedman. No. 1,376,652; May 3; v. 286; p. 51.
- Palatal bar. H. Aderer. No. 1,392,612; Oct. 4.
- Pallet. C. A. Denney. No. 1,395,483; Nov. 1.
- Pamphlet and making same. C. W. Williams. No. 1,366,990; Feb. 1; v. 283; p. 21.
- Pan: See—
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|--------------------|-----------------|
| Ash-pan.           | Dry pan.        |
| Bake-pan.          | Dustpan.        |
| Cake-baking pan.   | Frying-pan.     |
| Cascade-pan.       | Pie-pan.        |
| Concentrating-pan. | Sinter-pan.     |
| Drain-pan.         | Trip-scale pan. |
- Pan and skimmer. Evaporating-. E. B. Poole. No. 1,385,393; July 26; v. 288; p. 647.
- Pan, Bake-. W. C. Hansen. No. 1,396,684; Nov. 8.
- Pan handle and support, Combined. A. Sechrist. No. 1,395,301; Nov. 1.
- Pan-rack. J. Singer. No. 1,394,947; Oct. 25.
- Panchromatic sensitizing composition. W. Friese-Greene. No. 1,383,620; July 5; v. 288; p. 75.
- Pane-fastener. C. J. Soil. No. 1,385,725; July 26; v. 288; p. 716.
- Panel. G. H. Gneiss and C. J. Peterson. No. 1,400,950; Dec. 20.
- Panel. H. J. Haon. No. 1,393,359; Oct. 11.
- Panel-board fitting. G. B. Thomas. No. 1,374,123; Apr. 5; v. 285; p. 144.
- Panel-board structure and branch-block units. J. Cuthbert and J. J. Nielsen. No. 1,389,343; Aug. 30; v. 289; p. 906.
- Panel-boards and the like. Door-operated switch for. W. Wurdack. No. 1,364,674; Jan. 4; v. 282; p. 121.
- Panel-clamp. W. A. Swartz. No. 1,379,882; May 31; v. 286; p. 923.
- Panel, Recurving-. G. B. Crouse and I. H. Mills. No. 1,370,093; Mar. 1; v. 284; p. 64.



- Panel, Wooden. E. K. Kepley and C. A. Cole. No. 1,374,580; Apr. 12; v. 285; p. 274.
- Panels, Making long ply-wood. G. R. Meyercord. No. 1,396,971; Nov. 15.
- Paneled structure. C. W. Dake. No. 1,371,667; Mar. 15; v. 284; p. 475.
- Pantograph. R. C. Emmerling. No. 1,383,914; July 5; v. 288; p. 135.
- Pantograph apparatus. F. Ritchie. No. 1,393,572; Oct. 11.
- Paper and fiber board, Making. A. L. Clapp. No. 1,389,936; Sept. 6; v. 290; p. 76.
- Paper and ink therefor, Transfer-. H. Kruse. No. 1,393,142; Oct. 11.
- Paper and paper-like materials waterproof and impermeable to air, at the same time maintaining their suppleness, and articles made from such materials, Making. L. Heilbronner. No. 1,387,004; Aug. 9; v. 289; p. 281.
- Paper and paper-towel dispenser, Toilet-. N. S. Hillyard. No. 1,400,677; Dec. 20.
- Paper, Apparatus for applying adhesive to wrapping-. W. J. Elder and C. N. Morehouse. No. 1,399,051; Dec. 6.
- Paper, Apparatus for heading rolls of. J. B. West and L. J. Walz. No. 1,394,700; Oct. 25.
- Paper, Apparatus for printing on waxed. G. H. Petri. No. 1,387,941; Aug. 16; v. 289; p. 516.
- Paper bags, Machine for making. L. W. Welsford. No. 1,400,587; Dec. 20.
- Paper-binder. C. F. McBees. No. 1,374,594; Apr. 12; v. 285; p. 277.
- Paper box. E. W. Labombarde. No. 1,365,251; Jan. 11; v. 282; p. 276.
- Paper box and manufacture thereof. R. J. Gruenberg. No. 1,367,378; Feb. 1; v. 283; p. 99.
- Paper box, Collapsible. R. Alexander. No. 1,368,597; Feb. 15; v. 283; p. 440.
- Paper-box construction. H. B. Smith. No. 1,364,897; Jan. 11; v. 282; p. 208.
- Paper-box construction. H. B. Smith. No. 1,364,898; Jan. 11; v. 282; p. 208.
- Paper box construction. H. B. Smith. No. 1,397,608; Nov. 22.
- Paper box, Covered. H. B. Smith. No. 1,364,899; Jan. 11; v. 282; p. 208.
- Paper-box machine. C. C. Davis. No. 1,383,697; July 5; v. 288; p. 91.
- Paper-box machine. J. T. Robinson. G. E. Gooding, and D. J. Russo. No. 1,392,969; Oct. 11.
- Paper box or carton. E. Eisenkraft. No. 1,370,525; Mar. 8; v. 284; p. 191.
- Paper-box shell. H. B. Smith. No. 1,364,896; Jan. 11; v. 282; p. 208.
- Paper boxes, Making covered. H. B. Smith. No. 1,386,373; Aug. 2; v. 289; p. 81.
- Paper can. E. B. Bicker. No. 1,368,102; Feb. 8; v. 283; p. 295.
- Paper can, Oilproof and greaseproof. T. M. Godfrey. No. 1,395,272; Nov. 1.
- Paper, cardboard, &c., Apparatus for scoring, punching, and cutting. W. Rose. No. 1,373,355; Mar. 29; v. 284; p. 901.
- Paper-catcher. L. La Veck. No. 1,387,602; Aug. 16; v. 289; p. 449.
- Paper centering-cups or the like, Making. H. de Olaneta. No. 1,385,431; July 26; v. 288; p. 655.
- Paper chest-protector. E. L. Henderson. No. 1,390,034; Sept. 6; v. 290; p. 96.
- Paper-clip. C. C. Collette. No. 1,378,525; May 17; v. 286; p. 519.
- Paper-clip. J. T. Du Bois and F. B. Harter. No. 1,395,803; Nov. 1.
- Paper-clip. H. H. Febrey. No. 1,376,753; May 3; v. 286; p. 70.
- Paper-clip. J. E. Stark. No. 1,369,717; Feb. 22; v. 283; p. 697.
- Paper closures from milk-bottles, Device for removing. R. C. Groh. No. 1,386,056; Aug. 2; v. 289; p. 19.
- Paper, Coated. H. R. Rafsky. No. 1,374,112; Apr. 5; v. 285; p. 142.
- Paper container. H. Drysdale. No. 1,397,756; Nov. 22.
- Paper container. A. Obici. No. 1,368,963; Feb. 15; v. 283; p. 511.
- Paper container. G. R. Penn. No. 1,396,282; Nov. 8.
- Paper-container machinery. J. T. Bond. No. 1,401,132; Dec. 27.
- Paper, Core for rolls of. H. Parker. No. 1,397,143; Nov. 15.
- Paper, Core for rolls of. H. Parker. No. 1,397,542; Nov. 22.
- Paper-crinkling apparatus. W. M. Wheelton. No. 1,383,360; July 5; v. 288; p. 21.
- Paper-cup holder. G. J. Bohlman. No. 1,381,536; June 14; v. 287; p. 282.
- Paper-cup holder. H. Moore. No. 1,389,594; Sept. 6; v. 290; p. 7.
- Paper-cuspidor holder. L. G. Sharyon. No. 1,388,771; Aug. 23; v. 289; p. 737.
- Paper cut to strips for spinning purposes, Apparatus for wetting the. E. Jagenberg. No. 1,367,050; Feb. 1; v. 283; p. 33.
- Paper-cutter. F. J. Bofsky. No. 1,398,711; Nov. 29.
- Paper-cutting device. G. Spiess. No. 1,400,777; Dec. 20.
- Paper-cutting device. E. E. Strawn. No. 1,398,474; Nov. 29.
- Paper-cutting machine. V. L. Fidler. No. 1,365,475; Jan. 11; v. 282; p. 320.
- Paper, Delivery mechanism for machines for operating on. H. G. Widmer. No. 1,382,583; June 21; v. 287; p. 540.
- Paper, Device for taking sheets from a stack of. W. E. Molins. No. 1,382,213; June 21; v. 287; p. 468.
- Paper, &c., Dipping-vat for building-. C. M. Clarke. No. 1,381,967; June 21; v. 287; p. 424.
- Paper-dispenser. W. N. Friend. No. 1,379,756; May 31; v. 286; p. 899.
- Paper dispenser, Sheet-. H. P. Dickerson. No. 1,377,565; May 10; v. 286; p. 282.
- Paper dispenser, Toilet-. J. H. Sellers. No. 1,383,245; June 28; v. 287; p. 720.
- Paper-dispensing device. A. Simpson. No. 1,384,604; July 12; v. 288; p. 337.
- Paper drinking-cup. G. J. Bohlman. No. 1,381,537; June 14; v. 287; p. 282.
- Paper drinking-cups, Cabinet for. W. E. Swift. No. 1,379,228; May 24; v. 286; p. 726.
- Paper, &c., Electrical drier for. W. C. Baldwin. No. 1,401,303; Dec. 27.
- Paper, Engine-sizing for. J. A. De Cew. No. 1,401,525; Dec. 27.
- Paper-fastener. F. J. Kline. No. 1,378,242; May 17; v. 286; p. 465.
- Paper-fastener. F. W. Shute. No. 1,396,790; Nov. 15.
- Paper-fastening machine. M. R. Hutchison. No. 1,365,408; Jan. 11; v. 282; p. 306.
- Paper feeding and collating device. E. Marcuson. No. 1,370,660; Mar. 8; v. 284; p. 217.
- Paper feeding and cutting mechanism. L. C. Palmer. No. 1,386,019; Aug. 2; v. 289; p. 11.
- Paper-feeding machine. T. E. Breen. No. 1,382,951; June 28; v. 287; p. 664.
- Paper-feeding machine. C. S. Hanau. No. 1,376,875; May 3; v. 286; p. 95.
- Paper-feeding machine. J. Kleidman. No. 1,374,303; Apr. 12; v. 285; p. 219.
- Paper-feeding machine. F. Patak. No. 1,366,484; Jan. 25; v. 282; p. 601.
- Paper-feeding means for size-tubes. A. L. Little and G. W. Verow. No. 1,390,997; Sept. 20; v. 290; p. 443.
- Paper-feeding mechanism. H. de Escobales. No. 1,383,267; June 28; v. 287; p. 724.
- Paper-feeding mechanism. W. M. Kelly. No. 1,401,707; Dec. 27.
- Paper-feeding mechanism. L. Martin. No. 1,373,254; Mar. 29; v. 284; p. 881.
- Paper-feeding mechanism. C. F. Pfanze. No. 1,378,194; May 17; v. 286; p. 456.
- Paper-feeding mechanism. C. Spiro. No. 1,383,775; July 5; v. 288; p. 108.
- Paper felt. A. L. Clapp. No. 1,372,640; Mar. 22; v. 284; p. 717.
- Paper, fiber-board, and similar materials, Making. J. C. Peabody. No. 1,376,353; Apr. 26; v. 285; p. 708.
- Paper-filler and making the same. W. N. Kohlins. No. 1,390,297; Sept. 13; v. 290; p. 240.
- Paper-finishing machine. H. P. Howe. No. 1,371,372; Mar. 15; v. 284; p. 417.
- Paper-folding machine. A. Olson. No. 1,390,213; Sept. 6; v. 290; p. 131.
- Paper-gripper. E. L. Megill. No. 1,388,964; Aug. 30; v. 289; p. 830.
- Paper-gripping device. S. Becker. No. 1,378,648; May 17; v. 286; p. 543.
- Paper-holder. K. Cooper. No. 1,365,383; Jan. 11; v. 282; p. 302.
- Paper-holder. W. J. Heintz. No. 1,370,314; Mar. 1; v. 284; p. 106.
- Paper-holder. W. L. Weeks. No. 1,398,308; Nov. 29.
- Paper-holder. T. F. Zwilling. No. 1,378,753; May 17; v. 286; p. 563.
- Paper holder, Toilet-. J. F. Killian. No. 1,391,326; Sept. 20; v. 290; p. 511.
- Paper, Impression-. S. E. Schuer. No. 1,377,368; May 10; v. 286; p. 246.
- Paper-interfolding machine. W. T. Lazar. No. 1,372,173; Mar. 22; v. 284; p. 627.
- Paper-machine drums, Dewatering mechanism for. J. C. Glenn. No. 1,374,198; Apr. 12; v. 285; p. 199.
- Paper, Machine for surface-finishing. H. P. Howe. No. 1,394,016; Oct. 18.
- Paper-machines, Fiber-crossing apparatus for. G. S. Witham, Jr. No. 1,383,363; July 5; v. 288; p. 22.
- Paper-machines, Suction-box for. M. Wengel. No. 1,366,986; Feb. 1; v. 283; p. 21.
- Paper-making. C. E. Pope. No. 1,369,124; Feb. 22; v. 283; p. 582.
- Paper, Making colored. L. P. Winchenbaugh and L. Gentile. No. 1,384,290; July 12; v. 288; p. 263.
- Paper-making machine. C. S. Bird. No. 1,381,272; June 14; v. 287; p. 233.
- Paper-making machine. D. L. Brown. No. 1,370,184; Mar. 1; v. 284; p. 81.
- Paper-making machine. L. E. Milkey. No. 1,387,061; Aug. 9; v. 289; p. 291.
- Paper-making machines, Suction-box for. G. S. Johnson. No. 1,375,517; Apr. 19; v. 285; p. 516.
- Paper-making purposes, Apparatus for washing pulp for. S. Milne. No. 1,367,707; Feb. 8; v. 283; p. 221.
- Paper, Making water-resistant. W. Hoskins. No. 1,370,650; Mar. 8; v. 284; p. 215.



## Alphabetical list of inventions—Continued.

- Paper, Manufacture of moisture-proof crape. A. E. Currier. No. 1,390,276; Sept. 13; v. 290; p. 236.
- Paper, Manufacture of wall-. H. C. Jarvis. No. 1,387,724; Aug. 16; v. 289; p. 474.
- Paper, Means for feeding sheets of. S. Payne and E. Stoff. No. 1,391,271; Sept. 20; v. 290; p. 499.
- Paper, Method and apparatus for coating. F. P. Reed. No. 1,394,444; Oct. 18.
- Paper, Method of and apparatus for saturating. C. A. Cooney. No. 1,389,630; Sept. 6; v. 290; p. 14.
- Paper, Method of and apparatus for waxing. J. Decker and A. C. Van Sluys. No. 1,385,042; July 19; v. 288; p. 500.
- Paper, Method of and means for embossing. H. R. Harrigan. No. 1,388,641; Aug. 23; v. 89; p. 711.
- Paper-molding machine. A. R. Boles. No. 1,367,116; Feb. 1; v. 283; p. 46.
- Paper, Negotiable. C. D. Gratton. No. 1,378,673; May 17; v. 286; p. 548.
- Paper or bill file. H. Helzman and S. Brainin. No. 1,396,428; Nov. 8.
- Paper or felt, Method of and apparatus for producing felt. G. R. Wyman. No. 1,388,685; Aug. 23; v. 289; p. 720.
- Paper or pulp containers, Machine for making flanged heads or ends for. F. Coates. No. 1,393,752; Oct. 18.
- Paper or wooden boxes, Covering. O. W. Trilisch. No. 1,386,384; Aug. 2; v. 289; p. 82.
- Paper pack, Interfolded. C. E. Swick. No. 1,378,063; May 17; v. 286; p. 432.
- Paper package and manufacturing same, Interfolded. D. W. Hudson. No. 1,381,307; June 14; v. 287; p. 239.
- Paper package-fasteners, Machine for making. T. H. Krueger. No. 1,390,245; Sept. 6; v. 290; p. 137.
- Paper package-fasteners, Making. T. H. Krueger. No. 1,390,211; Sept. 6; v. 290; p. 131.
- Paper-packages, Machine for producing interfolded. S. Wheeler. No. 1,393,415; Oct. 11.
- Paper-packages, Suspension device for. P. D. Parsons. No. 1,379,719; May 31; v. 286; p. 892.
- Paper pasteboard, pulp, &c., Composition of matter for impregnating articles made of. J. Crespo. No. 1,401,524; Dec. 27.
- Paper paster and trimmer, Wall-. H. L. Markley. No. 1,371,920; Mar. 15; v. 284; p. 522.
- Paper-pulp, &c., Device for leading away and distributing fiber strips in manufacturing rovings from. F. P. Priem. No. 1,392,283; Sept. 27; v. 290; p. 777.
- Paper-pulp, Machine for producing rovings from. F. P. Priem. No. 1,392,282; Sept. 27; v. 290; p. 777.
- Paper-punch. R. J. Lackner. No. 1,368,443; Feb. 15; v. 283; p. 410.
- Paper receptacle. G. W. Throop and J. W. Dundon. No. 1,383,173; June 28; v. 287; p. 706.
- Paper receptacle or tray. A. T. Van Alstyn. No. 1,398,611; Nov. 29.
- Paper, Recovering used. R. A. Marr. No. 1,396,227; Nov. 8.
- Paper, Reinforced. J. A. Greenlee. No. 1,365,483; Jan. 11; v. 282; p. 321.
- Paper-reinforcing machine. A. Schwartz. No. 1,383,243; June 28; v. 287; p. 719.
- Paper-reinforcing machine. K. Wandel. No. 1,368,588; Feb. 15; v. 283; p. 439.
- Paper remover, Steam wall-. A. W. Tucker. No. 1,391,350; Sept. 20; v. 290; p. 515.
- Paper-roll-dispensing machine. B. Miller. No. 1,380,729; June 7; v. 287; p. 77.
- Paper-roll holder and cutter. E. O. Bulman. No. 1,400,521; Dec. 20.
- Paper-roll storage and delivery gallery. R. R. McCormick. No. 1,383,318; July 5; v. 288; p. 12.
- Paper rolls, Means for making toilet-. P. D. Parsons. No. 1,379,718; May 31; v. 286; p. 892.
- Paper -ruling -pen underlift. C. J. La Vigueur. No. 1,383,314; July 5; v. 288; p. 11.
- Paper separating and feeding mechanism. L. E. Morrison. No. 1,394,181; Oct. 18.
- Paper sheet, Blasting. G. S. Clark. No. 1,376,676; May 3; v. 286; p. 55.
- Paper, Sheet-feeding mechanism for. E. E. Palmer. No. 1,394,574; Oct. 25.
- Paper sheets, Permanent binder for. H. H. Mills. No. 1,372,161; Mar. 22; v. 284; p. 625.
- Paper-spoons and other flat paper utensils. G. P. Mallory. No. 1,394,037; Oct. 18.
- Paper-stock-treating machine. M. C. J. Billingham. No. 1,384,987; July 19; v. 288; p. 489.
- Paper-stock-treating machine. M. C. J. Billingham. No. 1,399,184; Dec. 6.
- Paper-stock-treating machine. W. J. Herrbold. No. 1,391,056; Sept. 20; v. 290; p. 455.
- Paper strips, Machine for producing narrow. F. P. Priem. No. 1,392,218; Sept. 27; v. 290; p. 764.
- Paper support, Writing-. F. Gilman. No. 1,380,895; June 7; v. 287; p. 109.
- Paper tape, Apparatus for dispensing and printing. A. H. Marshall. No. 1,392,692; Oct. 4.
- Paper-tape-magazine holders, Advertising device for. R. H. Biggs. No. 1,377,180; May 10; v. 286; p. 208.
- Paper-tape-magazine holders, Advertising device for. R. H. Biggs. No. 1,377,181; May 10; v. 286; p. 208.
- Paper-tester. G. S. Witham, Jr. No. 1,385,164; July 19; v. 288; p. 526.
- Paper towel. C. M. and P. Conradson. No. 1,384,515; July 12; v. 288; p. 310.
- Paper, Transferring or embossing. A. L. Clapp. No. 1,398,770; Nov. 29.
- Paper, Treating. A. E. Currier and A. F. Schenkelberger. No. 1,368,547; Feb. 15; v. 283; p. 431.
- Paper-trimming means. H. F. Fortner. No. 1,376,264; Apr. 26; v. 285; p. 690.
- Paper tube and container. C. H. Howard. No. 1,383,809; July 5; v. 288; p. 115.
- Paper tubing, Flexible. E. Keller. No. 1,388,467; Aug. 23; v. 289; p. 679.
- Paper with a paraffin, Treating. G. W. Miles. No. 1,367,274; Feb. 1; v. 283; p. 78.
- Papers and other materials, Fastener for. C. P. Sibley. No. 1,397,787; Nov. 22.
- Papers and others materials, Fastener for. C. P. Sibley. No. 1,394,123; Oct. 18.
- Papers, Enamel for. R. Heim. No. 1,381,991; June 21; v. 287; p. 428.
- Papering machine, Wall-. S. Pytlak. No. 1,395,519; Nov. 1.
- Paraffining-machine. H. A. Sévigné. No. 1,399,160; Dec. 6.
- Parachute. F. Baker. No. 1,390,598; Sept. 13; v. 290; p. 300.
- Parachute. E. R. Calthrop. No. 1,369,395; Feb. 22; v. 283; p. 634.
- Parachute. E. R. Calthrop. No. 1,393,082; Oct. 11.
- Parachute. F. J. Coughlin. No. 1,387,455; Aug. 16; v. 289; p. 419.
- Parachute. F. Smith. No. 1,366,843; Jan. 25; v. 282; p. 671.
- Parachute and folding same. L. C. Mitchell. No. 1,388,303; Nov. 29.
- Parachute and pack, Aviator's. A. C. Scott. No. 1,378,382; May 17; v. 286; p. 491.
- Parachute and safety-belt. L. B. Sperry. No. 1,369,139; Feb. 22; v. 283; p. 585.
- Parachute-harness. E. R. Boland. No. 1,385,773; July 26; v. 288; p. 726.
- Parachute pack and harness. F. Smith. No. 1,367,723; Feb. 8; v. 283; p. 224.
- Parachute pack and harness. O. Summers. No. 1,386,971; Aug. 9; v. 289; p. 272.
- Parachutes, Automatic opener for. F. M. Lemon. No. 1,394,201; Oct. 18.
- Parachutes, Landing attachment for. F. Smith. No. 1,378,198; May 17; v. 286; p. 457.
- Paraffining-machine. H. L. Clark and J. H. Sower. No. 1,395,258; Nov. 1.
- Parallel-alinement fixture. E. A. Roehl. No. 1,369,472; Feb. 22; v. 283; p. 649.
- Parallel ground-throw switch-stand. T. H. Edelblute. No. 1,393,677; Oct. 11.
- Paranitroacetanilid, Manufacture of paranitroanilin from. K. Kasai. No. 1,400,555; Dec. 20.
- Parasol. S. Stevens. No. 1,387,740; Aug. 16; v. 289; p. 477.
- Parcel-carrier. W. L. Campbell and A. E. Straughan. No. 1,390,339; Sept. 13; v. 290; p. 248.
- Parcel-post container. H. Blandford. No. 1,373,292; Mar. 29; v. 284; p. 888.
- Parcels, bales, and loads of goods, &c., Means of handling, sorting, and distributing. G. E. Lloyd. No. 1,380,988; June 7; v. 287; p. 128.
- Parer, Fruit and vegetable. P. Sporer. Nos. 1,399,901-2; Dec. 13.
- Parer, slicer, &c., Combined vegetable. H. C. Heffner. No. 1,367,876; Feb. 8; v. 283; p. 254.
- Paring and pitting knife. S. J. Dunkley. No. 1,374,289; Apr. 12; v. 285; p. 217.
- Paring, coring, and slicing machine, Apple. W. Ehrlich. No. 1,384,013; July 5; v. 288; p. 157.
- Paring device. R. C. Glassco. No. 1,373,882; Apr. 5; v. 285; p. 98.
- Paring-knife. F. D. Warren. No. 1,374,167; Apr. 5; v. 285; p. 152.
- Paring machine, Vegetable. C. E. Gabrio. No. 1,399,858; Dec. 13.
- Parking-light. J. J. Rohde. No. 1,383,569; July 5; v. 288; p. 64.
- Parting-knife. R. Lefebvre. No. 1,397,691; Nov. 22.
- Partition and door, Steel. A. S. Hughes. No. 1,373,074; Mar. 29; v. 284; p. 844.
- Partition and hollow door, Steel. A. S. Hughes. No. 1,373,191; Mar. 29; v. 284; p. 868.
- Partition forming and attaching machine. W. Goodell. No. 1,400,876; Dec. 20.
- Passenger and freight transfer system. W. P. Lamar. No. 1,366,008; Jan. 18; v. 282; p. 463.
- Paste-applying apparatus. F. Coates. No. 1,384,048; July 12; v. 288; p. 213.
- Paste-applying machine. F. Coates. No. 1,393,505; Oct. 11.
- Paste-dispensing device. W. A. Daniel. No. 1,384,307; July 12; v. 288; p. 266.
- Paste-receptacle. W. F. Ellis. No. 1,377,567; May 10; v. 286; p. 283.
- Paste, Sealing-. F. E. Key. No. 1,391,738; Sept. 27; v. 290; p. 667.
- Paste, Stainless. D. M. Phillips. No. 1,384,917; July 19; v. 288; p. 474.



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- Pastes that may be poured, Producing. E. Weber. No. 1,394,241; Oct. 18.
- Pasteboard cases and means therefor, Manufacture of. P. J. and A. L. Pomeon. No. 1,388,888; Aug. 30; v. 289; p. 814.
- Pasteurizer. K. K. Wright. No. 1,377,742; May 10; v. 286; p. 316.
- Pasteurizing apparatus. A. Hostettler. No. 1,367,517; Feb. 1; v. 283; p. 126.
- Pasteurizing apparatus. H. G. Liebrecht. No. 1,371,038; Mar. 8; v. 284; p. 289.
- Pasteurizing whey, Apparatus for. D. E. Norleen. No. 1,390,308; Sept. 13; v. 290; p. 242.
- Pasting device. T. Dean. No. 1,396,998; Nov. 15.
- Pastry-board. C. L. Leonard. No. 1,375,399; Apr. 19; v. 285; p. 493.
- Pastry-forming device. D. B. Levy. No. 1,376,711; May 3; v. 286; p. 62.
- Pastry-making machine. J. B. Meltz. No. 1,379,643; May 31; v. 286; p. 878.
- Pastry-making machines, Stop mechanism for. F. A. Bruckman. No. 1,379,080; May 24; v. 286; p. 697.
- Pastry-shaping device. I. Israel. No. 1,379,987; May 31; v. 286; p. 943.
- Patch and holder therefor, Blow-out. C. L. Durham. No. 1,369,410; Feb. 22; v. 283; p. 637.
- Patch, Blow-out. O. H. Bartholomew. No. 1,370,778; Mar. 8; v. 284; p. 240.
- Patches, Mold for curing and forming blow-out. C. M. Anderson. No. 1,372,215; Mar. 22; v. 284; p. 636.
- Patella-splint. W. Grundmann. No. 1,375,507; Apr. 19; v. 285; p. 514.
- Pattern: See—  
     Garment-pattern.                      Smocking-pattern.  
     Ring-casting pattern.
- Pattern and guide strip. S. H. Calkins. No. 1,371,857; Mar. 15; v. 284; p. 511.
- Pattern-cutting machine. A. F. Preston. No. 1,383,023; June 28; v. 287; p. 678.
- Pattern-drawing machine. W. C. Norcross. No. 1,378,186; May 17; v. 286; p. 454.
- Pattern for making clothing. G. E. Serak. No. 1,394,583; Oct. 25.
- Pattern letter and numeral. H. P. Maughlin. No. 1,379,641; May 31; v. 286; p. 878.
- Pattern or guide, Neck-shaving. W. T. Sessoms. No. 1,385,722; July 26; v. 288; p. 715.
- Pattern-plate. E. F. McTighe. No. 1,369,683; Feb. 22; v. 283; p. 690.
- Pattern, Rail-connecting chair-plate. C. J. Shields. No. 1,378,728; May 17; v. 286; p. 559.
- Patterns from molds, Removing. V. Lougheed. No. 1,364,124; Jan. 4; v. 282; p. 15.
- Pavement. M. H. Benson and C. A. Carpenter. No. 1,369,161; Feb. 22; v. 283; p. 589.
- Pavement. J. R. Draney. No. 1,364,620; Jan. 4; v. 282; p. 111.
- Pavement. W. E. Hassam. No. 1,365,687; Jan. 18; v. 282; p. 400.
- Pavement and making same. G. A. Henderson. No. 1,370,815; Mar. 8; v. 284; p. 247.
- Pavement construction. F. A. Brotsch, Jr. No. 1,384,042; July 12; v. 288; p. 212.
- Pavement material, Laying bituminous. F. B. Bosch. No. 1,366,711; Jan. 25; v. 282; p. 645.
- Pavement, Wood-block. H. G. Jennison. No. 1,395,829; Nov. 1.
- Pavements, Device for finishing concrete. W. L. Ashmore and H. R. Powell. No. 1,364,604; Jan. 4; v. 282; p. 107.
- Pavements, Device for finishing concrete. W. L. Ashmore and H. R. Powell. No. 1,364,605; Jan. 4; v. 282; p. 107.
- Pavements, Device for finishing concrete. W. L. Ashmore and H. R. Powell. No. 1,364,606; Jan. 4; v. 282; p. 107.
- Pavements, Joint for concrete. W. L. Ashmore. No. 1,380,341; June 7; v. 287; p. 4.
- Pavements, Making. W. E. Ficklen. No. 1,383,459; July 5; v. 288; p. 42.
- Paving apparatus. R. D. Baker. No. 1,388,690; Aug. 23; v. 289; p. 721.
- Paving apparatus. R. D. Baker. No. 1,390,479; Sept. 13; v. 290; p. 276.
- Paving apparatus. R. C. Stubbs. No. 1,383,581; July 5; v. 288; p. 67.
- Paving-block. H. Blehan and W. S. Albrink. No. 1,364,236; Jan. 4; v. 282; p. 37.
- Paving-block. E. E. Brainerd. No. 1,379,440; May 24; v. 286; p. 765.
- Paving-block construction. G. W. Warmouth. No. 1,369,067; Feb. 22; v. 283; p. 571.
- Paving composition. J. R. Draney and L. M. Law. No. 1,364,622; Jan. 4; v. 282; p. 111.
- Paving composition and making same. C. A. C. de Caudeberg. No. 1,395,396; Nov. 1.
- Paving composition, Non-slipping. P. F. Solan and H. S. Balliet. (Reissue.) No. 15,097; Apr. 26; v. 285; p. 715.
- Paving material and making same. M. B. Kendrick. No. 1,371,032; Mar. 8; v. 284; p. 288.
- Paving material from tarry matter, Making. C. Honda. No. 1,386,932; Aug. 9; v. 289; p. 265.
- Paving materials, Apparatus for producing. M. A. Popkess. No. 1,373,205; Mar. 29; v. 284; p. 871.
- Paving materials, Machine for preparing. A. P. Daniel. No. 1,369,730; Feb. 22; v. 283; p. 700.
- Paving mixture and making the same. J. R. Draney. No. 1,364,621; Jan. 4; v. 282; p. 111.
- Paving, Wood-block. G. W. Warmoth. (Reissue.) No. 15,240; Nov. 29.
- Pawl-and-ratchet mechanism. O. Woodward. No. 1,371,590; Mar. 15; v. 284; p. 460.
- Pawl, Recoil-. K. S. Carlstrom. No. 1,376,078; Apr. 26; v. 285; p. 655.
- Pea-picker. T. S. Mouchet. No. 1,384,626; July 12; v. 288; p. 334.
- Pea-thresher. T. T. Kennerly. No. 1,373,334; Mar. 29; v. 284; p. 897.
- Peanut-blancher. G. C. Kelling. No. 1,388,574; Aug. 23; v. 289; p. 698.
- Peanut-blanching machine. R. P. Witt. No. 1,388,394; Aug. 23; v. 289; p. 664.
- Peanut-butter. W. W. Willison. No. 1,398,352; Nov. 29.
- Peanut cleaner and grader, Portable. J. W. and T. J. Whitmore. No. 1,380,449; June 7; v. 287; p. 24.
- Peanut-digger. M. J. Smith and B. F. Browder. No. 1,389,015; Aug. 30; v. 289; p. 841.
- Peanut-digger. S. P. Stevens. No. 1,383,580; July 5; v. 288; p. 67.
- Peanut-harvester. G. L. Newton. No. 1,389,526; Aug. 30; v. 289; p. 942.
- Peanuts, Method and apparatus for blanching. G. J. Corporon. No. 1,381,082; June 7; v. 287; p. 146.
- Peanuts out of the ground, Machine for digging. M. M. Nixon. No. 1,401,486; Dec. 27.
- Peat and similar substances, Treating. F. T. Dow. No. 1,393,435; Oct. 11.
- Peat-bogs to extract the water from the peat in the bogs, Treating. W. W. Camp. No. 1,399,847; Dec. 13.
- Peat, Method and means for removing water from. A. Ten Bosch. No. 1,369,611; Feb. 22; v. 283; p. 676.
- Peat-spatulating machine. F. Farrow. No. 1,378,775; May 17; v. 286; p. 567.
- Peat, System of handling. E. V. Moore. No. 1,373,627; Apr. 5; v. 285; p. 48.
- Pecan-nut cracker. St. G. Craig. No. 1,371,072; Mar. 8; v. 284; p. 296.
- Pectin, Extracting. T. W. Doell and L. A. F. Maes. No. 1,385,525; July 26; v. 288; p. 675.
- Pectin, Producing. R. H. McKee. No. 1,380,572; June 7; v. 287; p. 47.
- Pectous material and making same. F. G. Beylik. No. 1,393,660; Oct. 11.
- Pectous substances, Production of. B. T. P. Barker. No. 1,386,224; Aug. 2; v. 289; p. 53.
- Pedal. F. P. Weston and J. H. Graham. No. 1,377,376; May 10; v. 286; p. 247.
- Pedal, Accelerator-. W. C. Gewalt. No. 1,399,054; Dec. 6.
- Pedal and control-lever lock. C. L. McDuff. No. 1,380,817; June 7; v. 287; p. 95.
- Pedal-cap. E. S. De Tamble. No. 1,388,935; Aug. 30; v. 289; p. 824.
- Pedal, Cut-out. T. Sampson. No. 1,370,489; Mar. 1; v. 284; p. 139.
- Pedal device. B. H. Jefferson. No. 1,374,892; Apr. 12; v. 285; p. 334.
- Pedal device. B. H. Jefferson. No. 1,379,570; May 24; v. 286; p. 790.
- Pedal, Double drum-. G. M. Fitzgerald and H. C. Lockey. No. 1,369,233; Feb. 22; v. 283; p. 603.
- Pedal extension, Adjustable. G. H. Rives. No. 1,386,951; Aug. 9; v. 289; p. 268.
- Pedal-lock. C. J. Bender. No. 1,398,122; Nov. 22.
- Pedal-lock. J. C. McManus. No. 1,395,966; Nov. 1.
- Pedal-lock. J. F. Weidner. No. 1,371,958; Mar. 15; v. 284; p. 530.
- Pedal-pin. J. Ingels. No. 1,375,003; Apr. 19; v. 285; p. 417.
- Pedals, Safety neutral stop for Ford clutch-. G. G. Porter. No. 1,401,359; Dec. 27.
- Pedestal and means for manufacturing the same, Table-. A. P. Schloerb. No. 1,371,326; Mar. 15; v. 284; p. 407.
- Pedestal, Bench-. J. H. Lindsey, Sr. No. 1,401,162; Dec. 27.
- Pedestal-tie. A. C. Negus. No. 1,388,367; Aug. 23; v. 289; p. 658.
- Pedimeter. C. Oliver. No. 1,375,969; Apr. 26; v. 285; p. 634.
- Peel-plate for baking. C. W. Lamprecht. No. 1,373,663; Apr. 5; v. 285; p. 55.
- Peeling fruits and vegetables. W. D. Bost and H. M. Miller. No. 1,394,138; Oct. 18.
- Peeling-machine. F. M. Schaefer. No. 1,378,058; May 17; v. 286; p. 430.
- Peeling machines, Coring means for tomato-. C. Kirino. No. 1,366,188; Jan. 18; v. 282; p. 493.
- Peeling machines, Disk for-. C. F. Smith. No. 1,384,356; July 12; v. 288; p. 277.
- Pellets into containers, Machine for feeding. J. E. Groves. No. 1,383,623; July 5; v. 288; p. 76.
- Pelorus. F. C. Melchsner. No. 1,367,918; Feb. 8; v. 283; p. 261.
- Pelorus. W. O. White. No. 1,399,330; Dec. 6.
- Pen and brush, Combination. W. R. Penschuck. No. 1,393,960; Oct. 18.
- Pen and cigar-lighter, Combined. F. Rauch. No. 1,379,218; May 24; v. 286; p. 723.
- Pen and pencil clip. V. Guariglia. No. 1,370,206; Mar. 1; v. 284; p. 85.



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- Pen attachment, Fountain-. J. L. De Maria. No. 1,372,011; Mar. 22; v. 284; p. 597.
- Pen attachment, Lettering-. E. G. Henry. No. 1,390,290; Sept. 13; v. 290; p. 239.
- Pen blotting attachment, Fountain-. B. W. Odom. No. 1,387,298; Aug. 9; v. 289; p. 335.
- Pen, Drawing-. C. E. Burnap. No. 1,384,232; July 12; v. 288; p. 251.
- Pen-extractor. E. E. Black. No. 1,383,377; July 5; v. 288; p. 25.
- Pen, Fountain-. H. S. Hasselquist. No. 1,367,255; Feb. 1; 283; p. 74.
- Pen, Fountain-. F. H. Lennards. No. 1,381,571; June 14; v. 287; p. 289.
- Pen, Fountain-. C. A. Luck. No. 1,380,109; May 31; v. 286; p. 966.
- Pen, Fountain-. R. J. Mackenzie. No. 1,390,366; Sept. 13; v. 290; p. 253.
- Pen, Fountain-. K. Matsumoto and K. Takagi. No. 1,380,231; May 31; v. 286; p. 988.
- Pen, Fountain-. N. H. A. Nelson. No. 1,391,267; Sept. 20; v. 290; p. 499.
- Pen, Fountain-. A. L. Ogden. No. 1,367,624; Feb. 8; v. 283; p. 204.
- Pen, Fountain-. N. B. Panoff. No. 1,400,311; Dec. 13.
- Pen, Fountain-. H. L. Perez and T. Veitch. No. 1,393,903; Oct. 18.
- Pen, Fountain-. R. E. Perkins. No. 1,365,191; Jan. 11; v. 282; p. 264.
- Pen, Fountain-. R. E. Perkins. Nos. 1,369,184-5; Feb. 22; v. 283; p. 593.
- Pen, Fountain-. F. Regero. No. 1,398,800; Nov. 29.
- Pen, Fountain-. T. C. Spelling. No. 1,379,057; May 24; v. 286; p. 693.
- Pen, Fountain-. J. Strake. No. 1,392,089; Sept. 27; v. 290; p. 738.
- Pen, Fountain-. M. C. Taylor. No. 1,391,430; Sept. 20; v. 290; p. 532.
- Pen, Fountain-. H. J. Upton. No. 1,365,131; Jan. 11; v. 282; p. 253.
- Pen, Fountain-. H. J. Upton. No. 1,395,878; Nov. 1.
- Pen, Fountain-. P. E. Wirt. No. 1,379,890; May 31; v. 286; p. 924.
- Pen, Fountain or reservoir. A. E. Wade. No. 1,386,817; Aug. 9; v. 289; p. 241.
- Pen, Fountain and other reservoir. D. Cameron. No. 1,375,559; Apr. 19; v. 285; p. 523.
- Pen, Fountain drawing-. H. Burkhardt. No. 1,374,426; Apr. 12; v. 285; p. 244.
- Pen, Fountain lettering-. W. F. Barch. No. 1,367,346; Feb. 1; v. 283; p. 92.
- Pen, Ink-content-indicating fountain-. R. de Echevarria. No. 1,372,608; Mar. 22; v. 284; p. 711.
- Pen-nib extractor. E. V. Butt. No. 1,396,354; Nov. 8.
- Pen or pencil attachment. F. De Luca. No. 1,373,310; Mar. 29; v. 284; p. 892.
- Pen or pencil clip. B. Moore. No. 1,397,818; Nov. 22.
- Pen or pencil holder. J. Amato. No. 1,392,388; Oct. 4.
- Pen or pencil holding device. T. J. Dixon. No. 1,382,487; June 21; v. 287; p. 522.
- Pen or reservoir-pen, Double-flow fountain-. Y. Mukojima. No. 1,383,416; July 5; v. 288; p. 33.
- Pen retainer and releaser for penholders. H. E. Halseth. No. 1,381,549; June 14; v. 287; p. 285.
- Pen, Self-filling fountain-. E. Hugetz. No. 1,392,569; Oct. 4.
- Pen, self-filling fountain-. H. Lewinson. No. 1,392,837; Oct. 4.
- Pen, self-filling fountain-. H. Lewinson. No. 1,392,838; Oct. 4.
- Pen, Self-filling fountain-. P. H. Qualmann. No. 1,381,332; June 14; v. 287; p. 244.
- Pen, Show-carding. H. R. Fuller. No. 1,381,296; June 14; v. 287; p. 237.
- Pen, Stylographic. J. Abegg. No. 1,379,602; May 31; v. 286; p. 871.
- Pen, Stylographic. J. Abegg. No. 1,379,603; May 31; v. 286; p. 871.
- Pen, Toggle-joint self-filling. J. C. Wahl. No. 1,365,754; Jan. 18; v. 282; p. 413.
- Pens, Adjustable support for. S. Schrago. No. 1,387,808; Aug. 16; v. 289; p. 491.
- Pens and pencils, Clip for. G. R. Wells. No. 1,387,220; Aug. 9; v. 289; p. 320.
- Pens, Calendar attachment for fountain-. C. F. Ashby. No. 1,365,366; Jan. 11; v. 282; p. 298.
- Pens, Filling-bottle for fountain-. W. G. H. Dziambor. No. 1,381,546; June 14; v. 287; p. 284.
- Pens, Filling device for fountain-. E. Perina. No. 1,392,860; Oct. 4.
- Pens, Making. L. A. Hawkes. No. 1,365,318; Jan. 11; v. 282; p. 289.
- Pens, pencils, and similar instruments, Clip for. S. M. Nathan. No. 1,374,515; Apr. 12; v. 285; p. 261.
- Pens, Pocket-holder for fountain-. R. R. Bodé. No. 1,366,329; Jan. 18; v. 282; p. 526.
- Penholder. O. L. Bennett. No. 1,398,535; Nov. 29.
- Penholder. J. J. Boyle. No. 1,371,292; Mar. 15; v. 284; p. 400.
- Penholder. H. Kerlin and J. R. Malaney. No. 1,395,428; Nov. 1.
- Penholder. A. J. H. Launay. No. 1,367,880; Feb. 8; v. 283; p. 254.
- Penholder. W. Van Korlaar. No. 1,377,947; May 10; v. 286; p. 357.
- Penholder. B. W. Zimmerle. No. 1,374,870; Apr. 12; v. 285; p. 320.
- Penholder support. J. J. Desmond. No. 1,388,175; Aug. 23; v. 289; p. 618.
- Pencil. A. E. Allsworth. No. 1,382,047; June 21; v. 289; p. 438.
- Pencil. E. L. and L. A. Anderson. No. 1,398,955; Dec. 6.
- Pencil. H. L. Fischer. No. 1,370,420; Mar. 1; v. 284; p. 126.
- Pencil. H. L. Fischer. No. 1,381,981; June 21; v. 287; p. 426.
- Pencil. H. L. Fischer. No. 1,389,426; Aug. 30; v. 289; p. 922.
- Pencil. H. L. Fischer and F. J. Kristofek. No. 1,375,579; Apr. 19; v. 285; p. 527.
- Pencil. C. N. Johnson. No. 1,368,262; Feb. 15; v. 283; p. 375.
- Pencil. F. Kaiser. No. 1,378,174; May 17; v. 286; p. 452.
- Pencil. C. R. Keeran. No. 1,372,296; Mar. 22; v. 284; p. 552.
- Pencil. C. R. Keeran. No. 1,372,354; Mar. 22; v. 284; p. 562.
- Pencil. C. R. Keeran and M. M. Kaufmann. No. 1,400,362; Dec. 13.
- Pencil. W. Meyner. No. 1,384,706; July 12; v. 288; p. 351.
- Pencil. P. W. Olson. No. 1,385,187; July 19; v. 288; p. 530.
- Pencil. J. Swanberg. No. 1,381,517; June 14; v. 287; p. 278.
- Pencil. F. J. Vierling and A. Kvorning. No. 1,373,278; Mar. 29; v. 284; p. 885.
- Pencil. C. E. Wehn. No. 1,388,536; Aug. 23; v. 289; p. 691.
- Pencil and pen holder. A. Fleming. No. 1,382,071; June 21; v. 287; p. 443.
- Pencil attachment. J. L. Broschart. No. 1,395,793; Nov. 1.
- Pencil attachment. B. Lane. No. 1,391,127; Sept. 20; v. 290; p. 470.
- Pencil attachment. E. W. Owen. No. 1,386,526; Aug. 2; v. 289; p. 110.
- Pencil attachment. H. E. Watkins. No. 1,392,468; Oct. 4.
- Pencil-clip. G. S. Adolfson. No. 1,365,439 Jan. 11; v. 282; p. 311.
- Pencil-clip. G. S. Adolfson. No. 1,401,124; Dec. 27.
- Pencil, Finger-. H. Manuel. No. 1,391,556; Sept. 20; v. 290; p. 557.
- Pencil-holder. A. Finkelstein. No. 1,374,841; Apr. 12; v. 285; p. 324.
- Pencil-holder. A. Vallenggia. No. 1,375,029; Apr. 19; v. 285; p. 423.
- Pencil-holder. F. J. Vierling, F. R. Bartholomew, and M. H. Smith. No. 1,370,172; Mar. 1; v. 284; p. 79.
- Pencil-holder, Pocket. E. J. Morin. No. 1,401,809; Dec. 27.
- Pencil, Illuminated. F. Stridinger and R. Miller. No. 1,381,763; June 14; v. 287; p. 325.
- Pencil, Lead-. W. W. Moore. No. 1,369,347; Feb. 22; v. 283; p. 625.
- Pencil, Lead-. W. W. Moore. No. 1,382,928; June 28; v. 287; p. 659.
- Pencil, Lead-. A. Pollak. No. 1,391,273; Sept. 20; v. 290; p. 500.
- Pencil, Lead-. E. S. Shimer. No. 1,396,535; Nov. 8.
- Pencil, Lead-feeding. L. L. Blake. No. 1,388,693; Aug. 23; v. 289; p. 721.
- Pencil or pen attachment. A. E. Andersen. No. 1,401,454; Dec. 27.
- Pencil, pen, and pad holder, Pocket. F. N. Gilbert. No. 1,386,700; Aug. 9; v. 289; p. 217.
- Pencil, pen, &c., holder. G. A. Carlson. No. 1,365,374; Jan. 11; v. 282; p. 300.
- Pencil-pointer. O. R. Clough. No. 1,376,254; Apr. 26; v. 285; p. 688.
- Pencil, Propel-. W. M. Saunders. No. 1,380,743; June 7; v. 287; p. 80.
- Pencil, Retoucher's rotary. E. A. Glassburn. No. 1,368,135; Feb. 8; v. 283; p. 302.
- Pencil-tip and penholder. H. Gonzalez. No. 1,383,298; July 5; v. 288; p. 8.
- Pencils, Attachment for. A. A. Beck. No. 1,371,771; Mar. 15; v. 284; p. 494.
- Pencils, Attachment for. A. A. Beck. No. 1,396,395; Nov. 8.
- Pencils, Attachment to screw-feed. A. Fleming. No. 1,396,710; Nov. 8.
- Pencils, Dustbrush for. E. C. Kubik. No. 1,386,635; Aug. 9; v. 289; p. 204.
- Pencils or pens, Attachment for. A. F. Record. No. 1,376,115; Apr. 26; v. 285; p. 653.
- Pendant and bodkin. G. M. Wilson. No. 1,371,013; Mar. 8; v. 284; p. 284.
- Pendant, Luminous. M. C. Frank. No. 1,365,976; Jan. 18; v. 282; p. 457.
- Pendant, Luminous. D. Hole. No. 1,395,110; Oct. 25.
- Pendulum. A. L. Sohm. No. 1,394,690; Oct. 25.



- Pendulum, Automatically-regulated. W. H. Parnell, Jr. No. 1,378,824; May 17; v. 286; p. 576.
- Penknife. T. C. Gibson. No. 1,394,166; Oct. 18.
- Pentachloracetone, Production of. H. E. Buc. No. 1,391,757; Sept. 27; v. 290; p. 670.
- Perambulator. A. J. Adams. No. 1,379,295; May 24; v. 286; p. 738.
- Perborates, Manufacture of. J. K. Langhard. No. 1,375,596; Apr. 19; v. 285; p. 531.
- Perborates, Manufacture of. O. Liebknecht. No. 1,395,684; Nov. 1.
- Perborates, Manufacture of alkali. O. Liebknecht. No. 1,395,685; Nov. 1.
- Percolator. T. Abtmeyer. No. 1,379,671; May 31; v. 286; p. 883.
- Percolator. E. Towe. No. 1,374,166; Apr. 5; v. 285; p. 152.
- Percolator, Coffee-. H. Cowan. No. 1,387,128; Aug. 9; v. 289; p. 303.
- Percolator-stand. L. R. Hodge. No. 1,389,508; Aug. 30; v. 289; p. 938.
- Percolators, Adjustable handle for. R. D. Wickersham. No. 1,389,336; Aug. 30; v. 289; p. 904.
- Percolators, &c., handle. A. C. Schmidt. No. 1,371,001; Mar. 8; v. 284; p. 282.
- Percussion-cap detonator. C. F. Paulus. No. 1,378,272; May 17; v. 286; p. 471.
- Percussion-tool. W. H. Keller and A. Schinkez. No. 1,387,493; Aug. 16; v. 289; p. 427.
- Percussion-tools, Spring particularly for use in. M. L. Bramson. No. 1,400,019; Dec. 13.
- Percussive apparatus. J. W. Van Meter. No. 1,368,079; Feb. 8; v. 283; p. 291.
- Percussive implement. O. Sperling. No. 1,370,769; Mar. 8; v. 284; p. 238.
- Percussive tool. H. V. Haight. No. 1,391,628; Sept. 20; v. 290; p. 571.
- Percussive tools, Blowing device for. W. A. Smith. No. 1,384,641; July 12; v. 288; p. 337.
- Percussive tools, Independent rotation for. F. M. Slater. No. 1,370,923; Mar. 8; v. 284; p. 267.
- Percussive tools, Rotating construction for. L. C. Bayles. No. 1,375,443; Apr. 19; v. 285; p. 502.
- Percussive tools, Rotating device for. L. C. Bayles. No. 1,375,444; Apr. 19; v. 285; p. 502.
- Percussive tools, Rotation means for. H. A. Guiley. No. 1,384,661; July 12; v. 288; p. 341.
- Perforating. A. E. Hudson. No. 1,389,645; Sept. 6; v. 290; p. 17.
- Perforating and printing tabulator mechanism, Combined. J. Powers. No. 1,388,299; Aug. 23; v. 289; p. 644.
- Perforating apparatus. H. A. Silverman. No. 1,401,822; Dec. 27.
- Perforating-iron. H. A. Silverman. No. 1,401,821; Dec. 27.
- Perforating-machine. G. W. Bingham. No. 1,389,618; Sept. 6; v. 290; p. 11.
- Perforating-machine. A. L. Dautrey. No. 1,375,680; Apr. 26; v. 285; p. 580.
- Perforating-machine. A. L. Day. No. 1,391,099; Sept. 20; v. 290; p. 464.
- Perforating-machine. W. H. Lyman. No. 1,394,566; Oct. 25.
- Perforating-machine. D. Noble. No. 1,376,897; May 3; v. 286; p. 99.
- Perforating-machine. D. Noble. No. 1,382,378; June 21; v. 287; p. 500.
- Perforating-machine. J. T. Quigley. No. 1,373,760; Apr. 5; v. 285; p. 73.
- Perforating machine, Music-roll-. H. J. Smith. No. 1,401,201; Dec. 27.
- Perforator. E. H. Pierson. No. 1,393,243; Oct. 11.
- Periodical subscriptions, Blank for. H. L. Wells. No. 1,393,865; Oct. 18.
- Permanganates, Making. J. R. MacMillan and J. L. K. Snyder. No. 1,387,656; Aug. 16; v. 289; p. 460.
- Permanganates, Manufacture of. H. C. Jenkins and H. Woolner. No. 1,377,485; May 10; v. 286; p. 268.
- Permutation-lock. R. Baer. No. 1,391,357; Sept. 20; v. 290; p. 516.
- Permutation-lock. R. Baer. No. 1,391,359; Sept. 20; v. 290; p. 517.
- Permutation-lock. F. de Curtis. No. 1,369,521; Feb. 22; v. 283; p. 658.
- Permutation-lock. E. M. O. Descalles. No. 1,393,269; Oct. 11.
- Permutation-lock. S. S. Swan. No. 1,384,577; July 12; v. 288; p. 323.
- Permutation locking-ring. G. B. Bergen. No. 1,388,691; Aug. 23; v. 289; p. 721.
- Peroxid, Making hydrogen. R. Jacquelet. No. 1,364,558; Jan. 4; v. 282; p. 99.
- Peroxid of nitrogen, Manufacture of. L. Duparc and C. Urfer. No. 1,366,773; Jan. 25; v. 282; p. 658.
- Perspiration, Composition for stopping. L. H. Tate. No. 1,371,822; Mar. 15; v. 284; p. 504.
- Perylen, Manufacturing. F. Hansgrg. No. 1,384,615; July 12; v. 288; p. 331.
- Pessary. G. J. Wallace. No. 1,382,033; June 21; v. 287; p. 436.
- Petcock. E. J. Fraser. No. 1,373,321; Mar. 29; v. 284; p. 892.
- Petcock and making same. C. S. Kellum. No. 1,367,605; Feb. 8; v. 283; p. 201.
- Petcock-operating device. M. Drane and H. W. Stone. No. 1,367,867; Feb. 8; v. 283; p. 252.
- Petrol, Production of. F. Tinker. No. 1,393,184; Oct. 11.
- Petrol-tank. A. Macbeth. No. 1,397,383; Nov. 15.
- Petroleum and analogous oils, Distilling and cracking. A. J. Paris, Jr. No. 1,367,828; Feb. 8; v. 283; p. 244.
- Petroleum, Apparatus for treatment of. J. W. Lewis. No. 1,364,443; Jan. 4; v. 282; p. 77.
- Petroleum, Distilling. E. F. Burch. No. 1,396,249; Nov. 8.
- Petroleum, Distilling. E. O. Hicks. No. 1,378,229; May 17; v. 286; p. 462.
- Petroleum for purification, Treatment of crude. J. W. Bostick and C. H. Homer. No. 1,380,863; June 7; v. 287; p. 103.
- Petroleum hydrocarbons, Distillation of. E. M. Clark. No. 1,388,514; Aug. 23; v. 289; p. 687.
- Petroleum, Method of and apparatus for treating. D. W. Hoge. No. 1,382,727; June 28; v. 287; p. 621.
- Petroleum-pitch, Utilization of. K. Nomi. No. 1,386,945; Aug. 9; v. 289; p. 267.
- Petroleum products, Apparatus for cracking and refining. W. H. Young. No. 1,378,307; May 17; v. 286; p. 477.
- Petroleum products, Distilling. C. Kroll. No. 1,373,251; Mar. 29; v. 284; p. 880.
- Petroleum-refining, Reclaiming sludge-acid in. W. H. Simonson and O. Mantius. No. 1,384,978; July 19; v. 288; p. 487.
- Pharmaceutical products, Package for containers of. S. P. and J. B. P. Maruny. No. 1,381,487; June 14; v. 287; p. 272.
- Phase-balancer. C. Le G. Fortescue. No. 1,376,420; May 3; v. 286; p. 8.
- Phase-balancing system. C. L. Fortescue. No. 1,378,019; May 17; v. 286; p. 422.
- Phase-converter balancing system. R. E. Hellmund. No. 1,365,691; Jan. 18; v. 282; p. 400.
- Phase-converting system. R. E. Hellmund. No. 1,381,303; June 14; v. 287; p. 238.
- Phase-distributing system. C. Le G. Fortescue. No. 1,376,423; May 3; v. 286; p. 9.
- Phenol and formaldehyde, Making light-colored air and light proof condensation products from. F. Pollak. No. 1,369,352; Feb. 22; v. 283; p. 625.
- Phenol-formaldehyde condensation product and the production thereof. A. W. Weller and W. T. Robinson-Bindley. No. 1,368,867; Feb. 15; v. 283; p. 493.
- Phenols and formaldehyde and making same, Composite article including. W. D. Stevenson. No. 1,392,535; Oct. 4.
- Phenols from redwood, Production of. W. J. Hand. No. 1,365,407; Jan. 11; v. 282; p. 306.
- Phenols, Producing. G. B. Bradshaw. No. 1,398,998; Dec. 6.
- Phenolic condensation product, Producing a. L. V. Redman, A. J. Weith, and F. P. Brock. No. 1,374,526; Apr. 12; v. 285; p. 264.
- Phenolic condensation products, Producing. L. V. Redman, A. J. Weith, and F. P. Brock. No. 1,368,753; Feb. 15; v. 283; p. 471.
- Phonograph. J. N. Anderson. No. 1,309,089; Aug. 30; v. 289; p. 855.
- Phonograph. E. J. R. Atkinson. No. 1,399,917; Dec. 13.
- Phonograph. E. H. Bickley. No. 1,364,689; Jan. 4; v. 282; p. 124.
- Phonograph. J. A. Davidowski. No. 1,372,167; Mar. 22; v. 284; p. 626.
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- Phonograph. C. Hansen. No. 1,379,338; May 24; v. 286; p. 747.
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- Phonograph. R. J. Kittredge. No. 1,368,264; Feb. 15; v. 283; p. 375.
- Phonograph. J. T. Leitch. No. 1,389,058; Aug. 30; v. 289; p. 849.
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- Phonograph. G. M. Rentz. No. 1,375,730; Apr. 26; v. 285; p. 589.
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- Phonograph and picture-projector, Combined. A. Rasmusen, Jr. No. 1,390,640; Sept. 13; v. 290; p. 310.
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- Phonograph-brake. W. C. Teunisz. No. 1,396,471; Nov. 8.
- Phonograph-cabinet. J. Bachar. No. 1,394,960; Oct. 25.
- Phonograph-cabinet. J. C. Houley and C. E. Shaw. No. 1,378,117; May 17; v. 286; p. 441.
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- Phonograph-cabinet and table, Combined. A. Will. No. 1,399,097; Dec. 6.
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- Phonograph construction and illumination. W. H. Friedline. No. 1,369,735; Feb. 22; v. 283; p. 701.
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- Phonograph lighting system. R. M. G. Phillips. No. 1,400,694; Dec. 20.
- Phonograph mechanism, Repeating. J. M. Noel. No. 1,375,927; Apr. 26; v. 285; p. 626.
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- Phonograph-needle. M. T. Straight. No. 1,398,529; Nov. 29.
- Phonograph-needle sharpener. A. W. Wahlin. No. 1,401,929; Dec. 27.
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- Phonograph-needles, Sharpener for. G. W. Mayer. No. 1,378,597; May 17; v. 286; p. 533.
- Phonograph-operating mechanism. A. H. Franke. No. 1,386,099; Aug. 2; v. 289; p. 28.
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- Phonograph-record cabinet. E. R. Meyer. No. 1,366,203; Jan. 18; v. 282; p. 500.
- Phonograph-record cabinet. C. A. Vastola. No. 1,397,940; Nov. 22.
- Phonograph-record cabinet. W. M. Wagoner and J. W. Varner. No. 1,381,525; June 14; v. 287; p. 280.
- Phonograph-record cabinet. G. W. Williams. No. 1,389,610; Sept. 6; v. 290; p. 10.
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- Phonograph-record-handling device. E. O. Clark. No. 1,365,227; Jan. 11; v. 282; p. 272.
- Phonograph-record holder. E. C. Goedde. No. 1,393,771; Oct. 18.
- Phonograph-record holder. A. Kesslering. No. 1,395,188; Oct. 25.
- Phonograph-record holder. N. Kolby. No. 1,371,629; Mar. 15; v. 284; p. 467.
- Phonograph-record-receiving envelop and making same. M. G. Markgraf. No. 1,379,198; May 24; v. 286; p. 720.
- Phonograph-records, Cleaning. E. T. Hails. No. 1,378,344; May 17; v. 286; p. 484.
- Phonograph-records, &c., Dies for molding. T. Stevenson. No. 1,399,817; Dec. 13.
- Phonograph-records, Tray for. J. A. McVickar. No. 1,387,730; Aug. 16; v. 289; p. 475.
- Phonograph repeat mechanism. W. B. Benham. No. 1,384,034; July 5; v. 288; p. 161.
- Phonograph-reproducer. C. M. Crossno. No. 1,379,535; May 24; v. 286; p. 784.
- Phonograph-reproducer. G. Strobino. No. 1,374,479; Apr. 12; v. 285; p. 254.
- Phonograph-reproducer. D. H. Wilson. No. 1,390,962; Sept. 13; v. 290; p. 374.
- Phonograph-reproducer. D. H. Wilson. No. 1,390,963; Sept. 13; v. 290; p. 374.
- Phonograph-reproducer. O. R. Marsh. No. 1,392,430; Oct. 4.
- Phonograph-reproducers, Stylus-holder for. M. Elmer. No. 1,397,835; Nov. 22.
- Phonograph, Safety device for. C. H. Kolling. No. 1,400,079; Dec. 13.
- Phonograph sound-box. A. A. Dennis. No. 1,393,434; Oct. 11.
- Phonograph sound-board. W. A. Scott. No. 1,369,845; Mar. 1; v. 284; p. 17.
- Phonograph sound-regulator. H. C. Stageman. No. 1,389,605; Sept. 6; v. 290; p. 9.
- Phonograph-still, Chuck for. M. M. Gruber. No. 1,400,158; Dec. 13.
- Phonograph-stop. J. W. Lucier. No. 1,389,368; Aug. 30; v. 289; p. 911.
- Phonograph-stop. E. J. Tomlinson. No. 1,399,327; Dec. 6.
- Phonograph-stop, Automatic. C. H. Taylor. No. 1,400,638; Dec. 20.
- Phonograph-table. H. Dragner and L. J. Harris. No. 1,388,243; Aug. 23; v. 289; p. 632.
- Phonograph, Time-controlled. J. Kanakaris. No. 1,381,644; June 14; v. 287; p. 302.
- Phonograph-transmitter. G. K. Mills. No. 1,382,212; June 21; v. 287; p. 468.
- Phonographs, Amplifier for. B. Bolton. No. 1,372,269; Mar. 22; v. 285; p. 647.
- Phonographs, Amplifier for. E. Phipps. No. 1,381,430; June 14; v. 287; p. 262.
- Phonographs and means for regulating the same, Stylus or needle for. R. A. Frisbie and G. Baty. No. 1,367,956; Feb. 8; v. 283; p. 268.
- Phonographs, Automatic gravity-stop for. W. R. Whetsel. No. 1,381,685; June 14; v. 287; p. 310.
- Phonographs, Automatic repeating mechanism for. L. R. McDonald. Nos. 1,393,229-30; Oct. 11.
- Phonographs, Automatic starting and stopping mechanism for. J. C. Torchia. No. 1,389,169; Aug. 30; v. 289; p. 871.
- Phonographs, Automatic stop for. W. J. Baker. No. 1,382,405; June 21; v. 287; p. 506.
- Phonographs, Automatic stop for. A. F. Bruhy. No. 1,399,186; Dec. 6.
- Phonographs, Automatic stop for. F. D. Lewis. No. 1,394,377; Oct. 25.
- Phonographs, Automatic stop for. G. W. Lorimer. No. 1,396,964; Nov. 15.
- Phonographs, Automatic stop for. R. J. Prettie. No. 1,382,544; June 21; v. 287; p. 532.
- Phonographs, Automatic stop for. J. Z. Tow. No. 1,401,658; Dec. 27.
- Phonographs, Automatic stop mechanism for. F. D. Lewis. No. 1,394,776; Oct. 25.
- Phonographs, Automatic stopping and starting device for. J. A. Eitutus. No. 1,390,682; Sept. 13; v. 290; p. 318.
- Phonographs, Balance-weight-cover support for. A. and M. Bersted. No. 1,392,290; Oct. 4.
- Phonographs, Controlling device for. E. O. Breuning. No. 1,373,994; Apr. 5; v. 285; p. 121.
- Phonographs, Electric reproducer for. H. Armagnat and P. Frely. No. 1,384,295; July 12; v. 288; p. 264.
- Phonographs, Electric switch for. J. J. Scully. No. 1,401,652; Dec. 27.
- Phonographs, Knock-down cabinet for. C. R. Soule. No. 1,400,632; Dec. 20.
- Phonographs, Operating mechanism for. W. W. Kidney. No. 1,374,151; Apr. 5; v. 285; p. 149.
- Phonographs, Repeating attachment for. S. S. Benster. No. 1,368,384; Feb. 15; v. 283; p. 399.
- Phonographs, Repeating attachment for. C. J. Cooke. No. 1,373,382; Mar. 29; v. 284; p. 906.
- Phonographs, Recording and reproducing attachment for. W. H. Gilman. No. 1,389,429; Aug. 30; v. 289; p. 923.
- Phonographs, Recording and reproducing mechanism for. W. H. Gilman. No. 1,389,430; Aug. 30; v. 289; p. 923.
- Phonographs, Reproducer for. B. B. Blood. No. 1,365,298; Jan. 11; v. 282; p. 286.
- Phonographs, Reproducer for. J. A. Brown. No. 1,392,677; Oct. 4.
- Phonographs, Reproducer for. C. G. Hensley. No. 1,379,407; May 24; v. 286; p. 760.
- Phonographs, Resilient clutch for. G. W. Beadle. No. 1,382,406; June 21; v. 287; p. 506.
- Phonographs, Rewind device for. J. H. Dickinson and L. G. Collier. No. 1,395,802; Nov. 1.
- Phonographs, Sound-reproducer for. J. W. Forderer. No. 1,393,106; Oct. 11.
- Phonographs, &c., Speed-equalizing device for. C. H. Green. No. 1,387,704; Aug. 16; v. 289; p. 469.
- Phonographs, Stop for. R. Bartolomé. No. 1,370,266; Mar. 1; v. 284; p. 97.
- Phonographs, Stop mechanism for. S. Shelly. No. 1,395,017; Oct. 25.
- Phonographs, Stylus-bar attachment for. A. F. Gillet. No. 1,375,750; Apr. 26; v. 285; p. 592.
- Phonographs, Tone-arm for. A. F. Bruhy. No. 1,364,180; Jan. 4; v. 282; p. 26.
- Phonographs, Tone-arm for. W. Frick. No. 1,384,015; July 5; v. 288; p. 157.



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- Phonographs, Tone-foot for. W. H. Prickett. No. 1,374,029; Apr. 5; v. 285; p. 126.
- Phonographs, Tone-modifier for. W. Scott. No. 1,394,646; Oct. 25.
- Photographic apparatus and combined phonographic and moving-picture apparatus. W. M. Clark. No. 1,388,516; Aug. 23; v. 289; p. 687.
- Photographic-film-printing apparatus. E. W. Nelson. No. 1,399,396; Dec. 6.
- Photographic mask. C. H. Cady. No. 1,399,189; Dec. 6.
- Photographic record and table. B. J. Kiffe. No. 1,391,637; Sept. 20; v. 290; p. 573.
- Photographic-record cleaning device. L. A. Wellington. No. 1,396,544; Nov. 8.
- Photographic reproducer. A. Hoover. No. 1,390,558; Sept. 13; v. 290; p. 292.
- Photographic reproducer. L. C. Pettitt. No. 1,380,498; June 7; v. 287; p. 33.
- Photographic reproducer. H. H. Stromberg. No. 1,378,144; May 17; v. 286; p. 447.
- Photographic tablet. V. H. Emerson. No. 1,399,757; Dec. 13.
- Phosphate rock, Treating. W. Glaeser. No. 1,387,151; Aug. 9; v. 289; p. 308.
- Phosphates, Treatment of. E. C. Soper. No. 1,396,149; Nov. 8.
- Phosphates, Treatment of. E. C. Soper. No. 1,396,975; Nov. 15.
- Photo-electric apparatus. W. O. Snelling. No. 1,375,474; Apr. 19; v. 285; p. 508.
- Photochemical apparatus. W. O. Snelling. No. 1,365,740; Jan. 18; v. 282; p. 410.
- Photochemical apparatus. W. O. Snelling. No. 1,382,252; June 21; v. 287; p. 476.
- Photo-electric cell. T. W. Case. No. 1,366,625; May 3; v. 286; p. 43.
- Photo-electric cell. T. W. Case. No. 1,376,606; May 3; v. 286; p. 43.
- Photo-electric cell, Method of and means for making same. J. Kunz. No. 1,381,474; June 14; v. 287; p. 270.
- Photo-electric cells, Producing. T. W. Case. No. 1,376,604; May 3; v. 286; p. 43.
- Photo-electric translating device. H. J. van der Bijl. No. 1,369,764; Feb. 22; v. 283; p. 707.
- Photoengraving-plates, Method and apparatus for preparing. J. S. Freer. No. 1,373,658; Apr. 5; v. 285; p. 54.
- Photo-film clip. L. F. McKelvey and J. A. Brandenburger. No. 1,392,516; Oct. 4.
- Photogrammetric survey and apparatus therefor, Method of. U. Nistri. No. 1,396,047; Nov. 8.
- Photograph-album. L. L. Witte. No. 1,385,196; July 19; v. 288; p. 532.
- Photograph-development apparatus. H. Shapiro. No. 1,366,748; Jan. 25; v. 282; p. 653.
- Photograph-film sealer. V. S. Blackett. No. 1,372,593; Mar. 22; v. 285; p. 709.
- Photograph or film and producing same, Color. F. E. Ives. No. 1,376,940; May 3; v. 286; p. 107.
- Photograph or picture support. H. Gilbert. No. 1,365,480; Jan. 11; v. 282; p. 320.
- Photographer's head-screen. J. J. Schuermann. No. 1,378,904; May 24; v. 286; p. 664.
- Photographs, Device for making stereoscopic. W. J. Prucha. No. 1,371,438; Mar. 15; v. 284; p. 430.
- Photographic accessory. C. Schilling. No. 1,372,458; Mar. 22; v. 284; p. 682.
- Photographic apparatus. F. E. Ives. No. 1,383,543; July 5; v. 288; p. 59.
- Photographic apparatus. G. de Ram. No. 1,382,486; June 21; v. 287; p. 522.
- Photographic apparatus, Aerial. J. Gordon, Jr. No. 1,372,746; Mar. 29; v. 284; p. 779.
- Photographic apparatus, Apparatus for engaging and fastening plate holder frames and film holders on the body of. H. Fouasse. No. 1,370,529; Mar. 8; v. 284; p. 191.
- Photographic apparatus, Support for. E. Hüsl. No. 1,372,431; Mar. 22; v. 284; p. 677.
- Photographic continuous-printing apparatus and process. H. Shapiro. No. 1,371,400; Mar. 15; v. 284; p. 423.
- Photographic developer and developing latent images. A. S. McDaniel and A. H. Nietz. No. 1,370,896; Mar. 8; v. 284; p. 262.
- Photographic developing apparatus. J. S. Greene. No. 1,381,871; June 14; v. 287; p. 346.
- Photographic drying-machine. A. W. Dreyfoos. No. 1,385,365; July 26; v. 288; p. 642.
- Photographic diaphragm. R. L. Curran. No. 1,368,608; Feb. 15; v. 283; p. 442.
- Photographic enlarging, copying, and reducing apparatus, Upright. J. G. Brown. No. 1,393,671; Nov. 29.
- Photographic exposing apparatus. W. F. Folmer. No. 1,383,395; July 5; v. 288; p. 29.
- Photographic exposure mechanism. D. M. Hurlburt. No. 1,383,505; July 5; v. 288; p. 10.
- Photographic exposure-meter. W. Derichsweiler. No. 1,377,564; May 10; v. 286; p. 282.
- Photographic exposures, Method of and apparatus for determining. V. L. Ellicott. No. 1,385,940; July 26; v. 288; p. 758.
- Photographic exposures, Method of and apparatus for designating. H. J. Gaisman. No. 1,396,035; Nov. 8.
- Photographic film. P. C. Seel, H. Combs, and R. Kemp. No. 1,370,922; Mar. 8; v. 284; p. 266.
- Photographic-film-developing tank. W. C. Motteram. No. 1,367,074; Feb. 1; v. 283; p. 38.
- Photographic-film-supporting frame. G. I. Schreiber. No. 1,391,982; Sept. 27; v. 290; p. 717.
- Photographic lenses, Diaphragm for. G. W. Cooper. No. 1,372,645; Mar. 22; v. 284; p. 718.
- Photographic material, Color-sensitized. F. F. Renwick and O. Bloch. No. 1,372,548; Mar. 22; v. 284; p. 699.
- Photographic material, Means for autographing sensitive. J. W. Ozols. No. 1,376,032; Apr. 26; v. 285; p. 646.
- Photographic moving-picture films, Machine for treating. C. A. Sentou and E. Jacquet. No. 1,385,403; July 26; v. 288; p. 649.
- Photographic negatives, Process and apparatus for producing. P. H. Wedmark. No. 1,379,949; May 31; v. 286; p. 936.
- Photographic negatives with liquids, Apparatus for the treatment of. S. de Procoudine-Gorsky. No. 1,373,311; Mar. 29; v. 284; p. 892.
- Photographic pasteboard, Apparatus for polishing. C. A. Satinl. No. 1,366,520; Jan. 25; v. 282; p. 607.
- Photographic pictures, Method and apparatus for producing colored. J. H. Christensen. No. 1,373,053; Mar. 29; v. 284; p. 840.
- Photographic-plate holder. C. E. Hutchins. No. 1,380,209; May 31; v. 286; p. 985.
- Photographic-plate holder. J. Tessier. No. 1,398,951; Nov. 29.
- Photographic plates and films, Sensitometer for testing with accuracy the speed, latitude, and color sensitivity of. R. Davis. No. 1,382,272; June 21; v. 287; p. 480.
- Photographic printer. J. W. C. Shipman. No. 1,369,560; Feb. 22; v. 283; p. 666.
- Photographic-printing apparatus. W. F. Folmer. No. 1,378,101; May 17; v. 286; p. 438.
- Photographic-printing apparatus. W. C. Huebner. No. 1,377,249; May 10; v. 286; p. 222.
- Photographic-printing apparatus. W. C. Huebner. No. 1,377,250; May 10; v. 286; p. 222.
- Photographic-printing apparatus. F. V. Koepke. No. 1,373,893; Apr. 5; v. 285; p. 100.
- Photographic-printing frame. A. A. Barber. No. 1,389,615; Sept. 6; v. 290; p. 11.
- Photographic-printing machine. E. E. Sheldon. No. 1,377,099; May 3; v. 286; p. 137.
- Photographic-printing machine. W. D. Wood. No. 1,384,372; July 12; v. 288; p. 280.
- Photographic prints on metal. P. V. Snow. (Reissue.) No. 1,51,103; May 10; v. 286; p. 367.
- Photographic purposes, Time-switch for. A. Büchl. No. 1,390,336; Sept. 13; v. 290; p. 247.
- Photographic records, Method and apparatus for making. C. E. K. Mees. No. 1,396,770; Nov. 15.
- Photographic reproduction. R. John. No. 1,374,853; Apr. 12; v. 285; p. 326.
- Photographic shutter. H. R. Ponton. No. 1,391,790; Sept. 27; v. 290; p. 676.
- Photographic shutter. A. Wollensak and F. A. G. Pirwitz. No. 1,397,669; Nov. 22.
- Photographic shutter, Between-the-lens. G. F. Rose. No. 1,377,366; May 10; v. 286; p. 246.
- Photographic stand. R. Hastings. No. 1,365,688; Jan. 18; v. 282; p. 400.
- Photographic view-finder. F. M. Barney. No. 1,370,776; Mar. 8; v. 284; p. 240.
- Photography. E. W. Clark. No. 1,372,936; Mar. 29; v. 284; p. 818.
- Photography, Color. W. Friese-Greene. No. 1,391,310; Sept. 20; v. 290; p. 507.
- Photography, Color. J. T. Smith. No. 1,390,252; Sept. 6; v. 290; p. 138.
- Photography, Color. R. L. Stinchfield. No. 1,364,958; Jan. 11; v. 282; p. 220.
- Photography, Element for use in color. R. L. Stinchfield. No. 1,364,959; Jan. 11; v. 282; p. 220.
- Photography, Portrait. G. Bettini. No. 1,368,880; Feb. 15; v. 283; p. 495.
- Photography, Selecting-screen for polychromatic. A. Keller-Dorian. No. 1,372,515; Mar. 22; v. 284; p. 693.
- Photographing and developing apparatus. G. C. Beldler. No. 1,377,454; May 10; v. 286; p. 262.
- Photography, Color. W. Friese-Greene. No. 1,383,460; July 5; v. 288; p. 42.
- Photogravure etching, Method and apparatus for. J. H. Andresen. No. 1,371,338; Mar. 15; v. 284; p. 410.
- Photomechanical printing-plates, Cooler for. F. T. Powers. No. 1,373,909; Apr. 5; v. 285; p. 103.
- Photometer. W. F. Little and C. H. Sharp. No. 1,396,963; Nov. 15.
- Photometric device. V. C. Crites. No. 1,379,172; May 24; v. 286; p. 715.
- Photoprinting-box. C. L. Parks. No. 1,389,268; Aug. 30; v. 289; p. 891.
- Photoprinting device. H. G. Eisenhand. No. 1,392,312; Oct. 4.
- Photosensitive plates and the like, Holding means for. W. C. Huebner. No. 1,391,116; Sept. 20; v. 290; p. 468.



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- Photosensitizing dye effective for infra-red radiation. E. Q. Adams and H. L. Haller. No. 1,374,872; Apr. 12; v. 285; p. 330.
- Photosculpture. M. C. Hopkins. No. 1,382,978; June 28; v. 287; p. 669.
- Phthaleins, Producing. A. L. Rispler. No. 1,381,503; June 14; v. 287; p. 275.
- Physical developer for rowing exercise. T. Britt. No. 1,401,038; Dec. 20.
- Planissimo device of the curtain type. G. Cloetens. No. 1,392,247; Sept. 27; v. 290; p. 770.
- Piano-action. W. G. Betz. No. 1,389,290; Aug. 30; v. 289; p. 895.
- Piano-action. G. W. Braunsdorf. No. 1,368,107; Feb. 8; v. 283; p. 296.
- Piano-action bushing. J. R. Semple. No. 1,369,196; Feb. 22; v. 283; p. 696.
- Piano action, Player-. H. R. Heller. No. 1,393,123; Oct. 11.
- Piano action, Player-. H. R. Heller. No. 1,401,778; Dec. 27.
- Piano action, Pneumatic player-. F. Dathan. No. 1,390,430; Sept. 13; v. 290; p. 266.
- Piano actions, Bracket for grand-. C. W. Hall and F. E. Wheeler. No. 1,391,054; Sept. 20; v. 290; p. 455.
- Piano-actions, Pivotal joint of. A. D. Towner. No. 1,365,209; Jan. 11; v. 282; p. 268.
- Piano-actions, Self-adjusting wire flanges for. F. L. George. No. 1,382,828; June 28; v. 287; p. 640.
- Piano attachment, Supporting and protecting. J. Gervais, Jr. No. 1,389,825; Sept. 6; v. 290; p. 53.
- Piano-bench. L. M. Adler. No. 1,401,027; Dec. 20.
- Piano construction, Grand-. B. C. Edmands. No. 1,401,115; Dec. 20.
- Piano-hammers, Extract for. B. J. Starks. No. 1,365,559; Jan. 11; v. 282; p. 336.
- Piano-hammers, Making. I. Wrozina. No. 1,374,974; Apr. 19; v. 285; p. 411.
- Piano-key-repair clamp. E. R. Crandall. No. 1,371,073; Mar. 8; v. 284; p. 296.
- Piano-keys, Pellet-inserting machine for. S. Sylvester. No. 1,383,497; July 5; v. 288; p. 49.
- Piano mechanism, Suction attachment for player-. R. A. Guarneri. No. 1,380,473; June 7; v. 287; p. 28.
- Piano-mover. D. F. Hagerty. No. 1,388,562; Aug. 23; v. 289; p. 696.
- Piano, Player-. S. L. Fisher. No. 1,384,993; July 19; v. 288; p. 490.
- Piano, Player-. S. L. Fisher. No. 1,391,376; Sept. 20; v. 290; p. 520.
- Piano-player, A. R. Gillham. No. 1,390,697; Sept. 13; v. 290; p. 320.
- Piano, Player-. A. G. Guibransen. No. 1,391,107; Sept. 20; v. 290; p. 466.
- Piano-Player-. O. M. Kennedy. No. 1,379,926; May 31; v. 286; p. 931.
- Piano, Player-. E. D. Moore. No. 1,369,530; Feb. 22; v. 283; p. 660.
- Piano, Player-. T. Randolph. No. 1,366,277; Jan. 18; v. 282; p. 516.
- Piano-player, Pneumatic. C. E. Peterson. No. 1,389,694; Sept. 6; v. 290; p. 27.
- Piano-players, and producing same, Music-roll for. A. S. Jay. No. 1,381,641; June 14; v. 287; p. 301.
- Piano-player-roll container. F. W. Miller. No. 1,374,462; Apr. 12; v. 285; p. 251.
- Piano-players, Transposing apparatus for mechanical. F. B. Cooling. No. 1,364,722; Jan. 4; v. 282; p. 130.
- Piano-players, Wind-chest for mechanical. J. J. M. Tricotel and J. J. Herrburger. No. 1,367,543; Feb. 8; v. 283; p. 189.
- Piano-roll centralizer, Player-. J. F. Lauda. No. 1,397,255; Nov. 15.
- Piano-strings, Pressure-bar for. A. G. Gardner. No. 1,375,146; Apr. 19; v. 285; p. 445.
- Piano-wire, Rust-proof. M. J. Udy and F. C. Nicholson. No. 1,383,174; June 28; v. 287; p. 706.
- Pianos, Accompaniment control for player-. R. S. Smith. No. 1,382,749; June 28; v. 287; p. 625.
- Pianos and other purposes, Pedal device for. B. H. Jefferson and W. I. Kirk. No. 1,374,890; Apr. 12; v. 285; p. 333.
- Pianos and other purposes, Pedal device for. B. H. Jefferson and W. I. Kirk. No. 1,374,891; Apr. 12; v. 285; p. 333.
- Pianos and similar instruments, Indicator for player-. C. H. Mayer. No. 1,373,752; Apr. 5; v. 285; p. 71.
- Pianos, Attachment for player-. J. H. Bates. No. 1,390,421; Sept. 13; v. 290; p. 264.
- Pianos, Automatic expression device for player. S. L. Fisher. No. 1,369,524; Feb. 22; v. 283; p. 659.
- Pianos, Bridle-strap for upright. G. J. Becker. No. 1,366,110; Jan. 18; v. 282; p. 483.
- Pianos, Detachable keyboard for transposing music on. I. Tow. No. 1,392,883; Oct. 4.
- Pianos, End-binder for record-sheets of player-. O. L. Koch, Jr. No. 1,398,901; Nov. 29.
- Pianos, Governor for player-. C. Freborg. No. 1,381,911; June 21; v. 287; p. 414.
- Pianos, Harmonic damper for. G. Cloetens. No. 1,392,244; Sept. 27; v. 290; p. 769.
- Pianos, Motor-mounting for player-. C. Freborg. No. 1,385,819; July 26; v. 288; p. 735.
- Pianos, Pianissimo device for grand. J. A. Hussey. No. 1,392,331; Oct. 4.
- Pianos, pipe-organs, or similar instruments, Violin-playing attachment for. D. R. Adamson. No. 1,397,479; Nov. 15.
- Pianos, Plectrum attachment for. F. Bingaman. No. 1,374,979; Apr. 19; v. 285; p. 412.
- Pianos, Pumping system for player-. R. W. Scott. No. 1,389,322; Aug. 30; v. 289; p. 901.
- Pianos, Pumping system for player-. R. W. Scott. No. 1,389,323; Aug. 30; v. 289; p. 901.
- Pianos, Tone-modulating device for. R. C. Pinder. No. 1,389,160; Aug. 30; v. 289; p. 869.
- Pianos, Tune-selector for automatic. R. I. Willcox. No. 1,398,988; Dec. 6.
- Pianos, Unit system for player-. L. H. Pray. No. 1,401,730; Dec. 27.
- Pianoforte-soundboard. J. A. Murdoch. No. 1,377,218; May 10; v. 286; p. 216.
- Pianofortes, pianofortes, and the like, Sounding-board for grand. A. Brandes. No. 1,364,451; Jan. 4; v. 282; p. 96.
- Piccolos, Headpiece for metallic. N. Christensen. No. 1,376,004; Apr. 26; v. 285; p. 641.
- Pick. L. O. McElhaney. No. 1,388,872; Aug. 30; v. 289; p. 811.
- Pick, Farm-. H. J. Ninman. No. 1,369,835; Mar. 1; v. 284; p. 15.
- Pick-stick check. J. A. Andrews and J. W. Herbert. No. 1,394,265; Oct. 18.
- Pick-up and separating machine. G. I. Kohr. No. 1,385,874; July 26; v. 288; p. 746.
- Pickax. A. R. Thomson. No. 1,369,499; Feb. 22; v. 283; p. 654.
- Picker: See—
- |                  |                |
|------------------|----------------|
| Corn-picker.     | Loom-picker.   |
| Cotton-picker.   | Potato-picker. |
| Cucumber-picker. | Stone-picker.  |
| Fruit-picker.    | Stylus-picker. |
- Picker. H. G. West. No. 1,397,475; Nov. 15.
- Picker-check. E. Friar. No. 1,389,823; Sept. 6; v. 290; p. 53.
- Picker-stick. A. Sternberger. No. 1,372,727; Mar. 29; v. 284; p. 775.
- Picker-stick. H. W. Morgan and J. O. Whitener. No. 1,391,266; Sept. 20; v. 290; p. 498.
- Picker-stick check. J. W. Herbert and J. A. Andrews. No. 1,369,430; Feb. 22; v. 283; p. 641.
- Picker-stick check. E. H. Ryon and R. E. Welsh. No. 1,366,952; Feb. 1; v. 283; p. 14.
- Picker-stick check and stop. R. G. Turner. No. 1,366,978; Feb. 1; v. 283; p. 19.
- Picker-stick-cushioning means. T. P. Haydock. No. 1,392,154; Sept. 27; v. 290; p. 751.
- Pickers, Machine for making. W. A. Parmenter. No. 1,392,259; Sept. 27; v. 290; p. 773.
- Picking and cutting cane-straw and plowing under the same, Machine for. C. G. Huelves. No. 1,374,149; Apr. 5; v. 285; p. 149.
- Picking-knife. R. C. Cottman. No. 1,369,326; Feb. 22; v. 283; p. 620.
- Picking machine, Bean-. R. Judson. No. 1,366,665; Jan. 25; v. 282; p. 636.
- Picking and cleaning apparatus. C. Scholtz. No. 1,368,357; Feb. 15; v. 283; p. 394.
- Pickling process. J. Coulson. No. 1,374,552; Apr. 12; v. 285; p. 268.
- Pickling solutions, Method of and apparatus for reclaiming spent. H. S. Marsh and R. S. Cockran. No. 1,369,451; Feb. 22; v. 283; p. 645.
- Pickling solutions, Method and apparatus for reclaiming spent. H. S. Marsh and R. S. Cochran. (Reissue.) No. 15,119; June 7; v. 287; p. 149.
- Pickling solutions, Reclaiming spent. J. A. Shaw. No. 1,384,974; July 19; v. 288; p. 486.
- Picks, Device for removing broken. R. J. Adams. No. 1,371,659; Mar. 15; v. 284; p. 473.
- Picot edging for fabrics. L. Onderdonk. No. 1,378,270; May 17; v. 286; p. 470.
- Picric acid, Producing. C. M. A. Stine and J. L. Gilson. No. 1,393,714; Oct. 11.
- Pictorial device. B. M. Bennett. No. 1,379,739; May 31; v. 286; p. 896.
- Picture and target apparatus, Motion-. G. A. Kerestes. No. 1,389,877; Sept. 6; v. 290; p. 64.
- Picture advertising-sign, Automatic motion-. F. E. Morehouse and C. O. Manning. No. 1,367,558; Feb. 8; v. 283; p. 192.
- Picture apparatus, Lamphouse for moving-. N. Power. No. 1,383,754; July 5; v. 288; p. 103.
- Picture apparatus, Motion-. G. W. Bingham. No. 1,392,475; Oct. 4.
- Picture apparatus, Motion-. W. A. Condon. No. 1,390,763; Sept. 13; v. 290; p. 334.
- Picture apparatus, Moving-. F. H. Grabhorn. No. 1,399,208; Dec. 6.
- Picture apparatus, Motion-. C. F. Jenkins. No. 1,378,462; May 17; v. 286; p. 506.
- Picture apparatus, Motion-. A. M. Mayle. No. 1,381,727; June 14; v. 287; p. 319.



- Picture apparatus, Motion-. N. Pemberton-Billing. No. 1,391,341; Sept. 20; v. 290; p. 514.
- Picture apparatus, Motion-. E. Schneider. No. 1,368,763; Feb. 15; v. 283; p. 473.
- Picture apparatus, Motion-. F. E. Weaver. No. 1,367,109; Feb. 1; v. 283; p. 45.
- Picture apparatus, Shutter for motion-. R. W. Pittman. No. 1,398,242; Nov. 29.
- Picture apparatus, Talking-machine for moving-. W. M. Clark. No. 1,367,863; Feb. 8; v. 283; p. 251.
- Picture apparatus, Talking-moving-. W. M. Clark. No. 1,388,515; Aug. 23; v. 289; p. 687.
- Picture camera, Motion-. F. Mladinich. No. 1,377,265; May 10; v. 286; p. 25.
- Picture, Color. I. Furman. No. 1,371,969; Mar. 15; v. 284; p. 532.
- Picture, Duplex. F. Meeks. No. 1,379,642; May 31; v. 286; p. 878.
- Picture-film-feeding device, Motion-. R. W. Pittman. No. 1,388,886; Aug. 30; v. 289; p. 814.
- Picture-film reels, Releasing device for motion-. E. M. Chase. No. 1,386,839; Aug. 9; v. 289; p. 246.
- Picture-film reels, Retainer for motion-. E. M. Chase. No. 1,392,910; Oct. 11.
- Picture films, Drier for motion-. J. G. Capstaff. No. 1,394,249; Oct. 18.
- Picture films, Machine for coloring motion-. G. Taussig. No. 1,396,791; Nov. 15.
- Picture films, Making animated cartoon motion-. C. F. Lederer. No. 1,375,918; Apr. 26; v. 285; p. 624.
- Picture films, Method and machine for drying, cleaning, and polishing moving-. J. W. Gunby. No. 1,401,771; Dec. 27.
- Picture films, Method of coloring motion-. G. Taussig. No. 1,398,286; Nov. 29.
- Picture films, Process of and apparatus for producing moving-. E. Hurd. No. 1,380,298; May 31; v. 286; p. 1001.
- Picture films, Producing colored motion-. A. T. Saunders. No. 1,366,954; Feb. 1; v. 283; p. 15.
- Picture films, Production of "dissolve" effects in moving-. W. O. Owen. No. 1,397,600; Nov. 22.
- Picture films, Production of insets on moving-. W. C. Owen. No. 1,397,602; Nov. 22.
- Picture-frame. J. E. Frechette and L. Hachez. No. 1,394,675; Oct. 25.
- Picture-frame. I. Starr. No. 1,381,762; June 14; v. 287; p. 325.
- Picture-frame, Adjustable. A. Petrow. No. 1,385,950; July 26; v. 288; p. 760.
- Picture-frame attachment. M. V. Stroud. No. 1,400,920; Dec. 20.
- Picture-hanger. P. J. Goble. No. 1,400,150; Dec. 13.
- Picture-hanger. M. Helka. No. 1,382,908; June 28; v. 287; p. 655.
- Picture-hanger. W. T. Pierce. No. 1,372,543; Mar. 22; v. 284; p. 698.
- Picture machine, Convertible moving-. F. W. Hochstetter. No. 1,372,619; Mar. 22; v. 284; p. 713.
- Picture machine, Motion-. H. A. De Vry. No. 1,382,277; June 21; v. 287; p. 481.
- Picture machine, Motion-. P. J. McCullough. No. 1,399,504; Dec. 6.
- Picture machine, Motion-. C. F. Jenkins. No. 1,385,325; July 19; v. 288; p. 557.
- Picture machine, Moving-. F. W. Hochstetter. No. 1,372,621; Mar. 22; v. 284; p. 713.
- Picture machine, Moving-. A. H. Seeley. No. 1,383,571; July 5; v. 288; p. 65.
- Picture-machine shutter, Moving-. M. L. Parret. No. 1,386,198; Aug. 2; v. 289; p. 47.
- Picture-machine support, Moving-. M. L. Parret. No. 1,394,217; Oct. 18.
- Picture machines, Attachment for moving-. B. G. Ross and O. Brindley. No. 1,383,428; July 5; v. 288; p. 35.
- Picture machines, Combustion-arrester for moving-. R. J. Koepf. No. 1,379,449; May 24; v. 286; p. 767.
- Picture machines, Expanding claw for moving-. H. G. Cunningham. No. 1,380,532; June 7; v. 287; p. 39.
- Picture-machines, Film-movement mechanism of. W. E. Minue. No. 1,383,006; June 28; v. 287; p. 674.
- Picture machines, Framing device for moving-. F. W. Hochstetter. No. 1,365,102; Jan. 11; v. 282; p. 247.
- Picture machines, Lamp-house for moving-. N. Power. No. 1,383,753; July 5; v. 288; p. 103.
- Picture machines, Protective device for moving-. C. R. Carlson. No. 1,369,397; Feb. 22; v. 283; p. 634.
- Picture-machines. Reel for. J. K. E. Tervas. No. 1,395,164; Oct. 25.
- Picture machines, Safety device for moving-. C. F. Mehl, H. B. Liebler, J. Nall, and E. J. Nobbe. No. 1,395,724; Nov. 1.
- Picture machines, Safety device for moving-. C. F. Mehl, H. B. Liebler, J. Nall, and E. J. Nobbe. No. 1,400,760; Dec. 20.
- Picture machines, Stage-effect-controlling device for use in conjunction with motion-. F. R. Sommermeyer. No. 1,379,654; May 31; v. 286; p. 881.
- Picture machines, Sprocket-pin driver for motion-. C. W. Ryder. No. 1,381,667; June 14; v. 287; p. 307.
- Picture mechanism, Stereoscopic-motion-. E. B. Moore. No. 1,396,651; Nov. 8.
- Picture-making. W. L. Hall. No. 1,372,811; Mar. 29; v. 284; p. 792.
- Picture-mounting device. A. W. Engel. No. 1,386,771; Aug. 9; v. 289; p. 231.
- Picture or design having motion effect. T. A. B. Carver. No. 1,398,838; Nov. 29.
- Picture-projecting apparatus, Safety device for. J. W. South. No. 1,376,297; Apr. 26; v. 285; p. 697.
- Picture-projecting machine, Motion-. J. Darby. No. 1,366,363; Jan. 25; v. 282; p. 575.
- Picture-projecting apparatus. A. B. Mueller. No. 1,389,775; Sept. 6; v. 290; p. 43.
- Picture-projecting apparatus. A. B. Mueller. No. 1,389,776; Sept. 6; v. 290; p. 43.
- Picture-projecting apparatus. I. Serrurier. No. 1,385,955; July 26; v. 288; p. 761.
- Picture projection apparatus, Motion-. E. Mechau. Nos. 1,401,345-6; Dec. 27.
- Picture-projecting apparatus, Motion-. E. D. Tillyer. No. 1,385,162; July 19; v. 288; p. 526.
- Picture-projecting-machine shutter, Motion-. A. C. Frist. No. 1,375,375; Apr. 19; v. 285; p. 489.
- Picture-projector. F. J. Detwiler and M. H. Burkholder. No. 1,373,491; Apr. 5; v. 285; p. 22.
- Picture projector, Moving-. G. W. Bingham. No. 1,371,218; Mar. 15; v. 284; p. 386.
- Picture projector, Motion-. C. Kesses. No. 1,384,527; July 12; v. 288; p. 312.
- Picture records, Means for coordinating sound and motion-. W. E. Williams. No. 1,389,407; Aug. 30; v. 289; p. 918.
- Picture reel and container therefor, Motion-. H. Hummell, F. W. Martin, and C. J. Schwall. No. 1,371,786; Mar. 15; v. 284; p. 497.
- Picture reel, Motion-. E. H. Goodrich and H. C. Martinelli. No. 1,389,500; Aug. 30; v. 289; p. 936.
- Picture reels, Shipping-container for motion-. A. B. Carter. No. 1,365,659; Jan. 18; v. 282; p. 394.
- Picture spinning-top. W. R. D. McQuarrie. No. 1,393,148; Oct. 11.
- Picture stage illusion, Motion-. O. A. Owen. No. 1,395,513; Nov. 1.
- Picture, Stereoscopic. A. J. Macy. No. 1,386,720; Aug. 9; v. 289; p. 221.
- Pictures, Analyzing, transmitting, and reconstructing. T. M. Down. No. 1,379,905; May 31; v. 286; p. 927.
- Pictures, Apparatus for projection of motion-. C. Anselmi and M. Viturro. No. 1,393,735; Oct. 18.
- Pictures by projection, Method of and apparatus for producing. H. A. Smith. No. 1,394,797; Oct. 25.
- Pictures, Combined apparatus for taking and projecting. E. Allais. No. 1,397,496; Nov. 22.
- Pictures in colors, Apparatus for taking and projecting. A. P. Furman. No. 1,371,970; Mar. 15; v. 284; p. 532.
- Pictures, Machine for projecting continuous moving. M. F. and L. D. Hill. No. 1,367,475; Feb. 1; v. 283; p. 118.
- Pictures on film-bands, Process and device for ascertaining the correct exposure for copying rows of. A. Schulze. No. 1,387,318; Aug. 9; v. 289; p. 341.
- Pictures, Producing moving. H. K. Sandell. No. 1,381,849; June 14; v. 287; p. 341.
- Pictures, Production of animated. T. Armat. No. 1,390,861; Sept. 13; v. 290; p. 353.
- Pictures, Screen for exhibiting moving. F. W. Hochstetter. No. 1,372,620; Mar. 22; v. 284; p. 713.
- Pictures, Screen for exhibiting moving. F. W. Hochstetter. No. 1,389,357; Aug. 30; v. 289; p. 909.
- Pictures, Synchronizer for talking motion-. K. M. Walley. No. 1,393,859; Oct. 18.
- Pieces which should be of the same actual size, Instrument adapted to disclose the difference actually existing between. F. Turrettini. No. 1,400,331; Dec. 13.
- Pie crimper and cutter. R. H. F. Stagge. No. 1,400,383; Dec. 13.
- Pie-cutter. W. D. Boyce. No. 1,371,195; Mar. 8; v. 284; p. 318.
- Pie-making machine. W. Ehrlich. No. 1,397,272; Nov. 15.
- Pie marker and trimmer. E. L. Simpson. No. 1,377,974; May 10; v. 286; p. 362.
- Pie-pan, Sectional. M. B. Neumeister. No. 1,397,775; Nov. 22.
- Pier construction. J. E. Snell. No. 1,391,516; Sept. 20; v. 290; p. 549.
- Pier-door. L. McHarg. No. 1,369,425; Feb. 22; v. 283; p. 640.
- Piercing device, Portable. G. H. Connor. No. 1,398,419; Nov. 29.
- Pigment carbon derived from vegetable pith. S. E. Seaman. No. 1,379,222; May 24; v. 286; p. 724.
- Pigment and producing same. F. Fireman. Nos. 1,392,925-7; Oct. 11.
- Pigment, Manufacture of a white. A. L. Barbe. No. 1,396,914; Nov. 15.
- Pigments, Producing composite titanium. H. H. Buckman. No. 1,396,924; Nov. 15.
- Pigments, Production of fine soot suitable for the manufacture of. E. Szarvasy. No. 1,383,674; July 5; v. 288; p. 87.



## Alphabetical list of inventions—Continued.

- Pile. C. S. Howell. No. 1,366,460; Jan. 25; v. 282; p. 596.
- Pile. Cluster. N. G. Scott. No. 1,365,197; Jan. 11; v. 282; p. 265.
- Pile-cutter. A. Clapperton. No. 1,381,905; June 21; v. 287; p. 412.
- Pile-driver. N. G. Scott. No. 1,375,738; Apr. 26; v. 285; p. 590.
- Pile-driving apparatus. A. G. Rotinoff. No. 1,391,344; Sept. 20; v. 290; p. 514.
- Pile-driving machine. A. M. Bellony. No. 1,395,895; Nov. 1.
- Pile. Luminous. T. C. Smith. No. 1,394,449; Oct. 18.
- Pile-puller. C. S. Boardman. No. 1,376,856; May 3; v. 286; p. 91.
- Pile-pulling rig. M. D. Riker. No. 1,390,643; Sept. 13; v. 290; p. 311.
- Pile shell or case. G. R. Heckle. No. 1,366,179; Jan. 18; v. 282; p. 496.
- Piles and the like. Installation of concrete footings for. R. B. Tufts. No. 1,396,542; Nov. 8.
- Piling construction. Sheet. J. Stockfleth. No. 1,371,709; Mar. 15; v. 284; p. 483.
- Piling device. W. H. Robertson and F. W. Fisher. No. 1,371,055; Mar. 8; v. 284; p. 292.
- Piling-machine. F. Sommers. No. 1,399,528; Dec. 6.
- Pillars. Securing device for removable. T. J. Kehoe. No. 1,379,826; May 31; v. 286; p. 912.
- Pillow. J. E. Patton. No. 1,386,652; Aug. 9; v. 289; p. 207.
- Pillow-case. J. C. Jennings. No. 1,380,480; June 7; v. 287; p. 30.
- Pillow or like object. C. S. Banks. No. 1,385,355; July 26; v. 288; p. 640.
- Pills. Machine for filling pill-boxes with a regular quantity of. R. S. Mercer. No. 1,400,304; Dec. 13.
- Pilot-burner. L. Passano. No. 1,366,591; Jan. 25; v. 282; p. 622.
- Pilot-light-burner control. E. Rector. No. 1,399,656; Dec. 6.
- Pin: See—  
     Bonding-pin. Pedal-pin.  
     Bowling-pin. Rolling-pin.  
     Chuck-pin. Safety-pin.  
     Clothespin. Seat-cover pin.  
     Collar-pin. Securing-pin.  
     Cotter-pin. Surface pin.  
     Hatpin. Tag safety-pin.  
     Journal-box hinge-pin. Wrist-pin.  
     Knuckle-pin.
- Pin. E. Morehouse. No. 1,393,901; Oct. 18.
- Pin-catch. J. Fielding. No. 1,382,966; June 28; v. 287; p. 667.
- Pin component and making same. A. T. Wall. No. 1,378,501; May 17; v. 286; p. 514.
- Pin-fastener. A. W. Koski and E. Casey. No. 1,375,033; Apr. 19; v. 285; p. 423.
- Pin-fastener. N. Kildahl. No. 1,391,480; Sept. 20; v. 290; p. 541.
- Pin-fastener. E. Richard. No. 1,369,355; Feb. 22; v. 283; p. 627.
- Pin-lifter attachment. S. H. Campbell. No. 1,387,684; Aug. 16; v. 289; p. 465.
- Pin or stake. Tethering. B. M. Bradford and J. F. Le Gere. No. 1,385,859; July 26; v. 288; p. 743.
- Pin-package. T. Harrison. No. 1,379,624; May 31; v. 286; p. 875.
- Pin-puller. J. Ditson. No. 1,393,094; Oct. 11.
- Pin. Safety-. J. H. Anderson. No. 1,383,054; June 28; v. 287; p. 684.
- Pin-ticket. C. F. White. No. 1,386,481; Aug. 2; v. 289; p. 100.
- Pin-tongue. J. H. Hennessey. No. 1,396,575; Nov. 8.
- Pin-tray. T. Harrison. No. 1,366,260; Jan. 18; v. 282; p. 512.
- Pinch-bar. A. F. Watson. No. 1,401,214; Dec. 27.
- Pinchcock. W. S. Avery. No. 1,397,481; Nov. 15.
- Pine-apple meat eradicator. G. E. Fisher. No. 1,369,231; Feb. 22; v. 283; p. 603.
- Pineapple-fleshing machine. J. Dowson. No. 1,370,634; Mar. 8; v. 284; p. 213.
- Pinking machine. Counter. M. E. Shackley. No. 1,365,794; Jan. 18; v. 282; p. 421.
- Pins and brooches. Safety-catch for. M. H. Le Marr. No. 1,386,574; Aug. 2; v. 289; p. 119.
- Pins and similar articles. Safety-catch for. A. Schroetter. No. 1,370,053; Mar. 1; v. 284; p. 56.
- Pins, buttons, &c. Safety-clasp for. F. Drissler. No. 1,368,124; Feb. 8; v. 283; p. 300.
- Pins. Display-card for safety-. J. Waldes. No. 1,391,287; Sept. 20; v. 290; p. 502.
- Pins. Machine for sizing dowel-. T. W. Foote. No. 1,401,331; Dec. 27.
- Pins, &c. Puller for crank-. G. G. Kepler. No. 1,393,026; Oct. 11.
- Pins. Safety-catch for. F. J. Engel. No. 1,397,092; Nov. 15.
- Pins. Tool for turning crank-. F. P. Bollinger. No. 1,386,984; Aug. 9; v. 289; p. 275.
- Pinwheel. W. C. Heindl. No. 1,367,389; Feb. 1; v. 283; p. 101.
- Pipe: See—  
     Bubble-pipe. Tobacco-pipe.  
     Concrete pipe. Organ-pipe.  
     Flattening pipe. Shower-pipe.  
     Gas service-pipe. Smoker's pipe.  
     Metal-end concrete pipe. Smoking-pipe.  
     Metal-end concrete pipe. Soap-bubble pipe.  
     Pipe. J. Austin. No. 1,388,158; Aug. 23; v. 289; p. 615.  
     Pipe. W. Ewart. No. 1,394,292; Oct. 18.  
     Pipe. O. R. Fritz. No. 1,366,071; Jan. 18; v. 282; p. 475.  
     Pipe. B. F. Johnson. No. 1,376,548; May 3; v. 286; p. 32.  
     Pipe and like stem. A. A. Crossman. No. 1,369,624; Feb. 22; v. 283; p. 679.  
     Pipe and nut wrench. C. McCarter. No. 1,374,748; Apr. 12; v. 285; p. 306.  
     Pipe. Apparatus for handling sewer-. W. H. Mayhew. No. 1,395,588; Nov. 1.  
     Pipe accelerator. Dry-. A. C. Rowley. No. 1,378,805; May 17; v. 286; p. 573.  
     Pipe-bending. L. H. Brinkman. No. 1,389,856; Sept. 6; v. 290; p. 60.  
     Pipe-bending device. L. W. Jones. No. 1,378,796; May 17; v. 286; p. 571.  
     Pipe-bending machine. H. P. Curtis. No. 1,401,394; Dec. 27.  
     Pipe-bending tool. M. C. Rosenfeld. No. 1,393,830; Oct. 18.  
     Pipe-bowl and making the same. R. M. Taylor. No. 1,368,371; Feb. 15; v. 283; p. 396.  
     Pipe-buck. J. C. Hughes. No. 1,400,067; Dec. 13.  
     Pipe-clamp. J. M. Neely. No. 1,381,217; June 14; v. 287; p. 223.  
     Pipe-cleaner. W. K. Benedict. No. 1,370,271; Mar. 1; v. 284; p. 98.  
     Pipe-cleaner. H. M. Murphy. No. 1,369,903; Mar. 1; v. 284; p. 98.  
     Pipe-coating machine. R. G. Taber. No. 1,375,979; Apr. 26; v. 285; p. 636.  
     Pipe-collar. E. Wilcke. No. 1,379,233; May 24; v. 286; p. 727.  
     Pipe. Concrete. W. M. Walker. No. 1,387,025; Aug. 9; v. 289; p. 283.  
     Pipe-conduits. Flanged coupling for. O. D. McFarland. No. 1,389,768; Sept. 6; v. 290; p. 41.  
     Pipe connection. Lead-. P. Mueller. No. 1,372,363; Mar. 22; v. 284; p. 664.  
     Pipe connector. Automatic train-. J. V. Robinson. (Re-issue.) No. 15,066; Mar. 15; v. 284; p. 539.  
     Pipe-connector support. Automatic-train-. W. P. Murphy. No. 1,381,584; June 14; v. 287; p. 291.  
     Pipe-coupling. J. L. Broschart. No. 1,391,456; Sept. 20; v. 290; p. 537.  
     Pipe-coupling. J. Elder. No. 1,365,025; Jan. 11; v. 282; p. 234.  
     Pipe-coupling. L. L. Freund. No. 1,372,876; Mar. 29; v. 284; p. 806.  
     Pipe-coupling. W. H. Fulton. No. 1,368,919; Feb. 15; v. 283; p. 503.  
     Pipe-coupling. B. F. Runyan. No. 1,394,791; Oct. 25.  
     Pipe-coupling. I. R. Storrie. No. 1,368,985; Feb. 15; v. 283; p. 514.  
     Pipe-coupling. R. A. Thom. No. 1,388,491; Aug. 23; v. 289; p. 683.  
     Pipe-coupling. F. L. Tibbetts. No. 1,398,083; Nov. 22.  
     Pipe-coupling. J. Williams. No. 1,401,847; Dec. 27.  
     Pipe-coupling. Automatic. G. N. Knappe. No. 1,378,468; May 17; v. 286; p. 508.  
     Pipe-cover. W. L. Guy. No. 1,389,868; Sept. 6; v. 290; p. 62.  
     Pipe-covering and fabric from which pipe-coverings are made. A. K. Burgstresser. No. 1,387,348; Aug. 9; v. 289; p. 347.  
     Pipe-covering. Metallic. J. A. Waldorf. No. 1,383,680; July 5; v. 288; p. 88.  
     Pipe-cutter. M. J. Caffrey. No. 1,373,300; Mar. 29; v. 284; p. 890.  
     Pipe-cutter. J. E. Donnelly and A. J. Grieser. No. 1,380,948; June 7; v. 287; p. 119.  
     Pipe-cutter. J. C. S. Hermistone. No. 1,376,936; May 3; v. 286; p. 106.  
     Pipe-cutter. D. Kilgour, Jr. No. 1,380,653; June 7; v. 287; p. 62.  
     Pipe-cutter. G. W. Miller. No. 1,392,192; Sept. 27; v. 290; p. 759.  
     Pipe-cutter. I. W. Nonneman. No. 1,384,208; July 12; v. 288; p. 246.  
     Pipe-cutter. I. W. Nonneman. No. 1,393,156; Oct. 11.  
     Pipe-cutter. I. W. Nonneman. No. 1,394,781; Oct. 25.  
     Pipe-cutter. H. W. Oster. No. 1,367,323; Feb. 1; v. 283; p. 87.  
     Pipe-cutting wheel. W. P. Joyce and H. A. Feldt. No. 1,374,663; Apr. 12; v. 285; p. 290.  
     Pipe. Device for unscrewing and withdrawing. W. C. Thomas, J. C. Dickens, and J. W. Fowler. No. 1,389,710; Sept. 6; v. 290; p. 30.  
     Pipe-engaging slip for rotaries. G. R. Livergood. No. 1,381,074; June 7; v. 287; p. 144.  
     Pipe-fitting. C. L. French. No. 1,377,878; May 10; v. 286; p. 344.



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- Pipe-fitting, L. M. Trautman and R. G. Smith. No. 1,369,991; Mar. 1; v. 284; p. 45.  
 Pipe-fitting, C. J. Trueman. No. 1,389,608; Sept. 6; v. 290; p. 9.  
 Pipe-cripping device, B. J. Steen. No. 1,391,804; Sept. 27; v. 290; p. 670.  
 Pipe-hanger, W. Harding. No. 1,399,960; Dec. 13.  
 Pipe-hanger, Adjustable. H. G. Carlson. No. 1,398,294; Nov. 29.  
 Pipe-hanger, Adjustable. L. R. Zifferer. No. 1,392,810; Oct. 4.  
 Pipe-holder, L. E. Ferguson. No. 1,384,055; July 12; v. 288; p. 215.  
 Pipe-holding band, C. N. Carlson. No. 1,381,279; June 14; v. 287; p. 234.  
 Pipe-joint, E. Forrer. No. 1,395,808; Nov. 1.  
 Pipe-joint, T. L. Fyffe. No. 1,379,811; May 31; v. 286; p. 909.  
 Pipe-joint, W. D. Moore. No. 1,365,530; Jan. 11; v. 282; p. 330.  
 Pipe-joint, S. E. Page. No. 1,377,024; May 3; v. 286; p. 123.  
 Pipe-joint, H. G. Plummer. No. 1,397,145; Nov. 15.  
 Pipe-joint, S. Sweeney. No. 1,365,805; Jan. 18; v. 282; p. 423.  
 Pipe-joint fastener, J. P. Kipp. No. 1,373,249; Mar. 29; v. 284; p. 880.  
 Pipe joint, Hydraulic, W. A. Pratt. No. 1,378,054; May 17; v. 286; p. 429.  
 Pipe-joints, Gate for pouring, R. B. and C. A. Howell. No. 1,390,133; Sept. 6; v. 290; p. 116.  
 Pipe-joints, Mortise for, C. J. Wood. No. 1,369,155; Feb. 22; v. 283; p. 588.  
 Pipe-laying apparatus, W. L. Chapman. No. 1,393,943; Oct. 18.  
 Pipe-lifter, W. H. Schultz. No. 1,364,589; Jan. 4; v. 282; p. 104.  
 Pipe machine, Concrete, T. W. Hammond, Jr. No. 1,371,239; Mar. 15; v. 284; p. 390.  
 Pipe, Machine for making and laying, J. F. Trusty and D. O. Davison. No. 1,398,815; Nov. 29.  
 Pipe-making machine, G. J. Olsen and F. Waterfield. No. 1,384,021; July 5; v. 288; p. 158.  
 Pipe or hose coupling, H. A. Denmire. No. 1,375,136; Apr. 19; v. 285; p. 443.  
 Pipe-patch, W. L. Long. No. 1,388,731; Aug. 23; v. 289; p. 729.  
 Pipe-perforator, G. W. Dunsworth. No. 1,398,320; Nov. 29.  
 Pipe-protector, L. H. Bradburn. No. 1,371,143; Mar. 8; v. 284; p. 309.  
 Pipe-rest, F. E. Chapman. No. 1,398,223; Nov. 29.  
 Pipe-screwing machine, M. C. Hole. No. 1,401,405; Dec. 27.  
 Pipe-section, H. D. and F. F. Kors. No. 1,366,694; Jan. 25; v. 282; p. 642.  
 Pipe sections, Means for forming concrete, J. E. Moody. No. 1,376,349; Apr. 26; v. 285; p. 707.  
 Pipe-shield, J. N. Dart. No. 1,399,851; Dec. 13.  
 Pipe-skelp, Apparatus for handling and forming, J. Simpson and H. E. Clay. No. 1,391,912; Sept. 27; v. 290; p. 702.  
 Pipe, Smoker's, J. D. Blaker. No. 1,371,726; Mar. 15; v. 284; p. 486.  
 Pipe-spider, Locked carriage, B. F. Hiniker. No. 1,375,964; Apr. 26; v. 285; p. 633.  
 Pipe-stopper, F. W. Latham. No. 1,377,840; May 10; v. 286; p. 336.  
 Pipe-switch, H. W. Knowlton and W. A. Newton. No. 1,400,609; Dec. 20.  
 Pipe, Thread-mold for concrete, J. G. Zwicker. No. 1,365,014; Jan. 11; v. 282; p. 231.  
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 Pipe-tongs, G. A. Lowrey. No. 1,401,417; Dec. 27.  
 Pipe-wrench, J. F. Astley. No. 1,400,930; Dec. 20.  
 Pipe-wrench, J. Findley. No. 1,390,112; Sept. 6; v. 290; p. 112.  
 Pipe-wrench, F. M. Hamilton. No. 1,379,978; May 31; v. 286; p. 941.  
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 Pipe-wrench, A. W. Kiefer. No. 1,380,566; June 7; v. 287; p. 46.  
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 Pipe-wrench, W. V. Ooley. No. 1,368,966; Feb. 15; v. 283; p. 511.  
 Pipe-wrench, C. E. Reed. No. 1,364,582; Jan. 4; v. 282; p. 103.  
 Pipe-wrench, C. E. Reed. No. 1,387,866; Aug. 16; v. 289; p. 502.  
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 Pipe-wrench, G. B. Trew. No. 1,388,079; Aug. 16; v. 289; p. 543.  
 Pipe-wrench, Adjustable, W. Whelan. No. 1,401,931; Dec. 27.  
 Pipe-wrench, Combination, F. F. Calhoun. No. 1,401,669; Dec. 27.  
 Pipe-wrench, Inside, A. Olson. No. 1,371,642; Mar. 15; v. 284; p. 470.  
 Pipe, Smoking-, W. Celeda. No. 1,401,876; Dec. 27.  
 Pipe, Machine for making reinforced-concrete, B. J. Primmer and J. L. Halstead. No. 1,400,457; Dec. 13.  
 Pipe or conduit hanger, J. F. Barry. No. 1,399,456; Dec. 6.  
 Pipe-union, L. Hachenberg. No. 1,396,196; Nov. 8.  
 Pipe-vise stand, Portable, W. S. Du Charme. No. 1,393,766; Oct. 18.  
 Pipes and angle-cocks, Means for holding train-, R. W. Burnett. No. 1,369,617; Feb. 22; v. 283; p. 678.  
 Pipes, Antifouling muffler for flush-, E. G. Hedges. No. 1,387,003; Aug. 9; v. 289; p. 279.  
 Pipes, Apparatus for making multiple beadings on, F. Heck. No. 1,399,383; Dec. 6.  
 Pipes, Apparatus for seasoning and finishing tobacco-, A. Dunhill. No. 1,383,193; June 28; v. 287; p. 710.  
 Pipes by centrifugal force, Manufacture of reinforced or ordinary concrete, P. L. M. Caron. No. 1,375,206; Apr. 19; v. 285; p. 457.  
 Pipes, Chemical-retainer for sewer-, N. R. Hageman. No. 1,383,938; July 5; v. 288; p. 141.  
 Pipes, Cut-out for exhaust-, S. P. Smurr. No. 1,400,325; Dec. 13.  
 Pipes, Deflector for fuel-, L. E. Baker. No. 1,400,511; Dec. 20.  
 Pipes, Expansion-joint for, S. Sheriff. No. 1,400,465; Dec. 13.  
 Pipes, Lining metal, A. J. Israel. No. 1,368,632; Feb. 15; v. 283; p. 447.  
 Pipes, Machine for flanging soft-metal, P. Mueller and A. C. Schuermann. No. 1,383,839; July 5; v. 288; p. 121.  
 Pipes, Machine for flanging soft-metal, P. Mueller, A. C. Schuermann, and R. H. Mueller. No. 1,383,840; July 5; v. 288; p. 121.  
 Pipes, Machine for making concrete, R. Last. No. 1,382,202; June 21; v. 287; p. 466.  
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 Pipes of retorts, Protector for the heating-, E. E. Quinker. No. 1,383,424; July 5; v. 288; p. 35.  
 Pipes or ejecting liquids, Means for clearing service, R. R. Dezenford. No. 1,388,854; Aug. 30; v. 289; p. 808.  
 Pipes, Pouring metal in the formation of cast-iron, J. R. McWane. No. 1,374,750; Apr. 12; v. 285; p. 306.  
 Pipes, rods, &c., Machine for straightening bent, J. C. Ollard. No. 1,400,764; Dec. 20.  
 Pipes to plates, Means for securing, B. Broido. No. 1,368,783; Feb. 15; v. 283; p. 477.  
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 Pistol, Automatic, S. Oliver. No. 1,381,590; June 14; v. 287; p. 292.  
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 Pistol, Automatic, F. O. Stokke. No. 1,365,743; Jan. 18; v. 282; p. 411.  
 Pistol, Magazine-, R. N. Cox. No. 1,369,401; Feb. 22; v. 283; p. 635.  
 Pistol, Self-loading, H. Ortgies. No. 1,382,313; June 21; v. 287; p. 488.  
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 Pistol, Self-loading, H. Ortgies. No. 1,399,224; Dec. 6.  
 Pistol, Sword-hilt, F. Stuller. No. 1,384,644; July 12; v. 288; p. 338.  
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 Piston, W. M. Carlin. No. 1,391,938; Sept. 27; v. 290; p. 707.  
 Piston, E. F. Cook. No. 1,389,099; Aug. 30; v. 289; p. 857.  
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- Piston. B. L. Woodland. No. 1,381,047; June 7; v. 287; p. 139.
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- Piston. F. J. Zippler. No. 1,365,578; Jan. 4; v. 282; p. 340.
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- Piston and connecting-rod construction. R. A. Lundell. No. 1,371,701; Mar. 15; v. 284; p. 481.
- Piston and connecting-rod. Engine. A. W. Wall. No. 1,386,144; Aug. 2; v. 289; p. 86.
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- Piston and piston-ring. W. O. Keeling. No. 1,387,272; Aug. 9; v. 289; p. 330.
- Piston and plunger-rod. Combined. A. Levedahl. No. 1,380,397; June 7; v. 287; p. 14.
- Piston and ring. P. Le R. Kersey. No. 1,385,556; July 26; v. 288; p. 681.
- Piston connection. E. Hilton and A. Girodat. No. 1,386,254; Aug. 2; v. 289; p. 59.
- Piston construction. T. A. Hutsell. No. 1,378,353; May 17; v. 286; p. 485.
- Piston construction. B. L. Woodland. No. 1,373,989; Apr. 5; v. 285; p. 120.
- Piston-cooling system. A. Tacchella. No. 1,366,753; Jan. 25; v. 282; p. 654.
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- Piston engine, Double. H. Junkers. No. 1,386,062; Aug. 2; v. 289; p. 20.
- Piston for engine-cylinders. C. A. Marien. No. 1,371,320; Mar. 15; v. 284; p. 406.
- Piston for engine-cylinders. C. A. Marien. No. 1,388,279; Aug. 23; v. 289; p. 640.
- Piston for engines. C. E. Hatch. No. 1,388,338; Aug. 23; v. 289; p. 652.
- Piston for engines. A. D. Laneville. No. 1,368,167; Feb. 8; v. 283; p. 308.
- Piston for explosion-engines. F. Betker. No. 1,373,291; Mar. 29; v. 284; p. 888.
- Piston for internal-combustion engines. C. Regenbogen. No. 1,373,263; Mar. 29; v. 284; p. 882.
- Piston for internal combustion engines. S. I. Fekete. No. 1,401,899; Dec. 27.
- Piston for oxygen-compressors. E. Hill. No. 1,386,333; Aug. 2; v. 289; p. 74.
- Piston-groove-cleaning tool. J. M. Bowman. No. 1,397,312; Nov. 15.
- Piston. High-speed. J. W. Corser. No. 1,388,552; Aug. 23; v. 289; p. 694.
- Piston-inserting device. A. E. Watts. No. 1,375,744; Apr. 26; v. 285; p. 591.
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- Piston of uniflow steam-engines. H. Pilling. No. 1,385,226; July 19; v. 288; p. 538.
- Piston-packing. R. R. Hill and R. G. Law. No. 1,381,993; June 21; v. 287; p. 428.
- Piston-packing. H. C. Loudonbeck. No. 1,372,760; Mar. 29; v. 284; p. 782.
- Piston-packing. L. C. Marshall. No. 1,400,560; Dec. 20.
- Piston-packing. W. J. Schlacks. No. 1,384,097; July 12; v. 288; p. 223.
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- Piston-packing. N. S. Williams. No. 1,392,035; Sept. 27; v. 290; p. 728.
- Piston-packing disks. J. W. Kelly. No. 1,399,060; Dec. 6.
- Piston packing-ring. F. A. Stouffer and H. A. England. No. 1,369,203; Feb. 22; v. 283; p. 697.
- Piston-pin. Compensating. T. B. Teel. No. 1,365,867; Jan. 18; v. 282; p. 436.
- Piston-pin screws and lubrication of pin. Device for holding and locking. W. H. Reddig. No. 1,366,937; Feb. 1; v. 283; p. 13.
- Piston-pins, Making. D. H. Bellamore and T. I. S. Boak. No. 1,385,357; July 26; v. 288 p. 640.
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- Piston-ring. J. Arend. No. 1,391,816; Sept. 27; v. 290; p. 682.
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- Piston-ring. M. Moratta. No. 1,391,845; Sept. 27; v. 290; p. 688.
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- Piston-ring. C. White. No. 1,369,592; Feb. 22; v. 283; p. 672.
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- Piston-ring-finishing assembly. H. C. Dean and C. J. Marson. No. 1,380,136; May 31; v. 286; p. 971.
- Piston-ring gage. J. R. Louden. No. 1,381,075; June 7; v. 287; p. 144.
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- Piston-ring remover. W. Zetzman. No. 1,366,857; Jan. 25; v. 282; p. 674.
- Piston-ring-saw machine. S. Helfand. No. 1,365,101; Jan. 11; v. 282; p. 247.
- Piston-ring tool. A. F. Reed. No. 1,395,140; Oct. 25.
- Piston-ring tool. J. O. Roberts. No. 1,384,779; July 19; v. 288; p. 446.
- Piston-rings and the like, Machine for bending. L. P. Prossen. No. 1,373,095; Mar. 29; v. 284; p. 848.
- Piston-rings, Automatic peening apparatus for. A. G. Carlson. No. 1,374,877; Apr. 12; v. 285; p. 331.
- Piston-rings, Automatic rough-grinding mechanism for. J. H. Cummings. No. 1,393,668; Oct. 11.
- Piston-rings, Making. H. Stoffers. No. 1,392,027; Sept. 27; v. 290; p. 727.
- Piston-rings, Manufacture of. W. A. Oubridge. No. 1,385,345; July 19; v. 288; p. 561.
- Piston-rings, Manufacturing. R. P. Elliott. No. 1,386,997; Aug. 9; v. 289; p. 277.
- Piston-rod and making same. E. J. McIlvried. No. 1,383,002; June 28; v. 287; p. 674.
- Piston-rod connection. G. Hartwig. No. 1,401,075; Dec. 20.
- Piston-rod lubricator and nut-retainer. O. Swanson. No. 1,383,496; July 5; v. 288; p. 49.
- Piston-rod toggle for fluid-pressure motors. W. H. Keller and A. Schinkez. Nos. 1,398,327-8; Nov. 29.
- Piston-rods, Making and repairing. A. E. Zumwalt. No. 1,374,624; Apr. 12; v. 285; p. 282.
- Piston toggle mechanism. E. Duchesne. No. 1,365,667; Jan. 18; v. 282; p. 396.
- Piston, Trunk-. P. Challis. No. 1,396,161; Nov. 8.
- Piston, Trunk-. P. Challis. No. 1,396,504; Nov. 8.
- Piston-wrist-pin construction. F. F. Davis. No. 1,392,819; Oct. 4.
- Pistons and caps, Vise for holding. A. D. Alexander. No. 1,372,665; Mar. 29; v. 284; p. 763.
- Pistons and plungers, Expanding device for. S. L. McNally and J. D. Wilson. No. 1,398,873; Nov. 29.
- Pistons, Antislip device for. C. F. Bradley. No. 1,393,490; Oct. 11.
- Pistons, Apparatus for engaging engine-. L. R. Spencer. No. 1,375,237; Apr. 19; v. 285; p. 402.
- Pistons, Compression-seal for. E. J. Bullard. No. 1,388,168; Aug. 23; v. 289; p. 617.
- Pistons, Device for use in the application of piston-rings to. J. H. Hubble. No. 1,375,291; Apr. 19; v. 285; p. 473.
- Pistons in cylinders, Device for inserting. G. C. Monckmeyer. No. 1,367,622; Feb. 8; v. 283; p. 204.
- Pistons, Liquid packing means for engine-. E. A. Ford. No. 1,388,520; Aug. 23; v. 289; p. 688.
- Pistons, Making. F. A. Parkhurst. No. 1,370,553; Mar. 8; v. 284; p. 197.
- Pistons, Packing. J. O. Carrey. No. 1,375,207; Apr. 19; v. 285; p. 457.
- Pistons, Packing-ring for. T. Beaudoin. No. 1,379,513; May 24; v. 286; p. 780.
- Pit, Soaking-. B. P. Hazeltine. No. 1,380,713; June 7; v. 287; p. 74.
- Pits and mechanism for shifting same, Cover for soaking-. W. Kennedy. No. 1,398,900; Nov. 29.
- Pitch-pipe. W. Kratt. No. 1,366,735; Jan. 25; v. 282; p. 650.
- Pitch-pot. A. E. Demers. No. 1,378,528; May 17; v. 286; p. 519.
- Pitch, Process and apparatus for coking. F. Puening. No. 1,392,879; Oct. 4.
- Pitcher or the like and means for connecting its cover thereto, Sanitary. C. S. Baron. No. 1,365,145; Jan. 11; v. 282; p. 256.
- Pitcher or the like and means for connecting their covers thereto, Sanitary. C. S. Baron. No. 1,389,733; Sept. 6; v. 290; p. 35.
- Pitcher or the like, Sanitary. C. S. Baron. No. 1,389,732; Sept. 6; v. 290; p. 35.
- Pitchers, Closure for. E. W. Cooper. No. 1,376,406; May 3; v. 286; p. 6.
- Pitman connection. C. Pearson. No. 1,394,784; Oct. 25.
- Pitman construction. J. H. Okeil. No. 1,395,971; Nov. 1.
- Pitman, Dwelling. G. P. Mallory. No. 1,378,706; May 17; v. 286; p. 554.
- Pitter-knife. S. J. Dunkley. No. 1,370,097; Mar. 1; v. 284; p. 64.
- Pitter-knife. S. J. Dunkley. No. 1,374,290; Apr. 12; v. 285; p. 217.
- Pitter, Peach-. A. R. Thompson. No. 1,389,795; Sept. 6; v. 290; p. 47.
- Pitting-knife. S. J. Dunkley. No. 1,370,098; Mar. 1; v. 284; p. 65.
- Pitting-knife for pitting peaches or similar fruits. S. J. Dunkley. No. 1,370,099; Mar. 1; v. 284; p. 65.
- Pivot-bearing construction. J. H. Warner. No. 1,368,670; Feb. 15; v. 283; p. 455.
- Pivot-joint. C. O. Keagy. No. 1,387,989; Aug. 16; v. 289; p. 526.
- Pivotal mounting. A. A. Tirrill. No. 1,392,234; Sept. 27; v. 290; p. 767.
- Pivoted or swinging frames, Interlocking molding for. F. J. Plym. No. 1,364,312; Jan. 4; v. 282; p. 52.
- Placard-sustaining means. W. E. Harrison. No. 1,384,757; July 19; v. 288; p. 441.
- Plaiting device. L. L. Knauer. No. 1,386,180; Aug. 2; v. 289; p. 43.
- Plaiting-machine. J. W. Brundage. No. 1,371,853; Mar. 15; v. 284; p. 510.
- Plaiting-machine. O. and L. E. Odle. No. 1,387,658; Aug. 16; v. 289; p. 460.
- Plaiting-machine. J. Whyte. No. 1,399,231; Dec. 6.
- Planchette. N. E. Goldberg. No. 1,366,174; Jan. 18; v. 282; p. 495.
- Plane. J. M. Dodenhof. No. 1,393,991; Oct. 18.
- Plane. O. Elias. No. 1,387,969; Aug. 16; v. 289; p. 522.
- Plane. E. J. Sweeney. No. 1,400,330; Dec. 13.
- Plane. J. Szako. No. 1,366,297; Jan. 18; v. 282; p. 519.
- Plane, Carpenter's adjustable fillister or rabbet. J. E. Meed. No. 1,388,281; Aug. 23; v. 289; p. 641.
- Planer. G. H. Benzon, Jr. No. 1,380,699; June 7; v. 287; p. 71.
- Planer and system of motor control therefor. H. L. Blood. No. 1,370,726; Mar. 8; v. 284; p. 230.
- Planer and system of motor control therefor. H. L. Blood. No. 1,389,342; Aug. 30; v. 289; p. 905.
- Planer and system of motor control therefor. H. L. Blood. No. 1,397,396; Nov. 15.
- Planer, Circular. T. L. Harkins. No. 1,381,550; June 14; v. 287; p. 285.
- Planer-clamp. C. Schwarz. No. 1,372,459; Mar. 22; v. 284; p. 682.
- Planer or similar machines, Attachment for. R. H. Davis. No. 1,388,853; Aug. 30; v. 289; p. 807.
- Planer-platen guideway and bearing. C. M. Conradson. No. 1,367,802; Feb. 8; v. 283; p. 239.
- Planes, Frame for. J. Knowles. No. 1,390,565; Sept. 13; v. 290; p. 293.
- Planers, Carriage and swivel cutting-head for. C. B. Rearick. No. 1,394,443; Oct. 18.
- Planers, Driving-gear for metal. F. E. Cardullo. No. 1,384,382; July 12; v. 288; p. 282.
- Planers, Power rapid-traverse and feed motion for. A. Trosch. No. 1,369,501; Feb. 22; v. 283; p. 654.
- Planers, Safety device for buzz-. O. Mazurette. No. 1,371,921; Mar. 15; v. 284; p. 522.
- Planers, Tool-lifting mechanism for. G. E. Greenleaf. No. 1,372,286; Mar. 22; v. 284; p. 650.
- Planing machine, Stone-. H. Koromogawa. No. 1,371,311; Mar. 15; v. 284; p. 404.
- Planing-machines, Driving and control mechanism, particularly for. F. Newton. No. 1,379,833; May 31; v. 286; p. 914.
- Planing-machines, &c., Rotatable tool-carrier for. J. W. Oliver. No. 1,397,014; Nov. 15.
- Planimeter-guide. J. J. Kerr. No. 1,386,876; Aug. 9; v. 289; p. 253.
- Planing-clamp. P. H. Fluhr. No. 1,395,566; Nov. 1.
- Planographic plates, Machine for graining. W. H. Long. No. 1,373,140; Mar. 29; v. 284; p. 858.
- Plant-chopping machine. W. Adams. No. 1,389,570; Sept. 6; v. 290; p. 3.
- Plant for the treatment of garbage, refuse, offal, and dead animals, Portable. H. Lammertz. (Reissue.) No. 15,059; Mar. 8; v. 284; p. 323.
- Plant, Hydraulic. P. ten B. Cate. No. 1,396,994; Nov. 15.
- Plant-protector. R. B. Frye. No. 1,375,583; Apr. 19; v. 285; p. 528.
- Plant-setting machine. W. H. P. Gould, Jr. No. 1,376,933; May 3; v. 286; p. 105.
- Plant-stand. D. F. Loudon. No. 1,371,796; Mar. 15; v. 284; p. 499.
- Plant-stand. D. F. Loudon. No. 1,396,445; Nov. 8.
- Plant systems, Apparatus for central-heating-. H. J. Babcock. No. 1,368,013; Feb. 8; v. 283; p. 278.
- Plant topper and cultivator. L. G. Hardy. No. 1,373,723; Apr. 5; v. 285; p. 66.
- Plants, Apparatus for decorticating fibrous. F. O'Neill, Jr. No. 1,393,819; Oct. 18.
- Plants, Enhancing growth of. C. F. Eckart. No. 1,372,997; Mar. 29; v. 284; p. 830.
- Plants, Enhancing the growth of. C. F. Eckart. No. 1,377,566; May 10; v. 286; p. 282.
- Plants, Method and means of enhancing the growth of. C. F. Eckart. No. 1,372,998; Mar. 29; v. 284; p. 830.
- Plants, Method and means for enhancing the growth of. C. F. Eckart. No. 1,382,069; June 21; v. 287; p. 442.
- Plants, Method and means for enhancing the growth of. C. F. Eckart. (Reissue.) No. 15,231; Nov. 22.
- Plants, System of control for intermittent-absorption refrigerating. D. D. Huyett and A. L. Register. No. 1,376,884; May 3; v. 286; p. 96.
- Planter. J. Blue. No. 1,374,632; Apr. 12; v. 285; p. 284.
- Planter. J. Blue. No. 1,393,744; Oct. 18.
- Planter. W. C. Catlett. No. 1,395,798; Nov. 1.
- Planter. E. M. Cole. No. 1,398,066; Nov. 22.
- Planter. E. E. Englund. No. 1,377,766; May 10; v. 286; p. 321.
- Planter. R. S. Gehr. Nos. 1,400,738-40; Dec. 20.
- Planter. W. J. Hall. No. 1,396,683; Nov. 8.
- Planter. A. A. Howard. No. 1,398,190; Nov. 22.
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- Planter. G. H. Wright. No. 1,385,937; July 26; v. 288; p. 758.
- Planter and fertilizer-distributor. G. D. Powell. No. 1,390,383; Sept. 13; v. 290; p. 257.
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- Planter, Cane-. E. H. Hipple. No. 1,386,407; Aug. 2; v. 289; p. 87.
- Planter, Corn-. E. A. Golle. No. 1,398,428; Nov. 29.
- Planter, Duplex. E. M. Cole. No. 1,388,519; Aug. 23; v. 289; p. 688.
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- Planter, Potato-. J. Brykowiez. No. 1,364,914; Jan. 11; v. 282; p. 211.
- Planter, Potato-. N. Krupa. No. 1,365,507; Jan. 11; v. 282; p. 326.
- Planter, Seed-beet. J. D. Samuels and H. E. Bates. No. 1,396,784; Nov. 15.
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- Planters, Check-head for. P. H. Baxter. No. 1,390,748; Sept. 13; v. 290; p. 330.
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- Planters, Marker for. R. H. Atz. No. 1,372,637; Mar. 22; v. 284; p. 717.
- Planters, Marker for corn-. S. Watson. No. 1,399,677; Dec. 6.
- Planters, Seed-dispenser-driving mechanism for corn. E. W. Paulson. No. 1,376,352; Apr. 26; v. 285; p. 708.
- Planters, Valve and trip-lock for. R. L. Ford. No. 1,382,771; June 28; v. 287; p. 630.
- Planting-box. W. H. Bussey. No. 1,390,337; Sept. 13; v. 290; p. 248.
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- Plaques, Making ornamental. M. J. McLaughlin. No. 1,382,925; June 28; v. 287; p. 659.
- Plaster-board. C. R. Birdsey. No. 1,383,254; June 28; v. 287; p. 721.
- Plaster-board. C. R. Birdsey. No. 1,384,298; July 12; v. 288; p. 265.
- Plaster-board. C. R. Birdsey. Nos. 1,395,031-2; Oct. 25.
- Plaster-board. T. H. A. Howley and J. J. Dooley. No. 1,379,444; May 24; v. 286; p. 766.
- Plaster-board. O. L. Routt and G. C. McConnell. No. 1,382,550; June 21; v. 287; p. 534.
- Plaster-board. C. W. Utzman. No. 1,383,249; June 28; v. 287; p. 720.
- Plaster-board, Apparatus for making. M. K. Armstrong. No. 1,367,292; Feb. 1; v. 283; p. 81.
- Plaster-board, Drier for. D. E. Roberts. No. 1,399,276; Dec. 6.
- Plaster-board-drying apparatus. G. H. and E. A. Herzberg. No. 1,366,882; Jan. 25; v. 282; p. 680.
- Plaster-board, Machine and method for making. C. R. Birdsey. No. 1,383,255; June 28; v. 287; p. 721.
- Plaster-board, Process and means for making. J. Schumacher. No. 1,379,940; May 31; v. 286; p. 934.
- Plaster-board support. E. E. Fletcher. No. 1,367,688; Feb. 8; v. 283; p. 217.
- Plaster-ground. A. Oliver. No. 1,385,466; July 26; v. 288; p. 663.
- Plaster-of-Paris cutter. G. H. Desrochers. No. 1,368,244; Feb. 15; v. 283; p. 371.
- Plastic. L. E. Barton and H. A. Gardner. No. 1,365,882; Jan. 18; v. 282; p. 439.
- Plastic articles, Method of and apparatus for molding. E. E. Novotny. No. 1,377,517; May 10; v. 286; p. 274.
- Plastic block structure. W. L. Cutler. No. 1,382,824; June 28; v. 287; p. 640.
- Plastic composition. M. K. Armstrong. No. 1,384,037; July 12; v. 288; p. 211.
- Plastic composition. C. Noll. No. 1,393,814; Oct. 18.
- Plastic composition. E. L. Sharpneck. No. 1,379,052; May 24; v. 286; p. 692.
- Plastic composition. E. L. Sharpneck. No. 1,379,053; May 24; v. 286; p. 692.
- Plastic composition. C. E. Swett. No. 1,365,607; Jan. 11; v. 282; p. 345.
- Plastic composition. H. P. Willis. No. 1,372,467; Mar. 22; v. 284; p. 684.
- Plastic composition and making same. R. G. Erwin. No. 1,370,637; Mar. 8; v. 284; p. 213.
- Plastic composition and making same. C. Loeffelhardt. No. 1,368,949; Feb. 15; v. 283; p. 508.
- Plastic composition and making same. W. V. Watson. No. 1,398,613; Nov. 29.
- Plastic composition and producing same. G. M. Formby. No. 1,376,523; May 3; v. 286; p. 27.
- Plastic composition, Flexible. A. L. Clapp. No. 1,379,590; May 24; v. 286; p. 794.
- Plastic composition for bricks. J. Smith. No. 1,385,757; July 26; v. 288; p. 723.
- Plastic composition or cement known as plastic enamel, Non-conducting. L. B. Wilson. No. 1,389,084; Aug. 30; v. 289; p. 854.
- Plastic compound and process. W. G. Lindsay. No. 1,388,472; Aug. 23; v. 289; p. 679.
- Plastic masonry, Implement for forming grooves in. J. D. Hendricks. No. 1,383,301; July 5; v. 288; p. 9.
- Plastic mass. W. Mooser-Schless. No. 1,367,886; Feb. 8; v. 283; p. 255.
- Plastic material, Die for making articles of. A. W. Gates. No. 1,393,014; Oct. 11.
- Plastic-material furnace. C. G. Lacy. No. 1,392,181; Sept. 27; v. 290; p. 756.
- Plastic material, Key-base for. J. O. Fowler. No. 1,390,774; Sept. 13; v. 290; p. 336.
- Plastic material, Method of and means for forming articles of. J. H. Morgan. No. 1,376,564; May 3; v. 286; p. 35.
- Plastic material, Rolling-machine for working. W. C. Bowden. No. 1,380,632; June 7; v. 287; p. 58.
- Plastic materials, Apparatus for molding articles from. R. D. Pike. No. 1,394,786; Oct. 25.
- Plastic materials, Insert for. W. M. Goldsmith. No. 1,394,002; Oct. 18.
- Plastic materials, Machine for cleaning. A. Suehy, Jr. (Reissue). No. 15,060; Mar. 8; v. 284; p. 323.
- Plastic materials, Machine for cutting. D. Kupfer. No. 1,380,723; June 7; v. 287; p. 76.
- Plastic materials, Method and apparatus for making varicolored articles from. E. M. Sigvart. No. 1,372,164; Mar. 22; v. 284; p. 625.
- Plastic molding material, Preparing. O. Gerlach and C. B. Lihme. No. 1,390,435; Sept. 13; v. 290; p. 267.
- Plastic products, Manufacture of. C. E. H. Leroy and F. M. J. A. Claireaux. No. 1,394,746; Oct. 25.
- Plastics, Metal bead for. W. M. Goldsmith. No. 1,379,862; May 31; v. 286; p. 919.
- Plate and templet, Combined foundation-. P. Mueller and A. C. Schuermann. No. 1,394,755; Oct. 25.
- Plate-attaching means. E. H. Laws. No. 1,394,029; Oct. 18.
- Plate attachment, Name-. O. Nelson. No. 1,390,637; Sept. 13; v. 290; p. 309.
- Plate, Center-. A. S. Rowan. No. 1,364,322; Jan. 4; v. 282; p. 54.
- Plate cooling and finishing machine. O. Roesen. No. 1,389,844; Sept. 6; v. 290; p. 57.
- Plate cooling and finishing, Method and apparatus for. R. T. Johnston. No. 1,389,361; Aug. 30; v. 289; p. 910.
- Plate disk wheel. W. E. Williams. No. 1,378,301; May 17; v. 286; p. 476.
- Plate-feeding apparatus. H. S. Thomas, W. R. Davies, and R. B. Thomas. No. 1,384,646; July 12; v. 288; p. 388.
- Plate finishing and cooling machine. R. T. Johnston. No. 1,389,761; Sept. 6; v. 290; p. 40.
- Plate-finishing machine. W. M. Wood and H. Reynolds. No. 1,385,416; July 26; v. 288; p. 652.
- Plate holder, License. E. S. Ard. No. 1,371,837; Mar. 15; v. 284; p. 507.
- Plate-holders, Indicator for. A. J. Vigneault. No. 1,384,363; July 12; v. 288; p. 278.
- Plate, Indicating-. N. E. McMahon. No. 1,384,912; July 19; v. 288; p. 473.
- Plate, Interchangeable-initial. W. W. Watters. No. 1,387,217; Aug. 9; v. 289; p. 319.
- Plate, License. J. Young. No. 1,381,688; June 14; v. 287; p. 311.
- Plate-lifter. T. Fisher. No. 1,375,580; Apr. 19; v. 285; p. 527.
- Plate-printing press. M. Lazarus and W. B. Davies. No. 1,389,251; Aug. 30; v. 289; p. 887.
- Plate-puller. A. J. Abernathy. No. 1,400,783; Dec. 20.
- Plate, Storage-battery. B. Ford. No. 1,376,929; May 3; v. 286; p. 105.
- Plate-stripping machine, Tube-. W. T. Sherman. No. 1,370,610; Mar. 8; v. 284; p. 207.
- Plate, Tie-. J. Lundie and G. W. Whiteman. No. 1,381,575; June 14; v. 287; p. 290.
- Plate-web wheel. W. E. Williams. No. 1,398,614; Nov. 29.
- Plates and films, Identification of. J. Fried. No. 1,396,415; Nov. 8.
- Plates and the like during washing up and rinsing. Apparatus for holding. C. H. V. Abrahamsen. No. 1,379,379; May 24; v. 286; p. 755.
- Plates, Apparatus for cleaning and polishing metal-coated. H. S. Thomas, W. R. Davies, and R. B. Thomas. No. 1,384,647; July 12; v. 288; p. 338.
- Plates, Device for attaching name-. E. Laws. No. 1,371,696; Mar. 15; v. 284; p. 481.
- Plates, Device for bending. H. G. Tregillus. No. 1,383,882; July 5; v. 288; p. 129.
- Plates, Feeding mechanism for. T. B. Hughes, W. J. Davis, and D. D. Hughes. No. 1,383,304; July 5; v. 288; p. 9.
- Plates, Forming composite. J. R. McClain. No. 1,365,330; Jan. 11; v. 282; p. 291.
- Plates, Holder for license-. C. M. Bolich. No. 1,384,229; July 12; v. 288; p. 250.
- Plates, Joining. T. J. Shea. No. 1,401,448; Dec. 27.



- Plates, Making floor and ceiling. W. H. Cadwell. No. 1,365,889; Jan. 18; v. 282; p. 440.
- Plates, Making grid. P. B. Rabe. No. 1,369,353; Feb. 22; v. 283; p. 626.
- Plating. C. H. Chandler. No. 1,373,488; Apr. 5; v. 285; p. 22.
- Plating-bath. H. H. Hanson and A. C. Walker. No. 1,380,142; May 31; v. 286; p. 972.
- Platen-press. M. Rockstroh. No. 1,401,818; Dec. 27.
- Platen printing-press. O. John. No. 1,399,431; Dec. 6.
- Platen-renewer. J. T. Hacking. No. 1,373,559; Apr. 5; v. 285; p. 35.
- Platform. W. Stuebing, Jr. No. 1,374,613; Apr. 12; v. 285; p. 280.
- Platform end sill. W. Voss. No. 1,388,535; Aug. 23; v. 289; p. 691.
- Player instruments, Automatic music-sheet tracker for. J. T. Rydberg. No. 1,373,100; Mar. 29; v. 284; p. 849.
- Players, Expression device for automatic. F. J. Clark. No. 1,384,010; July 5; v. 288; p. 156.
- Plier-type wrench. H. M. Swedilius. No. 1,373,683; Apr. 5; v. 285; p. 59.
- Plier-wrench. A. S. E. Metcalf. No. 1,371,387; Mar. 15; v. 284; p. 420.
- Pliers. R. G. Adams. No. 1,388,398; Aug. 23; v. 289; p. 665.
- Pliers. G. L. Coleman. No. 1,372,278; Mar. 22; v. 284; p. 648.
- Pliers. A. Earnhart. No. 1,367,362; Feb. 1; v. 283; p. 95.
- Pliers. E. M. Graham. No. 1,373,555; Apr. 5; v. 285; p. 34.
- Pliers. E. M. Loftus. No. 1,398,904; Nov. 29.
- Pliers. A. Mae. No. 1,401,546; Dec. 27.
- Pliers. J. L. Mayhew. No. 1,396,863; Nov. 15.
- Pliers. R. F. Metzger. No. 1,389,371; Aug. 30; v. 289; p. 911.
- Pliers. B. Nortwed. No. 1,367,711; Feb. 8; v. 283; p. 222.
- Pliers. K. Shaner. No. 1,379,315; May 24; v. 286; p. 742.
- Pliers, Adjustable wrench-. J. A. Roberts. No. 1,386,365; Aug. 2; v. 289; p. 79.
- Pliers and end wrench. J. A. Schlehr. No. 1,393,399; Oct. 11.
- Pliers, Attachment for. O. M. Kusisto. No. 1,369,676; Feb. 22; v. 283; p. 689.
- Pliers, Combination-. A. A. Pannier. No. 1,364,137; Jan. 4; v. 282; p. 17.
- Pliers, Dental. W. C. Smith. No. 1,386,436; Aug. 2; v. 289; p. 93.
- Pliers, Punching and cutting. C. W. Shaul. No. 1,381,024; June 7; v. 287; p. 135.
- Pliers, Support for sewing-. J. and S. Ftacek. No. 1,372,499; Mar. 22; v. 284; p. 690.
- Pliers, Watchmaker's. E. M. Bary. No. 1,397,614; Nov. 22.
- Plies or the like, Apparatus for pulling. J. A. Purvis and H. A. Sessions. No. 1,372,545; Mar. 22; v. 284; p. 699.
- Plow. A. Agneni. No. 1,371,064; Mar. 8; v. 284; p. 294.
- Plow. R. J. Altgelt. No. 1,377,047; May 3; v. 286; p. 127.
- Plow. R. J. Altgelt. No. 1,377,048; May 3; v. 286; p. 128.
- Plow. R. J. Altgelt. No. 1,377,050; May 3; v. 286; p. 128.
- Plow. R. J. Altgelt. Nos. 1,394,524-5; Oct. 25.
- Plow. F. Aloga y Larraide. No. 1,388,233; Aug. 23; v. 289; p. 630.
- Plow. U. E. Cook. No. 1,388,142; Aug. 16; v. 289; p. 555.
- Plow. H. M. Derrick. No. 1,396,816; Nov. 15.
- Plow. J. M. Doernier. No. 1,395,179; Oct. 25.
- Plow. S. Domanski. No. 1,383,609; July 5; v. 288; p. 73.
- Plow. J. Fairfield. No. 1,392,133; Sept. 27; v. 290; p. 747.
- Plow. D. W. Gage. No. 1,400,429; Dec. 13.
- Plow. J. F. Hampson. No. 1,392,685; Oct. 4.
- Plow. R. B. Hartsough. No. 1,398,075; Nov. 22.
- Plow. E. M. Heylman. No. 1,386,866; Aug. 9; v. 289; p. 251.
- Plow. E. M. Heylman. No. 1,386,868; Aug. 9; v. 289; p. 251.
- Plow. E. M. Heylman. No. 1,386,869; Aug. 9; v. 289; p. 252.
- Plow. E. M. Heylman and A. D. Gallagher. No. 1,386,870; Aug. 9; v. 289; p. 252.
- Plow. R. M. Iverson. No. 1,390,615; Sept. 13; v. 290; p. 304.
- Plow. B. W. Jackson. No. 1,369,745; Feb. 22; v. 283; p. 703.
- Plow. V. M. Mays. No. 1,397,841; Nov. 22.
- Plow. J. E. Nail and T. P. Henry. No. 1,394,510; Oct. 18.
- Plow. C. Petroff. No. 1,369,464; Feb. 22; v. 283; p. 647.
- Plow. H. M. Sweet. No. 1,373,537; Apr. 5; v. 285; p. 31.
- Plow. C. C. Sweeting. No. 1,391,593; Sept. 20; v. 290; p. 564.
- Plow. W. R. Thomas. No. 1,371,130; Mar. 8; v. 284; p. 306.
- Plow. L. J. Westbrook. No. 1,401,020; Dec. 20.
- Plow. M. Zavor. No. 1,368,095; Feb. 8; v. 283; p. 277.
- Plow and other agricultural machine, Self-propelled. T. J. E. Roberts and H. G. Belgrove. No. 1,372,454; Mar. 22; v. 284; p. 681.
- Plow and other agricultural machine, Self-propelled. T. J. E. Roberts and H. G. Belgrove. No. 1,372,455; Mar. 22; v. 284; p. 681.
- Plow and pulverizer. A. P. Merrill. No. 1,392,845; Oct. 4.
- Plow and pulverizer. P. J. Tate. No. 1,395,370; Nov. 1.
- Plow and subsoiler, Disk. A. P. McKay. No. 1,397,434; Nov. 15.
- Plow attachment. L. Cleaton. No. 1,401,877; Dec. 27.
- Plow attachment. W. R. Schwartz. No. 1,374,033; Apr. 5; v. 285; p. 127.
- Plow-beam. F. A. Leas. No. 1,372,357; Mar. 22; v. 284; p. 663.
- Plow-beam brace. C. E. Peterson. No. 1,392,444; Oct. 4.
- Plow, Cantaliver-. M. J. Corrigan. No. 1,384,992; July 19; v. 288; p. 490.
- Plow, Disk. A. C. Lindgren. No. 1,388,962; Aug. 30; v. 289; p. 820.
- Plow, Disk. C. W. Michael. No. 1,395,050; Oct. 25.
- Plow, Disk. S. Yuasa. No. 1,370,079; Mar. 1; v. 284; p. 61.
- Plow, Disk or road. D. B. Thompson. No. 1,398,164; Nov. 22.
- Plow, Double-moldboard. M. Schultze. No. 1,384,924; July 19; v. 288; p. 475.
- Plow-edge-bending machine, Detachable-. P. A. Nordquist. No. 1,374,094; Apr. 5; v. 285; p. 139.
- Plow, Engine gang-. W. L. Paul. No. 1,377,025; May 3; v. 286; p. 123.
- Plow, Gang-. J. B. Bartholomew. No. 1,379,673; May 31; v. 286; p. 884.
- Plow, Gang-. J. B. Bartholomew. No. 1,395,216; Oct. 25.
- Plow, Gang-. J. A. Bergren. No. 1,389,479; Aug. 30; v. 289; p. 932.
- Plow, Gang-. K. Lindsey. No. 1,375,054; Apr. 19; v. 285; p. 428.
- Plow, Gang-. F. B. Niesz. No. 1,380,581; June 7; v. 287; p. 48.
- Plow, Gang-. E. J. Rimple and J. W. Morgan. No. 1,401,496; Dec. 27.
- Plow, Gang-. C. G. Strandlund. No. 1,376,787; May 3; v. 286; p. 77.
- Plow, Gang-. I. A. Weaver. No. 1,369,583; Feb. 22; v. 283; p. 671.
- Plow-lift. H. G. and R. I. Knapp. R. G. Fleming. No. 1,364,439; Jan. 4; v. 282; p. 76.
- Plow-lift. A. Krieg. No. 1,367,607; Feb. 8; v. 283; p. 201.
- Plow-lift. H. S. Smith. No. 1,394,767; Oct. 25.
- Plow-lifting mechanism. A. Mitchell. No. 1,392,196; Sept. 27; v. 290; p. 760.
- Plow, Lister-. S. K. Dennis. No. 1,373,413; Apr. 5; v. 285; p. 6.
- Plow, Mechanically-propelled. F. M. Waller. No. 1,383,251; June 28; v. 287; p. 721.
- Plow, Motor-. P. L. Champonnois. No. 1,391,366; Sept. 20; v. 290; p. 518.
- Plow, Motor-. H. Rüdy. No. 1,397,146; Nov. 15.
- Plow, Motor-. E. Wendeler. No. 1,385,960; July 26; v. 288; p. 762.
- Plow, Multiple. M. Mondriuk. No. 1,395,447; Nov. 1.
- Plow or cultivator attachment. J. T. Beasley. No. 1,369,954; Mar. 1; v. 284; p. 38.
- Plow or cultivator, Motor. P. H. Hurtig and C. H. Menton. No. 1,398,859; Nov. 29.
- Plow-point. S. Apgar. No. 1,398,762; Nov. 29.
- Plow-point pattern-plate. E. M. Wright. No. 1,365,214; Jan. 11; v. 282; p. 269.
- Plow, Power-lift. A. C. Lindgren and R. B. Johnston. No. 1,394,914; Oct. 25.
- Plow, Power-lift. H. R. Traphagen. No. 1,396,793; Nov. 15.
- Plow, Power-lift. L. E. Waterman. No. 1,384,792; July 19; v. 288; p. 448.
- Plow, Power-lift disk. A. C. Lindgren. No. 1,387,500; Aug. 16; v. 289; p. 428.
- Plow, Power-operated. C. W. Mott. No. 1,394,930; Oct. 25.
- Plow-releasing device. B. C. F. Pritzel. No. 1,373,971; Apr. 5; v. 285; p. 116.
- Plow, Reversible. C. B. Culbertson. No. 1,367,127; Feb. 1; v. 283; p. 49.
- Plow, Reversible. F. Pirc. No. 1,400,768; Dec. 20.
- Plow, Reversible. S. Posavac. No. 1,386,363; Aug. 2; v. 289; p. 79.
- Plow, Rotary. H. J. Bennett. No. 1,377,549; May 10; v. 286; p. 279.
- Plow, Rotary. R. E. Billingsley. No. 1,389,484; Aug. 30; v. 289; p. 933.
- Plow safety-hitch. A. B. Hulsebos and G. Den Besten. No. 1,391,058; Sept. 20; v. 290; p. 456.
- Plow, Sidehill-. G. Carpenter. No. 1,375,626; Apr. 19; v. 285; p. 536.
- Plow, Snow-. W. L. Ward. No. 1,378,502; May 17; v. 286; p. 619.
- Plow, Snow-. L. A. Worth. No. 1,387,576; Aug. 16; v. 289; p. 444.



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- Plow, Stump-jump. J. H. Warner. No. 1,381,040; June 7; v. 287; p. 138.
- Plow, Sulky-. S. S. Spire. No. 1,387,810; Aug. 16; v. 289; p. 491.
- Plow, Tractor. W. W. Cameron. No. 1,377,057; May 3; v. 286; p. 129.
- Plow, Tractor-. J. C. Dittbrenner. No. 1,378,842; May 24; v. 286; p. 653.
- Plow, Tractor-. H. J. Heider. No. 1,373,613; Apr. 5; v. 285; p. 45.
- Plow, Tractor-. H. J. Heider. No. 1,375,457; Apr. 19; v. 285; p. 504.
- Plow, Tractor-. J. Hist. No. 1,399,301; Dec. 6.
- Plow, Tractor-. C. Owens. No. 1,396,049; Nov. 8.
- Plow, Tractor-. O. L. Plettner and W. H. Lowe. No. 1,378,196; May 17; v. 286; p. 456.
- Plow, Tractor-. A. W. Reynolds. No. 1,381,662; June 14; v. 287; p. 305.
- Plow, Tractor-drawn. A. D. Gallagher. No. 1,376,766; May 3; v. 286; p. 71.
- Plow, Tractor gang-. W. H. Nichols. No. 1,390,578; Sept. 13; v. 290; p. 296.
- Plow, Tractor rotary. S. T. Ingram. No. 1,374,739; Apr. 12; v. 285; p. 304.
- Plow, Trench-guide relisting-. S. K. Dennis. No. 1,366,561; Jan. 25; v. 282; p. 616.
- Plow, Turning shovel-. P. Hendel. No. 1,401,779; Dec. 27.
- Plow, Wheeled. R. J. Altgelt. No. 1,377,049; May 3; v. 286; p. 128.
- Plow-wheels, Axle-box or wheel-hub box and lubricating-cup for. J. Delano. No. 1,364,484; Jan. 4; v. 282; p. 85.
- Plows, Adjusting means for. A. D. Gallagher. No. 1,377,064; May 3; v. 286; p. 131.
- Plows, Adjusting mechanism for motor-. A. Mitchell. No. 1,368,643; Feb. 15; v. 283; p. 449.
- Plows and other tools, Mount for. E. Dunlap. No. 1,375,577; Apr. 19; v. 285; p. 57.
- Plows and the like, Safety-coupling for motor-. A. J. Forbes. No. 1,364,628; Jan. 4; v. 282; p. 112.
- Plows, Clevis attachment for. F. W. Wolter. No. 1,390,240; Sept. 6; v. 290; p. 136.
- Plows, Device for raising a gang of. J. F. Steward. No. 1,388,978; Aug. 30; v. 289; p. 833.
- Plows, Draft attachment for stump-jump. J. H. Warner. No. 1,381,039; June 7; v. 287; p. 138.
- Plows, Draft for tractor-. L. M. Hoftrup. No. 1,386,336; Aug. 2; v. 289; p. 75.
- Plows, Hitching and coupling means for tractor-. J. J. Natterstad. No. 1,369,980; Mar. 1; v. 284; p. 33.
- Plows, Power-lift for. E. J. Rimple and J. W. Morgan. No. 1,398,494; Nov. 29.
- Plows, Power-lift for. N. Sanders. No. 1,386,955; Aug. 9; v. 289; p. 269.
- Plows, Power-lift mechanism for. E. M. Heylman, L. V. Kingsbury, and L. W. Stickley. No. 1,386,867; Aug. 9; v. 289; p. 251.
- Plows, Reversible disk attachment for corn-. C. W. Smith. No. 1,376,232; Apr. 26; v. 285; p. 684.
- Plows, Shock-absorbing device for stump-jump. J. H. Warner. No. 1,381,041; June 7; v. 287; p. 138.
- Plows, Steering and coupling device for. E. T. Miller. No. 1,391,963; Sept. 27; v. 290; p. 712.
- Plowing device. J. Lachance. No. 1,376,147; Apr. 26; v. 285; p. 669.
- Plowing-machine. C. P. Bäckström. No. 1,366,238; Jan. 18; v. 282; p. 508.
- Plowing-machine. R. Ramos and A. de Cárdenas. No. 1,367,755; Feb. 8; v. 283; p. 230.
- Plowshare, Detachable. A. S. Krotz. No. 1,388,652; Aug. 23; v. 289; p. 713.
- Plowshare edge, Detachable. P. A. Nordquist. No. 1,401,432; Dec. 27.
- Plowshare, Rotary. B. E. Billingsley. No. 1,389,483; Aug. 30; v. 289; p. 933.
- Plug. K. W. Hessler and W. J. Barrett. No. 1,371,168; Mar. 8; v. 284; p. 313.
- Plug, Attachment-. B. J. Grigsby. No. 1,398,228; Nov. 29.
- Plug, Casing-. R. C. Baker. No. 1,392,619; Oct. 4.
- Plug, Electrical attachment-. A. E. Hellerstedt. No. 1,372,288; Mar. 22; v. 284; p. 650.
- Plug, Fusible. B. P. Terrell. No. 1,376,481; May 3; v. 286; p. 20.
- Plug-gage. A. A. Martell. No. 1,393,233; Oct. 11.
- Plug-micrometer. L. G. Iliff. No. 1,396,117; Nov. 8.
- Plug receptacle, Attachment-. F. V. Burton. No. 1,365,152; Jan. 11; v. 282; p. 257.
- Plug, Safety without-. S. Otis. No. 1,396,659; Nov. 8.
- Plug-socket. G. Scoppola. No. 1,373,838; Apr. 5; v. 285; p. 89.
- Plug, Switchboard-. A. H. Weiss. No. 1,401,217; Dec. 27.
- Plug, Swivel attachment-. P. S. McLean. No. 1,398,077; Nov. 22.
- Plug, Wall-. A. Ten Bosch. No. 1,387,814; Aug. 16; v. 289; p. 492.
- Plugs and manufacture thereof, Contact-pin for connecting-. O. Stalhane and O. O. Kring. No. 1,376,735; May 3; v. 286; p. 67.
- Plugs and sockets, Switch and contact mechanism for electric-current-regulating. A. Papini. No. 1,383,011; June 28; v. 287; p. 675.
- Plugs, Screw-shell contact-mounting for attachment-. E. H. Freeman. No. 1,373,127; Mar. 29; v. 284; p. 855.
- Plumb and level, Adjustable straightedge. P. T. Fagrie. No. 1,398,183; Nov. 22.
- Plumb-bob. R. N. Easterberg and H. J. Volkwein. No. 1,369,523; Feb. 22; v. 283; p. 653.
- Plumb-level and protractor. H. L. Hunter. No. 1,400,069; Dec. 13.
- Plumb-level, Combination. J. H. Osborn. No. 1,380,243; May 31; v. 286; p. 991.
- Plumb or level device. J. C. Knapp. No. 1,373,336; Mar. 29; v. 284; p. 897.
- Plumber's ferret. C. W. Sheatley. No. 1,377,933; May 10; v. 286; p. 346.
- Plumber's table and vise support. G. L. Hargey. No. 1,382,505; June 21; v. 287; p. 525.
- Plumbing connection, Sanitary. J. Bropson. No. 1,370,874; Mar. 8; v. 284; p. 258.
- Plumbing-fixture, Disappearing. H. A. Simpson. No. 1,367,896; Feb. 8; v. 283; p. 257.
- Plunger, Shifter-fork. M. C. Frins. No. 1,378,222; May 17; v. 286; p. 461.
- Plunging, Electric heating device for. F. Frel. No. 1,401,686; Dec. 27.
- Plywood, Making. A. N. Hood, J. T. Nightingale, F. R. Leland, and T. W. Dike. No. 1,369,743; Feb. 22; v. 283; p. 703.
- Pneumatic action. E. H. Dodds. No. 1,388,413; Aug. 23; v. 289; p. 668.
- Pneumatic action. J. O. Schwarz and G. Bjorklund. No. 1,398,469; Nov. 29.
- Pneumatic action. W. J. Wodraska. No. 1,396,492; Nov. 8.
- Pneumatic-action unit. S. Battner. No. 1,401,857; Dec. 27.
- Pneumatic alarm. S. Kushner. No. 1,393,382; Oct. 11.
- Pneumatic and hydraulic clamp. B. P. Cohen. No. 1,400,801; Dec. 20.
- Pneumatic casing, Combination. J. Velcio. No. 1,377,375; May 10; v. 286; p. 247.
- Pneumatic-despatch-tube apparatus. J. G. Maclaren. No. 1,366,013; Jan. 18; v. 282; p. 464.
- Pneumatic-despatch-tube apparatus. J. G. Maclaren. No. 1,367,163; Feb. 1; v. 283; p. 56.
- Pneumatic-despatch-tube carrier. F. R. Taisey. No. 1,393,466; Oct. 11.
- Pneumatic drill. C. Jackson. No. 1,376,545; May 3; v. 286; p. 31.
- Pneumatic flotation-cell and method. J. M. Callow. No. 1,366,766; Jan. 25; v. 282; p. 657.
- Pneumatic jack. L. A. Fleury. No. 1,374,295; Apr. 12; v. 285; p. 218.
- Pneumatic lock, Automatic. H. Pierce. No. 1,397,933; Nov. 22.
- Pneumatic motor. J. F. Buhr. No. 1,377,745; May 10; v. 286; p. 716.
- Pneumatic or like roller. A. Seamour-Jones. No. 1,365,606; Jan. 11; v. 282; p. 349.
- Pneumatic pick-up. H. S. Hornbeck. No. 1,399,483; Dec. 6.
- Pneumatic spring. A. P. Bourne. No. 1,373,711; Apr. 5; v. 285; p. 64.
- Pneumatic transmission. J. W. Struck. No. 1,399,588; Dec. 6.
- Pneumatic vehicle-wheel. A. W. Eckhardt. No. 1,393,514; Oct. 11.
- Pneumatic wheel. J. W. Ricketts. No. 1,391,407; Sept. 20; v. 290; p. 527.
- Pneumothermic apparatus. A. S. Sales. No. 1,380,841; June 7; v. 287; p. 99.
- Pocket-billiard table. T. R. Treiber. No. 1,367,440; Feb. 1; v. 283; p. 111.
- Pocket-billiard table. T. R. Treiber. No. 1,367,441; Feb. 1; v. 283; p. 111.
- Pocket, Expanding filing-. A. Bushnell, Jr. No. 1,373,222; Mar. 29; v. 284; p. 874.
- Pocket-flap. C. M. McCormick. No. 1,376,821; May 3; v. 286; p. 84.
- Pocket, Garment-. V. Farraro. No. 1,372,067; Mar. 22; v. 284; p. 607.
- Pocket, Garment-. J. M. Franklin. No. 1,397,729; Nov. 22.
- Pocket-guard. W. N. Walker. No. 1,369,369; Feb. 22; v. 283; p. 629.
- Pocket-knife. P. W. Hallvarson. No. 1,365,487; Jan. 11; v. 282; p. 322.
- Pocket-light. P. R. Bassett. No. 1,380,344; June 7; v. 287; p. 4.
- Pocket-lock. B. Levy. No. 1,364,769; Jan. 4; v. 282; p. 139.
- Pocket, Stake-. J. L. Dahl. No. 1,397,725; Nov. 22.
- Pocketbook. R. H. McFarland. No. 1,371,104; Mar. 8; v. 284; p. 301.
- Pocketbook and the like. L. Langleb. No. 1,390,049; Sept. 6; v. 290; p. 99.
- Pocketbooks, Clasp for. A. Savastano. No. 1,368,058; Feb. 8; v. 283; p. 287.
- Pocketbooks, Safety attachment for. F. Cucinotta. No. 1,380,778; June 7; v. 287; p. 86.
- Poke, Animal-. F. Whigham. No. 1,377,299; May 10; v. 286; p. 232.
- Poke, Cow-. C. W. Gorst. No. 1,391,627; Sept. 20; v. 290; p. 571.



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- Pole and constructing same. R. L. Alexander. No. 1,369,765; Mar. 1; v. 284; p. 3.
- Pole and step therefor. J. J. Gruenfeld, Jr., and P. Kircher. No. 1,369,098; Feb. 22; v. 283; p. 574.
- Pole and step therefor. P. Kircher and J. J. Gruenfeld, Jr. No. 1,369,114; Feb. 22; v. 283; p. 580.
- Poke, Animal. H. Gerdes. No. 1,365,344; Jan. 11; v. 282; p. 304.
- Pole construction, Commutating. P. E. Henninger. No. 1,401,647; Dec. 27.
- Pole, girder, or beam, Metal. M. Lachman. No. 1,382,199; June 21; v. 287; p. 466.
- Pole-mounting. R. G. Williams. No. 1,392,730; Oct. 4.
- Pole structural. F. Engel. No. 1,366,562; Jan. 25; v. 282; p. 618.
- Pole-top switch. E. H. Jacobs. No. 1,367,188; Feb. 1; v. 283; p. 61.
- Pole-trailer. O. E. Byron. No. 1,390,428; Sept. 13; v. 290; p. 265.
- Poles, Plastic base for. M. F. Hoyle. No. 1,378,351; May 17; v. 286; p. 485.
- Polish and making same. W. H. Damon. No. 1,398,891; Nov. 29.
- Polishing and buffing machines, Hood of. G. A. Lelman. No. 1,375,303; Apr. 19; v. 285; p. 476.
- Polishing composition. H. Shackleton and J. Gordon. No. 1,382,127; June 21; v. 287; p. 454.
- Polishing composition and making same. H. C. Kerr. No. 1,397,102; Nov. 15.
- Polishing compound. H. Swanson. No. 1,381,250; June 14; v. 287; p. 229.
- Polishing-machine. H. W. Gabel. No. 1,375,377; Apr. 19; v. 285; p. 489.
- Polishing-machine. M. Tatossian. No. 1,395,163; Oct. 25.
- Polishing-machine. C. A. Wickstrom. No. 1,376,663; May 3; v. 286; p. 53.
- Polishing machine, Cord-. E. I. Friedman. No. 1,387,045; Aug. 9; v. 289; p. 287.
- Polishing or finishing composition. C. Ellis. No. 1,390,691; Sept. 13; v. 290; p. 320.
- Polishing-plates, Renovating. L. Schulte. No. 1,373,837; Apr. 5; v. 285; p. 89.
- Polishing space-bands, Means for. W. H. Schuyler and G. J. Chiles. No. 1,388,767; Aug. 23; v. 289; p. 736.
- Polishing-tool. A. L. Rouze. No. 1,397,660; Nov. 22.
- Polygonal closure. C. Hammer. No. 1,367,254; Feb. 1; v. 283; p. 74.
- Polyphase alternators, Means for eliminating harmonics in. C. L. Fortescue. No. 1,376,425; May 3; v. 286; p. 9.
- Polyphase currents into practically constant direct currents, Transformation of. O. M. Corbino. No. 1,390,504; Sept. 13; v. 290; p. 281.
- Polyphase distributing system. C. L. Fortescue. No. 1,376,419; May 3; v. 286; p. 8.
- Polyphase distributing system. C. L. Fortescue. No. 1,376,422; May 3; v. 286; p. 9.
- Polyphase motor. V. A. Fynn. No. 1,387,046; Aug. 9; v. 289; p. 287.
- Polyphase motor. V. A. Fynn. No. 1,387,047; Aug. 9; v. 289; p. 288.
- Polyphase systems, Balancing means for. C. L. Fortescue. No. 1,376,417; May 3; v. 286; p. 8.
- Ponds, Spraying water in cooling-. L. H. Parker. No. 1,376,112; Apr. 26; v. 285; p. 662.
- Pontoon, Resilient. A. B. Salger. No. 1,384,894; July 12; v. 288; p. 222.
- Pool-cue-tip holder. A. F. Reinheimer. No. 1,390,722; Sept. 13; v. 290; p. 325.
- Pool-table. A. G. Brandt. No. 1,387,345; Aug. 9; v. 289; p. 346.
- Pool-table. J. H. McCool. No. 1,391,909; Sept. 27; v. 290; p. 701.
- Popcorn holder and display cabinet. F. R. Giddings. No. 1,375,502; Apr. 19; v. 285; p. 513.
- Popcorn-husking device. J. H. Sissel. No. 1,386,207; Aug. 2; v. 289; p. 49.
- Popcorn-popper, Electric. A. R. Neff. No. 1,380,579; June 7; v. 287; p. 48.
- Popcorn-sifting machine. E. R. Knott. No. 1,395,715; Nov. 1.
- Popping and dispensing machine, Automatic popcorn. F. Q. Freeburger. No. 1,364,430; Jan. 4; v. 282; p. 74.
- Porcelain jacket-crowns, Apparatus for manufacturing. C. Nishi. No. 1,382,010; June 21; v. 287; p. 431.
- Porcelain-tube-heading machine. T. W. Beatty. No. 1,381,695; June 14; v. 287; p. 312.
- Porch-light. C. H. Bissell. No. 1,382,267; June 21; v. 287; p. 49.
- Porch-swing. E. G. Couch. No. 1,371,197; Mar. 8; v. 284; p. 319.
- Porch-swing and crib, Combination. R. Barbour. No. 1,379,956; May 31; v. 286; p. 937.
- Porch-swing and invalid-couch, Combined. J. Zoulek. No. 1,366,625; Jan. 25; v. 282; p. 629.
- Porous material and forming same, Indurated. O. C. Winestock. No. 1,377,241; May 10; v. 286; p. 220.
- Porous material, Composition for impregnating. W. V. Lauder. No. 1,386,711; Aug. 9; v. 289; p. 219.
- Porous material with liquid, Filling. C. W. Davis and W. S. Brown. No. 1,374,362; Apr. 12; v. 285; p. 231.
- Porous or gelatinous materials, Purification of. O. Linder. No. 1,371,699; Mar. 15; v. 284; p. 481.
- Porsimeter. D. A. MacInnes. No. 1,371,565; Mar. 15; v. 284; p. 456.
- Port-light. A. H. Kenneweg. (Reissue.) No. 15,181; Aug. 23; v. 289; p. 750.
- Port-screen. T. J. Boyan. No. 1,364,695; Jan. 4; v. 282; p. 125.
- Portable baby-carrier. G. P. MacGowan. No. 1,366,405; Jan. 25; v. 282; p. 584.
- Portable bathhouse. J. C. Hammond. No. 1,385,615; July 26; v. 288; p. 694.
- Portable building or structure. C. F. and D. E. McAvoy. No. 1,397,976; Nov. 22.
- Portable electric light. B. Benedict. No. 1,365,885; Jan. 18; v. 282; p. 439.
- Portable elevator. E. N. Hescok and E. F. Smith. No. 1,376,540; May 3; v. 286; p. 30.
- Portable engine. F. D. Ward. No. 1,385,289; July 19; v. 288; p. 550.
- Portable house. F. C. Dorman. No. 1,364,357; Jan. 4; v. 282; p. 60.
- Portable motor. J. A. Anderson. No. 1,375,270; Apr. 19; v. 285; p. 469.
- Portable support. H. Mintz. No. 1,390,807; Sept. 13; v. 290; p. 342.
- Portage device. G. More. No. 1,380,073; May 31; v. 286; p. 959.
- Portioning mechanism. J. F. Wineland. No. 1,395,978; Nov. 1.
- Positioning apparatus and the like, Device for. J. L. Wentz. No. 1,376,125; Apr. 26; v. 285; p. 665.
- Post. See—
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| Anchor-post.         | Removable fencepost.           |
| Bumping-post.        | Signpost.                      |
| Expanding post.      | Sound-post.                    |
| Fencepost.           | Storage-battery terminal post. |
| Indicator-post.      | Tiltable post.                 |
| Insulating end post. | Tool-post.                     |
| Oil dash-pot.        |                                |
- Post. L. G. Haase. No. 1,392,577; Oct. 4.
- Post-card, Novelty. H. O. Rugh. No. 1,396,693; Nov. 8.
- Post, Combination wood and cement. W. B. McDonald. No. 1,379,029; May 24; v. 286; p. 688.
- Post-driving apparatus. C. E. Lamoise. No. 1,387,894; Aug. 16; v. 289; p. 507.
- Post-puller. V. H. Frier. No. 1,373,609; Apr. 5; v. 285; p. 44.
- Post-puller. C. O. Leisure. No. 1,385,326; July 19; v. 288; p. 557.
- Post-puller. N. Peterson. No. 1,389,456; Aug. 30; v. 289; p. 928.
- Postage-marking machine. E. M. McGowan. No. 1,389,062; Aug. 30; v. 289; p. 850.
- Postage-meter and mail-marking machine. J. W. Ogden. No. 1,390,156; Sept. 6; v. 290; p. 120.
- Postage-meter and mail-marking machine. A. H. Pitney. No. 1,370,668; Mar. 8; v. 284; p. 219.
- Postal and other purposes, Manufacture and production of boxes for. H. Usher and C. H. J. Gooch. No. 1,396,605; Nov. 8.
- Poster-frame. W. A. Kilgo. No. 1,396,638; Nov. 8.
- Posthole-digging machine. A. A. Amstutz. No. 1,381,052; June 7; v. 287; p. 140.
- Posting apparatus. C. R. Fargo and P. O. Unger. No. 1,396,510; Nov. 8.
- Posting device. C. R. Fargo and P. O. Unger. No. 1,396,511; Nov. 8.
- Posting-ledger rack. C. E. Clifford and T. J. Mackle. No. 1,380,775; June 7; v. 287; p. 86.
- Pot. See—
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| Coffee-pot. | Melting-pot.              |
| Dash-pot.   | Metal-melting pot.        |
| Firepot.    | Pitch-pot.                |
| Flower-pot. | Self-watering flower-pot. |
| Glue-pot.   | Sprinkling-pot.           |
- Pot-lifter. W. Kopernik. No. 1,370,127; Mar. 1; v. 284; p. 70.
- Pots, Making clay. C. E. Fulton. No. 1,364,875; Jan. 11; v. 282; p. 204.
- Pots, Method and apparatus of forming concrete. C. G. Bewley. No. 1,375,950; Apr. 26; v. 285; p. 631.
- Pots or vessels, Fastening device for lids of. G. H. Downes. No. 1,376,801; May 3; v. 286; p. 80.
- Potash-bearing brines, Recovery of potash from. G. Hecker. No. 1,378,410; May 17; v. 286; p. 497.
- Potash, Making. J. Endler. No. 1,380,195; May 31; v. 286; p. 982.
- Potassium-bearing silicates, Treating. E. Levitt. No. 1,399,216; Dec. 6.
- Potassium bromid, Making. E. O. Barstow and C. W. Jones. No. 1,392,905; Oct. 11.
- Potassium carbonate, Making. I. F. Harlow. No. 1,400,542; Dec. 20.
- Potassium compounds from brines containing the same in association with other chemical compounds, Recovering. C. E. Dolbear. No. 1,394,978; Oct. 25.
- Potassium compounds, Obtaining. M. C. Whitaker. No. 1,400,192; Dec. 13.
- Potassium from the natural substances in which it occurs, Extraction of. S. McKirahan. No. 1,388,276; Aug. 23; v. 289; p. 640.



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- Potassium. Recovering useful substances from minerals and rocks containing. O. Ravner. No. 1,377,601; May 10; v. 286; p. 289.
- Potassium salts from solutions carrying borates or carbonates or both. Recovering. C. E. Dolbear. No. 1,373,179; Mar. 29; v. 284; p. 866.
- Potassium sulfate and aluminum oxid from alunite or similar material. Producing. J. L. Silsbee. No. 1,386,031; Aug. 2; v. 289; p. 14.
- Potassium sulfate. Manufacture of. P. Comment. No. 1,389,861; Sept. 6; v. 290; p. 61.
- Potassium sulfate. Manufacture of. P. Comment. No. 1,389,862; Sept. 6; v. 290; p. 61.
- Potato-bagging device. J. J. Buehler. No. 1,376,249; Apr. 26; v. 285; p. 687.
- Potato-curing apparatus. J. B. Wells. No. 1,370,174; Mar. 1; v. 284; p. 79.
- Potato-cutter. R. F. Wilson. No. 1,390,739; Sept. 13; v. 290; p. 329.
- Potato-cutter. F. S. Young. No. 1,368,090; Feb. 8; v. 283; p. 293.
- Potato-cutting machine. Seed-. G. A. Bentley. No. 1,383,970; July 5; v. 288; p. 147.
- Potato digging and cleaning apparatus. R. L. Oliver. No. 1,367,424; Feb. 1; v. 283; p. 108.
- Potato-peeling machine. B. A. Sharp. No. 1,380,259; May 31; v. 286; p. 994.
- Potato-picker. H. Carlson. No. 1,384,823; July 19; v. 288; p. 455.
- Potato-picker. M. M. and W. Stephens. No. 1,389,789; Sept. 6; v. 290; p. 46.
- Potato-planter. A. Karpenko. No. 1,389,363; Aug. 30; v. 289; p. 910.
- Potato-planter. W. Lippitz. No. 1,389,060; Aug. 30; v. 289; p. 849.
- Potato-seed-cutting machine. G. A. Davidson. No. 1,395,482; Nov. 1.
- Potatoes and other plastic materials. Deposition for mashed. J. G. Grassi. No. 1,397,510; Nov. 22.
- Potatoes. Apparatus for planting seed-. J. B. Crump. No. 1,401,885; Dec. 27.
- Potatoes. Curing-house for sweet. E. J. Iles and O. L. Hastings. (Reissue.) No. 15,156; July 19; v. 288; p. 563.
- Potatoes. Dehydrating. A. E. Allen. No. 1,377,172; May 10; v. 286; p. 207.
- Potatoes for seed. Device for cutting eyes out of large. R. J. Manderfield. No. 1,378,258; May 17; v. 286; p. 468.
- Potatoes. Means for curing sweet. W. D. Cotton. No. 1,388,328; Aug. 23; v. 289; p. 650.
- Potential-regulating system. H. L. Tanner. No. 1,374,165; Apr. 5; v. 285; p. 152.
- Pottery. Machinery for the molding of. A. S. W. Odelberg. No. 1,377,785; May 10; v. 286; p. 326.
- Pottery, &c., Means for casting. B. J. Allen. No. 1,398,760; Nov. 29.
- Pouch. B. Hirsch. No. 1,370,966; Mar. 8; v. 284; p. 275.
- Poultry. Apparatus for cleaning. B. Bouda. No. 1,372,595; Mar. 22; v. 284; p. 709.
- Poultry-coop. J. G. Sheridan. No. 1,385,648; July 26; v. 288; p. 700.
- Poultry device. H. C. Evans. No. 1,384,054; July 12; v. 288; p. 214.
- Poultry-feed apparatus. F. T. Skuse. No. 1,400,833; Dec. 20.
- Poultry-feeder. J. Pfeifer. No. 1,398,041; Nov. 22.
- Poultry, &c., Food-holder for. G. N. Boothe. No. 1,369,079; Feb. 22; v. 283; p. 573.
- Poultry-grit. J. F. Gallagher. No. 1,399,206; Dec. 6.
- Poultry-hover. A. Westman. No. 1,385,235; July 19; v. 288; p. 540.
- Poultry-killer. F. S. Rice and A. P. Cunningham. No. 1,389,784; Sept. 6; v. 290; p. 45.
- Poultry-nest. C. E. Poignant. No. 1,399,872; Dec. 13.
- Poultry. Receptacle for feeding and watering. C. S. Shepard. No. 1,384,785; July 19; v. 288; p. 447.
- Poultry-roost. F. C. Wegner. No. 1,391,596; Sept. 20; v. 290; p. 565.
- Poultry-run. F. O. Stromborg. No. 1,374,120; Apr. 5; v. 285; p. 144.
- Powder and rouge container. R. Y. Barrows. No. 1,385,856; July 26; v. 288; p. 742.
- Powder-blower. T. C. Holmes. No. 1,400,162; Dec. 13.
- Powder-blower. C. F. L. K., C. G., and J. T. Redmon. No. 1,394,686; Oct. 25.
- Powder-box. V. L. Beauchamp. No. 1,389,288; Aug. 30; v. 289; p. 895.
- Powder. Box or receptacle for face-. H. F. Slack. No. 1,375,938; Apr. 26; v. 285; p. 628.
- Powder-cans. Sifter-top for. W. G. Kendall. No. 1,365,246; Jan. 11; v. 282; p. 275.
- Powder charge. Propellant smokeless-. C. I. B. Henning. No. 1,393,623; Oct. 11.
- Powder-container. J. D. Boyle. No. 1,371,017; Mar. 8; v. 284; p. 285.
- Powder-container. J. D. Boyle. No. 1,377,113; May 3; v. 286; p. 140.
- Powder-cutter. Automatic. R. M. Mann. No. 1,367,513; Feb. 1; v. 283; p. 125.
- Powder-dispensing box. H. L. Dunnett. No. 1,371,356; Mar. 15; v. 284; p. 414.
- Powder-dispensing receptacle. P. J. D. Reynolds. No. 1,366,279; Jan. 18; v. 282; p. 516.
- Powder-distributor. H. E. Brandt. No. 1,368,477; Feb. 15; v. 283; p. 417.
- Powder-distributor. D. G. Edwards. No. 1,373,318; Mar. 29; v. 284; p. 893.
- Powder. Explosive. A. Langmeier. No. 1,367,608; Feb. 8; v. 283; p. 201.
- Powder. Making propellant. R. G. Woodbridge, Jr. No. 1,379,073; May 24; v. 286; p. 696.
- Powder. Making propellant. R. G. Woodbridge, Jr. No. 1,396,493; Nov. 8.
- Powder or the like. Box for containing face-. A. Fisher. No. 1,383,394; July 5; v. 288; p. 28.
- Powder. Production of meat. W. F. Remus, A. E. Macredie, and C. F. Cork. No. 1,382,673; June 28; v. 287; p. 611.
- Powder. Propellant bulk smokeless. R. G. Woodbridge, Jr. No. 1,390,740; Sept. 13; v. 290; p. 329.
- Powder-puff. F. J. Bofsky. No. 1,398,712; Nov. 29.
- Powder-puff. W. G. Kendall. No. 1,374,746. Apr. 12; v. 285; p. 305.
- Powder-puff. G. and A. S. Mosheim. No. 1,379,201; May 24; v. 286; p. 721.
- Powder-puff. R. Whitcomb and G. H. Harman. No. 1,376,179; Apr. 26; v. 285; p. 674.
- Powder-puff. Reversible. F. Bornhaupt. No. 1,374,903; Apr. 19; v. 285; p. 398.
- Powder. Reducing sludge to. H. W. Charlton. No. 1,397,078; Nov. 15.
- Powder. Smokeless shotgun-. F. I. du Pont. No. 1,397,042; Nov. 15.
- Powder-tank closure. A. Y. Leech, Jr. No. 1,371,912; Mar. 15; v. 284; p. 521.
- Power: See—
- Suspended pumping power.
- Power accumulator. Undercurrent-. R. B. Miller. No. 1,368,042; Feb. 8; v. 283; p. 284.
- Power-agitator. R. G. Lowe. No. 1,392,345; Oct. 4.
- Power-applying machine. Double compound. J. A. Bozung and P. S. McMahon. No. 1,392,295; Oct. 4.
- Power attachment. A. C. Lindholm. No. 1,376,952; May 3; v. 286; p. 109.
- Power-brake. P. S. Morgan. No. 1,397,012; Nov. 15.
- Power-contained drive-wheel. A. C. Fischer. No. 1,370,298; Mar. 1; v. 284; p. 103.
- Power conveyance. A. M. Dorman. No. 1,364,085; Jan. 4; v. 282; p. 7.
- Power-developing unit. Geared-. H. T. Herr. No. 1,384,834; July 19; v. 288; p. 457.
- Power. Device for transmitting. J. R. Rogers. No. 1,370,047; Mar. 1; v. 284; p. 55.
- Power device. Portable. C. F. Lindgren. No. 1,394,564; Oct. 25.
- Power device. Rotary. E. H. Gollings. No. 1,378,855; May 24; v. 286; p. 655.
- Power device. Rotary. E. H. Gollings. No. 1,378,856; May 24; v. 286; p. 655.
- Power-driven press. E. Johnson. No. 1,397,890; Nov. 22.
- Power-driven punch-presses. Clutch mechanism for. E. Gauthier. No. 1,387,972; Aug. 16; v. 289; p. 522.
- Power driving mechanism for canal and other barges. A. E. Hooke. No. 1,385,130; July 19; v. 288; p. 519.
- Power-engine plant. W. Schmidt. No. 1,398,946; Nov. 29.
- Power factor. Method of and means for increasing. C. Hering. No. 1,389,354; Aug. 30; v. 289; p. 908.
- Power from tides and waves. Method and apparatus for deriving mechanical. J. C. P. Pool. No. 1,377,163; May 8; v. 286; p. 149.
- Power-generating apparatus. D. Domenico. No. 1,385,526; July 26; v. 288; p. 675.
- Power-generator. A. E. Reed. No. 1,369,542; Feb. 22; v. 283; p. 663.
- Power-gurdy. F. A. Houck. No. 1,384,895; July 19; v. 288; p. 469.
- Power-hammer. C. B. Coates. No. 1,382,821; June 28; v. 287; p. 639.
- Power-head. P. A. Myers. No. 1,367,075; Feb. 1; v. 283; p. 38.
- Power-head. P. A. Myers. No. 1,385,141; July 19; v. 288; p. 521.
- Power-head. P. A. Myers. No. 1,385,142; July 19; v. 288; p. 522.
- Power-head. P. A. Myers. No. 1,385,145; July 19; v. 288; p. 522.
- Power-head. P. A. Myers. No. 1,385,146; July 19; v. 288; p. 523.
- Power-head. P. A. Myers. No. 1,393,306; Oct. 11.
- Power installation. Marine-. M. Rotter. No. 1,396,287; Nov. 8.
- Power-interlocking systems. Detector-locking for. W. K. Howe. No. 1,399,257; Dec. 6.
- Power-lift hister. L. H. Kaupke. No. 1,387,406; Aug. 9; v. 289; p. 359.
- Power mechanism. J. L. Forsyth and A. Bopp. No. 1,396,824; Nov. 15.



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 Power plant. L. I. Kelly. No. 1,390,562; Sept. 13; v. 290; p. 293.  
 Power plant. C. E. Kettering and W. A. Chryst. No. 1,380,975; June 7; v. 287; p. 125.  
 Power plant. O. Kraus. No. 1,392,947; Oct. 11.  
 Power plant. A. R. Smith. No. 1,390,062; Sept. 6; v. 290; p. 102.  
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 Power to machinery, Means for the transmission of motive. H. B. Molesworth. No. 1,370,899; Mar. 8; v. 284; p. 262.  
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 Power-transmission mechanism. C. T. Rogers. No. 1,369,051; Feb. 22; v. 283; p. 568.  
 Power-transmission mechanism. F. W. Russell. No. 1,364,584; Jan. 4; v. 282; p. 103.  
 Power-transmission mechanism. M. Sitney. No. 1,364,325; Jan. 4; v. 282; p. 54.  
 Power-transmission mechanism. R. L. Williamson. No. 1,398,928; Nov. 29.  
 Power-transmission system. G. M. Eaton. No. 1,386,987; Aug. 2; v. 289; p. 5.  
 Power transmission, Variable-speed. O. S. Pulliam. No. 1,388,803; Aug. 23; v. 289; p. 645.  
 Power transmission, Variable-speed. C. A. Slocum. No. 1,378,570; May 17; v. 286; p. 527.  
 Power-transmitter. A. H. De Voe. No. 1,397,088; Nov. 15.  
 Power-transmitter. J. S. Finch. No. 1,387,136; Aug. 9; v. 289; p. 304.  
 Power-transmitter. V. Stark. No. 1,368,300; Feb. 15; v. 283; p. 382.  
 Power-transmitters, Means for operating. D. F. Geiger. No. 1,396,954; Nov. 15.  
 Power-transmitting apparatus. L. Essner. No. 1,392,131; Sept. 27; v. 290; p. 747.  
 Power-transmitting device. M. R. Buikema. No. 1,364,707; Jan. 4; v. 282; p. 127.  
 Power-transmitting device. W. J. Francke. No. 1,398,773; Nov. 29.  
 Power-transmitting device. H. H. Hartung. No. 1,380,714; June 7; v. 287; p. 74.  
 Power-transmitting device. A. D. McPherson. No. 1,379,031; May 24; v. 286; p. 688.  
 Power-transmitting device, Adjustable constant-speed. A. Kimble. No. 1,370,749; Mar. 8; v. 284; p. 234.  
 Power-transmitting device, Variable-speed. A. Kimble. No. 1,372,700; Mar. 29; v. 284; p. 769.  
 Power-transmitting element, Cushion. M. R. Karge. No. 1,387,726; Aug. 16; v. 289; p. 474.  
 Power-transmitting joint. C. H. Jacobsen and C. Breer. No. 1,378,118; May 17; v. 286; p. 442.  
 Power-transmitting means. M. H. Benson. No. 1,379,846; May 31; v. 286; p. 916.  
 Power-transmitting mechanism. F. B. Allen. No. 1,372,475; Mar. 22; v. 284; p. 685.  
 Power-transmitting mechanism. E. B. Allen. No. 1,393,417; Oct. 11.  
 Power-transmitting mechanism. L. B. Green. No. 1,373,556; Apr. 5; v. 285; p. 35.  
 Power-transmitting mechanism. B. B. Neuteboom. No. 1,392,439; Oct. 4.  
 Power-transmitting mechanism. W. E. Robb. No. 1,381,745; June 14; v. 287; p. 322.  
 Power-transmitting mechanism. W. A. Stevens. No. 1,398,656; Nov. 29.  
 Power-transmitting mechanism. N. C. Storey. No. 1,401,204; Dec. 27.  
 Power-transmitting mechanism, Variable-speed. H. Enard. No. 1,380,868; June 7; v. 287; p. 104.  
 Power unit, Portable. E. Dickey. No. 1,383,391; July 5; v. 288; p. 28.  
 Power unit, Portable. G. L. Willits. No. 1,366,618; Jan. 25; v. 282; p. 627.  
 Power-wheel. J. Kroth. No. 1,394,417; Oct. 18.  
 Precious metals, Device for saving. A. Christensen. No. 1,371,409; Mar. 15; v. 284; p. 424.  
 Precious metals from solutions, Recovering. R. H. McKee. No. 1,372,971; Mar. 29; v. 284; p. 825.  
 Precious stones during grinding or polishing, Apparatus for making dops to hold. W. J. Davids. No. 1,400,423; Dec. 13.  
 Precious stones, Setting for. T. Mountford. No. 1,385,702; July 26; v. 288; p. 712.  
 Precipitate, Desiccated casein. P. W. Turney. No. 1,364,417; Jan. 4; v. 282; p. 72.  
 Precipitation, Electrical. A. F. Nesbit. No. 1,371,995; Mar. 15; v. 284; p. 537.  
 Precipitator. W. E. Wine. No. 1,377,996; May 10; v. 286; p. 366.  
 Precipitators, Means for cleaning the electrodes in electrical fume-. A. Petersen. No. 1,399,441; Dec. 6.  
 Precision-gage. L. Brown. No. 1,380,945; June 7; v. 287; p. 119.  
 Preservative fluid, Apparatus for making holes in material to receive. M. Rüping. No. 1,370,608; Mar. 8; v. 284; p. 207.  
 Preserving apparatus, Method and device for controlling. W. P. White. No. 1,385,599; July 26; v. 288; p. 690.



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- Press: See—  
 Arbor-press.  
 Automatic dial-press.  
 Baling-press.  
 Barrel-press.  
 Block-press.  
 Briquetting-press.  
 Cartridge-necking press.  
 Cheese-press.  
 Cider-press.  
 Clay-press.  
 Cotton-seed-meal press.  
 Dental press.  
 Die-press.  
 Draw-press.  
 Drawing-press.  
 Drill-press.  
 Embossing printing-press.  
 Expressing-press.  
 Extrusion-press.  
 Filtering or dewatering press.  
 Flower-press.  
 Food-press.  
 Friction-gear press.  
 Fruit-press.  
 Fruit-box press.  
 Fuel-press.  
 Garment-press.  
 Hay-press.  
 Hydraulic press.  
 Hydraulic toggle-press.  
 Juice-extracting press.  
 Leather-press.  
 Mandrel-press.  
 Metal-extrusion press.  
 Molding-press.  
 Multicolor-press.  
 Plate-printing press.  
 Platen printing-press.  
 Pocket-seal press.  
 Power-press.  
 Power-driven press.  
 Printing-press.  
 Punch-press.  
 Seal-press.  
 Sheet-metal press.  
 Shirt-press.  
 Silo-press.  
 Stamping-press.  
 Swaging and forging press.  
 Tire-press.  
 Tread-curing press.  
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 Vulcanizing-press.  
 Presses, punches, and shears, Plate-moving mechanism for. H. Ruff. No. 1,384,093; July 12; v. 288; p. 222.  
 Presses, Safety device for. H. A. Davenport. No. 1,399,049; Dec. 6.  
 Presses, Safety device for. J. Jonor and J. Tomczewski. No. 1,371,426; Mar. 15; v. 284; p. 428.  
 Presses, Safety device for. S. W. Scofield. No. 1,370,369; Mar. 1; v. 284; p. 116.  
 Presses, Safety device for punch-. C. C. Madsen. No. 1,388,354; Aug. 23; v. 289; p. 656.  
 Presses, Safety-guard for. H. Osswald. No. 1,392,699; Oct. 4.  
 Presses, Work-holder for small. G. N. Link. No. 1,374,304; Apr. 12; v. 285; p. 220.  
 Presses, Work-table for use in connection with hand-. A. C. Twigg. No. 1,364,658; Jan. 4; v. 282; p. 118.  
 Pressed-plate wheel. W. E. Williams. No. 1,378,300; May 17; v. 286; p. 476.  
 Pressed-steel ball crank-handle. H. G. Carlson. No. 1,374,186; Apr. 12; v. 285; p. 197.  
 Pressed-steel vehicle-wheel. J. S. Culp. No. 1,375,900; Apr. 26; v. 285; p. 621.  
 Pressed-steel wheel. J. S. Culp. No. 1,375,899; Apr. 26; v. 285; p. 621.  
 Pressed-steel wheel. J. Ledwinka. No. 1,371,382; Mar. 15; v. 284; p. 419.  
 Pressed-steel wheel. J. G. Swain. No. 1,400,837; Dec. 20.  
 Pressed steel wheel. W. E. Williams. No. 1,392,380; Oct. 4.  
 Pressed steel wheel, Flanged disk. W. E. Williams. No. 1,392,381; Oct. 4.  
 Presser device. R. I. Stubbs. No. 1,383,582; July 5; v. 288; p. 67.  
 Presser-roller-releasing device. G. C. Hosh. No. 1,394,554; Oct. 25.  
 Pressers, Headblock for. E. C. Rudoll. No. 1,400,319; Dec. 13.  
 Pressing. H. W. Peth. No. 1,379,312; May 24; v. 286; p. 742.  
 Pressing and other machines, Feeding motion for. H. B. Cranage. No. 1,401,884; Dec. 27.  
 Pressing board, Necktie-. J. Atkocaitis. No. 1,391,444; Sept. 20; v. 290; p. 534.  
 Pressing board, Trousers-. J. Reiges. No. 1,372,039; Mar. 22; v. 284; p. 602.  
 Pressing-iron. S. G. Buskard. No. 1,384,301; July 12; v. 288; p. 265.  
 Pressing-iron. H. W. Peth. No. 1,395,355; Nov. 1.  
 Pressing-machine. W. E. Andrée. No. 1,369,769; Mar. 1; v. 284; p. 3.  
 Pressing-machine. C. L. Braley. No. 1,397,202; Nov. 15.  
 Pressing-machine. B. W. Brockett and D. H. Benjamin. No. 1,383,520; July 5; v. 288; p. 54.  
 Pressing-machine. F. J. Couch. No. 1,364,253; Jan. 4; v. 282; p. 40.  
 Pressing-machine. C. E. Waream and G. N. Link. No. 1,374,261; Apr. 12; v. 285; p. 211.  
 Pressing-machine. C. E. Waream and G. N. Link. No. 1,385,057; July 19; v. 288; p. 503.  
 Pressing-machines, Safety attachment for. C. L. Braley and S. Prestwich. No. 1,395,666; Nov. 1.  
 Pressing-machines, Safety device for. A. J. Dreher. No. 1,392,051; Sept. 27; v. 290; p. 730.  
 Pressing-pad. C. M. Gough. No. 1,390,124; Sept. 6; v. 290; p. 114.  
 Pressure-bar. O. A. Laurence. No. 1,383,645; July 5; v. 288; p. 80.  
 Pressure control system, Fluid-. E. L. Rathburn. No. 1,374,323; Apr. 12; v. 285; p. 223.  
 Pressure cut-off. T. White. No. 1,380,030; May 31; v. 286; p. 951.  
 Pressure-fluid motor. J. E. Pfeffer. No. 1,400,236; Dec. 13.  
 Pressure-gage. W. B. Anderson. No. 1,384,422; July 12; v. 288; p. 291.  
 Pressure-gage. T. W. Anderson. No. 1,400,848; Dec. 20.  
 Pressure-gage. E. B. Crocker. No. 1,375,366; Apr. 19; v. 285; p. 487.  
 Pressure-gage. F. Evans. No. 1,397,728; Nov. 22.  
 Pressure-gage. H. Hastings. No. 1,399,117; Dec. 6.  
 Pressure-gage. A. B. Low. No. 1,392,587; Oct. 4.  
 Pressure-gage. C. J. Manning. No. 1,372,182; Mar. 22; v. 284; p. 629.  
 Pressure-gage. R. M. Nelson. No. 1,391,138; Sept. 20; v. 290; p. 472.  
 Pressure-gage. R. M. Nelson and E. L. Aschenbach. No. 1,393,155; Oct. 11.  
 Pressure gage, Continuous-. A. L. Nye. No. 1,377,220; May 10; v. 286; p. 216.  
 Pressure-gage log. J. G. Paulin. No. 1,398,792; Nov. 29.  
 Pressure-generator. R. E. Davis. No. 1,372,121; Mar. 22; v. 284; p. 617.  
 Pressure indicator or recorder. L. G. P. Thring. No. 1,398,608; Nov. 29.  
 Pressure member. G. A. Knaak. No. 1,385,378; July 26; v. 288; p. 645.  
 Pressure-processing, Device for controlling. G. W. Luhrmann. No. 1,385,631; July 26; v. 288; p. 697.  
 Pressure-reducing gage. G. M. Byrne and W. M. Sibley. No. 1,382,411; June 21; v. 287; p. 507.



- Pressure registering and recording device. L. A. Stenger. No. 1,386,661; Aug. 9; v. 289; p. 209.
- Pressure regulating and governing apparatus, Combined. J. P. Metzger. No. 1,369,690; Feb. 22; v. 283; p. 692.
- Pressure regulating and governing apparatus, Combined. J. P. Metzger. No. 1,369,692; Feb. 22; v. 283; p. 692.
- Pressure regulating and governing apparatus, Combined. J. P. Metzger. No. 1,389,370; Aug. 30; v. 289; p. 911.
- Pressure regulation, System of. E. T. Moore. No. 1,376,455; May 3; v. 286; p. 15.
- Pressure-regulator. A. E. Fleener. No. 1,399,013; Dec. 6.
- Pressure-regulator. A. A. Pindstoffe. No. 1,383,481; July 5; v. 288; p. 46.
- Pressure-relation gage. E. G. Bailey. (Reissue.) No. 15,079; Apr. 12; v. 285; p. 334.
- Pressure-release. R. L. Bacher. No. 1,387,679; Aug. 16; v. 289; p. 464.
- Pressure-relief device. C. C. Egbert. No. 1,394,072; Oct. 18.
- Pressure-tanks, Filler-cup and closure for. R. E. Macdonough. No. 1,397,320; Nov. 15.
- Pressure-tester. W. W. Helle. No. 1,372,022; Mar. 22; v. 284; p. 599.
- Pressure variable resistance. A. Churchward. No. 1,397,361; Nov. 15.
- Pretzel-making machine. J. G. Robbins. No. 1,397,233; Nov. 15.
- Prevention of corrosion. M. A. Adam. No. 1,365,141; Jan. 11; v. 282; p. 255.
- Price-tag holder. A. H. Newton. No. 1,389,266; Aug. 30; v. 289; p. 890.
- Primary-instruction board. C. F. Heine. No. 1,384,192; July 12; v. 288; p. 242.
- Prime movers, Speed-governing mechanism for. H. F. Smith. No. 1,381,512; June 14; v. 287; p. 277.
- Primer, Vent-sealing percussive. F. G. L. Johnson. No. 1,400,554; Dec. 20.
- Priming-cup. C. G. Anderson, Jr. No. 1,399,596; Dec. 6.
- Priming-cup. C. W. Beck. No. 1,369,877; Mar. 1; v. 284; p. 24.
- Priming-cup. C. W. Beck. No. 1,380,345; June 7; v. 287; p. 4.
- Priming-cup. W. S. Eaton. No. 1,372,494; Mar. 22; v. 284; p. 689.
- Priming-cup. W. Grikschelt. No. 1,376,533; May 3; v. 286; p. 29.
- Priming-cup. C. H. Knobbs. No. 1,390,139; Sept. 6; v. 290; p. 117.
- Priming-cup. S. A. Martinek. No. 1,373,625; Apr. 5; v. 285; p. 47.
- Priming-cup. E. G. Van Wie. No. 1,372,165; Mar. 22; v. 284; p. 626.
- Priming-cups, Cover for. A. C. Dobrick. No. 1,372,220; Mar. 22; v. 284; p. 637.
- Priming device. B. J. Donada. No. 1,367,025; Feb. 1; v. 283; p. 28.
- Priming device. C. A. Johnson and J. P. Carruthers. No. 1,399,625; Dec. 6.
- Priming device. E. C. McKenzie-Martyn and F. A. Howard. No. 1,394,921; Oct. 25.
- Priming device. F. G. Slemmer. No. 1,374,401; Apr. 12; v. 285; p. 239.
- Priming, &c., Pump for. W. J. Rudolph. No. 1,396,529; Nov. 8.
- Print-drier. B. P. Enright. No. 1,400,273; Dec. 13.
- Print-washing tank. V. F. Langton and J. J. Underwood. No. 1,386,262; Aug. 2; v. 289; p. 60.
- Prints, Method of and apparatus for making multicolor. O. R. Schultz and O. Kirsch. No. 1,379,365; May 24; v. 286; p. 751.
- Printed forms, Device for reversing. E. J. Stenner. No. 1,381,677; June 14; v. 287; p. 308.
- Printer's chase. E. Jackson. No. 1,394,307; Oct. 18.
- Printers' forms, Frame for. L. G. Garbe. No. 1,398,544; Nov. 29.
- Printer's galley. F. L. Schley. No. 1,389,223; Aug. 30; v. 289; p. 881.
- Printer's galley. J. W. Shields. No. 1,386,079; Aug. 2; v. 289; p. 24.
- Printer's inking-roller. G. Runge. No. 1,386,427; Aug. 2; v. 289; p. 91.
- Printer's quoin. G. Duncanson, Jr. No. 1,375,495; Apr. 19; v. 285; p. 512.
- Printer's quoin. A. and L. Sauter. No. 1,395,149; Oct. 25.
- Printers' rollers, Manufacturing. S. Kutner. No. 1,397,528; Nov. 22.
- Printing and calculating machine. C. J. Stimson. No. 1,397,559; Nov. 22.
- Printing and folding machine. J. J. Walser. No. 1,373,214; Mar. 29; v. 284; p. 873.
- Printing and folding machine. J. J. Walser. No. 1,373,215; Mar. 29; v. 284; p. 873.
- Printing and folding machine. J. J. Walser. No. 1,373,216; Mar. 29; v. 284; p. 873.
- Printing and issuing machine, Transfer. A. D. Rogers and R. J. Manker. No. 1,383,760; July 5; v. 288; p. 104.
- Printing and ruling machine. E. E. Strawn. No. 1,398,475; Nov. 29.
- Printing and serving machine. C. E. Wyrick. No. 1,391,356; Sept. 20; v. 290; p. 516.
- Printing apparatus. R. Adams. No. 1,395,328; Nov. 1.
- Printing apparatus, Telegraph. A. T. MacCoy and R. F. Allen. No. 1,365,004; Jan. 11; v. 282; p. 229.
- Printing appliance. J. P. Quiggan. No. 1,379,936; May 31; v. 286; p. 933.
- Printing-block and making same. A. K. Taylor. No. 1,378,573; May 17; v. 286; p. 528.
- Printing-block, Wooden-back. W. J. Yceoll. No. 1,379,433; May 24; v. 286; p. 764.
- Printing-case. L. A. Kelly. No. 1,387,007; Aug. 9; v. 289; p. 279.
- Printing device. J. S. Duncan. No. 1,375,683; Apr. 26; v. 285; p. 580.
- Printing device. S. H. Paxton. No. 1,372,085; Mar. 22; v. 284; p. 611.
- Printing, Device for use in fade. W. O. Owen. No. 1,397,601; Nov. 22.
- Printing device, Late-news. H. A. W. Wood. No. 1,400,924; Dec. 20.
- Printing device, Record. D. B. Gray. No. 1,372,501; Mar. 22; v. 284; p. 690.
- Printing-form and means of ruling same. W. C. Hollister. No. 1,378,230; May 17; v. 286; p. 462.
- Printing-form and the art and means for producing same. C. H. Griffith. No. 1,376,532; May 3; v. 286; p. 29.
- Printing-frame. C. E. Jackson. No. 1,399,122; Dec. 6.
- Printing-machine. W. M. Bacon. No. 1,385,654; July 26; v. 288; p. 702.
- Printing-machine. V. E. L. Chauvette. No. 1,398,360; Nov. 29.
- Printing-machine. A. R. Curtis and C. E. Oathout. No. 1,377,754; May 10; v. 286; p. 319.
- Printing-machine. J. A. Loyster. No. 1,366,012; Jan. 18; v. 282; p. 464.
- Printing-machine. A. G. Ogden. No. 1,388,968; Aug. 30; v. 289; p. 831.
- Printing-machine. W. G. Reynolds. No. 1,376,640; May 3; v. 286; p. 49.
- Printing-machine. C. F. Robbins. No. 1,390,388; Sept. 13; v. 290; p. 258.
- Printing-machine. R. H. S. Wolverton. No. 1,400,124; Dec. 13.
- Printing-machine. A. S. Wysong. No. 1,365,879; Jan. 18; v. 282; p. 438.
- Printing-machine. A. S. Wysong. No. 1,380,509; June 7; v. 287; p. 35.
- Printing machine, Block. J. Kirkpatrick. No. 1,372,701; Mar. 29; v. 284; p. 770.
- Printing machine, Color. C. Alvord. No. 1,383,589. July 5; v. 288; p. 68.
- Printing-machine, Coupon-ticket. M. J. Hoffman. No. 1,371,893; Mar. 15; v. 284; p. 517.
- Printing machine, Electric blue. J. H. Wagenhorst. No. 1,383,352; July 5; v. 288; p. 19.
- Printing machine, Electric blue. J. H. Wagenhorst. No. 1,383,353; July 5; v. 288; p. 19.
- Printing-machine folding cylinder. T. J. Mills and E. T. Morris. No. 1,365,933; Jan. 18; v. 282; p. 449.
- Printing, Machine for producing raised. S. Lipsius. No. 1,391,743; Sept. 27; v. 290; p. 668.
- Printing machine, Intaglio. I. Tornberg. No. 1,370,071; Mar. 1; v. 284; p. 59.
- Printing machine, Linoleum or like. W. K. Harris. No. 1,384,024; July 5; v. 288; p. 159.
- Printing machine, Photographic. J. Abel. No. 1,375,662; Apr. 26; v. 285; p. 577.
- Printing machine, Rotary photogravure. W. Pickup. No. 1,399,987; Dec. 13.
- Printing machine, Ticket. M. D. Howard. No. 1,367,186; Feb. 1; v. 283; p. 60.
- Printing machine, Ticket. F. Skerl. No. 1,382,685; June 28; v. 287; p. 613.
- Printing-machines, Feeding mechanism for. A. S. Bullen and C. Jeayes. No. 1,396,622; Nov. 8.
- Printing-machines, Gripping mechanism for. L. E. Morrison. No. 1,394,183; Oct. 18.
- Printing-machines, Inking mechanism for. O. L. Raabe. No. 1,396,055; Nov. 8.
- Printing-machines, Offset-preventing mechanism for. I. Tornberg. No. 1,374,253; Apr. 12; v. 285; p. 210.
- Printing-machines or the like, Humidifier for. G. C. Flint. No. 1,374,726; Apr. 12; v. 285; p. 302.
- Printing machines, Paper-bag. S. J. Holtham. No. 1,363,258; Feb. 15; v. 283; p. 374.
- Printing-machines, Plate-registering mechanism for. F. C. Marquardt. No. 1,374,859; Apr. 12; v. 285; p. 327.
- Printing machines, Portable card for plate. H. G. Popham. No. 1,375,800; Apr. 26; v. 285; p. 601.
- Printing machines, Printing-block for block. W. H. Waldron. No. 1,365,572; Jan. 11; v. 282; p. 338.
- Printing-machines, Sheet-delivery for. C. Winkler. No. 1,374,791; Apr. 12; v. 285; p. 314.
- Printing-machines, Transfer mechanism for. L. E. Morrison. No. 1,393,036; Oct. 11.
- Printing-machines, Tripping mechanism for. L. E. Morrison. No. 1,393,037; Oct. 11.
- Printing means, Designation. W. W. Lasker. No. 1,388,271; Aug. 23; v. 289; p. 638.
- Printing, Means for preventing offset in. J. E. Doyle. No. 1,366,069; Jan. 18; v. 282; p. 475.
- Printing mechanism for listing-machines, &c. Clear-signal. O. D. Johantgen. No. 1,396,215; Nov. 8.
- Printing-plate. E. E. Novotny. No. 1,377,503; May 10; v. 286; p. 272.



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- Printing-plate. E. E. Novotny. No. 1,377,509; May 10; v. 286; p. 272.
- Printing-plate. E. E. Novotny. No. 1,377,514; May 10; v. 286; p. 273.
- Printing-plate. E. E. Novotny. No. 1,377,518; May 10; v. 286; p. 274.
- Printing-plate. E. E. Novotny. No. 1,377,519; May 10; v. 286; p. 274.
- Printing-plate and making same. W. J. Yeocell. No. 1,379,430; May 24; v. 286; p. 764.
- Printing-plate and making same. W. J. Yeocell. No. 1,379,432; May 24; v. 286; p. 764.
- Printing-plate. Electrotype. E. E. Novotny. No. 1,377,504; May 10; v. 286; p. 272.
- Printing-plate holder. E. E. Strawn. No. 1,392,896; Oct. 4.
- Printing-plate holder. F. M. Turck. No. 1,383,351; July 5; v. 288; p. 19.
- Printing-plate holder. W. S. Warnock. No. 1,382,151; June 21; v. 287; p. 457.
- Printing-plate holder. W. S. Warnock. No. 1,382,152; June 21; v. 287; p. 457.
- Printing-plate matrices or molds, &c., Making. E. E. Novotny. No. 1,377,501; May 10; v. 286; p. 271.
- Printing-plate matrix. E. E. Novotny. No. 1,377,513; May 10; v. 286; p. 273.
- Printing-plate and matrix. E. E. Novotny. No. 1,401,633; Dec. 27.
- Printing-plate matrix and making same. W. J. Yeocell. No. 1,379,431; May 24; v. 286; p. 764.
- Printing-plate matrix and making same. W. J. Yeocell. No. 1,379,434; May 24; v. 286; p. 764.
- Printing-plate matrix and making same. E. E. Novotny. No. 1,398,142; Nov. 22.
- Printing-plate, Metallic-backed. E. E. Novotny. No. 1,377,506; May 10; v. 286; p. 272.
- Printing-plate, Mounted. H. W. Hacker. No. 1,385,824; July 26; v. 288; p. 736.
- Printing-plate mounting. W. F. Brüggmann. No. 1,399,047; Dec. 6.
- Printing-plate or the like and means for securing the same in predetermined positions in printing-presses. W. C. Huebner. No. 1,391,117; Sept. 20; v. 290; p. 468.
- Printing-plate registration. E. E. Novotny. No. 1,377,511; May 10; v. 286; p. 273.
- Printing-plate. Rubber-faced. E. E. Novotny. No. 1,377,505; May 10; v. 286; p. 272.
- Printing-plate starter. L. A. Schmidt. No. 1,381,349; June 14; v. 287; p. 247.
- Printing-plate-trimming machine. J. Simpson. No. 1,394,765; Oct. 25.
- Printing-plate, Typographic. J. Murray. No. 1,396,653; Nov. 8.
- Printing-plates, Apparatus for curving. L. W. Claybourn. No. 1,372,064; Mar. 22; v. 284; p. 607.
- Printing-plates, Correcting. S. E. Dittman. No. 1,370,418; Mar. 1; v. 284; p. 125.
- Printing-plates, Making. A. C. Austin. No. 1,382,613; June 28; v. 287; p. 599.
- Printing-plates, Making curved. H. E. Hubbard. No. 1,384,897; July 19; v. 288; p. 469.
- Printing-plates, Making metallic. C. N. Smith. No. 1,397,607; Nov. 22.
- Printing-plates, Making rails for. W. G. Imlach. No. 1,392,502; Oct. 4.
- Printing-plates, Manufacturer of. E. E. Novotny. No. 1,377,516; May 10; v. 286; p. 273.
- Printing-plates, Measuring-sheet for preparing. M. Lichter. No. 1,372,174; Mar. 22; v. 284; p. 627.
- Printing plates or surfaces for printing from, Manufacture of. A. J. N. Walker. No. 1,375,874; Apr. 26; v. 285; p. 616.
- Printing-plates. Rectification of. E. E. Novotny. No. 1,377,515; May 10; v. 286; p. 273.
- Printing-plates to cylinders, Means for attaching. C. E. Drange. No. 1,373,656; Apr. 5; v. 285; p. 53.
- Printing-press. R. Adams. No. 1,391,711; Sept. 27; v. 290; p. 662.
- Printing-press. A. Anderson. No. 1,395,076; Oct. 25.
- Printing-press. M. A. Droitcour. No. 1,380,469; June 7; v. 287; p. 27.
- Printing-press. F. S. English. No. 1,375,450; Apr. 19; v. 285; p. 503.
- Printing-press. L. Friedman. No. 1,396,182; Nov. 8.
- Printing-press. C. L. Friel. No. 1,370,421; Mar. 1; v. 284; p. 126.
- Printing-press. J. E. Lee. No. 1,367,193; Feb. 1; v. 283; p. 62.
- Printing-press. C. A. Meisel. No. 1,399,360; Dec. 6.
- Printing-press. C. A. Meisel. Nos. 1,401,422-3; Dec. 27.
- Printing-press. J. L. Oberly. No. 1,396,872; Nov. 15.
- Printing-press. J. J. Walser. No. 1,388,676; Aug. 23; v. 289; p. 718.
- Printing-press. J. White and W. K. Eckhard. No. 1,364,598; Jan. 4; v. 282; p. 106.
- Printing-press and blanking-machine. E. Craig. No. 1,383,531; July 5; v. 288; p. 56.
- Printing-press attachment. H. F. Aylor. No. 1,366,859; Jan. 25; v. 282; p. 675.
- Printing-press attachment. W. H. Chapman. No. 1,394,064; Oct. 18.
- Printing-press attachment. J. H. Cunningham. No. 1,381,806; June 14; v. 287; p. 333.
- Printing-press attachment. A. Lundquist. No. 1,384,203; July 12; v. 288; p. 245.
- Printing-press cutter-shafts, Device for holding. F. S. English. No. 1,380,644; June 7; v. 287; p. 60.
- Printing-press delivery mechanism. B. D. Stevens. No. 1,365,742; Jan. 18; v. 282; p. 410.
- Printing-press gage. E. A. Corby. No. 1,399,291; Dec. 6.
- Printing-press gage. E. L. Megill. No. 1,385,637; July 26; v. 288; p. 698.
- Printing-press gage. N. D. Ponnay. No. 1,367,091; Feb. 1; v. 283; p. 42.
- Printing-press inking mechanism. J. J. Walser and H. Fankboner. No. 1,376,982; May 3; v. 286; p. 115.
- Printing-press inking-roller truck. L. J. Warner. No. 1,395,317; Nov. 1.
- Printing-press inking-roller trucks, Wheel for. L. J. Warner. No. 1,395,318; Nov. 1.
- Printing press, Insert. H. A. W. Wood. No. 1,392,469; Oct. 4.
- Printing press, Multicolor. C. N. Galland and W. A. Kelsey. No. 1,382,773; June 28; v. 287; p. 630.
- Printing-press, Rotary. P. Martin. No. 1,386,573; Aug. 2; v. 289; p. 119.
- Printing press, Two-way sign. C. W. Turner. No. 1,401,570; Dec. 27.
- Printing press, Web intaglio. B. R. Stickney. No. 1,378,386; May 17; v. 286; p. 492.
- Printing-presses, Attachment for. C. L. Welsh. No. 1,400,704; Dec. 20.
- Printing-presses, Attachment for platen. C. R. Brown. No. 1,376,187; Apr. 26; v. 285; p. 675.
- Printing-presses, Automatic scraper control for roto-gravure. C. G. Pritchard. No. 1,383,338; July 5; v. 288; p. 16.
- Printing-presses, Auxiliary track for. J. H. Schussler. No. 1,373,454; Apr. 5; v. 285; p. 14.
- Printing presses, Bed-motion for sheet. B. F. Upham and F. R. Belluche. No. 1,398,817; Nov. 29.
- Printing presses, Delivery attachment for. H. F. Hampshire and F. B. Cranmer. No. 1,399,477; Dec. 6.
- Printing-presses, Distributing-roller for. E. O. Hentschel. No. 1,396,110; Nov. 8.
- Printing-presses, Feed-gage for use on. E. L. Megill. No. 1,370,827; Mar. 8; v. 284; p. 249.
- Printing-presses, Feed-table for. I. Berkowitz. No. 1,395,897; Nov. 1.
- Printing-presses, Feeding attachment for. C. F. Woznicki. No. 1,372,583; Mar. 22; v. 284; p. 707.
- Printing-presses, Ink-distributor for. E. F. Marceau. No. 1,379,353; May 24; v. 286; p. 750.
- Printing-presses, Ink-distributing attachment for platen. R. O. Vandercook. No. 1,382,948; June 21; v. 287; p. 420.
- Printing-presses, Inking mechanism for. C. Henderson. No. 383,945; July 5; v. 288; p. 142.
- Printing-presses, Inking mechanism for. R. Miehle. No. 1,382,525; June 21; v. 287; p. 529.
- Printing-presses, Inking mechanism for. R. S. Philip. No. 1,379,649; May 31; v. 286; p. 879.
- Printing-presses, Jogger mechanism for. L. E. Morrison. No. 1,394,182; Oct. 18.
- Printing-presses, Method of and means for dampening plate-cylinders in offset-process. C. H. Geiger and T. E. Dunwoody. No. 1,377,769; May 10; v. 286; p. 322.
- Printing-presses, Paper-guiding device for. P. W. Cowan. No. 1,366,769; Jan. 25; v. 282; p. 657.
- Printing-presses, Plate-holder for. H. G. Turner. No. 1,369,909; Mar. 1; v. 284; p. 30.
- Printing-presses, Reciprocating cutter for. O. V. Dutro and A. S. Burroughs. No. 1,372,221; Mar. 22; v. 284; p. 637.
- Printing-presses, Sheet-supporting device for. E. P. Jennings. No. 1,392,062; Sept. 27; v. 290; p. 733.
- Printing-presses, Tympan-removing device for. C. L. Post. No. 1,371,052; Mar. 8; v. 284; p. 291.
- Printing-presses, Tympan-removing device for. C. L. Post. No. 1,371,053; Mar. 8; v. 284; p. 292.
- Printing, Lithographic. G. Ruthven. No. 1,364,523; Jan. 4; v. 282; p. 93.
- Printing rule and slug and type-form. A. E. Markwell. No. 1,364,125; Jan. 4; v. 282; p. 15.
- Printing trade, Method and apparatus for making color-correcting and color-separation negatives for plate. E. A. Raschke. No. 1,373,020; Mar. 29; v. 284; p. 834.
- Prism, Eyepiece. F. E. Wright. No. 1,370,938; Mar. 8; v. 284; p. 270.
- Prismatic telescope. A. A. Kent. No. 1,364,381; Jan. 4; v. 282; p. 64.
- Production and simultaneous conversion of articles obtained from solutions into their ultimate forms. B. Borzykowski. No. 1,375,823; Apr. 26; v. 285; p. 606.
- Production and simultaneous conversion of articles obtained from solutions into their ultimate forms. B. Borzykowski. No. 1,375,824; Apr. 26; v. 285; p. 606.
- Products by disruptive conduction, Apparatus for treating. F. S. Smith. No. 1,399,162; Dec. 6.
- Profiling-machine. F. E. Ferris. No. 1,367,542; Feb. 8; v. 283; p. 189.
- Projectile. C. Chlowsky. No. 1,376,316; Apr. 26; v. 285; p. 701.
- Projectile. R. Lunell. No. 1,384,841; July 19; v. 288; p. 459.



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- Projectile. A. Freitas. No. 1,373,322; Mar. 29; v. 284; p. 894.
- Projectile. F. D. Sprague and P. W. Allison. No. 1,382,750; June 28; v. 287; p. 626.
- Projectile. T. S. Wilkinson. No. 1,371,207; Mar. 8; v. 284; p. 321.
- Projectile. R. L. Wright. No. 1,374,703; Apr. 12; v. 285; p. 298.
- Projectile. R. L. Wright. No. 1,374,705; Apr. 12; v. 285; p. 298.
- Projectile and bomb combined. R. L. Wright. No. 1,374,706; Apr. 12; v. 285; p. 298.
- Projectile, Armor-piercing. R. A. Hadfield, A. G. M. Jack, and I. B. Milne. No. 1,381,633; June 14; v. 287; p. 300.
- Projectile, Armor-piercing. R. A. Hadfield and A. G. M. Jack. No. 1,398,229; Nov. 29.
- Projection apparatus. H. N. Ott. No. 1,392,207; Sept. 27; v. 290; p. 762.
- Projectile, Explosive. A. K. Brumbaugh, J. W. Reading, and L. S. Clarke. No. 1,367,234; Feb. 1; v. 283; p. 70.
- Projectile, Illuminating. J. A. Svejda. No. 1,365,865; Jan. 18; v. 282; p. 435.
- Projectile, Self-propelled. C. G. Abbot. No. 1,380,172; May 31; v. 286; p. 978.
- Projectile-thrower. L. B. Harvey. No. 1,400,058; Dec. 13.
- Projectile, Torpedo-obstructing. W. A. Crawford-Frost. No. 1,377,467; May 10; v. 286; p. 265.
- Projectiles, Electric gun or apparatus for propelling. A. L. O. Fanchon-Villeplée. No. 1,370,200; Mar. 1; v. 284; p. 84.
- Projectiles, Machine for discharging. J. N. Gilbert. No. 1,376,013; Apr. 26; v. 285; p. 642.
- Projectiles, Safety device for fuses for. K. Wieser. No. 1,372,582; Mar. 22; v. 284; p. 706.
- Projecting apparatus. G. L. W. Palmer. No. 1,388,193; Aug. 23; v. 289; p. 622.
- Projecting apparatus, Lamp for. N. Power. No. 1,377,728; May 10; v. 286; p. 313.
- Projecting apparatus. A. Reiche. No. 1,401,189; Dec. 27.
- Projecting means, Image. R. B. Tabor. No. 1,372,573; Mar. 22; v. 284; p. 704.
- Projection apparatus. A. Ames, Jr. No. 1,376,913; May 3; v. 286; p. 102.
- Projection-screen. I. Lazarus. No. 1,399,566; Dec. 6.
- Projector-support, Universal. W. Wenderhold. No. 1,383,683; July 5; v. 288; p. 88.
- Proofing apparatus, Bucket for. F. Streick. No. 1,382,610; June 21; v. 287; p. 545.
- Propantriol from sugar, Manufacturing of. W. Connstein and K. Lüdecke. No. 1,368,023; Feb. 8; v. 283; p. 280.
- Propeller. A. Boerner. No. 1,386,490; Aug. 2; v. 289; p. 102.
- Propeller. C. E. Burroughs. No. 1,378,655; May 17; v. 286; p. 544.
- Propeller. J. B. Camet. No. 1,365,371; Jan. 11; v. 282; p. 299.
- Propeller. C. H. Casper. No. 1,370,876; Mar. 8; v. 284; p. 258.
- Propeller. G. Catanzano. No. 1,380,093; May 31; v. 286; p. 963.
- Propeller. N. A. Christensen. No. 1,369,399; Feb. 22; v. 283; p. 635.
- Propeller. E. P. Conway. No. 1,366,635; Jan. 25; v. 282; p. 631.
- Propeller. D. A. Dickey. No. 1,400,033; Dec. 13.
- Propeller. T. A. Dicks and J. B. Luttrell. No. 1,365,159; Jan. 11; v. 282; p. 259.
- Propeller. T. A. Dicks. No. 1,383,791; July 5; v. 288; p. 111.
- Propeller. D. C. Dorman. No. 1,372,742; Mar. 29; v. 284; p. 778.
- Propeller. A. P. Filippi. No. 1,378,776; May 17; v. 286; p. 568.
- Propeller. J. S. Funk. No. 1,396,680; Nov. 8.
- Propeller. T. L. Helsabeck. No. 1,375,907; Apr. 26; v. 285; p. 622.
- Propeller. P. C. Hewitt. No. 1,378,113; May 17; v. 286; p. 441.
- Propeller. W. V. Kamp and T. R. Macmechen. No. 1,372,755; Mar. 29; v. 284; p. 779.
- Propeller. A. T. Kasley. No. 1,372,295; Mar. 22; v. 284; p. 651.
- Propeller. C. H. W. H., and V. H. Leinweber and A. Zemann. No. 1,372,441; Mar. 22; v. 284; p. 679.
- Propeller. J. M. Lemieux. No. 1,387,416; Aug. 9; v. 289; p. 361.
- Propeller. W. J. Pattosien. No. 1,368,747; Feb. 15; v. 283; p. 470.
- Propeller. A. Pick. No. 1,372,086; Mar. 22; v. 284; p. 611.
- Propeller. H. F. Rae. No. 1,366,836; Jan. 25; v. 282; p. 670.
- Propeller. B. Schmelzer. No. 1,372,834; Mar. 29; v. 284; p. 796.
- Propeller. W. W. Smith. No. 1,380,431; June 7; v. 287; p. 20.
- Propeller. B. B. Wood. No. 1,365,808; Jan. 18; v. 282; p. 424.
- Propeller, Adjustable. S. Hart and R. I. Eustis. No. 1,366,074; Jan. 18; v. 282; p. 476.
- Propeller, Aerial. E. Klumpp. No. 1,368,732; Feb. 15; v. 283; p. 467.
- Propeller, Aeronautical. R. W. Davis. No. 1,386,458; Aug. 2; v. 289; p. 96.
- Propeller and making same. L. T. Frederick. No. 1,367,181; Feb. 1; v. 283; p. 49.
- Propeller-blade, Adjustable. E. Juelson. No. 1,382,836; June 28; v. 287; p. 642.
- Propeller-blades, Apparatus for machining. S. Heath. No. 1,373,813; Apr. 5; v. 285; p. 84.
- Propeller-blades, Automatic pitch-adjuster for. C. K. Henington. No. 1,364,755; Jan. 4; v. 282; p. 136.
- Propeller-blades, Automatic pitch-adjuster for. C. K. Henington. No. 1,388,038; Aug. 16; v. 289; p. 535.
- Propeller, Boat-. O. H. Olive. No. 1,366,825; Jan. 25; v. 282; p. 668.
- Propeller, Cycloid. H. H. C. Dunwoody. No. 1,385,908; July 26; v. 288; p. 752.
- Propeller device for boats, Disappearing-. A. D. MacLean. No. 1,385,488; July 26; v. 288; p. 667.
- Propeller, High-speed. S. Heath. No. 1,364,197; Jan. 4; v. 282; p. 29.
- Propeller, Hollow metal. F. H. Luense. No. 1,372,076; Mar. 22; v. 284; p. 609.
- Propeller-hub, Self-tightening. D. A. Dickey. No. 1,400,032; Dec. 13.
- Propeller mechanism. C. Jackson. No. 1,370,587; Mar. 8; v. 284; p. 203.
- Propeller mechanism. J. E. Ollivier. No. 1,393,157; Oct. 11.
- Propeller, Reversing. N. E. Davies. No. 1,378,401; May 17; v. 286; p. 495.
- Propeller-rotating device. J. E. Manas. No. 1,379,461; May 24; v. 286; p. 769.
- Propeller, Screw-. R. M. Dungan. No. 1,371,610; Mar. 15; v. 284; p. 464.
- Propeller, Screw-. I. Garela. No. 1,377,827; May 10; v. 286; p. 334.
- Propeller, Screw-. E. A. Vessey. No. 1,365,132; Jan. 11; v. 282; p. 253.
- Propeller, Screw-. C. B. Walker. No. 1,374,786; Apr. 12; v. 285; p. 313.
- Propeller, Screw-. C. B. Walker. No. 1,374,787; Apr. 12; v. 285; p. 313.
- Propeller, Self-clearing. T. Svenson. No. 1,390,397; Sept. 13; v. 290; p. 260.
- Propeller-shaft. W. Gloor. No. 1,396,325; Nov. 8.
- Propeller-shaft mounting. A. G. Senstius. No. 1,390,464; Sept. 13; v. 290; p. 272.
- Propeller-shafts, Attaching universal-joint spiders to tubular. A. E. Linendoll. No. 1,375,852; Apr. 26; v. 285; p. 611.
- Propeller-shafts, Clutch for turbine-driven geared. T. H. Matthews and H. W. Lee. No. 1,380,823; June 7; v. 287; p. 96.
- Propeller-shafts, Stuffing-box for. C. W. Cedervall. No. 1,399,421; Dec. 6.
- Propeller, Variable-pitch. L. T. Frederick. No. 1,365,314; Jan. 11; v. 282; p. 288.
- Propeller, Variable-pitch. L. T. Frederick. No. 1,367,132; Feb. 1; v. 283; p. 50.
- Propeller, Variable-pitch. H. P. Jensen-Beärlundd. No. 1,380,305; May 31; v. 286; p. 1002.
- Propellers, Apparatus for making. S. Heath. No. 1,364,196; Jan. 4; v. 282; p. 29.
- Propelling apparatus, Variable-direction. R. S. Hedtler and M. R. Taylor. No. 1,392,763; Oct. 4.
- Propelling device. J. Koenig. No. 1,369,672; Feb. 22; v. 283; p. 688.
- Propelling device, Portable. W. C. Williams. No. 1,379,880; Mar. 31; v. 286; p. 924.
- Propelling device, Vehicle-. C. Dahl. No. 1,368,610; Feb. 15; v. 283; p. 443.
- Propelling mechanism. R. E. Small. No. 1,381,939; June 21; v. 287; p. 418.
- Propelling mechanism. J. S. Whitaker. No. 1,365,138; Jan. 11; v. 282; p. 254.
- Propelling mechanism, Boat-. C. H. Clower. No. 1,367,123; Feb. 1; v. 283; p. 48.
- Propulsion, Aerial and marine. W. A. Heidtmann and G. H. Sumner. No. 1,370,313; Mar. 1; v. 284; p. 106.
- Propulsion, Ship. W. L. R. Emmet. No. 1,373,873; Apr. 5; v. 285; p. 96.
- Protective and alarm system. J. Menchen. No. 1,377,264; May 10; v. 286; p. 225.
- Protective device. C. T. Allcutt. No. 1,371,538; Mar. 15; v. 284; p. 450.
- Protective device. E. E. F. Creighton. No. 1,374,826; Apr. 12; v. 285; p. 321.
- Protective device. E. E. F. Creighton. No. 1,396,559; Nov. 8.
- Protective device. E. E. F. Creighton and F. R. Shavor. No. 1,394,971; Oct. 25.
- Protective device. P. R. Fortin. No. 1,401,685; Dec. 27.
- Protective device. H. G. French. No. 1,374,727; Apr. 12; v. 285; p. 302.
- Protective device. H. G. French. No. 1,382,968; June 28; v. 287; p. 667.
- Protective device. H. G. French. No. 1,397,276; Nov. 15.
- Protective device. R. C. Leake. No. 1,380,300; May 31; v. 286; p. 1002.
- Protective device. N. D. Levin. No. 1,370,656; Mar. 8; v. 284; p. 216.
- Protective device. N. S. Starr and L. E. Collier. No. 1,391,915; Sept. 27; v. 290; p. 702.



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- Protective device. B. L. Stemmons. No. 1,396,538; Nov. 8.
- Protective device. B. H. Thompson. No. 1,375,981; Apr. 26; v. 285; p. 636.
- Protective material. A. Arent. No. 1,388,827; Aug. 23; v. 289; p. 747.
- Protective mechanism. J. F. Collins. No. 1,374,636; Apr. 12; v. 285; p. 285.
- Protective treatment of materials. A. Arent. No. 1,388,824; Aug. 23; v. 289; p. 747.
- Protective treatment of materials. A. Arent. No. 1,388,829; Aug. 23; v. 289; p. 748.
- Protectively treating materials. A. Arent. No. 1,388,825; Aug. 23; v. 289; p. 747.
- Protectively treating materials. A. Arent. No. 1,388,828; Aug. 23; v. 289; p. 748.
- Protector, Brush-. F. A. Seymour. No. 1,365,552; Jan. 11; v. 282; p. 334.
- Protector, Check-. B. G. Cobb. No. 1,369,400; Feb. 22; v. 283; p. 635.
- Protector, Check-. I. Mund and M. Starr. No. 1,364,575; Jan. 4; v. 282; p. 102.
- Protector, Sanitary. C. Schoen. No. 1,376,785; May 3; v. 286; p. 76.
- Protector, Shank-. G. G. Mead. No. 1,367,884; Feb. 8; v. 283; p. 255.
- Protector, Universal triangle-. J. Magill. No. 1,370,605; Mar. 8; v. 284; p. 206.
- Proteins, Manufacture of articles from. H. Plauson. No. 1,395,729; Nov. 1.
- Protractor. J. N. Neumaier. No. 1,387,297; Aug. 9; v. 289; p. 336.
- Protractor, Line-. E. A. Stevens. No. 1,368,857; Feb. 15; v. 283; p. 491.
- Protractor or drafting implement. J. M. Gwinn, Jr. No. 1,383,803; July 5; v. 288; p. 113.
- Prune-tray cleaner and sacker. G. F. Starr. No. 1,388,211; Aug. 23; v. 289; p. 626.
- Pruning-machine. W. D. Gleason. No. 1,382,350; June 21; v. 287; p. 495.
- Pruning machine, Tree-. G. H. Georgelis. No. 1,364,432; Jan. 4; v. 282; p. 75.
- Psychic game. T. H. White. No. 1,370,249; Mar. 1; v. 284; p. 94.
- Puddling-furnace, Oscillating. J. P. Roe. No. 1,375,181; Apr. 19; v. 285; p. 452.
- Puff-iron. B. Schindler and J. G. Viertel. No. 1,371,000; Mar. 8; v. 284; p. 282.
- Puff-iron. A. E. Snow. No. 1,376,046; Apr. 26; v. 285; p. 649.
- Pull-switch. C. A. Renholdt. No. 1,400,376; Dec. 13.
- Pull-switch. A. H. Nero. No. 1,401,276; Dec. 27.
- Puller: See—
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| Cotton-stalk puller.   | Spike-puller.                 |
| Drill-puller.          | Staple-puller.                |
| Gear-puller.           | Steering-wheel-spider puller. |
| Hydraulic puller.      | Stump-puller.                 |
| Liner-puller.          | Tie-puller.                   |
| Mechanical puller.     | Valve-puller.                 |
| Nail-puller.           | Weed-puller.                  |
| Pile-puller.           | Wheel-puller.                 |
| Plate-puller.          | Wire and cable puller.        |
| Post-puller.           |                               |
| Rod-puller.            |                               |
- Puller, Mechanical. C. H. Howland - Sherman. No. 1,400,606; Dec. 20.
- Pulley: See—
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- Pulley. G. Bollen. No. 1,369,319; Feb. 22; v. 283; p. 619.
- Pulley. H. E. Printz. No. 1,375,607; Apr. 19; v. 285; p. 533.
- Pulley. A. Cyr. No. 1,400,142; Dec. 13.
- Pulley. J. G. Fischer. No. 1,400,671; Dec. 20.
- Pulley. E. C. Oliver. No. 1,380,495; June 7; v. 287; p. 32.
- Pulley. A. Rapp. No. 1,365,957; Jan. 18; v. 282; p. 453.
- Pulley. E. E. Rayburn. No. 1,385,396; July 26; v. 288; p. 648.
- Pulley. J. F. Rose. No. 1,385,276; July 19; v. 288; p. 548.
- Pulley. A. W. L. Schermuly. No. 1,393,723; Oct. 11.
- Pulley. C. A. Stoner. No. 1,392,717; Oct. 4.
- Pulley. J. E. Walling. No. 1,396,608; Nov. 8.
- Pulley-adaptor. C. F. Nickerson. No. 1,371,512; Mar. 15; v. 284; p. 445.
- Pulley-adaptor. C. F. Nickerson. (Reissue.) No. 1,515,159; July 19; v. 288; p. 564.
- Pulley and collar, Balance. C. F. Howes. No. 1,380,965; June 7; v. 287; p. 123.
- Pulley and friction-wheel lagging, Construction of. J. A. Bried. No. 1,391,238; Sept. 20; v. 290; p. 493.
- Pulley and housing therefor, Window-. R. Norris. No. 1,367,276; Feb. 1; v. 283; p. 78.
- Pulley and sheath therefor. F. E. Matthews. No. 1,392,957; Oct. 11.
- Pulley, Automatic lock-. C. A. Kestell. No. 1,389,514; Aug. 30; v. 289; p. 939.
- Pulley, Ball-bearing. F. J. Lemley. No. 1,390,996; Sept. 20; v. 290; p. 443.
- Pulley-block. J. H. Flynn, Jr. No. 1,379,255; May 24; v. 286; p. 730.
- Pulley-block. J. B. Nesmeyer. No. 1,376,457; May 3; v. 286; p. 15.
- Pulley-block construction. W. J. Lee. No. 1,366,088; Jan. 18; v. 282; p. 479.
- Pulley-blocks, Integral hook and shackle for. J. H. Flynn, Jr. No. 1,365,677; Jan. 18; v. 282; p. 398.
- Pulley-casing. W. F. Krueger. No. 1,398,783; Nov. 29.
- Pulley construction. T. Olinger. No. 1,372,900; Mar. 29; v. 284; p. 811.
- Pulley construction. L. Rouanet. No. 1,373,675; Apr. 5; v. 285; p. 57.
- Pulley, Expanding. G. Buttress. No. 1,388,797; Aug. 23; v. 289; p. 742.
- Pulley-face-frictioning composition. D. M. Benford. No. 1,383,692; July 5; v. 288; p. 90.
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- Pulley, Magnetic. C. G. Buchanan. No. 1,365,966; Jan. 18; v. 282; p. 455.
- Pulley, Metal. H. J. Gilbert. No. 1,382,829; June 28; v. 287; p. 641.
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- Pulleys, Adjusting device for elevator-boat. G. L. Grass. No. 1,387,849; Aug. 16; v. 289; p. 499.
- Pulleys, Air-skimmer for belt-. H. M. Plaisted. No. 1,375,173; Apr. 19; v. 285; p. 450.
- Pulleys, Attachment for. J. A. Burnett. No. 1,376,742; May 3; v. 286; p. 68.
- Pulleys, Belt for grooved. C. F. Nickerson. No. 1,371,513; Mar. 15; v. 284; p. 445.
- Pulleys, Bearing for. J. M. Aubert. No. 1,367,936; Feb. 8; v. 283; p. 264.
- Pulleys, Centrifugal lubricating-cup for loose. L. P. Gorton. No. 1,388,251; Aug. 23; v. 289; p. 634.
- Pulleys, Forming the rim members of sheet-metal. E. G. Larson and J. T. Söderström. No. 1,366,671; Jan. 25; v. 282; p. 637.
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- Pump, Centrifugal. P. G. Bogdanoff. No. 1,369,380; Feb. 22; v. 283; p. 631.
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- Pump, Double-acting duplex. B. F. Curtis. No. 1,400,477; Dec. 13.
- Pump, Double-action. W. F. Bell. No. 1,379,515; May 24; v. 286; p. 780.
- Pump, Double-balance centrifugal. W. R., H. J., and E. M. Wood. No. 1,395,464; Nov. 1.
- Pump, Dredge-. A. G. Stenberg. No. 1,374,533; Apr. 12; v. 285; p. 265.
- Pump-driving mechanism. G. L. McCain. No. 1,382,997; June 28; v. 287; p. 673.
- Pump, Dust-cleaning suction-. O. M. Kennedy. No. 1,401,789; Dec. 27.
- Pump, Ejector fluid-. G. A. Moss. No. 1,385,884; July 26; v. 288; p. 748.
- Pump, Fluid-. C. A. Booker. No. 1,369,382; Feb. 22; v. 283; p. 632.
- Pump, Fluid-. N. A. Nelson. No. 1,370,903; Mar. 8; v. 284; p. 263.
- Pump, Fluid-. F. D. Sheldon. No. 1,388,315; Aug. 23; v. 289; p. 648.
- Pump, Fluid-. B. Skidmore, Jr. No. 1,390,391; Sept. 13; v. 290; p. 258.
- Pump, Fluid-actuated liquid-measuring. J. R. Gould. No. 1,391,104; Sept. 20; v. 290; p. 465.
- Pump, Foot-. L. H. Wheeler. No. 1,382,603; June 21; v. 287; p. 544.
- Pump for automobiles, Power-operated air-. E. David. No. 1,377,403; May 10; v. 286; p. 252.
- Pump for delivering liquid. E. L. Pease. No. 1,383,997; July 5; v. 288; p. 153.
- Pump for exhausting air and gases. H. A. Fleuss. No. 1,382,184; June 21; v. 287; p. 463.
- Pump for hydraulic presses. N. B. Henry. No. 1,377,248; May 10; v. 286; p. 222.
- Pump for motor-vehicles. J. G. Vincent. No. 1,386,816; Aug. 9; v. 289; p. 241.
- Pump for oil-wells, Inserted. T. A. Northrup. No. 1,378,268; May 17; v. 286; p. 470.
- Pump for pneumatic water systems. J. J. Brown. No. 1,372,931; Mar. 29; v. 284; p. 817.
- Pump for refrigerating systems, Gas-. C. E. Anderson. No. 1,395,547; Nov. 1.
- Pump, Fuel-feeding. D. J. Cartwright. No. 1,380,771; June 7; v. 287; p. 81.
- Pump, Gear-driven. E. Lage. No. 1,386,261; Aug. 2; v. 289; p. 60.
- Pump governor mechanism. W. F. Cooper. No. 1,394,887; Oct. 25.
- Pump, Grease-. J. N. Bagley and W. M. Dutton. No. 1,399,240; Dec. 6.
- Pump, Grease-. J. V. Roser. No. 1,383,241; June 28; v. 287; p. 719.
- Pump-head. S. M. Fulton. No. 1,382,281; June 21; v. 287; p. 482.
- Pump, High-pressure. K. D. Smith. No. 1,387,623; Aug. 16; v. 289; p. 453.
- Pump, Hydraulic. C. S. Bowen. No. 1,377,871; May 10; v. 286; p. 342.
- Pump, Impeller-vane for water-. W. E. Anderson. No. 1,367,343; Feb. 1; v. 283; p. 92.
- Pump, Injection-. W. I. Smalley. No. 1,378,571; May 17; v. 286; p. 527.
- Pump-jack. R. P. Bevan. No. 1,365,081; Jan. 11; v. 282; p. 243.
- Pump-jack. S. C. Christensen. No. 1,370,518; Mar. 8; v. 284; p. 189.
- Pump-jack. H. Comstock. No. 1,401,317; Dec. 27.
- Pump-jack. C. J. Dever. No. 1,387,364; Aug. 9; v. 289; p. 350.
- Pump-jack. J. N. Edwards. No. 1,392,310; Oct. 4.
- Pump-jack. R. W. E. Hayes. No. 1,379,917; May 31; v. 286; p. 929.
- Pump-jack. J. Jorgensen. No. 1,365,785; Jan. 18; v. 282; p. 420.
- Pump-jack. E. Tyden. No. 1,367,217; Feb. 1; v. 283; p. 67.
- Pump, Liquid-measuring. E. Eger. No. 1,389,547; Aug. 30; v. 289; p. 946.
- Pumps, Liquid seal for. R. L. Ferguson. No. 1,401,060; Dec. 20.
- Pump-lubrication system, Deep-well-. V. Schleyer. No. 1,392,227; Sept. 27; v. 290; p. 766.
- Pump-lubricator. C. C. Farmer. No. 1,384,889; July 19; v. 288; p. 468.
- Pump-lubricator. E. G. Ripley. No. 1,397,548; Nov. 22.
- Pump, Lubricator-. W. J. Schlacks. No. 1,384,098; July 12; v. 288; p. 223.
- Pump, Measuring-. W. T. Hatmaker. No. 1,378,029; May 17; v. 286; p. 424.
- Pump mechanism. S. N. Hall. No. 1,388,427; Aug. 23; v. 289; p. 670.
- Pump mechanism. P. Ostenberg. No. 1,379,579; May 24; v. 286; p. 792.
- Pump mechanism, Positive-stroke. R. P. Callard. No. 1,380,702; June 7; v. 287; p. 71.
- Pump, Motor-driven tire-. G. N. Guthrey. No. 1,368,139; Feb. 8; v. 283; p. 303.
- Pump, Oil-. S. R. and H. D. Hughes. No. 1,379,690; May 31; v. 286; p. 887.
- Pump, Oil-. C. Long. No. 1,377,895; May 10; v. 286; p. 347.
- Pump-operating apparatus. D. Rohen. No. 1,392,224; Sept. 27; v. 290; p. 765.
- Pump-operating mechanism. T. B. Nickel. No. 1,391,572; Sept. 20; v. 290; p. 560.
- Pump or compressor, Rotary. G. B. Petsche. No. 1,384,276; July 12; v. 288; p. 260.
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- Pump-piston. H. L. C. Hansen. No. 1,388,254; Aug. 23; v. 289; p. 635.



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- Pump-piston. M. F. Yount. No. 1,372,262; Mar. 22; v. 284; p. 645.
- Pump-pistons, Lubricating device for. J. W. Drew. No. 1,390,680; Sept. 13; v. 290; p. 318.
- Pump-plunger. R. E. Carmichael. No. 1,396,714; Nov. 8.
- Pump-plunger. D. A. Decrow. No. 1,380,363; June 7; v. 287; p. 8.
- Pump-plunger. F. J. Miller. No. 1,393,953; Oct. 18.
- Pump, Pneumatic. B. S. Aikman. No. 1,385,065; July 19; v. 288; p. 506.
- Pump, Pneumatic. H. L. Frost. No. 1,387,376; Aug. 9; v. 289; p. 353.
- Pump, Pneumatic. D. H. Reeves. No. 1,385,752; July 26; v. 288; p. 721.
- Pump, Pneumatic. T. E. Smythe. No. 1,380,603; June 7; v. 287; p. 53.
- Pump, Power-. T. D. Weaver. No. 1,383,885; July 5; v. 288; p. 130.
- Pump, Power-driven. P. A. Myers. No. 1,368,449; Feb. 15; v. 283; p. 411.
- Pump, Power-driven. D. E. Yates. No. 1,391,036; Sept. 20; v. 290; p. 451.
- Pump, Power-driven tire-. J. G. Graham. No. 1,382,722; June 28; v. 287; p. 621.
- Pump, Propeller-. M. P. Schetzel. No. 1,401,193; Dec. 27.
- Pump, Reciprocating. K. O. Keller. No. 1,385,005; July 19; v. 288; p. 493.
- Pump, Rotary. F. F. Ambrose. No. 1,390,744; Sept. 13; v. 290; p. 330.
- Pump, Rotary. J. T. Auger. No. 1,369,073; Feb. 22; v. 283; p. 572.
- Pump, Rotary. A. Hayes. Nos. 1,395,916-7; Nov. 1.
- Pump, Rotary. C. E. Hultgreen. No. 1,365,245; Jan. 11; v. 282; p. 275.
- Pump, Rotary. C. W. Jackman. No. 1,395,714; Oct. 25.
- Pump, Rotary. E. H. Muschwitz. No. 1,378,891; May 24; v. 286; p. 662.
- Pump, Rotary. A. H. Nelson. No. 1,387,296; Aug. 9; v. 289; p. 336.
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- Pump, Rotary. G. B. Petsche. No. 1,380,013; May 31; v. 286; p. 948.
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- Pump, Rotary. M. Tamini. No. 1,392,090; Sept. 27; v. 290; p. 738.
- Pump, Rotary. W. F. Traudt. No. 1,366,139; Jan. 18; v. 282; p. 488.
- Pump, Rotary. J. L. Webb. No. 1,382,580; June 21; v. 287; p. 539.
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- Pump, Tire-. F. Hjorth. No. 1,392,829; Oct. 4.
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- Pump, Turbine-. H. Strong. No. 1,372,786; Mar. 29; v. 284; p. 787.
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- Pump-valve. J. W. Drew. No. 1,376,863; May 3; v. 286; p. 92.
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- Pump, Vertical. W. F. Barnickol and A. W. Archer. No. 1,367,450; Feb. 1; v. 283; p. 113.
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- Pumps, Antisander for piston-. J. H. Hart. No. 1,379,302; May 24; v. 286; p. 739.
- Pumps, Attachment for windmill-operated. W. R. Nicholson. No. 1,374,385; Apr. 12; v. 285; p. 235.
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- Pumps, Compressed-air. W. Milam. No. 1,397,877; Nov. 22.
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- Pumps, Crosshead mechanism of double-plunger. H. G. Lykken. No. 1,364,636; Jan. 4; v. 282; p. 113.
- Pumps, Discharge T for. A. A. Barton. No. 1,364,680; Jan. 4; v. 282; p. 122.
- Pumps, Impeller for centrifugal. J. Wareing and A. Hill. No. 1,383,354; July 5; v. 288; p. 20.
- Pumps, Lubricating device for the shaft-bearings of rotary. M. Tüllman. No. 1,372,576; Mar. 22; v. 284; p. 705.
- Pumps of bicycles and like vehicles, Support for air-. A. Mosca. No. 1,385,280; July 19; v. 288; p. 545.
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- Pumps, Power attachment for automobile hand-. C. C. Mohney. No. 1,376,718; May 3; v. 286; p. 64.
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- Pumps, Safety attachment for the suction-pipes of centrifugal. J. C. Hogue. No. 1,372,139; Mar. 22; v. 284; p. 621.
- Pumps, Self-lubricating piston for air-. J. H. Bradneck. No. 1,376,857; May 3; v. 286; p. 91.
- Pumps, Self-maintaining lubricating system for deep-well. V. Schleyer. No. 1,392,228; Sept. 27; v. 290; p. 766.
- Pumps, Submerged. W. H. Albricht and P. W. Reardon. No. 1,370,506; Mar. 8; v. 284; p. 187.
- Pumps, Sucker-rod attachment to prevent sanding up of well-. R. L. Burns and F. F. Winger. No. 1,379,165; May 24; v. 286; p. 713.
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- Pumps, Wind-motor for air-. G. Yanacopoulos. No. 1,369,596; Feb. 22; v. 283; p. 673.
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- Pumping apparatus. E. O. Cartwright. No. 1,388,511; Aug. 23; v. 289; p. 687.
- Pumping apparatus. M. T. Chapman. No. 1,385,069; July 19; v. 288; p. 506.
- Pumping apparatus. W. E. Janney, H. E. Fiscel, and J. L. Miller. No. 1,377,776; May 10; v. 286; p. 324.
- Pumping apparatus. P. A. Myers. No. 1,385,143; July 19; v. 288; p. 522.
- Pumping, Apparatus for underground. P. Loubet. No. 1,401,620; Dec. 27.
- Pumping apparatus, Pneumatic. A. E. Chodzko. No. 1,372,994; Mar. 29; v. 284; p. 829.
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- Pumping device. J. W. Gordon. No. 1,386,330; Aug. 2; v. 289; p. 73.
- Pumping device. G. K. Light. No. 1,390,051; Sept. 6; v. 290; p. 99.
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- Pumping mechanism. E. S. Lidstone. No. 1,385,215; July 19; v. 288; p. 536.
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- Punch. S. Boisseau. No. 1,377,055; May 3; v. 286; p. 129.
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- Punch, Hand-. E. C. Green. No. 1,391,890; Sept. 27; v. 290; p. 697.
- Punch-holder. D. W. Sjöholm. No. 1,365,738; Jan. 18; v. 282; p. 410.
- Punch-press. G. J. Blum. No. 1,382,464; June 21; v. 287; p. 517.
- Punch-press. T. F. Morris. No. 1,389,263; Aug. 30; v. 289; p. 890.
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- Punching-machine. A. Spear. No. 1,382,940; June 28; v. 287; p. 662.
- Punching-machine. G. P. Thomas. No. 1,383,673; July 5; v. 288; p. 86.
- Punching machine, Horseshoe-. J. Brock. No. 1,377,799; May 10; v. 286; p. 328.
- Punching-machines, Attachment for. C. S. Nelson. No. 1,371,324; Mar. 15; v. 284; p. 407.
- Punching, shearing, section-cutter, bar-cutter, and coping and notching machine, Combined. H. B. Kraut. No. 1,389,880; Sept. 6; v. 290; p. 65.
- Puncture-closing composition, Making. C. O. Hopping. No. 1,375,510; Apr. 19; v. 285; p. 515.
- Puncture-closing tread-strip. H. C. Priyett. No. 1,390,249; Sept. 6; v. 290; p. 188.
- Puncture-proof inner tube. R. R. Lloyd. No. 1,392,894; Oct. 4.
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- Purifier reverse-flow mechanism. F. W. Steere. No. 1,386,443; Aug. 2; v. 289; p. 94.
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- Purifying bauxite. E. Everhart. No. 1,397,414; Nov. 15.
- Purifying morganic materials. G. A. Hulett. No. 1,368,396; Feb. 15; v. 283; p. 401.
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- Puzzle. J. Fleet. No. 1,384,057; July 12; v. 288; p. 215.
- Puzzle. I. Giza. No. 1,374,729; Apr. 12; v. 285; p. 302.
- Puzzle. C. T. Hime. No. 1,388,710; Aug. 23; v. 289; p. 724.
- Puzzle. E. Lange. No. 1,389,198; Aug. 30; v. 289; p. 877.
- Puttee. E. H. McCrahon. No. 1,367,065; Feb. 1; v. 283; p. 37.
- Puzzle. R. K. Millard. No. 1,380,998; June 7; v. 287; p. 129.
- Puzzle. G. A. Parmenter. No. 1,393,565; Oct. 11.
- Puzzle. M. Peak. No. 1,367,561; Feb. 8; v. 283; p. 193.
- Puzzle. J. V. Wells. No. 1,377,039; May 3; v. 286; p. 126.
- Puzzle. C. H. Willison. No. 1,364,668; Jan. 4; v. 282; p. 120.
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- Puzzle and game. J. Antiga y Escobar. No. 1,368,425; Feb. 15; v. 283; p. 406.
- Puzzle of the movies. W. D. McGuire, Jr. No. 1,379,871; May 31; v. 286; p. 921.
- Pyorrhea, Means for treatment of. J. R. Irwin. No. 1,389,662; Sept. 6; v. 290; p. 21.
- Pyrometer, Electric. T. W. Varley. No. 1,375,872; Apr. 26; v. 285; p. 615.
- Pyrometer-switch. M. T. Lothrop. No. 1,399,134; Dec. 6.
- Pyrometric method and apparatus. R. C. Drinker. No. 1,367,026; Feb. 1; v. 283; p. 29.
- Pyrometry, Optical. F. E. Bash. No. 1,376,666; May 3; v. 286; p. 54.
- Pyrophoric igniting device. S. Luber and M. Eibetz. No. 1,394,917; Oct. 25.
- Pyrotechnic composition. R. R. Fulton. Nos. 1,399,953-4; Dec. 13.
- Pyrotechnic device. J. Jex. No. 1,397,425; Nov. 15.
- Pyrotechnical device. C. E. Bivins. No. 1,384,424; July 12; v. 288; p. 291.
- Pyroxylin solvent. R. B. Mitchell. No. 1,397,173; Nov. 15.
- Pyroxylin solvent. R. B. Mitchell. No. 1,397,493; Nov. 15.
- Quartering and crank-pin-turning machine. D. H. Teas and A. Wood. No. 1,397,468; Nov. 15.
- Quartz glass, Making articles of. J. Scharl. No. 1,375,657; Apr. 19; v. 285; p. 542.
- Quartz glass, Producing articles of. J. Scharl. No. 1,368,990; Feb. 15; v. 283; p. 615.
- Queen-bee-rearing device. W. B. Yates. No. 1,397,830; Nov. 22.
- Quenching-machine. O. Schlaupitz. No. 1,385,402; July 26; v. 288; p. 649.
- Quick-acting high-pressure connection. W. J. Rudolph. No. 1,393,908; Oct. 18.
- Quick-acting wrench. R. E. Dupuy. No. 1,371,080; Mar. 8; v. 284; p. 297.
- Quick-action tailstock. G. Wilcox. No. 1,373,158; Mar. 29; v. 284; p. 862.
- Quick-adjusting wrench. W. F. Rotermund. No. 1,373,529; Apr. 5; v. 285; p. 30.
- Quick-adjustment wrench. H. M. Sprague. No. 1,394,369; Oct. 18.
- Quick-break double-through switch. F. Zenker. No. 1,400,400; Dec. 13.
- Quick-break double-throw switch. A. P. Ball. No. 1,400,343; Dec. 13.
- Quick-break double-throw switch. B. D. Horton. No. 1,400,360; Dec. 13.
- Quick-break double-throw switch. A. R. Woolfolk, Jr. No. 1,400,337; Dec. 13.
- Quick-break switch. C. D. Platt. No. 1,365,007; Jan. 11; v. 282; p. 230.
- Quill-winders, Guide for. J. A. Olbon. No. 1,388,595; Aug. 23; v. 289; p. 702.
- Quilting-frame. K. R. Allen. No. 1,390,857; Sept. 13; v. 240; p. 352.
- Quilting-frame. W. F. Gage. No. 1,380,202; May 31; v. 286; p. 983.
- Quinin-silver-phosphate composition and making same. R. L. Crowe. No. 1,399,604; Dec. 6.
- Quoit. T. H. Tabor. No. 1,379,883; May 31; v. 286; p. 923.
- Rack: See—
- |                            |                                    |
|----------------------------|------------------------------------|
| Adjustable reading-rack.   | Locking-rack.                      |
| Bar-rack.                  | Luggage-rack.                      |
| Barrel-rack.               | Material-rack.                     |
| Battery-plate-burner rack. | Milk-bottle rack.                  |
| Binder-rack.               | Oven-rack.                         |
| Can-rack.                  | Pan-rack.                          |
| Canning-rack.              | Phonograph - record - filing rack. |
| Caponizing-rack.           | Posting-ledger rack.               |
| Clothes-rack.              | Reel-fly rack.                     |
| Differential rack.         | Routing-rack.                      |
| Display-rack.              | Shoe-rack.                         |
| Feed-rack.                 | Sorting-rack.                      |
| Film-rack.                 | Spool-rack.                        |
| Film-developing rack.      | Straw-rack.                        |
| Foldable sink-rack.        | Tire-rack.                         |
| Folding clothes-rack.      | Towel-rack.                        |
| Hook-rack.                 | Towel-rack.                        |
| Household drying-rack.     | Wagon-rack.                        |
| Inclosed rack.             | Wheel-rack.                        |
| List-rack.                 |                                    |
- Rack. A. G. Bumgardner. No. 1,395,989; Nov. 1.
- Rack. M. A. and O. Yates. No. 1,378,161; May 17; v. 286; p. 450.
- Rack and separator, Towel. J. R. Roy. No. 1,372,196; Mar. 22; v. 284; p. 632.
- Rack-cleaning device. I. W. Jones. No. 1,392,647; Oct. 4.
- Rack device. F. Goertz. No. 1,375,840; Apr. 26; v. 285; p. 609.
- Rack, Display-. C. W. Thompson. No. 1,396,300; Nov. 8.
- Rack for chemicals, &c. M. Mendel. No. 1,367,620; Feb. 8; v. 283; p. 204.
- Rack for clothes, Wall-. C. W. Hagerman. No. 1,367,697; Feb. 8; v. 283; p. 219.
- Rack for literature, music, and art, Holding and display. N. A. Lundberg. No. 1,366,813; Jan. 25; v. 282; p. 666.
- Rack for loose-leaf volumes. C. L. Harvey. No. 1,367,875; Feb. 8; v. 283; p. 253.
- Rack-holder. S. Volz. No. 1,371,279; Mar. 15; v. 284; p. 398.
- Rack or frame, Portable. C. B. Martell. No. 1,383,324; July 5; v. 288; p. 13.
- Racket. G. Agutter. No. 1,381,050; June 7; v. 287; p. 140.
- Radial drill. D. C. Klausmeyer. No. 1,374,581; Apr. 12; v. 285; p. 274.
- Radial engine. A. G. Larson. No. 1,394,419; Oct. 18.
- Radiant energy, Apparatus for transmitting. F. A. Kolster. No. 1,394,560; Oct. 25.
- Radiant-energy detecting and translating device. T. W. Case. No. 1,390,883; Sept. 13; v. 290; p. 358.
- Radiant-energy signaling system. T. W. Case. No. 1,379,166; May 24; v. 286; p. 714.



- Radiant heater. M. H. Shoenberg and G. J. Henry. No. 1,393,321; Oct. 11.
- Radiant impulses, Method and apparatus for signaling and otherwise utilizing. R. A. Fessenden. No. 1,384,014; July 5; v. 288; p. 157.
- Radiator. E. M. Bassler. No. 1,368,318; Feb. 15; v. 283; p. 385.
- Radiator. P. J. H. Bernard. No. 1,371,725; Mar. 15; v. 284; p. 486.
- Radiator. P. J. H. Bernard. No. 1,393,740; Oct. 18.
- Radiator. H. A. Cureton. No. 1,381,618; June 14; v. 287; p. 297.
- Radiator. E. T. Curran. No. 1,367,023; Feb. 1; v. 283; p. 28.
- Radiator. E. T. Curran. No. 1,389,631; Sept. 6; v. 290; p. 14.
- Radiator. E. T. Curran. No. 1,389,744; Sept. 6; v. 290; p. 37.
- Radiator. C. A. Dragorits. No. 1,393,765; Oct. 18.
- Radiator. W. J. Farrell. No. 1,384,606; July 12; v. 288; p. 329.
- Radiator. J. M. Fedders. No. 1,368,220; Feb. 8; v. 283; p. 319.
- Radiator. R. and A. Fevola. No. 1,375,500; Apr. 19; v. 285; p. 512.
- Radiator. W. A. Finlayson. No. 1,386,461; Aug. 2; v. 289; p. 97.
- Radiator. M. Gal. No. 1,378,103; May 17; v. 286; p. 433.
- Radiator. O. J. Groehn and F. L. Aldis. No. 1,396,931; Nov. 15.
- Radiator. R. L. Hawkins. No. 1,379,015; May 24; v. 286; p. 686.
- Radiator. W. R. Hildebrand. No. 1,385,450; July 26; v. 288; p. 659.
- Radiator. J. A. Hromadko. No. 1,376,882; May 3; v. 286; p. 96.
- Radiator. A. Kehm. No. 1,383,724; July 5; v. 288; p. 97.
- Radiator. H. D. Kellogg. No. 1,371,031; Mar. 8; v. 284; p. 288.
- Radiator. M. King. No. 1,376,943; May 3; v. 286; p. 107.
- Radiator. J. T. Lamm and F. K. Huffman. No. 1,381,649; June 14; v. 287; p. 303.
- Radiator. U. Magni. No. 1,401,343; Dec. 27.
- Radiator. C. McNeely. No. 1,374,021; Apr. 5; v. 285; p. 125.
- Radiator. R. Naujoks. No. 1,399,146; Dec. 6.
- Radiator. A. Nebel. No. 1,377,912; May 10; v. 286; p. 350.
- Radiator. F. A. Neveu. No. 1,399,571; Dec. 6.
- Radiator. F. A. Neveu. No. 1,401,918; Dec. 27.
- Radiator. M. Polnoroff. No. 1,400,978; Dec. 20.
- Radiator. W. Sparks. No. 1,397,116; Nov. 15.
- Radiator. L. Wagenseil. No. 1,376,178; Apr. 26; v. 285; p. 674.
- Radiator. R. B. Weber. No. 1,372,380; Mar. 22; v. 284; p. 667.
- Radiator. O. E. Werneke. No. 1,395,883; Nov. 1.
- Radiator air-regulator. J. M. Fedders. No. 1,367,031; Feb. 1; v. 283; p. 29.
- Radiator, Airplane-. E. T. Curran. No. 1,389,745; Sept. 6; v. 290; p. 37.
- Radiator and similar structure. C. H. True. No. 1,368,770; Feb. 15; v. 283; p. 474.
- Radiator, Automobile-. J. A. Hussar. No. 1,401,604; Dec. 27.
- Radiator, Automobile-. C. F. Sperry. No. 1,401,565; Dec. 27.
- Radiator, Automobile-. M. Witte. No. 1,365,759; Jan. 18; v. 282; p. 414.
- Radiator-bracket. M. D. Woodling. No. 1,393,874; Oct. 18.
- Radiator-cap. C. B. Dossett. No. 1,394,288; Oct. 18.
- Radiator-cap. C. E. Gifford. No. 1,382,499; June 21; v. 287; p. 524.
- Radiator-cap. C. C. Himes. No. 1,379,626; May 31; v. 286; p. 875.
- Radiator-cap holder. L. L. Harmon. No. 1,372,812; Mar. 29; v. 284; p. 792.
- Radiator-cap lock. S. P. Rice and E. Michell. No. 1,387,313; Aug. 9; v. 289; p. 340.
- Radiator, Cellular. A. W. L. Hartbauer. No. 1,399,767; Dec. 13.
- Radiator, Circular. J. Froelich. No. 1,390,899; Sept. 13; v. 290; p. 361.
- Radiator-closure. W. R. Strickland. No. 1,371,402; Mar. 15; v. 284; p. 423.
- Radiator construction. G. Horvath. No. 1,377,965; May 10; v. 286; p. 360.
- Radiator construction, Tubular-. S. Volk. No. 1,391,871; Sept. 27; v. 290; p. 694.
- Radiator, Cooling-. H. N. Searles. No. 1,365,793; Jan. 18; v. 282; p. 421.
- Radiators, Cooling. H. N. Searles. No. 1,401,562; Dec. 27.
- Radiator-cooling cap. J. C. Davis. No. 1,371,669; Mar. 15; v. 284; p. 475.
- Radiator-core. R. E. Benner. No. 1,380,132; May 31; v. 286; p. 970.
- Radiator-core. L. Holly. No. 1,368,202; Feb. 8; v. 283; p. 315.
- Radiator-core. F. F. Lang. No. 1,394,311; Oct. 18.
- Radiator-core. J. W. Miller. No. 1,394,857; Oct. 25.
- Radiator-core. F. M. Opitz. No. 1,381,655; June 14; v. 287; p. 304.
- Radiator-core. W. Sackren. No. 1,393,042; Oct. 11.
- Radiator-cores, Constructing and assembling. T. N. Coffelder. No. 1,367,019; Feb. 1; v. 283; p. 27.
- Radiator-cover. B. Forthman. No. 1,401,064; Dec. 20.
- Radiator-cover. H. Lang. No. 1,372,302; Mar. 22; v. 284; p. 653.
- Radiator-cover. H. G. Lapsley. No. 1,399,435; Dec. 6.
- Radiator-cover. O. A. Larson and C. J. Talliss. No. 1,401,339; Dec. 27.
- Radiator-cover. E. R. Mertens. No. 1,379,412; May 24; v. 286; p. 760.
- Radiator cover, Automobile-. M. Ziegler. No. 1,375,198; Apr. 19; v. 285; p. 455.
- Radiator cross-member support. D. M. White. No. 1,366,228; Jan. 18; v. 282; p. 506.
- Radiator-dampers, Automatic thermostatic safety device in connection with. W. M. Fulton. No. 1,364,927; Jan. 11; v. 282; p. 213.
- Radiator, Demountable-tube. C. L. Cessna and J. V. Warden. No. 1,370,186; Mar. 1; v. 284; p. 82.
- Radiator, Electric-heated thermosiphon-. G. Monte. No. 1,378,552; May 17; v. 286; p. 524.
- Radiator, Engine-. C. De W. Wagner. No. 1,381,604; June 14; v. 287; p. 294.
- Radiator-filler cap. E. J. Farkas. No. 1,393,992; Oct. 18.
- Radiator for motor-vehicles. C. W. E. Clarke. No. 1,390,274; Sept. 13; v. 290; p. 236.
- Radiator, Gas-. T. J. Potter. No. 1,368,571; Feb. 15; v. 283; p. 436.
- Radiator, Gas-. M. Vasselon. No. 1,375,987; Apr. 26; v. 285; p. 637.
- Radiator-guard. R. H. Wilson. No. 1,388,908; Aug. 30; v. 289; p. 819.
- Radiator-heater. J. W. Davis and J. W. Osborne. No. 1,390,887; Sept. 13; v. 290; p. 359.
- Radiator, Heating-. H. Pickup, Jr. No. 1,371,808; Mar. 15; v. 284; p. 502.
- Radiator heating system. P. J. Coleman. No. 1,386,598; Aug. 9; v. 289; p. 196.
- Radiator-hood. E. C. Freeze. No. 1,391,468; Sept. 20; v. 290; p. 539.
- Radiator, Hot-water. J. N. Hardy, H. D. Wilson, and D. S. Long. No. 1,392,891; Oct. 4.
- Radiator-leaks, Composition for stopping. M. G. Ray. No. 1,377,275; May 10; v. 286; p. 227.
- Radiator, Oil-burner. A. M. Preiss. No. 1,382,853; June 28; v. 287; p. 645.
- Radiator-overflow condenser. L. E. Opie. No. 1,375,413; Apr. 19; v. 285; p. 496.
- Radiator plates, Machine for corrugating. V. Habib and L. Benmayor. No. 1,374,298; Apr. 12; v. 285; p. 219.
- Radiator-plug. C. J. Brown. No. 1,369,882; Mar. 1; v. 284; p. 24.
- Radiator-protector. J. P. Garver. No. 1,399,859; Dec. 13.
- Radiator-protector. T. P. Harris. No. 1,386,174; Aug. 2; v. 289; p. 42.
- Radiator-repair stand. C. A. Kurtz. No. 1,397,931; Nov. 22.
- Radiator-shield. S. Wasserman. No. 1,372,055; Mar. 22; v. 284; p. 605.
- Radiator-shield for motor-vehicles. H. J. Sauvage. No. 1,400,184; Dec. 13.
- Radiator-shutter. L. S. Hanson. No. 1,401,905; Dec. 27.
- Radiator-shutter control, Thermostatic. G. M. Willis. No. 1,368,673; Feb. 15; v. 283; p. 455.
- Radiator, Steam or hot-water. T. E. Murray. No. 1,397,325; Nov. 15.
- Radiator-tanks, Alarm mechanism for. L. C. Gobetz. No. 1,395,271; Nov. 1.
- Radiator-testing apparatus. G. S. Hall. No. 1,384,614; July 12; v. 288; p. 331.
- Radiator-tube and producing same. G. W. Turney. No. 1,395,618; Nov. 1.
- Radiator-tubes, Method and machine for making. C. A. Eligh. No. 1,379,006; May 24; v. 286; p. 684.
- Radiator-tubing. O. Bark. No. 1,377,385; May 10; v. 286; p. 249.
- Radiator unit. J. M. Fedders. No. 1,397,625; Nov. 22.
- Radiator unit. J. M. Fedders. No. 1,400,945; Dec. 20.
- Radiator, Water-cooling. J. Lohn. No. 1,401,164; Dec. 27.
- Radiator water-gage. W. F. Green and L. C. Gates. No. 1,373,129; Mar. 29; v. 284; p. 855.
- Radiator, Water-heating gas-. F. T. Schlottzhauser. No. 1,370,368; Mar. 1; v. 284; p. 116.
- Radiators, Air-circulation-controlling device for automobile-. G. G. Marshall. No. 1,387,062; Aug. 9; v. 289; p. 291.
- Radiators, Air-controlling device for automobile-. G. G. Marshall. No. 1,379,308; May 24; v. 286; p. 741.
- Radiators, Air-flow-controlling mechanism for internal-combustion-engine. L. K. Snell. No. 1,393,917; Oct. 18.
- Radiators, Combined bracket and hanger for. J. W. Farley. No. 1,382,418; June 21; v. 287; p. 508.
- Radiators, Locking-cap for automobile-. E. E. Mack. No. 1,376,560; May 3; v. 286; p. 84.
- Radiators, Making automobile-. L. G. Hanmer. No. 1,369,806; Mar. 1; v. 284; p. 10.
- Radiators, Making cellular elements for. D. M. Livingston. No. 1,377,494; May 10; v. 286; p. 270.
- Radiators, Sealing composition for. G. E. Perkins. No. 1,393,961; Oct. 18.



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- Radiators, Shutter apparatus for. J. F. Raleigh. No. 1,393,161; Oct. 11.
- Radiators, Shutter construction for motor-vehicle. L. A. Menges and W. W. Simpson. No. 1,379,644; May 31; v. 286; p. 879.
- Radiators, Table for automobile-. J. A. Contos. No. 1,382,626; June 28; v. 287; p. 602.
- Radiators, Temperature control for. E. E. Mellenthin. No. 1,389,771; Sept. 6; v. 290; p. 42.
- Radiators, Thermostat for. A. D. Ray. No. 1,396,782; Nov. 15.
- Radiators, Thermostatic signal for automobile-. J. Sahlin. No. 1,372,554; Mar. 22; v. 284; p. 700.
- Radiators, Valve for heating-. V. V. Riesberg. No. 1,384,486; July 12; v. 288; p. 304.
- Radiators, Vent for steam-. W. H. Cotton and C. H. Keim. No. 1,365,768; Jan. 18; v. 282; p. 416.
- Radiators, Water-reservoir for automobile-. F. Billington. No. 1,401,513; Dec. 27.
- Radio and ignition systems, Connecting means for induction-coils used in. S. C. McKeown. No. 1,385,566; July 26; v. 288; p. 683.
- Radio apparatus. T. Appleby and L. M. Knoll. No. 1,365,579; Jan. 11; v. 282; p. 340.
- Radio apparatus, Shielding. L. A. Hazeltine. No. 1,379,184; May 24; v. 286; p. 717.
- Radio communication, System of. E. F. W. Alexanderson. No. 1,400,847; Dec. 20.
- Radio-communication transmitter. R. E. Thompson. No. 1,380,872; June 7; v. 287; p. 105.
- Radiodynamic control, System of. J. H. Hammond, Jr. No. 1,399,254; Dec. 6.
- Radiodynamic receiving systems, Means for changing the intensity of signals in. E. L. Chaffee. No. 1,399,251; Dec. 6.
- Radio energy, System for controlling moving bodies by. J. H. Hammond, Jr. No. 1,390,288; Sept. 13; v. 290; p. 238.
- Radio interference-preventer. T. M. Libby. No. 1,365,926; Jan. 18; v. 282; p. 448.
- Radio-receiving antenna. S. C. Hooper and G. H. Clark. No. 1,379,262; May 24; v. 286; p. 732.
- Radio-receiving system. E. F. W. Alexanderson. No. 1,373,931; Apr. 5; v. 285; p. 108.
- Radio-receiving system. E. F. W. Alexanderson. No. 1,375,992; Apr. 26; v. 285; p. 638.
- Radio receiving system. H. H. Beverage. No. 1,381,089; June 7; v. 287; p. 147.
- Radio receiving system. V. Bush. No. 1,389,026; Aug. 30; v. 289; p. 843.
- Radio-receiving system. A. M. Curtis. No. 1,376,679; May 3; v. 286; p. 56.
- Radio receiving system. A. N. Goldsmith and J. Weinberger. No. 1,396,571; Nov. 8.
- Radio-receiving system. J. Mills. No. 1,385,090; July 19; v. 288; p. 510.
- Radio-receiving system. W. C. White. No. 1,365,576; Jan. 11; v. 282; p. 339.
- Radio system. L. M. Knoll. No. 1,394,026; Oct. 18.
- Radio telegraphic receiving system. H. Pratt. No. 1,367,165; Feb. 1; v. 283; p. 56.
- Radio telegraphic and telephonic apparatus. H. S. D. Donisthorpe. No. 1,388,936; Aug. 30; v. 289; p. 824.
- Radio telegraphy and telephony, System of. J. H. Hammond, Jr. No. 1,372,425; Mar. 22; v. 284; p. 676.
- Radio-transmitter. C. L. Farrand. No. 1,385,818; July 26; v. 288; p. 735.
- Radiocontrol, System of. J. H. Hammond, Jr. No. 1,370,688; Mar. 8; v. 284; p. 223.
- Radiodirective control, System of. J. H. Hammond, Jr. No. 1,387,850; Aug. 16; v. 289; p. 499.
- Radioreceiving apparatus. H. K. Sandell. No. 1,366,953; Feb. 1; v. 283; p. 14.
- Radioreceiving-stations, Reduction of static interference in. A. M. Curtis. No. 1,371,228; Mar. 15; v. 284; p. 387.
- Radioreceiving system. H. D. Arnold. No. 1,367,224; Feb. 1; v. 283; p. 68.
- Radioreceiving system. R. H. Marriott. No. 1,371,567; Mar. 15; v. 284; p. 456.
- Radiorepeating system. L. Espenschied. No. 1,397,093; Nov. 15.
- Radiosignaling apparatus. W. R. Davis. No. 1,387,885; Aug. 16; v. 289; p. 506.
- Radiosignaling apparatus. R. A. Weagant. No. 1,389,800; Sept. 6; v. 290; p. 48.
- Radiosignaling apparatus. W. and P. Dubilier. No. 1,382,177; June 21; v. 287; p. 462.
- Radiosignaling system. R. C. Clinker. No. 1,386,840; Aug. 9; v. 289; p. 246.
- Radiosignaling system. J. H. Rogers. No. 1,387,736; Aug. 16; v. 289; p. 734.
- Radiosignaling system. J. H. Rogers. No. 1,395,454; Nov. 1.
- Radiotelegraphic and radiotelephonic signals, Device for receiving. C. Bardeloni. No. 1,381,692; June 14; v. 287; p. 312.
- Radiotelegraphic signals, Recording apparatus for. A. E. Blondel. No. 1,400,517; Dec. 20.
- Radiotelegraphy. L. E. Fuller. No. 1,365,977; Jan. 18; v. 282; p. 457.
- Radiotelegraphy, Cut-in system of. P. Ware. No. 1,379,144; May 24; v. 286; p. 710.
- Radiotelegraphy. H. F. Elliott. No. 1,399,945; Dec. 13.
- Radiotelephony. C. R. Englund. (Reissue.) No. 15,089; Apr. 19; v. 285; p. 544.
- Radiotelephony, Multiplex. J. H. Hammond, Jr. No. 1,372,426; Mar. 22; v. 284; p. 676.
- Radiotransmission, Power modulation for. R. A. Heising. No. 1,383,807; July 5; v. 288; p. 114.
- Radiotransmission, Power-modulator for. H. D. Arnold. No. 1,375,481; Apr. 19; v. 285; p. 509.
- Radium hydro-emanometer. G. Kunkle. No. 1,395,120; Oct. 25.
- Radium luminous article and producing same. E. O'Hara. No. 1,364,950; Jan. 11; v. 282; p. 218.
- Radium luminous article and producing same. E. O'Hara. No. 1,364,951; Jan. 11; v. 282; p. 219.
- Radium-rod, Adjustable. E. H. Wagner. No. 1,398,820; Nov. 29.
- Radium-rod brace. A. G. Davis. No. 1,374,829; Apr. 12; v. 285; p. 321.
- Radium-rod connection. A. G. Best. No. 1,397,157; Nov. 15.
- Radium-rod construction. A. R. Brocksmith. No. 1,383,521; July 5; v. 288; p. 54.
- Radium-rod, Safety. B. B. Keller. No. 1,374,016; Apr. 5; v. 285; p. 124.
- Rail-anchor. A. R. Barnett. No. 1,373,218; Mar. 29; v. 284; p. 874.
- Rail-clamp. J. J. Branagan. No. 1,373,592; Apr. 5; v. 285; p. 41.
- Rail. J. Clancy. No. 1,401,139; Dec. 27.
- Rail. H. O. Conger and C. W. McCue. No. 1,378,767; May 17; v. 286; p. 566.
- Rail. R. Felbelmann. No. 1,395,805; Nov. 1.
- Rail-anchor. W. A. R. Angus. No. 1,401,856; Dec. 27.
- Rail-anchor. O. R. Barnett. No. 1,392,288; Oct. 4.
- Rail-anchor. L. J. Berkeley. No. 1,379,383; May 24; v. 286; p. 755.
- Rail-anchor. L. J. Berkeley. No. 1,379,384; May 24; v. 286; p. 756.
- Rail-anchor. J. M. Fair. No. 1,364,263; Jan. 4; v. 282; p. 42.
- Rail-anchor. R. Faries. No. 1,392,407; Oct. 4.
- Rail-anchor. H. G. Gillmor. No. 1,376,526; May 3; v. 286; p. 28.
- Rail-anchor. F. A. Poor. No. 1,386,800; Aug. 9; v. 289; p. 238.
- Rail-anchor. H. G. Warr. No. 1,368,979; Feb. 15; v. 283; p. 514.
- Rail-anchor. H. G. Warr. No. 1,368,980; Feb. 15; v. 283; p. 514.
- Rail-anchor. H. G. Warr. No. 1,372,852; Mar. 29; v. 284; p. 800.
- Rail-anchor. H. G. Warr. No. 1,376,490; May 3; v. 286; p. 21.
- Rail-anchor. H. G. Warr. No. 1,389,721; Sept. 6; v. 290; p. 33.
- Rail-anchor. B. Wolhaupter. No. 1,368,314; Feb. 15; v. 283; p. 385.
- Rail-anchor. B. Wolhaupter. No. 1,385,936; July 26; v. 288; p. 757.
- Rail-anchor, Tie-plate. E. L. Van Dresar. No. 1,398,478; Nov. 29.
- Rail-anchor, Welded. B. Wolhaupter. No. 1,369,208; Feb. 22; v. 283; p. 598.
- Rail-anchor, Welded. B. Wolhaupter. (Reissue.) No. 15,131; June 21; v. 287; p. 546.
- Rail-anchor, Welded. B. Wolhaupter. (Reissue.) No. 15,132; June 21; v. 287; p. 546.
- Rail-anchor. B. Wolhaupter. No. 1,382,335; June 21; v. 287; p. 492.
- Rail-anchor, Welded. B. Wolhaupter. (Reissue.) Nos. 15,215-16; Oct. 25.
- Rail-anchors, Rolling. B. Wolhaupter. No. 1,371,288; Mar. 15; v. 284; p. 399.
- Rail-antispredding device. N. E. Basler. No. 1,387,340; Aug. 9; v. 289; p. 345.
- Rail-bar, Angle. W. G. Wilson. No. 1,370,390; Mar. 1; v. 284; p. 120.
- Rail-bond. J. R. Brown. No. 1,376,396; May 3; v. 286; p. 4.
- Rail-bond. H. H. Febrey. No. 1,394,818; Oct. 25.
- Rail-bond. J. A. Frauenheim and H. Etheridge. No. 1,377,246; May 10; v. 286; p. 222.
- Rail-bond protector. M. T. Stanton. No. 1,390,468; Sept. 13; v. 290; p. 273.
- Rail-bond remover. J. W. Nichols. No. 1,873,017; Mar. 29; v. 284; p. 834.
- Rail-bonds, Manufacturing. W. P. Bovard. No. 1,394,604; Oct. 25.
- Rail-bonds, Manufacturing. H. V. Linderman. No. 1,369,927; Mar. 1; v. 284; p. 33.
- Rail-brace. B. T. Gibbs, Jr. No. 1,365,680; Jan. 18; v. 282; p. 398.
- Rail-brace. B. T. Gibbs, Jr. No. 1,370,302; Mar. 1; v. 284; p. 104.
- Rail brace-plate, Adjustable-guard. B. T. Gibbs, Jr. No. 1,376,525; May 3; v. 286; p. 28.
- Rail-chair. D. Ambrose. No. 1,391,658; Sept. 27; v. 290; p. 651.
- Rail-chair. J. B. Arends. No. 1,368,012; Feb. 8; v. 283; p. 278.
- Rail-chair. C. Malitch. No. 1,390,919; Sept. 13; v. 290; p. 365.



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- Rail-chair. O. K. Morgan. No. 1,369,183; Feb. 22; v. 283; p. 593.
- Rail-chair. W. F. Parham. No. 1,394,638; Oct. 25.
- Rail-chair. C. Pascal. No. 1,399,572; Dec. 6.
- Rail chair and antispreading device, Combined. W. J. Thebault. No. 1,379,661; May 31; v. 286; p. 882.
- Rail-chair, Anticreeping. S. Wrubel. No. 1,380,284; May 31; v. 286; p. 999.
- Rail clamp. S. L. Gerwig. No. 1,383,930; July 5; v. 288; p. 139.
- Rail-clamp. W. F. Morrison. No. 1,375,310; Apr. 19; v. 285; p. 477.
- Rail-clamp. F. Waschek. No. 1,392,030; Sept. 27; v. 290; p. 727.
- Rail-clamp. J. C. and G. C. Zwart. No. 1,381,955; June 21; v. 287; p. 422.
- Rail-clamp and metallic tie. S. Kriska. No. 1,383,406; July 5; v. 288; p. 31.
- Rail clamp, Extension-. H. F. Heumann. No. 1,370,537; Mar. 8; v. 284; p. 193.
- Rail-cleaning machine. A. Wettervik. No. 1,372,212; Mar. 22; v. 284; p. 635.
- Rail, Compound. F. L. Montgomery. No. 1,364,204; Jan. 4; v. 282; p. 30.
- Rail connecting and supporting means. J. H. Jennings. No. 1,382,424; June 21; v. 287; p. 510.
- Rail connection. N. S. Kemp and H. J. Kauth. No. 1,396,043; Nov. 8.
- Rail, Continuous. W. J. Girard. No. 1,384,253; July 12; v. 288; p. 255.
- Rail crossing, Continuous. H. B. Christopher. No. 1,370,410; Mar. 1; v. 284; p. 124.
- Rail crossing, Continuous. C. M. Rihn. No. 1,364,315; Jan. 4; v. 282; p. 52.
- Rail crossing, Continuous. J. M. and W. Rihn. No. 1,378,277; May 17; v. 286; p. 472.
- Rail-crossing, Shockless. E. L. V. Howell. No. 1,396,686; Nov. 8.
- Rail-clip. J. W. Brundage. No. 1,364,975; Jan. 11; v. 282; p. 223.
- Rail-drill. A. Handy and C. E. Krueger. No. 1,381,919; June 21; v. 287; p. 415.
- Rail drill, Independent feed. W. F. McCarty. No. 1,382,433; June 21; v. 287; p. 512.
- Rail-drill, Portable. J. J. Lonsway. No. 1,380,991; June 7; v. 287; p. 128.
- Rail, Electric third-. A. K. H. Bjorge. No. 1,388,088; Aug. 16; v. 289; p. 545.
- Rail-end-supporting rail-joint. B. Wolhaupter. No. 1,394,598; Oct. 25.
- Rail-engaging brake. R. Jones. No. 1,388,047; Aug. 16; v. 289; p. 537.
- Rail, Extension-. T. Quinn. No. 1,392,353; Oct. 4.
- Rail-fastener. G. C. Eichensehr and J. E. Niesner. No. 1,383,089; June 28; v. 287; p. 690.
- Rail-fastener. F. Hazner and L. Gasiorok. No. 1,387,052; Aug. 9; v. 289; p. 289.
- Rail-fastener. E. L. Knight. No. 1,367,401; Feb. 1; v. 283; p. 103.
- Rail-fastener. J. Kordyl. No. 1,372,519; Mar. 22; v. 284; p. 694.
- Rail-fastener. A. N. Menser. No. 1,378,366; May 17; v. 286; p. 488.
- Rail-fastener. J. B. Respass. No. 1,395,596; Nov. 1.
- Rail-fastener. H. C. Sickmann. No. 1,389,705; Sept. 6; v. 290; p. 29.
- Rail-fastening. F. C. Stowell. No. 1,367,897; Feb. 8; v. 283; p. 257.
- Rail-fastening means. E. I. Dodds. No. 1,399,011; Dec. 6.
- Rail holder, Slide. J. E. Wilson. No. 1,376,128; Apr. 26; v. 285; p. 665.
- Rail-joint. F. O. Canella. No. 1,378,009; May 17; v. 286; p. 421.
- Rail-joint. M. L. Cochran and M. E. Wood. No. 1,396,558; Nov. 8.
- Rail-joint. A. E. Crouch. No. 1,366,248; Jan. 18; v. 282; p. 510.
- Rail-joint. G. A. Delissio. No. 1,386,847; Aug. 9; v. 289; p. 247.
- Rail-joint. H. E. Doerr. No. 1,393,764; Oct. 18.
- Rail-joint. T. Dougherty. No. 1,383,086; June 28; v. 287; p. 688.
- Rail-joint. E. C. Fields. No. 1,380,369; June 7; v. 287; p. 10.
- Rail-joint. M. Grisak. No. 1,364,750; Jan. 4; v. 282; p. 135.
- Rail-joint. F. C. Hartwig. No. 1,373,240; Mar. 29; v. 284; p. 878.
- Rail-joint. H. B. Kaehn. No. 1,382,291; June 21; v. 287; p. 484.
- Rail-joint. H. O. Kammerdeiner. No. 1,389,448; Aug. 30; v. 289; p. 926.
- Rail-joint. J. Katcher. No. 1,382,511; June 21; v. 287; p. 526.
- Rail-joint. I. L. King. No. 1,380,976; June 7; v. 287; p. 126.
- Rail-joint. E. F. Levaire. No. 1,396,272; Nov. 8.
- Rail-joint. C. H. Little. No. 1,390,914; Sept. 13; v. 290; p. 364.
- Rail-joint. G. S. Murphy. No. 1,365,941; Jan. 18; v. 282; p. 451.
- Rail-joint. A. J. Neafie. No. 1,399,269; Dec. 6.
- Rail-joint. E. L. Nylund. No. 1,397,107; Nov. 15.
- Rail-joint. D. P. Parker. No. 1,392,790; Oct. 4.
- Rail-joint. J. C. Peppers. No. 1,377,272; May 10; v. 286; p. 226.
- Rail-joint. L. Pleshe. No. 1,395,136; Oct. 25.
- Rail-joint. J. W. Reynolds and F. Derowitsch. No. 1,365,789; Jan. 18; v. 282; p. 421.
- Rail-joint. M. G. Stackhouse. No. 1,388,779; Aug. 23; v. 289; p. 738.
- Rail-joint. A. L. Stewart. No. 1,366,845; Jan. 25; v. 282; p. 672.
- Rail-joint. S. F. Stillwell. No. 1,401,827; Dec. 27.
- Rail-joint. J. Vass. No. 1,388,445; Aug. 23; v. 289; p. 674.
- Rail-joint. J. W. Webb. No. 1,371,585; Mar. 15; v. 284; p. 459.
- Rail-joint. A. J. Wilkins. No. 1,391,438; Sept. 20; v. 290; p. 533.
- Rail-joint. W. Zitella. No. 1,383,050; June 28; v. 287; p. 684.
- Rail-joint. J. Zygmant. No. 1,385,197; July 19; v. 288; p. 533.
- Rail-joint-adjusting device. F. V. Carman. No. 1,373,598; Apr. 5; v. 285; p. 42.
- Rail joint and bond. C. L. Carlsson. No. 1,383,074; June 28; v. 287; p. 687.
- Rail-joint and fastener therefor. J. Bakovich. No. 1,374,804; Apr. 12; v. 285; p. 317.
- Rail-joint box. G. W. Brant. No. 1,386,685; Aug. 9; v. 289; p. 214.
- Rail-joint chair. J. A. Bridge. No. 1,385,426; July 26; v. 288; p. 654.
- Rail-joint closer. I. Naylor and J. C. Tucker. No. 1,390,153; Sept. 6; v. 289; p. 120.
- Rail-joint fastener. A. Letko. No. 1,391,130; Sept. 20; v. 290; p. 470.
- Rail-joint fastener. J. Meszaros. No. 1,387,504; Aug. 16; v. 289; p. 429.
- Rail-joint for U-rail sections. G. W. Whiteman. No. 1,388,134; Aug. 16; v. 289; p. 554.
- Rail-joint, Insulated. C. A. Disbrow. No. 1,369,225; Feb. 22; v. 283; p. 602.
- Rail-joint, Insulated. C. A. Disbrow. No. 1,369,226; Feb. 22; v. 283; p. 602.
- Rail-joints, Angle-bar for. W. E. Gauntt. No. 1,374,497; Apr. 12; v. 285; p. 257.
- Rail-joints, Construction for. W. P. Thomson. No. 1,374,782; Apr. 12; v. 285; p. 312.
- Rail-joints, Manufacture of splice-bars for. R. J. McComb. No. 1,373,749; Apr. 5; v. 285; p. 71.
- Rail-joints, Means for lubricating. B. Wolhaupter. No. 1,394,597; Oct. 25.
- Rail, Prayer-. J. J. McCann. No. 1,394,919; Oct. 25.
- Rail, Reversible switch-. R. N. Riblet. No. 1,373,637; Apr. 5; v. 285; p. 50.
- Rail-seat, tie-plate, and rail-tie clamp, Combination. J. W. Kummer. No. 1,380,979; June 7; v. 287; p. 126.
- Rail-section, Adjustable-switch-point. P. Camell. No. 1,372,935; Mar. 29; v. 284; p. 818.
- Rail-securing device. F. G. Milliken. No. 1,377,424; May 10; v. 286; p. 256.
- Rail spike. E. F. Fallon. No. 1,373,875; Apr. 5; v. 285; p. 97.
- Rail-splice. H. R. Mulzer. No. 1,369,697; Feb. 22; v. 283; p. 693.
- Rail system. D. Short. No. 1,379,580; May 24; v. 286; p. 792.
- Rail-tie. C. Somershoe. No. 1,370,376; Mar. 1; v. 284; p. 117.
- Rail tie and clamp. O. R. Van Sickle. No. 1,381,145; June 14; v. 287; p. 210.
- Rail tie and fastener. J. C. Bott. No. 1,395,172; Oct. 25.
- Rail tie and fastener. S. Suhajda, K. Adamowski, T. J. Adamowski, and J. W. Kurey. No. 1,370,163; Mar. 1; v. 284; p. 77.
- Rail-tie, Metal. J. K. Wedgworth. No. 1,399,909; Dec. 13.
- Rails, Antispreading device for. M. Jicha. No. 1,394,734; Oct. 25.
- Rails, Combination tie-plate and anticreeper for. M. Overstrud. No. 1,397,776; Nov. 22.
- Rails, Connecting. J. C. H. Lubken. No. 1,374,381; Apr. 12; v. 285; p. 234.
- Rails, Fastening means for vignole. E. F. Levaire. No. 1,396,271; Nov. 8.
- Rails, Generating set movable upon. A. Collet. No. 1,387,431; Aug. 9; v. 289; p. 363.
- Rails or heavy bodies to concrete sleepers, walls, or floors. Means for securing. D. H. Stent. No. 1,398,748; Nov. 29.
- Rails, Signal-operator for spreading. C. L. Finch. No. 1,383,093; June 28; v. 287; p. 691.
- Rails, Support for third. T. W. Casey. No. 1,389,124; Aug. 30; v. 289; p. 862.
- Rails, switch-points, frogs, and crossings. N. H. Bray. No. 1,395,474; Nov. 1.
- Railing, gate, grille, &c. M. Lachman. No. 1,396,442; Nov. 8.
- Railway. M. A. Patton. No. 1,375,726; Apr. 26; v. 285; p. 588.
- Railway accessory. H. E. Billman. No. 1,389,617; Sept. 6; v. 290; p. 11.
- Railway and like vehicles, Continuous automatic fluid-pressure brake for. A. M. Bell. No. 1,387,035; Aug. 9; v. 289; p. 285.



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- Railway and other vehicles, Automatic coupling for. F. W. Atkinson. No. 1,366,237; Jan. 18; v. 282; p. 508.
- Railway appliance. J. Rick and J. Motowski. No. 1,382,240; June 21; v. 287; p. 474.
- Railway-artillery. G. R. Lukesh. No. 1,397,488; Nov. 15.
- Railway-axles, Lateral-thrust-bearing appliance for. W. E. Woodard. No. 1,380,456; June 7; v. 287; p. 25.
- Railway-ballast, Machine for cleaning. H. D. Pratt. (Reissue.) No. 15,195; Sept. 13; v. 290; p. 378.
- Railway-brake. T. Miyagi. No. 1,397,443; Nov. 15.
- Railway-brake. J. E. Scott. No. 1,374,034; Apr. 5; v. 285; p. 127.
- Railway-brake. H. S. Votaw. No. 1,391,224; Sept. 20; v. 290; p. 489.
- Railway-brake hanger. J. M. Summers. No. 1,385,850; July 26; v. 288; p. 741.
- Railway-brake hanger. J. M. Summers. No. 1,385,851; July 26; v. 288; p. 741.
- Railway-brake indicator. B. Haskell. No. 1,391,895; Sept. 20; v. 290; p. 698.
- Railway-brakes, Automatic slack-adjuster for. K. A. Beckman. No. 1,377,386; May 10; v. 286; p. 249.
- Railway bumper-block. C. Roberts. No. 1,400,989; Dec. 20.
- Railway-bridges, Guard-rail for. W. H. Ellis. No. 1,366,641; Jan. 25; v. 282; p. 632.
- Railway-car brake. J. Wisniewski. No. 1,388,682; Aug. 23; v. 289; p. 719.
- Railway-car end. G. A. Woodman. No. 1,392,472; Oct. 4.
- Railway-cars, Hand-brake for. J. F. O'Connor. No. 1,383,333; July 5; v. 288; p. 15.
- Railway-cars of the dumping type, Reinforced door for. G. G. Gilpin. No. 1,380,055; May 31; v. 286; p. 956.
- Railway-cars, Pipe carrier for. W. Kelso. No. 1,366,187; Jan. 18; v. 282; p. 497.
- Railway-cars, Tandem draft-gear for. J. F. O'Connor. No. 1,382,221; June 21; v. 287; p. 470.
- Railway-cars, Unloading-machine for. W. F. Webb. No. 1,368,081; Feb. 8; v. 283; p. 291.
- Railway-carriage of large capacity. G. Pereire and G. Jolivet. No. 1,392,523; Oct. 4.
- Railway-carriages of large capacity, Construction of the permanent way for. G. Pereire and G. Jolivet. No. 1,385,269; July 19; v. 288; p. 546.
- Railway construction. J. Gazo. No. 1,401,068; Dec. 20.
- Railway construction. A. R. Gonzalez. No. 1,390,203; Sept. 6; v. 290; p. 129.
- Railway construction. W. M. Purvis. No. 1,365,848; Jan. 18; v. 282; p. 432.
- Railway control system. W. B. Murray. No. 1,396,870; Nov. 15.
- Railway controlling device. A. H. Fox and A. W. Lenderoth. No. 1,371,675; Mar. 15; v. 284; p. 476.
- Railway-crossing. S. Balkwill. No. 1,367,004; Feb. 1; v. 283; p. 24.
- Railway-crossing. R. E. Bowen. No. 1,381,787; June 14; v. 287; p. 330.
- Railway-crossing. J. F. Brady. No. 1,399,289; Dec. 6.
- Railway-crossing. A. Dinger. No. 1,371,872; Mar. 15; v. 284; p. 513.
- Railway-crossing. B. T. Gibbs, Jr. No. 1,395,339; Nov. 1.
- Railway-crossing. C. V. Houk and T. W. Berry. No. 1,389,560; Aug. 30; v. 289; p. 948.
- Railway-crossing. E. Knauer. No. 1,364,938; Jan. 11; v. 282; p. 216.
- Railway-crossing. L. G. McKam. No. 1,372,889; Mar. 29; v. 284; p. 808.
- Railway-crossing. A. M. Ritchey. No. 1,401,191; Dec. 27.
- Railway-crossing. W. G. Stockham. No. 1,380,433; June 7; v. 287; p. 20.
- Railway-crossing. C. H. White. No. 1,374,415; Apr. 12; v. 285; p. 242.
- Railway-crossing. C. A. Zobel. No. 1,383,899; June 5; v. 288; p. 133.
- Railway-crossing. L. Zurcan. No. 1,386,670; Aug. 9; v. 289; p. 211.
- Railway-crossing apparatus. C. Schwartz. No. 1,389,535; Aug. 30; v. 289; p. 944.
- Railway-crossing, Automatic noiseless. T. Spaulding. No. 1,367,837; Feb. 8; v. 283; p. 246.
- Railway-crossing gate. L. Davidson. No. 1,374,828; Apr. 12; v. 285; p. 321.
- Railway-crossing gate. S. L. Jones. No. 1,396,635; Nov. 8.
- Railway-crossing gates, Signal for. E. O. Noeske. No. 1,374,027; Apr. 5; v. 285; p. 126.
- Railway-crossing, Safety-gate for. J. W. Oelenschlaeger and V. B. Arkless. No. 1,382,534; June 21; v. 287; p. 530.
- Railway-crossing, Sectional. R. P. Weaver. No. 1,391,227; Sept. 20; v. 290; p. 490.
- Railway-crossing signal. A. Berg. No. 1,392,104; Sept. 27; v. 290; p. 741.
- Railway-crossing signal. G. C. Bronson and M. C. St. Clair. No. 1,388,166; Aug. 23; v. 289; p. 617.
- Railway-crossing signal. F. E. and B. R. Brown. No. 1,364,179; Jan. 4; v. 282; p. 26.
- Railway-crossing signal. R. E. Driscoll. (Reissue.) No. 15,023; Jan. 11; v. 281; p. 352.
- Railway-crossing signal. G. A. Miller. No. 1,370,831; Mar. 8; v. 284; p. 250.
- Railway-crossing signal. H. J. Riddout. No. 1,400,458; Dec. 13.
- Railway-crossing signal. T. W. Varley and W. C. Nein. No. 1,390,067; Sept. 6; v. 290; p. 103.
- Railway-crossings, Automatic safety-gate for. C. Enache. No. 1,394,813; Oct. 25.
- Railway-crossings, Cattle-guard for. J. Ihnat. No. 1,391,384; Sept. 20; v. 290; p. 522.
- Railway-crossings, Signal device for. L. P. V. Williams. No. 1,394,385; Oct. 18.
- Railway-crossover. J. B. Strong. No. 1,382,868; June 28; v. 287; p. 648.
- Railway cross-tie. J. W. Hulbert. No. 1,376,769; May 3; v. 286; p. 73.
- Railway cross-tie and rail-fastening, Metallic. O. J. Bostrom, E. E. Waltman, and R. F. Zingsheim. No. 1,364,067; Jan. 4; v. 282; p. 3.
- Railway draft-gear yoke. H. T. Anderson. No. 1,401,749; Dec. 27.
- Railway draft-rigging. A. Campbell. No. 1,398,674; Nov. 29.
- Railway draft-rigging. W. H. Miner and J. F. O'Connor. No. 1,391,067; Sept. 20; v. 290; p. 458.
- Railway draft-rigging. J. F. O'Connor. No. 1,374,676; Apr. 12; v. 285; p. 292.
- Railway draft-rigging. J. F. O'Connor. No. 1,391,068; Sept. 20; v. 290; p. 458.
- Railway draft-rigging. J. F. O'Connor. No. 1,391,069; Sept. 20; v. 290; p. 458.
- Railway-flagman's carriage. F. A. W. Davis. No. 1,395,559; Nov. 1.
- Railway-frog. N. A. Cortese. No. 1,398,420; Nov. 29.
- Railway-frog. R. E. Keough. No. 1,389,144; Aug. 30; v. 289; p. 866.
- Railway-gate. B. E. Bartholomew. No. 1,398,001; Nov. 22.
- Railway-gate. D. Hryniewich. No. 1,385,787; July 26; v. 288; p. 728.
- Railway-gate. L. Miller and W. J. Griffith. No. 1,386,581; Aug. 2; v. 289; p. 120.
- Railway-gate. T. M. Spurlock and J. A. Sprague. No. 1,383,437; July 5; v. 288; p. 37.
- Railway gate and signal apparatus, Automatic. N. P. Theofilos. No. 1,401,375; Dec. 27.
- Railway-gate, Automatic. F. Majchrowicz. No. 1,391,397; Sept. 20; v. 290; p. 525.
- Railway-gate, Automatic. J. R. McGee. No. 1,389,256; Aug. 30; v. 289; p. 888.
- Railway-gate, Pneumatic. R. De Simone. No. 1,388,101; Aug. 16; v. 289; p. 547.
- Railway-joint expansion-jack. J. E. McNell. No. 1,378,479; May 17; v. 286; p. 510.
- Railway-joint lock. W. M. Read. No. 1,367,832; Feb. 8; v. 283; p. 245.
- Railway journal-box. H. C. Stokes. No. 1,375,239; Apr. 19; v. 285; p. 463.
- Railway-journal-box jack. J. L. Hawley. No. 1,391,382; Sept. 20; v. 290; p. 521.
- Railway mail-transferring device. P. A. Lindberg. No. 1,398,136; Nov. 22.
- Railway-metal-tie appliance. C. Bradley. No. 1,387,462; Aug. 16; v. 289; p. 420.
- Railway, Monorail. A. F. Lee. No. 1,376,444; May 3; v. 286; p. 13.
- Railway, Pleasure. H. E. Riehl. No. 1,399,577; Dec. 6.
- Railway, Pleasure. G. A. Schmidt. No. 1,395,657; Nov. 1.
- Railway-rail. J. Lundie and W. R. Dunham, Jr. No. 1,380,725; June 7; v. 287; p. 76.
- Railway-rail anchor. R. A. Blair. No. 1,384,117; July 12; v. 288; p. 227.
- Railway rail and gage joint. C. E. Brown. No. 1,370,582; Mar. 8; v. 284; p. 202.
- Railway rail and tie fastener bed-plate and anti-creeping device. O. H. McConoughey. No. 1,398,385; Nov. 29.
- Railway-rail brace. C. R. McMichael and B. W. Wall. No. 1,388,734; Aug. 23; v. 289; p. 729.
- Railway-rail fastening. J. A. Silver. No. 1,386,536; Aug. 2; v. 289; p. 112.
- Railway-rail joint. F. R. Bowlby. No. 1,390,489; Sept. 13; v. 290; p. 278.
- Railway-rail joint. J. Demeter. No. 1,391,465; Sept. 20; v. 290; p. 538.
- Railway-rail joint. C. C. Hunsaker. No. 1,365,105; Jan. 11; v. 282; p. 248.
- Railway-rail joint. J. A. Hyle. No. 1,388,184; Aug. 23; v. 289; p. 620.
- Railway-rail joint, Base-supported. A. Johnsen. No. 1,400,291; Dec. 13.
- Railway-rail support. P. Jarnowski. No. 1,399,123; Dec. 6.
- Railway-rail wearing-plate and connection. E. G. Wallinder. No. 1,376,488; May 3; v. 286; p. 21.
- Railway-rails, anticreeping device for. R. E. Keough. No. 1,372,956; Mar. 29; v. 284; p. 822.
- Railway-rails, Device for repairing. W. Steckler. No. 1,371,126; Mar. 8; v. 284; p. 305.
- Railway-rails, Splice-plate for. W. L. Fenstermacher. No. 1,368,710; Feb. 15; v. 283; p. 463.
- Railway-rails to sleepers, Means for securing. M. E. Rees. No. 1,377,928; May 10; v. 286; p. 354.
- Railway-rails to their sleepers, Device for securing. E. Bellan and H. L. Lainé. No. 1,395,663; Nov. 1.
- Railway rolling-stock, Pipe-coupling for. J. W. Roberts. No. 1,389,012; Aug. 30; v. 289; p. 840.
- Railway rolling-stock, Swing-truck-yoke support for. J. W. Marsh. No. 1,388,818; Aug. 23; v. 289; p. 746.



- Railway safety appliance. E. E. Beers. No. 1,399,600; Dec. 6.
- Railway safety appliance. E. E. Shear and W. G. Waechter. No. 1,393,173; Oct. 11.
- Railway safety appliance, Automatic. J. H. Munderback. No. 1,400,091; Dec. 13.
- Railway safety-signal. P. Adams. No. 1,391,815; Sept. 27; v. 290; p. 682.
- Railway side-frame and journal-box connection. H. E. Doerr. No. 1,376,684; May 3; v. 286; p. 57.
- Railway-signal. N. L. Harkness. No. 1,397,419; Nov. 15.
- Railway-signal. F. Rome. No. 1,366,134; Jan. 18; v. 282; p. 487.
- Railway signal device. D. J. Allen. No. 1,388,787; Aug. 23; v. 289; p. 740.
- Railway signal-fusee. F. L. Wanklyn. No. 1,367,903; Feb. 8; v. 283; p. 258.
- Railway signal-fusee. F. L. Wanklyn. No. 1,381,371; June 14; v. 287; p. 251.
- Railway signal system. J. L. Woodbridge. No. 1,368,530; Feb. 15; v. 283; p. 428.
- Railway signal-torpedo. E. A. Schooley and W. C. Wilson, Jr. No. 1,388,068; Aug. 16; v. 289; p. 541.
- Railway signal-torpedoes, Making. E. A. Schooley. No. 1,388,067; Aug. 16; v. 289; p. 541.
- Railway signaling. E. P. A. Abric. No. 1,385,295; July 19; v. 288; p. 552.
- Railway signaling. C. W. Dunham. No. 1,380,783; June 7; v. 287; p. 88.
- Railway signaling. C. W. Dunham. No. 1,380,784; June 7; v. 287; p. 88.
- Railway signaling. L. V. Lewis. No. 1,365,329; Jan. 11; v. 282; p. 291.
- Railway signaling. L. V. Lewis. (Reissue.) No. 15,096; Apr. 26; v. 285; p. 715.
- Railway signaling. R. A. McCann. No. 1,377,211; May 10; v. 286; p. 214.
- Railway signaling mechanism. C. R. Beall. No. 1,401,511; Dec. 27.
- Railway signaling system. C. L. Fortescue. No. 1,396,825; Nov. 15.
- Railway signaling system. J. B. Harlow. No. 1,373,503; Apr. 5; v. 285; p. 24.
- Railway signaling system. C. F. Scott. No. 1,396,888; Nov. 15.
- Railway-signaling system. W. C. H. Wefel. No. 1,366,107; Jan. 18; v. 282; p. 482.
- Railways, Signaling system for single-track. N. D. Preston. No. 1,399,725; Dec. 6.
- Railway-sleeper. M. Igarashi. No. 1,366,385; Jan. 25; v. 282; p. 580.
- Railway-sleeper. F. P. A. Rousseau and L. A. Pitot. No. 1,386,954; Aug. 9; v. 289; p. 269.
- Railway sleepers or ties, Elevator and holder for. H. C. Stolle. No. 1,389,393; Aug. 30; v. 289; p. 915.
- Railway snow-flanger. E. R. Packer. No. 1,394,112; Oct. 18.
- Railway-spike. W. C. Clark. No. 1,393,343; Oct. 11.
- Railway-spreader. R. E. Bressler. No. 1,376,510; May 3; v. 286; p. 25.
- Railway-station indicator. T. Davidenia. No. 1,386,606; Aug. 9; v. 289; p. 198.
- Railway street and road crossing. W. P. Ware. No. 1,390,182; Sept. 6; v. 290; p. 126.
- Railway structure, Pleasure. J. A. Miller. No. 1,373,754; Apr. 5; v. 285; p. 72.
- Railway structure, Pleasure. J. A. Miller. No. 1,380,732; June 7; v. 287; p. 77.
- Rail-support. L. Stunkel. No. 1,401,656; Dec. 27.
- Railway, Suspension. J. H. Smith. No. 1,367,788; Feb. 8; v. 283; p. 236.
- Railway-switch. J. Alonzo. No. 1,399,914; Dec. 13.
- Railway-switch. M. Beloff. No. 1,372,476; Mar. 22; v. 284; p. 686.
- Railway-switch. N. W. Chaffin. No. 1,383,188; June 28; v. 287; p. 709.
- Railway-switch. A. Cwojna. No. 1,388,700; Aug. 23; v. 289; p. 722.
- Railway-switch. J. Elder. No. 1,369,733; Feb. 22; v. 283; p. 700.
- Railway-switch, Automatic. H. F. Farmer and J. M. Jones. No. 1,370,419; Mar. 1; v. 284; p. 126.
- Railway-switch, Double-slip. J. C. Mock. No. 1,377,216; May 10; v. 286; p. 215.
- Railway-switch heater. W. T. Lawlor. No. 1,401,798; Dec. 27.
- Railway-switch heater. I. C. Popper. No. 1,396,664; Nov. 8.
- Railway-switch-operating device. J. Bakovich. No. 1,377,452; May 10; v. 286; p. 262.
- Railway-switch-operating device. F. G. Smith. No. 1,371,059; Mar. 8; v. 284; p. 293.
- Railway-switch-operating mechanism. J. R. Dudley. No. 1,397,408; Nov. 15.
- Railway-switch-operating mechanism, Automatic. J. P. Scartaris. No. 1,371,937; Mar. 15; v. 284; p. 526.
- Railway-switch point. E. M. Wilson and E. S. Seaman. No. 1,390,850; Sept. 13; v. 290; p. 351.
- Railway switch-throw and mine switch-throw. D. J. Kelly. No. 1,391,547; Sept. 20; v. 290; p. 555.
- Railway switches and signals, Apparatus for the control of. P. F. Willard. No. 1,380,452; June 7; v. 287; p. 24.
- Railway-switches, Apparatus for the control of. C. R. Beall. No. 1,392,737; Oct. 4.
- Railway-switches, Apparatus for the control of. C. W. Dunham. No. 1,396,562; Nov. 8.
- Railway-switches, Interlocking apparatus for the control of. H. S. Loomis. No. 1,398,785; Nov. 29.
- Railway terminal station. J. J. Coughlin. No. 1,376,407; May 3; v. 286; p. 6.
- Railway-tickets, Machine for printing and issuing. F. L. Fuller. No. 1,392,929; Oct. 11.
- Railway-tie. H. H. Ashlock. No. 1,383,056; June 28; v. 287; p. 684.
- Railway-tie. A. Bernier. No. 1,381,962; June 21; v. 287; p. 423.
- Railway-tie. L. L. Brown. No. 1,385,302; July 19; v. 288; p. 553.
- Railway-tie. A. G. Bryan. No. 1,394,272; Oct. 18.
- Railway-tie. J. D. Bryant. No. 1,375,773; Apr. 26; v. 285; p. 596.
- Railway-tie. J. Farkas. No. 1,367,541; Feb. 8; v. 283; p. 189.
- Railway-tie. L. Fieg. No. 1,396,566; Nov. 8.
- Railway-tie. V. F. Franck. No. 1,400,737; Dec. 20.
- Railway-tie. J. G. Horan. No. 1,394,731; Oct. 25.
- Railway-tie. P. C. Ickes. No. 1,394,624; Oct. 25.
- Railway-tie. J. Johnson and G. C. Cowles. No. 1,371,171; Mar. 8; v. 284; p. 314.
- Railway-tie. H. Jones. No. 1,376,549; May 3; v. 286; p. 32.
- Railway-tie. C. J. Jones. No. 1,383,954; July 5; v. 288; p. 144.
- Railway-tie. J. W. Jordan. No. 1,367,265; Feb. 1; v. 283; p. 76.
- Railway-tie. J. Kelley. No. 1,367,400; Feb. 1; v. 283; p. 103.
- Railway-tie. T. H. Kruse. No. 1,370,025; Mar. 1; v. 284; p. 51.
- Railway-tie. T. H. Kruse. No. 1,370,129; Mar. 1; v. 284; p. 70.
- Railway-tie. U. O. Long. No. 1,366,673; Jan. 25; v. 282; p. 638.
- Railway-tie. C. G. McCown. No. 1,386,718; Aug. 9; v. 289; p. 221.
- Railway-tie. M. Pace. No. 1,400,375; Dec. 13.
- Railway-tie. P. S. Rachwal. No. 1,373,831; Apr. 5; v. 285; p. 88.
- Railway-tie. H. G. Schmitt. No. 1,365,550; Jan. 11; v. 282; p. 333.
- Railway-tie. J. A. Silver. No. 1,378,383; May 17; v. 286; p. 491.
- Railway-tie. L. W. Sweeney. No. 1,381,261; June 14; v. 287; p. 229.
- Railway-tie. W. H. Taylor and W. R. Watts. No. 1,398,119; Nov. 22.
- Railway-tie. G. H. Tomb. No. 1,381,441; June 14; v. 287; p. 264.
- Railway-tie. E. Waters. No. 1,392,376; Oct. 4.
- Railway-tie. H. R. Wherley. No. 1,395,541; Nov. 1.
- Railway-tie. S. Yaskulka. No. 1,369,071; Feb. 22; v. 283; p. 572.
- Railway-tie. W. H. Yerkes. No. 1,364,602; Jan. 4; v. 282; p. 107.
- Railway-tie and fastener. S. Maliczski. No. 1,388,277; Aug. 23; v. 289; p. 640.
- Railway-tie and fastener, Metallic. P. Salamon. No. 1,373,356; Mar. 29; v. 284; p. 901.
- Railway-tie and rail-fastener. C. E. Estabrook. No. 1,382,182; June 21; v. 287; p. 463.
- Railway-tie and rail-fastener. C. E. Estabrook. No. 1,392,562; Oct. 4.
- Railway-tie and rail-fastener, Combination. A. N. Trum-power, Sr. No. 1,377,942; May 10; v. 286; p. 357.
- Railway-tie and rail-locking device. S. Morano. No. 1,381,488; June 14; v. 287; p. 272.
- Railway-tie and rail-securing means. C. F. and F. S. Youberg. No. 1,386,750; Aug. 9; v. 289; p. 227.
- Railway-tie brace. H. C. Bunnell. No. 1,390,756; Sept. 13; v. 290; p. 332.
- Railway-tie, Composite. W. H. Elliott. No. 1,371,358; Mar. 15; v. 284; p. 414.
- Railway-tie, Concrete. W. J. Lankford and W. H. Chappell. No. 1,387,547; Aug. 16; v. 289; p. 438.
- Railway-tie, Metallic. A. F. Brown. No. 1,373,947; Apr. 5; v. 285; p. 111.
- Railway-tie, Metallic. W. B. Gatewood. No. 1,367,183; Feb. 1; v. 283; p. 60.
- Railway-tie, Metallic. H. Jacobs. No. 1,376,279; Apr. 26; v. 285; p. 694.
- Railway tie, Metallic. H. C. Pettengill. No. 1,370,480; Mar. 1; v. 284; p. 138.
- Railway tie-plate. W. M. Osborn. (Reissue.) No. 15,167; July 26; v. 288; p. 767.
- Railway-tie renewer. J. R. Smith. No. 1,381,759; June 14; v. 287; p. 325.
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- Railway-track and rail for the same. C. S. Oldroyd. No. 1,391,547; Sept. 20; v. 290; p. 561.
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- Railway-track construction. J. Juroka. No. 1,377,489; May 10; v. 286; p. 269.



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- Railway-track construction. J. Y. Piscek. No. 1,381,499; June 14; v. 287; p. 274.
- Railway-track construction. P. H. Sampson. No. 1,396,596; Nov. 8.
- Railway-track extension, Means for. J. F. Joy. No. 1,392,648; Oct. 4.
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- Railway-tracks, Means for driving live stock from. W. A. Williams. No. 1,370,252; Mar. 1; v. 284; p. 95.
- Railway-tracks, Safety-indicator for. W. P. Thomson. No. 1,386,290; Aug. 2; v. 289; p. 65.
- Railway-traffic-controlling apparatus. A. V. T. Day. No. 1,393,011; Oct. 11.
- Railway-traffic-controlling apparatus. L. V. Lewis. No. 1,373,086; Mar. 29; v. 284; p. 847.
- Railway-traffic-controlling apparatus. L. V. Lewis. No. 1,377,137; May 3; v. 286; p. 144.
- Railway-traffic-controlling apparatus. L. V. Lewis. No. 1,398,383; Nov. 29.
- Railway-traffic-controlling apparatus. R. A. McCann. No. 1,400,964; Dec. 20.
- Railway train-pipes, Coupling for. E. A. Russell and E. A. Schreiber. No. 1,382,245; June 21; v. 287; p. 475.
- Railway-trains, Adjustable brake arrangement operated by compressed fluid adapted to be used in. G. Drolshammer. No. 1,401,325; Dec. 27.
- Railway-trains at danger-signals, Means for stopping. E. C. Allen. No. 1,386,302; Aug. 2; v. 289; p. 68.
- Railway trains, Block system for electric. A. L. Jones, 2d. No. 1,391,322; Sept. 20; v. 290; p. 510.
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- Railways, Automatic safety appliance for. J. H. Strunk. No. 1,387,331; Aug. 9; v. 289; p. 343.
- Railways, Automatic speed control for. P. J. Simmen. No. 1,383,770; July 5; v. 288; p. 106.
- Railways, Automatic stop mechanism for. R. C. Albury and L. T. Hayman. No. 1,380,174; May 31; v. 286; p. 978.
- Railways, Block-signaling apparatus for. E. Fournier and T. Testu. No. 1,380,890; June 7; v. 287; p. 108.
- Railways, Control-circuits for operating block-signaling devices, &c., upon. J. A. Miller. No. 1,379,592; May 24; v. 286; p. 794.
- Railways, Rail-spiking device for. N. Ekberg. No. 1,395,703; Nov. 1.
- Railways, Safety device for use in connection with guard-rails and switch-frogs on. J. A. Maloy. No. 1,387,732; Aug. 16; v. 289; p. 475.
- Railways, Safety electric signal for. L. Sanchez. No. 1,393,701; Oct. 11.
- Railways, Signal device for miniature electric. R. N. Miller. No. 1,378,421; May 17; v. 286; p. 499.
- Railways, Signal system for. C. F. Shadle. No. 1,397,883; Nov. 22.
- Railways, Signaling system for single-track. N. D. Preston. No. 1,386,073; Aug. 2; v. 289; p. 22.
- Railways, Track construction for. T. H. Love. No. 1,389,202; Aug. 30; v. 289; p. 877.
- Rain-shield. J. Warshawsky. No. 1,391,925; Sept. 27; v. 290; p. 704.
- Raincoat. F. W. Howard. No. 1,374,301; Apr. 12; v. 285; p. 219.
- Raincoat. C. H. Place. No. 1,368,835; Feb. 15; v. 283; p. 487.
- Raisin-cleaner. W. Stoner. No. 1,384,494; July 12; v. 288; p. 305.
- Raisins, Apparatus for cap-stemming. T. B. Hunter. No. 1,393,287; Oct. 11.
- Raising and lowering steps, Automatic. E. B. Reeder. No. 1,397,294; Nov. 15.
- Raising and transporting device. F. Widmer. No. 1,371,961; Mar. 15; v. 284; p. 530.
- Raising device. W. O. Garbeth. No. 1,365,097; Jan. 11; v. 282; p. 246.
- Rake: *See*—  
Adjustable rake. Side-delivery rake.  
Adjustable extension-rake. Side-delivery rotary rake.  
Brick-rake. Tractor push-rake.  
Hay-rake.
- Rake. W. E. Phillips. No. 1,371,112; Mar. 8; v. 284; p. 303.
- Rake. P. Reinwald. No. 1,394,353; Oct. 18.
- Rake. P. Snyder. No. 1,372,464; Mar. 22; v. 284; p. 683.
- Rake and fork, Combined. F. H. Anderson. No. 1,374,800; Apr. 12; v. 285; p. 316.
- Rake or harrow, Rice. F. A. Leas. No. 1,390,208; Sept. 6; v. 290; p. 130.
- Rake with exchangeable prongs. M. Edel. No. 1,385,965; July 26; v. 288; p. 763.
- Rakes, Attachment for lawn. C. G. Lundstrom. No. 1,371,499; Mar. 15; v. 284; p. 442.
- Rakes, Reinforced bow for. G. E. and R. W. Alexander. No. 1,383,182; June 28; v. 287; p. 707.
- Raker-gage. J. J. McDonald. No. 1,366,575; Jan. 25; v. 282; p. 619.
- Raker-gage. G. A. Reinke. No. 1,373,636; Apr. 5; v. 285; p. 49.
- Ram control, Hydraulic. W. W. MacDonald. No. 1,395,001; Oct. 25.
- Ram for raising water, Hydraulic. R. C. Green. No. 1,395,343; Nov. 1.
- Ram, Hydraulic. A. S. Anderson. No. 1,384,421; July 12; v. 288; p. 291.
- Ram, Hydraulic. J. O. Kafader. No. 1,383,143; June 28; v. 287; p. 700.
- Rammer, Pneumatic. T. P. Anthony. No. 1,367,001; Feb. 1; v. 283; p. 24.
- Ramp. F. S. Thayer. No. 1,369,063; Feb. 22; v. 283; p. 570.
- Ramp contact device. F. S. Thayer. No. 1,369,062; Feb. 22; v. 283; p. 570.
- Ramp-rail installation. A. J. Brookins. No. 1,392,111; Sept. 27; v. 290; p. 742.
- Range. E. L. Baker. No. 1,379,954; May 31; v. 286; p. 937.
- Range. W. S. Hadaway, Jr. No. 1,383,109; June 28; v. 287; p. 694.
- Range. H. S. Marvin. No. 1,365,597; Jan. 11; v. 282; p. 343.
- Range and bearing indicator. E. Meitner. No. 1,392,959; Oct. 11.
- Range and kitchen-cabinet and bake-oven, Electric. R. E. Sard and H. P. G. Norstrand. No. 1,365,345; Jan. 11; v. 282; p. 294.
- Range-boiler stand. D. D. Wessels. No. 1,378,299; May 17; v. 286; p. 476.
- Range, Combination coal and gas. J. H. Lane. No. 1,388,653; Aug. 23; v. 289; p. 713.
- Range, Combination coal and gas. S. McClure. No. 1,400,558; Dec. 20.
- Range, Combined coal and gas. L. Giambrone. No. 1,384,059; July 12; v. 288; p. 215.
- Range, Combined gas and coal. F. V. Knauss. No. 1,380,151; May 31; v. 286; p. 974.
- Range, Combined gas, wood, and coal. G. B. Child. No. 1,396,623; Nov. 8.
- Range, Combined gaseous and solid fuel. H. H. Sanford. No. 1,377,731; May 10; v. 286; p. 314.
- Range, Cooking. E. P. Cole. No. 1,392,482; Oct. 4.
- Range, Electric. F. F. Forshee. No. 1,374,558; Apr. 12; v. 285; p. 269.
- Range, Electric. F. F. Forshee. No. 1,385,990; Aug. 2; v. 289; p. 5.
- Range, Electric cooking. F. Kuhn and J. A. Hand. No. 1,376,208; Apr. 26; v. 285; p. 680.
- Range-finder. H. A. Courmettes and A. B. Cox. No. 1,381,453; June 14; v. 287; p. 266.
- Range-finder. L. Ginzbourg. No. 1,398,853; Nov. 29.
- Range-finder. J. H. Hammond, Jr. No. 1,398,509; Nov. 29.
- Range-finder, Deviator for. H. Fouasse. No. 1,370,530; Mar. 8; v. 284; p. 192.
- Range heating element, Electric. F. F. Forshee. No. 1,376,415; May 3; v. 286; p. 7.
- Range-indicator. E. Meitner. No. 1,368,224; Feb. 8; v. 283; p. 320.
- Range-indicator. E. Meitner. No. 1,373,442; Apr. 5; v. 285; p. 12.
- Range-keeper. H. C. Ford. No. 1,370,204; Mar. 1; v. 284; p. 85.
- Range-predicting apparatus. E. Meitner. No. 1,387,551; Aug. 16; v. 289; p. 439.
- Range top, Gas. W. Honbaum. No. 1,366,659; Jan. 25; v. 282; p. 635.
- Ranges, Filtering-flue for gas. M. E. Koehler. No. 1,377,694; May 10; v. 286; p. 307.
- Ranges, High-closet bracket for. S. W. Palmer. No. 1,400,569; Dec. 20.
- Ranges, House water-heating attachment for. J. E. and J. Zimmerman. No. 1,369,598; Feb. 22; v. 283; p. 674.
- Ranges, Safety device for gas. W. J. Wodraska. No. 1,376,909; May 3; v. 286; p. 101.
- Rasp, Rotary. W. P. West and J. H. Smith. No. 1,379,146; May 24; v. 286; p. 710.
- Rat-guard. W. P. Carey. No. 1,373,597; Apr. 5; v. 285; p. 42.
- Rat-guard. G. J. Hart. No. 1,376,202; Apr. 26; v. 285; p. 678.
- Rat-guard. W. F. Konig. No. 1,401,540; Dec. 27.
- Rat, mouse, and insect trap. L. Haeger. No. 1,379,685; May 31; v. 286; p. 886.
- Rat or animal trap. J. Fritsch. No. 1,392,008; Sept. 27; v. 290; p. 723.
- Rat-trap. T. V. Clapp. No. 1,371,070; Mar. 8; v. 284; p. 295.
- Rat-trap. F. G. Dresser. No. 1,382,416; June 21; v. 287; p. 508.
- Rat-trap. R. F. Kent. No. 1,399,965; Dec. 13.
- Rat-trap. A. Livezey. No. 1,399,630; Dec. 6.
- Rat-trap. T. Nagayama. No. 1,397,384; Nov. 15.
- Rats, Poisonous compound for. H. Schroeder. No. 1,372,092; Mar. 22; v. 284; p. 612.
- Rats, &c., Poisonous compound for. H. Schroeder. (Re-issue.) No. 15,130; June 21; v. 287; p. 546.



- Ratchet-chain block. W. R. Butner. No. 1,375,558; Apr. 19; v. 285; p. 523.
- Ratchet-jack. R. G. Clark. No. 1,396,253; Nov. 8.
- Ratchet mechanism. E. W. Bullard. No. 1,388,919; Aug. 30; v. 289; p. 821.
- Ratchet mechanism. E. W. Bullard. No. 1,388,923; Aug. 30; v. 289; p. 821.
- Ratchet mechanism. E. W. Bullard. No. 1,388,926; Aug. 30; v. 289; p. 822.
- Ratchet mechanism. E. W. Bullard. No. 1,388,927; Aug. 30; v. 289; p. 822.
- Ratchet mechanism. E. W. Bullard. No. 1,388,929; Aug. 30; v. 289; p. 823.
- Ratchet mechanism. H. R. Gettle and C. S. Scott. No. 1,386,400; Aug. 2; v. 289; p. 86.
- Ratchet mechanism. H. W. Hunt and F. E. Cardullo. No. 1,400,068; Dec. 13.
- Ratchet mechanism. F. A. Ost. No. 1,393,692; Oct. 11.
- Ratchet, Reversing. H. S. Craver. No. 1,365,892; Jan. 18; v. 282; p. 441.
- Ratchet socket-wrench. C. O. Tooker. No. 1,373,779; Apr. 5; v. 285; p. 77.
- Ratchet-spanner. J. Raven. No. 1,388,760; Aug. 23; v. 289; p. 734.
- Ratchet-wrench. W. L. Beaty. No. 1,400,256; Dec. 13.
- Ratchet-wrench. B. A. Butler. No. 1,364,242; Jan. 4; v. 282; p. 38.
- Ratchet-wrench. L. A. Edwinston. No. 1,391,619; Sept. 20; v. 290; p. 569.
- Ratchet-wrench. S. E. Huff. No. 1,389,759; Sept. 6; v. 290; p. 40.
- Ratchet-wrench. W. F. Kiesel, Jr. No. 1,391,636; Sept. 20; v. 290; p. 573.
- Ratcheting mechanism. A. Simon. No. 1,367,283; Feb. 1; v. 283; p. 80.
- Rattler. B. Nevin. No. 1,380,303; May 31; v. 286; p. 1002.
- Rattler, Anti. H. S. Blair. No. 1,382,054; June 21; v. 287; p. 440.
- Raw materials, Extracting valuable components from. J. W. Hornsey. No. 1,373,731; Apr. 5; v. 285; p. 68.
- Razor. D. A. Fenwick. No. 1,368,914; Feb. 15; v. 283; p. 502.
- Razor. R. E. Perkins. No. 1,388,598; Aug. 23; v. 289; p. 703.
- Razor. G. S. Sieben. No. 1,385,280; July 19; v. 288; p. 549.
- Razor and hair-cutting appliance, Safety-. A. J. Mainwaring. No. 1,401,915; Dec. 27.
- Razor and strop, Safety-. J. A. Maloney. No. 1,381,724; June 14; v. 287; p. 318.
- Razor and stropper, Combined. J. W. McAuliffe. No. 1,367,159; Feb. 1; v. 283; p. 55.
- Razor-blade. W. E. O'Reilly. No. 1,385,579; July 26; v. 288; p. 686.
- Razor-blade box or container. W. H. Williams. No. 1,377,379; May 10; v. 286; p. 248.
- Razor-blade holder. J. P. Cruise. No. 1,392,122; Sept. 27; v. 290; p. 745.
- Razor-blade holder. E. N. Kennedy. No. 1,394,909; Oct. 25.
- Razor-blade holder. J. J. Lochman. No. 1,367,611; Feb. 8; v. 283; p. 202.
- Razor-blade holder, Finger-grasping. J. A. Williamson. No. 1,378,079; May 17; v. 286; p. 434.
- Razor-blade holder, Safety-. H. W. Higley. No. 1,383,627; July 5; v. 288; p. 77.
- Razor-blade holder, Safety-. G. W. Shugers. No. 1,389,387; Aug. 30; v. 289; p. 914.
- Razor-blade holder, Safety-. A. Trumbich. No. 1,366,140; Jan. 18; v. 282; p. 488.
- Razor-blade-honing device, Safety-. J. Wakefield and A. Lamb. No. 1,367,108; Feb. 1; v. 283; p. 45.
- Razor-blade sharpener. D. B. Perkins. No. 1,392,701; Oct. 4.
- Razor-blade sharpener. I. W. Preetorius. No. 1,392,793; Oct. 4.
- Razor-blade-sharpening machine. S. Kanner. No. 1,385,622; July 26; v. 288; p. 695.
- Razor blades, Holder for safety-. H. D. Kempton. No. 1,382,292; June 21; v. 287; p. 484.
- Razor-blades, Machine for forming. J. P. Tarbox. No. 1,370,381; Mar. 1; v. 284; p. 118.
- Razor blades, Machine for sharpening safety-. M. L. Luebben. No. 1,382,794; June 28; v. 287; p. 634.
- Razor blades, Mount for safety-. D. B. Perkins. No. 1,374,228; Apr. 12; v. 285; p. 205.
- Razor-blades, Stropping or sharpening apparatus for. S. B. Earle. No. 1,392,309; Oct. 4.
- Razor, Electric. J. A. Hammond. No. 1,390,702; Sept. 13; v. 290; p. 321.
- Razor, Folding safety-. A. M. J. E. Reboul. No. 1,393,700; Oct. 11.
- Razor-grinder. S. O. Heindl. No. 1,393,283; Oct. 11.
- Razor guards, Double-acting machine for cutting the teeth in safety-. R. Middeldorf. No. 1,384,328; July 12; v. 288; p. 271.
- Razor-hone. T. A. McCulley. No. 1,393,297; Oct. 11.
- Razor-hone. E. J. Sawtelle. No. 1,389,534; Aug. 30; v. 289; p. 943.
- Razor-hone holder. F. J. Mirgon. No. 1,396,587; Nov. 8.
- Razor, Power-actuated safety-. W. S. Rose. No. 1,374,608; Apr. 12; v. 285; p. 279.
- Razor, Safety-. C. A. Benton. No. 1,383,516; July 5; v. 288; p. 53.
- Razor, Safety-. G. Broning. No. 1,368,693; Feb. 15; v. 283; p. 459.
- Razor, Safety-. G. Browning. No. 1,387,465; Aug. 16; v. 289; p. 421.
- Razor, Safety-. C. R. Burke. No. 1,384,044; July 12; v. 288; p. 212.
- Razor, Safety-. J. J. Catron. No. 1,394,886; Oct. 25.
- Razor, Safety-. I. Clair. No. 1,368,116; Feb. 8; v. 283; p. 298.
- Razor, Safety-. W. J. Davidson. No. 1,390,277; Sept. 13; v. 290; p. 236.
- Razor, Safety-. F. De Grazia. No. 1,400,031; Dec. 13.
- Razor, Safety-. J. C. Dunham. No. 1,384,691; July 12; v. 288; p. 348.
- Razor, Safety-. W. Dwyer. No. 1,398,182; Nov. 22.
- Razor, Safety-. C. O. Engstrom. No. 1,373,874; Apr. 5; v. 285; p. 97.
- Razor, Safety-. J. H. D. Everett. No. 1,401,766; Dec. 27.
- Razor, Safety-. V. F. Franck. No. 1,392,753; Oct. 4.
- Razor, Safety-. C. E. A. Gronbech. No. 1,370,960; Mar. 8; v. 284; p. 274.
- Razor, Safety-. C. E. A. Gronbech. No. 1,376,759; May 3; v. 286; p. 71.
- Razor, Safety-. R. P. Harshberger. No. 1,394,827; Oct. 25.
- Razor, Safety-. A. L. Johnston, Jr. No. 1,398,193; Nov. 22.
- Razor, Safety-. O. Kampfe. No. 1,391,478; Sept. 20; v. 290; p. 541.
- Razor, Safety-. J. L. King. No. 1,366,468; Jan. 25; v. 282; p. 597.
- Razor, Safety-. J. L. King. No. 1,367,909; Feb. 8; v. 283; p. 259.
- Razor, Safety-. J. L. King. No. 1,398,379; Nov. 29.
- Razor, Safety-. A. C. Knudtson. No. 1,365,176; Jan. 11; v. 282; p. 262.
- Razor, Safety-. L. Kowitz. No. 1,367,665; Feb. 8; v. 283; p. 212.
- Razor, Safety-. J. L. Leahy. No. 1,370,133; Mar. 1; v. 284; p. 71.
- Razor, Safety-. E. C. Madden. No. 1,396,645; Nov. 8.
- Razor, Safety-. M. M. McCaffrey. No. 1,382,301; June 21; v. 287; p. 486.
- Razor, Safety-. C. L. Merz. No. 1,389,962; Sept. 6; v. 290; p. 81.
- Razor, Safety-. E. P. Norton. No. 1,386,353; Aug. 2; v. 289; p. 77.
- Razor, Safety-. E. L. Page. No. 1,387,935; Aug. 16; v. 289; p. 515.
- Razor, Safety-. W. E. Rosenbaum. No. 1,381,848; June 14; v. 287; p. 341.
- Razor, Safety-. A. T. Stewart. No. 1,395,159; Oct. 25.
- Razor, Safety-. W. H. Van Gorder and C. E. A. Gronbech. No. 1,370,935; Mar. 8; v. 284; p. 269.
- Razor, Safety-. W. B. Walker, W. B. Morrison, and W. Smith. No. 1,365,212; Jan. 11; v. 282; p. 268.
- Razor, Safety-. O. C. Williams. No. 1,376,182; Apr. 26; v. 285; p. 674.
- Razor, Self-stropping double-edged safety-. J. W. McAuliffe. No. 1,367,157; Feb. 1; v. 283; p. 55.
- Razor, Self-stropping safety-. J. W. McAuliffe. No. 1,367,158; Feb. 1; v. 283; p. 55.
- Razor-sharpening device. E. Jacobs. No. 1,386,001; Aug. 2; v. 289; p. 7.
- Razor-strop. M. Peecher. No. 1,394,345; Oct. 18.
- Razor-strop. L. F. Worth. No. 1,391,156; Sept. 20; v. 290; p. 476.
- Razor-strop protector. S. A. Winklepleck. No. 1,364,537; Jan. 4; v. 282; p. 95.
- Razor-stripper roll. W. M. Hanson. No. 1,396,424; Nov. 8.
- Razors, Device for sharpening the blades for safety-. W. Barsch. No. 1,399,241; Dec. 6.
- Reach, Adjustable. F. H. Bittner. No. 1,393,661; Oct. 11.
- Reaction-spaces, Filling material for. A. M. Fairlie. No. 1,365,671; Jan. 18; v. 282; p. 396.
- Reactions, Control of. P. E. Edelman. No. 1,399,200; Dec. 6.
- Reading and writing, Self-illuminator for. H. and H. Sirot. No. 1,385,798; July 26; v. 288; p. 731.
- Reading, Chart for use in teaching the art of. G. E. Jones. No. 1,392,014; Sept. 27; v. 290; p. 724.
- Reading-rack, Adjustable. I. L. Osterhout. No. 1,398,601; Nov. 29.
- Reamer. J. A. Bertrand. No. 1,401,752; Dec. 27.
- Reamer. J. S. Brown. No. 1,390,876; Sept. 13; v. 290; p. 356.
- Reamer. R. J. Emory. No. 1,378,339; May 17; v. 286; p. 483.
- Reamer. H. Enlund. No. 1,373,717; Apr. 5; v. 285; p. 65.
- Reamer. H. R. Hughes. No. 1,399,863; Dec. 13.
- Reamer. G. A. Humason. No. 1,375,094; Apr. 19; v. 285; p. 435.
- Reamer. C. E. Skelton. No. 1,397,706; Nov. 22.
- Reamer and boring-tool, Adjustable. J. M. Davis. No. 1,389,492; Aug. 30; v. 289; p. 935.
- Reamer and cutter. C. J. Wood. No. 1,376,790; May 3; v. 286; p. 77.
- Reamer, Adjustable. W. B. Johnson. No. 1,375,460; Apr. 19; v. 285; p. 505.



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- Reamer, Adjustable hand-. F. P. Miller. No. 1,374,754; Apr. 12; v. 285; p. 307.
- Reamer-blades, Mounting for. A. A. Martell. No. 1,383,835; July 5; v. 288; p. 120.
- Reamer-chuck. J. J. Diehl. No. 1,369,632; Feb. 22; v. 283; p. 681.
- Reamer, Earth-boring. C. L. Wykoff. No. 1,365,069; Jan. 11; v. 282; p. 240.
- Reamer, Expanding. G. Lenhart. No. 1,389,519; Aug. 30; v. 289; p. 940.
- Reamer-head, Adjustable. A. A. Martell. No. 1,376,450; May 3; v. 286; p. 14.
- Reamer-head. W. L. Miller. No. 1,399,142; Dec. 6.
- Reamer - holder, Self-aligning. M. M. Kresge. No. 1,371,630; Mar. 15; v. 284; p. 467.
- Reamer-machine. H. Jung. No. 1,366,733; Jan. 25; v. 282; p. 650.
- Reamer, Rotary well-. W. J. Fulkerson and G. H. Yabrous. No. 1,384,016; July 5; v. 288; p. 157.
- Reamers, Movable zero-scale for. A. A. Martell. No. 1,382,843; June 28; v. 287; p. 643.
- Reamers, Support for expanding. G. L. Wood. No. 1,378,989; May 24; v. 286; p. 680.
- Reaming-machine. F. O. Pahmeyer and S. B. Clay. No. 1,399,073; Dec. 6.
- Reaming-tool. G. Mizzell. No. 1,392,960; Oct. 11.
- Reaper, Circular-disk. A. E. Cook. No. 1,397,365; Nov. 15.
- Reapers, Chain-cutter for. A. E. Cook. No. 1,397,364; Nov. 15.
- Reapers, threshers, &c., Attachment for use with. J. O. Brook. No. 1,367,533; Feb. 8; v. 283; p. 187.
- Reatomizer. F. O. Ball. No. 1,392,473; Oct. 4.
- Reboring-machine. W. A. Gallemore. No. 1,375,839; Apr. 26; v. 285; p. 609.
- Receipt-form. J. A. Boucher. No. 1,383,596; July 5; v. 288; p. 70.
- Receiver-hook switch. J. T. Gray. No. 1,388,703; Aug. 23; v. 289; p. 723.
- Receiver-shield. J. P. Minton. No. 1,396,771; Nov. 15.
- Receptacle. H. B. Cranshaw. No. 1,367,356; Feb. 1; v. 283; p. 94.
- Receptacle. S. Dembowski. No. 1,367,242; Feb. 1; v. 283; p. 72.
- Receptacle. S. E. De Long. No. 1,392,559; Oct. 4.
- Receptacle. W. M. Fausset. No. 1,394,817; Oct. 25.
- Receptacle. O. J. Parks. No. 1,384,915; July 19; v. 288; p. 473.
- Receptacle. M. L. Wagner. No. 1,371,530; Mar. 15; v. 284; p. 449.
- Receptacle. L. R. Zifferer. No. 1,381,390; June 14; v. 287; p. 254.
- Receptacle, Acid-resisting. H. Everken. No. 1,384,023; July 5; v. 288; p. 159.
- Receptacle and advertising medium, Combined trash-. G. J. Richardson. No. 1,364,209; Jan. 4; v. 282; p. 31.
- Receptacle and cream-remover, Milk-. M. Houghton. No. 1,364,763; Jan. 4; v. 282; p. 138.
- Receptacle and cup-holder, Combination. J. Rechichar. No. 1,366,936; Feb. 1; v. 283; p. 11.
- Receptacle and table, Combined. H. Harriid. No. 1,366,652; Jan. 25; v. 282; p. 634.
- Receptacle and its recovery. J. M. Rude. No. 1,381,435; June 14; v. 287; p. 263.
- Receptacle attachment, Liquid. A. W. Graham. No. 1,366,789; Jan. 25; v. 282; p. 661.
- Receptacle cap or closure applying apparatus. R. G. Clark. No. 1,375,364; Apr. 19; v. 285; p. 486.
- Receptacle, Change-. W. A. Heap. No. 1,378,173; May 17; v. 286; p. 452.
- Receptacle, Circuit-continuing heating-. C. F. Jacobs. No. 1,373,615; Apr. 5; v. 285; p. 46.
- Receptacle-closure. J. M. M. Gregory. No. 1,365,398; Jan. 11; v. 282; p. 304.
- Receptacle-closure device. A. E. Bayreuther. No. 1,390,749; Sept. 13; v. 290; p. 331.
- Receptacle-closures, Making. A. L. Bernardin and G. P. Pfirman. No. 1,370,182; Mar. 1; v. 284; p. 81.
- Receptacle, Collection-. C. J. Koenig. No. 1,400,823; Dec. 20.
- Receptacle, Conveying-. C. J. Weston. No. 1,378,574; May 17; v. 286; p. 528.
- Receptacle-cover support. R. L. Smith. No. 1,368,367; Feb. 15; v. 283; p. 395.
- Receptacle, Crystallizing-. F. Merz. No. 1,366,474; Jan. 25; v. 282; p. 598.
- Receptacle, Delivery-. A. Kiss. No. 1,371,377; Mar. 15; v. 284; p. 418.
- Receptacle filling and closing apparatus. E. E. Lawrence. No. 1,365,415; Jan. 11; v. 282; p. 308.
- Receptacle-filling machine. E. L. Powl. No. 1,371,435; Mar. 15; v. 284; p. 429.
- Receptacle-filling machine, Automatic. L. H. Hartman. No. 1,401,401; Dec. 27.
- Receptacle, Foldable. F. M. Steuterman. No. 1,377,638; May 10; v. 286; p. 296.
- Receptacle, Food-. R. J. Winnie. No. 1,367,848; Feb. 8; v. 283; p. 248.
- Receptacle for crochet-thread and the like. E. M. Christensen. No. 1,390,982; Sept. 20; v. 290; p. 440.
- Receptacle, Ink-. A. Bomboy. No. 1,364,692; Jan. 4; v. 282; p. 124.
- Receptacle, Inner-tube. J. H. Mills. No. 1,383,962; July 5; v. 288; p. 145.
- Receptacle, Insecticide-dispensing. H. G. Irwin. No. 1,370,110; Mar. 1; v. 284; p. 67.
- Receptacle-lid lifter. G. A. Knapp. No. 1,374,017; Apr. 5; v. 285; p. 124.
- Receptacle-making machine. H. A. and W. H. Inman. No. 1,395,229; Oct. 25.
- Receptacles, Means for sealing. C. Hammer. No. 1,393,016; Oct. 11.
- Receptacle, Milk-bottle. E. E. Ball. No. 1,379,509; May 24; v. 286; p. 779.
- Receptacle, Molded. D. D. Wessels. No. 1,399,174; Dec. 6.
- Receptacle, Mouthpiece for liquid-. S. D. Garbis. No. 1,384,315; July 12; v. 288; p. 268.
- Receptacle or container. F. Schang. No. 1,388,206; Aug. 23; v. 289; p. 625.
- Receptacles or the like, Apparatus for filling. H. M. Smith. No. 1,397,061; Nov. 15.
- Receptacle, Sealed. E. F. Hulbert. No. 1,385,831; July 26; v. 288; p. 737.
- Receptacle, Sealed metallic. H. E. Hastings, W. L. Farley, and A. F. Sulzer. No. 1,386,619; Aug. 9; v. 289; p. 200.
- Receptacle, Self-closing bundle-. C. E. Cardwell. No. 1,377,114; May 3; v. 286; p. 140.
- Receptacle-support and advertising-exhibitor. J. H. and H. F. Hartzell. No. 1,373,963; Apr. 5; v. 285; p. 114.
- Receptacle support, Mail-. E. McDill. No. 1,377,084; May 3; v. 286; p. 134.
- Receptacle, Vegetable and fruit. A. Freeman. No. 1,366,781; Jan. 25; v. 282; p. 660.
- Receptacles, Apparatus for and method of making. M. Gerson. No. 1,381,179; June 14; v. 287; p. 216.
- Receptacles, Bail for. C. A. Krauss. No. 1,368,508; Feb. 15; v. 283; p. 423.
- Receptacles, Forming closures for. T. L. Taliaferro. No. 1,383,877; July 5; v. 288; p. 128.
- Receptacles, Forming closures of sealed. E. F. Hulbert. No. 1,385,830; July 26; v. 288; p. 737.
- Receptacles, Lid or closure for. V. Lougheed. No. 1,373,437; Apr. 5; v. 285; p. 11.
- Receptacles, Making paper-lined. F. W. Wood. No. 1,366,621; Jan. 25; v. 282; p. 628.
- Receptacles, Method and apparatus for lining. F. J. MacDonald. No. 1,399,780; Dec. 13.
- Receptacles, Method of and means for agitating contents of. G. W. Christians. No. 1,366,874; Jan. 25; v. 282; p. 678.
- Receptacles of all kinds, Closing means for. J. B. M. Liarsou and C. Colombani. No. 1,372,007; Mar. 22; v. 284; p. 596.
- Receptacles, Outlet for acid-. F. W. DeJahn. No. 1,366,170; Jan. 18; v. 282; p. 494.
- Receptacles, Portable tool for securing binding material to. C. E. Wise. No. 1,376,597; May 3; v. 286; p. 41.
- Receptacles, Reinforcing-corner for. H. C. Dorn and H. A. Leudke. No. 1,397,623; Nov. 22.
- Receptacles, Tapping device for. F. Kirby. No. 1,379,632; May 31; v. 286; p. 876.
- Rechargeable electric battery. H. R. Dam. No. 1,377,060; May 3; v. 286; p. 130.
- Reciprocating engine. A. C. Stewart. No. 1,389,017; Aug. 30; v. 289; p. 841.
- Reciprocating implement and means for driving the same, Power-driven. G. Constantinesco. No. 1,372,941; Mar. 29; v. 284; p. 819.
- Reciprocating machines, Safety device for. F. John. No. 1,370,115; Mar. 1; v. 284; p. 68.
- Reciprocative-movement mechanism, Power-transmitting. A. M. Beam. No. 1,371,340; Mar. 15; v. 284; p. 410.
- Reclaiming by-products, Process and apparatus for. P. A. Paulson. No. 1,393,241; Oct. 11.
- Reclining-chair. G. L. Starks. No. 1,377,605; May 10; v. 286; p. 290.
- Recoil apparatus for ordnance. A. Bremberg and A. Banks. No. 1,385,301; July 19; v. 288; p. 552.
- Recoil mechanism. S. F. Johnson. No. 1,379,989; May 31; v. 286; p. 943.
- Recoil mechanism, Floating piston for. B. B. Holmes. No. 1,369,279; Feb. 22; v. 283; p. 612.
- Record folder, Time-. C. H. Hansen. No. 1,398,231; Nov. 29.
- Record-holder. E. A. Bansbach. No. 1,370,399; Mar. 1; v. 284; p. 122.
- Record-lifting device. W. A. Richman. No. 1,390,546; Sept. 13; v. 290; p. 290.
- Record-slip support. J. Willy. No. 1,380,877; June 7; v. 287; p. 106.
- Record-sorter, Sectional. E. P. Waterhouse. No. 1,379,790; May 31; v. 286; p. 905.
- Record system. J. C. Fruit. No. 1,367,034; Feb. 1; v. 283; p. 30.
- Records, Device for measuring graphic. W. Hess, Jr. No. 1,376,768; May 3; v. 286; p. 73.
- Records, Holder for disk. C. Schultz. No. 1,374,240; Apr. 12; v. 285; p. 207.
- Records, Molding wax. J. A. McVickar. No. 1,394,034; Oct. 18.



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- Recorder: *See—*  
 Electric recorder. Vibration-recorder.  
 Ribbon-recorder.  
 Stenographer's rapid recorder.
- Recorder. A. Roesch. No. 1,380,417; June 7; v. 287; p. 17.
- Recorder. J. M. Wright. No. 1,364,227; Jan. 4; v. 282; p. 35.
- Recorder and register, Combined. R. B. Carmany and A. F. Herring. No. 1,397,502; Nov. 22.
- Recording and registering apparatus, Train. J. A. Repinski and I. A. Spaulding. No. 1,364,303; Jan. 4; v. 282; p. 51.
- Recording and signal device, Watchman's double. W. J. Tidd. No. 1,378,152; May 17; v. 286; p. 448.
- Recording apparatus. G. L. Douglass. No. 1,387,642; Aug. 16; v. 289; p. 457.
- Recording apparatus. H. H. Hubbard. No. 1,394,733; Oct. 25.
- Recording apparatus. E. Viollet. No. 1,397,710; Nov. 22.
- Recording-gage. R. P. Brown and F. Wagner. No. 1,390,273; Sept. 13; v. 290; p. 235.
- Recording instrument. O. T. Alexander. No. 1,368,092; Feb. 8; v. 283; p. 293.
- Recording instrument. L. B. Swift. No. 1,367,520; Feb. 1; v. 283; p. 127.
- Recording-key. A. D. Hargan. No. 1,378,950; May 24; v. 286; p. 673.
- Recording-lock. J. W. Bryce. No. 1,365,814; Jan. 18; v. 282; p. 425.
- Recording-lock. J. W. Bryce. No. 1,378,652; May 17; v. 286; p. 544.
- Recording-machine. H. Landsiedel. No. 1,395,121; Oct. 25.
- Recording-machines, Paper-supporting mechanism for. W. S. Gubelmann. No. 1,372,748; Mar. 29; v. 284; p. 779.
- Recording-strip, Apparatus for recording various phenomena by the movement of the. F. Guengnon. No. 1,379,916; May 31; v. 286; p. 929.
- Recording system and selector mechanism therefor. P. C. Raymond. No. 1,393,827; Oct. 18.
- Recording time-lock. E. S. Phelps. No. 1,373,204; Mar. 29; v. 284; p. 871.
- Recovering valuable solution from mixtures. L. D. Mills. No. 1,385,701; July 26; v. 288; p. 711.
- Recreation-grounds or race-courses, Indicator for use on. A. Watkinson. No. 1,393,414; Oct. 11.
- Rectifier and pole-changer, Electrical. F. Schoenwolf. No. 1,382,745; June 28; v. 287; p. 625.
- Rectifier. O. M. Leich. No. 1,366,395; Jan. 25; v. 282; p. 582.
- Rectifier, Inverted. F. W. Meyer. No. 1,381,324; June 14; v. 287; p. 242.
- Rectifiers, Apparatus for measuring the vacuum in large. B. B. Schäfer. No. 1,377,282; May 10; v. 286; p. 228.
- Rectifiers, Apparatus for protecting metal-vapor. B. B. Schäfer. No. 1,367,098; Feb. 1; v. 283; p. 43.
- Rectifying apparatus, High-tension. N. V. Fedotoff. No. 1,382,965; June 28; v. 287; p. 667.
- Reducing and separating materials, Machine for. T. J. Sturtevant. No. 1,390,840; Sept. 13; v. 290; p. 349.
- Reducing bodies. W. A. Leddell. No. 1,398,970; Dec. 6.
- Reducing interference, Means for. H. S. Osborne. No. 1,390,580; Sept. 13; v. 290; p. 296.
- Reed and beating-reed organ, Beating. G. Cloetens. No. 1,399,462; Dec. 6.
- Reed instrument, Mouthpiece for. W. Lewerenz. No. 1,401,159; Dec. 27.
- Reed-protecting device. G. C. Mazzeri. No. 1,376,213; Apr. 26; v. 285; p. 681.
- Reel: *See—*  
 Clothesline-reel. Harvester-reel.  
 Endless-film reel. Hose-reel.  
 Eyeglass-chain reel. Inking-reel.  
 Film-reel. Oven-reel.  
 Fishing-line reel. Picture-reel.  
 Fishing-reel. Wire-reel.  
 Fuse-wire reel.
- Reel. R. Cassidy. No. 1,394,276; Oct. 18.
- Reel. W. J. Frohmuth and D. E. Sobagen. No. 1,398,185; Nov. 22.
- Reel. J. A. Holmquist. No. 1,375,844; Apr. 26; v. 285; p. 610.
- Reel. A. G. Johnson. No. 1,366,186; Jan. 18; v. 282; p. 497.
- Reel. S. J. Martin. No. 1,396,450; Nov. 8.
- Reel. W. J. Smith. No. 1,384,572; July 12; v. 288; p. 322.
- Reel. J. Sommer. No. 1,372,784; Mar. 29; v. 284; p. 786.
- Reel. D. Sprague. No. 1,396,236; Nov. 8.
- Reel. J. Yonnett and E. T. Lonkert. No. 1,376,303; Apr. 26; v. 285; p. 698.
- Reel-cover, Attachment for flexible. L. S. Gunderman. No. 1,386,617; Aug. 9; v. 289; p. 200.
- Reel-fly rack. C. P. Shoemaker. No. 1,375,613; Apr. 19; v. 285; p. 334.
- Reel-holder. G. E. Bull. No. 1,400,936; Dec. 20.
- Reel-holder. C. J. Anderson. No. 1,366,340; Jan. 25; v. 282; p. 571.
- Reel of sheet material. E. P. Flynn. No. 1,377,154; May 3; v. 286; p. 147.
- Reel or beam. F. Mossberg. No. 1,380,670; June 7; v. 287; p. 66.
- Reel-seat. L. J. Lane. No. 1,367,272; Feb. 1; v. 283; p. 78.
- Reel structure. F. T. Neale. No. 1,385,092; July 19; v. 288; p. 511.
- Reels, Driving and controlling the operation of. L. Pirdun and J. P. Burke. No. 1,388,885; Aug. 30; v. 289; p. 814.
- Reels, Drum-handle for tape-line. C. W. Crogan. No. 1,375,630; Apr. 19; v. 285; p. 537.
- Reeling device. W. W. Hunzicker. No. 1,366,184; Jan. 18; v. 282; p. 497.
- Reeling device. F. A. Klohs. No. 1,366,189; Jan. 18; v. 282; p. 498.
- Reeling device. S. S. Matthes. No. 1,366,198; Jan. 18; v. 282; p. 499.
- Reeling device. S. S. Matthes. No. 1,366,199; Jan. 18; v. 282; p. 500.
- Reeling-machine. W. F. Hosford. No. 1,393,286; Oct. 11.
- Reeling-machine. F. S. Kochendorfer. No. 1,365,413; Jan. 11; v. 282; p. 307.
- Reference-gage. J. Bath. No. 1,369,317; Feb. 22; v. 283; p. 618.
- Refining apparatus. G. A. Bausman. No. 1,381,269; June 14; v. 287; p. 232.
- Reflecting apparatus. T. J. Kennedy. No. 1,365,247; Jan. 11; v. 282; p. 275.
- Reflector. W. T. Blackwell. No. 1,381,103; June 14; v. 287; p. 202.
- Reflector. M. P. Brogan. No. 1,401,870; Dec. 27.
- Reflector. M. M. Merritt. No. 1,387,424; Aug. 9; v. 289; p. 362.
- Reflector. E. Zimmermann, Jr. No. 1,370,255; Mar. 1; v. 284; p. 95.
- Reflector, Adjustable view-. H. J. Gage. No. 1,387,887; Aug. 16; v. 289; p. 506.
- Reflector and diffuser, Light. G. D. Hazard. No. 1,365,319; Jan. 11; v. 282; p. 289.
- Reflector and lacquering reflectors, Lacquered. O. D. Plummer. No. 1,369,467; Feb. 22; v. 283; p. 648.
- Reflector and making the same, Composite. C. E. Akeley. No. 1,382,261; June 21; v. 287; p. 478.
- Reflector for use in light-projectors. J. G. Balsillie. No. 1,390,747; Sept. 13; v. 290; p. 330.
- Reflector, Radiant. G. J. Henry. No. 1,393,368; Oct. 11.
- Reflector, Multiple. E. N. Brown and M. H. Shoenberg. No. 1,400,859; Dec. 20.
- Reflector, Non-glare. A. Mosher. No. 1,368,281; Feb. 15; v. 283; p. 379.
- Refractory and insulating products, Manufacture of. G. L. Dimitri and J. E. Delaunay. No. 1,374,493; Apr. 12; v. 285; p. 257.
- Refractory article and producing same, Highly-. H. H. Buckman and G. A. Pritchard. No. 1,375,077; Apr. 19; v. 285; p. 452.
- Refractory composition, Acid-proof. H. P. Bassett. No. 1,390,327; Sept. 13; v. 290; p. 246.
- Refractory material. L. Denis. No. 1,365,230; Jan. 11; v. 282; p. 272.
- Refractory material. E. D. Frohman. No. 1,372,016; Mar. 22; v. 284; p. 598.
- Refractory material. M. L. Hartmann. No. 1,376,091; Apr. 26; v. 285; p. 658.
- Refractory material and making same. C. H. Breerwood. No. 1,380,700; June 7; v. 287; p. 71.
- Refractory material, Basic. H. P. Bassett. No. 1,390,328; Sept. 13; v. 290; p. 246.
- Refractory materials, Manufacture of. J. F. Mollen and W. W. Patnoe. No. 1,365,336; Jan. 11; v. 282; p. 292.
- Refrigerant-holding receptacle. A. P. Kruse. No. 1,379,108; May 24; v. 286; p. 703.
- Refrigerating apparatus. L. G. Copeman. No. 1,396,996; Nov. 15.
- Refrigerating apparatus. J. G. De Remer. No. 1,373,174; Mar. 29; v. 284; p. 865.
- Refrigerating apparatus. J. Ellmauer. No. 1,369,734; Feb. 22; v. 283; p. 701.
- Refrigerating apparatus. E. F. Fisher. No. 1,375,836; Apr. 26; v. 285; p. 608.
- Refrigerating apparatus. H. C. Gardner and F. A. Lindberg. No. 1,373,231; Mar. 29; v. 284; p. 876.
- Refrigerating apparatus. G. A. Gase. No. 1,369,800; Mar. 1; v. 284; p. 9.
- Refrigerating apparatus. J. E. Gilman. No. 1,388,332; Aug. 23; v. 289; p. 651.
- Refrigerating apparatus. E. A. W. Jefferies. No. 1,379,102; May 24; v. 286; p. 702.
- Refrigerating apparatus. H. B. Joy. No. 1,367,266; Feb. 1; v. 283; p. 77.
- Refrigerating apparatus. E. G. E. Langbert. No. 1,375,396; Apr. 19; v. 285; p. 493.
- Refrigerating apparatus. H. E. Moore. No. 1,382,214; June 21; v. 287; p. 469.
- Refrigerating apparatus. F. H. Pepper. No. 1,372,367; Mar. 22; v. 284; p. 665.
- Refrigerating apparatus. P. W. Petersen. No. 1,388,295; Aug. 23; v. 289; p. 643.



## Alphabetical list of inventions—Continued.

- Refrigerating apparatus. C. M. Smith and H. Weigand. No. 1,383,246; June 28; v. 287; p. 720.  
 Refrigerating apparatus. B. Thoens. No. 1,369,366; Feb. 22; v. 283; p. 628.  
 Refrigerating apparatus, Compressor for. J. H. Denny. No. 1,366,879; Jan. 25; v. 282; p. 679.  
 Refrigerating apparatus, Domestic. R. M. Blakely. No. 1,381,056; June 7; v. 287; p. 141.  
 Refrigerating-box, Knockdown. Z. U. Dodge. No. 1,397,269; Nov. 15.  
 Refrigerating-machine. P. Fischbacher. No. 1,389,747; Sept. 6; v. 290; p. 37.  
 Refrigerating-machine. W. C. Raddant. No. 1,390,161; Sept. 6; v. 290; p. 121.  
 Refrigerating-machine. E. T. Williams. No. 1,392,997; Oct. 11.  
 Refrigerating process. A. G. Crawford. No. 1,396,024; Nov. 8.  
 Refrigerating system and operating the same. G. A. Gase and E. A. Seymer. No. 1,371,235; Mar. 15; v. 284; p. 389.  
 Refrigeration. B. Thoens. No. 1,369,365; Feb. 22; v. 283; p. 628.  
 Refrigeration apparatus. W. C. Baer. No. 1,386,753; Aug. 9; v. 289; p. 228.  
 Refrigeration apparatus. E. A. Riotte. No. 1,370,153; Mar. 1; v. 284; p. 75.  
 Refrigeration apparatus. H. E. Willsie. No. 1,364,339; Jan. 4; v. 282; p. 57.  
 Refrigeration, Counter. E. Jahnke. No. 1,371,169; Mar. 8; v. 284; p. 313.  
 Refrigerator. D. Bonzi. No. 1,373,294; Mar. 29; v. 284; p. 889.  
 Refrigerator. R. K. Burritt. No. 1,380,188; May 31; v. 286; p. 981.  
 Refrigerator. G. O. Bush. No. 1,398,769; Nov. 29.  
 Refrigerator. M. Cohen. No. 1,380,190; May 31; v. 286; p. 981.  
 Refrigerator. F. J. M. Curran. No. 1,380,533; June 7; v. 287; p. 39.  
 Refrigerator. F. J. Dahlke. No. 1,370,584; Mar. 8; v. 284; p. 202.  
 Refrigerator. J. S. Forbes. No. 1,377,824; May 10; v. 286; p. 333.  
 Refrigerator. H. C. Fratt. No. 1,367,368; Feb. 1; v. 283; p. 97.  
 Refrigerator. H. H. Hillman. No. 1,369,338; Feb. 22; v. 283; p. 623.  
 Refrigerator. L. J. Jones. No. 1,369,440; Feb. 22; v. 283; p. 643.  
 Refrigerator. A. N. Marschall. No. 1,366,014; Jan. 18; v. 282; p. 464.  
 Refrigerator. J. W. McCrone. No. 1,387,159; Aug. 9; v. 289; p. 309.  
 Refrigerator. A. Nowak. No. 1,396,457; Nov. 8.  
 Refrigerator. A. S. Oliver. No. 1,370,907; Mar. 8; v. 284; p. 263.  
 Refrigerator. R. E. Ottenheimer. No. 1,389,688; Sept. 6; v. 290; p. 25.  
 Refrigerator. H. C. Pierce. No. 1,396,875; Nov. 15.  
 Refrigerator. H. H. Reed. No. 1,383,235; June 28; v. 287; p. 718.  
 Refrigerator. E. H. Roy. No. 1,395,598; Nov. 1.  
 Refrigerator. B. Urso. No. 1,389,171; Aug. 30; v. 289; p. 871.  
 Refrigerator. E. Van Dyke. No. 1,400,643; Dec. 20.  
 Refrigerator. J. H. Weir. No. 1,393,929; Oct. 18.  
 Refrigerator. F. J. Williamson. No. 1,379,500; May 24; v. 286; p. 777.  
 Refrigerator. E. J. Wiris. No. 1,377,451; May 10; v. 286; p. 262.  
 Refrigerator and ice-cream freezer, Combined. D. P. Heath. No. 1,396,574; Nov. 8.  
 Refrigerator and manufacturing same. E. Boehm. No. 1,378,003; May 17; v. 286; p. 419.  
 Refrigerator, Bottle. R. J. Soutullo. No. 1,390,934; Sept. 13; v. 290; p. 368.  
 Refrigerator-car construction. E. Posson. No. 1,388,600; Aug. 23; v. 289; p. 703.  
 Refrigerator construction. H. J. Gwyer. No. 1,398,964; Dec. 6.  
 Refrigerator display-case. L. G. Gray. No. 1,387,486; Aug. 16; v. 289; p. 425.  
 Refrigerator-door. M. Jurek. No. 1,382,837; June 28; v. 287; p. 642.  
 Refrigerator-door construction. W. H. Whittier. No. 1,379,067; May 24; v. 286; p. 695.  
 Refrigerator door-operating mechanism. W. A. Geiger. No. 1,372,681; Mar. 29; v. 284; p. 766.  
 Refrigerator, Iceless. M. A. Snider. No. 1,385,158; July 19; v. 288; p. 525.  
 Refrigerator-lining. J. F. Bardush. No. 1,372,859; Mar. 29; v. 284; p. 802.  
 Refrigerator, Portable. J. M. Pun. No. 1,376,577; May 8; v. 286; p. 38.  
 Refrigerator, Shipping. J. M. Pun. No. 1,370,044; Mar. 1; v. 284; p. 54.  
 Refrigerator-showcase. R. E. Ottenheimer. No. 1,390,812; Sept. 13; v. 290; p. 344.  
 Refrigerator, Side-icing. C. A. Ketterer. No. 1,369,443; Feb. 22; v. 283; p. 643.  
 Refrigerator, Weighing. A. R. Sackett. No. 1,389,533; Aug. 30; v. 289; p. 943.  
 Refrigerator, Window-. G. L. Biddle. No. 1,372,592; Mar. 22; v. 284; p. 708.  
 Refrigerator, Window-. V. De Schepper. No. 1,379,879; May 31; v. 286; p. 922.  
 Refrigerators, Adjustable drain and trap for. B. P. Smith. No. 1,375,423; Apr. 19; v. 285; p. 498.  
 Refuse-catcher, Removable. W. H. Dunn. No. 1,390,345; Sept. 13; v. 290; p. 249.  
 Refuse, Device for the removal of. J. Ochsner. No. 1,373,756; Apr. 5; v. 285; p. 72.  
 Regenerative brake device. W. V. Turner. No. 1,400,840; Dec. 20.  
 Regenerative brake device. W. V. Turner. (Reissue.) No. 15,229; Nov. 15.  
 Regenerative brakes, Safety device for. W. V. Turner. No. 1,400,839; Dec. 20.  
 Regenerative control apparatus and system, Electrical. W. S. H. Hamilton. No. 1,376,015; Apr. 26; v. 285; p. 643.  
 Register: See—  
     Account-register. Float-register.  
     Autographic register. Furnace-register.  
     Cash-register. Hot-air register.  
     Coin and ticket fare register. Hot and cold air register.  
     Fare-register. Motor-driven coin-register.  
     Firearm-register. Telephone-call register.  
 Register. J. J. Albright. No. 1,392,899; Oct. 11.  
 Register. A. Henry. No. 1,369,027; Feb. 22; v. 283; p. 563.  
 Register. H. D. Hodge and J. G. Duff. No. 1,382,913; June 28; v. 287; p. 657.  
 Register. C. H. Veeder. No. 1,394,455; Oct. 18.  
 Register, &c. C. H. Veeder. No. 1,399,417; Dec. 6.  
 Register, Autographic. M. C. Stern and H. E. Tinnerman. No. 1,364,153; Jan. 4; v. 282; p. 20.  
 Register, Cash-. E. J. von Pein. No. 1,371,653; Mar. 15; v. 284; p. 472.  
 Register-footrest. W. H. Coleman. No. 1,387,454; Aug. 16; v. 289; p. 418.  
 Register for lineal measuring. E. Ek. No. 1,392,573; Oct. 4.  
 Register, Heating or ventilating. J. H. Shenton. No. 1,394,227; Oct. 18.  
 Registers, Brake for lineal-measuring. E. Ek. No. 1,392,572; Oct. 4.  
 Registers, Key device for. R. M. Hopkins. No. 1,394,831; Oct. 25.  
 Registers, Reverse-operation check for. E. E. Phinney. No. 1,384,633; July 12; v. 288; p. 335.  
 Registers, Setting-machine for indicating. L. E. Baker. No. 1,379,738; May 31; v. 286; p. 896.  
 Registers, Stop mechanism for. G. A. Bruhn. No. 1,382,467; June 21; v. 287; p. 518.  
 Registers, Testing apparatus for massage-. W. A. Rhodes. No. 1,379,650; May 31; v. 286; p. 880.  
 Registering apparatus. W. H. Bywater. No. 1,397,854; Nov. 22.  
 Registering images in cinematographic projecting apparatus, Arrangement for. P. S. Gauriat. No. 1,389,824; Sept. 6; v. 290; p. 53.  
 Registering mechanism. R. C. Hughes. No. 1,373,245; Mar. 29; v. 284; p. 879.  
 Registering mechanism, Plate-. W. H. Banzett. No. 1,370,624; Mar. 8; v. 284; p. 211.  
 Registering a ship's draft, Means for automatically. F. W. Merritt and A. E. Watts. No. 1,380,575; June 7; v. 287; p. 47.  
 Registering system, Message-. G. K. Thompson. No. 1,397,991; Nov. 22.  
 Registry apparatus. C. C. Johnson. No. 1,394,840; Oct. 25.  
 Registry system. C. C. Johnson. No. 1,394,839; Oct. 25.  
 Registry system and register therefor. R. M. Hopkins. No. 1,394,834; Oct. 25.  
 Registry system and register therefor. C. C. Johnson. No. 1,394,838; Oct. 25.  
 Registry system, Watchman's. R. M. Hopkins. No. 1,394,832; Oct. 25.  
 Regulating and governing apparatus, Combined. J. P. Metzger. No. 1,369,691; Feb. 22; v. 283; p. 692.  
 Regulating device. J. B. Replogle. No. 1,398,643; Nov. 29.  
 Regulating means, Combustion-. J. M. Hopwood. No. 1,400,549; Dec. 20.  
 Regulating or controlling mechanism, Method and means for. J. M. Hopwood. No. 1,371,243; Mar. 15; v. 284; p. 391.  
 Regulating system. C. L. Fortescue. No. 1,376,424; May 3; v. 286; p. 9.  
 Regulating system. A. A. Tirrill. No. 1,396,898; Nov. 15.  
 Regulating system, Automatic. L. W. Thompson. No. 1,365,566; Jan. 11; v. 282; p. 337.  
 Regulating a system subject to large intermittent loads, Means for. A. Herz. No. 1,385,170; July 19; v. 288; p. 527.



*Alphabetical list of inventions—Continued.*

- Regulator: See—**  
 Automatic arc-regulator. Gas-regulator.  
 Automatic draft-regulator. Heat-regulator.  
 Automatic heat-regulator. High-pressure standard  
 Boiler-feed-water regula- regulator.  
 tor. Ionization-current regula-  
 Current-regulator. tor.  
 Damper-regulator. Irrigation-regulator.  
 Draft-regulator. Lamp-voltage regulator.  
 Dynamo-field regulator. Lamp-week regulator.  
 Electric-dynamo voltage- Light-regulator.  
 regulator. Liquid-fuel-feed regulator.  
 Electric feed-water regula- Phonograph sound-regula-  
 tor. tor.  
 Electric regulator. Pressure-regulator.  
 Electric thermo-regulator. Radiator air-regulator.  
 Electrical regulator. Steam-pressure regulator.  
 Fan-blast regulator. Stuff-regulator.  
 Feed-regulator. Superheater-regulator.  
 Feed-water regulator. Temperature-regulator.  
 Fluid-level regulator. Valve-regulator.  
 Furnace-damper regulator. Window-regulator.
- Regulator. S. F. Briggs. No. 1,399,741; Dec. 13.  
 Regulator. V. D. Carroll. No. 1,384,554; July 12; v. 288; p. 318.  
 Relay. R. E. De Camp. No. 1,368,326; Feb. 15; v. 283; p. 387.  
 Regulator. I. J. Foltz. No. 1,393,615; Oct. 11.  
 Regulator. J. H. Hunt. No. 1,372,073; Mar. 22; v. 284; p. 608.  
 Regulator. E. M. Soreng. No. 1,383,494; July 5; v. 288; p. 49.  
 Regulator machine, Vacuum-. L. Le Bras. No. 1,384,724; July 12; v. 288; p. 354.  
 Regulators, Motor for. R. J. Seator. No. 1,378,625; May 17; v. 286; p. 538.  
 Reinforced-bars. E. J. Paque. No. 1,400,570; Dec. 20.  
 Reinforced blocks and interlocking means therefor. C. G. Hastings. No. 1,381,119; June 14; v. 287; p. 205.  
 Reinforced spring. G. Tremolada. No. 1,392,540; Oct. 4.  
 Reinforcing and sealing device. J. Januchowsky. No. 1,394,678; Oct. 25.  
 Reinforcing-bar. H. Fougner. No. 1,400,278; Dec. 13.  
 Reinforcing-bars, Support for. S. L. Heldrich. No. 1,380,332; May 31; v. 286; p. 1008.  
 Reinforcing-bars, Supporting-chair for supporting. O. J. Voelpel. No. 1,378,202; May 17; v. 286; p. 457.  
 Relay. R. E. De Camp. No. 1,392,251; Sept. 27; v. 290; p. 771.  
 Relay. F. L. Dodgson. No. 1,391,944; Sept. 27; v. 290; p. 708.  
 Relay. G. R. Guild. No. 1,382,356; June 21; v. 287; p. 496.  
 Relay. G. R. Guild. No. 1,384,948; July 19; v. 288; p. 480.  
 Relay. C. O. Harrington. No. 1,372,688; Mar. 29; v. 284; p. 767.  
 Relay. R. E. Hellmund. No. 1,371,560; Mar. 15; v. 284; p. 455.  
 Relay. P. C. Hewitt. No. 1,393,018; Oct. 11.  
 Relay. W. Kalsling. No. 1,366,912; Feb. 1; v. 283; p. 6.  
 Relay. J. A. Obermaier. No. 1,376,633; May 3; v. 286; p. 48.  
 Relay. C. Sparks. No. 1,396,072; Nov. 8.  
 Relay, Amplifying-. A. J. Kloneck. No. 1,369,284; Feb. 22; v. 283; p. 612.  
 Relay, Balancing-. W. E. Brantigan. No. 1,392,742; Oct. 4.  
 Relay, Coincident maximum-demand. E. A. Lueky and R. N. Houghton. No. 1,378,884; May 24; v. 286; p. 661.  
 Relay, Electric. M. Garl. No. 1,379,549; May 24; v. 286; p. 786.  
 Relay-Interrupter. R. I. Utter. No. 1,368,376; Feb. 15; v. 283; p. 397.  
 Relay system. C. L. Fortescue. No. 1,376,418; May 3; v. 286; p. 8.  
 Release, Automatic. E. D. Pepper. No. 1,375,605; Apr. 19; v. 285; p. 532.  
 Release hook. T. Johnson. No. 1,370,589; Mar. 8; v. 284; p. 203.  
 Relieving-machine. F. S. Shields. No. 1,396,292; Nov. 8.  
 Reliner. A. O. Mason. No. 1,382,844; June 28; v. 287; p. 643.  
 Relishing-machine. C. D. Burritt. No. 1,400,864; Dec. 20.  
 Remedy, Diabetes. W. L. Frazier. No. 1,384,444; July 12; v. 288; p. 295.  
 Remedy, Diabetes. W. L. Frazier. No. 1,384,445; July 12; v. 288; p. 295.  
 Remedy for hemorrhoids. F. B. Wells. No. 1,385,195; July 19; v. 288; p. 532.  
 Remembrancer. D. Donelan. No. 1,378,769; May 17; v. 286; p. 566.  
 Reminder. W. H. Collins. No. 1,395,094; Oct. 25.  
 Repair-clamp. W. A. R. Angus. No. 1,374,174; Apr. 12; v. 285; p. 195.  
 Repair-handle. C. Grant. No. 1,376,529; May 3; v. 286; p. 28.  
 Repair-tack. C. W. Lavers. No. 1,372,758; Mar. 29; v. 284; p. 781.  
 Repairing device. P. Hedin. No. 1,388,815; Aug. 23; v. 289; p. 746.  
 Repairing-stand. G. W. Fagan. No. 1,379,907; May 31; v. 286; p. 927.  
 Repeater apparatus, Portable. J. F. Toomey and C. G. Spencer. No. 1,378,919; May 24; v. 286; p. 667.  
 Repeater-network-selecting apparatus. J. F. Toomey and C. S. Demarest. No. 1,380,751; June 7; v. 287; p. 81.  
 Repeaters, Means for controlling. J. F. Toomey. No. 1,364,964; Jan. 11; v. 282; p. 221.  
 Repeating arms, Block-action for. N. Beets. No. 1,387,460; Aug. 16; v. 289; p. 420.  
 Reproducer. A. Atlas. No. 1,395,937; Nov. 1.  
 Reproducer. J. Belpedio. No. 1,365,146; Jan. 11; v. 282; p. 256.  
 Reproducer. J. Belpedio. No. 1,399,922; Dec. 13.  
 Reproducer. F. W. Minor. No. 1,375,407; Apr. 19; v. 285; p. 495.  
 Reproducer and tone-arm, Automatic universal. C. C. Bender. No. 1,394,804; Oct. 25.  
 Reproducing instrument and associated mechanism. F. A. Hoshcke. No. 1,373,732; Apr. 5; v. 285; p. 68.  
 Repulsion-motor. W. C. Korthals-Altes. No. 1,396,582; Nov. 8.  
 Rerailer. T. Rivard. No. 1,389,383; Aug. 30; v. 289; p. 914.  
 Reseating attachment. A. C. Lindholm. No. 1,392,585; Oct. 4.  
 Reservatory, Impermeable. G. C. Kennedy. No. 1,375,758; Apr. 26; v. 285; p. 593.  
 Reserve supply-tank. A. W. Codd. No. 1,374,433; Apr. 12; v. 285; p. 245.  
 Reserve-supply tank, Detachable. A. W. Codd. No. 1,400,727; Dec. 20.  
 Reservoir, Fuel-. J. S. Brennan. No. 1,376,859; May 3; v. 286; p. 91.  
 Resilient annular body. J. S. Williams. No. 1,391,151; Sept. 20; v. 290; p. 475.  
 Resilient clamp. T. S. Esnough and B. L. Schreiner. No. 1,380,096; May 31; v. 286; p. 964.  
 Resilient device. E. E. Ross. No. 1,378,281; May 17; v. 286; p. 473.  
 Resilient material. M. Golein. No. 1,400,151; Dec. 13.  
 Resilient vehicle-wheel. J. B. Hanley. No. 1,374,651; Apr. 12; v. 285; p. 288.  
 Resilient wheel. J. Ardo. No. 1,391,660; Sept. 27; v. 290; p. 651.  
 Resilient wheel. W. E. Babbitt. No. 1,392,262; Sept. 27; v. 290; p. 773.  
 Resilient wheel. R. P. Bibb. No. 1,395,085; Oct. 25.  
 Resilient wheel. L. Booth. No. 1,367,010; Feb. 1; v. 283; p. 25.  
 Resilient wheel. J. Crespo. No. 1,368,242; Feb. 15; v. 283; p. 371.  
 Resilient wheel. J. Cunningham. No. 1,373,652; Apr. 5; v. 285; p. 52.  
 Resilient wheel. E. E. Davis. No. 1,365,384; Jan. 11; v. 282; p. 302.  
 Resilient wheel. L. P. Erb. No. 1,400,274; Dec. 13.  
 Resilient wheel. T. C. Forbes. No. 1,391,729; Sept. 27; v. 290; p. 665.  
 Resilient wheel. J. L. Garver. No. 1,367,596; Feb. 8; v. 283; p. 199.  
 Resilient wheel. F. G. Henry. No. 1,387,777; Aug. 16; v. 289; p. 485.  
 Resilient wheel. A. Kindser. No. 1,394,024; Oct. 18.  
 Resilient wheel. R. O. King. No. 1,383,725; July 5; v. 288; p. 97.  
 Resilient wheel. W. W. Krutsch. No. 1,384,901; July 19; v. 288; p. 470.  
 Resilient wheel. H. S. Lancaster. No. 1,395,435; Nov. 1.  
 Resilient wheel. L. E. Leathers. No. 1,383,829; July 5; v. 288; p. 119.  
 Resilient wheel. C. A. Mendenhall. No. 1,366,407; Jan. 25; v. 282; p. 584.  
 Resilient wheel. R. W. Miller. No. 1,398,880; Nov. 29.  
 Resilient wheel. G. W. Morehouse. No. 1,389,153; Aug. 30; v. 289; p. 867.  
 Resilient wheel. C. Neimeyer. No. 1,401,431; Dec. 27.  
 Resilient wheel. H. Nichols. No. 1,397,140; Nov. 15.  
 Resilient wheel. A. Nin y Martinez. No. 1,383,004; June 28; v. 287; p. 674.  
 Resilient wheel. L. A. Nucera. No. 1,388,820; Aug. 23; v. 289; p. 746.  
 Resilient wheel. N. L. Olson. No. 1,382,537; June 21; v. 287; p. 531.  
 Resilient wheel. C. O. Prowse. No. 1,368,837; Feb. 15; v. 283; p. 487.  
 Resilient wheel. R. Scheel. No. 1,391,278; Sept. 20; v. 290; p. 501.  
 Resilient wheel. W. H. Schlake. No. 1,373,101. Mar. 29; v. 284; p. 849.  
 Resilient wheel. H. A. Schnittker. No. 1,397,907; Nov. 22.  
 Resilient wheel. M. F. Schoenberger. No. 1,340,845; Mar. 8; v. 284; p. 252.  
 Resilient wheel. M. Sichmeller. No. 1,372,461; Mar. 22; v. 284; p. 683.  
 Resilient wheel. C. Smith. No. 1,393,324; Oct. 11.  
 Resilient wheel. W. D. Thompson. No. 1,368,074; Feb. 8; v. 283; p. 290.  
 Resilient wheel. A. Turnbull. No. 1,393,651; Oct. 11.  
 Resilient wheel. S. D. Warner. No. 1,376,788; May 3; v. 286; p. 77.  
 Resilient wheel. G. M. Willis. No. 1,396,984; Nov. 15.  
 Resilient vehicle-wheel. T. C. Dobbins. No. 1,369,328; Feb. 22; v. 283; p. 621.  
 Resilient wheel and transmission therefor. F. N. Bardwell. No. 1,378,756; May 17; v. 286; p. 564.



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- Resin and product thereof, Modifying. G. W. Miles. No. 1,401,348; Dec. 27.
- Resin composition, Synthetic. E. Novotny and D. S. Kendall. No. 1,398,146; Nov. 22.
- Resin, Preparing. S. P. Miller. No. 1,395,968; Nov. 1.
- Resin, Producing artificial. A. L. Tannehill. No. 1,389,791; Sept. 6; v. 290; p. 47.
- Resinous composition and making same, Fusible odorless. W. E. B. Baker and H. Weaver. No. 1,373,044; Mar. 29; v. 284; p. 839.
- Resins, Making artificial. C. Ellis and H. M. Weber. No. 1,381,863; June 14; v. 287; p. 344.
- Resins, Production of. S. P. Miller and F. H. Rhodes. No. 1,365,423; Jan. 11; v. 282; p. 309.
- Resistance-box. F. W. Magin. No. 1,373,825; Apr. 5; v. 285; p. 87.
- Resistance device. E. G. Gibson. No. 1,365,481; Jan. 11; v. 282; p. 321.
- Resistance device. H. C. Nagel. No. 1,378,126; May 17; v. 286; p. 443.
- Resistance device. A. E. Waller. No. 1,373,689; Apr. 5; v. 285; p. 60.
- Resistance element. T. F. Baily and F. T. Cope. No. 1,372,830; Mar. 22; v. 284; p. 658.
- Resistance element and producing same, Electrical. J. C. Clemens. No. 1,372,842; Mar. 22; v. 284; p. 718.
- Resistance material. R. W. Stearns. No. 1,394,949; Oct. 25.
- Resistance measurement. H. A. W. Klinkhamer. No. 1,378,547; May 17; v. 286; p. 523.
- Resistance-switch. C. B. Jones. No. 1,395,579; Nov. 1.
- Resistance unit. L. Keblor. No. 1,401,477; Dec. 27.
- Resistance unit. L. Reichold. No. 1,394,937; Oct. 25.
- Resistance unit. W. Schwagermann. No. 1,366,600; Jan. 25; v. 282; p. 624.
- Resistance unit. W. Zabel. No. 1,368,678; Feb. 15; v. 283; p. 456.
- Resistance unit, Adjustable. B. F. Oler. No. 1,371,049; Mar. 8; v. 284; p. 291.
- Resistance unit, High-. F. K. Richtmyer. No. 1,388,373; Aug. 23; v. 289; p. 660.
- Resistor. E. E. F. Creighton. No. 1,394,187; Oct. 18.
- Resistor. H. H. Johnston. No. 1,387,492; Aug. 16; v. 289; p. 427.
- Resonator. J. Herzog. No. 1,397,733; Nov. 22.
- Resonator-dome for reproducers. F. W. Minor. No. 1,375,408; Apr. 19; v. 285; p. 495.
- Respirating device. E. H. Lyon. No. 1,371,702; Mar. 15; v. 284; p. 482.
- Respirator. A. B. Lamb. No. 1,366,392; Jan. 25; v. 282; p. 581.
- Respiratory apparatus, Helmet and mask for use with. A. B. Dräger. No. 1,395,948; Nov. 1.
- Restaurant, Automatic. H. A. Hall. No. 1,389,656; Sept. 6; v. 290; p. 20.
- Restaurant, Automatic. C. H. Spink and V. D. Gams. No. 1,388,975; Aug. 30; v. 289; p. 832.
- Restaurant-fixture. F. D. Jones. No. 1,399,125; Dec. 6.
- Restaurant system. L. Munteau. No. 1,377,969; May 10; v. 286; p. 361.
- Restaurant service device. J. Hutchinson. No. 1,397,809; Nov. 22.
- Restaurant, Waiterless. C. P. Paul. No. 1,389,690; Sept. 6; v. 290; p. 26.
- Resuscitator. A. N. Habberley. No. 1,368,254; Feb. 15; v. 283; p. 373.
- Retaining device, Lay-. H. Lindsay. No. 1,365,417; Jan. 11; v. 282; p. 308.
- Retaining means. R. W. Jones. No. 1,394,177; Oct. 18.
- Retort. H. M. Barr. No. 1,373,702; Apr. 5; v. 285; p. 62.
- Retort. E. E. Quinker. No. 1,385,470; July 26; v. 288; p. 664.
- Retort. S. Schieffelin. No. 1,381,936; June 21; v. 287; p. 418.
- Retorts, Charger for. W. Wild. No. 1,386,919; Aug. 9; v. 289; p. 262.
- Retort-cleaner. R. B. Finn. No. 1,370,201; Mar. 1; v. 284; p. 84.
- Retort-cleaning machine. J. Nieznalski and J. Belczynski. No. 1,392,020; Sept. 27; v. 290; p. 725.
- Retort construction, Gas-generating-. B. R. Pfeifer. No. 1,364,801; Jan. 4; v. 282; p. 145.
- Retort-stoking apparatus. A. W. Warner. No. 1,401,295; Dec. 27.
- Retort, Vertical oil-shale-treating. J. H. Galloupe. No. 1,365,822; Jan. 18; v. 282; p. 427.
- Retouching-machine. O. S. Teale. No. 1,386,909; Aug. 9; v. 289; p. 260.
- Retouching-machine. O. S. Teale. No. 1,386,910; Aug. 9; v. 289; p. 260.
- Retractor. W. J. Cameron. No. 1,374,984; Apr. 19; v. 285; p. 413.
- Retractor. W. J. Cameron. No. 1,388,170; Aug. 23; v. 289; p. 67.
- Retractor. W. J. Cameron. No. 1,389,436; Aug. 30; v. 289; p. 924.
- Return-bend. C. H. True. No. 1,384,581; July 12; v. 288; p. 324.
- Reversible brush-handle. C. Klemm. No. 1,383,820; July 5; v. 288; p. 117.
- Reversing engine control means. H. W. Sumner. No. 1,397,258; Nov. 15.
- Reversing mechanism. T. Larsson. No. 1,385,966; July 26; v. 288; p. 763.
- Reversing mechanism. E. and S. W. Lippitt. No. 1,387,855; Aug. 16; v. 289; p. 500.
- Reversing mechanism. P. W. Murphy. No. 1,379,774; May 31; v. 286; p. 902.
- Reversing mechanism. C. H. Norton. No. 1,385,970; July 26; v. 288; p. 764.
- Reversing mechanism. J. V. Petrelli. No. 1,397,111; Nov. 15.
- Reversing mechanism. A. Winton. No. 1,371,286; Mar. 15; v. 284; p. 399.
- Reversing mechanism, Automatic. E. E. Berthold. No. 1,366,690; Jan. 25; v. 282; p. 641.
- Reversing switch. B. Stechbart. No. 1,399,411; Dec. 6.
- Revolving bin. J. H. Sellers. No. 1,369,135; Feb. 22; v. 283; p. 584.
- Revolving furnace. L. P. Basset. No. 1,372,392; Mar. 22; v. 284; p. 670.
- Rheostat. E. M. Bentley. No. 1,364,687; Jan. 4; v. 282; p. 123.
- Rheostat. E. M. Bentley. No. 1,364,688; Jan. 4; v. 282; p. 123.
- Rheostat. E. M. Bentley. No. 1,371,192 Mar. 8; v. 284; p. 318.
- Rheostat. D. S. Breitenbach. No. 1,386,150; Aug. 2; v. 289; p. 38.
- Rheostat. J. T. Daniels. No. 1,364,835; Jan. 4; v. 282; p. 152.
- Rheostat. F. Diehl. No. 1,369,407; Feb. 22; v. 283; p. 636.
- Rheostat. F. A. Rojas. No. 1,366,945; Feb. 1; v. 283; p. 13.
- Rheostat. W. Schwagermann. No. 1,374,241; Apr. 12; v. 285; p. 208.
- Rheostat. C. C. Stirling. No. 1,374,332; Apr. 12; v. 285; p. 225.
- Rheostat. C. H. Teegarden. No. 1,381,093; June 7; v. 287; p. 148.
- Rheostat. A. F. Victor. No. 1,364,967; Jan. 11; v. 282; p. 222.
- Rheostat and making same. C. Wirt. No. 1,371,287; Mar. 8; v. 284; p. 399.
- Rheostat, Compression-. T. Spooner. No. 1,398,605; Nov. 29.
- Rheostat, Liquid. S. G. Nottage. No. 1,387,509; Aug. 16; v. 289; p. 430.
- Rheostat, Liquid-. J. Slepian. No. 1,376,470; May 3; v. 286; p. 18.
- Ribbon-attaching means. B. H. Tanner. No. 1,368,415; Feb. 15; v. 283; p. 404.
- Ribbing-knife. G. C. Morrison. No. 1,364,885; Jan. 11; v. 282; p. 206.
- Ribbon-meter. S. E. Parrish. No. 1,398,040; Nov. 22.
- Ribbon-moistening devices. R. M. Hodge. No. 1,366,802; Jan. 25; v. 282; p. 663.
- Ribbon recorder, Three-. F. B. Eells. No. 1,388,177; Aug. 23; v. 289; p. 619.
- Ribbon-reverse, Automatic. O. A. Hokanson. No. 1,385,547; July 26; v. 288; p. 679.
- Ribbon-reverse, Automatic. O. A. Hokanson. No. 1,385,548; July 26; v. 288; p. 680.
- Ribbon-shifting mechanism. C. Spiro. No. 1,383,776; July 5; v. 288; p. 108.
- Rice and product thereof, treating. M. M. Baumgartner. No. 1,364,912; Jan. 11; v. 282; p. 211.
- Rice for manufacturing soy. M. Oniki. No. 1,400,374; Dec. 13.
- Rice, Preparing whole. A. M. Saint. No. 1,387,560; Aug. 16; v. 289; p. 441.
- Rifle. H. E. Hines. No. 1,376,694; May 3; v. 286; p. 59.
- Rifle, Automatic. S. Oliver. No. 1,383,966; July 5; v. 288; p. 146.
- Rifle, Automatic. W. Sussman. No. 1,367,996; Feb. 8; v. 283; p. 275.
- Rifle, Automatic. I. W. Wagon. No. 1,398,452; Nov. 29.
- Rifle, Automatic. G. C. Watson. No. 1,377,236; May 10; v. 286; p. 219.
- Rifle, Dummy practice-. R. E. Reardon. No. 1,382,120; June 21; v. 287; p. 452.
- Rifle-grenade. J. V. McAdam. No. 1,375,463; Apr. 19; v. 285; p. 506.
- Rifle-sight, Adjustable front. J. H. Fletcher and E. L. Meacham. No. 1,365,236; Jan. 11; v. 282; p. 275.
- Rifles, Adjustable rear sight for. G. S. Lewis. No. 1,401,617; Dec. 27.
- Rifles, Automatically-releasable magazine for machine-. L. A. Weed. No. 1,400,252; Dec. 13.
- Rifles, guns, and small-arms, Gun-stock for. N. P. Bump. No. 1,376,917; May 3; v. 286; p. 103.
- Rifling-head. G. Garrow. No. 1,396,187; Nov. 8.
- Rifling-machine. H. M. Pope and F. A. Johnson. No. 1,368,051; Feb. 8; v. 283; p. 285.
- Rim. O. H. Jobski. No. 1,372,231; Mar. 22; v. 284; p. 639.
- Rim. O. H. Jobski. No. 1,400,956; Dec. 20.
- Rim. L. Lynch. No. 1,401,264; Dec. 27.
- Rim, L. H. Periman. No. 1,388,196; Aug. 23; v. 289; p. 623.
- Rim. W. C. Smith. No. 1,398,807; Nov. 29.
- Rim, Adjustable. D. Lazarus. No. 1,374,930; Apr. 19; v. 285; p. 403.



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- Rim and making same, Wire-wheel. F. R. Klaus. No. 1,383,467; July 5; v. 288; p. 43.
- Rim and means for fastening same, Demountable. E. M. Foster. No. 1,379,809; May 31; v. 286; p. 909.
- Rim and means for fastening same, Demountable. J. H. Wagenhorst. No. 1,397,565; Nov. 22.
- Rim and tire carrier. W. M. Dace. No. 1,381,972; June 21; v. 287; p. 424.
- Rim and tire carriers, Lock for spare. E. J. Renfrow. No. 1,379,937; May 31; v. 286; p. 933.
- Rim, Attachment or supplemental. A. R. Meadors. No. 1,365,840; Jan. 18; v. 282; p. 430.
- Rim-board. W. F. Grupe and A. A. Adamson. No. 1,379,622; May 31; v. 286; p. 875.
- Rim-breaker. E. Mazelli. No. 1,370,698; Mar. 8; v. 284; p. 225.
- Rim-clamp-attaching device. H. M. Hupman. No. 1,387,491; Aug. 16; v. 289; p. 426.
- Rim, Collapsible. O. H. Bartholomew. No. 1,372,794; Mar. 29; v. 284; p. 788.
- Rim, Collapsible. W. E. Marquart. No. 1,393,302; Oct. 11.
- Rim constricting and expanding device. J. L. Kaltreider and C. F. Shryock. No. 1,385,377; July 26; v. 288; p. 644.
- Rim construction, Demountable. E. K. Baker. No. 1,368,419; Feb. 15; v. 283; p. 405.
- Rim construction, Demountable. E. K. Baker. No. 1,399,041; Dec. 6.
- Rim construction, Demountable. J. T. Cadenhead. No. 1,378,763; May 17; v. 286; p. 565.
- Rim construction, Demountable. J. G. Swain. No. 1,391,806; Sept. 27; v. 290; p. 680.
- Rim-contractor. J. E. Burk. No. 1,379,679; May 31; v. 286; p. 889.
- Rim contractor and expander. J. Bjornlie. No. 1,399,185; Dec. 6.
- Rim contractor and expander. O. H. Uvaas. No. 1,379,426; May 24; v. 286; p. 763.
- Rim, Cushion-. E. T. Phelan. No. 1,391,074; Sept. 20; v. 290; p. 459.
- Rim, Demountable. F. G. Beron. No. 1,378,397; May 17; v. 286; p. 494.
- Rim, Demountable. A. B. Bynom. No. 1,382,887; June 28; v. 287; p. 652.
- Rim, Demountable. E. G. Blue. No. 1,392,292; Oct. 4.
- Rim, Demountable. J. T. Cadenhead. No. 1,378,764; May 17; v. 286; p. 565.
- Rim, Demountable. W. G. Canion. No. 1,389,123; Aug. 30; v. 289; p. 862.
- Rim, Demountable. A. L. Cole. No. 1,376,404; May 3; v. 286; p. 5.
- Rim, Demountable. T. E. Dunbar. No. 1,389,345; Aug. 30; v. 289; p. 906.
- Rim, Demountable. W. H. Fox. No. 1,371,676; Mar. 15; v. 284; p. 476.
- Rim, Demountable. T. G. Gerdine. No. 1,392,009; Sept. 27; v. 290; p. 723.
- Rim, Demountable. J. B. Harris. No. 1,377,771; May 10; v. 286; p. 322.
- Rim, Demountable. H. M. Howell. No. 1,383,810; July 5; v. 288; p. 115.
- Rim, Demountable. E. E. Jameson, and T. Kameron. No. 1,367,395; Feb. 1; v. 283; p. 102.
- Rim, Demountable. W. F. Laing. No. 1,377,079; May 3; v. 286; p. 134.
- Rim, Demountable. W. S. Martin. No. 1,396,134; Nov. 8.
- Rim, Demountable. F. K. Mallison. No. 1,378,968; May 24; v. 286; p. 676.
- Rim, Demountable. A. Minnick. No. 1,390,576; Sept. 13; v. 290; p. 296.
- Rim, Demountable. F. H. Moyer. (Relssue.) No. 15,166; July 26; v. 288; p. 766.
- Rim, Demountable. F. H. Moyer. No. 1,401,430; Dec. 27.
- Rim, Demountable. C. V. Nachand and E. M. Rahm. No. 1,384,774; July 19; v. 288; p. 445.
- Rim, Demountable. E. Oliver. No. 1,372,537; Mar. 22; v. 284; p. 697.
- Rim, Demountable. O. A. Parker. No. 1,376,035; Apr. 26; v. 285; p. 647.
- Rim, Demountable. O. A. Parker. No. 1,384,274; July 12; v. 288; p. 260.
- Rim, Demountable. C. D. Paxson. No. 1,364,515; Jan. 4; v. 282; p. 91.
- Rim, Demountable. F. G. Peace. No. 1,396,589; Nov. 8.
- Rim, Demountable. L. H. Perlman. No. 1,374,105; Apr. 5; v. 285; p. 141.
- Rim, Demountable. E. Rogowski. No. 1,397,823; Nov. 22.
- Rim, Demountable. J. Sieven. No. 1,365,555; Jan. 11; v. 282; p. 335.
- Rim, Demountable. L. U. Stenger and R. Summerfield. No. 1,378,494; May 17; v. 286; p. 513.
- Rim, Demountable. A. W. Woodward. No. 1,375,435; Apr. 19; v. 285; p. 500.
- Rim, Demountable automobile. M. Kohl and W. Renner. No. 1,374,585; Apr. 12; v. 285; p. 275.
- Rim expanding and contracting tool. L. L. Park and W. W. Byles. No. 1,391,526; Sept. 20; v. 290; p. 551.
- Rim fastener, Demountable. P. O. Witte. No. 1,389,410; Aug. 30; v. 289; p. 919.
- Rim fastening, Demountable. J. H. Wagenhorst. No. 1,368,669; Feb. 15; v. 283; p. 455.
- Rim-finishing machine. G. F. Fisher. No. 1,381,177; June 14; v. 287; p. 216.
- Rim lock, Demountable. R. M. Baird. No. 1,390,187; Sept. 6; v. 290; p. 127.
- Rim lock, Demountable. T. B. Worthington. No. 1,371,832; Mar. 15; v. 284; p. 506.
- Rim-lug. W. E. Boles. No. 1,365,582; Jan. 11; v. 282; p. 341.
- Rim-nut. M. C. Schweinert. No. 1,398,604; Nov. 29.
- Rim-operating lever, Demountable. E. M. Foster. No. 1,394,989; Oct. 25.
- Rim-operating tool. L. H. Perlman. No. 1,374,102; Apr. 5; v. 285; p. 140.
- Rim-operating tool. L. H. Perlman. No. 1,388,194; Aug. 23; v. 289; p. 623.
- Rim-operating tool, Demountable. L. H. Perlman. No. 1,388,195; Aug. 23; v. 289; p. 623.
- Rim, Quick-acting, demountable. E. Bunzel. No. 1,397,573; Nov. 22.
- Rim-repairing machine. L. C. McDonald. No. 1,377,845; May 10; v. 286; p. 337.
- Rim, Sectional. H. S. Williams. No. 1,379,888; May 31; v. 286; p. 924.
- Rim, Sectional demountable. J. G. Kuenzinger. No. 1,401,542; Dec. 27.
- Rim, Split. F. and M. Wells. No. 1,398,659; Nov. 29.
- Rim-tool. S. J. Hurwitz. No. 1,392,943; Oct. 11.
- Rim-tool. F. E. Small. No. 1,390,826; Sept. 13; v. 290; p. 346.
- Rim-tool. F. Weiss. No. 1,387,526; Aug. 16; v. 289; p. 434.
- Rim tool, Automobile, demountable. O. M. Rice. No. 1,383,856; July 5; v. 288; p. 124.
- Rim wedge, Demountable. G. E. Voorhees, Jr. No. 1,385,029; July 19; v. 288; p. 498.
- Rim, Wheel-. H. M. Lambert. No. 1,393,030; Oct. 11.
- Rim, Wheel-. A. H. and G. M. Momeyer. No. 1,394,330; Oct. 18.
- Rims, Expanding device for wheel-. J. F. England. No. 1,399,012; Dec. 6.
- Rims, Fixed rim and locking-ring structure for demountable. L. B. Harvey. No. 1,399,961; Dec. 13.
- Rims, Tool for demountable. W. H. Baskin. No. 1,396,617; Nov. 8.
- Rims, Tool for demountable. O. M. Rice. No. 1,398,801; Nov. 29.
- Ring: See—
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| Attaching-ring.                            | Lubricating-ring.         |
| Conduit or cable clamp and<br>bridle-ring. | Obturator-ring.           |
| Coupling-ring.                             | Oil-ring.                 |
| Dental casting-ring.                       | Packing-ring.             |
| Engine piston-ring.                        | Permutation locking-ring. |
| Finger-ring.                               | Piston packing-ring.      |
| Hog-ring.                                  | Piston-ring.              |
| Key-ring.                                  | Rotary packing-ring.      |
| Lighting-ring.                             | Slide-ring.               |
|  | Spring-ring.              |
- Ring. W. G. Ginder. No. 1,395,488; Nov. 1.
- Ring-casting pattern, Finger-. D. T. Moats. No. 1,389,315; Aug. 30; v. 289; p. 900.
- Ring-rolling machine. J. Eckert. No. 1,367,540; Feb. 8; v. 283; p. 189.
- Ring-setting. R. Rosenthal. No. 1,400,460; Dec. 13.
- Ring spinning and doubling frames and the like, Cam for. J. R. Williams. No. 1,366,442; Jan. 25; v. 282; p. 592.
- Ring-spinning and doubling frames, Antiballooning and the like device for. F. Fielding and T. Potter, Jr. No. 1,391,883; Sept. 27; v. 290; p. 696.
- Ring support, Collector-. T. Schou and R. L. Behrens. No. 1,378,564; May 17; v. 286; p. 526.
- Rings, Apparatus for contracting. E. T. Greenfield and J. G. V. Lang. No. 1,384,752; July 19; v. 288; p. 440.
- Rings, Apparatus for hammering piston-. C. Laufet. No. 1,377,967; May 10; v. 286; p. 361.
- Rings, Jeweler's forming and clamping device for finger-. F. E. Heck. No. 1,368,797; Feb. 15; v. 283; p. 479.
- Rings, Machine for making. J. F. Crawford. No. 1,390,507; Sept. 13; v. 290; p. 282.
- Rings, Manufacturing metal. F. Mossberg. No. 1,377,266; May 10; v. 286; p. 225.
- Rings, Means for stamping circular. H. F. Voshardt. No. 1,370,387; Mar. 1; v. 284; p. 119.
- Rings with threads, especially for making thread-buttons, Machine for covering. A. Dangl. No. 1,396,626; Nov. 8.
- Ringer, Composite. R. B. Shanck. No. 1,366,423; Jan. 25; v. 282; p. 587.
- Rivet and riveting with same, Self-heating. J. H. Gravell. No. 1,382,906; June 28; v. 287; p. 655.
- Rivet-gage. M. Zigray. No. 1,375,747; Apr. 26; v. 285; p. 591.
- Rivet-heater and riveter. A. L. Atherton. No. 1,376,501; May 3; v. 286; p. 23.
- Rivet-heater, Electric. F. T. Kitt. No. 1,374,453; Apr. 12; v. 285; p. 249.
- Rivet holder-on jam, Universal. J. H. Schmidt and L. Ahlers. No. 1,400,571; Dec. 20.
- Rivet manufacture. H. C. Hinchcliff. No. 1,388,566; Aug. 23; v. 289; p. 697.
- Rivet or fastener. R. L. Smith. No. 1,385,799; July 26; v. 288; p. 731.
- Rivet-passing apparatus, Pneumatic. W. B. Furman. No. 1,385,820; July 26; v. 288; p. 735.
- Rivet-tester. F. A. Howard. No. 1,371,484; Mar. 15; v. 284; p. 439.



## Alphabetical list of inventions—Continued.

- Rivets tight, Device for making leaky. F. A. Howard. No. 1,371,485; Mar. 15; v. 284; p. 440.
- Riveting and apparatus therefor. H. B. Cox. No. 1,365,664; Jan. 18; v. 282; p. 395.
- Riveting-machine. H. C. Giles. No. 1,394,506; Oct. 18.
- Riveting-machine. O. E. Houser. No. 1,373,427; Apr. 5; v. 285; p. 9.
- Riveting-machine. W. H. Kennedy. No. 1,382,293; June 21; v. 287; p. 484.
- Riveting-machine. J. L. L. Krook. No. 1,375,395; Apr. 19; v. 285; p. 492.
- Riveting-machine, Automatic. F. J. Greene. No. 1,392,494; Oct. 4.
- Riveting machinery. C. R. Engel. No. 1,383,915; July 5; v. 288; p. 136.
- Riveting-tool. A. I. Allbright and F. L. Myatt. No. 1,384,374; July 12; v. 288; p. 281.
- Riving device. L. H. Holland. No. 1,383,208; June 28; v. 287; p. 713.
- Road and rail wheel. S. S. Saxton. No. 1,372,910; Mar. 29; v. 284; p. 813.
- Road-building machine. S. F. Austin. No. 1,399,681; Dec. 6.
- Road-building machine. T. F. Bower. No. 1,393,341; Oct. 11.
- Road-building machine. J. W. Heltzel. No. 1,380,379; June 7; v. 287; p. 11.
- Road-building, Turntable for use in. H. C. Reed. No. 1,365,953; Jan. 18; v. 282; p. 453.
- Road-clearer. S. Immer. No. 1,392,166; Sept. 27; v. 290; p. 753.
- Road construction. A. R. Bullock. No. 1,367,236; Feb. 1; v. 283; p. 71.
- Road-construction machinery. H. P. Martin. No. 1,384,077; July 12; v. 288; p. 219.
- Road-drag. J. A. Guttridge and J. A. Wood. No. 1,394,548; Oct. 25.
- Road-drag. H. A. Larson. No. 1,401,614; Dec. 27.
- Road-finishing machines, Strike-off for. G. Maxon, Jr. No. 1,386,348; Aug. 2; v. 289; p. 76.
- Road-machine. O. M. Lackie. No. 1,393,724; Oct. 11.
- Road-making machinery. J. W. McLaren. No. 1,369,977; Mar. 1; v. 284; p. 42.
- Road rail or form. H. B. Loxterman. No. 1,379,457; May 24; v. 286; p. 769.
- Road scraping, grading, and ditching machine. G. R. Cook. No. 1,374,824; Apr. 12; v. 285; p. 320.
- Road-sprinkler. H. Mayer, G. Schlatter, and A. Balten-sweiler. No. 1,376,108; Apr. 26; v. 285; p. 661.
- Road structure and making. J. S. Burdge. No. 1,390,194; Sept. 6; v. 290; p. 128.
- Road-surfacing machine. J. W. Lee. No. 1,378,880; May 24; v. 286; p. 660.
- Road-vehicle signal. O. Lehmann. No. 1,379,996; May 31; v. 286; p. 944.
- Road-vehicle signal. O. Lehmann. No. 1,399,778; Dec. 13.
- Road-wheel of the sheet-metal type. H. Austin. (Reissue.) No. 15,032; Jan. 25; v. 282; p. 683.
- Road-working machine. N. S. and A. J. Monroe. No. 1,397,011; Nov. 15.
- Road-working machine. D. C. Mowry. No. 1,384,207; July 12; v. 288; p. 246.
- Road-working machine. D. C. Mowry. No. 1,395,450; Nov. 1.
- Roads and streets, Pavement for. C. H. Purcell and L. I. Hewes. No. 1,393,699; Oct. 11.
- Roads, Grading roadbeds for concrete. R. D. Baker. No. 1,392,674; Oct. 4.
- Roads, Machine for making macadamized. C. J. Åberg. No. 1,377,302; May 10; v. 286; p. 232.
- Roads, Road-plate for protecting. J. Lourim. No. 1,375,792; Apr. 26; v. 285; p. 600.
- Roadbed construction. C. J. Roelker. No. 1,387,184; Aug. 9; v. 289; p. 314.
- Roadbed-plate. C. Short. No. 1,372,099; Mar. 22; v. 284; p. 613.
- Roadster-body, Convertible. C. A. Deas. No. 1,383,262; June 28; v. 287; p. 723.
- Roadway. R. Greene. No. 1,379,813; May 31; v. 286; p. 910.
- Roadway. S. B. Moore. No. 1,383,228; June 28; v. 287; p. 716.
- Roadway-crossing signal. C. Adler, Jr. No. 1,394,264; Oct. 18.
- Roaster: See—
- Meat-roaster.
- Roaster. A. A. Greenick. No. 1,394,412; Oct. 18.
- Roaster. F. J. Kublemeier and R. J. Quelle. No. 1,377,591; May 10; v. 286; p. 287.
- Robbers and the like, Guard for protection against holdup. L. Simmons. No. 1,374,770; Apr. 12; v. 285; p. 810.
- Robe-clamp. W. G. Stretch. No. 1,376,049; Apr. 26; v. 285; p. 649.
- Robe-holder. E. G. Lavoie. No. 1,383,730; July 5; v. 288; p. 98.
- Robe-holder. D. O. Henderson. No. 1,377,682; May 10; v. 286; p. 305.
- Rock-crusher. J. F. Betchkaw. No. 1,396,016; Nov. 8.
- Rock-crusher. C. O. Michaelsen. (Reissue.) No. 15,179; Aug. 16; v. 289; p. 558.
- Rock-crusher roll. W. G. Stevenson. No. 1,377,370; May 10; v. 286; p. 246.
- Rock-drill. O. E. Clark. No. 1,388,406; Aug. 23; v. 289; p. 666.
- Rock-drill. G. H. Gilman. No. 1,382,778; June 28; v. 287; p. 631.
- Rock-drill. G. H. Gilman. No. 1,382,779; June 28; v. 287; p. 632.
- Rock-drill. W. A. Smith. No. 1,384,216; July 12; v. 288; p. 248.
- Rock-drill. T. Turner. No. 1,389,539; Aug. 30; v. 289; p. 944.
- Rock-drill. J. C. Wright. No. 1,393,257; Oct. 11.
- Rock-drill, Pneumatic. C. R. Welch. No. 1,391,708; Sept. 27; v. 290; p. 661.
- Rock-drill steels, Apparatus for blowing bores of. E. L. Oldham and J. L. Barra. No. 1,395,202; Oct. 25.
- Rock-drills, Feed device for. S. Fisher. No. 1,374,996; Apr. 19; v. 285; p. 416.
- Rock-drilling machine. R. A. W. Krampitz. No. 1,386,633; Aug. 9; v. 289; p. 203.
- Rock-drilling machine. E. E. Peterson. No. 1,379,283; May 24; v. 286; p. 736.
- Rock-drilling steels, Means for opening the bores of. G. M. Nell. No. 1,388,437; Aug. 23; v. 289; p. 673.
- Rocker, Cradle. W. Phillou. No. 1,370,359; Mar. 1; v. 284; p. 114.
- Rocker-shafts, Support for. B. V. Nordberg. No. 1,397,598; Nov. 22.
- Rocker-swing. J. W. Bunt. No. 1,369,616; Feb. 22; v. 283; p. 677.
- Rocket. W. W. Case. No. 1,376,797; May 3; v. 286; p. 79.
- Rocking and revolving chair, Combined. C. E. Baum and R. A. Peacock. No. 1,395,698; Nov. 1.
- Rocking seat for children. B. L. Blocker. No. 1,374,902; Apr. 19; v. 285; p. 398.
- Rocking-chair. J. A. Olbon. No. 1,380,241; May 31; v. 286; p. 990.
- Rocking-chair. A. H. Prest. No. 1,377,600; May 10; v. 286; p. 289.
- Rocking-chair. A. Rudnicke. No. 1,399,155; Dec. 6.
- Rocking-horse, Child's skid. C. W. Magnat, Jr. No. 1,377,423; May 10; v. 286; p. 256.
- Rod: See—
- Adjustable radius-rod. Front-axle radius-rod.
- Coal-mine curtain-rod. Push-rod.
- Connecting-rod. Radius-rod.
- Curtain-rod. Stadia-rod.
- End-gate rod. Stair-rod.
- Fishing-rod. Steering reach-rod.
- Rod and crank-shaft, Connecting. J. Cawley and F. Hills. No. 1,399,713; Dec. 6.
- Rod and forming it, Composite. W. H. Kempton. No. 1,370,023; Mar. 1; v. 284; p. 51.
- Rod and ornament, Combined. S. H. Gibson. No. 1,376,330; Apr. 26; v. 285; p. 704.
- Rod bearing, Connecting. J. W. Jagoe. No. 1,367,977; Feb. 8; v. 283; p. 272.
- Rod-clamp, Adjustable. G. F. Newton. No. 1,378,267; May 17; v. 286; p. 470.
- Rod clamp, Polished. E. P. Weister. No. 1,396,610; Nov. 8.
- Road-coupling. J. M. Humiston. No. 1,389,661; Sept. 6; v. 290; p. 21.
- Rod-coupling. W. Kippenhan. No. 1,390,042; Sept. 6; v. 290; p. 98.
- Rod-coupling. F. W. Krogh. No. 1,377,418; May 10; v. 286; p. 255.
- Rod-elevator. R. C. McMichael. No. 1,367,273; Feb. 1; v. 283; p. 78.
- Rod-puller. W. Wilcox and C. La Duke. No. 1,389,469; Aug. 30; v. 289; p. 930.
- Rod socket or coupling. J. A. Day. No. 1,379,903; May 31; v. 286; p. 926.
- Rod-splice. C. A. Nelson. No. 1,368,191; Feb. 8; v. 283; p. 313.
- Rods, Device for babbitting, reaming, and straightening connecting. C. G. Patmon. No. 1,368,194; Feb. 8; v. 283; p. 314.
- Rods, Joint for articulated connecting. F. H. Royce. No. 1,369,547; Feb. 22; v. 283; p. 664.
- Rods, Making connecting. H. B. Layman. No. 1,378,690; May 17; v. 286; p. 551.
- Rods, pipes, &c., Method of and apparatus for pickling. J. T. Moltrup. No. 1,393,633; Oct. 11.
- Rodent-trap. J. M. Wolfe. No. 1,366,995; Feb. 1; v. 283; p. 22.
- Roll. E. Reed. No. 1,384,806; July 19; v. 288; p. 452.
- Roll-adjusting mechanism. R. W. Moses. No. 1,388,587; Aug. 23; v. 289; p. 701.
- Roll and package. O. A. Heppes. No. 1,380,475; June 7; v. 287; p. 29.
- Roll-holder. W. Z. Murray. No. 1,398,646; Nov. 29.
- Roll-holding cages, Assembling. J. Bingham. No. 1,387,830; Aug. 16; v. 289; p. 495.
- Roll-polisher. W. G. Crawford. No. 1,369,086; Feb. 22; v. 283; p. 574.
- Roll, Signature. M. Davis. No. 1,369,519; Feb. 22; v. 283; p. 658.
- Roll-stands, Pressure mechanism for. E. J. Vales and J. T. Bishop. No. 1,387,816; Aug. 16; v. 289; p. 492.
- Roll, Stock. W. F. Gammeter. No. 1,392,321; Oct. 4.
- Roll-support. L. Flick. No. 1,379,588; May 24; v. 286; p. 793.
- Rolls, Driving-gear especially for groups of. H. Kay. No. 1,397,893; Nov. 24.



*Alphabetical list of inventions—Continued.*

- Rolls, Making chilled. W. H. Nichols. No. 1,374,517; Apr. 12; v. 285; p. 262.
- Rolls, Means for regulating the temperature of. J. G. Maxwell. No. 1,366,581; Jan. 25; v. 282; p. 620.
- Rolls, Method and mechanism for finishing. T. V. Buckwalter. No. 1,373,051; Mar. 29; v. 284; p. 840.
- Rolls, Reclaiming broken. T. B. Golden. No. 1,379,975; May 31; v. 286; p. 941.
- Roller: See—
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| Abrasive roller.         | Shade-roller.              |
| Inking-roller.           | Tamping-roller.            |
| Measuring-roller.        | Tread-roller.              |
| Printer's inking-roller. | Water-cooled glass-roller. |
| Rubber-covered roller.   |                            |
- Roller-bearing. J. Sharpe. No. 1,367,519; Feb. 1; v. 283; p. 126.
- Roller-bearing swivel-wrench, Safety. B. H. Abernathy. No. 1,383,274; July 5; v. 288; p. 3.
- Roller-boring drill. H. W. Fletcher. No. 1,388,456; Aug. 23; v. 289; p. 677.
- Roller construction. D. Turner. No. 1,390,312; Sept. 13; v. 290; p. 243.
- Roller conveyor. G. H. Spear. No. 1,366,966; Feb. 1; v. 283; p. 16.
- Roller copying-machine. E. Lichtenstein. No. 1,378,697; May 17; v. 286; p. 553.
- Roller-distributor. J. M. López. No. 1,372,177; Mar. 22; v. 284; p. 628.
- Roller-fender. W. F. Clayton. No. 1,377,115; May 3; v. 286; p. 140.
- Roller-mill. J. Jones. No. 1,366,463; Jan. 25; v. 282; p. 596.
- Roller or like machine element. F. V. Hetzel. No. 1,372,510; Mar. 22; v. 284; p. 692.
- Roller or like machine part. F. V. Hetzel. No. 1,372,509; Mar. 22; v. 284; p. 692.
- Roller-perforating machine and strippers therefor. F. Rogers. No. 1,365,855; Jan. 18; v. 282; p. 433.
- Roller-pressure device. C. M. Rogers. No. 1,387,910; Aug. 16; v. 289; p. 510.
- Roller-screen. J. Mugno, Jr. No. 1,373,256; Mar. 29; v. 284; p. 881.
- Roller-skate brake. A. Ickenroth. No. 1,371,623; Mar. 15; v. 284; p. 466.
- Roller-table. E. W. Mikaelson. No. 1,371,322; Mar. 15; v. 284; p. 406.
- Roller transfer-table. J. S. Worth. No. 1,390,853; Sept. 13; v. 290; p. 351.
- Rollers, Grinding of antifriction-. J. Bass. No. 1,375,890; Apr. 26; v. 285; p. 619.
- Rollers, Manufacturing printers'. S. Kutner. No. 1,379,109; May 24; v. 286; p. 703.
- Rollers of exact dimensions, Method of and means for manufacturing conical. B. W. Fjellman. No. 1,380,370; June 7; v. 287; p. 9.
- Rolling chair, Convertible. C. B. Steele. No. 1,393,461; Oct. 11.
- Rolling fender. J. H. Wright. No. 1,376,910; May 3; v. 286; p. 101.
- Rolling machine, Bead-. J. F. Pierce. No. 1,370,557; Mar. 8; v. 284; p. 197.
- Rolling-machines, Plate-lifting mechanism for. T. McCabe. No. 1,389,521; Aug. 30; v. 289; p. 941.
- Rolling-mill. A. I. Crook. No. 1,370,291; Mar. 1; v. 284; p. 102.
- Rolling-mill. G. E. Foster. No. 1,382,827; June 28; v. 287; p. 640.
- Rolling-mill. H. R. Geer. No. 1,364,989; Jan. 11; v. 282; p. 226.
- Rolling-mill. H. A. Roemer. No. 1,370,998; Mar. 8; v. 284; p. 281.
- Rolling-mill. W. H. Sommer. No. 1,370,063; Mar. 1; v. 284; p. 58.
- Rolling-mill. W. H. Sommer. No. 1,373,029; Mar. 29; v. 284; p. 836.
- Rolling-mill. A. D. Stevens. No. 1,367,838; Feb. 8; v. 283; p. 245.
- Rolling-mill. J. S. Worth. No. 1,373,850; Apr. 5; v. 285; p. 91.
- Rolling-mill apparatus for making hollow bars. W. Jenkins. No. 1,386,115; Aug. 2; v. 289; p. 31.
- Rolling-mill for bending angle or channel iron into different angles. J. P. Eckenroth. No. 1,397,271; Nov. 15.
- Rolling-mill table. L. R. James. No. 1,367,052; Feb. 1; v. 283; p. 34.
- Rolling mill, Tire-. C. L. Taylor. No. 1,372,049; Mar. 22; v. 284; p. 604.
- Rolling-mill, Universal. C. W. A. Koelkebeck. No. 1,387,650; Aug. 16; v. 289; p. 459.
- Rolling-mills, Apparatus for controlling the temperature of. J. B. McKibbin. No. 1,370,332; Mar. 1; v. 284; p. 109.
- Rolling-mills, Controlling the temperature of. J. B. McKibbin. No. 1,370,331; Mar. 1; v. 284; p. 109.
- Rolling-mills, Gear-drive for. L. Iversen. No. 1,401,260; Dec. 27.
- Rolling-mills, Guide-box for. A. Cullen. No. 1,398,843; Nov. 29.
- Rolling-mills, Roll-carriage for. H. R. Geer. No. 1,369,334; Feb. 22; v. 283; p. 622.
- Rolling-mills, Stripper for. P. C. Haldeman. No. 1,401,773; Dec. 27.
- Rolling or bending machine. C. M. Yoder. No. 1,376,497; May 3; v. 286; p. 22.
- Rolling-pin. W. Harris. No. 1,385,916; July 26; v. 288; p. 754.
- Rolling screen. J. Hermacki. No. 1,371,892; Mar. 15; v. 284; p. 517.
- Röntgen-ray and like apparatus. G. G. Campion. No. 1,378,007; May 17; v. 286; p. 420.
- Roof. E. T. Gatrell and C. R. Neill. No. 1,369,236; Feb. 22; v. 283; p. 604.
- Roof. C. A. Statler. No. 1,372,208; Mar. 22; v. 284; p. 634.
- Roof and wall covering, Composition for. T. H. and H. Brown. No. 1,369,911; Mar. 1; v. 284; p. 30.
- Roof-coating applicator. F. I. Cannon. No. 1,393,747; Oct. 18.
- Roof leader connection. B. Goldman. No. 1,380,793; June 7; v. 287; p. 90.
- Roof-rafter cuts, Implement for marking. W. A. Winn. No. 1,389,556; Aug. 30; v. 289; p. 948.
- Roof, Shingle. W. W. Lewis. No. 1,368,947; Feb. 15; v. 283; p. 508.
- Roof structure. W. F. Ballinger and C. H. Shivers. (Reissue.) No. 15,133; June 28; v. 287; p. 275.
- Roof structure. H. E. Marks. No. 1,398,079; Nov. 22.
- Roof structure, Trussed-. W. J. Summerbell. No. 1,392,882; Oct. 4.
- Roof-truss. S. D. Knudsen. No. 1,391,122; Sept. 20; v. 290; p. 469.
- Roof-truss. N. J. Wagner. No. 1,392,096; Sept. 27; v. 290; p. 739.
- Roof-truss. H. O. F. Wilkens. No. 1,367,510; Feb. 1; v. 283; p. 125.
- Roofs, &c., Plastic waterproof covering for. B. W. and D. O'Connell. No. 1,370,990; Mar. 8; v. 284; p. 280.
- Roofing. M. H. Elvidge. No. 1,365,970; Jan. 18; v. 282; p. 456.
- Roofing. C. C. Millard. No. 1,376,215; Apr. 26; v. 285; p. 681.
- Roofing and apparatus used in connection therewith, Making prepared. O. A. Heppes and E. E. Rahr. No. 1,392,498; Oct. 4.
- Roofing, barrels, boxes, &c., Apparatus for handling rolls of. A. E. F. Moore. No. 1,401,429; Dec. 27.
- Roofing, Bordering for. F. M. Traphagan. No. 1,377,610; May 10; v. 286; p. 291.
- Roofing-bracket. E. M. Price. No. 1,369,837; Mar. 1; v. 284; p. 16.
- Roofing-clamp. C. Carson. No. 1,397,033; Nov. 15.
- Roofing, Cleat for sheet-metal. C. B. Edwards. No. 1,376,751; May 3; v. 286; p. 70.
- Roofing, Container and protector for roll-. R. F. Holway. No. 1,365,403; Jan. 11; v. 282; p. 305.
- Roofing-felt. A. L. Clapp. No. 1,374,187; Apr. 12; v. 285; p. 197.
- Roofing, Glass-house. P. W. Jannoch. No. 1,397,762; Nov. 22.
- Roofing, Making prepared. H. Cumfer and O. D. McFarland. No. 1,394,149; Oct. 18.
- Roofing material and joining the ends of felt in making same. O. Kiracofe. No. 1,383,726; July 5; v. 288; p. 98.
- Roofing, Method and apparatus for ornamenting prepared. E. Ross. No. 1,369,129; Feb. 22; v. 283; p. 583.
- Roofing, Producing ornamental. F. C. Overbury. No. 1,398,272; Nov. 29.
- Roofing-sheet. D. W. Haworth. No. 1,374,299; Apr. 12; v. 285; p. 219.
- Roofing, Sheet-. E. J. Yetter. No. 1,398,250; Nov. 29.
- Roofing-sheet and the like, Surface-embossed. J. C. Woodley. No. 1,366,146; Jan. 18; v. 282; p. 489.
- Roofing-slabs, Making. A. S. Speer. No. 1,379,727; May 31; v. 286; p. 894.
- Roofing, Surface-finishing of bituminous-composition. J. C. Woodley. No. 1,384,110; July 12; v. 288; p. 226.
- Roofing, Surfacing-machine for. L. F. Lindley and A. S. Speer. No. 1,384,534; July 12; v. 288; p. 314.
- Roofing-tile. B. L. Bacot. No. 1,391,603; Sept. 20; v. 290; p. 566.
- Roofing units, Apparatus for making and packaging. F. C. Overbury. No. 1,365,947; Jan. 18; v. 282; p. 452.
- Roost, Chicken-. T. C. Beatty. No. 1,371,216; Mar. 15; v. 284; p. 385.
- Roost, Chicken-. J. W. McCoy. No. 1,395,849; Nov. 1.
- Root-cutters, kibbling-mills, and like machines used for agricultural purposes, Construction of frames for stands for. G. C. Bingham. No. 1,366,053; Jan. 18; v. 282; p. 472.
- Root-puller. C. E. Reitz. No. 1,364,807; Jan. 4; v. 282; p. 146.
- Rope, Apparatus for making ornamental. C. A. Reed. No. 1,392,795; Oct. 4.
- Rope-clamp. O. Crosby. No. 1,373,800; Apr. 5; v. 285; p. 81.
- Rope-clamp. J. B. Leeper. No. 1,370,544; Mar. 8; v. 284; p. 195.
- Rope-clamp. J. Oppman. No. 1,399,647; Dec. 6.
- Rope conveyor. A. Derungs. No. 1,397,368; Nov. 15.
- Rope-coupling. C. A. Pettit. No. 1,374,469; Apr. 12; v. 285; p. 252.
- Rope-end head. W. L. Officer. No. 1,388,663; Aug. 23; v. 289; p. 716.
- Rope-end head. W. L. Officer. No. 1,388,664; Aug. 23; v. 289; p. 716.



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- Rope-grip. J. G. Anderson. No. 1,367,762; Feb. 8; v. 283; p. 231.
- Rope-grip. J. Z. Benedict. No. 1,399,182; Dec. 6.
- Rope-grip. W. Travell. No. 1,397,259; Nov. 15.
- Rope-holder. J. W. Abel. No. 1,397,120; Nov. 15.
- Rope-holder. T. Thorson. No. 1,368,667; Feb. 15; v. 283; p. 454.
- Rope, Jumping-. P. Logan. No. 1,371,915; Mar. 15; v. 284; p. 522.
- Rope-knife. H. W. McElhattan. No. 1,368,951; Feb. 15; v. 283; p. 951.
- Rope-making, Spreader and swivel for. W. G. Smith. No. 1,366,429; Jan. 25; v. 282; p. 589.
- Rope-sheaves and support. W. E. Hale. No. 1,398,855; Nov. 29.
- Rope-socket. W. D. Shaffer. No. 1,384,489; July 12; v. 288; p. 304.
- Rope-socket. C. N. Tinton. No. 1,387,481; Aug. 16; v. 289; p. 424.
- Rope-socket, Swivel-jar. E. A. Greve. No. 1,371,479; Mar. 15; v. 284; p. 438.
- Rope tightener, Tent-. J. V. Lofquist. No. 1,400,445; Dec. 13.
- Rope-tightening device. A. C. Kienlen. No. 1,382,366; June 21; v. 287; p. 498.
- Rope-winding apparatus. N. D. Levin. No. 1,378,357; May 17; v. 286; p. 486.
- Ropes, cordage, &c., Retaining and releasing device for. P. W. Schollar. No. 1,392,260; Sept. 27; v. 290; p. 773.
- Rosin product. J. A. De Cew. No. 1,394,610; Oct. 25.
- Rosin size solution. J. A. De Cew. No. 1,382,346; June 21; v. 287; p. 494.
- Rosin, Treating. F. M. Rogers and C. P. McNeil. No. 1,381,504; June 14; v. 287; p. 275.
- Rotary bit. E. A. George. No. 1,388,424; Aug. 23; v. 289; p. 670.
- Rotary boiler. K. Hellner. No. 1,390,965; Sept. 13; v. 290; p. 375.
- Rotary boring-drill. F. L. O. Wadsworth. No. 1,365,134; Jan. 11; v. 282; p. 254.
- Rotary boring-drill. F. L. O. Wadsworth. No. 1,374,867; Apr. 12; v. 285; p. 329.
- Rotary boring-drill. F. L. O. Wadsworth. No. 1,388,496; Aug. 23; v. 289; p. 684.
- Rotary boring-drill. F. L. O. Wadsworth. No. 1,388,497; Aug. 23; v. 289; p. 684.
- Rotary cutters, Grinding-machine for. H. M. Loomer. No. 1,386,638; Aug. 9; v. 289; p. 204.
- Rotary earth-boring drill. J. R. Suman. No. 1,388,490; Aug. 23; v. 289; p. 683.
- Rotary engine. F. I. L. Bylger. No. 1,376,397; May 3; v. 286; p. 4.
- Rotary engine. J. D. Carroll. No. 1,365,226; Jan. 11; v. 282; p. 271.
- Rotary engine. D. N. Clark. No. 1,367,801; Feb. 8; v. 283; p. 239.
- Rotary engine. P. Ericson. No. 1,383,916; July 5; v. 288; p. 136.
- Rotary engine. O. B. Hejhal. No. 1,372,750; Mar. 29; v. 284; p. 780.
- Rotary engine. F. L. Horspool. No. 1,379,028; May 24; v. 286; p. 688.
- Rotary engine. A. B. Johnson. No. 1,378,415; May 17; v. 286; p. 408.
- Rotary engine. S. J. Johnson. No. 1,364,438; Jan. 4; v. 282; p. 76.
- Rotary engine. L. V. Johnson. No. 1,401,336; Dec. 27.
- Rotary engine. J. M. MacFarlane. No. 1,385,084; July 19; v. 288; p. 509.
- Rotary engine. S. D. Master. No. 1,385,880; July 26; v. 288; p. 747.
- Rotary engine. O. E. Peterson. No. 1,378,897; May 24; v. 286; p. 663.
- Rotary engine. H. H. Shoemaker. No. 1,379,653; May 31; v. 286; p. 880.
- Rotary engine. A. B. Smith. No. 1,387,949; Aug. 16; v. 289; p. 118.
- Rotary engine. G. H. Stearns. No. 1,378,430; May 17; v. 286; p. 501.
- Rotary engine. M. A. Wimberley. No. 1,381,531; June 14; v. 287; p. 281.
- Rotary engine, Internal-combustion. E. C. Des Enfants and F. A. Hummel. No. 1,364,256; Jan. 4; v. 282; p. 41.
- Rotary explosive-engine. T. H. Duncombe. No. 1,367,591; Feb. 8; v. 283; p. 198.
- Rotary explosive-engine. F. B. Marvin. No. 1,366,919; Feb. 1; v. 283; p. 8.
- Rotary furnace. F. Dernen. No. 1,372,406; Mar. 22; v. 284; p. 673.
- Rotary gas-engine. B. F. Augustine. No. 1,382,611; June 28; v. 287; p. 599.
- Rotary gas-engine. B. F. Augustine. No. 1,382,612; June 28; v. 287; p. 599.
- Rotary internal-combustion engine. O. L. Scott. No. 1,368,359; Feb. 15; v. 283; p. 394.
- Rotary into reciprocating movements, Machines for translating. N. D. Stewart. No. 1,384,360; July 12; v. 288; p. 278.
- Rotary-machine driving mechanism. A. B. Boyer. No. 1,378,088; May 17; v. 286; p. 436.
- Rotary motor. W. H. Fisher. No. 1,395,267; Nov. 1.
- Rotary motor. G. Nollmann. No. 1,388,438; Aug. 23; v. 289; p. 673.
- Rotary motor. E. R. Zerkle. No. 1,372,586; Mar. 22; v. 284; p. 707.
- Rotary pump with sliding plates. E. Henry. No. 1,385,619; July 26; v. 288; p. 694.
- Rotary rake, Side-delivery. L. R. Clausen. No. 1,371,410; Mar. 15; v. 284; p. 425.
- Rotary rake, Side-delivery. J. Dain. No. 1,371,411; Mar. 15; v. 284; p. 425.
- Rotary screen. J. M. and A. L. Stone. No. 1,373,841; Apr. 5; v. 285; p. 90.
- Rotary screen. F. R. Willson. No. 1,370,620; Mar. 8; v. 284; p. 210.
- Rotary steam-engine. A. C. Johnson. No. 1,389,874; Sept. 6; v. 290; p. 63.
- Rotary switch. W. Davis. No. 1,387,361; Aug. 9; v. 289; p. 350.
- Rotary table. J. H. Okell. No. 1,382,536; June 21; v. 287; p. 531.
- Rotary-valve motor. F. P. Rahmeyer. No. 1,388,758; Aug. 23; v. 289; p. 734.
- Rouge-pad. W. G. Kendall. No. 1,375,705; Apr. 26; v. 285; p. 584.
- Roundabout. J. Czerwonka. No. 1,382,173; June 21; v. 287; p. 461.
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- Rounding machine, Corner-. C. Brown. No. 1,365,583; Jan. 4; v. 282; p. 341.
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- Row-marker. J. S. Coons. No. 1,389,491; Aug. 30; v. 289; p. 935.
- Rubber and fabric, Machine for manufacturing articles of. C. W. Steele. No. 1,366,969; Feb. 1; v. 283; p. 18.
- Rubber and fiber, Method and apparatus for separating. C. W. Kohler, H. A. Hoffman, and W. B. Freeman. No. 1,401,795; Dec. 27.
- Rubber and other heavy plastic materials, Machine for treating. F. H. Banbury. No. 1,370,398; Mar. 1; v. 284; p. 121.
- Rubber and other heavy plastic material, Machine for treating. F. H. Banbury. No. 1,390,976; Sept. 20; v. 290; p. 439.
- Rubber and rubber substitutes, Rollers for treating. C. E. Miller. No. 1,364,132; Jan. 4; v. 282; p. 16.
- Rubber and similar material, Machine for treating. D. R. Bowen and C. F. Schnuck. No. 1,379,616; May 31; v. 286; p. 873.
- Rubber and similar material, Machine for treating. D. R. Bowen and C. F. Schnuck. No. 1,400,934; Dec. 20.
- Rubber, Apparatus for manufacturing seamless articles of. A. Boecler. No. 1,380,862; June 7; v. 287; p. 103.
- Rubber, Apparatus for vulcanizing. W. B. Burke. No. 1,375,360; Apr. 19; v. 285; p. 486.
- Rubber article and making same. W. C. Geer. No. 1,382,774; June 28; v. 287; p. 631.
- Rubber article, Inflatable. F. T. Roberts. No. 1,385,095; July 19; v. 288; p. 511.
- Rubber article, Molded. H. Weida. No. 1,373,472; Apr. 5; v. 285; p. 18.
- Rubber article, Reinforced. J. R. Gammeter. No. 1,394,300; Oct. 18.
- Rubber articles, Apparatus for making hollow. W. E. Roberts. No. 1,387,617; Aug. 16; v. 289; p. 452.
- Rubber articles, Apparatus for making hollow. F. T. Roberts. No. 1,388,125; Aug. 16; v. 289; p. 552.
- Rubber articles, Dipping apparatus for producing. H. F. Mitzel. No. 1,365,528; Jan. 11; v. 282; p. 330.
- Rubber articles, Forming hollow. F. A. Cigol. No. 1,378,523; May 17; v. 286; p. 518.
- Rubber articles having cores and apparatus therefor, Making. F. T. Roberts. No. 1,387,805; Aug. 16; v. 289; p. 490.
- Rubber articles, Making hollow. W. A. Eggers and T. Davis. No. 1,400,146; Dec. 13.
- Rubber articles, Making hollow. F. T. Roberts. No. 1,388,123; Aug. 16; v. 289; p. 552.
- Rubber articles, Manufacturing. C. E. Bradley. No. 1,367,731; Feb. 8; v. 283; p. 226.
- Rubber articles, Method and apparatus for manufacturing inflated. N. D. Crawford. No. 1,365,462; Jan. 11; v. 282; p. 317.
- Rubber articles, Process and apparatus for manufacturing hollow. H. R. Stratford and E. Scheuer. No. 1,401,567; Dec. 27.
- Rubber articles, Process of and apparatus for making hollow. F. T. Roberts. No. 1,388,124; Aug. 16; v. 289; p. 552.
- Rubber articles, Treatment of. T. Midgley and R. B. Naylor. No. 1,394,928; Oct. 25.
- Rubber ball and manufacturing same, Non-pneumatic. K. Fukuda. (Reissue). No. 15,108; May 24; v. 286; p. 796.
- Rubber battery-cell and making same, Hard-. R. H. Blanchard. No. 1,380,520; June 7; v. 287; p. 37.



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- Rubber boot, shoe, galosh, sandal, &c. W. C. Belknap. No. 1,396,313; Nov. 8.
- Rubber composition and making the same. N. Walch. No. 1,392,240; Sept. 27; v. 290; p. 768.
- Rubber composition, India. A. Nixon. No. 1,384,400; July 12; v. 283; p. 286.
- Rubber compound and preparing the same, Halogenated. C. W. Bedford and W. J. Kelly. No. 1,377,152; May 3; v. 286; p. 147.
- Rubber compound or other plastic materials, Machine for treating. C. C. Mosher. No. 1,396,138; Nov. 8.
- Rubber compounds, Compounding of. R. C. Hartong. No. 1,396,837; Nov. 15.
- Rubber, Compounding. C. W. Bedford. No. 1,380,765; June 7; v. 287; p. 84.
- Rubber, Compounding. W. G. O'Brien. No. 1,400,231; Dec. 13.
- Rubber-compounding mixture. G. J. Chertoff. No. 1,379,743; May 31; v. 286; p. 897.
- Rubber conveying and soapstening apparatus. L. R. McGuire. No. 1,369,932; Mar. 1; v. 284; p. 34.
- Rubber-covered roller. A. E. Moon. No. 1,370,664; Mar. 8; v. 284; p. 218.
- Rubber, Covering strands with. T. Midgley. No. 1,370,339; Mar. 1; v. 284; p. 111.
- Rubber-cracker. D. R. Bowen. No. 1,390,599; Sept. 13; v. 290; p. 301.
- Rubber, Devulcanizing. W. B. Pratt. No. 1,382,669; June 28; v. 287; p. 611.
- Rubber extruding, cooling, and cutting apparatus. L. R. McGuire. No. 1,382,207; June 21; v. 287; p. 467.
- Rubber finish and process, Composition for. W. E. Miller. No. 1,400,090; Dec. 13.
- Rubber floor-cleaner. F. W. Nevins. No. 1,395,058; Oct. 25.
- Rubber footwear, Repair-patch for. J. Robertson, Jr. (Reissue.) No. 15,201; Sept. 20; v. 290; p. 577.
- Rubber goods, Apparatus and method for handling. T. Sloper. No. 1,399,898; Dec. 13.
- Rubber, gutta-percha, &c., Purification of india. C. H. Gray. No. 1,386,055; Aug. 2; v. 289; p. 19.
- Rubber heel. H. L. Beal. No. 1,369,771; Mar. 1; v. 284; p. 4.
- Rubber heel. S. De Grazia. No. 1,398,631; Nov. 29.
- Rubber heel for shoes, Detachable. S. Dow. No. 1,397,834; Nov. 22.
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- Rubber-like material, Making. J. C. Wichmann. No. 1,379,150; May 24; v. 286; p. 711.
- Rubber, Machine for retining. W. A. Gordon. No. 1,364,549; Jan. 4; v. 282; p. 97.
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- Rubber, Manufacture of. S. C. Davidson. No. 1,380,640; June 7; v. 287; p. 59.
- Rubber-masticator. C. C. Mosher. No. 1,371,046; Mar. 8; v. 284; p. 200.
- Rubber mat. J. Kelleher. No. 1,401,788; Dec. 27.
- Rubber mix and compounding rubber. R. C. Hartong. No. 1,370,965; Mar. 8; v. 284; p. 275.
- Rubber-mixer or like machine. D. R. Bowen. No. 1,369,080; Feb. 22; v. 283; p. 573.
- Rubber-mixing mills, Take-off mechanism for. S. Dietrich. No. 1,364,183; Jan. 4; v. 282; p. 27.
- Rubber or rubber-like substances, Vulcanization of natural or artificial. C. R. De Long and W. N. Watson. No. 1,364,732; Jan. 4; v. 282; p. 132.
- Rubber products, Apparatus for making. H. C. Knecht. No. 1,374,584; Apr. 12; v. 285; p. 275.
- Rubber products, Compounding of. C. O. North. No. 1,399,789; Dec. 13.
- Rubber-punching machine. H. F. Maranville and H. D. Stevens. No. 1,394,422; Oct. 18.
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- Rubber, Reclaiming. E. Muschewske and W. W. Wood. No. 1,381,654; June 14; v. 287; p. 304.
- Rubber, Regeneration of old or waste. C. Georgi. No. 1,385,869; July 26; v. 288; p. 745.
- Rubber-shoe-vulcanizing machine. J. M. Arthur. No. 1,390,478; Sept. 13; v. 290; p. 275.
- Rubber-sole footwear, Machine for lasting. L. A. Casgrain. No. 1,387,763; Aug. 16; v. 289; p. 482.
- Rubber sole for boots and shoes. G. Ferguson. No. 1,382,768; June 28; v. 287; p. 629.
- Rubber spring. G. I. Browne. No. 1,369,389; Feb. 22; v. 283; p. 633.
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- Rubber suckers provided with valve-projectures, Manufacture of india. H. Grimelmann. No. 1,381,185; June 14; v. 287; p. 217.
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- Rubber, Treating. W. H. Bines. No. 1,400,137; Dec. 13.
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- Rubber, Utilizing vulcanized waste. S. B. Molony. No. 1,384,773; July 19; v. 288; p. 445.
- Rubber, Vulcanization of. G. Bruni. No. 1,386,153; Aug. 2; v. 289; p. 38.
- Rubber, Vulcanizing. W. M. Mackintosh. No. 1,400,618; Dec. 20.
- Rubber, Vulcanizing. F. O. E. Stone. No. 1,368,071; Feb. 8; v. 283; p. 289.
- Rubber when freshly coagulated from the latex, Treatment of raw. S. C. Davidson. No. 1,388,453; Aug. 23; v. 289; p. 676.
- Rubber with comminuted metal, Mixing. H. A. Hoffman and W. H. Juve. No. 1,395,413; Nov. 1.
- Rubber-working calendars, Automatically-adjustable knives for use with. F. A. Schwartz. No. 1,381,242; June 14; v. 287; p. 227.
- Rubberized fabric, Curing and shaping articles of. F. A. Brown. No. 1,373,405; Apr. 5; v. 285; p. 5.
- Rudder-brake. C. W. A. Taylor. No. 1,401,290; Dec. 27.
- Rudder-lock. F. H. Rogers. No. 1,382,442; June 21; v. 287; p. 513.
- Rudder-operating gear. J. G. A. Kitchen. No. 1,371,492; Mar. 15; v. 284; p. 441.
- Rug. E. Heidenheim. No. 1,381,832; June 14; v. 287; p. 338.
- Rug and carpet cleaning machine. A. H. Boelter. No. 1,389,809; Sept. 6; v. 290; p. 50.
- Rug-extractor. A. P. Maize. No. 1,377,169; May 3; v. 286; p. 150.
- Rug-holder. W. O. Bloom. No. 1,370,727; Mar. 8; v. 284; p. 231.
- Rug-machine. A. C. Wright. No. 1,366,624; Jan. 25; v. 282; p. 629.
- Rug storing and display rack. A. M. Case. No. 1,394,469; Oct. 18.
- Rug-weaving and the product therefrom. D. H. Stroud, Jr. No. 1,394,869; Oct. 25.
- Rule. I. J. Allen. No. 1,368,876; Feb. 15; v. 283; p. 495.
- Rule. H. K. Grout. No. 1,387,599; Aug. 16; v. 289; p. 448.
- Rule and adjustable compass, Combination. Z. G. Hayden. No. 1,366,800; Jan. 25; v. 282; p. 663.
- Rule and blotter-holder, Combination. H. D. Naterman. No. 1,383,140; June 28; v. 287; p. 700.
- Rule, Extension. F. H. Fenwirth. No. 1,391,621; Sept. 20; v. 290; p. 570.
- Rule, Folding. J. W. Heller. No. 1,394,088; Oct. 18.
- Rule, Folding. C. Herrman. No. 1,372,691; Mar. 29; v. 284; p. 768.
- Rule-holder. J. Herick. No. 1,374,373; Apr. 12; v. 285; p. 233.
- Rule-holder. C. R. D. Kane. No. 1,370,452; Mar. 1; v. 284; p. 132.
- Rule, Slide. E. Böhnke. No. 1,378,993; May 24; v. 286; p. 681.
- Rule, Slide. H. O'Neill and S. H. Payne. No. 1,382,011; June 21; v. 287; p. 432.
- Rule, Slide. R. A. Pierce. No. 1,398,914; Nov. 29.
- Rule, Slide. F. O. Stillman and H. M. Schleicher. No. 1,364,154; Jan. 4; v. 282; p. 21.
- Rules, Magnifying attachment for slide. C. Holle, Jr. No. 1,387,267; Aug. 9; v. 289; p. 329.
- Ruler and blotter combined. G. A. Phare. No. 1,364,886; Jan. 11; v. 282; p. 206.
- Ruler T-square. S. C. McKeown. No. 1,376,559; May 3; v. 286; p. 34.
- Ruling apparatus. R. J. Thompson. No. 1,370,565; Mar. 8; v. 284; p. 199.
- Ruling-machines, Pen-clamp for. H. E. Lindbladh. No. 1,392,423; Oct. 4.
- Runner attachment. C. J. Peterson. No. 1,375,727; Apr. 26; v. 285; p. 588.
- Runner device. H. C. Long. No. 1,380,915; June 7; v. 287; p. 113.
- Running-board brace. R. O. Dutcher and G. Hope. No. 1,380,046; May 31; v. 286; p. 954.
- Running-board carrier. I. W. Copelin. No. 1,385,308; July 19; v. 288; p. 554.
- Running-board for motor-vehicles. F. Smith. No. 1,385,232; July 19; v. 288; p. 539.
- Running-board support. F. E. Griffith. No. 1,371,889; Mar. 15; v. 284; p. 517.
- Runway. L. R. Arnold. No. 1,384,114; July 12; v. 288; p. 227.
- Rupture appliance. A. L. Hatzan. No. 1,389,047; Aug. 30; v. 289; p. 847.
- Rupture appliance. S. H. Higginbotham. No. 1,396,840; Nov. 15.
- Rust-preventing process. D. Reichinstein. No. 1,395,730; Nov. 1.
- Rust-proofing composition. W. R. Emig. No. 1,381,112; June 14; v. 287; p. 204.
- Rust-resisting alloy of iron. G. H. Charls. (Reissue.) No. 15,208; Oct. 18.
- Saccharin, Producing. J. Bebie. No. 1,366,349; Jan. 25; v. 282; p. 573.
- Sack-cleaning machine. J. A. Wagner. No. 1,382,944; June 28; v. 287; p. 662.



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- Sack, Cotton-picker's. D. L. Gipson. No. 1,365,081; Jan. 18; v. 282; p. 398.
- Sack, Cotton-picker's. B. H. White. No. 1,370,248; Mar. 1; v. 284; p. 94.
- Sack-holder. C. Walldow. No. 1,382,150; June 21; v. 287; p. 457.
- Sack-holding device. M. B. Palich. No. 1,401,723; Dec. 27.
- Sack-lining machine. A. G. and F. A. Hyams. No. 1,381,419; June 14; v. 287; p. 260.
- Sack or bag holder. M. T. Klos. No. 1,372,147; Mar. 22; v. 284; p. 622.
- Sack, Pack-. T. Clemetson. No. 1,397,161; Nov. 15.
- Sack-sewing apparatus. Filled-. F. W. Ostrom and I. F. Webb. No. 1,387,069; Aug. 9; v. 289; p. 292.
- Saddle. L. R. Evans. No. 1,373,718; Apr. 5; v. 285; p. 65.
- Saddle. H. T. Roberts. No. 1,391,409; Sept. 20; v. 290; p. 527.
- Saddle attachment. T. W. Keithley. No. 1,397,128; Nov. 15.
- Saddle, Motorcycle-. C. A. Waterman and H. F. Smith. No. 1,384,791; July 19; v. 288; p. 448.
- Saddle, Ridge-. C. R. Burkhardt. No. 1,387,235; Aug. 9; v. 289; p. 323.
- Saddle, Running-board. G. E. Carson. No. 1,396,727; Nov. 15.
- Saddle, Running-board. D. W. Hawsworth. No. 1,385,618; July 26; v. 288; p. 694.
- Saddle, Tank-band. W. A. Drake. No. 1,390,511; Sept. 13; v. 290; p. 282.
- Saddles, Stirrup-leather fasteners for. C. B. Settles. No. 1,365,551; Jan. 11; v. 282; p. 334.
- Saddletrees, Construction of. D. J. Flude. No. 1,367,925; Aug. 16; v. 289; p. 513.
- Sadiron. J. W. Gates. No. 1,391,888; Sept. 27; v. 290; p. 697.
- Sadiron. E. Hysell. No. 1,400,437; Dec. 13.
- Sadiron. H. Peterson. No. 1,377,971; May 10; v. 286; p. 362.
- Sadiron. N. Rubenstein. No. 1,385,646; July 26; v. 288; p. 700.
- Sadiron, Electric. L. B. Lincoln. No. 1,378,589; May 17; v. 286; p. 531.
- Sadiron, Electric. S. I. Russell. No. 1,370,916; Mar. 8; v. 284; p. 265.
- Sadiron-handle. J. J. Schilder. No. 1,384,923; July 19; v. 288; p. 475.
- Sadiron-holder. S. H. Gibson. No. 1,376,197; Aug. 26; v. 285; p. 677.
- Sadiron-holder. S. H. Gibson. No. 1,376,329; Apr. 26; v. 285; p. 703.
- Sadiron-holder. I. Lee. No. 1,394,998; Oct. 25.
- Sadiron-holder for fireplaces. A. J. Ennis. No. 1,374,004; Apr. 5; v. 285; p. 122.
- Sadiron, Self-heating. O. Spahr. No. 1,399,813; Dec. 13.
- Sadiron-stand. H. L. Galbraith. No. 1,376,269; Apr. 26; v. 285; p. 692.
- Sadiron-stand. F. Thornton, Jr. No. 1,365,293; Jan. 11; v. 282; p. 285.
- Safe. A. F. Blecksmith. No. 1,384,509; July 12; v. 288; p. 308.
- Safe. J. Loseky. No. 1,390,571; Sept. 13; v. 290; p. 295.
- Safe. M. Mosler and C. Bartels. No. 1,399,512; Dec. 6.
- Safe. A. N. Scott. No. 1,381,935; June 21; v. 287; p. 418.
- Safe. W. Thörig. No. 1,400,104; Dec. 13.
- Safe for viands, Self-cooling. M. Dixon. No. 1,381,064; June 7; v. 287; p. 142.
- Safe or vault construction, Wall-joint for. W. F. Potts. No. 1,365,726; Jan. 18; v. 282; p. 408.
- Safe or vault door. W. H. Hollar, Jr. No. 1,369,660; Feb. 22; v. 283; p. 686.
- Safe, Panel match-. J. Berge. No. 1,371,193; Mar. 8; v. 284; p. 318.
- Safe, Portable. M. C. Regan. No. 1,395,771; Nov. 1.
- Safe support, Provision-. A. Haluska. No. 1,401,775; Dec. 27.
- Safes, Permutation-lock for. E. E. Quaintance. No. 1,376,638; May 3; v. 286; p. 49.
- Safes, Time-lock mechanism for. E. E. Benham and C. P. Bartels. No. 1,400,135; Dec. 13.
- Safety anchoring-block. J. E. Whitt. No. 1,369,910; Mar. 1; v. 284; p. 30.
- Safety appliance. B. J. Hoover. No. 1,369,893; Mar. 1; v. 284; p. 26.
- Safety appliance. G. J. Letchworth. No. 1,386,342; Aug. 2; v. 289; p. 75.
- Safety appliance. C. E. McDonald. No. 1,380,816; June 7; v. 287; p. 95.
- Safety attachment. E. C. Etchison. No. 1,397,371; Nov. 15.
- Safety automobile-lock. W. G. Davis. No. 1,380,887; June 7; v. 287; p. 108.
- Safety-bar. M. B. Armitage. No. 1,393,733; Oct. 18.
- Safety-clasp. J. Dinhofer. No. 1,385,117; July 19; v. 288; p. 517.
- Safety coupling-hook. D. C. Kuffel. No. 1,375,301; Apr. 19; v. 285; p. 475.
- Safety cut-out switch. O. M. King. No. 1,366,914; Feb. 1; v. 283; p. 7.
- Safety-deposit appliance. P. M. Wege. No. 1,387,818; Aug. 16; v. 289; p. 493.
- Safety deposit-box and lock construction. P. M. Wege. No. 1,377,449; May 10; v. 286; p. 261.
- Safety device. F. J. Bohn. No. 1,396,017; Nov. 8.
- Safety device. L. P. Braddy. No. 1,383,786; July 5; v. 288; p. 110.
- Safety device. W. J. Burke. No. 1,401,874; Dec. 27.
- Safety device for bathtubs. M. R. Bishop. No. 1,376,247; Apr. 26; v. 285; p. 687.
- Safety direction-signal. H. E. Everett. No. 1,374,725; Apr. 12; v. 285; p. 301.
- Safety-guard and leveling device. L. L. Whitney. No. 1,373,544; Apr. 5; v. 285; p. 32.
- Safety-hook. A. L. Coon. No. 1,390,023; Sept. 6; v. 290; p. 94.
- Safety-hook. G. T. Fleming. No. 1,389,582; Sept. 6; v. 290; p. 5.
- Safety-hook. W. P. McKinney. No. 1,367,270; Feb. 1; v. 283; p. 77.
- Safety-hook. A. J. Sarup. No. 1,398,654; Nov. 29.
- Safety key-ring hook. R. Butler. No. 1,364,709; Jan. 4; v. 282; p. 128.
- Safety key-ring hook. J. J. Pavlik, Jr. No. 1,377,724; May 10; v. 286; p. 312.
- Safety-lock. W. Koziol. No. 1,384,723; July 12; v. 288; p. 353.
- Safety-lock. K. Maksym. No. 1,369,449; Feb. 22; v. 283; p. 644.
- Safety-lock. J. Rozman. No. 1,382,675; June 28; v. 287; p. 612.
- Safety-lock. M. Szymkiewicz. No. 1,383,443; July 5; v. 288; p. 39.
- Safety lock mechanism. J. Morris. No. 1,366,015; Jan. 18; v. 282; p. 465.
- Safety oil-can. J. D. Richey. No. 1,385,712; July 26; v. 288; p. 714.
- Safety panel-box. H. F. Krantz. No. 1,367,912; Feb. 8; v. 283; p. 260.
- Safety-pin. C. O. Ellert. No. 1,385,743; July 26; v. 288; p. 719.
- Safety-pin. J. H. Lynch. No. 1,369,822; Mar. 1; v. 284; p. 13.
- Safety-pin. V. Puc. No. 1,387,512; Aug. 16; v. 289; p. 431.
- Safety-pin. E. Schenk. No. 1,397,236; Nov. 15.
- Safety pneumatic wrench. W. R. White. No. 1,389,468; Aug. 30; v. 289; p. 930.
- Safety-pocket. C. A. Masaitis. No. 1,370,032; Mar. 1; v. 284; p. 52.
- Safety-switch. M. H. Shoenberg. No. 1,393,322; Oct. 11.
- Safety-switch. H. P. White. No. 1,375,946; Apr. 26; v. 285; p. 630.
- Safety-switch for a suspended two-rail track. N. Krump. No. 1,389,668; Sept. 6; v. 290; p. 22.
- Safety throttle-lock, Locomotive. C. H. Bellamy. No. 1,370,625; Mar. 8; v. 284; p. 211.
- Safety tug-hook. J. H. Howard. No. 1,376,145; Apr. 26; v. 285; p. 668.
- Saggar. D. B. Howell. No. 1,384,468; July 12; v. 288; p. 300.
- Sailboat-rigging. F. Ljunström. No. 1,375,400; Apr. 19; v. 285; p. 493.
- Sails, Mechanical control of. M. H. C. Shann. No. 1,376,170; Apr. 26; v. 285; p. 673.
- Sales device. J. W. Hoodwin. No. 1,374,660; Apr. 12; v. 285; p. 289.
- Sales-slip. R. P. Packard. No. 1,401,812; Dec. 27.
- Salesbook, Manifolding-. E. K. Bottle. No. 1,381,446; June 14; v. 287; p. 265.
- Salesbook, Manifolding-. E. K. Bottle. No. 1,381,447; June 14; v. 287; p. 265.
- Saliva-ejector. C. H. Seeger. No. 1,388,312; Aug. 23; v. 289; p. 647.
- Salt and pepper shaker. S. Harris. No. 1,388,036; Aug. 16; v. 289; p. 535.
- Salt and the preparation thereof, Solid non-hygroscopic iron. O. Röhm. No. 1,383,264; June 28; v. 287; p. 723.
- Salt-cake. D. H. and A. G. Beyea. No. 1,372,590; Mar. 22; v. 284; p. 708.
- Salt of aluminum and potassium, Double. N. M. La Porte. No. 1,377,081; May 3; v. 286; p. 134.
- Salt-shaker. A. M. Pasnik. No. 1,366,929; Feb. 1; v. 283; p. 10.
- Salt solutions, Apparatus for electrolyzing. T. Matsushima. No. 1,368,955; Feb. 15; v. 283; p. 509.
- Salt-sprout. C. B. Knox. No. 1,383,040; July 5; v. 288; p. 79.
- Salt, &c., Steam system for manufacturing. C. L. Weil. No. 1,391,811; Sept. 27; v. 290; p. 681.
- Salts, Apparatus for the electrolysis of solutions of metal. J. K. Langhard. No. 1,379,453; May 24; v. 286; p. 768.
- Salts, Extracting potassium. J. Allingham. No. 1,386,486; Aug. 2; v. 289; p. 101.
- Salts of aromatic hydroxyl amines. N. Sulzberger. No. 1,390,260; Sept. 6; v. 290; p. 140.
- Salts of ethylenic halogenhydrins, Manufacture of ethereal. J. Altwegg and J. Landrion. No. 1,393,191; Oct. 11.
- Salts, Recovery of potassium salts from solutions containing the same as well as other. J. W. Hornsey. No. 1,380,383; June 7; v. 287; p. 11.
- Salts, Separation of borax from potassium. C. E. Dolbear. No. 1,382,825; June 28; v. 287; p. 640.
- Salting device. R. J. Sapper. No. 1,394,221; Oct. 18.



- Salvaging apparatus, Submarine. C. J. Lindquist. No. 1,370,458; Mar. 1; v. 284; p. 133.
- Sample-case. H. J. and J. F. Borgerding. No. 1,390,012; Sept. 6; v. 290; p. 91.
- Sample-dispenser. L. J. Fairbanks and J. R. Kelly. No. 1,369,969; Mar. 1; v. 284; p. 41.
- Sample-dispenser. L. R. Hibbard. No. 1,367,739; Feb. 8; v. 283; p. 227.
- Sample-holder. T. H. Ollesheimer. No. 1,395,005; Oct. 25.
- Sample-taking device. W. G. Christian. No. 1,379,170; May 24; v. 286; p. 714.
- Sample-taking device. R. D. Dodds. No. 1,364,084; Jan. 4; v. 282; p. 7.
- Sample-taking device. R. D. Dodds. No. 1,373,492; Apr. 5; v. 285; p. 22.
- Sample-taking drill. W. E. Rembert. No. 1,386,802; Aug. 9; v. 289; p. 238.
- Samples, Means for retailing goods by. H. Dlugach. No. 1,377,813; May 10; v. 286; p. 331.
- Samples, Shopping-card for use in retailing goods by. H. Dlugach. No. 1,377,812; May 10; v. 286; p. 331.
- Sand and gravel washer. J. J. McManamen, C. F. Smith, and A. L. Munro. No. 1,392,779; Oct. 4.
- Sand-bath. T. Lidberg. No. 1,378,474; May 17; v. 286; p. 509.
- Sand-blast device. F. Washburn. No. 1,400,585; Dec. 20.
- Sand-blast machine. E. A. Rich, Jr. No. 1,377,993; May 10; v. 286; p. 365.
- Sand-box. E. Butler. No. 1,389,544; Aug. 30; v. 289; p. 945.
- Sand-box for play purposes, Child's. H. D. Tucker. No. 1,389,020; Aug. 30; v. 289; p. 842.
- Sand, Depositing. J. R. Sensibar. No. 1,392,663; Oct. 4.
- Sand-discharging device. F. G. Todd. No. 1,375,541; Apr. 19; v. 285; p. 520.
- Sand-excluder. J. J. Perry. No. 1,379,477; May 24; v. 286; p. 772.
- Sand-glass. P. H. Walsh. No. 1,373,373; Mar. 29; v. 284; p. 904.
- Sand, gravel, and stone cleaning machine. F. and I. Le Cocq. No. 1,395,717; Nov. 1.
- Sand, Method of and means for reclaiming molding. J. C. Davis. No. 1,393,092; Oct. 11.
- Sand molds, Making. J. Toole. No. 1,369,947; Mar. 1; v. 284; p. 37.
- Sand or grain distributor. P. J. Owen. No. 1,375,799; Apr. 26; v. 285; p. 601.
- Sand-ramming machine. D. J. Campbell. No. 1,364,831; Jan. 4; v. 282; p. 151.
- Sand-settler. I. A. Karns. No. 1,397,836; Nov. 22.
- Sand-throwing machine. J. S. Townsend. No. 1,386,212; Aug. 2; v. 289; p. 50.
- Sand-trap. J. M. Hood. No. 1,388,040; Aug. 16; v. 289; p. 535.
- Sand-trap, Automatic. C. Allen. No. 1,374,626; Apr. 12; v. 285; p. 283.
- Sand-unloading device. N. C. Dunn. No. 1,374,068; Apr. 5; v. 285; p. 134.
- Sanding device. E. M. Herr. No. 1,382,910; June 28; v. 287; p. 656.
- Sanding device. G. M. Towle. No. 1,387,815; Aug. 16; v. 289; p. 492.
- Sandpaper and the like, Machine for use in manufacturing. H. Behr. No. 1,364,827; Jan. 4; v. 282; p. 150.
- Sandpapering device. H. Lagerquist and J. P. Anderson. No. 1,365,924; Jan. 18; v. 282; p. 447.
- Sandpapering-machine. M. L. Beal. No. 1,395,468; Nov. 1.
- Sandpapering-machine. J. Siakel. No. 1,364,324; Jan. 4; v. 282; p. 54.
- Sandpapering-machines, Carrier-cushion for. A. E. Moon. No. 1,370,663; Mar. 8; v. 284; p. 218.
- Sandal. C. O. Roe. No. 1,386,028; Aug. 2; v. 289; p. 14.
- Sandal, Diver's. W. C. Zess. No. 1,383,049; June 28; v. 287; p. 683.
- Sanitary basin, Portable. C. H. Windsor. No. 1,368,591; Feb. 15; v. 283; p. 439.
- Sanitary can. H. Schrader. No. 1,396,065; Nov. 8.
- Sanitary can-gate. A. F. La Gier. No. 1,393,689; Oct. 11.
- Sanitary cap. E. K. Madan and M. P. Levine. No. 1,398,078; Nov. 22.
- Sanitary case. C. A. Greene. No. 1,374,849; Apr. 12; v. 285; p. 325.
- Sanitary cover. L. J. Isenhour. No. 1,397,169; Nov. 15.
- Sanitary cup. D. F. Curtin. No. 1,381,619; June 14; v. 287; p. 297.
- Sanitary device. F. A. Decker. No. 1,385,985; Aug. 2; v. 289; p. 4.
- Sanitary drinking-cups, Dispensing apparatus for. L. W. Luelken. No. 1,398,030; Nov. 22.
- Sanitary fixture. W. E. Hinsdale and M. W. Lansing. No. 1,394,302; Oct. 18.
- Sanitary food-cover. J. W. Riley. No. 1,395,976; Nov. 1.
- Sanitary mouthpiece-cover. H. V. Demster. No. 1,369,630; Feb. 22; v. 283; p. 680.
- Sanitary stool-seat cover. J. P. Young. No. 1,377,541; May 10; v. 286; p. 278.
- Sanitary trap. N. C. Leonard. No. 1,375,598; Apr. 19; v. 285; p. 531.
- Sanitary vending-tray for eatables. J. W. Riley. No. 1,395,975; Nov. 1.
- Sanitary wardrobe-shelf. J. Forester. No. 1,398,071; Nov. 22.
- Sanitary wrapper for toothbrush-bodies. L. C. Davis. No. 1,386,398; Aug. 2; v. 289; p. 85.
- Sap-gathering means. L. S. Blood. No. 1,366,054; Jan. 18; v. 282; p. 472.
- Sardine-turning apparatus. F. Heath. No. 1,373,812; Apr. 5; v. 285; p. 84.
- Sash. R. H. and G. C. Bliss. No. 1,400,260; Dec. 13.
- Sash attachment. E. W. Pendergraft. No. 1,378,718; May 17; v. 286; p. 557.
- Sash balance and lock, Combination. T. Tryhook. No. 1,391,869; Sept. 27; v. 290; p. 693.
- Sash construction. G. H. Forsyth. No. 1,380,372; June 7; v. 287; p. 9.
- Sash-cord fastener. L. Lowndes. No. 1,398,561; Nov. 29.
- Sash counterbalance, Window-. G. E. Klein. No. 1,397,129; Nov. 15.
- Sash-fastener. J. F. Brodowski. No. 1,379,959; May 31; v. 286; p. 938.
- Sash-fastener. M. A. Brown. No. 1,382,758; June 28; v. 287; p. 627.
- Sash-fastener. S. Carlson. No. 1,398,174; Nov. 22.
- Sash-fastener. S. L. Carty. No. 1,400,939; Dec. 20.
- Sash-fastener. G. H. Cozens. No. 1,399,105; Dec. 6.
- Sash-fastener. P. H. Johnson and P. A. Kosecki. No. 1,379,823; May 31; v. 286; p. 912.
- Sash-fastener. C. H. Loutrel. No. 1,394,317; Oct. 18.
- Sash-fastener. C. W. Nichols. No. 1,398,036; Nov. 22.
- Sash-fastener. L. T. Penny. No. 1,397,450; Nov. 15.
- Sash-fastener. W. Reini. No. 1,398,573; Nov. 29.
- Sash-fastener. W. M. Taplin. No. 1,391,429; Sept. 20; v. 290; p. 531.
- Sash-fastener. S. Wojcik. No. 1,397,668; Nov. 22.
- Sash fastener, Storm-. A. Schroeder. No. 1,366,596; Jan. 25; v. 282; p. 623.
- Sash fastener, Storm-. A. Schroeder. No. 1,366,597; Jan. 25; v. 282; p. 623.
- Sash fastener, Storm-. A. Schroeder. No. 1,366,598; Jan. 25; v. 282; p. 623.
- Sash fastener, Ventilating-. S. F. Hill and J. W. Cochran. No. 1,396,205; Nov. 8.
- Sash fastener, Window-. J. P. Crosby. No. 1,397,923; Nov. 22.
- Sash fastener, Window-. R. P. Little. No. 1,395,047; Oct. 25.
- Sash-hanger. J. F. Brodowski. No. 1,395,384; Nov. 1.
- Sash-holder. F. E. Domscheit. No. 1,377,619; May 10; v. 287; p. 293.
- Sash-holder. F. W. Marheine. No. 1,381,725; June 14; v. 287; p. 319.
- Sash-holder. E. Olson. No. 1,369,462; Feb. 22; v. 283; p. 647.
- Sash-holder. E. Olson. No. 1,393,309; Oct. 11.
- Sash-holder. P. C. Pachesa. No. 1,373,145; Mar. 29; v. 284; p. 858.
- Sash-holder. M. Rachlin. No. 1,387,904; Aug. 16; v. 289; p. 509.
- Sash holder, Storm-. A. W. Palm. No. 1,388,881; Aug. 30; v. 289; p. 813.
- Sash-holding device. J. W. Jones. No. 1,373,964; Apr. 5; v. 285; p. 115.
- Sash-lock. W. Harley, Jr. No. 1,390,436; Sept. 13; v. 290; p. 267.
- Sash-lock. J. H. Tiencken. No. 1,374,783; Apr. 12; v. 285; p. 312.
- Sash-lock. A. Turney. No. 1,396,478; Nov. 8.
- Sash-lock construction. C. Albonesi. No. 1,394,513; Oct. 18.
- Sash, Metal. P. J. Healey. No. 1,387,542; Aug. 16; v. 289; p. 437.
- Sash-pulley. J. H. Foote. No. 1,386,774; Aug. 9; v. 289; p. 232.
- Sash-raising mechanism, Automatic. A. D. and E. J. Rawlings. No. 1,364,887; Jan. 11; v. 282; p. 206.
- Sash-retainer. J. A. Pittenger. No. 1,398,795; Nov. 29.
- Sash, Retaining device for window-. W. M. Ducker. No. 1,384,556; July 12; v. 288; p. 318.
- Sash, Storm-. J. Peterson. No. 1,368,450; Feb. 15; v. 283; p. 411.
- Sash-tightener. A. J. Dubee. No. 1,374,067; Apr. 5; v. 285; p. 134.
- Sash-weight. E. R. Leonard. No. 1,384,074; July 12; v. 288; p. 218.
- Sash-weight. G. H. Quaid. No. 1,401,441; Dec. 27.
- Sash, Window-. H. P. Homers. No. 1,379,304; May 24; v. 286; p. 740.
- Sash, Window-. R. C. Keogan. No. 1,400,683; Dec. 20.
- Sash, Window-. H. P. Porter. No. 1,388,121; Aug. 16; v. 289; p. 551.
- Sashes and window-panes, Molding and metal fastener for. M. Lavigne. No. 1,389,057; Aug. 30; v. 289; p. 849.
- Sashes, Attachment for window-. H. P. Porter. No. 1,376,637; May 3; v. 286; p. 49.
- Sashes, Friction-brake for window-. A. Theyskens. No. 1,366,972; Feb. 1; v. 283; p. 18.
- Sashes in position, Means for locking window-. H. Rabinowitz. No. 1,397,935; Nov. 22.
- Sashes, Spring-balance for window-. E. F. Chaffee. No. 1,383,982; July 5; v. 288; p. 150.



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- Satchel. F. P. Dwyer. No. 1,370,636; Mar. 8; v. 284; p. 212.
- Saucepan and like cooking and heating appliance. T. G. Blood. No. 1,391,525; Sept. 20; v. 290; p. 551.
- Saucepans and other cooking utensils. Detachable handle for. G. R. Hill, Jr. No. 1,364,552; Jan. 4; v. 282; p. 98.
- Sausage-linking machine. H. Cramer. No. 1,384,050; July 12; v. 288; p. 214.
- Sausage-linking machine. C. W. Hottmann. No. 1,366,183; Jan. 18; v. 282; p. 497.
- Sausage-manufacturing apparatus. O. G. Mayer. No. 1,368,407; Feb. 15; v. 283; p. 403.
- Savings-bank interest-indicator. H. S. Moir. No. 1,383,227; June 28; v. 287; p. 116.
- Saw. E. Back. No. 1,384,884; July 19; v. 288; p. 467.
- Saw. L. Dragon. No. 1,392,050; Sept. 27; v. 290; p. 730.
- Saw. G. Fogde. No. 1,401,529; Dec. 27.
- Saw. E. L. Griffin. No. 1,395,957; Nov. 1.
- Saw. C. O. Messenger. No. 1,385,385; July 26; v. 288; p. 646.
- Saw, Adjustable. G. J. Hulbert. No. 1,390,958; Sept. 13; v. 290; p. 374.
- Saw and making same, Gin or linter. P. H. Sweet. No. 1,368,368; Feb. 15; v. 283; p. 396.
- Saw, Band-. J. W. Vaughan. No. 1,392,990; Oct. 11.
- Saw-blade. J. L. Kleinman. No. 1,368,441; Feb. 15; v. 283; p. 410.
- Saw-blades, Adjustable frame for. N. D. Olson. No. 1,399,316; Dec. 6.
- Saw-blades, Apparatus for refinishing or retouching the teeth of. R. W. Pittman. No. 1,378,611; May 17; v. 286; p. 536.
- Saw-blades, Holder for. W. J. McQuillan. No. 1,368,638; Feb. 15; v. 283; p. 448.
- Saw blades, Holder for back-. H. G. Cocheu. No. 1,374,822; Apr. 12; v. 285; p. 320.
- Saw, Chain. G. Meyer. No. 1,387,605; Aug. 16; v. 289; p. 450.
- Saw-clamp. J. Dory. No. 1,396,819; Nov. 15.
- Saw, Combination-. E. Balod. No. 1,385,855; July 26; v. 288; p. 742.
- Saw, Composing-room. C. H. Schokmiller. No. 1,366,500; Jan. 25; v. 282; p. 603.
- Saw-controlling mechanism. G. L. Rogers and R. E. Gray. No. 1,398,495; Nov. 29.
- Saw device, Portable-. T. McCormick. No. 1,388,186; Aug. 23; v. 289; p. 621.
- Saw-dressing tool. C. Gustafson. No. 1,396,682; Nov. 8.
- Saw, Endless. T. A. Jackson. No. 1,392,503; Oct. 4.
- Saw equalizer, Crosscut-. L. E. Killian. No. 1,387,274; Aug. 9; v. 289; p. 330.
- Saw filer, Gin-. E. B. Bridges. No. 1,397,075; Nov. 15.
- Saw-filing device. H. Logel. No. 1,385,014; July 19; v. 288; p. 495.
- Saw-filing machine. W. Diegel. No. 1,379,252; May 24; v. 286; p. 730.
- Saw-filing machine. W. B. Penny. No. 1,376,634; May 3; v. 286; p. 48.
- Saw-filing-machine attachment. L. M. Elliott. No. 1,400,427; Dec. 13.
- Saw-fitting tool. G. Anderson. No. 1,392,261; Sept. 27; v. 290; p. 773.
- Saw for cutting wood, metal, or other substances. J. H. Morgan. No. 1,381,930; June 21; v. 287; p. 417.
- Saw for felling trees, cutting logs, and sawing wood, Portable motor-. K. R. J. Lagus. No. 1,378,963; May 24; v. 286; p. 675.
- Saw-gage. C. H. Budd. No. 1,382,059; June 21; v. 287; p. 441.
- Saw-gage. F. E. Hinds. No. 1,393,126; Oct. 11.
- Saw-gage. G. M. Hite. No. 1,370,210; Mar. 1; v. 284; p. 86.
- Saw-gage. V. Royle. No. 1,401,560; Dec. 27.
- Saw, Gin or linter. P. H. Sweet. No. 1,365,866; Jan. 18; v. 282; p. 436.
- Saw-grinding machine. J. P. Hedstrom. No. 1,401,696; Dec. 27.
- Saw-guard. G. A. Anderson. No. 1,381,612; June 14; v. 287; p. 296.
- Saw-guard. J. H. Burke. No. 1,383,285; July 5; v. 288; p. 5.
- Saw-guard. H. A. Cooper. No. 1,379,802; May 31; v. 286; p. 908.
- Saw-guard. F. B. Heibel. No. 1,367,045; Feb. 1; v. 283; p. 32.
- Saw-guard. G. P. McDonnell. No. 1,369,824; Mar. 1; v. 284; p. 14.
- Saw-guard. F. Stines. No. 1,374,331; Apr. 12; v. 285; p. 225.
- Saw-guard. H. J. Traver. No. 1,370,072; Mar. 1; v. 284; p. 60.
- Saw guard, Circular-. J. H. Burke. No. 1,392,396; Oct. 4.
- Saw-guide. L. F. Faulkner. No. 1,385,673; July 26; v. 288; p. 705.
- Saw guide, Band-. E. Newell. No. 1,374,600; Apr. 12; v. 285; p. 278.
- Saw guide, Circular-. G. S. Harris. No. 1,368,256; Feb. 15; v. 283; p. 373.
- Saw, Hand power-driven band-. C. A. De Cew and W. F. Hirst. No. 1,374,638; Apr. 12; v. 285; p. 285.
- Saw-handle. J. Dragon. No. 1,385,671; July 26; v. 288; p. 705.
- Saw-handle. J. Tors. No. 1,400,249; Dec. 13.
- Saw-handle. B. R. Watson. No. 1,383,503; July 5; v. 288; p. 50.
- Saw-holder. K. Lindsay. No. 1,380,814; June 7; v. 287; p. 94.
- Saw-holders, Knockdown. J. D. Knapp. No. 1,371,692; Mar. 15; v. 284; p. 480.
- Saw, Ice-. B. B. Phillips. No. 1,390,158; Sept. 6; v. 290; p. 121.
- Saw, Link. C. Wolf. No. 1,397,026; Nov. 15.
- Saw machine, Band-. G. C. Hunter. No. 1,381,418; June 14; v. 287; p. 260.
- Saw-making machine. A. Carlson. No. 1,382,819; June 28; v. 287; p. 639.
- Saw-mounting. V. F. Fehrm. No. 1,380,707; June 7; v. 287; p. 73.
- Saw multiple and rod-cutting machine, Gang-. S. Richard, Jr. No. 1,401,363; Dec. 27.
- Saw, Portable drag-. S. Jacy. No. 1,367,480; Feb. 1; v. 283; p. 119.
- Saw, Portable electric. D. C. Lange. No. 1,380,484; June 7; v. 287; p. 30.
- Saw, Portable power-driven crosscut-. A. Holmberg. No. 1,400,064; Dec. 13.
- Saw, Power-. J. D. Bobbroff. No. 1,400,496; Dec. 13.
- Saw, Power-. V. Royle. No. 1,387,869; Aug. 16; v. 289; p. 503.
- Saw, Reciprocating. E. S. Homstad. No. 1,367,260; Feb. 1; v. 283; p. 75.
- Saw, Separable-tooth. W. E. Culley. (Reissue.) No. 1,508,8; Feb. 15; v. 283; p. 516.
- Saw-set. C. Bodmer. No. 1,378,650; May 17; v. 286; p. 543.
- Saw-set. G. Byrns and H. Sanche. No. 1,374,279; Apr. 12; v. 285; p. 215.
- Saw-set. E. Guay. No. 1,375,147; Apr. 19; v. 285; p. 446.
- Saw-set. J. W. Ingleton. No. 1,392,644; Oct. 4.
- Saw-set. C. A. Johnson. No. 1,374,743; Apr. 12; v. 285; p. 305.
- Saw-set. A. E. Nelson. No. 1,383,009; June 28; v. 287; p. 675.
- Saw-set. K. Rinne. No. 1,397,331; Nov. 15.
- Saw-set. F. Sikowski. No. 1,391,910; Sept. 27; v. 290; p. 701.
- Saw-set. W. M. Stovall. No. 1,384,575; July 12; v. 288; p. 322.
- Saw-set. R. L. Webb. No. 1,386,821; Aug. 9; v. 289; p. 242.
- Saw-set. E. A. Young. No. 1,371,534; Mar. 15; v. 284; p. 449.
- Saw-set-dressing tool. E. G. S. Clare. No. 1,368,698; Feb. 15; v. 283; p. 460.
- Saw-setting apparatus. J. T. Francis. No. 1,377,826; May 10; v. 286; p. 334.
- Saw-setting machine. A. Davison. No. 1,373,308; Mar. 29; v. 284; p. 891.
- Saw-sharpening apparatus. C. Stanzel. No. 1,385,339; July 19; v. 288; p. 560.
- Saw-swage. J. P. Hedstrom. No. 1,401,694; Dec. 27.
- Saw-swage. H. M. King. No. 1,388,724; Aug. 23; v. 289; p. 727.
- Saw-swage. D. Myers. No. 1,370,547; Mar. 8; v. 284; p. 195.
- Saw-swage. J. F. Pribnow. No. 1,382,743; June 28; v. 287; p. 624.
- Saw-table gage. A. G. Krockner. No. 1,375,159; Apr. 19; v. 285; p. 448.
- Saw-teeth, Forming. G. R. Vander Wee. No. 1,371,008; Mar. 8; v. 284; p. 283.
- Saw tool, Crosscut-. W. A. Sloper. No. 1,369,565; Feb. 22; v. 283; p. 667.
- Saw-tooth cutter. J. Johnson. No. 1,383,722; July 5; v. 288; p. 97.
- Saw-tooth gage. C. O. Hawksley and W. J. Baumann. No. 1,378,409; May 17; v. 286; p. 497.
- Saw-tooth shaper. J. P. Hedstrom. No. 1,401,695; Dec. 27.
- Saw, Wood-. B. Hatley. No. 1,374,736; Apr. 12; v. 285; p. 303.
- Saw, Wood-. R. A. Heisel. No. 1,387,264; Aug. 9; v. 289; p. 328.
- Saws, Raker-gage for crosscut-. A. H. Bastian. No. 1,376,065; Apr. 26; v. 285; p. 653.
- Saws, Method and machine for forming teeth in. S. O. Bjornberg. No. 1,372,738; Mar. 29; v. 284; p. 777.
- Saws, Safety-guard for swing-. A. F. Howe. No. 1,375,698; Apr. 26; v. 285; p. 583.
- Saws, Safety-shield for circular. C. N. Smith. No. 1,397,606; Nov. 22.
- Sawdust, Separator for metal and wood. S. J. Kelley. No. 1,376,019; Apr. 26; v. 285; p. 644.
- Sawing and boring device. G. H. Drabenstott. No. 1,377,961; May 10; v. 286; p. 360.
- Sawing apparatus. C. V. Fite. No. 1,395,100; Oct. 25.
- Sawing-machine. D. H. Clark. No. 1,382,892; June 28; v. 287; p. 652.
- Sawing-machine. H. E. De Koning. No. 1,364,356; Jan. 4; v. 282; p. 60.
- Sawing-machine. C. J. Carlson. No. 1,373,864; Apr. 5; v. 285; p. 94.
- Sawing-machine. O. H. L. Wernicke. No. 1,368,777; Feb. 15; v. 283; p. 476.



- Sawing machine, Barrel-stave. R. P. Gerlach. No. 1,379,682; May 31; v. 286; p. 885.
- Sawing-machine guard. H. C. Voss and C. Hultgren. No. 1,368,773; Feb. 15; v. 283; p. 475.
- Sawing-machine, Manually-portable. C. V. Fite. No. 1,395,101; Oct. 25.
- Sawing machine, Tree. S. Radimak. No. 1,399,274; Dec. 6.
- Sawing machines, Auxiliary log-supporting means for clappboard. E. M. Gray. No. 1,381,183; June 14; v. 287; p. 217.
- Sawing-machines, Ball-bearing table for. R. Black and W. I. Francis. No. 1,390,487; Sept. 13; v. 290; p. 277.
- Sawmill-carriages, Offset mechanism for. E. K. Bates. No. 1,365,297; Jan. 11; v. 282; p. 285.
- Sawmills, Dogging mechanism for. J. B. Weir. No. 1,394,128; Oct. 18.
- Sawmills, Shotgun feed mechanism for. W. F. Clark. No. 1,371,862; Mar. 15; v. 284; p. 512.
- Scaffold. A. P. Dixon. No. 1,376,924; May 3; v. 286; p. 104.
- Scaffold. M. J. Herwick. No. 1,365,996; Jan. 18; v. 282; p. 461.
- Scaffold. G. J. Lux and J. Wilcox. No. 1,395,346; Nov. 1.
- Scaffold. W. L. Nicols. No. 1,364,791; Jan. 4; v. 282; p. 143.
- Scaffold. W. Von Deest. No. 1,368,668; Feb. 15; v. 283; p. 454.
- Scaffold, Adjustable. P. W. Minnigan. No. 1,386,195; Aug. 2; v. 289; p. 47.
- Scaffold and hoisting mechanism therefor. E. Pitou. No. 1,366,487; Jan. 25; v. 282; p. 601.
- Scaffold-bracket. C. Buechel. No. 1,375,078; Apr. 19; v. 285; p. 432.
- Scaffold-bracket. K. R. Schuster. No. 1,391,983; Sept. 27; v. 290; p. 717.
- Scaffold, Folding. J. D. Rupp. No. 1,377,095; May 3; v. 286; p. 136.
- Scaffold-jack. C. H. Larsson. No. 1,394,178; Oct. 18.
- Scaffold, Roofing. S. Hawkins. No. 1,392,153; Sept. 27; v. 290; p. 751.
- Scaffold-support. D. E. Madsen and J. Kelly. No. 1,396,968; Nov. 15.
- Scaffolds, Hoisting attachment for. F. B. Johnston. No. 1,388,262; Aug. 23; v. 289; p. 636.
- Scaffolding. A. André. No. 1,393,932; Oct. 18.
- Scale. J. G. Andree. No. 1,370,505; Mar. 8; v. 284; p. 187.
- Scale. W. P. Buchan. No. 1,382,269; June 21; v. 287; p. 479.
- Scale. L. T. Johnson. No. 1,369,815; Mar. 1; v. 284; p. 12.
- Scale. L. T. Johnson. No. 1,375,636; Apr. 19; v. 285; p. 538.
- Scale. L. T. Johnson. No. 1,401,704; Dec. 27.
- Scale. B. W. King. No. 1,384,136; July 12; v. 288; p. 231.
- Scale. L. A. Osgood. No. 1,385,791; July 26; v. 288; p. 729.
- Scale. H. Schubert and J. A. Wheelon. No. 1,364,146; Jan. 4; v. 282; p. 19.
- Scale. W. S. Smith. No. 1,365,799; Jan. 18; v. 282; p. 422.
- Scale. A. Sonander. No. 1,379,726; May 31; v. 286; p. 894.
- Scale. M. H. Starr. No. 1,385,592; July 26; v. 288; p. 689.
- Scale. A. E. Weine. No. 1,400,469; Dec. 13.
- Scale and grain-sampler. C. R. Bennett. No. 1,396,916; Nov. 15.
- Scale, Automatic. J. W. Bryce. No. 1,392,908; Oct. 11.
- Scale, Automatic. A. and A. T. McLeod. No. 1,386,790; Aug. 9; v. 289; p. 235.
- Scale, Automatic. R. J. Zanone. No. 1,368,778; Feb. 15; v. 283; p. 476.
- Scale, Automatic. R. J. Zanone. No. 1,386,546; Aug. 2; v. 289; p. 113.
- Scale beam, Computing. F. M. Fritts. No. 1,371,780; Mar. 15; v. 284; p. 496.
- Scale-beams, Safety-latch for recording. E. McGarvey. No. 1,378,966; May 24; v. 286; p. 676.
- Scale, Combined computing and counting. C. E. Riedel. No. 1,379,215; May 24; v. 286; p. 723.
- Scale, Computing. W. F. Stimpson. No. 1,367,213; Feb. 1; v. 283; p. 66.
- Scale, Computing. W. F. Stimpson. No. 1,392,976; Oct. 11.
- Scale, Dial. M. H. Starr. No. 1,393,179; Oct. 11.
- Scale, Electrically-controlled weighing. L. J. Curran and G. F. Donnelly. No. 1,376,138; Apr. 26; v. 285; p. 667.
- Scale, Hanging. C. H. Hapgood. No. 1,366,880; Jan. 25; v. 282; p. 679.
- Scale-jack, Combination. C. D. Steele. No. 1,368,854; Feb. 15; v. 283; p. 491.
- Scale-pan trip. F. M. Stevens. No. 1,368,301; Feb. 15; v. 283; p. 382.
- Scale, Pendulum weighing. H. O. Hem. No. 1,364,369; Jan. 4; v. 282; p. 65.
- Scale, Postal. W. A. Hyde. No. 1,367,972; Feb. 8; v. 283; p. 271.
- Scale, Predetermined-weight. H. O. Hem. No. 1,397,518; Nov. 22.
- Scale, Predetermined-weight. O. C. Reeves. No. 1,397,547; Nov. 22.
- Scale, Price-calculating weighing. E. G. Thomas. No. 1,369,145; Feb. 22; v. 283; p. 586.
- Scale, Protractor. P. J. Harriman. No. 1,389,946; Sept. 6; v. 290; p. 78.
- Scale-spring. H. F. Dunn. No. 1,369,090; Feb. 22; v. 283; p. 575.
- Scale, Tare. F. M. Stevens. No. 1,368,302; Feb. 15; v. 283; p. 382.
- Scale, Weighing. H. W. Barson. No. 1,370,724; Mar. 8; v. 284; p. 230.
- Scale, Weighing. H. B. Bartlett. No. 1,400,933; Dec. 20.
- Scale, Weighing. H. S. Bergen. No. 1,378,087; May 17; v. 286; p. 436.
- Scale, Weighing. H. O. Hem. No. 1,366,881; Jan. 25; v. 282; p. 679.
- Scale, Weighing. H. O. Hem. No. 1,369,101; Feb. 22; v. 283; p. 577.
- Scale, Weighing. H. O. Hem. No. 1,369,102; Feb. 22; v. 283; p. 578.
- Scale, Weighing. H. O. Hem. No. 1,378,110; May 17; v. 286; p. 440.
- Scale, Weighing. H. O. Hem. No. 1,392,827; Oct. 4.
- Scale, Weighing. S. P. Holzschuh. No. 1,367,144; Feb. 1; v. 283; p. 52.
- Scale, Weighing. S. N. Hurt. No. 1,397,521; Nov. 22.
- Scale, Weighing. F. J. Koplin. No. 1,364,385; Jan. 4; v. 282; p. 65.
- Scale, Weighing. W. S. Smith. No. 1,396,668; Nov. 8.
- Scale, Weighing. W. G. Templeton. No. 1,394,660; Oct. 25.
- Scale, Weighing. H. Theobald. No. 1,385,406; July 26; v. 288; p. 650.
- Scale, Weighing. W. Timson. No. 1,398,708; Nov. 29.
- Scale, Weighing. M. J. Weber. No. 1,382,699; June 28; v. 287; p. 616.
- Scale, Weighing. M. J. Weber. No. 1,383,504; July 5; v. 288; p. 51.
- Scale, Weighing. L. C. Wetzel. No. 1,367,220; Feb. 1; v. 283; p. 67.
- Scale, Weighing. R. Wolter. No. 1,398,480; Nov. 29.
- Scale, Weighing and recording. G. Guidbrandsen. No. 1,369,238; Feb. 22; v. 283; p. 604.
- Scales, Approach for track. L. R. Rosebrook. No. 1,378,425; May 17; v. 286; p. 499.
- Scales, Attachment for. C. E. Riedel. No. 1,367,892; Feb. 8; v. 283; p. 256.
- Scales, Automatic lock mechanism for dumping. C. C. Neale. No. 1,392,075; Sept. 27; v. 290; p. 735.
- Scales, Locking device for weighing. E. G. Thomas. No. 1,386,662; Aug. 9; v. 289; p. 209.
- Scales, Reading device for. G. von Post. No. 1,396,607; Nov. 8.
- Scales, Signal for weighing. E. G. Thomas. No. 1,392,808; Oct. 4.
- Scales, Temperature-compensating device for. G. W. Kepler. No. 1,366,670; Jan. 25; v. 282; p. 637.
- Scales, Weight-indicator for. H. C. Schaper. No. 1,385,718; July 26; v. 288; p. 715.
- Scalpel. H. W. Koeling. No. 1,368,842; Feb. 15; v. 283; p. 488.
- Scarf and sweater, Convertible. A. Bonheur. No. 1,364,693; Jan. 4; v. 282; p. 124.
- Scarf-pin guard. J. Frierson. No. 1,364,742; Jan. 4; v. 282; p. 134.
- Scarfing devices, Gage-wheel for. H. D. Jones. No. 1,388,648; Aug. 23; v. 289; p. 713.
- Scarfing devices, Support for. H. D. Jones. No. 1,388,649; Aug. 23; v. 289; p. 713.
- Scissors, Folding. J. F. Newton. No. 1,370,906; Mar. 8; v. 284; p. 263.
- Scissors, Nail. R. Möthe. No. 1,383,556; July 5; v. 288; p. 61.
- Scoop-board. W. J. Combs. No. 1,389,860; Sept. 6; v. 290; p. 61.
- Scoop-board and end-gate. G. W. Sanders. No. 1,395,300; Nov. 1.
- Scoop-board for wagon-bodies. L. H. Meyerpeter. No. 1,380,233; May 31; v. 286; p. 989.
- Scoop-bucket, Drag-line. H. M. Sherwood. No. 1,395,988; Nov. 1.
- Scoop, Rear-loading. H. M. Conner. No. 1,394,067; Oct. 18.
- Scooping apparatus, Muck. F. A. Grinolds and E. E. Martinson. No. 1,371,785; Mar. 15; v. 284; p. 497.
- Scoter. G. M. A. Koster. No. 1,394,430; Oct. 18.
- Scoring device. J. F. Culver. No. 1,394,715; Oct. 25.
- Scoring-machine. C. B. Pearsall. No. 1,373,668; Apr. 5; v. 285; p. 56.
- Scourer. C. T. Howson. No. 1,372,511; Mar. 22; v. 284; p. 692.
- Scouring device. A. Motter. No. 1,395,652; Nov. 1.
- Scouring machine, Surface. F. M. Furber. No. 1,374,194; Apr. 12; v. 285; p. 199.
- Scow. C. Kulman. No. 1,397,527; Nov. 22.
- Scow, Dump. H. V. Butt. No. 1,399,048; Dec. 6.
- Scrap-bundling machine. J. R. Coe. No. 1,395,041; Oct. 25.
- Scraper. J. M. Conley. No. 1,377,561; May 10; v. 286; p. 282.
- Scraper. T. Edginton. No. 1,388,809; Aug. 23; v. 289; p. 744.



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- Scraper. L. P. Green. No. 1,399,382; Dec. 6.  
 Scraper. G. E. von Hoffmann. No. 1,396,702; Nov. 8.  
 Scraper. G. J. Huneryager. No. 1,377,484; May 10; v. 286; p. 268.  
 Scraper. J. B. Kirk. No. 1,371,792; Mar. 15; v. 284; p. 499.  
 Scraper. A. Smith. No. 1,394,868; Oct. 25.  
 Scraper. E. R. Stevens. No. 1,381,248; June 14; v. 287; p. 228.  
 Scraper and agitator, Combined. A. E. Flowers. No. 1,366,777; Jan. 25; v. 282; p. 659.  
 Scraper and chopper, Combined. A. Celler. No. 1,388,931; Aug. 30; v. 289; p. 823.  
 Scraper and leveler. G. A. Ghent. No. 1,396,038; Nov. 8.  
 Scraper attachment. B. Seelig. No. 1,390,168; Sept. 6; v. 290; p. 123.  
 Scraper, Automatic road and surface. J. S. Reynolds. No. 1,368,838; Feb. 15; v. 283; p. 488.  
 Scraper, charger, and tamper, Combination. T. J. Avery. No. 1,379,435; May 24; v. 286; p. 764.  
 Scraper, Drag-. W. E. Hale. No. 1,377,830; May 10; v. 286; p. 334.  
 Scraper, Flue-. E. Aber. No. 1,390,072; Sept. 6; v. 290; p. 104.  
 Scraper for cleaning irregular surfaces. I. A. Watrous. No. 1,387,027; Aug. 9; v. 289; p. 283.  
 Scraper, Ice-. W. S. Van Sant. No. 1,380,757; June 7; v. 287; p. 82.  
 Scraper mechanism, Implement. J. R. Dunham. No. 1,367,736; Feb. 8; v. 283; p. 226.  
 Scraper, Mining self-loading and unloading. C. H. Strange. No. 1,397,560; Nov. 22.  
 Scraper, Plane-. C. J. and C. A. Lofdahl. No. 1,399,631; Dec. 6.  
 Scraper, Road-. A. L. Butler. No. 1,382,470; June 21; v. 287; p. 518.  
 Scraper, Roll-. A. J. Maskrey. No. 1,387,896; Aug. 16; v. 289; p. 508.  
 Scraper, Roll-. T. McCauley. No. 1,394,102; Oct. 18.  
 Scraper, Shovel-. G. E. Scott. No. 1,398,082; Nov. 22.  
 Scrapers and tampers. Telescopic handle for combined. D. Reynolds. No. 1,365,851; Jan. 18; v. 282; p. 432.  
 Scrapers, &c., Holding-tool for sharpening. P. O. Hubricht. No. 1,400,065; Dec. 13.  
 Scraping apparatus. J. Rollh. No. 1,376,643; May 3; v. 286; p. 50.  
 Scraping cylindrical surfaces, Tool for. R. D. Heacox. No. 1,395,823; Nov. 1.  
 Scraping means for use with rotating members. U. S. Eberhardt. No. 1,369,637; Feb. 22; v. 283; p. 682.  
 Scraping-tool, Rotary. J. S. Gander. No. 1,386,249; Aug. 2; v. 289; p. 58.  
 Screen—  
   Adjustable window-screen. Port-screen.  
   Closet-seat screen. Projection-screen.  
   Door and window screen. Propulsion-screen.  
   Fire-screen. Revolving screen.  
   Fly-escape screen. Roller-screen.  
   Grizzly-screen. Rolling screen.  
   Half-tone screen. Rotary screen.  
   Headlight-screen. Visual weather-screen.  
   Metal screen. Well-screen.  
   Optical projection-screen. Wind-screen.  
   Photographer's head-screen. Window-screen.  
 Screen. C. R. Allen. No. 1,369,514; Feb. 22; v. 283; p. 657.  
 Screen. H. P. Day. No. 1,369,629; Feb. 22; v. 283; p. 680.  
 Screen. H. Illig. No. 1,375,659; Apr. 19; v. 285; p. 543.  
 Screen. W. Leininger. No. 1,380,661; June 7; v. 287; p. 64.  
 Screen. G. L. Le Roy. No. 1,398,869; Nov. 29.  
 Screen. L. Simon. No. 1,364,457; Jan. 4; v. 282; p. 80.  
 Screen. L. C. Soteros and J. S. Cavaleas. No. 1,393,405; Oct. 11.  
 Screen and picking-table, Combined. R. G. Lawry. No. 1,381,204; June 14; v. 287; p. 221.  
 Screen and storm-sash, Combination. W. R. Stermer. No. 1,379,227; May 24; v. 286; p. 725.  
 Screen carrier, Color-. J. Tessier. No. 1,398,952; Nov. 29.  
 Screen-fastener. H. McCaffrey. No. 1,369,036; Feb. 22; v. 283; p. 565.  
 Screen fastener, Window-. E. Troph. No. 1,376,235; Apr. 26; v. 285; p. 685.  
 Screen for sand, gravel, &c. G. A. Seivour. No. 1,400,697; Dec. 20.  
 Screen-hood. R. Martin. No. 1,383,959; July 5; v. 288; p. 145.  
 Screen, Propulsion-. R. S. Benson. No. 1,398,997; Dec. 6.  
 Screen, Revolving. E. J. Pope. No. 1,399,653; Dec. 6.  
 Screen, Rolling. J. A. Bried. No. 1,395,475; Nov. 1.  
 Screen, Rolling window-. J. J. Chapin. No. 1,387,452; Aug. 16; v. 289; p. 418.  
 Screen-separator. T. J. Sturtevant. No. 1,397,338; Nov. 15.  
 Screen-separator. T. L. Sturtevant. Nos. 1,397,339-43; Nov. 15.  
 Screens, Cleaning. R. G. Woodbridge, Jr. No. 1,367,111; Feb. 1; v. 283; p. 45.  
 Screens, Safety device for. E. J. Coleman. No. 1,375,828; Apr. 26; v. 285; p. 607.  
 Screening and concentrating device. H. B. Walling. No. 1,391,026; Sept. 20; v. 290; p. 449.  
 Screening and other apparatus, Feed-regulator for. G. H. Fraser. No. 1,38,313; July 12; v. 288; p. 268.  
 Screening apparatus. F. D. Ruprecht. No. 1,397,906; Nov. 22.  
 Screening apparatus, Feeder or regulator for. G. H. Fraser. No. 1,384,313; July 12; v. 288; p. 268.  
 Screening device. H. H. Childers. No. 1,380,289; May 31; v. 286; p. 1000.  
 Screening or sifting granulated substances, Mechanism for. A. Walker. No. 1,389,231; Aug. 30; v. 289; p. 883.  
 Screw. J. Kucewicz. No. 1,365,508; Jan. 11; v. 282; p. 326.  
 Screw-action wrench. H. R. Hodge. No. 1,366,801; Jan. 25; v. 282; p. 663.  
 Screw conveyer. N. M. Lower. No. 1,373,748; Apr. 5; v. 285; p. 71.  
 Screw-conveyer drive-clamp. H. Quelms. No. 1,371,116; Mar. 8; v. 284; p. 304.  
 Screw cutting and relieving machine. C. G. Olson and N. Trbojevich. No. 1,384,913; July 19; v. 288; p. 473.  
 Screw-cutting device. A. Sigalon. No. 1,373,104; Mar. 29; v. 284; p. 850.  
 Screw-cutting, Die-head for. F. Mountford and R. Standen. No. 1,394,107; Oct. 18.  
 Screw-cutting machine. E. Becker. No. 1,371,544; Mar. 15; v. 284; p. 451.  
 Screw-cutting tap. J. McFarlane and D. Clelland. No. 1,395,198; Oct. 18.  
 Screw, Expanding. B. F. Jacobs. No. 1,372,291; Mar. 22; v. 284; p. 651.  
 Screw, Expandible. J. A. Blitman. No. 1,392,108; Sept. 27; v. 290; p. 742.  
 Screw expansion-shield, Leg-. J. E. Ogden. No. 1,400,405; Dec. 13.  
 Screw jack, Multiple-. J. Coryell. Nos. 1,396,258-9; Nov. 8.  
 Screw, Lock-. I. Badois and D. Kahn. No. 1,394,880; Oct. 25.  
 Screw-machine feeding device. J. D. Crossley. No. 1,367,589; Feb. 8; v. 283; p. 198.  
 Screw of extrusion and like presses, Worm-. A. W. Sizer. No. 1,384,679; July 12; v. 288; p. 345.  
 Screw-on attachment. W. H. McKissick. No. 1,372,031; Mar. 22; v. 284; p. 601.  
 Screw, Pressure-. E. W. Menger. No. 1,387,996; Aug. 16; v. 289; p. 527.  
 Screw-stem lubricator. W. F. Kelly. No. 1,367,482; Feb. 1; v. 283; p. 119.  
 Screw swivels, Locking device for temper-. I. A. Shank. No. 1,377,287; May 10; v. 286; p. 229.  
 Screw, Temper-. J. Burns. No. 1,394,710; Oct. 25.  
 Screw-thread-cutting device. T. Shehan. No. 1,391,514; Sept. 20; v. 290; p. 549.  
 Screw-thread gage. G. S. Fallow. No. 1,392,313; Oct. 4.  
 Screw-thread, Locking. I. C. Woodward. No. 1,369,156; Feb. 22; v. 283; p. 588.  
 Screw-threads, Forming locking. A. L. Stanford. No. 1,367,168; Feb. 1; v. 283; p. 57.  
 Screw-threads, Inspecting and gaging. J. Hartness. No. 1,377,068; May 3; v. 286; p. 131.  
 Screw-threads, Mechanism for gaging. J. Hartness. No. 1,377,069; May 3; v. 286; p. 132.  
 Screw-threads, Method and means for cutting. C. P. Marye. No. 1,382,662; June 28; v. 287; p. 609.  
 Screw-threads, Milling. G. Richards. No. 1,365,954; Jan. 18; v. 282; p. 453.  
 Screw-threads, Milling. G. Richards, L. N. Burt, and J. E. Freehorn. No. 1,386,279; Aug. 2; v. 289; p. 63.  
 Screw-threaded connection. L. J. Voorhees. No. 1,388,622; Aug. 23; v. 289; p. 708.  
 Screw-threading tool. G. Peklar. No. 1,368,651; Feb. 15; v. 283; p. 451.  
 Screw-wrench. C. F. Mueller. No. 1,376,721; May 3; v. 286; p. 64.  
 Screws, Actuating device for temper-. M. G. Guthrie. No. 1,368,394; Feb. 15; v. 283; p. 400.  
 Screws and bolts, Tool for removing broken. G. F. Gooding. No. 1,366,647; Jan. 25; v. 282; p. 633.  
 Screws, Attachment for temper-. C. A. Butler. No. 1,399,603; Dec. 6.  
 Screws or bolts, Retaining device for. G. W. White. No. 1,396,611; Nov. 8.  
 Screwed mechanism. G. Hazelton. No. 1,391,633; Sept. 20; v. 290; p. 572.  
 Screwing machines, Wire-feed mechanism of. M. T. Denne. No. 1,380,538; June 7; v. 287; p. 41.  
 Screwdriver. D. E. Anderson. No. 1,366,341; Jan. 25; v. 282; p. 571.  
 Screwdriver. C. S. Andrews. No. 1,377,958; May 10; v. 286; p. 359.  
 Screwdriver. G. P. Butler. No. 1,391,242; Sept. 20; v. 290; p. 493.  
 Screwdriver. M. Hardy. No. 1,385,915; July 26; v. 288; p. 754.  
 Screwdriver. E. A. Heintzman. No. 1,396,748; Nov. 15.  
 Screwdriver. W. E. Lombard. No. 1,384,201; July 12; v. 288; p. 244.  
 Screwdriver. J. E. Mills. No. 1,394,438; Oct. 18.  
 Screwdriver. J. Peyer. No. 1,375,606; Apr. 19; v. 285; p. 532.  
 Screwdriver. F. W. Russell. No. 1,383,429; July 5; v. 288; p. 35.  
 Screwdriver. F. A. Warter. No. 1,371,280; Mar. 15; v. 284; p. 398.



- Screwdriver attachment. W. J. Carlin. No. 1,374,057; Apr. 5; v. 285; p. 132.
- Screwdriver attachment. P. Reinhalter. No. 1,392,796; Oct. 4.
- Screwdriver, Magentic. W. J. and E. J. Hood. No. 1,378,032; May 17; v. 286; p. 425.
- Screwdriver, Power-driven. C. A. Herman. No. 1,394,089; Oct. 18.
- Screwdriver, Ratchet. W. J. Malecki. No. 1,384,032; July 5; v. 288; p. 160.
- Screwdriver with gripping arrangement for holding the screws. J. Lundmark. No. 1,399,635; Dec. 6.
- Screwdrivers, Handle attachment for. P. Reinhalter. No. 1,379,125; May 24; v. 286; p. 706.
- Scrubbing and mopping machine. Floor. W. Drozd. No. 1,384,124; July 12; v. 288; p. 229.
- Scrubbing-brush clamp-handle. F. Deutsch. No. 1,376,862; May 3; v. 286; p. 92.
- Scrubbing-machine. F. A. Espeland. No. 1,393,101; Oct. 11.
- Scrubbing-machine. L. Jarusz. No. 1,393,133; Oct. 11.
- Scrubbing-machine. A. H. Rowe. No. 1,393,453; Oct. 11.
- Scuttle, Coal-. A. Jones. No. 1,368,158; Feb. 8; v. 283; p. 306.
- Scythe-fastener. W. F. Johnston. No. 1,365,833; Jan. 18; v. 282; p. 429.
- Seal. W. K. Edgar. No. 1,401,326; Dec. 27.
- Seal. J. P. Kuebler. No. 1,372,703; Mar. 29; v. 284; p. 770.
- Seal. J. L. Weinmann. No. 1,393,863; Oct. 18.
- Seal and brace for boxes. J. W. Webb. No. 1,364,225; Jan. 4; v. 282; p. 34.
- Seal, Barrel-. H. W. Koch. No. 1,379,827; May 31; v. 286; p. 912.
- Seal, Car-. F. W. Suydam. No. 1,370,612; Mar. 8; v. 284; p. 208.
- Seal closure, Vacuum side-. C. Hammer. No. 1,365,780; Jan. 18; v. 282; p. 419.
- Seal, Impression-. L. Maze. No. 1,369,290; Feb. 22; v. 283; p. 613.
- Seal-lock. R. H. Jones. No. 1,397,587; Nov. 22.
- Seal-press, &c. R. E. Beckert. No. 1,399,735; Dec. 13.
- Seal-press. C. C. Gibson. No. 1,394,165; Oct. 18.
- Seal-press, Pocket. H. Hellberg. No. 1,365,401; Jan. 11; v. 282; p. 305.
- Seal-press, Pocket. H. Hellberg. No. 1,399,620; Dec. 6.
- Seal, Shackle-. J. L. Dinsmoor. No. 1,369,010; Feb. 22; v. 283; p. 560.
- Seal, Sinuous head friction-. G. Ramsey. No. 1,386,729; Aug. 9; v. 289; p. 223.
- Seal, Snap-. J. L. Dinsmoor. No. 1,365,307; Jan. 11; v. 282; p. 287.
- Sealer, Electric envelop-. J. Rohdiek. No. 1,378,721; May 17; v. 286; p. 557.
- Sealing-cap-attaching apparatus. W. Heckmann. No. 1,394,086; Oct. 18.
- Sealing containers, Apparatus for. S. W. Forsman. No. 1,388,422; Aug. 23; v. 289; p. 669.
- Sealing device. T. C. Mueller. No. 1,385,749; July 26; v. 288; p. 721.
- Sealing device. A. W. Wildner. No. 1,370,250; Mar. 1; v. 284; p. 94.
- Sealing-machine, Automatic. C. G. Mortimer. No. 1,378,889; May 24; v. 286; p. 662.
- Sealing-machine, Foot-power. F. G. Wieland. No. 1,367,575; Feb. 8; v. 283; p. 195.
- Sealing machine, Wrapper-. D. S. Du Brul. No. 1,380,543; June 7; v. 287; p. 42.
- Sealing mechanism. W. M. Brooks. No. 1,380,038; May 31; v. 286; p. 952.
- Sealing-strip apparatus. E. Huff. No. 1,389,003; Aug. 30; v. 289; p. 838.
- Sealing-tool. E. E. Flora. No. 1,386,098; Aug. 2; v. 289; p. 27.
- Seam-ripping tool. M. J. Blair. No. 1,390,872; Sept. 13; v. 290; p. 355.
- Seaming apparatus. J. W. Brown and W. Hess. No. 1,377,805; May 10; v. 286; p. 233.
- Seaming-machine, Automatic. J. G. Auperin. No. 1,364,474; Jan. 4; v. 282; p. 83.
- Seaming machine, Can-. H. G. Hill. No. 1,398,018; Nov. 22.
- Seaming machine, Sheet-metal-. J. W. Brown and W. Hess. No. 1,381,062; June 7; v. 287; p. 142.
- Seaming mechanism. J. Peyser. No. 1,396,231; Nov. 8.
- Searchlight. R. H. Holman and J. MacGregor. No. 1,382,728; June 28; v. 287; p. 622.
- Searchlight apparatus. H. O. Fletcher. No. 1,364,267; Jan. 4; v. 282; p. 43.
- Searchlight apparatus. H. O. Fletcher. No. 1,364,268; Jan. 4; v. 282; p. 43.
- Searchlight, Balloon-. C. Grooms. No. 1,390,902; Sept. 13; v. 290; p. 362.
- Searchlight for motor-vehicles. B. Carlisle. No. 1,380,313; May 31; v. 286; p. 1004.
- Searchlight-mirrors, Method of and apparatus for preventing injury of. H. Beck. No. 1,375,996; Apr. 26; v. 285; p. 639.
- Searchlight-reflector. C. W. and C. H. Crockett. No. 1,385,429; July 26; v. 288; p. 655.
- Searchlights by the sound of aerial objectives, Apparatus for directing. J. L. Routin. No. 1,372,043; Mar. 22; v. 284; p. 603.
- Seat: See—
- Adjustable seat. Folding seat.
- Angle-iron seat. Jumper-seat.
- Automobile-seat. Reel-seat.
- Auxiliary automobile-seat. Table-seat.
- Auxiliary seat. Tip-up seat.
- Ball-seat. Tractor-seat.
- Bathtub-seat. Valve-seat.
- Car-seat. Vehicle-seat.
- Collapsible seat. Wheeled seat.
- Cushioned seat. Window-seat.
- Seat. P. M. Bangle. No. 1,390,865; Sept. 13; v. 290; p. 354.
- Seat. D. C. Goff. No. 1,400,875; Dec. 20.
- Seat. O. K. Pacht. No. 1,373,200; Mar. 29; v. 284; p. 870.
- Seat. F. G. Parker. No. 1,369,047; Feb. 22; v. 283; p. 567.
- Seat. W. J. Rider. No. 1,366,943; Feb. 1; v. 283; p. 12.
- Seat. W. J. Rider. No. 1,391,275; Sept. 20; v. 290; p. 500.
- Seat. J. H. Stoots. No. 1,399,820; Dec. 13.
- Seat and cushion construction. A. F. Hussander. No. 1,368,397; Feb. 15; v. 283; p. 401.
- Seat-cover, Sanitary. F. M. Vansickle. No. 1,396,480; Nov. 8.
- Seat for children, Collapsible. W. V. Holley. No. 1,398,021; Nov. 22.
- Seat or bed, Collapsible. F. R. Glasener. No. 1,379,683; May 31; v. 286; p. 886.
- Seats, Attachment for the backs of. E. Williford. No. 1,379,499; May 24; v. 286; p. 777.
- Seats, Back for. C. A. Shattuck. No. 1,366,506; Jan. 25; v. 282; p. 604.
- Seating appliance. F. G. Parker. No. 1,400,974; Dec. 20.
- Secondary batteries, Dismantling. R. F. Stein. (Reissue.) No. 15,230; Nov. 15.
- Secondary battery. T. Spencer. No. 1,377,227; May 10; v. 286; p. 217.
- Secondary or storage batteries, Electrode for. J. M. Allen. No. 1,365,880; Jan. 18; v. 282; p. 439.
- Secondary or storage battery. B. Ford. No. 1,367,593; Feb. 8; v. 283; p. 198.
- Secondary or storage battery. B. Ford. No. 1,376,928; May 3; v. 286; p. 105.
- Secondary or storage battery. E. W. Smith. No. 1,392,232; Sept. 27; v. 290; p. 767.
- Sectional boiler. E. O. Haskins. No. 1,391,381; Sept. 20; v. 290; p. 521.
- Sectional boiler. H. G. Thayer and S. T. McLellan. No. 1,399,035; Dec. 6.
- Sectional heater. J. Jungers. No. 1,374,575; Apr. 12; v. 285; p. 273.
- Sectional hollow cast-metal spoke-wheel. J. W. Vander-veer. No. 1,369,368; Feb. 22; v. 283; p. 629.
- Securing-pin. O. E. Burkholder. No. 1,373,596; Apr. 5; v. 285; p. 42.
- Sediment-remover. D. Akers. No. 1,367,449; Feb. 1; v. 283; p. 112.
- Sedimentation. C. H. Nordell. No. 1,400,622; Dec. 20.
- Seed and an agricultural implement for performing the same, Planting. H. E. Williams. No. 1,371,012; Mar. 8; v. 284; p. 284.
- Seed-corn for drying, Machine for preparing. H. J. Headrick and S. A. Palmer. No. 1,389,506; Aug. 30; v. 289; p. 938.
- Seed, Device for distributing. J. J. Bailey. No. 1,383,281; July 5; v. 288; p. 4.
- Seed-extracting machines, Crusher for. B. N. Trautman. No. 1,378,737; May 17; v. 286; p. 560.
- Seed-extracting machines, Riddle for. B. N. Trautman. No. 1,378,736; May 17; v. 286; p. 560.
- Seed-planter. J. Haines. No. 1,399,475; Dec. 6.
- Seed-potato cutter. W. C. Reynolds. No. 1,391,505; Sept. 20; v. 290; p. 546.
- Seed separator and grader. W. V. Van Etten. No. 1,385,957; July 26; v. 288; p. 762.
- Seed-sowing device. S. L. Allen. No. 1,387,436; Aug. 9; v. 289; p. 365.
- Seed-stripper. W. J. Partridge. No. 1,389,157; Aug. 30; v. 289; p. 868.
- Seeds and grain and apparatus for use in connection therewith, Separation or dressing of. M. E. Goddard. No. 1,373,323; Mar. 29; v. 284; p. 894.
- Seeds, Device for separating. F. C. Nourse. No. 1,397,141; Nov. 15.
- Seeds, Device for sprouting. W. Boss. No. 1,376,998; May 3; v. 286; p. 118.
- Seeds, Mechanism for removing useful fiber from. A. A. Vardell. No. 1,375,985; Apr. 26; v. 285; p. 637.
- Seeds, Mechanism for removing useful fiber from. A. A. Vardell. No. 1,375,986; Apr. 26; v. 285; p. 637.
- Seeder. M. V. W. Oliver. No. 1,371,517; Mar. 15; v. 284; p. 446.
- Seeder. E. B. Timmons. No. 1,390,940; Sept. 13; v. 290; p. 370.
- Seeder, Grain-. O. A. Lee. No. 1,371,101; Mar. 8; v. 284; p. 301.



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- Seeder, Harrow-trailing. J. Moen. No. 1,396,877; Nov. 15.
- Seeding-machine. A. F. Hemme. No. 1,380,555; June 7; v. 287; p. 44.
- Seesaw. J. G. Haugh. No. 1,401,906; Dec. 27.
- Seesaw. F. Simons. No. 1,378,733; May 17; v. 286; p. 559.
- Seesaw, Whirling. R. Winchel. No. 1,398,166; Nov. 22.
- Seine. A. Mattson. No. 1,386,889; Aug. 9; v. 289; p. 256.
- Seines, Apparatus for handling purse-. S. Akre. No. 1,390,066; Sept. 6; v. 290; p. 90.
- Selecting mechanism. E. P. Bancroft. No. 1,374,630; Apr. 12; v. 285; p. 283.
- Selection, Method and means of. C. R. Underhill. No. 1,392,609; Oct. 4.
- Selective switch. C. L. Goodrum. No. 1,375,691; Apr. 26; v. 285; p. 582.
- Selective system. J. H. Bell. No. 1,387,228; Aug. 9; v. 289; p. 321.
- Selective system. A. F. Dixon. No. 1,374,192; Apr. 12; v. 285; p. 198.
- Selectively-operable timing mechanism. R. D. Smith. No. 1,385,098; July 19; v. 288; p. 512.
- Selector. J. A. Hall. No. 1,374,201; Apr. 12; v. 285; p. 200.
- Selector terminal bank. J. N. Reynolds. No. 1,367,833; Feb. 9; v. 283; p. 245.
- Selenium oxychlorid, Manufacture of. V. Lenher. No. 1,382,920; June 28; v. 287; p. 658.
- Selenium oxychlorid, Manufacture of. V. Lenher. No. 1,382,921; June 28; v. 287; p. 658.
- Selenium oxychlorid, Manufacture of. V. Lenher. No. 1,382,922; June 28; v. 287; p. 658.
- Self-cooled motor. J. E. Truitt and E. Ackerman. No. 1,383,883; July 5; v. 288; p. 129.
- Self-dumping bar-carrier. F. H. Smith. No. 1,390,650; Sept. 13; v. 290; p. 312.
- Self-heating smoothing-iron. F. M. E. Blass. No. 1,393,423; Oct. 11.
- Self-latching gate. T. Childers. No. 1,374,878; Apr. 12; v. 285; p. 831.
- Self-laying twin tractor wheel. F. D. Maris. No. 1,388,737; Aug. 23; v. 289; p. 737.
- Self-lowering jack. F. L. Gormley. No. 1,395,341; Nov. 1.
- Self-lubricating spring. F. R. Harrington. No. 1,395,494; Nov. 1.
- Self-serving table. L. P. Bouvier. No. 1,396,246; Nov. 8.
- Self-starter. F. B. Stockdale and H. A. Simpson. No. 1,386,139; Aug. 2; v. 289; p. 35.
- Self-starter or the like. O. A. Ross. No. 1,389,701; Sept. 6; v. 290; p. 28.
- Self-starting synchronous motor. H. E. Warren. No. 1,390,319; Sept. 13; v. 290; p. 245.
- Self-starting synchronous motor. H. E. Warren. No. 1,390,320; Sept. 13; v. 290; p. 245.
- Self-supporting sled-tongue. L. M. Hellens and G. C. Shafer. No. 1,374,148; Apr. 5; v. 285; p. 149.
- Self-watering flower-pot. W. T. Ambrose. No. 1,383,368; July 5; v. 288; p. 23.
- Self weighing and sacking machine. J. E. Jewell. No. 1,386,506; Aug. 2; v. 289; p. 105.
- Selva, Method and apparatus for treating. M. A. Replogle. No. 1,375,468; Apr. 19; v. 285; p. 506.
- Selva-trimmer. F. J. McDonald. No. 1,367,068; Feb. 1; v. 283; p. 37.
- Selva-trimmer. R. S. Trognier. No. 1,379,597; May 24; v. 286; p. 795.
- Semaphore. W. F. Bossert. No. 1,390,082; Sept. 6; v. 290; p. 106.
- Semaphore-signal, Electrically-operated. C. S. Bushnell. No. 1,377,392; May 10; v. 286; p. 250.
- Semaphore-signals, Lamp-bracket for. A. C. Kilgour. No. 1,370,453; Mar. 1; v. 284; p. 132.
- Semaphore, Street-. J. M. Walsh. No. 1,384,365; July 12; v. 288; p. 279.
- Semicellulose, Manufacture of. T. and E. Kittelsen. No. 1,365,039; Jan. 11; v. 282; p. 237.
- Semifluid material, Apparatus for applying. D. S. Chapin. No. 1,399,849; Dec. 13.
- Semisolid and pasty substances, Receptacle for containing and discharging. J. F. Craven. No. 1,387,473; Aug. 16; v. 289; p. 422.
- Semisolid materials, Holder for. C. G. Hornung. No. 1,391,253; Sept. 20; v. 290; p. 496.
- Semisolid substances, Machine for dispensing. J. E. Dungan. No. 1,384,310; July 12; v. 288; p. 267.
- Semitrailer. A. J. Borst, Jr. No. 1,383,381; July 5; v. 288; p. 26.
- Semitrailer. A. P. Lee. No. 1,385,177; July 19; v. 288; p. 529.
- Semolina, Treatment of. A. R. Goodwin. No. 1,368,792; Feb. 15; v. 283; p. 478.
- Sensitive material-marking device. J. P. Bethke. No. 1,374,875; Apr. 12; v. 285; p. 331.
- Sensitized material, Making markings on. J. P. Bethke. No. 1,375,814; Apr. 26; v. 285; p. 604.
- Separable chair. B. Albergoli. No. 1,392,242; Sept. 27; v. 290; p. 769.
- Separable fastener. D. Bourque. No. 1,367,350; Feb. 1; v. 283; p. 93.
- Separable fastener. R. Zibul. No. 1,368,316; Feb. 15; v. 283; p. 385.
- Separable-tooth cutter. H. B. McDonald. No. 1,365,180; Jan. 11; v. 282; p. 262.
- Separating machine, Raisin-. E. E. Stanley. No. 1,369,986; Mar. 1; v. 284; p. 44.
- Separating substances of different dielectric capacities, Apparatus for. H. M. Sutton and W. L. and E. G. Steele. No. 1,386,287; Aug. 2; v. 289; p. 64.
- Separating-trap. W. A. Shorb. No. 1,396,384; Nov. 8.
- Separator. See—
- Adjustable air-separator. Magnetic separator.
  - Air-separator. Material-separator.
  - Ash-separator. Mercury-separator.
  - Bean-separator. Oil-separator.
  - Centrifugal dust-separator. Ore-separator.
  - Centrifugal separator. Screen-separator.
  - Cotton-separator. Steam-separator.
  - Cream-separator. Stock separator.
  - Dust-separator. Storage-battery separator.
  - Electrolytic-cell separator. Tailing-separator.
  - Gas and liquid separator. Tailings-separator.
  - Gas, oil, and sand separator. Telephone-switch separator.
  - Gold-separator. Thresher-separator.
  - Grain-separator. Twister-spindle separator.
  - Grease and oil separator. Wild-oat separator.
  - Hydraulic jig-separator. Wild-pea separator.
- Separator. L. F. Fraser. No. 1,390,898; Sept. 13; v. 290; p. 361.
- Separator. M. S. MacCarthy. No. 1,364,945; Jan. 11; v. 282; p. 217.
- Separator. C. J. Merrill. No. 1,382,846; June 28; v. 287; p. 644.
- Separator. F. W. Miller. No. 1,396,939; Nov. 15.
- Separator. B. F. Renn. No. 1,372,828; Mar. 29; v. 284; p. 795.
- Separator. T. L. Sturtevant. No. 1,397,539; Nov. 15.
- Separator. T. J. Sturtevant. No. 1,400,467; Dec. 13.
- Separator. T. L. T. J., and L. H. Sturtevant. No. 1,397,336; Nov. 15.
- Separator. G. L. Yager. No. 1,389,085; Aug. 30; v. 289; p. 854.
- Separator and evaporator, Automatic. C. Allen. No. 1,374,135; Apr. 5; v. 285; p. 146.
- Separator disk, Centrifugal. G. M. Andersson. No. 1,365,643; Jan. 18; v. 282; p. 391.
- Separator for concentrating-jigs, Chat-. A. H. Rudge. No. 1,385,277; July 19; v. 288; p. 548.
- Separator-sieves, Forming and constructing the meshed elements of. D. E. Hoffman. No. 1,386,335; Aug. 2; v. 289; p. 74.
- Separators and the like, Machine for making battery-. H. O. Camm. No. 1,364,244; Jan. 4; v. 282; p. 38.
- Separators, Apparatus for fitting inserts in. C. W. Hazelett and F. A. Holt. No. 1,392,155; Sept. 27; v. 290; p. 751.
- Separators, Drive for cream-. W. E. Rathbun. No. 1,383,854; July 5; v. 288; p. 124.
- Separators, Forming storage-battery. T. A. Willard. No. 1,375,763; Apr. 26; v. 285; p. 594.
- Separators, Producing. C. J. Thatcher. No. 1,393,467; Oct. 11.
- Septic-sewage-disposal pipe. W. H. Nicholas. No. 1,394,780; Oct. 25.
- Septic tank. F. F. Beeby. No. 1,381,615; June 14; v. 287; p. 296.
- Sepulcher, Concrete. J. A. Green. No. 1,373,326; Mar. 29; v. 284; p. 895.
- Serums from animals, excluding man, Manufacture of. W. J. Penfold. No. 1,378,896; May 24; v. 286; p. 663.
- Service-box. R. H. Mueller. No. 1,394,754; Oct. 25.
- Service establishment and customer's waiting room therefor. B. W. Klein. No. 1,399,390; Dec. 6.
- Service-holder for carrying dishes. H. Zoia. No. 1,369,999; Mar. 1; v. 283; p. 47.
- Service system, Convertible. H. O. Brigham. No. 1,369,387; Feb. 22; v. 283; p. 832.
- Serving-machine. V. P. Adams. No. 1,392,611; Oct. 4.
- Serving-machine. W. Green. No. 1,382,502; June 21; v. 287; p. 525.
- Serving mechanism, Restaurant. R. A. Mabry. No. 1,367,161; Feb. 1; v. 283; p. 55.
- Serving-spindle. G. M. Montgomery and G. L. Mason. No. 1,386,350; Aug. 2; v. 289; p. 77.
- Serving-table. A. Boysen. No. 1,391,755; Sept. 27; v. 290; p. 670.
- Serving-table. F. A. Osterberg. No. 1,380,007; May 31; v. 286; p. 946.
- Seyring bars. P. J. Culhane, Jr. No. 1,366,063; Jan. 18; v. 282; p. 474.
- Seyring blooms. C. P. Kemble. No. 1,366,693; Jan. 25; v. 282; p. 642.
- Sewage, Apparatus for purifying and disposing of. W. C. Ferguson. No. 1,380,200; May 31; v. 286; p. 983.
- Sewage, apparatus for treating. E. F. Overton. No. 1,401,182; Dec. 27.
- Sewage, Apparatus for treating. C. L. Peck. No. 1,392,214; Sept. 27; v. 290; p. 763.
- Sewage clarification, Settling-tank for. K. Imhoff. No. 1,399,562; Dec. 6.



- Sewage-disposal system. C. W. Russell. No. 1,379,047; May 24; v. 286; p. 691.
- Sewage, Method of and apparatus for treating. C. P. Landreth. No. 1,364,387; Jan. 4; v. 282; p. 66.
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- Sewage, Treating. J. P. Ball. No. 1,364,676; Jan. 4; v. 282; p. 121.
- Sewage treatment. W. R. Borst. No. 1,396,397; Nov. 8.
- Sewage treatment. H. W. Morgan. No. 1,392,197; Sept. 27; v. 290; p. 760.
- Sewage treatment. C. L. Peck. No. 1,392,211; Sept. 27; v. 290; p. 762.
- Sewage treatment. C. L. Peck. No. 1,392,212; Sept. 27; v. 290; p. 762.
- Sewage treatment. C. L. Peck. No. 1,392,213; Sept. 27; v. 290; p. 763.
- Sewer construction. H. J. Cathroe. No. 1,367,511; Feb. 1; v. 283; p. 125.
- Sewer-refilling tray. B. D. Jacovett. No. 1,395,828; Nov. 1.
- Sewer-structure invert section. J. H. Zinn. No. 1,399,454; Dec. 6.
- Sewers and tunnels, Building. J. Winterbottom. No. 1,372,856; Mar. 29; v. 284; p. 801.
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- Sewed articles, Concealed-stitched binding for. C. McNeil. No. 1,374,211; Apr. 12; v. 285; p. 202.
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- Sewing apparatus, Filled-sack-. F. W. Ostrom and I. F. Webb. No. 1,396,048; Nov. 8.
- Sewing apparatus, Mock-seam-. E. A. Cordin and E. C. Stanley. No. 1,367,239; Feb. 1; v. 283; p. 71.
- Sewing device. H. C. Lewis. No. 1,377,209; May 10; v. 286; p. 214.
- Sewing device, Portable. P. Kantor. No. 1,364,936; Jan. 11; v. 282; p. 216.
- Sewing looped fabrics, Attachment for machines for. E. C. Lochhead and L. P. Brewer. No. 1,389,520; Aug. 30; v. 289; p. 940.
- Sewing-machine. F. Ashworth. No. 1,383,447; July 5; v. 288; p. 40.
- Sewing-machine. W. L. Barron and F. E. Osol. No. 1,388,914; Aug. 30; v. 289; p. 820.
- Sewing-machine. A. A. Bouton. No. 1,383,976; July 5; v. 288; p. 149.
- Sewing-machine. H. Corral. No. 1,397,622; Nov. 22.
- Sewing-machine. F. Crozet. No. 1,383,604; July 5; v. 288; p. 71.
- Sewing-machine. A. H. De Voe. No. 1,369,405; Feb. 22; v. 283; p. 636.
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- Sewing-machine. J. S. Finch. No. 1,394,075; Oct. 18.
- Sewing-machine. J. A. Flanagan. No. 1,387,138; Aug. 9; v. 289; p. 305.
- Sewing-machine. J. A. Flanagan. No. 1,387,143; Aug. 9; v. 289; p. 306.
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- Sewing-machine. G. S. Hill. No. 1,389,000; Aug. 30; v. 289; p. 837.
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- Sewing-machine. R. R. Hughes, Jr. No. 1,376,623; May 3; v. 286; p. 46.
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- Sewing-machines, Thread cutting and nipping mechanism for. E. B. Allen. No. 1,369,371; Feb. 22; v. 283; p. 629.
- Sewing-machines, Thread-cutting and thread-end-holding device for embroidery. J. Lindsay. No. 1,373,747; Apr. 5; v. 285; p. 71.
- Sewing-machines, Thread gripping and cutting device for shoe. T. H. Seely. No. 1,396,066; Nov. 8.
- Sewing-machines, Thread-measuring mechanism for. E. E. Foster. No. 1,369,414; Feb. 22; v. 283; p. 638.
- Sewing-machines, Thread-severing mechanism for. A. H. De Voe. No. 1,401,465; Dec. 27.
- Sewing-machines, Trimming device for. W. A. Neely. No. 1,385,329; July 19; v. 288; p. 558.
- Sewing-machines, Trimming mechanism for. A. H. De Voe. No. 1,388,411; Aug. 23; v. 289; p. 667.
- Sewing-machines, Trimming mechanism for. G. S. Gatchell. No. 1,397,002; Nov. 15.
- Sewing-machines, Work-clamping mechanism for. E. B. Allen. No. 1,379,894; May 31; v. 286; p. 925.
- Sewing-machines, Work-feed mechanism of. M. T. Denne. No. 1,380,888; June 7; v. 287; p. 108.
- Sewing-machines, Work-holder for. W. L. Barron. No. 1,366,348; Jan. 25; v. 282; p. 573.
- Sewing-machines, Work-holder for. W. L. Barron and A. F. Fifield. No. 1,387,034; Aug. 9; v. 289; p. 285.
- Sextant. H. A. Hughes and T. Y. Baker. No. 1,383,950; July 5; v. 288; p. 143.
- Shackle. H. A. Kroh. No. 1,378,798; May 17; v. 286; p. 572.
- Shackle. G. B. Robertson. No. 1,378,619; May 17; v. 286; p. 537.
- Shackle. W. A. Tryon. No. 1,367,760; Feb. 8; v. 283; p. 231.
- Shackle, Double-acting elastic. V. F. Reich. No. 1,373,449; Apr. 5; v. 285; p. 13.
- Shackle-hook. F. T. Dunham. No. 1,381,405; June 14; v. 287; p. 257.
- Shackle, Spring. E. L. Ball. No. 1,370,623; Mar. 8; v. 284; p. 210.
- Shackles to submerged objects, Device for attaching. J. A. Miller. No. 1,388,363; Aug. 23; v. 289; p. 657.
- Shade-adjuster. C. M. Eveleth. No. 1,368,128; Feb. 8; v. 283; p. 300.
- Shade and curtain bracket. J. Baranski. No. 1,387,752; Aug. 16; v. 289; p. 479.
- Shade and curtain bracket. C. M. Durnell. No. 1,384,246; July 12; v. 288; p. 254.
- Shade and curtain fixture. Combined window. W. C. J. Miller. No. 1,376,385; Apr. 26; v. 285; p. 713.
- Shade and curtain hanger. S. O. Dougherty. No. 1,392,405; Oct. 4.
- Shade and curtain hanger. J. W. Jackson. No. 1,370,817; Mar. 8; v. 284; p. 248.
- Shade and curtain holder. H. Umphrey. No. 1,375,805; Apr. 26; v. 285; p. 602.
- Shade appliance. A. C. Hough. No. 1,397,215; Nov. 15.



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- Shade-bracket. W. H. Booth. No. 1,383,975; July 5; v. 283; p. 148.
- Shade-bracket. F. A. Duprat. No. 1,371,878; Mar. 15; v. 284; p. 515.
- Shade-bracket. W. Martel. No. 1,370,545; Mar. 8; v. 284; p. 195.
- Shade-bracket. E. C. Pixley. No. 1,395,870; Nov. 1.
- Shade-bracket. A. Zebrowski. No. 1,389,415; Aug. 30; v. 289; p. 920.
- Shade bracket, Adjustable. J. Abetz. No. 1,368,091; Feb. 8; v. 283; p. 293.
- Shade-bracket, Adjustable. J. H. Gilbert. No. 1,374,498; Apr. 12; v. 285; p. 258.
- Shade-bracket and pole-support, Combined. H. E. Church. No. 1,398,418; Nov. 29.
- Shade bracket, Window-. P. J. Oths. No. 1,387,610; Aug. 16; v. 289; p. 451.
- Shade bracket, Window-. C. H. Robinson. No. 1,397,456; Nov. 15.
- Shade-cloth, Clamp for. L. B. Girard. No. 1,371,417; Mar. 15; v. 284; p. 426.
- Shade-fixture. W. M. Neale. No. 1,389,264; Aug. 30; v. 289; p. 890.
- Shade guard, Window-. E. V. N. Tomasulo. No. 1,379,663; May 31; v. 286; p. 882.
- Shade guard, Window-. E. V. N. Tomasulo. No. 1,379,664; May 31; v. 286; p. 882.
- Shade-holder. A. Balint. No. 1,373,288; Mar. 29; v. 284; p. 887.
- Shade-holder. E. J. Dailey, Jr. No. 1,387,474; Aug. 16; v. 289; p. 423.
- Shade-holder. H. D. McFadden. No. 1,384,395; July 12; v. 288; p. 285.
- Shade-holder. R. R. Rundell. No. 1,370,671; Mar. 8; v. 284; p. 219.
- Shade-holder. G. B. Thomas. No. 1,385,896; July 26; v. 288; p. 750.
- Shade-holder. E. C. White. No. 1,379,066; May 24; v. 286; p. 695.
- Shade holder, Quick-adjustable window-. J. Kuczynski. No. 1,371,033; Mar. 8; v. 284; p. 288.
- Shade or reflector and support therefor. G. J. Dormandy. No. 1,371,549; Mar. 15; v. 284; p. 452.
- Shade-roller. E. Carlson and M. W. Richard. No. 1,379,898; May 31; v. 286; p. 926.
- Shade-roller. I. G. Cutright and J. A. Sharps. No. 1,389,579; Sept. 6; v. 290; p. 4.
- Shade-roller. P. W. Smith. No. 1,376,977; May 3; v. 286; p. 114.
- Shade-roller. H. Sorensen. No. 1,399,812; Dec. 13.
- Shade-roller. F. E. Williams. No. 1,373,641; Apr. 5; v. 285; p. 50.
- Shade-roller, Adjustable. P. Englert. No. 1,374,839; Apr. 12; v. 285; p. 323.
- Shade-roller and curtain-supporting bracket, Combined. J. N. Gauzenhuber. No. 1,397,806; Nov. 22.
- Shade-roller bracket. P. B. Barnard. No. 1,372,390; Mar. 22; v. 284; p. 670.
- Shade-roller bracket. H. M. Ward. No. 1,378,638; May 17; v. 286; p. 541.
- Shade-roller fixture. J. A. Sharps and I. G. Cutright. No. 1,389,603; Sept. 6; v. 290; p. 9.
- Shade-roller hood. C. W. Kirsch. No. 1,388,346; Aug. 23; v. 289; p. 654.
- Shade-roller, Multiple. A. D. Brixey. No. 1,377,461; May 10; v. 286; p. 264.
- Shade-roller support. J. E. McCloskey. No. 1,392,512; Oct. 4.
- Shade-roller support. L. Walker. No. 1,377,038; May 3; v. 286; p. 126.
- Shades and colors, Apparatus for comparing, matching, and measuring. H. S. Busby. No. 1,384,513; July 12; v. 288; p. 309.
- Shades and curtains, Supporting and stretching bracket for. L. Gladish. No. 1,392,575; Oct. 4.
- Shades, Support for. C. W. Davis. No. 1,385,984; Aug. 2; v. 289; p. 4.
- Shaft-bearings, Oil-closure for. H. Vanderbeek. No. 1,370,861; Mar. 8; v. 284; p. 255.
- Shaft, Collapsible. H. T. Rice. No. 1,392,798; Oct. 4.
- Shaft-coupling. E. F. Carlsen. No. 1,378,091; May 17; v. 286; p. 437.
- Shaft-coupling. E. W. Mikaelson. No. 1,372,444; Mar. 22; v. 284; p. 679.
- Shaft-coupling. J. E. Sparling. No. 1,377,101; May 3; v. 286; p. 138.
- Shaft coupling. O. O. Walbert. No. 1,371,828; Mar. 15; v. 284; p. 505.
- Shaft-coupling. A. C. Woodward. No. 1,393,064; Oct. 11.
- Shaft-coupling and making same. C. Steenstrup. No. 1,393,582; Oct. 11.
- Shaft-coupling, Flexible. W. R. Fox. No. 1,371,750; Mar. 15; v. 284; p. 490.
- Shaft-coupling, Flexible. C. E. Reddig. No. 1,387,177; Aug. 9; v. 289; p. 313.
- Shaft-coupling, Flexible. R. R. Romney. No. 1,368,574; Feb. 15; v. 283; p. 436.
- Shaft-coupling, Flexible. G. H. Thomas. No. 1,396,979; Nov. 15.
- Shaft, Drive-. J. E. Goddard. No. 1,387,384; Aug. 9; v. 289; p. 354.
- Shaft-fastening. C. F., C. G., L. K., and J. T. Redmon. No. 1,367,500; Feb. 1; v. 283; p. 123.
- Shaft-furnace. C. Glesecke. No. 1,399,297; Dec. 6.
- Shaft guard, Flexible. C. H. Beach. No. 1,391,092; Sept. 20; v. 290; p. 463.
- Shaft-hanger. A. H. De Voe. No. 1,378,402; May 17; v. 286; p. 495.
- Shaft-hanger. J. C. Fitzgerald. No. 1,387,044; Aug. 9; v. 289; p. 287.
- Shaft-hanger. H. F. Gade. No. 1,383,293; July 5; v. 288; p. 7.
- Shaft-hanger. B. Weinberger. No. 1,387,571; Aug. 16; v. 289; p. 443.
- Shaft-hanger, Adjustable. C. Sherwood. No. 1,374,865; Apr. 12; v. 285; p. 329.
- Shaft-lubricator. F. J. Schwartz. No. 1,371,817; Mar. 15; v. 284; p. 503.
- Shaft mounting, Eccentric-. L. I. Ziegler. No. 1,373,930; Apr. 5; v. 285; p. 108.
- Shaft-packing. C. Steenstrup. No. 1,382,941; June 28; v. 287; p. 662.
- Shaft-packing. J. Wilkinson. No. 1,394,959; Oct. 25.
- Shaft, Universal. W. L. Bell. No. 1,390,484; Sept. 13; v. 290; p. 277.
- Shafts, Adjustable bushing for reamer-. A. A. Martell. No. 1,376,451; May 3; v. 286; p. 14.
- Shafts, Bearing for. C. G. von Post. No. 1,386,745; Aug. 9; v. 289; p. 226.
- Shafts, Device for driving. W. Smedley. No. 1,379,941; May 31; v. 286; p. 934.
- Shafts, Lubricating and packing device for. J. T. Auger. No. 1,374,895; Apr. 19; v. 285; p. 397.
- Shafts, Means for actuating speed-indicating devices, governors, and other devices from rotating. G. Constantinesco. No. 1,386,925; Aug. 9; v. 289; p. 263.
- Shafts or journals, Connection for. G. Fuegel and H. Schmid. No. 1,378,446; May 17; v. 286; p. 503.
- Shafts or wells, Sealing. W. E. Emery. No. 1,394,718; Oct. 25.
- Shafts, Packing for rotary. H. H. Wait. No. 1,377,143; May 3; v. 286; p. 145.
- Shafts, Packing-ring for rotary. W. G. E. Rolaf. No. 1,383,028; June 28; v. 287; p. 679.
- Shafts, Reversing mechanism for. K. R. Tellefsen. No. 1,394,373; Oct. 18.
- Shafts, Reversing mechanism for rotating. L. C. Sturbelle. No. 1,369,573; Feb. 22; v. 283; p. 669.
- Shaker. E. H. Copen. No. 1,391,096; Sept. 20; v. 290; p. 463.
- Shaker. C. E. Johnson. No. 1,389,510; Aug. 30; v. 289; p. 939.
- Shaker-screen apparatus. O. G. Petersen. No. 1,372,775; Mar. 29; v. 284; p. 784.
- Shaker top or cap. R. W. Wilson. No. 1,386,042; Aug. 2; v. 289; p. 16.
- Shaker top or cap. R. W. Wilson. No. 1,386,043; Aug. 2; v. 289; p. 16.
- Shaker top or cap. R. W. Wilson. No. 1,386,044; Aug. 2; v. 289; p. 17.
- Shakers, Automatic feeding means for. P. Sterling. No. 1,401,370; Dec. 27.
- Shale and like material, Treating. L. B. Ard. No. 1,373,698; Apr. 5; v. 285; p. 61.
- Shale, Apparatus for treating. L. B. Ard. No. 1,373,699; Apr. 5; v. 285; p. 62.
- Shank and bit punch. J. Ditson. No. 1,395,702; Nov. 1.
- Shank and bit punch. W. A. Smith. No. 1,395,747; Nov. 1.
- Shank-edge trimmer. E. E. Winkley. No. 1,372,058; Mar. 22; v. 284; p. 605.
- Shank-stiffener. W. H. Foss. No. 1,397,681; Nov. 22.
- Shaper. E. G. Loomis. No. 1,370,895; Mar. 8; v. 284; p. 261.
- Shaper-machines, Adjustable guide-collar for. W. R. White. No. 1,400,472; Dec. 13.
- Shapers, Knife-holder for. W. M. Knourek. No. 1,368,403; Feb. 15; v. 283; p. 402.
- Shark-skins, &c., Treating. A. Rogers. No. 1,395,773; Nov. 1.
- Sharpener, Blade-. A. Paul. No. 1,388,882; Aug. 30; v. 289; p. 813.
- Sharpener, Disk-. C. B. Hutchins. No. 1,374,012; Apr. 5; v. 285; p. 123.
- Sharpener, Disk-. E. Nolin. No. 1,370,350; Mar. 1; v. 284; p. 113.
- Sharpener, Disk-. P. Rink. No. 1,393,967; Oct. 18.
- Sharpener, Drill-. E. L. Oldham. No. 1,394,214; Oct. 18.
- Sharpener, Drill-. W. A. Smith. No. 1,393,403; Oct. 11.
- Sharpener for cutting instruments. C. C. Dickinson. No. 1,391,763; Sept. 27; v. 290; p. 671.
- Sharpener, Knife-. C. J. Eisenhauer. No. 1,365,161; Jan. 11; v. 282; p. 259.
- Sharpener, Knife-. J. Ranz. No. 1,381,334; June 14; v. 287; p. 244.
- Sharpener, Lawn-mower. R. Stone. No. 1,391,702; Sept. 27; v. 290; p. 660.
- Sharpener, Pencil-. S. Jensen. No. 1,375,295; Apr. 19; v. 285; p. 474.
- Sharpener, Pencil-. W. C. Johnson. No. 1,393,378; Oct. 11.
- Sharpener, Pencil-. M. Scougale. No. 1,372,562; Mar. 22; v. 284; p. 702.
- Sharpener, Pencil-. S. Whitehead. No. 1,395,241; Oct. 25.
- Sharpener, Phonograph-needle. A. W. Wahlm. No. 1,401,213; Dec. 27.



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- Sharpener, Skate-. V. V. Mitchell. No. 1,388,659; Aug. 23; v. 289; p. 715.
- Sharpeners, Making cutters for pencil-. A. P. Wilson. No. 1,383,045; June 28; v. 287; p. 682.
- Sharpeners, Making cutters for pencil-. A. P. Wilson. No. 1,383,046; June 28; v. 287; p. 682.
- Sharpeners, Making cutters for pencil-. A. P. Wilson. No. 1,383,047; June 28; v. 287; p. 682.
- Sharpening cutlery, Steel for-. E. C. Martin. No. 1,394,927; Oct. 25.
- Sharpening device. F. A. Chenette. No. 1,368,218; Feb. 8; v. 283; p. 318.
- Sharpening device, Blade-. G. D. Gallagher. (Reissue.) No. 15,250; Dec. 20.
- Sharpening device for razor-blades. F. A. Fuller. No. 1,378,851; May 24; v. 286; p. 654.
- Sharpening device, Razor-. N. E. Gibson. No. 1,366,532; Jan. 25; v. 282; p. 610.
- Sharpening device, Razor-blade-. J. Simpko. No. 1,371,939; Mar. 15; v. 284; p. 526.
- Sharpening device, Rock-drill-. J. H. Hines. No. 1,397,960; Nov. 22.
- Sharpening device, Rotary-cutter-. B. F. Johnson. No. 1,367,703; Feb. 8; v. 283; p. 220.
- Sharpening machine, Blade-. C. C. King. No. 1,365,696; Jan. 18; v. 282; p. 401.
- Sharpening pencil-pointers, Means for-. R. R. Rundell. No. 1,391,080; Sept. 20; v. 290; p. 460.
- Shaving-cup. L. A. Amls. No. 1,369,766; Mar. 1; v. 284; p. 3.
- Shaving-cup, Stationary self-cleansing. T. J. Kiriakou. No. 1,383,639; July 5; v. 288; p. 79.
- Shaving-gage. G. Posnick. No. 1,391,274; Sept. 20; v. 290; p. 500.
- Shaving-mug attachment. C. J. Daraban. No. 1,378,661; May 17; v. 286; p. 646.
- Shaving purposes, Soap-box for-. W. J. and J. J. Toner. No. 1,379,885; May 31; v. 286; p. 923.
- Shaving set, Combination. P. Dynowsky. No. 1,369,012; Feb. 22; v. 283; p. 560.
- Shaving-soap sticks, Holder for-. F. Grant. No. 1,374,157; Apr. 5; v. 285; p. 151.
- Shaving-stick package. M. B. Behrman. No. 1,379,674; May 31; v. 286; p. 884.
- Shawl-coat. L. Katzman. No. 1,373,248; Mar. 29; v. 284; p. 879.
- Sheaf-cutting machine. H. Siebert. No. 1,382,562; June 21; v. 287; p. 536.
- Sheaf-elevator. A. M. Dellinger. No. 1,395,561; Nov. 1.
- Sheaf-loader. B. C. Berry. No. 1,372,395; Mar. 22; v. 284; p. 671.
- Shearing-machine. M. O. Rehfuß. No. 1,380,249; May 31; v. 286; p. 992.
- Shearing machine, Cloth-. C. G. Richardson. No. 1,372,978; Mar. 29; v. 284; p. 826.
- Shears. J. H. Byer. No. 1,374,819; Apr. 12; v. 285; p. 319.
- Shears. R. W. Greenberg. No. 1,368,431; Feb. 15; v. 283; p. 408.
- Shears. O. A. Goetze. No. 1,391,827; Sept. 27; v. 290; p. 684.
- Shears. E. O'Neil. No. 1,398,111; Nov. 22.
- Shears. C. Roach. No. 1,373,638; Apr. 5; v. 285; p. 50.
- Shears. E. C. Royer. No. 1,400,378; Dec. 13.
- Shears. H. A. W. Smith. No. 1,390,730; Sept. 13; v. 290; p. 327.
- Shears. T. C. Stene. No. 1,399,668; Dec. 6.
- Shears, Animal-. C. M. Palmer. No. 1,388,439; Aug. 23; v. 289; p. 673.
- Shears-grinder. A. T. Scheiwer and D. Ferguson. No. 1,390,726; Sept. 13; v. 290; p. 326.
- Sheathing, Reinforced. A. Turton. No. 1,374,254; Apr. 12; v. 285; p. 210.
- Sheathing-vise. H. A. Lee. No. 1,377,207; May 10; v. 286; p. 214.
- Sheave-block. J. H. Dickinson. No. 1,368,390; Feb. 15; v. 283; p. 400.
- Sheave-block. E. E. Edstrom. No. 1,378,844; May 24; v. 286; p. 653.
- Sheave, sprocket, or gear construction. J. R. Watts. No. 1,378,156; May 17; v. 286; p. 449.
- Shed, hangar, and other similar structure, Portable. G. Hervieu and P. M. G. Maréchal. No. 1,376,937; May 3; v. 286; p. 106.
- Sheep, Dismountable and portable plant for dipping. C. B. Svensen. No. 1,384,168; July 12; v. 288; p. 238.
- Sheep-holding device. S. H. Cross. No. 1,401,393; Dec. 27.
- Sheet and making same, Composite metallic. B. J. Sweeney. No. 1,383,172; June 28; v. 287; p. 706.
- Sheet and making same, Fibrous. W. F. McKay. No. 1,365,711; Jan. 18; v. 282; p. 405.
- Sheet and tin plate bars, Heat-treating. T. V. Allis. No. 1,367,000; Feb. 1; v. 283; p. 24.
- Sheet, Composite. H. S. Lewis. No. 1,374,931; Apr. 19; v. 285; p. 403.
- Sheet-controlling mechanism. A. P. Gustafson. No. 1,372,657; Mar. 22; v. 284; p. 720.
- Sheet-counter. E. Morell. No. 1,384,710; July 12; v. 288; p. 351.
- Sheet-driving mechanism. J. Lengyel and H. Doll. No. 1,366,918; Feb. 1; v. 283; p. 7.
- Sheet-feeders, Controlling mechanism for pneumatic. J. Tauscher. No. 1,367,331; Feb. 1; v. 283; p. 89.
- Sheet-feeding. C. Winkler. No. 1,376,183; Apr. 26; v. 285; p. 675.
- Sheet-feeding apparatus. F. A. Drury. No. 1,394,613; Oct. 25.
- Sheet-feeding device. E. J. Brasseur. No. 1,371,068; Mar. 8; v. 284; p. 295.
- Sheet-feeding device. E. A. Feddersen and R. F. Schott. No. 1,375,042; Apr. 19; v. 285; p. 426.
- Sheet-feeding device. D. Neihart. No. 1,365,534; Jan. 11; v. 282; p. 331.
- Sheet-feeding device. G. Spiess. No. 1,400,778; Dec. 20.
- Sheet-feeding device, Automatic. R. Leumann. No. 1,394,202; Oct. 18.
- Sheet-feeding machine. C. E. Christophel. No. 1,365,380; Jan. 11; v. 282; p. 301.
- Sheet-feeding machine. C. E. Christophel. No. 1,382,952; June 28; v. 287; p. 664.
- Sheet-feeding machine. C. E. Christophel. No. 1,385,666; July 26; v. 288; p. 704.
- Sheet-feeding machine. G. A. Robinson. No. 1,379,938; May 31; v. 286; p. 933.
- Sheet-feeding mechanism. W. R. Anderson and U. G. Edinger. No. 1,367,528; Feb. 8; v. 283; p. 187.
- Sheet-feeding mechanism. A. J. Freeman. No. 1,373,187; Mar. 29; v. 284; p. 868.
- Sheet-feeding mechanism. R. E. Kemper. No. 1,387,494; Aug. 16; v. 289; p. 427.
- Sheet-feeding mechanism. W. A. Weightman and C. H. Nitsch. No. 1,388,678; Aug. 23; v. 289; p. 718.
- Sheet-feeding mechanism. E. White. No. 1,397,305; Nov. 15.
- Sheet-folding machine. A. M. MacFarland. (Reissue.) No. 15,242; Dec. 6.
- Sheet-form material, Machine for cutting. C. B. Gray. No. 1,366,790; Jan. 25; v. 282; p. 661.
- Sheet-form material, Machine for cutting. C. B. Gray. No. 1,381,088; June 7; v. 287; p. 147.
- Sheet-form material, Machine for cutting. C. B. Gray. No. 1,383,618; July 5; v. 288; p. 75.
- Sheet-form material, Machine for cutting. C. B. Gray. No. 1,384,696; July 12; v. 288; p. 349.
- Sheet-glass, Method and apparatus for drawing. J. P. Crowley. No. 1,394,283; Oct. 18.
- Sheet-guide adjustment. J. R. Blaine. No. 1,367,229; Feb. 1; v. 283; p. 69.
- Sheet guide, Draw-. E. B. Hodes. No. 1,368,930; Feb. 15; v. 283; p. 505.
- Sheet-guiding mechanism. S. Birch. No. 1,396,157; Nov. 8.
- Sheet-handling machine. H. M. Barber. No. 1,385,067; July 19; v. 288; p. 506.
- Sheet-handling machine. E. W. Cooper. No. 1,364,983; Jan. 11; v. 282; p. 225.
- Sheet-handling machine. C. E. Dellenbarger. No. 1,395,909; Nov. 1.
- Sheet material, Apparatus for applying covering of. J. P. A. McCoy. No. 1,385,967; July 26; v. 288; p. 763.
- Sheet material, Counter and stacker for. J. P. Renz. No. 1,366,938; Feb. 1; v. 283; p. 11.
- Sheet material, Cutting blanks from. F. M. Furber. No. 1,396,185; Nov. 8.
- Sheet material, Dispensing device for. M. M. Marcuse. No. 1,400,619; Dec. 20.
- Sheet material, Gage for positioning. A. D. Rhodes. No. 1,375,641; Apr. 19; v. 285; p. 540.
- Sheet material, Machine for folding. H. E. Pelton. No. 1,376,969; May 3; v. 286; p. 113.
- Sheet material, Means for feeding. C. F. Pfanze. No. 1,385,468; July 26; v. 288; p. 663.
- Sheet material, Means for stacking. J. W. Free. No. 1,389,244; Aug. 30; v. 289; p. 886.
- Sheet material, Method of and apparatus for breaking the dried coating on. A. C. Van Sluys. No. 1,368,080; Feb. 8; v. 283; p. 291.
- Sheet material, Producing indefinite coloring design on. R. Sykora. No. 1,370,070; Mar. 1; v. 284; p. 59.
- Sheet material, Splitting. C. E. Lucke. No. 1,383,133; June 28; v. 287; p. 698.
- Sheet-metal backing-frame. J. Mandel. No. 1,394,321; Oct. 18.
- Sheet-metal-bending machine. C. B. Weaver. No. 1,384,814; July 19; v. 288; p. 453.
- Sheet-metal-blank feeder. H. A. and R. H. Griffiths. No. 1,394,006; Oct. 18.
- Sheet-metal box. F. Westerbeck. No. 1,398,409; Nov. 29.
- Sheet-metal can. J. Ledwinka. No. 1,370,134; Mar. 1; v. 284; p. 71.
- Sheet metal, Cold-dishing. H. McCabe. No. 1,383,475; July 6; v. 288; p. 45.
- Sheet metal, Cold-hanging straight-edged. H. McCabe. No. 1,368,342; Feb. 15; v. 283; p. 390.
- Sheet metal, Device for straightening. E. P. Orner. No. 1,391,787; Sept. 27; v. 290; p. 676.
- Sheet-metal fastener. C. J. Ocampo. No. 1,399,315; Dec. 6.
- Sheet-metal felly. H. J. Foster. No. 1,379,810; May 31; v. 286; p. 909.
- Sheet-metal gear-case. A. R. Pribil. No. 1,386,026; Aug. 2; v. 289; p. 13.



- Sheet-metal locker. J. O. Nyman and J. P. Pearson. No. 1,394,338; Oct. 18.
- Sheet metal, Magazine for blanks of. H. A. Fink. No. 1,392,750; Oct. 4.
- Sheet metal, Means for fastening soft material to. E. L. Wood. No. 1,381,154; June 14; v. 287; p. 212.
- Sheet-metal point and producing same. A. Dieckmann. No. 1,368,490; Feb. 15; v. 283; p. 420.
- Sheet-metal press. D. C. Canfield. No. 1,368,890; Feb. 15; v. 283; p. 497.
- Sheet metal, Producing a plurality of objects of. T. E. Jr., and J. B. Murray. No. 1,368,045; Feb. 8; v. 283; p. 284.
- Sheet-metal rivet. R. W. Haynes. No. 1,383,806; July 5; v. 288; p. 114.
- Sheet metal, Rolls for hot-rolling. T. R. Colley. No. 1,373,950; Apr. 5; v. 285; p. 112.
- Sheet-metal-seaming machine. J. W. Brown and W. Hess. No. 1,378,651; May 17; v. 286; p. 543.
- Sheet-metal shears, &c., Gage for. F. E. Munschauer. No. 1,366,409; Jan. 25; v. 282; p. 585.
- Sheet-metal structure. C. U. Carpenter. No. 1,373,865; Apr. 5; v. 285; p. 95.
- Sheet-metal tube-forming machine. O. Bark. No. 1,365,019; Jan. 11; v. 282; p. 232.
- Sheet-metal vessel. S. McQuirns. No. 1,370,983; Mar. 8; v. 284; p. 279.
- Sheet-metal wheel. G. A. Gase. No. 1,384,128; July 12; v. 288; p. 230.
- Sheet-metal wheel. P. L. Leisse. No. 1,385,628; July 26; v. 288; p. 696.
- Sheet-piling mechanism. A. Broadmeyer. No. 1,364,978; Jan. 11; v. 282; p. 224.
- Sheet-positioning mechanism. J. White. No. 1,378,205; May 17; v. 286; p. 458.
- Sheet-register detector. J. R. Blaine. No. 1,374,137; Apr. 5; v. 285; p. 147.
- Sheet registering and gaging mechanism. J. White. No. 1,367,110; Feb. 1; v. 283; p. 45.
- Sheet-registering device. E. R. Linebaugh. No. 1,399,064; Dec. 6.
- Sheet, Score-. C. B. Mueller. No. 1,373,016; Mar. 29; v. 284; p. 834.
- Sheet-supporting device. E. P. Jennings. No. 1,392,061; Sept. 27; v. 290; p. 732.
- Sheet-turner. W. A. Lucke. No. 1,392,185; Sept. 27; v. 290; p. 757.
- Sheets by aggregation of flake materials, Process and apparatus for the manufacture of. C. F. Peterson. No. 1,386,896; Aug. 9; v. 289; p. 258.
- Sheets by gluing pieces edge to edge, Forming. A. Elmen-dorf. No. 1,366,172; Jan. 18; v. 282; p. 495.
- Sheets edge to edge, Method of and apparatus for gluing. G. R. Meyercord. No. 1,397,489; Nov. 15.
- Sheets, envelopes, &c., Feeding device for. O. C. Currie. No. 1,373,869; Apr. 5; v. 285; p. 95.
- Sheets, Mechanism for opening. R. Edwards. No. 1,372,013; Mar. 22; v. 284; p. 597.
- Sheets, Method of and apparatus for molding wooden. J. W. Belger. No. 1,369,160; Feb. 22; v. 283; p. 589.
- Sheets of glass to facilitate working on both sides of the sheets, Apparatus for turning over. G. H. L. Debaecker. No. 1,371,868; Mar. 15; v. 284; p. 513.
- Sheets of plastic combination, Apparatus for making. E. E. Davidson. No. 1,397,087; Nov. 15.
- Shelf-adaptor. J. Zimmerman. No. 1,394,133; Oct. 18.
- Shelf-support. C. H. J. Dilg. No. 1,393,012; Oct. 11.
- Shelf-support, Adjustable. G. R. Sperl and A. W. Mierow. No. 1,387,950; Aug. 16; v. 289; p. 518.
- Shelves and analogous purposes, Means for supporting. A. W. Lambert. No. 1,400,960; Dec. 20.
- Shelving. C. M. Coutts. No. 1,388,154; Aug. 16; v. 289; p. 557.
- Shelving. J. B. O'Connor. No. 1,366,743; Jan. 25; v. 282; p. 652.
- Shelving. J. B. O'Connor. No. 1,375,855; Apr. 26; v. 285; p. 612.
- Shelving. D. W. Shiek. No. 1,376,835; May 3; v. 286; p. 86.
- Shelving construction. M. Reigersberg. No. 1,381,501; June 14; v. 287; p. 275.
- Shell and article produced thereby, Securing a nipple to a hollow. R. S. Aspinwall. No. 1,382,049; June 21; v. 287; p. 439.
- Shell and projectile. R. L. Wright. No. 1,374,704; Apr. 12; v. 285; p. 298.
- Shell and projectile. R. L. Wright. No. 1,374,707; Apr. 12; v. 285; p. 298.
- Shell, Armor-piercing. A. Rys. No. 1,383,012; June 28; v. 287; p. 675.
- Shell-bogie for use with ammunition-hoisting apparatus for ordnance. A. T. Dawson and J. Horne. No. 1,401,114; Dec. 20.
- Shell, Elastic, automatic, adjustable blasting-. R. L. Bowman. No. 1,389,292; Aug. 30; v. 289; p. 895.
- Shell, Expansion-. J. H. Phillips. No. 1,392,703; Oct. 4.
- Shell, Explosive. R. N. Cook. No. 1,367,464; Feb. 1; v. 283; p. 116.
- Shell-fish scraper. C. S. Price. No. 1,380,247; May 31; v. 286; p. 991.
- Shell, Illuminating-. H. M. Brayton. No. 1,366,555; Jan. 25; v. 282; p. 615.
- Shell magazine and feeder. B. Monlon. No. 1,384,145; July 12; v. 288; p. 233.
- Shell, Marker-. H. J. Nichols. No. 1,394,335; Oct. 18.
- Shell, Paper-box. H. B. Smith. No. 1,365,351; Jan. 11; v. 282; p. 295.
- Shell used in warfare. J. W. Rooney. No. 1,368,057; Feb. 8; v. 283; p. 287.
- Shell, Vibrating. C. A. Bailey. No. 1,401,859; Dec. 27.
- Shells and blanks therefor, Making cartridge-. L. E. Hooker. No. 1,368,725; Feb. 15; v. 283; p. 466.
- Shells, Device for decapping armor-piercing. T. J. Tresid-der. No. 1,385,897; July 26; v. 288; p. 750.
- Shells, Lifting-hook for. A. D. Lightner and E. D. Holmes. No. 1,376,446; May 3; v. 286; p. 13.
- Shells, Locking means for. V. R. Despard. No. 1,369,167; Feb. 22; v. 283; p. 590.
- Shells, Locking means for. V. R. Despard. No. 1,369,168; Feb. 22; v. 283; p. 590.
- Shells, Manufacturing. F. S. Denneen. No. 1,387,924; Aug. 16; v. 289; p. 513.
- Shells of paper, Machine for forming. E. F. Hulbert. No. 1,380,103; May 31; v. 286; p. 965.
- Shells of paper, Machine for forming. E. F. Hulbert. No. 1,380,104; May 31; v. 286; p. 965.
- Shells, Spiral for. W. A. Ziedler. No. 1,368,981; Feb. 15; v. 283; p. 514.
- Shellac, Apparatus for recovering. T. W. Foote. No. 1,368,426; Feb. 15; v. 283; p. 407.
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- Shelling machine, Peanut-. W. W. Pickron. No. 1,369,465; Feb. 22; v. 283; p. 648.
- Shelter, Collapsible and expansible. J. E. Schumacher. No. 1,375,420; Apr. 19; v. 285; p. 497.
- Shield. H. Simmons. No. 1,399,446; Dec. 6.
- Shield, Dress-skirt. S. C. Hannaford. No. 1,364,276; Jan. 4; v. 282; p. 45.
- Shield, Expansion-. E. W. Marshall. No. 1,394,925; Oct. 25.
- Shield, Expansion-. J. E. Ogden. No. 1,372,035; Mar. 22; v. 284; p. 602.
- Shield, Glare-. T. A. Ramsaur. No. 1,390,384; Sept. 13; v. 290; p. 257.
- Shield, Rain and sun. E. C. Hillman. No. 1,374,919; Apr. 19; v. 285; p. 401.
- Shield, Soundproof. W. A. Shewhart. No. 1,365,425; Jan. 11; v. 282; p. 310.
- Shield, Storm and sun. S. Nakagawa. No. 1,380,829; June 7; v. 287; p. 97.
- Shield, Tongue-. G. Guise. No. 1,365,684; Jan. 18; v. 282; p. 399.
- Shields and projectors, Pack-carrier for. J. E. McNary. No. 1,380,994; June 7; v. 287; p. 129.
- Shifter-lock mechanism. G. C. Jensen. No. 1,373,819; Apr. 5; v. 285; p. 86.
- Shifting mechanism. G. Gran. No. 1,367,694; Feb. 8; v. 283; p. 218.
- Shim. P. E. Fritz. No. 1,391,886; Sept. 27; v. 290; p. 696.
- Shim. F. Haskel. No. 1,379,816; May 31; v. 286; p. 910.
- Shim and making the same. H. H. Stephens and T. Gray. No. 1,365,291; Jan. 11; v. 282; p. 284.
- Shim-holder. G. H. Morrow. No. 1,368,646; Feb. 15; v. 283; p. 450.
- Shine or gloss remover and nap-producer. L. M. Myers. No. 1,401,719; Dec. 27.
- Shingle. H. Abraham. No. 1,385,809; July 26; v. 288; p. 733.
- Shingle. E. R. Snyder. No. 1,365,800; Jan. 18; v. 282; p. 422.
- Shingle and the like, Vitreous-coated. H. Warman. No. 1,373,217; Mar. 29; v. 284; p. 873.
- Shingle-laying gage. J. H. Johnson. No. 1,366,462; Jan. 25; v. 282; p. 596.
- Shingle-machine. R. E. Schwarz. No. 1,396,468; Nov. 8.
- Shingle-machine table. H. Schaake. No. 1,389,321; Aug. 30; v. 289; p. 901.
- Shingle, Prepared roofing-. C. E. Rahr and C. Russell. No. 1,389,979; Sept. 6; v. 290; p. 85.
- Shingle-strip. F. C. Overbury. No. 1,366,590; Jan. 25; v. 282; p. 622.
- Shingle-strips, Machine for making. F. C. Overbury. No. 1,394,342; Oct. 18.
- Shingles, Machine and method for making. H. Wulff. No. 1,381,388; June 14; v. 287; p. 254.
- Shingling straight-edge. A. R. Langeberg. No. 1,380,485; June 7; v. 287; p. 31.
- Ship. M. F. Hill. No. 1,376,878; May 3; v. 286; p. 95.
- Ship. B. B. McCrosky. No. 1,384,140; July 12; v. 288; p. 232.
- Ship. P. M. Mehta. No. 1,371,255; Mar. 15; v. 284; p. 393.
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- Ship construction. J. E. Boyle and D. A. Toal. No. 1,367,942; Feb. 8; v. 283; p. 265.
- Ship construction. M. L. Little. No. 1,372,175; Mar. 22; v. 284; p. 628.
- Ship construction. G. E. Smith. No. 1,384,410; July 12; v. 288; p. 288.



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- Ship construction, Wooden. J. T. L. Lavagetto. No. 1,390,912; Sept. 13; v. 290; p. 364.
- Ship indicating and safety device, Sunken. J. Ardo and O. Phillips. No. 1,384,736; July 19; v. 288; p. 437.
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- Ship, Non-sinkable. J. Janeczek. No. 1,368,935; Feb. 15; v. 283; p. 506.
- Ship, Non-sinkable. S. Sokolowski and J. Forgiel. No. 1,391,421; Sept. 20; v. 290; p. 530.
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- Ship-protector. Y. Dedik. No. 1,397,405; Nov. 15.
- Ship-protector. F. Gerioanne. No. 1,395,813; Nov. 1.
- Ship-raising apparatus. J. Swaney. No. 1,373,574; Apr. 5; v. 285; p. 38.
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- Ship-salvaging device. J. Lodato. No. 1,375,055; Apr. 19; v. 285; p. 428.
- Ship screw-shafts, Coating of. A. Freese. No. 1,385,911; July 26; v. 288; p. 753.
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- Ships against torpedo attacks, Protection of. L. E. Whiton. No. 1,369,586; Feb. 22; v. 283; p. 671.
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- Ships and other vessels, Electrical signaling and indicating device for. R. S. O'Neill. No. 1,389,895; Sept. 6; v. 290; p. 68.
- Ships, Apparatus for coaling. L. Lombi. No. 1,373,436; Apr. 5; v. 285; p. 11.
- Ships, Apparatus for salvaging sunken. E. W. Cox. No. 1,379,533; May 24; v. 286; p. 784.
- Ships, Apparatus for scraping and brushing the hulls of floating. A. F. Browne. No. 1,368,692; Feb. 15; v. 283; p. 459.
- Ships, Apparatus for supplying air to the exterior of hulls of. F. G. Trask. No. 1,398,246; Nov. 29.
- Ship's armor, Hydraulic. P. J. van Poelvoorde. No. 1,375,335; Apr. 19; v. 285; p. 481.
- Ships, Building reinforced-concrete. R. B. Smith. No. 1,373,267; Mar. 29; v. 284; p. 883.
- Ships, Charing apparatus for. R. F. de Tolna. No. 1,389,295; Aug. 30; v. 289; p. 896.
- Ships, Construction of. J. F. King. No. 1,391,389; Sept. 20; v. 290; p. 523.
- Ship's davit. C. B. Osbon. No. 1,401,919; Dec. 27.
- Ships, floating docks, pontoons, and the like, Reinforced concrete construction of. H. C. Ritchie and M. Kahn. No. 1,375,179; Apr. 19; v. 285; p. 452.
- Ships, Gyroscopic compass for. H. C. Ford and H. L. Tanner. (Reissue.) No. 15,072; Mar. 29; v. 284; p. 908.
- Ship's helm, Signaling the position of a. R. S. O'Neill. No. 1,377,427; May 10; v. 286; p. 257.
- Ship's hull, Tubular. G. V. Montaruli. No. 1,385,790; July 26; v. 286; p. 729.
- Ships, Indicating and attaching device for sunken. J. E. Stoltz. No. 1,384,412; July 12; v. 288; p. 288.
- Ships, Keel-blocks for building. J. M. Leighton. No. 1,397,487; Nov. 15.
- Ship's light. T. Utley. No. 1,364,465; Jan. 4; v. 282; p. 81.
- Ship's light. T. Utley. No. 1,393,857; Oct. 18.
- Ships, Means for mooring. F. W. B. Walton. No. 1,392,668; Oct. 4.
- Ships, Mold for casting the hulls of concrete. J. H. Holmgren. No. 1,383,118; June 28; v. 287; p. 695.
- Ships, Overboard-discharge valve for. H. H. Sidwell. No. 1,377,633; May 10; v. 286; p. 295.
- Ship's port-light and dead-light. B. Mawson and A. Kennedy. No. 1,364,293; Jan. 4; v. 282; p. 49.
- Ship's porthole, scuttle, &c. C. Lauprêtre. No. 1,392,771; Oct. 4.
- Ships, Protecting. L. W. Bates. No. 1,379,241; May 24; v. 286; p. 728.
- Ships, Steering-gear for. H. Brousseau. No. 1,392,394; Oct. 4.
- Ships, Steering-gear for. C. M. Manly. No. 1,385,840; July 26; v. 288; p. 739.
- Ships, System of raising sunken. D. F. McGill. No. 1,393,894; Oct. 18.
- Ships, tanks, and the like, Construction of. A. M. Bourke. No. 1,390,013; Sept. 6; v. 290; p. 91.
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- Ship's ventilator-cover. T. M. Brown. No. 1,379,162; May 24; v. 286; p. 713.
- Ships, Wreck-preventing apparatus for. R. J. Hamilton. No. 1,375,151; Apr. 19; v. 285; p. 447.
- Shipping appliance. F. P. Small. No. 1,385,156; July 19; v. 288; p. 524.
- Shipping-box. G. M. Walker. No. 1,381,258; June 14; v. 287; p. 230.
- Shipping-box, Collapsible. H. D. Bokop. No. 1,373,162; Mar. 29; v. 284; p. 862.
- Shipping cage, Bee. E. B. Ault. No. 1,388,085; Aug. 16; v. 289; p. 544.
- Shipping-car ventilator. J. W. Calhoun. No. 1,383,787; July 5; v. 288; p. 110.
- Shipping-case. H. R. Bliss. No. 1,373,161; Mar. 29; v. 284; p. 862.
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- Shipping-case, Metal folding. G. C. Parker. No. 1,369,704; Feb. 22; v. 283; p. 694.
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- Shipping, packing, and dispensing device, Combination. J. Q. Stephens. No. 1,388,977; Aug. 30; v. 289; p. 832.
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- Shipping-receptacle. B. H. Lee. No. 1,365,834; Jan. 18; v. 282; p. 429.
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- Shirt. J. Y. King. No. 1,400,881; Dec. 20.
- Shirt. J. B. Pearlstien. No. 1,401,725; Dec. 27.
- Shirt. H. H. Reineque. No. 1,383,855; July 5; v. 288; p. 124.
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- Shirt-neckband. C. L. Shader. No. 1,378,825; May 17; v. 286; p. 577.
- Shirt press, Work-. B. W. Brockett. No. 1,387,099; Aug. 9; v. 289; p. 298.
- Shirt with removable bosom. A. Holste. No. 1,399,255; Dec. 6.
- Shirts, Collar-band for. N. Lewis. No. 1,370,600; Mar. 8; v. 284; p. 205.
- Shirts, Cuff or sleeve for. E. Baumblyatt, Jr. No. 1,383,514; July 5; v. 288; p. 53.
- Shirts, Cutting. G. A. Aiken. No. 1,378,164; May 17; v. 286; p. 451.
- Shirts, Neckband for. A. Bernstein. No. 1,375,350; Apr. 19; v. 285; p. 484.
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- Shock-absorber. A. N. Anthes. No. 1,383,592; July 5; v. 288; p. 69.
- Shock-absorber. J. W. Blackledge. No. 1,393,938; Oct. 18.
- Shock-absorber. C. C. Blackmore. No. 1,395,471; Nov. 1.
- Shock-absorber. W. M. Boenning. No. 1,381,699; June 14; v. 287; p. 313.
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- Shock-absorber. G. G. F. Boswell. (Reissue.) No. 15,113; May 31; v. 286; p. 1009.
- Shock-absorber. H. Burrmann. No. 1,372,934; Mar. 29; v. 284; p. 818.
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- Shock-absorber. H. Cross. (Reissue.) No. 15,197; Sept. 20; v. 290; p. 577.
- Shock-absorber. P. J. Cubbison. No. 1,367,866; Feb. 8; v. 283; p. 252.
- Shock-absorber. J. Dahlstrom. No. 1,380,780; June 7; v. 287; p. 87.
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- Shock-absorber. P. Du Ford. No. 1,378,665; May 17; v. 286; p. 546.
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- Shock-absorber. L. F. Fitzgerald. No. 1,383,094; June 28; v. 287; p. 691.
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- Shock-absorber. A. J. Gibbons. No. 1,373,066; Mar. 29; v. 284; p. 843.
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- Shock-absorber. J. P. Goergen and J. G. Ruesch. No. 1,368,429; Feb. 15; v. 283; p. 408.
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 Shock-absorber. M. Ike, C. Owings, C. Butcher, and M. Dawson. No. 1,373,332; Mar. 29; v. 284; p. 896.  
 Shock-absorber. A. J. Kraber. No. 1,396,851; Nov. 15.  
 Shock-absorber. C. H. Kugler. No. 1,389,054; Aug. 30; v. 289; p. 848.  
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 Shock-absorber. C. M. Mohler. No. 1,388,742; Aug. 23; v. 289; p. 731.  
 Shock-absorber. L. H. Oberreich. No. 1,372,825; Mar. 29; v. 284; p. 795.  
 Shock-absorber. L. H. Oberreich. No. 1,385,705; July 26; v. 288; p. 712.  
 Shock-absorber. J. F. O'Connor. No. 1,378,974; May 24; v. 286; p. 677.  
 Shock-absorber. W. B. Redfield. No. 1,395,974; Nov. 1.  
 Shock-absorber. C. F. Rodin. No. 1,389,987; Sept. 6; v. 290; p. 86.  
 Shock-absorber. C. Rudy. No. 1,384,970; July 19; v. 288; p. 485.  
 Shock-absorber. B. F. Seymour. No. 1,366,422; Jan. 25; v. 282; p. 587.  
 Shock-absorber. H. E. Spangler. No. 1,371,123; Mar. 8; v. 284; p. 305.  
 Shock-absorber. J. I. Sumner. No. 1,387,812; Aug. 16; v. 289; p. 492.  
 Shock-absorber. W. Swindowsky. No. 1,370,854; Mar. 8; v. 284; p. 254.  
 Shock-absorber. S. J. Vesely. No. 1,384,545; July 12; v. 288; p. 316.  
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 Shock-absorber. J. Wood. No. 1,391,035; Sept. 20; v. 290; p. 451.  
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 Shock-absorber for automobiles. H. C. Robinson. No. 1,378,279; May 17; v. 286; p. 472.  
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 Shock-absorber for motor-vehicles. A. Howes. No. 1,385,551; July 26; v. 288; p. 680.  
 Shock-absorber for reversing mechanism. F. W. Wappat. No. 1,399,173; Dec. 6.  
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 Shock-absorber for vehicles. F. W. Springer. No. 1,387,081; Aug. 9; v. 289; p. 295.  
 Shock-absorber for vehicles. W. G. Young. No. 1,372,327; Mar. 22; v. 284; p. 658.  
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 Shock-absorber, Pneumatic. C. T. Walter. No. 1,386,818; Aug. 9; v. 289; p. 242.  
 Shock-absorbers, Mounting for. C. J. Ford. No. 1,374,997; Apr. 19; v. 285; p. 416.  
 Shock-absorbers, Vehicle. W. M. Boenning. No. 1,386,759; Aug. 9; v. 289; p. 229.  
 Shock-absorbing and antirattling device, Steering-rod. F. G. Withrow. No. 1,383,895; July 5; v. 288; p. 132.  
 Shock-absorbing bumper. J. Solomon. No. 1,372,839; Mar. 29; v. 284; p. 798.  
 Shock-absorbing device, Vehicle. W. D. Paxton. No. 1,367,668; Feb. 8; v. 283; p. 213.  
 Shock-absorbing mechanism. T. C. Dobbins. No. 1,379,443; May 24; v. 286; p. 766.  
 Shock-absorbing mechanism. S. Munson. No. 1,370,835; Mar. 8; v. 284; p. 251.  
 Shock-absorbing mechanism. E. H. Schmidt. No. 1,368,578; Feb. 15; v. 283; p. 437.  
 Shock-absorbing mechanism. W. E. Symons. No. 1,396,896; Nov. 15.  
 Shock-absorbing mechanism, Friction. W. A. Geiger. No. 1,386,776; Aug. 9; v. 289; p. 232.  
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 Shock-absorbing mechanism, Friction. G. A. Johnson. No. 1,378,868; May 24; v. 286; p. 657.  
 Shock-absorbing mechanism, Friction. B. S. Johnson. No. 1,398,696; Nov. 29.  
 Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,364,511; Jan. 4; v. 282; p. 91.  
 Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,372,717; Mar. 29; v. 284; p. 773.  
 Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,374,671; Apr. 12; v. 285; p. 291.  
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 Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,382,222; June 21; v. 287; p. 470.  
 Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,386,795; Aug. 9; v. 289; p. 237.  
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 Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,398,037; Nov. 22.  
 Shock-absorbing mechanism, Friction. J. F. O'Connor. No. 1,398,705; Nov. 29.  
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 Shock-absorbing transmission system. E. Meitner. No. 1,391,653; Sept. 20; v. 290; p. 576.  
 Shock-diffuser. F. F. Landis. No. 1,397,429; Nov. 15.  
 Shock-forming device. A. H. Palmbush. No. 1,389,779; Sept. 6; v. 290; p. 44.  
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 Shoe. M. S. Hess. No. 1,389,356; Aug. 30; v. 289; p. 909.  
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 Shoe. M. Seiwald. No. 1,388,070; Aug. 16; v. 289; p. 541.  
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- Shoe-fastener. T. Toyama. No. 1,371,334; Mar. 15; v. 284; p. 409.
- Shoe-fastening. W. Zapis. No. 1,384,815; July 19; v. 288; p. 453.
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- Shoe-heel. L. Cuvelier. No. 1,368,902; Feb. 15; v. 283; p. 499.
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- Shoe-holding device. E. F. Sharkoff. No. 1,373,771; Apr. 5; v. 285; p. 75.
- Shoe-holding stand. J. J. Brentano. No. 1,392,393; Oct. 4.
- Shoe-lace. M. E. Traphagen. No. 1,373,687; Apr. 5; v. 285; p. 59.
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- Shoe-polishing device. H. C. Coy. No. 1,383,189; June 28; v. 287; p. 709.
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- Shoe-repairing machinery. W. L. Roach. No. 1,382,013; June 21; v. 287; p. 432.
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- Shoe-retainer. J. A. Drechsler. No. 1,392,628; Oct. 4.
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- Shoe-sewing machine. F. Chateaufneuf. No. 1,377,313; May 10; v. 286; p. 235.
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- Shoe-sole-stitching mechanism. H. Michelsen. No. 1,369,458; Feb. 22; v. 283; p. 645.
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- Shoe-soles, Machine for operating upon. R. F. Knight. No. 1,373,564; Apr. 5; v. 285; p. 36.
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- Shoe-stiffener. H. H. Beckwith and E. E. Cox. No. 1,391,932; Sept. 27; v. 290; p. 706.
- Shoe-stitcher attachment. C. J. Spencer. No. 1,382,866; June 28; v. 287; p. 648.
- Shoe-stitching machines, Knife-protector for. A. M. Wirth. No. 1,387,673; Aug. 16; v. 289; p. 463.
- Shoe-stretcher. J. A. Schulz. No. 1,387,516; Aug. 16; v. 289; p. 432.
- Shoe-tacking machine. C. F. Ziegler. No. 1,386,752; Aug. 9; v. 289; p. 228.
- Shoe-tongues, Means for securing. G. L. Bowers. No. 1,386,985; Aug. 9; v. 289; p. 275.
- Shoe, Traction-. L. E. Slauson. No. 1,393,709; Oct. 11.
- Shoe-upper. B. Behrmann. No. 1,386,228; Aug. 2; v. 289; p. 53.
- Shoe-upper. H. Holden. No. 1,395,277; Nov. 1.
- Shoe-upper and finishing the edges thereof. D. Daniels. No. 1,400,806; Dec. 20.
- Shoe, Ventilated. D. Saudino. No. 1,390,929; Sept. 13; v. 290; p. 367.
- Shoe, Ventilated. R. Voltolini. No. 1,369,590; Feb. 22; v. 283; p. 672.
- Shoe-ventilator. J. A. Wherry. No. 1,364,226; Jan. 4; v. 282; p. 35.
- Shoe, Welt-. C. C. Blake. No. 1,375,999; Apr. 26; v. 285; p. 640.
- Shoes and a shoe made by such method, Manufacturing. I. Rickey. No. 1,394,938; Oct. 25.
- Shoes and boots and on leather articles generally, Composition of matter designed for use on. J. R. Montpetit and J. S. Adamson. No. 1,390,537; Sept. 13; v. 290; p. 288.
- Shoes and boots, Multiple press for the manufacture of. E. G. Dihlmann. No. 1,388,838; Aug. 23; v. 289; p. 749.
- Shoes, Antislipping attachment for. R. O. Bardon. No. 1,399,682; Dec. 6.
- Shoes, boots, or other articles, Fastening for laced. D. Ross. No. 1,368,971; Feb. 15; v. 283; p. 512.
- Shoes, Cleat attachment for football-. J. K. Schwarzer. No. 1,391,346; Sept. 20; v. 290; p. 515.
- Shoes, Foot for contact. W. K. Howe. No. 1,364,879; Jan. 11; v. 282; p. 205.
- Shoes, Heel-grip for. G. Lawler. No. 1,390,568; Sept. 13; v. 290; p. 294.
- Shoes, Ironing. J. E. Groat. No. 1,370,808; Mar. 8; v. 284; p. 246.
- Shoes, Lasting. C. F. Pym. No. 1,368,969; Feb. 15; v. 283; p. 512.
- Shoes, Machine for lasting stitched-down. A. Perri. No. 1,398,528; Nov. 29.
- Shoes, Machine for marking vamps of. C. Augustine. No. 1,391,752; Sept. 27; v. 290; p. 670.
- Shoes, Machine for operating on. E. E. Winkley. No. 1,372,855; Mar. 29; v. 284; p. 801.
- Shoes, Machine for operating upon. B. F. Mayo. No. 1,399,784; Dec. 13.
- Shoes, Machine for pressing the soles of. M. Brock. No. 1,399,742; Dec. 13.
- Shoes, Machine for rough-rounding and lasting stitched down. B. S. La Fleur. No. 1,398,524; Nov. 29.
- Shoes, Machine for turning. J. E. Scott. No. 1,395,741; Nov. 1.
- Shoes, Making. E. C. Beaumont. No. 1,393,486; Oct. 11.
- Shoes, Making. M. Brock. No. 1,376,387; Apr. 26; v. 285; p. 714.
- Shoes, Making. C. E. Conner. No. 1,382,763; June 28; v. 287; p. 628.
- Shoes, Making. K. Engel. No. 1,377,329; May 10; v. 286; p. 238.
- Shoes, Making. J. J. Heys. No. 1,381,921; June 21; v. 287; p. 415.
- Shoes, Making. W. Hubbard. No. 1,401,258; Dec. 27.
- Shoes, Making. J. A. Kelly. No. 1,396,124; Nov. 8.
- Shoes, Making. P. F. W. C. Krippendorf. No. 1,372,885; Mar. 29; v. 284; p. 807.
- Shoes, Making. R. F. McFeely. No. 1,389,678; Sept. 6; v. 290; p. 24.
- Shoes, Making. J. H. Pope. No. 1,386,654; Aug. 9; v. 289; p. 207.



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- Shoes, Making. J. G. Rexicker. No. 1,370,997; Mar. 8; v. 284; p. 281.
- Shoes, Making low-cut. S. A. Eddins and W. H. Baynard. No. 1,386,850; Aug. 9; v. 289; p. 248.
- Shoes, Making molded-counter turn-. F. E. Toothaker. No. 1,368,373; Feb. 15; v. 283; p. 396.
- Shoes, Making turn-. G. Ferguson. No. 1,381,910; June 21; v. 287; p. 413.
- Shoes, Manufacture of. L. J. Bazzoni. No. 1,366,898; Feb. 1; v. 283; p. 3.
- Shoes, Manufacture of turn-. A. Bates. No. 1,366,896; Feb. 1; v. 283; p. 3.
- Shoes, method of and apparatus for making. C. H. Oakley. No. 1,365,267; Jan. 11; v. 282; p. 279.
- Shoes, Protector for the tread members of. D. Marinsky. No. 1,375,101; Apr. 19; v. 285; p. 437.
- Shoes, Shank-stiffener for. M. Cangen. No. 1,394,884; Oct. 25.
- Shoes, Shaping-machine for. M. Brock. No. 1,376,388; Apr. 26; v. 285; p. 714.
- Shoes, Size and style stamp for insoles and outsoles of. W. E. Edwards and H. O. Stalker. No. 1,391,175; Sept. 20; v. 290; p. 479.
- Shoes, Spring insoles for. S. R. Rogers. No. 1,399,153; Dec. 6.
- Shoes, Substitute material for making box-toes for. A. C. Denning. (Reissue.) No. 15,235; Nov. 29.
- Shoes, Supplemental waterproof and non-slipable tapsole for. M. Snider. No. 1,364,528; Jan. 4; v. 282; p. 94.
- Shoes, Support for contact-. C. H. Quarles. No. 1,391,502; Sept. 20; v. 290; p. 546.
- Shoes, Tie attachment for. M. Van Deusen. No. 1,381,950; June 21; v. 287; p. 418.
- Shoes, Tongue and top reinforcement for. L. L. Bean. No. 1,373,399; Apr. 5; v. 285; p. 4.
- Shoes, Ventilator for. D. M. O'Brien. No. 1,392,350; Oct. 4.
- Shoemaker's jack. J. Galka. No. 1,370,205; Mar. 1; v. 284; p. 85.
- Shoemaker's jack. G. and O. Laporte. No. 1,384,903; July 19; v. 288; p. 471.
- Shoemaker's jack. W. Piskuran. No. 1,383,421; July 5; v. 288; p. 34.
- Shoemaker's tool. W. Berger and C. Blaschke. No. 1,401,665; Dec. 27.
- Shoemaking. L. H. Buek. No. 1,365,765; Jan. 18; v. 282; p. 415.
- Shoestring attachment or fastening device. P. Brewton. No. 1,368,690; Feb. 15; v. 283; p. 459.
- Shoestring-holder. C. B. Meredith. No. 1,371,637; Mar. 15; v. 284; p. 469.
- Shoestring-tip. A. C. Ladd. No. 1,378,688; May 17; v. 286; p. 551.
- Shop-dolly. T. H. Jacob. No. 1,370,112; Mar. 1; v. 284; p. 67.
- Shopping-bag. W. F. Lawrence. No. 1,379,829; May 31; v. 286; p. 913.
- Shore. O. L. Wallace. No. 1,400,109; Dec. 13.
- Shore, Adjustable. G. W. Meyer and C. A. Roos. No. 1,395,649; Nov. 1.
- Shore, Adjustable. H. W. Roos. No. 1,368,353; Feb. 15; v. 283; p. 393.
- Shorer. F. H. G. Brandt. No. 1,372,005; Mar. 22; v. 284; p. 596.
- Short-circuiting device. A. F. Welch. No. 1,381,044; June 7; v. 287; p. 139.
- Short-circuiting mechanism. G. H. Leland. No. 1,385,838; July 26; v. 288; p. 739.
- Shortening composition and making same. G. R. Chatfield. No. 1,368,022; Feb. 8; v. 283; p. 280.
- Shortening material, Apparatus for manufacturing. V. Hechler. No. 1,400,216; Dec. 13.
- Shot-firer, Safety. C. F. Oaka. No. 1,377,915; May 10; v. 286; p. 351.
- Shot-firing device. J. A. MacDonald. No. 1,377,086; May 3; v. 286; p. 135.
- Shot-registering mechanism. C. Henderson. No. 1,367,257; Feb. 1; v. 283; p. 75.
- Shoulder and body brace. R. E. Mason. No. 1,386,067; Aug. 2; v. 289; p. 21.
- Shoulder-brace and trousers-supporter, Combined. M. Berres. No. 1,377,387; May 10; v. 286; p. 249.
- Shovel. *See—*  
Coke-shovel. Sink-refuse shovel.  
Power-shovel.
- Shovel. O. Paradis. No. 1,372,722; Mar. 29; v. 284; p. 774.
- Shovel-digger. L. P. Landrum. No. 1,371,494; Mar. 15; v. 284; p. 441.
- Shovel, Excavating. J. W. Page. No. 1,379,311; May 24; v. 286; p. 742.
- Shovel for use in mines to load coal and ore into cars. Power-. C. S. Corrigan. No. 1,389,421; Aug. 30; v. 289; p. 921.
- Shovel, Mine-car-loading. C. H. Funkey. No. 1,390,695; Sept. 13; v. 290; p. 320.
- Shovel-operating machine. T. W. Thomas. No. 1,386,911; Aug. 9; v. 289; p. 261.
- Shovel or excavating-machine, Power-. C. Lotte. No. 1,396,375; Nov. 8.
- Shovel, Power-. C. S. Johnson. No. 1,391,737; Sept. 27; v. 290; p. 667.
- Shovel, Power-. F. R. Sills. No. 1,394,230; Oct. 18.
- Shovel, spade, &c. A. B. Coleman. No. 1,374,061; Apr. 5; v. 285; p. 132.
- Shovel, Steam-. J. Fletcher. No. 1,380,051; May 31; v. 286; p. 955.
- Shovel-tooth. W. F. McMonegal. No. 1,384,701; July 12; v. 288; p. 350.
- Shovel, Trench digging and cleaning. C. Boslek. No. 1,382,057; June 21; v. 287; p. 440.
- Shovels, Dipper-tooth designed for use on. S. F. MacDougald and E. E. Bohan. No. 1,401,804; Dec. 27.
- Shovels, Screening attachment for power-. H. Welgen. No. 1,376,595; May 3; v. 286; p. 41.
- Shovels, Section-carrier for steam-. W. N. Rowe. No. 1,374,527; Apr. 12; v. 285; p. 264.
- Shovels, spades, and the like, Manufacture of. R. A. Hadfield. No. 1,375,453; Apr. 19; v. 285; p. 504.
- Shoveling and loading machine. J. C. Brackett. No. 1,371,293; Mar. 15; v. 284; p. 401.
- Shoveling and loading machine. J. C. Brackett. No. 1,371,344; Mar. 15; v. 284; p. 411.
- Shoveling and loading machine. J. C. Brackett. No. 1,371,345; Mar. 15; v. 284; p. 411.
- Shoveling-machine. S. J. Kruly. No. 1,382,001; June 21; v. 287; p. 430.
- Shoveling-machine. H. McDermott. No. 1,392,069; Sept. 27; v. 290; p. 734.
- Shoveling-machine. W. Whaley. No. 1,379,428; May 24; v. 286; p. 763.
- Show-case. W. A. Fifer. No. 1,369,091; Feb. 22; v. 283; p. 575.
- Show-case. W. P. Himes. No. 1,376,203; Apr. 26; v. 285; p. 679.
- Show-windows, Ventilator for. S. Meyer. No. 1,381,326; June 14; v. 287; p. 242.
- Showcase. F. G. Maddison. No. 1,371,504; Mar. 15; v. 284; p. 443.
- Showcase and bracket. H. G. Michaelson. No. 1,371,256; Mar. 15; v. 284; p. 393.
- Showcase and counter-guard construction. C. Ziefel and K. J. Gloekler. No. 1,379,554; May 24; v. 286; p. 787.
- Showcase or screen. W. B. Praytor. No. 1,389,898; Sept. 6; v. 290; p. 69.
- Showcase-reflector. L. Erikson. No. 1,380,368; June 7; v. 287; p. 9.
- Shower-bath apparatus. C. J. Brockman. No. 1,368,237; Feb. 15; v. 283; p. 270.
- Shower-bath apparatus, Portable. L. A. Trial. No. 1,398,208; Nov. 22.
- Shower-bath device. G. De Bellis. No. 1,383,987; July 5; v. 288; p. 151.
- Shower-bath fixture, Portable. G. J. Koehler. No. 1,366,734; Jan. 25; v. 282; p. 650.
- Shower-pipe. A. E. Binns. No. 1,396,092; Nov. 8.
- Shrimp-deheading machine. L. G. Hirth and A. Matton. No. 1,367,546; Feb. 8; v. 283; p. 190.
- Shunt, Automatic. W. C. Neahr. No. 1,347,267; May 10; v. 286; p. 225.
- Shutter. G. I. Vail. No. 1,394,656; Oct. 25.
- Shutter and interlocking slat therefor, Protective movable. J. M. Cornell. No. 1,367,240; Feb. 1; v. 283; p. 71.
- Shutter-fastener. J. Y. Van Blarcom. No. 1,386,291; Aug. 2; v. 289; p. 65.
- Shutter, Fire-resisting. E. H. McCloud. No. 1,376,820; May 3; v. 286; p. 83.
- Shutter, Folding. M. D. Lafuente. No. 1,370,324; Mar. 1; v. 284; p. 108.
- Shutter-frame. J. M. Armstrong. No. 1,373,584; Apr. 5; v. 285; p. 40.
- Shutter-operating device. G. A. Roberds. No. 1,381,241; June 14; v. 287; p. 227.
- Shutter, Push-button-controlled. G. C. Hosch. No. 1,396,577; Nov. 8.
- Shuttle. W. F. Comisky. No. 1,378,837; May 24; v. 286; p. 652.
- Shuttle. J. B. Daudelin. No. 1,370,416; Mar. 1; v. 284; p. 125.
- Shuttle. S. C. Johnston. No. 1,366,807; Jan. 25; v. 282; p. 664.
- Shuttle. J. Northrup. No. 1,371,389; Mar. 15; v. 284; p. 420.
- Shuttle. R. Reiner. No. 1,383,484; July 5; v. 288; p. 47.
- Shuttle. J. C. Shambow. No. 1,368,975; Feb. 15; v. 283; p. 513.
- Shuttle. I. Snow. No. 1,369,306; Feb. 22; v. 283; p. 616.
- Shuttle. I. Snow. No. 1,375,187; Apr. 19; v. 285; p. 453.
- Shuttle. C. S. Wright. No. 1,394,878; Oct. 25.
- Shuttle, Bobbin-. J. B. Bentley. No. 1,392,042; Sept. 27; v. 290; p. 729.
- Shuttle-eye. A. J. Brouillette. No. 1,396,555; Nov. 8.
- Shuttle-eye. J. C. Shambow. No. 1,399,893; Dec. 13.
- Shuttle-guard. P. O. Robertson. No. 1,384,807; July 19; v. 288; p. 452.
- Shuttle-mover. F. J. Baume. No. 1,373,705; Apr. 5; v. 285; p. 63.
- Shuttle-placer. E. H. Ryon. No. 1,375,732; Apr. 26; v. 285; p. 589.
- Shuttle-positioner. O. Legendre. No. 1,398,699; Nov. 29.
- Shuttle, Tatting. M. E. Dean. No. 1,401,053; Dec. 20.



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- Shuttle tension. G. D. Wilms and J. H. Steiger. No. 1,400,397; Dec. 13.
- Shuttle-throwing device. H. Lindsay. No. 1,380,224; May 31; v. 286; p. 987.
- Shuttles, Bobbin-holder for. S. R. Liberty. No. 1,393,145; Oct. 11.
- Sickle. J. Ogden. No. 1,379,205; May 24; v. 286; p. 721.
- Sickle-bars, Runner for. H. Franzen. No. 1,367,367; Feb. 1; v. 283; p. 97.
- Sickle-bars, Runner for. H. Franzen. No. 1,391,181; Sept. 20; v. 290; p. 480.
- Sickle or knife. F. Bergman. No. 1,390,753; Sept. 13; v. 290; p. 332.
- Side-delivery rotary rake. H. Moschel. No. 1,371,511; Mar. 15; v. 284; p. 445.
- Side-delivery rake. J. Dain. No. 1,399,197; Dec. 6.
- Side frame. H. E. Doerr. No. 1,378,221; May 17; v. 286; p. 461.
- Side frame. G. G. Floyd. No. 1,379,752; May 31; v. 286; p. 898.
- Side frame and journal-box. J. A. Lamont. No. 1,377,700; May 10; v. 286; p. 308.
- Side-frame arrangement. G. G. Floyd. No. 1,381,113; June 14; v. 287; p. 204.
- Side-frame construction. G. G. Floyd. No. 1,378,849; May 24; v. 286; p. 654.
- Sidewalk, Moving. A. Peleskey. No. 1,385,584; July 26; v. 288; p. 687.
- Sieve, Grain-. A. Lockard. No. 1,381,718; June 14; v. 287; p. 317.
- Sieve, Grain-. D. F. Pehrsson. No. 1,387,306; Aug. 9; v. 289; p. 338.
- Sifter. A. W. Flannigan. No. 1,384,441; July 12; v. 288; p. 295.
- Sifter and shovel, Combined. H. H. Beach. No. 1,398,666; Nov. 29.
- Sifter, Ash-. M. Hutchinson. No. 1,383,812; July 5; v. 288; p. 115.
- Sifter, Ash-. E. Nicholas. No. 1,380,832; June 7; v. 287; p. 97.
- Sifter, Ash-. H. J. Schaffer. No. 1,378,623; May 17; v. 286; p. 538.
- Sifter, Ash-. J. Styrbinski. No. 1,371,129; Mar. 8; v. 284; p. 306.
- Sifter, Cinder-. P. C. and J. S. Forrest. No. 1,365,926; Jan. 11; v. 282; p. 213.
- Sifter, Flour-. J. Brewer. No. 1,390,334; Sept. 13; v. 290; p. 247.
- Sifter, Flour-. J. H. Dean. No. 1,395,096; Oct. 25.
- Sifter, Flour-. J. H. Dean. No. 1,401,142; Dec. 27.
- Sifter, Flour-. R. T. Earle. No. 1,398,367; Nov. 29.
- Sifter, Flour-. E. Gase. No. 1,379,550; May 24; v. 286; p. 786.
- Sifter, Flour-. D. Schneider. No. 1,382,937; June 28; v. 287; p. 661.
- Sifter, Multiple plan-. B. Neal. No. 1,368,047; Feb. 8; v. 283; p. 284.
- Sifter, Multiple plan. B. Neal. No. 1,368,826; Feb. 15; v. 283; p. 485.
- Sifters, Closure-fastener for ash-. S. Zyskowski. No. 1,373,851; Apr. 5; v. 285; p. 92.
- Sifting-top. L. R. Eddy. No. 1,373,120; Mar. 29; v. 284; p. 853.
- Sighting instruments, Stabilizing apparatus for. V. H. Godillon. No. 1,393,437; Oct. 11.
- Sign. W. Bach. No. 1,393,067; Oct. 11.
- Sign. J. M. Brooks. No. 1,373,167; Mar. 29; v. 284; p. 863.
- Sign. J. P. Fox. No. 1,381,983; June 21; v. 287; p. 427.
- Sign. A. W. Margleth. No. 1,394,853; Oct. 25.
- Sign. H. H. Marriott. No. 1,377,904; May 10; v. 286; p. 349.
- Sign. H. H. Marriott. No. 1,395,853; Nov. 1.
- Sign. A. D. McKellar. No. 1,384,911; July 19; v. 288; p. 472.
- Sign. N. Mollet. No. 1,387,933; Aug. 16; v. 289; p. 515.
- Sign. A. C. Nowlin. No. 1,382,311; June 21; v. 287; p. 487.
- Sign. G. R. Pyper. No. 1,382,225; June 21; v. 287; p. 471.
- Sign. G. R. Pyper. No. 1,382,226; June 21; v. 287; p. 471.
- Sign. G. R. Pyper. No. 1,382,227; June 21; v. 287; p. 471.
- Sign. W. T. Wheatley. No. 1,395,621; Nov. 1.
- Sign, Advertising-. R. M. Craig. No. 1,374,282; Apr. 12; v. 285; p. 216.
- Sign, Advertising-. E. O. La Roche. No. 1,400,081; Dec. 13.
- Sign, Advertising-. A. Schlosser. No. 1,396,467; Nov.
- Sign, Animated. G. R. Pyper. No. 1,382,228; June 21; v. 287; p. 471.
- Sign, Animated. G. R. Pyper. No. 1,382,229; June 21; v. 287; p. 471.
- Sign, Animated. G. R. Pyper. No. 1,382,230; June 21; v. 287; p. 472.
- Sign, Animated. G. R. Pyper. No. 1,382,231; June 21; v. 287; p. 472.
- Sign, Animated. G. R. Pyper. No. 1,382,232; June 21; v. 287; p. 472.
- Sign, Animated. G. R. Pyper. No. 1,382,233; June 21; v. 287; p. 472.
- Sign, Changeable. H. Jaquette. No. 1,400,438; Dec. 13.
- Sign, Changeable advertising-. W. A. Zeldler and M. L. Ferentz. No. 1,380,170; May 31; v. 286; p. 978.
- Sign device, Change-. R. A. Willison and C. N. Esberg. No. 1,366,548; Jan. 25; v. 282; p. 613.
- Sign device, Moving-. G. E. McMaster. No. 1,365,520; Jan. 11; v. 282; p. 328.
- Sign, Display-. D. W. Huston. No. 1,377,889; May 10; v. 286; p. 346.
- Sign, Electric. M. J. Carboni. No. 1,393,008; Oct. 11.
- Sign, Electric. K. W. Daughdrill. No. 1,401,886; Dec. 27.
- Sign, Electric. J. E. Long. No. 1,394,565; Oct. 25.
- Sign, Electric. D. K. Wade. No. 1,397,995; Nov. 22.
- Sign-exhibitor, Rotary. J. Gilbert and W. E. Perkins. No. 1,369,170; Feb. 22; v. 283; p. 590.
- Sign, facies, &c., Illuminated. H. W. Twyman. No. 1,385,764; July 26; v. 288; p. 724.
- Sign figure, Advertising-. W. B. Mitchell. No. 1,401,807; Dec. 27.
- Sign-holder. M. Metzger. No. 1,400,564; Dec. 20.
- Sign-holder. J. Taussig. No. 1,384,106; July 12; v. 288; p. 225.
- Sign, Illuminated. J. H. Kelly. No. 1,390,561; Sept. 13; v. 290; p. 293.
- Sign, Illuminated. I. J. Kusel. No. 1,400,296; Dec. 13.
- Sign, Illuminated. F. M. Vansickle. No. 1,389,799; Sept. 6; v. 290; p. 48.
- Sign, Illuminated reflecting-. C. W. Rainke. No. 1,390,459; Sept. 13; v. 290; p. 271.
- Sign-letter. P. O. Grove. No. 1,392,639; Oct. 4.
- Sign luminous by reflection. E. Bertron. No. 1,400,855; Dec. 20.
- Sign, Moving. J. Aisenberg. No. 1,387,635; Aug. 16; v. 289; p. 456.
- Sign, Radiant annunciator-. R. N. Chubb. No. 1,371,470; Mar. 15; v. 284; p. 437.
- Sign, Store-. B. H. Scharf. No. 1,369,550; Feb. 22; v. 283; p. 664.
- Signs, Means and method for making. C. P. Salgee. No. 1,390,166; Sept. 6; v. 290; p. 122.
- Signboard. L. R. Long. No. 1,364,635; Jan. 4; v. 282; p. 113.
- Signboards, Headplate for. T. Cusack. No. 1,384,743; July 19; v. 288; p. 438.
- Signpost. J. J. Moore. No. 1,391,001; Sept. 20; v. 290; p. 444.
- Signal. See—
- Alarm-signal.
  - Audible signal.
  - Audible speed-signal.
  - Auto-signal.
  - Auto direction-signal.
  - Auto warning-signal.
  - Automobile-signal.
  - Automobile caution-signal.
  - Automobile direction-signal.
  - Automobile stop-signal.
  - Automobile-theft signal.
  - Automobile traffic-signal.
  - Autovehicle-signal.
  - Car-signal.
  - Car-door safety-signal.
  - Crossing-signal.
  - Danger-signal.
  - Detector-signal.
  - Direction-signal.
  - Direction-indicating signal.
  - Electric signal.
  - Fishing-signal.
  - Highway-crossing signal.
  - Ice-box dripping-pan signal.
  - Indicating-signal.
  - Mail-box signal.
  - Motor-car signal.
  - Railway-signal.
  - Railway-crossing signal.
  - Railway safety-signal.
  - Road-vehicle signal.
  - Safety direction-signal.
  - Steam-signal.
  - Steam-boiler low-water signal.
  - Street-car signal.
  - Street-traffic signal.
  - Tank-signal.
  - Tire-signal.
  - Track-signal.
  - Traffic-signal.
  - Train-signal.
  - Train-stop signal.
  - Vehicle-signal.
  - Vehicle direction-signal.
  - Warning-signal.
- Signal. J. E. Ball. No. 1,373,936; Apr. 5; v. 285; p. 109.
- Signal. G. V. Burris. No. 1,374,427; Apr. 12; v. 285; p. 244.
- Signal. T. B. Harris. No. 1,371,971; Mar. 15; v. 284; p. 532.
- Signal. A. W. Johnson. No. 1,380,969; June 7; v. 287; p. 124.
- Signal. J. P. Kelley. No. 1,368,400; Feb. 15; v. 283; p. 401.
- Signal. G. R. Marsico. No. 1,393,896; Oct. 18.
- Signal. G. R. Marsico. No. 1,393,897; Oct. 18.
- Signal. G. R. Marsico. No. 1,393,898; Oct. 18.
- Signal. G. R. Marsico. No. 1,393,899; Oct. 18.
- Signal. L. T. Penny. No. 1,377,520; May 10; v. 286; p. 274.
- Signal. R. F. Stewart. No. 1,371,127; Mar. 8; v. 284; p. 306.
- Signal. J. W. Toliver. No. 1,369,576; Feb. 22; v. 283; p. 669.
- Signal. H. L. Weber. No. 1,365,360; Jan. 11; v. 282; p. 297.
- Signal and control apparatus, Long-distance. W. Ake-mann. No. 1,370,257; Mar. 1; v. 284; p. 96.
- Signal apparatus. R. P. Stephens. No. 1,394,950; Oct. 25.
- Signal attachment for air-brake feed-valves. E. V. Lambeth. No. 1,380,220; May 31; v. 286; p. 987.
- Signal control. W. E. Hart. No. 1,389,138; Aug. 30; v. 289; p. 865.
- Signal-control mechanism. W. E. Possinger and G. T. Cunningham. No. 1,395,767; Nov. 1.
- Signal-controlling device. G. M. Dowe. No. 1,395,562; Nov. 1.
- Signal device. J. W. Michael. No. 1,378,367; May 17; v. 286; p. 488.



- Signal device. W. Roush. No. 1,372,313; Mar. 22; v. 284; p. 655.
- Signal device or indicator. S. S. and M. E. Johnson. No. 1,381,561; June 14; v. 287; p. 287.
- Signal-gate, Electrical. C. W. Packwood. No. 1,366,131; Jan. 18; v. 282; p. 487.
- Signal mechanism. L. A. Mapel. No. 1,388,278; Aug. 23; v. 289; p. 640.
- Signal-post, Tilttable. B. H. Mann. No. 1,370,697; Mar. 8; v. 284; p. 224.
- Signal system. D. J. McCarthy. No. 1,389,061; Aug. 30; v. 289; p. 850.
- Signal system. A. E. Meyer. No. 1,375,059; Apr. 19; v. 285; p. 429.
- Signal system. R. E. Sagle. No. 1,395,208; Oct. 25.
- Signal system, Block-. F. Grunig. No. 1,392,254; Sept. 27; v. 290; p. 771.
- Signal system, Directionally-controlled. R. J. Hewett. No. 1,380,145; May 31; v. 286; p. 973.
- Signal system, Watchman's tour. C. C. Johnson. No. 1,394,841; Oct. 25.
- Signal systems, Recording device for. P. P. Dean. No. 1,400,270; Dec. 13.
- Signal-testing apparatus, Busy-. J. F. Toomey. No. 1,372,050; Mar. 22; v. 284; p. 604.
- Signals and other devices, Operating mechanism for. A. C. Wittig. No. 1,290,662; Sept. 13; v. 290; p. 314.
- Signals, Exhibitor for. W. L. Beach. No. 1,391,361; Sept. 20; v. 290; p. 517.
- Signals, Manual controlling means for vehicle. E. G. Balch. No. 1,368,095; Feb. 8; v. 283; p. 294.
- Signaling. J. Mills. No. 1,385,091; July 19; v. 288; p. 511.
- Signaling and telephone system. C. W. Keckler. No. 1,387,270; Aug. 9; v. 289; p. 330.
- Signaling apparatus. S. Oulianine. No. 1,377,521; May 10; v. 286; p. 274.
- Signaling appliance, Automobile. A. Fujiwara. No. 1,372,415; Mar. 22; v. 284; p. 674.
- Signaling-circuit. K. S. Johnson. No. 1,396,760; Nov. 15.
- Signaling device. W. V. Bergen. No. 1,399,923; Dec. 13.
- Signaling device. J. Butera and G. Sorce. No. 1,392,048; Sept. 27; v. 290; p. 730.
- Signaling device. W. H. Carpenter. No. 1,391,243; Sept. 20; v. 290; p. 494.
- Signaling device. I. M. Cole and B. McKinney. No. 1,378,584; May 17; v. 286; p. 530.
- Signaling device. S. M. Dodson and V. H. Coates. No. 1,368,391; Feb. 15; v. 283; p. 400.
- Signaling device. J. A. Dyblie. No. 1,396,169; Nov. 8.
- Signaling device. C. L. Goodrum. No. 1,383,802; July 5; v. 288; p. 113.
- Signaling device. R. M. Hopkins. No. 1,387,399; Aug. 9; v. 289; p. 357.
- Signaling device. W. H. Johnson. No. 1,378,237; May 17; v. 286; p. 464.
- Signaling device. D. C. Miller. No. 1,396,136; Nov. 8.
- Signaling device. J. K. Mochizuki. No. 1,368,644; Feb. 15; v. 283; p. 449.
- Signaling device. Z. E. Morton. No. 1,368,824; Feb. 15; v. 283; p. 484.
- Signaling device. A. T. Palmer. No. 1,388,369; Aug. 23; v. 289; p. 659.
- Signaling device. A. Ricigliano. No. 1,388,060; Aug. 16; v. 289; p. 539.
- Signaling device. S. Slayton. No. 1,370,229; Mar. 1; v. 284; p. 90.
- Signaling device. H. Vanderbeck. No. 1,377,161; May 3; v. 286; p. 149.
- Signaling device. I. B. Walker. No. 1,375,806; Apr. 26; v. 285; p. 602.
- Signaling device. B. B. West. No. 1,364,536; Jan. 4; v. 282; p. 95.
- Signaling device. H. M. Williams. No. 1,376,127; Apr. 26; v. 285; p. 665.
- Signaling device. W. S. Woodward. No. 1,368,677; Feb. 15; v. 283; p. 456.
- Signaling device. J. A. Wotton. No. 1,378,990; May 24; v. 286; p. 681.
- Signaling device, Direction-. E. H. Hebern. No. 1,374,450; Apr. 12; v. 285; p. 249.
- Signaling device, Mileage-period-. C. S. Burton. No. 1,395,256; Nov. 1.
- Signaling device, Sound. L. Chollet. No. 1,391,367; Sept. 20; v. 290; p. 519.
- Signaling device, Street. E. Cadeddu. No. 1,372,401; Mar. 22; v. 284; p. 672.
- Signaling devices, Means for operating. J. A. Keesey. No. 1,390,040; Sept. 6; v. 290; p. 97.
- Signaling-generator. O. E. Hill. No. 1,396,750; Nov. 15.
- Signaling mechanism. F. Steegers y Torres and A. Florido y Ortiz. No. 1,365,208; Jan. 11; v. 282; p. 268.
- Signaling, Method and apparatus for duplex cable-. L. Cohen. No. 1,371,471; Mar. 15; v. 284; p. 437.
- Signaling method and system. E. H. Colpitts. No. 1,375,675; Apr. 26; v. 285; p. 579.
- Signaling or indicating apparatus. P. H. Waller. No. 1,390,001; Sept. 6; v. 290; p. 89.
- Signaling, Secret. R. H. Wilson. No. 1,395,378; Nov. 1.
- Signaling system. G. F. Atwood. No. 1,367,113; Feb. 1; v. 283; p. 46.
- Signaling system. B. L. Bobroff. No. 1,367,583; Feb. 8; v. 283; p. 197.
- Signaling system. B. L. Bobroff. No. 1,392,293; Oct. 4.
- Signaling system. T. W. Case. No. 1,369,781; Mar. 1; v. 284; p. 6.
- Signaling system. C. S. Demarest and J. Davidson, Jr. No. 1,400,732; Dec. 20.
- Signaling system. H. C. Egerton. No. 1,400,039; Dec. 13.
- Signaling system. J. C. Field. No. 1,367,774; Feb. 8; v. 283; p. 234.
- Signaling system. J. C. Field. No. 1,369,019; Feb. 22; v. 283; p. 561.
- Signaling system. F. G. Gardner. No. 1,380,374; June 7; v. 287; p. 10.
- Signaling system. B. B. Grace. No. 1,400,050; Dec. 13.
- Signaling system. B. P. Hamilton. No. 1,366,650; Jan. 25; v. 282; p. 634.
- Signaling system. C. W. Keckler. No. 1,367,147; Feb. 1; v. 283; p. 53.
- Signaling system. C. V. Logwood. No. 1,397,432; Nov. 15.
- Signaling system. L. A. Mortimer. No. 1,384,398; July 12; v. 288; p. 286.
- Signaling system. J. C. R. Palmer. No. 1,386,725; Aug. 9; v. 289; p. 222.
- Signaling system. H. Pfannenstiehl. No. 1,366,416; Jan. 25; v. 282; p. 436.
- Signaling system. H. E. Shreeve. No. 1,378,982; May 24; v. 286; p. 679.
- Signaling system. S. M. Thomas. No. 1,369,146; Feb. 22; v. 283; p. 586.
- Signaling system. W. C. White. No. 1,394,056; Oct. 18.
- Signaling system. D. F. Whiting. No. 1,378,392; May 17; v. 286; p. 493.
- Signaling system. R. S. Wilbur. No. 1,364,969; Jan. 11; v. 282; p. 222.
- Signaling system. R. S. Wilbur. No. 1,386,748; Aug. 9; v. 289; p. 227.
- Signaling system, Alternating-current. R. D. Parker and B. P. Hamilton. No. 1,383,750; July 5; v. 288; p. 102.
- Signaling system, Composite. H. S. Osborne. No. 1,374,220; Apr. 12; v. 285; p. 204.
- Signaling system, High-capacity selective. J. C. Field. No. 1,371,748; Mar. 15; v. 284; p. 490.
- Signaling system, Selective. J. C. Field. No. 1,378,943; May 24; v. 286; p. 672.
- Signaling system, Selective. G. K. Thompson. No. 1,398,287; Nov. 29.
- Signaling system, Supervisory. R. M. Hopkins. No. 1,395,826; Nov. 1.
- Signaling systems, Means for short-circuiting block-. S. B. Rice. No. 1,377,439; May 10; v. 286; p. 260.
- Signature-collecting mechanism. J. C. Theberath. No. 1,393,924; Oct. 18.
- Signature-gathering machine. C. Gltzendanner. No. 1,380,293; May 31; v. 286; p. 1000.
- Silencer. R. J. MacKenzie and L. L. Haas. (Relssue.) No. 1,504,9; Feb. 22; v. 283; p. 708.
- Silica, Method and apparatus for washing and treating. R. H. Moore. No. 1,366,582; Jan. 25; v. 282; p. 620.
- Silicates, Manufacture of aluminum compounds from. V. M. Goldschmidt. No. 1,380,552; June 7; v. 287; p. 43.
- Silicates, Treating potash-bearing. W. Glaeser. No. 1,379,914; May 31; v. 286; p. 929.
- Silicon carbide and making same. H. E. Schabacker. No. 1,381,346; June 14; v. 287; p. 246.
- Silicon sheets and plates, Making high-. A. Pinkerton. No. 1,396,052; Nov. 8.
- Silicon-steel sheets, Producing. V. B. Browne. No. 1,393,880; Oct. 18.
- Silk, Apparatus employed in the manufacture of artificial. J. Clayton. No. 1,366,163; Jan. 18; v. 282; p. 493.
- Silk, Apparatus for spinning artificial. J. C. Prims. No. 1,371,113; Mar. 8; v. 284; p. 303.
- Silk, Artificial. R. D. Lance. No. 1,398,525; Nov. 29.
- Silk, Machine for spinning artificial. E. Rittenhouse. No. 1,367,893; Feb. 8; v. 283; p. 256.
- Silk, Manufacture of artificial. E. Bronnert. No. 1,387,882; Aug. 16; v. 289; p. 505.
- Silk, Manufacture of artificial. E. Bronnert. No. 1,393,197; Oct. 11.
- Silk, Manufacture of artificial. E. Bronnert. No. 1,393,199; Oct. 11.
- Silk, Manufacture of artificial viscose. E. Bronnert. No. 1,374,718; Apr. 12; v. 285; p. 300.
- Silk, Manufacture of viscose. E. Bronnert. No. 1,376,672; May 3; v. 286; p. 55.
- Silk, Manufacture of viscose. E. Bronnert. No. 1,393,198; Oct. 11.
- Silk, Method and means of producing artificial. I. Kiltsee. No. 1,389,517; Aug. 30; v. 289; p. 940.
- Silk, Process of and apparatus for the spinning of artificial. J. Clayton. No. 1,366,162; Jan. 18; v. 282; p. 493.
- Silk, Recovering salts formed in the manufacture of artificial. E. Bronnert. No. 1,376,671; May 3; v. 286; p. 54.
- Silk-throwing machine. P. H. Bonner. No. 1,390,081; Sept. 6; v. 290; p. 106.
- Silk yarn, &c., in treating-machines, Support for hanks of. J. A. Dischinger. No. 1,384,052; July 12; v. 288; p. 214.



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- Sill for metal window-frames. I. H. Elliott. No. 1,382,719; June 28; v. 287; p. 620.
- Silo. V. S. Bauer. No. 1,387,751; Aug. 16; v. 289; p. 479.
- Silo. T. F. Ellis. No. 1,399,546; Dec. 6.
- Silo. E. F. Schlichter. No. 1,367,329; Feb. 1; v. 283; p. 89.
- Silo. E. H. Singers and R. Lofland. No. 1,372,837; Mar. 29; v. 284; p. 797.
- Silo. G. P. Thompson. No. 1,366,974; Feb. 1; v. 283; p. 19.
- Silo and ensilage-feeding structure. L. D. Hart. No. 1,375,961; Apr. 26; v. 285; p. 632.
- Silo-door-fastening device. F. J. Van Cott. No. 1,400,250; Dec. 13.
- Silo-hoop tightener. W. Zulch. No. 1,388,012; Aug. 16; v. 289; p. 530.
- Silo, Masonry. H. F. Stinkraus. No. 1,383,166; June 28; v. 287; p. 705.
- Silo or filling-trunk for powdered or granular matter. K. Lüft. No. 1,385,254; July 19; v. 288; p. 544.
- Silo-press. F. M. C. Usher. No. 1,367,900; Feb. 8; v. 283; p. 257.
- Silo-reinforcing-rod anchor. G. P. Pierce. No. 1,368,653; Feb. 15; v. 283; p. 451.
- Silo-scaffold. J. Myers. No. 1,380,074; May 31; v. 286; p. 959.
- Silo-stave. C. Dale. No. 1,370,415; Mar. 1; v. 284; p. 125.
- Silo-stave. Ventilated. H. B. Jones. No. 1,390,994; Sept. 20; v. 290; p. 443.
- Silo structure. F. A. Stafford. No. 1,381,894; June 14; v. 287; p. 350.
- Silo structure and anchoring system therefor. F. J. Van Cott. No. 1,400,251; Dec. 13.
- Silo-trap-door construction. H. Wadsworth. No. 1,377,036; May 3; v. 286; p. 125.
- Silo-truing device. J. A. Drew. No. 1,399,717; Dec. 6.
- Silos. Hanger apparatus for blower-pipes when filling. A. G. Loock. No. 1,400,753; Dec. 20.
- Silos. Means and method for building. F. Thiel. No. 1,370,166; Mar. 1; v. 284; p. 78.
- Silt-accumulator. H. F. Kellner. No. 1,389,513; Aug. 30; v. 289; p. 939.
- Silver. Extracting. P. R. Middleton. No. 1,372,973; Mar. 29; v. 284; p. 825.
- Silver-ribbon icicle. C. W. Arnum. No. 1,368,996; Feb. 22; v. 283; p. 557.
- Silverware-cleaner. J. Reiges. No. 1,367,280; Feb. 1; v. 283; p. 79.
- Silverware. Packing. C. K. Decherd. No. 1,387,132; Aug. 9; v. 289; p. 304.
- Sine-bar. H. S. Noddings. No. 1,374,759; Apr. 12; v. 285; p. 308.
- Sine-bar fixture. C. Loeffler. No. 1,366,396; Jan. 25; v. 282; p. 582.
- Singeing apparatus. T. F. Hussa. No. 1,374,375; Apr. 12; v. 285; p. 233.
- Singeing threads. T. F. Hussa. No. 1,374,376; Apr. 12; v. 285; p. 234.
- Single-phase motor. C. L. Fortescue. No. 1,376,421; May 3; v. 286; p. 8.
- Sink. Adjustable. E. H. Arbuckle. No. 1,391,091; Sept. 20; v. 290; p. 462.
- Sink. Adjustable. K. Nebel. No. 1,385,262; July 19; v. 288; p. 545.
- Sink. Kitchen-. V. F. Hegrat. No. 1,366,910; Feb. 1; v. 283; p. 6.
- Sink-rack. Foldable. A. J. Riddle. No. 1,373,975; Apr. 5; v. 286; p. 117.
- Sink-refuse shovel. G. W. Fardon. No. 1,367,032; Feb. 1; v. 283; p. 30.
- Sink-seal. W. G. Wilson. No. 1,379,501; May 24; v. 286; p. 777.
- Sinks and other articles. Adjustable leg for. O. M. Redlon. No. 1,365,542; Jan. 11; v. 282; p. 332.
- Sinter-pan. S. A. Krom. No. 1,391,124; Sept. 20; v. 290; p. 469.
- Sintering-machines. Stewart grate construction for. A. L. Larson. No. 1,373,620; Apr. 5; v. 285; p. 46.
- Sintering pans. Grate for. J. E. Greenawalt. No. 1,388,334; Aug. 23; v. 289; p. 652.
- Sintering-pans. Grate for. J. E. Greenawalt. No. 1,388,335; Aug. 23; v. 289; p. 652.
- Sintering phosphatic materials. F. S. Washburn. No. 1,373,471; Apr. 5; v. 285; p. 18.
- Siphon. A. W. Schreiner. No. 1,382,600; June 21; v. 287; p. 543.
- Siphon-filter. J. Wurscher. No. 1,378,929; May 24; v. 286; p. 669.
- Sitascope. L. E. Yaggi and J. L. Cameron. No. 1,371,964; Mar. 15; v. 284; p. 531.
- Six-stroke three-phase engine. J. M. Cage. No. 1,367,797; Feb. 8; v. 283; p. 238.
- Sizer and grader. A. M. O'Quinn. No. 1,379,207; May 24; v. 286; p. 721.
- Sizer and grader. A. M. O'Quinn. No. 1,382,538; June 21; v. 287; p. 531.
- Sizer and shaker. Hurl. G. L. McArthur. No. 1,384,475; July 12; v. 288; p. 301.
- Sizing and making the same. W. P. Upham. No. 1,392,988; Oct. 11.
- Sizing composition. F. J. Morrison. No. 1,365,715; Jan. 18; v. 282; p. 406.
- Sizing-machine. W. R. Edwards. No. 1,389,036; Aug. 30; v. 289; p. 845.
- Sizing machine. Ball-. F. E. Mueller. No. 1,366,130; Jan. 18; v. 282; p. 486.
- Sizing-tester. H. G. Boon and C. A. Fourness. No. 1,391,041; Sept. 20; v. 290; p. 452.
- Skate. C. H. Clark. No. 1,379,250; May 24; v. 286; p. 729.
- Skate. C. B. Drevitson. No. 1,371,608; Mar. 15; v. 284; p. 463.
- Skate. C. B. Drevitson. No. 1,371,609; Mar. 15; v. 284; p. 464.
- Skate. W. W. Karro. No. 1,393,024; Oct. 11.
- Skate. E. Saundry. No. 1,367,328; Feb. 1; v. 283; p. 89.
- Skate device. H. C. Long. No. 1,380,914; June 7; v. 287; p. 113.
- Skate-fastener. M. J. Hoffenberg. No. 1,398,857; Nov. 29.
- Skate. Roller-. W. W. Karro. No. 1,367,397; Feb. 1; v. 283; p. 103.
- Skate. Roller-. J. Muck. No. 1,393,813; Oct. 18.
- Skate. Roller-. F. W. Nall. No. 1,374,464; Apr. 12; v. 285; p. 251.
- Skate. Roller-. B. F. Spencer. No. 1,369,849; Mar. 1; v. 284; p. 18.
- Skee. A. H. Evans. No. 1,364,922; Jan. 11; v. 282; p. 213.
- Skee attachment. S. Holmgren. No. 1,367,185; Feb. 1; v. 283; p. 60.
- Skee-fitting. J. E. C. Holmes. No. 1,372,752; Mar. 29; v. 284; p. 780.
- Skee-stopper. A. H. E. Beckman. No. 1,401,940; Dec. 27.
- Skees. Toe-strap for. M. E. McClellan. No. 1,391,260; Sept. 20; v. 290; p. 497.
- Skein. M. O. Clauss. No. 1,401,521; Dec. 27.
- Skein. Adjustable wagon-. P. Stewart. No. 1,400,385; Dec. 13.
- Skein-binding mechanism. M. O. Clauss. No. 1,401,519; Dec. 27.
- Skein forming and boxing machine. C. H. Gegauff. No. 1,399,109; Dec. 6.
- Skein-holder. M. O. Clauss. No. 1,401,518; Dec. 27.
- Skein supporting and folding means. M. O. Clauss. No. 1,401,522; Dec. 27.
- Skein-winding mechanism. M. O. Clauss. No. 1,401,516; Dec. 27.
- Skeins. Winding. M. O. Clauss. No. 1,401,515; Dec. 27.
- Skeinng-machine. M. O. Clauss. No. 1,401,517; Dec. 27.
- Skeinng-machine. H. E. Verran and M. O. Clauss. No. 1,365,641; Jan. 11; v. 282; p. 351.
- Skeinng-machines. Binding device for. H. E. Verran and M. O. Clauss. No. 1,381,679; June 14; v. 287; p. 309.
- Skelp. Bending. J. W. Free. No. 1,374,146; Apr. 5; v. 285; p. 148.
- Skelp. Mill for cold-rolling. J. W. Free. No. 1,374,145; Apr. 5; v. 285; p. 148.
- Skiascopy. Schematic eye for. M. Uribe-Troncoso. No. 1,377,740; May 10; v. 286; p. 316.
- Skid. J. C. Churley. No. 1,374,550; Apr. 12; v. 285; p. 268.
- Skinning-tool. C. W. Young. No. 1,379,153; May 24; v. 286; p. 712.
- Skins and leathers. Stretching machine for tanned. E. Durio. No. 1,367,028; Feb. 1; v. 283; p. 29.
- Skirt and sporting-trousers. Combined. N. J. Tjæransen. No. 1,374,040; Apr. 5; v. 285; p. 128.
- Skirt-clasp. A. Wilke. No. 1,401,453; Dec. 27.
- Skirt-hanger. D. Witbeck. No. 1,375,808; Apr. 26; v. 285; p. 602.
- Skirt-holder. A. Ek. No. 1,365,472; Jan. 11; v. 282; p. 319.
- Skirt-marker. J. Bailey and S. Kelley. No. 1,377,179; May 10; v. 286; p. 208.
- Skirt-marker. H. L. Hibbs. No. 1,373,614; Apr. 5; v. 285; p. 45.
- Skirt-marker. F. W. Simon. No. 1,371,446; Mar. 15; v. 284; p. 432.
- Skirt-templet. U. Maeda. No. 1,390,534; Sept. 13; v. 290; p. 287.
- Skiving-machine. P. R. Glass. No. 1,399,763; Dec. 13.
- Skiving-machine. B. E. Maxwell. No. 1,388,358; Aug. 23; v. 289; p. 656.
- Skiving-machine. E. J. Ray. No. 1,392,596; Oct. 4.
- Skiving-machine. J. Robinson. No. 1,388,971; Aug. 30; v. 289; p. 831.
- Skiving-machine. W. C. Stewart. No. 1,382,689; June 28; v. 287; p. 614.
- Skiving machine. Shoe-blank. E. E. Lane. No. 1,382,656; June 28; v. 287; p. 608.
- Skiving-machines. Friction drive for. W. B. Gowdy and L. G. Freeman. No. 1,367,041; Feb. 1; v. 283; p. 31.
- Skiving-machines. Presser-foot for. W. P. Crockett. No. 1,372,647; Mar. 22; v. 284; p. 718.
- Skull-cap frame and guide. G. M. Cruse. No. 1,398,842; Nov. 29.
- Skylight. T. Martin. No. 1,368,639; Feb. 15; v. 283; p. 448.
- Skylight. C. Yauch. No. 1,368,531; Feb. 15; v. 283; p. 428.



- Skylight, Puttyless steel. L. Partzschfeld, Jr. No. 1,379,359; May 24; v. 286; p. 751.
- Skylights, &c., Ridge construction for. J. Sylvan. No. 1,401,208; Dec. 27.
- Slab, Concrete paving-. R. S. Cade. No. 1,371,556; Mar. 15; v. 284; p. 511.
- Slab construction, Removable floor-form section for use in connection with column-forms used in. H. J. Eberle. No. 1,379,003; May 24; v. 286; p. 683.
- Slab-molding machine, Plaster-. F. M. Johnson. No. 1,399,485; Dec. 6.
- Slab or tile, Building. T. Lydon. No. 1,379,636; May 31; v. 286; p. 877.
- Slack-adjuster. C. F. Kahler. No. 1,396,218; Nov. 8.
- Slack-adjuster. B. Schechter. No. 1,395,738; Nov. 1.
- Slack-adjuster, Automatic. T. R. Brown. No. 1,388,020; Aug. 16; v. 289; p. 531.
- Slack-adjuster, Automatic. J. E. Redford. No. 1,370,840; Mar. 8; v. 284; p. 251.
- Slack-adjuster, Automatic. J. E. Redford. No. 1,381,932; June 21; v. 287; p. 417.
- Slack-adjuster, Brake. J. E. Redford. No. 1,370,841; Mar. 8; v. 284; p. 252.
- Slack-water system, Quick-return. H. P. L. Laussucq. No. 1,381,315; June 14; v. 287; p. 240.
- Slag, Cleaning converter-. H. H. Stout. No. 1,372,047; Mar. 22; v. 284; p. 604.
- Slag-disintegrator. A. G. Carlson. No. 1,399,848; Dec. 13.
- Slag-furnace. E. E. James. No. 1,392,504; Oct. 4.
- Slag, Granulating converter-. S. R. Garr. No. 1,378,223; May 17; v. 286; p. 461.
- Slag-pocket floor. S. G. Worton. No. 1,365,436; Jan. 11; v. 282; p. 312.
- Slag, Process of and apparatus for making. J. Lund. No. 1,366,398; Jan. 25; v. 282; p. 582.
- Slags, Process and apparatus for the electrical utilization of molten. J. E. Bloom. No. 1,377,554; May 10; v. 286; p. 280.
- Slashers and finishers, Attachment for. G. H. Wilson. No. 1,377,044; May 3; v. 286; p. 127.
- Slat-repairing device. J. B. Lesage. No. 1,388,051; Aug. 16; v. 289; p. 538.
- Sled. E. J. Gebhardt. No. 1,391,312; Sept. 20; v. 290; p. 508.
- Sled. C. J. Johnson. No. 1,387,546; Aug. 16; v. 289; p. 438.
- Sled. J. Leicht. Jr. No. 1,394,629; Oct. 25.
- Sled. G. F. Mish. No. 1,392,783; Oct. 4.
- Sled-brake. F. Forte. No. 1,371,155; Mar. 8; v. 284; p. 311.
- Sled-brake. H. A. Rowe. No. 1,388,765; Aug. 23; v. 289; p. 735.
- Sled, Coaster-. G. E. Pollock. No. 1,366,833; Jan. 25; v. 282; p. 670.
- Sled, Collapsible. M. Brown. No. 1,364,423; Jan. 4; v. 282; p. 73.
- Sled, Collapsible. M. Brown. No. 1,384,553; July 12; v. 288; p. 318.
- Sleeping-compartment. R. N. Richardson. No. 1,375,417; Apr. 19; v. 285; p. 497.
- Sled, Hand-. W. E. Sherwood. No. 1,392,083; Sept. 27; v. 290; p. 737.
- Sled-propeller. W. R. Mulock. No. 1,401,275; Dec. 27.
- Sled-track. L. G. Siercks. No. 1,377,445; May 10; v. 286; p. 261.
- Sleds, Attachment for. L. Leicht. No. 1,380,660; June 7; v. 287; p. 64.
- Sleds, Guiding device for. W. H. Evans. No. 1,390,106; Sept. 6; v. 290; p. 111.
- Sleeve and dust-cap, Combined lock-. W. M. Anderson. No. 1,370,395; Mar. 1; v. 284; p. 121.
- Sleeve-closing flap. L. G. Milkes. No. 1,365,526; Jan. 11; v. 282; p. 329.
- Sleeves, Device for indicating the length and hang of coat-. J. C. Carlson. No. 1,390,340; Sept. 13; v. 290; p. 248.
- Sleeve-holder. S. Abe. No. 1,399,730; Dec. 13.
- Sleeve-protector. B. Yaeger. No. 1,378,081; May 17; v. 286; p. 435.
- Sleeve-puller. N. E. Koch. No. 1,382,838; June 28; v. 287; p. 642.
- Sleeve-puller. J. H. Wilson. No. 1,384,289; July 12; v. 288; p. 263.
- Sleeve-puller and lifting-jack, Combined. J. W. Moyles. No. 1,400,897; Dec. 20.
- Sleeve-valve engine. W. Noble. No. 1,384,401; July 12; v. 288; p. 286.
- Sleeve-vest. H. C. Hanson. No. 1,388,563; Aug. 23; v. 289; p. 696.
- Sleigh and express-wagon, Auto roller-. C. Daum. No. 1,371,198; Mar. 8; v. 284; p. 319.
- Sleigh attachment for autos. N. O. Nelson. No. 1,392,438; Oct. 4.
- Sleigh, Automobile-. L. C. Lefebvre. No. 1,371,035; Mar. 8; v. 284; p. 288.
- Sleigh-brake. M. W. Seifert. No. 1,392,229; Sept. 27; v. 290; p. 766.
- Sleigh, Motor-. G. Brownlee. No. 1,390,084; Sept. 6; v. 290; p. 106.
- Sleigh, Motor-. L. G. A. F. Jaekel. No. 1,399,624; Dec. 6.
- Sleigh, Motor-vehicle. W. B. Jenkins. No. 1,385,251; July 19; v. 288; p. 543.
- Sleigh-runner. J. Melby. No. 1,370,338; Mar. 1; v. 284; p. 110.
- Sleigh-runner. A. Reid. No. 1,380,680; June 7; v. 287; p. 68.
- Sleigh suspension, Automobile-. A. Kégresse. No. 1,392,688; Oct. 4.
- Slicer, Cabbage-. M. Chrastek. No. 1,398,257; Nov. 29.
- Slicer, Fruit-. C. S. Fish. No. 1,399,950; Dec. 13.
- Slicer, Fruit-. F. C. Pratt. No. 1,389,270; Aug. 30; v. 289; p. 891.
- Slicer, Fruit and vegetable. E. S. Porter. No. 1,371,394; Mar. 15; v. 284; p. 421.
- Slicer, Meat-. W. F. H. Braun. No. 1,366,764; Jan. 25; v. 282; p. 656.
- Slicer, Vegetable-. A. E. Russell. No. 1,379,724; May 31; v. 286; p. 893.
- Slicing and chopping machine, Vegetable. M. Rejkowski. No. 1,390,217; Sept. 6; v. 290; p. 132.
- Slicing and cutting machine, Vegetable. S. Kendrek. No. 1,373,135; Mar. 29; v. 284; p. 857.
- Slicing-machine. A. G. Alberti and A. B. Baron. No. 1,369,600; Feb. 22; v. 283; p. 674.
- Slicing-machine. W. F. H. Braun. No. 1,397,158; Nov. 15.
- Slicing-machine. E. K. Hood. No. 1,372,023; Mar. 22; v. 284; p. 599.
- Slicing-machine. W. C. Knapp. No. 1,380,393; June 7; v. 287; p. 13.
- Slicing-machine. W. C. Knapp and H. T. Lockman. No. 1,401,539; Dec. 27.
- Slicing-machine. G. E. Sandbeck. No. 1,381,091; June 7; v. 287; p. 147.
- Slicing-machine. J. D. Vaughn. No. 1,397,469; Nov. 15.
- Slicing machine. S. Wile. No. 1,393,868; Oct. 18.
- Slicing-machine. O. J. Williams. No. 1,377,649; May 10; v. 286; p. 298.
- Slicing-machine. W. B. Wolff. No. 1,369,153; Feb. 22; v. 283; p. 588.
- Slicing machine, Bread-. G. Segschneider. No. 1,396,290; Nov. 8.
- Slicing machine, Meat-. C. J. Lensvelt. No. 1,379,410; May 24; v. 286; p. 760.
- Slicing machine, Meat-. J. H. Osborne. No. 1,366,927; Feb. 1; v. 283; p. 9.
- Slicing-machines, Holder for. C. F. M. van Berkel. No. 1,395,690; Nov. 1.
- Slicing-machines, Holder for. E. M. Stiles. No. 1,400,698; Dec. 20.
- Slicing-machines, Individual work-holder for. A. M. Demuth. No. 1,372,487; Mar. 22; v. 284; p. 688.
- Slicing-machines, Individual work-holder attachment for. A. M. Demuth. No. 1,373,952; Apr. 5; v. 285; p. 112.
- Slicing-machines, Operating mechanism for. E. K. Hood and W. B. Wolff. No. 1,391,320; Sept. 20; v. 290; p. 510.
- Slicing-machines, Stacker for. A. R. Luschka and J. Folk. No. 1,376,775; May 3; v. 286; p. 74.
- Slide-cover box. A. L. Weis. No. 1,394,591; Oct. 25.
- Slide-ring. C. A. Goozey. No. 1,365,911; Jan. 18; v. 282; p. 445.
- Sliding-door hanger. A. F. Larson. No. 1,375,915; Apr. 26; v. 285; p. 624.
- Sliding-door hanger. A. F. Larson. No. 1,375,916; Apr. 26; v. 285; p. 624.
- Sliding-door hanger. K. J. Tobin. No. 1,373,684; Apr. 5; v. 285; p. 59.
- Sliding-door lock. H. Benson. No. 1,381,271; June 14; v. 287; p. 233.
- Sliding gate. A. O. Edwards. No. 1,370,296; Mar. 1; v. 284; p. 102.
- Sliding mechanism. G. Hazelton. No. 1,390,904; Sept. 13; v. 290; p. 362.
- Sliding name-register. L. M. A. Haughwout. No. 1,368,144; Feb. 8; v. 283; p. 304.
- Sliding switch. L. Kovacs. No. 1,375,300; Apr. 19; v. 285; p. 475.
- Sling for use with parachutes, Safety spring-. E. R. Calthrop. No. 1,401,040; Dec. 20.
- Slip-clevis. A. B. Starkey. No. 1,384,217; July 12; v. 288; p. 248.
- Ship hook. A. E. Smith. No. 1,379,786; May 31; v. 286; p. 904.
- Slip-jaw wrench. M. I. Ginsburg. No. 1,391,251; Sept. 20; v. 290; p. 495.
- Slip-on, Collapsible. M. S. Dunkelberger. No. 1,385,043; July 19; v. 288; p. 500.
- Slip printing and registering machine. H. A. Martin. No. 1,399,391; Dec. 6.
- Slips, Device for forming posting-. F. L. Manny. No. 1,379,411; May 24; v. 286; p. 760.
- Slipper. P. E. Giroux. No. 1,396,419; Nov. 8.
- Slipper, Moccasin-. J. K. McQuinn. No. 1,398,108; Nov. 22.
- Slitter-feed. D. P. Robinson, J. Coyle, and A. L. Kronquest. No. 1,395,207; Oct. 25.
- Sitting and winding machine. J. F. Ancona. No. 1,371,770; Mar. 15; v. 284; p. 494.
- Slot cutter, Key-. A. T. Ryberg. No. 1,364,524; Jan. 4; v. 282; p. 93.
- Slotting-machine. M. B. Diskin. No. 1,376,410; May 3; v. 286; p. 6.
- Slotting-machine. H. S. Jones. No. 1,389,308; Aug. 30; v. 289; p. 899.
- Slotting-machine. J. H. Scarborough. No. 1,398,202; Nov. 22.



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- Slotting-machine, Tool-head for. G. F. Muth. No. 1,401,718; Dec. 27.
- Slub-catcher. J. O. McKean. No. 1,391,331; Sept. 20; v. 290; p. 512.
- Slubbing-machine. M. K. Ballard. No. 1,379,511; May 24; v. 286; p. 779.
- Sludge, Treating. K. Imhoff and H. Blunk. No. 1,399,561; Dec. 6.
- Slug-casting machine. W. Alderdice. No. 1,379,892; May 31; v. 286; p. 924.
- Slug-casting machine. H. C. Buchwald. No. 1,372,932; Mar. 29; v. 284; p. 817.
- Sluicing apparatus. Ground-. J. W. Dunham. No. 1,380,642; June 7; v. 287; p. 60.
- Smash-preventer. A. P. Cinquegrana and P. De Caprio. No. 1,372,217; Mar. 22; v. 284; p. 636.
- Smelting-furnace, Crucible. C. M. Stein. No. 1,365,204; Jan. 11; v. 282; p. 267.
- Smelting-furnaces, Device for closing the tap-holes in. F. Haarmann. No. 1,401,072; Dec. 20.
- Smelting minerals. F. W. Smith. No. 1,385,723; July 26; v. 288; p. 716.
- Smelting or fusing metallic substances. B. Stoughton. No. 1,376,479; May 3; v. 286; p. 19.
- Smocking-pattern. H. S. Sadtler. No. 1,377,631; May 10; v. 286; p. 295.
- Smoke and testing porous material thereby, Method and apparatus for generating. A. Abrams. No. 1,395,247; Nov. 1.
- Smoke-consumer. G. D. Brown. No. 1,391,609; Sept. 20; v. 290; p. 567.
- Smoke-consumer. W. D. Smith. No. 1,388,384; Aug. 23; v. 289; p. 662.
- Smoke-consuming furnace. M. Cummings. No. 1,368,389; Feb. 15; v. 283; p. 399.
- Smoke-consuming furnace. A. C. Mott, Jr. No. 1,372,534; Mar. 22; v. 284; p. 697.
- Smoke-preventer. B. L. Ames. No. 1,397,155; Nov. 15.
- Smokehouse. A. L. Kane. No. 1,383,814; July 5; v. 288; p. 116.
- Smokehouse. C. W. Koehler. No. 1,398,726; Nov. 29.
- Smoker's pipe. C. N. Subtirelu. No. 1,290,657; Sept. 13; v. 290; p. 313.
- Smoker's stand. T. F. Hathaway. No. 1,372,948; Mar. 29; v. 284; p. 820.
- Smoker's utensil. E. Schulte and J. Weite, Jr. No. 1,364,892; Jan. 11; v. 282; p. 207.
- Smokestack. W. Hawker. No. 1,382,508; June 21; v. 287; p. 526.
- Smoking-pipe. C. F. Hanable. No. 1,397,958; Nov. 22.
- Smoking-pipe. H. Hess. No. 1,391,474; Sept. 20; v. 290; p. 540.
- Smoking-pipe. G. A. Highfield. No. 1,397,632; Nov. 22.
- Smoking-pipe. H. J. McGuckin. No. 1,388,733; Aug. 23; v. 289; p. 729.
- Smoking-pipe cleaner. E. C. Gunnarson. No. 1,380,897; June 7; v. 287; p. 110.
- Smoking-stand. P. H. Esch. No. 1,389,038; Aug. 30; v. 289; p. 845.
- Smoothing-irons, Attachment for. R. E. Campbell. No. 1,376,512; May 3; v. 286; p. 25.
- Smut, Compound for treatment of. J. P. Minne. No. 1,375,529; Apr. 19; v. 285; p. 518.
- Snap-fastener. C. Baum. No. 1,386,306; Aug. 2; v. 289; p. 69.
- Snap fastener. W. H. Farnham. No. 1,387,135; Aug. 9; v. 289; p. 304.
- Snap-fastener. A. Frankel. No. 1,391,250; Sept. 20; v. 290; p. 495.
- Snap-fastener. G. A. Holmes. No. 1,376,389; Apr. 26; v. 285; p. 714.
- Snap-fastener. H. H. Krechmer and W. E. Cohen. No. 1,391,640; Sept. 20; v. 290; p. 574.
- Snap-fastener. I. Moss. No. 1,380,826; June 7; v. 287; p. 96.
- Snap-fastener. W. W. Penfield. No. 1,392,281; Sept. 27; v. 290; p. 777.
- Snap-fastener. S. W. Warrington. No. 1,366,105; Jan. 18; v. 282; p. 482.
- Snap-fastener. W. F. Watkins. No. 1,389,173; Aug. 30; v. 289; p. 872.
- Snap-fasteners, Machine for carding. E. L. Roger. No. 1,400,002; Dec. 13.
- Snap-fasteners, Mount for. I. Moss. No. 1,379,202; May 24; v. 286; p. 721.
- Snap-fasteners on garments, Machine for setting. I. Wolfeld and A. Kohe. No. 1,387,530; Aug. 16; v. 289; p. 435.
- Snap-fasteners, Stud for. G. A. Holmes. No. 1,389,758; Sept. 6; v. 290; p. 40.
- Snap-hook. K. F. Gerhard. No. 1,388,557; Aug. 23; v. 289; p. 695.
- Snap-hook. E. C. Hesse. No. 1,390,129; Sept. 6; v. 290; p. 115.
- Snap ornament fastener. N. Bandell. No. 1,368,878; Feb. 15; v. 283; p. 495.
- Snap-switch. T. L. Parker. No. 1,389,213; Aug. 30; v. 289; p. 879.
- Snip, Metallic. W. W. Underwood. No. 1,368,077; Feb. 8; v. 283; p. 290.
- Snow, Apparatus for removing. J. Pullar. No. 1,398,042; Nov. 22.
- Snow-gathering device. M. Markovich. No. 1,397,436; Nov. 15.
- Snow-guard. F. A. Peter. No. 1,366,703; Jan. 25; v. 282; p. 644.
- Snow-melting apparatus. P. Connolly. No. 1,388,027; Aug. 16; v. 289; p. 533.
- Snow-melting apparatus. B. Goldman. No. 1,391,889; Sept. 27; v. 290; p. 697.
- Snow, Method of and apparatus for removing. A. F. Krueger. No. 1,390,622; Sept. 13; v. 290; p. 306.
- Snow-removal apparatus. C. Squire. No. 1,386,137; Aug. 2; v. 289; p. 35.
- Snow-remover. H. T. Brown. No. 1,388,509; Aug. 23; v. 289; p. 686.
- Snow-remover. F. F. Daniels. No. 1,398,454; Nov. 29.
- Snow-removing machine. E. C. Midgley. No. 1,392,877; Oct. 4.
- Snow-sweeper, Sidewalk. J. Pantaleone and M. Zoda. No. 1,393,640; Oct. 11.
- Snowplow. H. J. Bebow. No. 1,392,739; Oct. 4.
- Snowplow. J. D. Bergeron. No. 1,389,118; Aug. 30; v. 289; p. 861.
- Snowplow. W. A. Everitt. No. 1,392,132; Sept. 27; v. 290; p. 747.
- Snowplow. N. Hill. No. 1,401,256; Dec. 27.
- Snowplow. M. Jezova. No. 1,396,846; Nov. 15.
- Snowplow. M. V. Liddell. No. 1,383,409; July 5; v. 288; p. 32.
- Snowplow. F. A. Lund. No. 1,386,066; Aug. 2; v. 289; p. 21.
- Snowplow. J. V. Maryland. No. 1,396,377; Nov. 8.
- Snowplow. C. W. Yeiter. No. 1,389,727; Sept. 6; v. 290; p. 34.
- Snowplow, Automobile-. H. H. Clark. No. 1,365,153; Jan. 11; v. 282; p. 257.
- Snowplow, Rotary. O. T. Bekkerus. No. 1,393,935; Oct. 18.
- Snowplow, Steam-heated. J. L. Boyle. No. 1,376,741; May 3; v. 286; p. 68.
- Snubber. F. H. Ream. No. 1,390,385; Sept. 13; v. 290; p. 257.
- Snuff-box opener. B. Heeren. No. 1,381,831; June 14; v. 287; p. 338.
- Soaking and washing machine. G. J. Meyer. No. 1,381,825; June 14; v. 287; p. 242.
- Soap. E. T. Ladd. No. 1,370,824; Mar. 8; v. 284; p. 249.
- Soap. L. M. Liddle. No. 1,377,843; May 10; v. 286; p. 337.
- Soap and like substances, Machine for molding. J. Smith. No. 1,384,571; July 12; v. 288; p. 321.
- Soap, Apparatus for molding. C. O. Phillips. No. 1,391,970; Sept. 27; v. 290; p. 714.
- Soap, Apparatus for molding. C. O. Phillips. No. 1,391,971; Sept. 27; v. 290; p. 714.
- Soap, Apparatus for molding. C. O. Phillips. No. 1,391,973; Sept. 27; v. 290; p. 714.
- Soap, Apparatus for molding and cooling. C. O. Phillips. No. 1,391,974; Sept. 27; v. 290; p. 715.
- Soap, Apparatus for supplying. A. Traube. No. 1,385,735; July 26; v. 288; p. 718.
- Soap-bag and washrag. C. I. S. Wilson. No. 1,386,041; Aug. 2; v. 289; p. 16.
- Soap-bubble device. M. G. Dobbins. No. 1,397,162; Nov. 15.
- Soap-bubble pipe. I. Cohn. No. 1,389,098; Aug. 30; v. 289; p. 857.
- Soap containers, Support for liquid-. T. M. De Fore. No. 1,387,363; Aug. 9; v. 289; p. 350.
- Soap-dish. A. L. Cheak. No. 1,380,288; May 31; v. 286; p. 999.
- Soap-dispenser. W. H. Rose. No. 1,392,601; Oct. 4.
- Soap dispenser, Liquid-. R. H. Little. No. 1,370,460; Mar. 1; v. 284; p. 134.
- Soap dispenser, Liquid-. W. H. Rose. No. 1,392,600; Oct. 4.
- Soap-dispensing apparatus. R. Swimmer. No. 1,397,344; Nov. 15.
- Soap-dispensing appliance. E. Y. Z. Wood. No. 1,369,595; Feb. 22; v. 283; p. 673.
- Soap, Forming cakes of. M. L. Crouch. No. 1,401,050; Dec. 20.
- Soap-holder. M. Windecker. No. 1,390,184; Sept. 6; v. 290; p. 126.
- Soap, Manufacture of. M. H. Ittner. No. 1,367,973; Feb. 8; v. 283; p. 271.
- Soap, Method and apparatus for molding. C. O. Phillips. No. 1,391,972; Sept. 27; v. 290; p. 714.
- Soap, Method for molding and cooling. C. O. Phillips. No. 1,391,975; Sept. 27; v. 290; p. 715.
- Soap-packing machine. B. H. Becker. No. 1,367,852; Feb. 8; v. 283; p. 249.
- Soap-powder dispenser. J. W. Rembe. No. 1,383,664; July 5; v. 288; p. 84.
- Soap, Sawdust. F. W. Raicy. No. 1,387,804; Aug. 16; v. 289; p. 490.
- Soap, Stick of shaving-. J. Kaufman. No. 1,380,388; June 7; v. 287; p. 12.
- Soap tablet. D. L. Chandler. No. 1,386,767; Aug. 9; v. 289; p. 231.
- Soapstone equivalent. E. T. Young. No. 1,391,037; Sept. 20; v. 290; p. 452.
- Socket and anchorage, Combined. A. Chambley. No. 1,368,896; Feb. 15; v. 283; p. 498.



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- Socket and reflector. E. M. Larkins. No. 1,302,510; Oct. 4.
- Socket, Combination slip-. S. Bullum. No. 1,365,086; Jan. 11; v. 282; p. 244.
- Socket-interrupter. M. H. Shoenberg. No. 1,400,014; Dec. 20.
- Socket, Locking-. C. E. Ashley. No. 1,379,606; May 31; v. 286; p. 871.
- Socket, Locking-. C. E. Ashley. No. 1,379,607; May 31; v. 286; p. 872.
- Socket, Multiple sucker-rod. A. H. Neilson. No. 1,382,602; June 21; v. 287; p. 544.
- Socket, Pull-. R. A. Schoenberg (now R. A. Belmont). No. 1,393,043; Oct. 11.
- Socket-wrench. W. A. Abegg. No. 1,365,071; Jan. 11; v. 282; p. 241.
- Socket-wrench. W. A. Abegg. No. 1,398,054; Nov. 22.
- Socket-wrench. E. Dietrich. No. 1,398,180; Nov. 22.
- Socket-wrench. F. Foss. No. 1,391,677; Sept. 27; v. 290; p. 654.
- Socket-wrench. T. S. Kizer. No. 1,395,585; Nov. 1.
- Socket-wrench. M. Quint. No. 1,392,220; Sept. 27; v. 290; p. 764.
- Socket-wrench. J. A. Rebman. No. 1,371,933; Mar. 15; v. 284; p. 525.
- Socket-wrench. O. E. Stewart and M. K. Combine. No. 1,388,979; Aug. 30; v. 289; p. 833.
- Socket-wrench. O. J. Williams. No. 1,390,738; Sept. 13; v. 290; p. 328.
- Socket-wrench. Q. B. Yaple. No. 1,372,113; Mar. 22; v. 284; p. 616.
- Socket-wrench, Adjustable. F. J. Herman. No. 1,379,918; May 31; v. 286; p. 930.
- Socket-wrench, Adjustable. J. O. Johnson. No. 1,370,820; Mar. 8; v. 284; p. 248.
- Socket-wrench, Adjustable. M. H. Redenbaugh. No. 1,370,839; Mar. 8; v. 284; p. 251.
- Socket wrench, Angular-. G. R. Fullenwider. (Reissue.) No. 15,093; Apr. 26; v. 285; p. 715.
- Socket-wrench, Foldable. R. C. Scott. No. 1,390,463; Sept. 13; v. 290; p. 272.
- Socket-wrench, Reversible. W. F. Radford. No. 1,372,453; Mar. 22; v. 284; p. 681.
- Soda-fountain. F. T. Wiechert. No. 1,394,130; Oct. 18.
- Soda-fountain. J. J. Wompey. No. 1,380,130; May 31; v. 286; p. 970.
- Soda-fountain faucet. C. U. Senter. No. 1,399,367; Dec. 6.
- Soda-fountain liquid-dispensing apparatus. R. Berry. No. 1,370,082; Mar. 1; v. 284; p. 62.
- Soda, Manufacture of caustic. C. Cramer. No. 1,392,814; Oct. 4.
- Soda-water draft-arms, Six-stream distributing attachment for. C. R. Ragsdale. No. 1,374,767; Apr. 12; v. 285; p. 309.
- Sodium acetate, &c., Production of acetone by distillation of. V. Drewsen. No. 1,385,866; July 26; v. 288; p. 744.
- Sodium carbonate and potassium chlorid from natural alkaline brines, Separating. J. W. Beckman. No. 1,393,603; Oct. 11.
- Sodium hypochlorite. J. R. MacMillan. No. 1,383,224; June 28; v. 287; p. 716.
- Sodium, Manufacture of metallic. A. W. Smith and W. R. Veazey. No. 1,375,330; Apr. 19; v. 285; p. 480.
- Sodium permanganate, Manufacture of. D. Tyrer. No. 1,368,076; Feb. 8; v. 283; p. 290.
- Sodium sesquicarbonate, Preparation of. W. Hirschkind. No. 1,396,841; Nov. 15.
- Sodium sulfate to sodium sulfid, Converting. R. J. Anderson. No. 1,397,497; Nov. 22.
- Sofa-bedstead. S. Shumsky. No. 1,374,961; Apr. 19; v. 285; p. 409.
- Softening apparatus. C. M. Bradford. No. 1,388,844; Aug. 30; v. 289; p. 806.
- Softening apparatus. M. Brock. No. 1,396,160; Nov. 8.
- Soil, Apparatus for tilling the. C. C. Cook. No. 1,390,089; Sept. 6; v. 290; p. 107.
- Soil cutting and working machine. W. G. Sheppard. No. 1,370,847; Mar. 8; v. 284; p. 253.
- Soil-loosening device. R. M. Freeman. No. 1,386,171; Aug. 2; v. 289; p. 42.
- Soil-surface, Plant for warming and moistening the. P. Wilde. No. 1,374,416; Apr. 12; v. 285; p. 242.
- Soil treatment, Process of and apparatus for. H. Knight. (Reissue.) No. 15,151; July 12; v. 288; p. 356.
- Solar motor. W. J. Harvey. No. 1,386,781; Aug. 9; v. 289; p. 233.
- Solder, Silver-. W. Bocchetti. No. 1,375,552; Apr. 19; v. 285; p. 522.
- Soldering-flux. H. Hess. No. 1,401,154; Dec. 27.
- Soldering-furnace. J. Blake. No. 1,401,514; Dec. 27.
- Soldering-furnace, Automatic blast. C. A. Hones. No. 1,381,836; June 14; v. 287; p. 339.
- Soldering-iron. C. B. Archer. No. 1,400,784; Dec. 20.
- Soldering-iron. C. A. Brown. No. 1,401,871; Dec. 27.
- Soldering-iron. A. A. Frum. No. 1,400,148; Dec. 13.
- Soldering-iron. F. Kuhn, L. H. Thomas, and J. G. Spiess. No. 1,394,562; Oct. 25.
- Soldering-iron. R. C. Parent. (Reissue.) No. 15,202; Sept. 27; v. 290; p. 778.
- Soldering-iron. R. G. Sands. No. 1,372,778; Mar. 29; v. 284; p. 785.
- Soldering-iron. J. L. Thompson. No. 1,371,711; Mar. 15; v. 284; p. 483.
- Soldering-iron, Electrically-heated. J. T. Griffin and W. A. Timm. No. 1,400,156; Dec. 18.
- Soldering-iron heater. J. Needham. No. 1,397,178; Nov. 15.
- Soldering-machine. T. N. Coffelder. No. 1,367,018; Feb. 1; v. 283; p. 27.
- Soldering-machine. J. T. Griffin, C. A. Nelson, and M. H. Campbell. No. 1,379,684; May 31; v. 286; p. 886.
- Soldering-machine. T. Myhrum. No. 1,389,894; Sept. 6; v. 290; p. 68.
- Soldering machine, Can-. A. W. Nielsen. No. 1,392,964; Oct. 11.
- Soldering machine, Can-. J. C. Strickler. No. 1,391,867; Sept. 27; v. 290; p. 693.
- Soldering machine, Can-. E. F. Thomas. No. 1,368,769; Feb. 15; v. 283; p. 474.
- Soldering-machine, Handle-. I. A. Pryde. No. 1,371,262; Mar. 15; v. 284; p. 395.
- Soldering-strip. F. Hodgkinson. No. 1,399,769; Dec. 13.
- Soldering-tool, Gas-heated. K. Rolle and J. F. Heine. No. 1,383,859; July 5; v. 288; p. 125.
- Sole. M. E. Johnson. No. 1,393,688; Oct. 11.
- Sole. A. F. Littlefield. No. 1,382,658; June 28; v. 287; p. 608.
- Sole and making. M. E. Johnson. No. 1,393,787; Oct. 18.
- Sole-blank-cutting machine with adjustable knives. C. A. Sawyer, Jr. No. 1,378,138; May 17; v. 286; p. 446.
- Sole, Boot or shoe. A. T. Saunders. No. 1,390,462; Sept. 13; v. 290; p. 272.
- Sole-channeling cutter. R. R. Lerevers. No. 1,392,422; Oct. 4.
- Sole-channeling machine. F. E. Bertrand. No. 1,383,448; July 5; v. 288; p. 40.
- Sole-channeling machine. J. H. Doyle. No. 1,399,753; Dec. 18.
- Sole-cutting machine. H. Kime. No. 1,367,269; Feb. 1; v. 283; p. 77.
- Sole-cutting machine. C. A. Sawyer, Jr. No. 1,368,225; Feb. 8; v. 283; p. 320.
- Sole, Detachable. J. W. Moore. No. 1,377,908; May 10; v. 286; p. 350.
- Sole, Detachable shoe-. S. Misco. No. 1,367,919; Feb. 8; v. 283; p. 261.
- Sole, Detachable dancing-. T. S. Hamilton. No. 1,395,958; Nov. 1.
- Sole-edge-treating tool. J. B. Hladaway. No. 1,381,917; June 21; v. 287; p. 415.
- Sole-fitting machine. J. W. Cosgrove. No. 1,375,676; Apr. 26; v. 285; p. 579.
- Sole, Inner-. P. Iaculli. No. 1,370,212; Mar. 1; v. 284; p. 86.
- Sole-laying machine. F. E. Valois. No. 1,389,714; Sept. 6; v. 290; p. 31.
- Sole-locating device. W. C. Stewart. No. 1,372,104; Mar. 22; v. 284; p. 614.
- Sole-machine, Automatic. E. E. Winkley. No. 1,383,446; July 5; v. 288; p. 39.
- Sole-marking machine. M. E. Fernald. No. 1,393,105; Oct. 11.
- Sole, Non-slipping. J. Contento. No. 1,365,767; Jan. 18; v. 282; p. 416.
- Sole of footgear, Appliance for rifling the margin of the. M. M. Sørensen. No. 1,376,474; May 8; v. 286; p. 19.
- Sole-rounding machine. C. C. Blake. No. 1,373,404; Apr. 5; v. 285; p. 4.
- Sole-skiving machine. J. H. Reed. No. 1,368,572; Feb. 15; v. 283; p. 436.
- Sole-tap for boots and shoes. E. J. Emery. No. 1,382,180; June 21; v. 287; p. 462.
- Soles and heels of footwear, Rubber protector for the. H. T. Stephens. No. 1,370,065; Mar. 1; v. 284; p. 58.
- Soles, Fabric backing for composition. G. B. Greenough. No. 1,400,428; Dec. 13.
- Soles, Holder for. J. A. Strange. No. 1,384,979; July 19; v. 288; p. 487.
- Soles, &c., Machine for grading. B. F. Hartwell. No. 1,368,721; Feb. 15; v. 283; p. 465.
- Soles, Machine for preparing. W. C. Stewart. No. 1,391,426; Sept. 20; v. 290; p. 531.
- Soles, Machine for trimming. J. H. Richardson. No. 1,392,799; Oct. 4.
- Soles to last-bottoms, Securing. C. C. Blake. No. 1,365,221; Jan. 11; v. 282; p. 270.
- Soles to uppers, Laying and securing. P. J. Wentworth. No. 1,379,375; May 24; v. 286; p. 754.
- Solenoid-operated valve and the like. A. Simon. No. 1,383,432; July 5; v. 288; p. 36.
- Solids and liquids and of cracking solids, liquids, and gases, Distilling. A. J. Paris, Jr. No. 1,392,788; Oct. 4.
- Solids from liquids, Apparatus for separating. S. R. Puryear. No. 1,400,980; Dec. 20.
- Solids from liquids, Apparatus for the continuous separation of. A. Bontemps and G. N. Vis. No. 1,382,056; June 21; v. 287; p. 440.
- Solids with gases or solids with solids and gases, including fertilizers and apparatus therefor, and the products resulting therefrom, Electrical treatment in the compounding of. J. E. Bloom. No. 1,377,553; May 10; v. 286; p. 280.



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- Soluble bodies, Decomposing, transposing, dissolving, or rendering soluble difficulty. H. D. Rankin. No. 1,378,485; May 17; v. 286; p. 511.
- Solution-forming device. H. Moffatt. No. 1,365,183; Jan. 11; v. 282; p. 263.
- Solution method of pasting, Two-. W. B. Schulte. No. 1,370,056; Mar. 1; v. 284; p. 57.
- Solutions by percolation, Apparatus and package for forming. J. B. Clermont. No. 1,377,316; May 10; v. 286; p. 235.
- Solvent. C. Ellis. No. 1,365,049; Jan. 11; v. 282; p. 237.
- Solvent for pyroxylin bodies. R. B. Mitchell. No. 1,398,239; Nov. 29.
- Solvent recovery. A. S. O'Neil. No. 1,381,002; June 7; v. 287; p. 130.
- Solvent-recovery apparatus. W. K. Lewis and W. Green. No. 1,371,914; Mar. 15; v. 284; p. 521.
- Solvents, Recovering volatile. H. P. Bassett and S. S. Sadtler. No. 1,395,940; Nov. 1.
- Solvents, Recovering volatile. S. S. Sadtler. No. 1,365,791; Jan. 18; v. 282; p. 421.
- Solvents, The recovery of volatile. E. Bindschedler. No. 1,367,009; Feb. 1; v. 283; p. 25.
- Soot-blower. W. M. McNeill. No. 1,373,750; Apr. 5; v. 285; p. 71.
- Soot-blowing device. J. Kemnal and J. H. Henry. No. 1,377,622; May 10; v. 286; p. 293.
- Soot-cleaning apparatus. C. W. E. Clarke. No. 1,374,551; Apr. 12; v. 285; p. 268.
- Sorghum-cutter. C. Digac. No. 1,381,065; June 7; v. 287; p. 143.
- Sorting-machine. H. N. Halversen. No. 1,375,387; Apr. 19; v. 285; p. 491.
- Sorting-machine. L. L. Ladd. No. 1,396,221; Nov. 8.
- Sorting-machine, Electrically-controlled. W. W. Lasker. No. 1,376,556; May 3; v. 286; p. 83.
- Sorting-rack. T. Hawkins. No. 1,398,778; Nov. 29.
- Sound-amplifier. W. F. Smith. No. 1,370,375; Mar. 1; v. 284; p. 117.
- Sound-box. J. H. Ellis. No. 1,369,795; Mar. 1; v. 284; p. 8.
- Sound-box. F. N. Green. No. 1,372,018; Mar. 22; v. 284; p. 598.
- Sound-box. L. L. Hughes. No. 1,399,302; Dec. 6.
- Sound-box. W. C. Kantner. No. 1,394,427; Oct. 18.
- Sound-box. W. C. Kantner. No. 1,394,428; Oct. 18.
- Sound-box. G. A. Moore. No. 1,375,409; Apr. 19; v. 285; p. 495.
- Sound-box. G. A. Moore. No. 1,389,683; Sept. 6; v. 290; p. 24.
- Sound-box. H. K. Sandell. No. 1,399,404; Dec. 6.
- Sound-box. J. J. Scully. No. 1,377,632; May 10; v. 286; p. 295.
- Sound-box diaphragm. P. B. Delany. No. 1,401,143; Dec. 27.
- Sound-box mounting. C. Scrabic. No. 1,391,797; Sept. 27; v. 290; p. 678.
- Sound-box reproduction, Regulating. E. Gruenfeldt. (Reissue). No. 15,114; May 31; v. 286; p. 1009.
- Sound-boxes, Attachment for. F. L. Capps. No. 1,399,003; Dec. 6.
- Sound-boxes, Stylus-bar mounting for. H. Y. Prendergast. No. 1,395,972; Nov. 1.
- Sound-boxes, Tone-modifier for. H. Lubé. No. 1,395,195; Oct. 25.
- Sound-generator. M. I. Pupin. No. 1,399,877; Dec. 13.
- Sound ingots and billets of special steel, Manufacture of. R. A. Hadfield. No. 1,367,545; Feb. 8; v. 283; p. 190.
- Sound, &c., Method of and apparatus for detecting and locating. E. E. Ries. No. 1,365,795; July 26; v. 288; p. 730.
- Sound, Method of and apparatus for recording and reproducing. J. L. McQuarrie. No. 1,383,737; July 5; v. 288; p. 100.
- Sound-modifier. H. Leggett. No. 1,384,964; July 19; v. 288; p. 483.
- Sound-modifying device. J. L. McQuarrie. No. 1,393,557; Oct. 11.
- Sound-post. W. E. Leighton. No. 1,383,830; July 5; v. 288; p. 119.
- Sound-producing device. H. P. Bridges. No. 1,367,176; Feb. 1; v. 283; p. 58.
- Sound-producing device. J. H. Wheelock. No. 1,388,986; Aug. 30; v. 289; p. 834.
- Sound-producing mechanism, Time-controlling means for. A. C. Dittich. No. 1,373,176; Mar. 29; v. 284; p. 865.
- Sound-record. E. E. Novotny. No. 1,398,145; Nov. 22.
- Sound-record. E. E. Novotny. No. 1,398,148; Nov. 22.
- Sound-records, Apparatus for pressing up. G. W. Beadle. No. 1,372,992; Mar. 20; v. 284; p. 829.
- Sound-records, Composition for. E. de Stubner. No. 1,379,729; May 31; v. 286; p. 894.
- Sound-records, Indicating attachment for. R. B. Wheelan. No. 1,398,289; Nov. 29.
- Sound-records, Manufacture of. E. E. Novotny. No. 1,398,144; Nov. 22.
- Sound, Recording. W. H. Bristol. No. 1,380,864; June 7; v. 287; p. 104.
- Sound-reproducer. R. W. Charlton. No. 1,378,835; May 21; v. 286; p. 651.
- Sound-reproducer. J. Hoffay. No. 1,382,086; June 21; v. 287; p. 445.
- Sound-reproducer mounting. F. Koerblitz. No. 1,387,410; Aug. 9; v. 289; p. 360.
- Sound-reproducers, Modulating device for. G. S. Pease. No. 1,388,753; Aug. 23; v. 289; p. 733.
- Sound reproducing and recording apparatus. W. M. Smith. No. 1,383,271; June 28; v. 287; p. 724.
- Sound-reproducing apparatus. H. K. Sandell. No. 1,399,403; Dec. 6.
- Sound-reproducing apparatus, Resonance-chamber for. H. Schroder. No. 1,395,602; Nov. 1.
- Sound-reproducing machine. F. Cheney. Nos. 1,395,092-3; Oct. 25.
- Sound-reproducing machine. H. J. Durbrow and B. L. Winders. No. 1,370,794; Mar. 8; v. 284; p. 243.
- Sound-reproducing machine. W. R. Kenny. No. 1,390,041; Sept. 6; v. 290; p. 97.
- Sound-reproducing machine. J. Rossi. No. 1,385,475; July 26; v. 288; p. 665.
- Sound-reproducing machine. H. T. Schiff. No. 1,398,742; Nov. 29.
- Sound-reproducing machine, Automatic. J. T. Beard, Jr. No. 1,378,647; May 17; v. 286; p. 542.
- Sound-reproducing machines, Amplifier for. J. W. Booth. No. 1,376,508; May 3; v. 286; p. 24.
- Sound-reproducing machines, Amplifier for. F. T. Shackelford. No. 1,389,999; Sept. 6; v. 290; p. 89.
- Sound-reproducing machines, Automatic stop for. O. O. Storie. No. 1,375,864; Apr. 26; v. 285; p. 614.
- Sound-reproducing machines, Automatic stop for. C. P. Wetmore. No. 1,380,028; May 31; v. 286; p. 951.
- Sound-reproducing machines, Brake or stop device for. S. L. Schiff. No. 1,398,743; Nov. 29.
- Sound-reproducing machines, Modifying attachment for. P. E. Yeager. No. 1,377,652; May 10; v. 286; p. 299.
- Sound-reproducing machines, Repeating device for. A. M. Hilbig. No. 1,371,764; Mar. 15; v. 284; p. 493.
- Sound-reproducing machines, Tone-arm for. A. R. Rastall. No. 1,400,983; Dec. 20.
- Sound-selecting apparatus. W. H. Bristol. No. 1,396,402; Nov. 8.
- Sound-signaling. R. A. Fessenden. No. 1,384,029; July 5; v. 288; p. 160.
- Sound-signals, Receiving device for subaqueous. W. Hahnemann and H. Hecht. No. 1,391,681; Sept. 27; v. 290; p. 655.
- Sound-transmitting apparatus. E. H. Foley. No. 1,396,178; Nov. 8.
- Sound-transmitting instrument. A. Marr. No. 1,388,963; Aug. 30; v. 289; p. 830.
- Sound-vibration source, Amplifying system for a complex. L. M. Hart. No. 1,398,965; Dec. 6.
- Sound-vibrations, Reproducing. H. K. Sandell. No. 1,391,414; Sept. 20; v. 290; p. 528.
- Sound-waves on diaphragms, Device for impressing. C. G. Hensley. No. 1,397,048; Nov. 15.
- Sound-waves, Tuning of diaphragms for generating or receiving. L. V. King. No. 1,375,707; Apr. 26; v. 285; p. 585.
- Sounds and motions, Method of and apparatus for the reproduction of. L. A. Collins. No. 1,366,446; Jan. 25; v. 282; p. 592.
- Sounds, Device for modulation of. H. K. Sandell. No. 1,370,159; Mar. 1; v. 284; p. 76.
- Sounds, Wall or surface for deadening. J. K. Shaw. No. 1,383,344; July 5; v. 288; p. 18.
- Sounders, Operating. J. H. Bretthauer. No. 1,386,763; Aug. 9; v. 289; p. 230.
- Soundings, Apparatus for taking. P. S. Hudson. No. 1,395,572; Nov. 1.
- Soy. Quick method for brewing. M. Togano. No. 1,394,236; Oct. 18.
- Space-band. C. L. Johnson. No. 1,383,635; July 5; v. 288; p. 78.
- Space-band cleaner. J. List. No. 1,377,357; May 10; v. 286; p. 244.
- Spacer, Bar-. W. E. White. No. 1,369,949; Mar. 1; v. 284; p. 87.
- Spacing and punching machine. C. K. Lassiter. No. 1,375,302; Apr. 19; v. 285; p. 475.
- Spacing and punching machine, Sheet. N. E. Woods. No. 1,397,849; Nov. 22.
- Spacing-block. C. Grant. No. 1,385,823; July 26; v. 288; p. 736.
- Spacing-collar, Adjustable. E. A. Roop. No. 1,366,496; Jan. 25; v. 282; p. 602.
- Spacing mechanism. R. Shaw. No. 1,376,293; Apr. 26; v. 285; p. 696.
- Spacing mechanism. L. E. Topham. No. 1,381,256; June 14; v. 287; p. 230.
- Spading-machine. L. Furnari. No. 1,374,195; Apr. 12; v. 285; p. 199.
- Spading-machine. R. Magistro. No. 1,368,177; Feb. 8; v. 283; p. 310.
- Spanner. R. C. Woodville. No. 1,378,160; May 17; v. 286; p. 450.
- Spanner, Adjustable. R. Schäfer. No. 1,382,248; June 21; v. 287; p. 475.
- Spanner-wrench. G. H. Watkins. No. 1,384,684; July 12; v. 288; p. 346.



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- Spanners and the like. Device for operating the jaws of. R. Schäfer. No. 1,382,247; June 21; v. 287; p. 475.
- Spanners, wrenches, clamps, pipe-cutters, pipe-grips, &c., Construction of adjustable. F. Humphris. No. 1,393,534; Oct. 11.
- Spark-tree cap. J. Nadeau. No. 1,389,968; Sept. 6; v. 290; p. 82.
- Spark and throttle rod tension appliance. F. G. Withrow. No. 1,380,169; May 31; v. 286; p. 977.
- Spark-arrester. C. E. Levan. No. 1,375,052; Apr. 19; v. 285; p. 427.
- Spark-arrester. W. B. Nutting. No. 1,364,792; Jan. 4; v. 282; p. 144.
- Spark-arrester. W. B. Nutting. No. 1,364,793; Jan. 4; v. 282; p. 144.
- Spark-arrester. T. Rudzinski. No. 1,396,882; Nov. 15.
- Spark-arrester. J. A. Tweit. No. 1,373,466; Apr. 5; v. 285; p. 17.
- Spark-coil and making same. J. B. Replogle. No. 1,367,988; Feb. 8; v. 283; p. 274.
- Spark-gap. G. B. Crouse. No. 1,399,005; Dec. 6.
- Spark-gap apparatus. F. Lowenstein. No. 1,388,834; Aug. 23; v. 289; p. 748.
- Spark-gap device. H. Q. Nash. No. 1,382,113; June 21; v. 287; p. 450.
- Spark-gap. Rotary. A. J. Kloneck. No. 1,366,160; Jan. 18; v. 282; p. 493.
- Spark-gap. Rotary. A. J. Kloneck. No. 1,382,786; June 28; v. 287; p. 633.
- Spark-gaps, Contact for. A. E. Anderson. No. 1,401,231; Dec. 27.
- Spark-intensifier. W. Broad. No. 1,391,239; Sept. 20; v. 290; p. 493.
- Spark-intensifier. A. B. Christopher. No. 1,380,947; June 7; v. 287; p. 119.
- Spark-intensifier. O. A. Gerdes and E. Guth. No. 1,365,168; Jan. 11; v. 282; p. 244.
- Spark-intensifier. K. R. Koehler. No. 1,388,348; Aug. 23; v. 289; p. 654.
- Spark-intensifier. H. L. Miller. No. 1,370,341; Mar. 1; v. 284; p. 111.
- Spark-intensifier. R. L. Proesch. No. 1,371,114; Mar. 8; v. 284; p. 303.
- Spark-intensifier. P. A. Schaefer. No. 1,395,737; Nov. 1.
- Spark-plug. O. Allen, Jr. No. 1,394,523; Oct. 25.
- Spark-plug. R. R. Anderson. No. 1,365,143; Jan. 11; v. 282; p. 255.
- Spark-plug. D. L. Arnold. No. 1,376,500; May 3; v. 286; p. 23.
- Spark-plug. J. R. Ayotte. No. 1,369,874; Mar. 1; v. 284; p. 23.
- Spark-plug. T. T. Bathurst. No. 1,384,818; July 19; v. 288; p. 454.
- Spark-plug. G. R. Blodgett, M. E. Cheney, and R. T. Hurley. No. 1,399,375; Dec. 6.
- Spark-plug. W. Bohleber. No. 1,384,119; July 12; v. 283; p. 632.
- Spark-plug. G. L. Brewer. No. 1,369,386; Feb. 22; v. 283; p. 632.
- Spark-plug. C. W. Brewster. No. 1,390,014; Sept. 6; v. 290; p. 92.
- Spark-plug. J. O. Brock. No. 1,398,173; Nov. 22.
- Spark-plug. P. V. Carpenter. No. 1,401,670; Dec. 27.
- Spark-plug. A. Champion and A. Schmidt. No. 1,375,079; Apr. 19; v. 285; p. 432.
- Spark-plug. G. Christern. Nos. 1,400,524-5; Dec. 20.
- Spark-plug. A. de Clairmont. No. 1,381,167; June 14; v. 287; p. 214.
- Spark-plug. C. N. Clark. No. 1,374,431; Apr. 12; v. 285; p. 245.
- Spark-plug. H. E. Clemons. No. 1,398,175; Nov. 22.
- Spark-plug. E. L. Colby. No. 1,374,281; Apr. 12; v. 285; p. 215.
- Spark-plug. A. F. and V. D. Collins. No. 1,401,585; Dec. 27.
- Spark-plug. J. S. Coyle. No. 1,386,457; Aug. 2; v. 289; p. 96.
- Spark-plug. A. T. Crane. No. 1,367,303; Feb. 1; v. 283; p. 83.
- Spark-plug. A. F. Crane. No. 1,378,838; May 24; v. 286; p. 652.
- Spark-plug. C. S. Delano. No. 1,370,789; Mar. 8; v. 284; p. 242.
- Spark-plug. P. C. Depew. No. 1,377,407; May 10; v. 286; p. 253.
- Spark-plug. M. J. Di Giacomia. No. 1,401,151; Dec. 27.
- Spark-plug. J. L. Drake. No. 1,367,361; Feb. 1; v. 283; p. 95.
- Spark-plug. W. M. Ellis. No. 1,385,529; July 26; v. 288; p. 676.
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- Spark-plug. A. M. Fairchild. No. 1,369,274; Feb. 22; v. 283; p. 611.
- Spark-plug. H. L. Flood. No. 1,400,276; Dec. 13.
- Spark-plug. E. J. Gagnier. No. 1,368,554; Feb. 15; v. 283; p. 432.
- Spark-plug. H. E. Gill. No. 1,392,933; Oct. 11.
- Spark-plug. M. Gottlieb. No. 1,374,847; Apr. 12; v. 285; p. 325.
- Spark-plug. D. S. Henney. No. 1,392,829; Oct. 4.
- Spark-plug. G. L. Herz. No. 1,370,536; Mar. 8; v. 284; p. 193.
- Spark-plug. F. A. Homewood. No. 1,397,634; Nov. 22.
- Spark-plug. R. L. Hull. No. 1,388,343; Aug. 23; v. 289; p. 653.
- Spark-plug. M. B. Jacobson. No. 1,371,488; Mar. 15; v. 284; p. 440.
- Spark-plug. A. B. Kinzel. No. 1,375,098; Apr. 19; v. 285; p. 436.
- Spark-plug. I. Kodama. No. 1,368,036; Feb. 8; v. 283; p. 282.
- Spark-plug. J. E. Lehr. No. 1,370,655; Mar. 8; v. 284; p. 216.
- Spark-plug. O. M. Leich. No. 1,375,851; Apr. 26; v. 285; p. 611.
- Spark-plug. J. J. Lester, Jr. No. 1,401,799; Dec. 27.
- Spark-plug. J. A. Luther. No. 1,380,399; June 7; v. 287; p. 14.
- Spark-plug. G. Margolin. No. 1,397,321; Nov. 15.
- Spark-plug. M. M. McCoy. No. 1,395,923; Nov. 1.
- Spark-plug. T. G. McDougal. No. 1,386,883; Aug. 9; v. 289; p. 255.
- Spark-plug. W. W. McElrath, Jr. No. 1,386,127; Aug. 2; v. 289; p. 33.
- Spark-plug. E. H. Melendy. No. 1,377,715; May 10; v. 286; p. 311.
- Spark-plug. C. G. Minor. No. 1,397,535; Nov. 22.
- Spark-plug. R. W. Moore. No. 1,389,152; Aug. 30; v. 289; p. 867.
- Spark-plug. J. W. Nelson. No. 1,375,926; Apr. 26; v. 285; p. 626.
- Spark-plug. W. P. Orsinger. No. 1,384,914; July 19; v. 288; p. 473.
- Spark-plug. J. V. Osterhout. No. 1,371,431; Mar. 15; v. 284; p. 429.
- Spark-plug. C. G. Peirce. No. 1,397,901; Nov. 22.
- Spark-plug. W. B. Pohle. No. 1,391,691; Sept. 27; v. 290; p. 657.
- Spark-plug. A. K. Roberts. No. 1,377,854; May 10; v. 286; p. 339.
- Spark-plug. I. Rystedt. No. 1,371,058; Mar. 8; v. 284; p. 292.
- Spark-plug. H. Schwetger. No. 1,368,358; Feb. 15; v. 283; p. 394.
- Spark-plug. J. Sharp. No. 1,366,602; Jan. 25; v. 282; p. 624.
- Spark-plug. J. Sharp. No. 1,366,603; Jan. 25; v. 282; p. 624.
- Spark-plug. M. P. Sullivan. No. 1,373,682; Apr. 5; v. 285; p. 58.
- Spark-plug. H. Thomas. No. 1,381,252; June 14; v. 287; p. 229.
- Spark-plug. J. H. Townsend. No. 1,399,827; Dec. 13.
- Spark-plug. O. Trova. No. 1,384,413; July 12; v. 288; p. 289.
- Spark-plug. A. E. Watts. No. 1,375,807; Apr. 26; v. 285; p. 602.
- Spark-plug. C. B. Westcott. No. 1,369,311; Feb. 22; v. 283; p. 617.
- Spark-plug-adjusting device. J. O'Toole. No. 1,384,209; July 12; v. 288; p. 246.
- Spark-plug and ignition tester. W. S. Witter. No. 1,385,415; July 26; v. 288; p. 652.
- Spark-plug and making same. R. W. Moore. No. 1,371,924; Mar. 15; v. 284; p. 523.
- Spark-plug cleaner. J. T. Gomez. No. 1,391,471; Sept. 20; v. 290; p. 539.
- Spark-plug cleaner. J. F. Gonder. No. 1,389,651; Sept. 6; v. 290; p. 19.
- Spark-plug cleaner. E. G. La Voie. No. 1,387,414; Aug. 9; v. 289; p. 360.
- Spark-plug cleaner. G. Mellor. No. 1,378,182; May 17; v. 286; p. 454.
- Spark-plug coil. R. H. Whisler. No. 1,393,866; Oct. 18.
- Spark-plug-coil unit. R. H. Whisler. No. 1,395,375; Nov. 1.
- Spark-plug electrode. J. V. Osterhout. No. 1,373,907; Apr. 5; v. 285; p. 103.
- Spark-plug holder and tester, Combined. J. H. Marquardt. No. 1,383,476; July 5; v. 288; p. 45.
- Spark-plug intensifier. M. L. Dunbar. No. 1,366,251; Jan. 18; v. 282; p. 511.
- Spark-plug intensifier. A. A. Jackson. No. 1,375,253; Apr. 19; v. 285; p. 465.
- Spark-plug intensifier. J. M. Paul. No. 1,392,023; Sept. 27; v. 290; p. 726.
- Spark-plug, Non-fouling. P. J. Donavan. No. 1,372,489; Mar. 22; v. 284; p. 688.
- Spark-plug packing. R. R. Senour and L. T. White. No. 1,400,464; Dec. 13.
- Spark-plug, Self-cleaning. E. Kraft. No. 1,369,177; Feb. 22; v. 283; p. 592.
- Spark-plug terminal. E. A. Jones. No. 1,382,090; June 21; v. 287; p. 446.
- Spark-plug terminal and protector, Combined. E. H. Weber. No. 1,376,844; May 3; v. 286; p. 88.
- Spark-plug tester. H. L. Opsahl. No. 1,378,484; May 17; v. 286; p. 511.
- Spark-plug tester. G. Rosenbauer. No. 1,380,839; June 7; v. 287; p. 99.
- Spark-plug-testing and gap-adjusting device, Combination. J. C. Miller. No. 1,385,222; July 19; v. 288; p. 537.
- Spark-plug-testing attachment. J. E. Finn. No. 1,365,972; Jan. 18; v. 282; p. 456.
- Spark-plugs, Attachment for. A. R. Price. No. 1,397,017; Nov. 15.



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- Spark-plugs, Auxiliary sparking unit for. F. E. Wade. No. 1,394,426; Oct. 18.
- Spark-plugs, Device for cleaning. A. V. Pellet. No. 1,399,225; Dec. 6.
- Spark-plugs, Machine for cleaning. A. White. No. 1,395,376; Nov. 1.
- Spark-plugs, Protecting-shell for. I. R. Hicks. No. 1,388,709; Aug. 23; v. 289; p. 724.
- Spark-plugs, Spark-gap attachment for. J. S. Faulkner. No. 1,398,457; Nov. 29.
- Spark-plugs, Testing device for. G. S. P. Holland, Jr. No. 1,395,570; Nov. 1.
- Spark-retarder, Automatic. F. H. Smith. No. 1,368,581; Feb. 15; v. 283; p. 438.
- Spark-timer. L. R. Winters and O. E. Gibson. No. 1,366,994; Feb. 1; v. 283; p. 22.
- Spark-trouble locator. S. P. Langmaid and L. A. Walton. No. 1,376,022; Apr. 26; v. 285; p. 645.
- Sparkplug, H. V. J. Jouffret. No. 1,368,160; Feb. 8; v. 283; p. 307.
- Sparkplug, E. Leymarie. No. 1,378,122; May 17; v. 286; p. 443.
- Sparkplug, H. Singleton-Griesbach. No. 1,378,569; May 17; v. 286; p. 527.
- Sparkplug with self-cleaning electrodes. B. Scherer. No. 1,388,766; Aug. 23; v. 289; p. 736.
- Sparklers and the like, Safety-holder for. A. M. Bowie. No. 1,374,812; Apr. 12; v. 285; p. 318.
- Spear, Casing-. W. J. Sheehan. No. 1,383,345; July 5; v. 288; p. 18.
- Spectacle-case. O. B. Carson. No. 1,367,120; Feb. 1; v. 283; p. 47.
- Spectacle-clip. E. Vaughan. No. 1,377,862; May 10; v. 286; p. 341.
- Spectacle construction. A. E. Maynard. No. 1,386,068; Aug. 2; v. 289; p. 22.
- Spectacle-frame. S. J. Clulee. No. 1,384,303; July 12; v. 288; p. 266.
- Spectacle-frame. T. B. Jebb. No. 1,396,213; Nov. 8.
- Spectacle-frame. W. M. Updegrave and A. S. Ryesky. No. 1,381,603; June 14; v. 287; p. 294.
- Spectacle-frames, Clamp for adjusting. C. M. Haynes. No. 1,394,828; Oct. 25.
- Spectacle-holder. V. E. Duncanson. No. 1,391,074; Sept. 27; v. 290; p. 654.
- Spectacles. E. Barnes. No. 1,387,753; Aug. 16; v. 289; p. 480.
- Spectacles. W. P. Devine. No. 1,371,413; Mar. 15; v. 284; p. 425.
- Spectacles. L. Dunkelsberg. No. 1,374,287; Apr. 12; v. 285; p. 216.
- Spectacles, Manufacture of. J. H. Sutcliffe. No. 1,373,032; Mar. 29; v. 284; p. 837.
- Spectacles, Nose-guard for. W. G. Miller. No. 1,393,152; Oct. 11.
- Spectacles, Reversible temple member for. E. Reynolds. No. 1,394,863; Oct. 25.
- Speech and signals, Simultaneous transmission or reception of. A. H. Taylor. No. 1,376,051; Apr. 26; v. 285; p. 650.
- Speed alarm, Excess-. H. S. Dix, J. T. Pryor, and C. Coffey. No. 1,377,243; May 10; v. 286; p. 221.
- Speed-change device. T. R. Sturgeon. No. 1,374,614; Apr. 12; v. 285; p. 280.
- Speed-change-gear indicator, Variable. J. Gallimore. No. 1,379,757; May 31; v. 286; p. 899.
- Speed-change mechanism. M. C. Frins. No. 1,375,216; Apr. 19; v. 285; p. 459.
- Speed-changing mechanism. C. C. Blake. No. 1,399,737; Dec. 13.
- Speed-changing mechanism. O. Hill. No. 1,373,071; Mar. 29; v. 284; p. 844.
- Speed-changing mechanism. W. I. Wheeler. No. 1,380,619; June 7; v. 287; p. 56.
- Speed-changing mechanism. W. I. Wheeler. No. 1,396,151; Nov. 8.
- Speed-changing mechanism, Controller for. B. Schwartz. No. 1,370,609; Mar. 8; v. 284; p. 207.
- Speed-changing unit. C. H. Ramsey. No. 1,393,906; Oct. 18.
- Speed-control, Automatic. E. J. Crawford. No. 1,398,539; Nov. 29.
- Speed-control device. B. A. Dell. No. 1,371,147; Mar. 8; v. 284; p. 310.
- Speed-control device. P. O. Wood and H. L. Worman. No. 1,397,194; Nov. 15.
- Speed-control device, Automatic. T. H. Thomas. No. 1,381,947; June 21; v. 287; p. 420.
- Speed control for induction-motors. B. G. Lamme. No. 1,387,496; Aug. 16; v. 289; p. 428.
- Speed control, System of. E. J. Blake. No. 1,388,917; Aug. 30; v. 289; p. 820.
- Speed-controller. C. F. Rubsam. No. 1,383,667; July 5; v. 288; p. 85.
- Speed device, Variable. J. Doherty. No. 1,374,439; Apr. 12; v. 285; p. 246.
- Speed drive, Variable. H. T. Weaver. No. 1,370,389; Mar. 1; v. 284; p. 120.
- Speed gear, Hydraulic change-. W. B. Crofton. No. 1,370,290; Mar. 1; v. 284; p. 101.
- Speed-governor. W. A. Doble. No. 1,377,672; May 10; v. 286; p. 303.
- Speed-governor. W. Johnson. No. 1,371,767; Mar. 15; v. 284; p. 493.
- Speed-governor. E. E. Wickersham. No. 1,381,778; June 14; v. 287; p. 328.
- Speed indicating and recording instrument. H. J. S. Thomas. No. 1,377,293; May 10; v. 286; p. 231.
- Speed-indicating instrument. L. J. Grubman and G. A. Duden. No. 1,395,638; Nov. 1.
- Speed-indicating instrument or the like. H. W. Henke. No. 1,393,624; Oct. 11.
- Speed-indicator. J. R. C. Smith. No. 1,377,636; May 10; v. 286; p. 296.
- Speed-limiting device. J. B. Replogle. No. 1,366,263; Jan. 18; v. 282; p. 513.
- Speed mechanism, Automatic variable-. J. W. Droll. No. 1,372,871; Mar. 29; v. 284; p. 805.
- Speed mechanism, Change-of-. H. C. Pierle. No. 1,374,109; Apr. 5; v. 285; p. 142.
- Speed mechanism, Progressive and reversible change-. N. Gherassimoff. No. 1,381,866; June 14; v. 287; p. 345.
- Speed motor, Constant-. C. I. Hall. No. 1,386,861; Aug. 9; v. 289; p. 250.
- Speed multiplying and reducing gear. H. Philippeau. No. 1,368,570; Feb. 15; v. 283; p. 435.
- Speed-recorder for vehicles or locomotives. F. W. G. Bruhn. No. 1,385,342; July 19; v. 288; p. 560.
- Speed-reducer. D. H. Hatlee. No. 1,365,492; Jan. 11; v. 282; p. 323.
- Speed-reducing mechanism. J. Janicki. No. 1,382,289; June 21; v. 287; p. 484.
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- Speed-regulating apparatus. V. A. Fynn. No. 1,387,048; Aug. 9; v. 289; p. 288.
- Speed-regulating apparatus. V. A. Fynn. No. 1,397,278; Nov. 15.
- Speed-regulating device. G. J. Neth. No. 1,392,963; Oct. 11.
- Speed regulation. H. F. Smith. No. 1,381,513; June 14; v. 287; p. 277.
- Speed-responsive device. W. M. Fulton. No. 1,384,314; July 12; v. 288; p. 268.
- Speed-signal, Audible. R. A. Neisz. No. 1,371,048; Mar. 8; v. 284; p. 291.
- Speed-signals, Electric switch for operating automobile. A. W. Olds. No. 1,394,111; Oct. 18.
- Speed spindle, High-. J. W. Parker. No. 1,392,210; Sept. 27; v. 290; p. 762.
- Speed-table. L. L. Kaiser. No. 1,401,785; Dec. 27.
- Speed-transmission apparatus, Variable. J. A. Wilkin. No. 1,386,388; Aug. 2; v. 289; p. 83.
- Speed transmission, Dual-. K. E. Ahlberg. No. 1,381,051; June 7; v. 287; p. 140.
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- Speed-transmission mechanism, Variable-. L. J. Campbell. No. 1,388,548; Aug. 23; v. 289; p. 693.
- Speed transmission mechanism, Variable. L. J. Campbell. No. 1,394,607; Oct. 25.
- Speed-transmission mechanism, Variable-. D. C. Slater. No. 1,383,159; June 28; v. 287; p. 703.
- Speed transmission, Variable-. E. Nielsen. No. 1,380,006; May 31; v. 286; p. 946.
- Speed transmission, Variable-. O. A. Ross. No. 1,373,099; Mar. 29; v. 284; p. 849.
- Speed transmission, Variable-. J. Young. No. 1,379,504; May 24; v. 286; p. 778.
- Speedometer. B. M. Davis. No. 1,401,396; Dec. 27.
- Speedometer. J. D. Robertson. No. 1,386,953; Aug. 9; v. 289; p. 269.
- Speedometer. C. G. Smith. No. 1,384,809; July 19; v. 288; p. 452.
- Speedometer. A. Speight. No. 1,378,428; May 17; v. 286; p. 500.
- Speedometer for automobiles. F. H. Rittenour. No. 1,375,761; Apr. 26; v. 285; p. 594.
- Speedometer, Indicating and recording. K. Yoshimaga. No. 1,380,510; June 7; v. 287; p. 35.
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- Speedometer, Magnetic. A. C. Wood. No. 1,400,198; Dec. 13.
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- Speedometers, Driving mechanism for. P. Nash. No. 1,375,009; Apr. 19; v. 285; p. 418.
- Spelter-breaker. J. R. Coe. No. 1,364,717; Jan. 4; v. 282; p. 129.
- Spherical articles, Machine for making. G. J. Thompson. No. 1,374,966; Apr. 19; v. 285; p. 410.
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- Spigot. A. C. Stoll. No. 1,381,598; June 14; v. 287; p. 593.
- Spike. H. A. Cornel. No. 1,390,275; Sept. 13; v. 290; p. 236.
- Spike. C. B. Fitzpatrick. No. 1,369,798; Mar. 1; v. 284; p. 8.
- Spike. W. Rautenstrauch. No. 1,367,203; Feb. 1; v. 283; p. 64.
- Spike. M. K. Sessler. No. 1,380,423; June 7; v. 287; p. 19.
- Spike. M. K. Sessler. No. 1,380,424; June 7; v. 287; p. 19.
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- Spike-puller. J. B. Erickson. No. 1,380,196; May 31; v. 286; p. 982.
- Spike-puller. J. B. Gillis, R. J. Rhodes, and H. J. Lowe. No. 1,395,956; Nov. 1.
- Spike-puller. W. O. Peavy. No. 1,364,451; Jan. 4; v. 282; p. 79.
- Spike-puller. F. Woodcock. No. 1,396,615; Nov. 8.
- Spike-puller, Combination. J. F. Fenton. No. 1,395,266; Nov. 1.
- Spike-straightener. A. W. Tabert and J. E. Tisdale. No. 1,389,228; Aug. 30; v. 289; p. 882.
- Spindle. *See*—  
     Auto-spindle. Serving-spindle.  
     Bearing-spindle. Worm-screw spindle.
- Spindle. E. A. Cunniff. No. 1,394,668; Oct. 25.
- Spindle. J. B. Nanteau. No. 1,401,485; Dec. 27.
- Spindle. H. A. Tiffany. No. 1,378,497; May 17; v. 286; p. 513.
- Spindle-coupling, Flexible. S. P. Sharples. No. 1,373,206; Mar. 29; v. 284; p. 871.
- Spindle-coupling, Flexible. D. T. Sharples. No. 1,373,772; Apr. 5; v. 285; p. 75.
- Spindle machine-tool, Multiple. G. E. Randles. No. 1,396,781; Nov. 15.
- Spindle-mounting. P. Levasseur. No. 1,382,990; June 28; v. 287; p. 671.
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- Spindle-tightener. J. Mattson. No. 1,401,270; Dec. 27.
- Spindle-whirl lock. H. Slater. No. 1,369,907; Mar. 1; v. 284; p. 29.
- Spindles, Driving mechanism for machine. F. O. Farwell. No. 1,393,104; Oct. 11.
- Spindles, Mounting for grinding-machine. C. H. Norton. No. 1,382,606; June 21; v. 287; p. 544.
- Spinner. C. H. Kewell. No. 1,389,763; Sept. 6; v. 290; p. 41.
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- Spinning and twisting machines, Doffing apparatus for. F. Graf. No. 1,384,449; July 12; v. 288; p. 298.
- Spinning apparatus. Artificial-silk. J. Clayton. No. 1,399,690; Dec. 6.
- Spinning-box mounting. H. Crewdson. No. 1,381,805; June 14; v. 287; p. 333.
- Spinning, doubling, and twisting yarns or threads of fibrous substances. Apparatus for. T. Whitehead. No. 1,389,921; Sept. 6; v. 290; p. 74.
- Spinning-frames, Cap-winding attachment for. K. Stewart. No. 1,400,009; Dec. 13.
- Spinning-frames, Drawing-roll mechanism for. C. H. Johnson. No. 1,396,122; Nov. 8.
- Spinning-frames, Front-roll stand for. D. C. Leonard and A. P. Greer. No. 1,395,284; Nov. 1.
- Spinning-frames, Separator-retainer for. C. M. Rogers. No. 1,370,154; Mar. 1; v. 284; p. 75.
- Spinning machines, Apparatus for the production of weft spools or cops on weft ring. M. Chané. No. 1,377,747; May 10; v. 286; p. 317.
- Spinning-machines, Graphic recording mechanism for. S. A. Gasda and D. R. Cahill. No. 1,397,578; Nov. 22.
- Spinning machines, Method of and apparatus for the production of weft or cops on weft ring. M. Chané. No. 1,377,746; May 10; v. 286; p. 317.
- Spinning-machines, Motor-support for. C. Corley. No. 1,364,076; Jan. 4; v. 282; p. 5.
- Spinning-machines, Thread-board cleaner for. E. R. Brock. No. 1,369,961; Mar. 1; v. 284; p. 39.
- Spinning-machines, Thread-breaking device for. F. Q. Hartman. No. 1,397,283; Nov. 15.
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- Spinning-mules, Reversible transmission for. J. H. Ryalls. No. 1,396,883; Nov. 15.
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- Spinning or twisting machine, Ring. J. C. Potter. No. 1,401,729; Dec. 27.
- Spinning or winding machine. A. E. Rhoades. No. 1,397,905; Nov. 22.
- Spinning or winding machines, Builder-motion for. A. E. Rhoades. No. 1,367,670; Feb. 8; v. 283; p. 313.
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- Spinning-ring and ball-bearing traveler therefor. C. J. Tarrant. No. 1,372,844; Mar. 29; v. 284; p. 798.
- Spinning-ring carrier. T. Whitehead. No. 1,399,418; Dec. 6.
- Spinning tops, &c., Device for. A. E. Sandstrom. No. 1,384,972; July 19; v. 288; p. 485.
- Spinning, twisting, and like frames, Doffing mechanism of. T. A. and H. A. Boyd. No. 1,369,613; Feb. 22; v. 283; p. 677.
- Spinning, twisting, doubling, and like frames, Thread-guide of. G. E. Bull. No. 1,392,743; Oct. 4.
- Spiral casing. E. C. Hutchinson and E. W. Anderson. No. 1,380,065; May 31; v. 286; p. 956.
- Spiral puffs, Machine for producing. C. M. Anderson. No. 1,369,723; Feb. 22; v. 283; p. 698.
- Spiral-spring coupling. R. A. Smith. No. 1,365,957; Jan. 18; v. 282; p. 454.
- Spittoon. V. C. Holman. No. 1,395,185; Oct. 25.
- Splice-carrying-machine element. A. J. Fisher. No. 1,391,728; Sept. 27; v. 290; p. 665.
- Splice-bars, Slotting-machine for. J. A. Dyblle. No. 1,381,110; June 14; v. 287; p. 203.
- Splice-curing method and apparatus. E. Fetter. No. 1,364,362; Jan. 4; v. 282; p. 61.
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- Splints, Machine for rounding. W. W. Tainter. No. 1,366,035; Jan. 18; v. 282; p. 468.
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- Spoke-nipples, Die for making. J. H. Graham and M. S. Foley. No. 1,395,181; Oct. 25.
- Spoke-wheels, Clamp for. G. L. Schofield. No. 1,378,563; May 17; v. 286; p. 526.
- Spoked wheels, Detachable cable-drum for. M. W. Wilson. No. 1,381,152; June 14; v. 287; p. 211.
- Sponge, Fountain. G. F. Strieff. No. 1,367,758; Feb. 8; v. 283; p. 230.
- Sponge-holder. J. E. S. James. No. 1,389,509; Aug. 30; v. 289; p. 938.
- Spool. O. H. Heinig. No. 1,384,562; July 12; v. 288; p. 320.
- Spool. E. J. Hubbard. No. 1,365,406; Jan. 11; v. 282; p. 306.
- Spool. D. V. Vaughan. No. 1,396,481; Nov. 8.
- Spool-head. C. H. Forney. No. 1,388,635; Aug. 23; v. 289; p. 710.
- Spool and flux-container, Soldering-wire. A. C. Recker. No. 1,366,278; Jan. 18; v. 282; p. 516.
- Spool-holder. E. L. Cetwick. No. 1,364,249; Jan. 4; v. 282; p. 39.
- Spool-machine. H. N. Pierce. No. 1,365,540; Jan. 11; v. 282; p. 332.
- Spool manufacture. R. S. Bolger. No. 1,366,336; Jan. 18; v. 282; p. 527.
- Spool or bobbin, Textile. H. D. Clinton. No. 1,395,038; Oct. 25.
- Spool-rack. R. Black. No. 1,377,052; May 3; v. 286; p. 128.
- Spool-shifting mechanism. H. Doll, J. Lengyel, and J. Doll. No. 1,370,522; Mar. 8; v. 284; p. 190.
- Spool-steward. R. W. Smith. No. 1,395,157; Oct. 25.
- Spools, &c., Holder for. A. J. Smith. No. 1,395,155; Oct. 25.
- Spoolers, Tension device and bobbin-support for. L. T. Houghton. No. 1,364,762; Jan. 4; v. 282; p. 138.
- Spooling machine, Fine-wire. A. F. Kneen. No. 1,370,321; Mar. 1; v. 284; p. 107.
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- Spoon-holder. A. P. Rohmiller. No. 1,393,574; Oct. 11.
- Spoon-holder. M. C. Stearns. No. 1,369,945; Mar. 1; v. 284; p. 36.
- Spoon-molding machine. J. H. Mulholland. No. 1,372,535; Mar. 22; v. 284; p. 697.
- Spoon, Safety medicine. H. Toler. No. 1,390,475; Sept. 13; v. 290; p. 275.
- Spoon, Trolling. E. C. Selleck. No. 1,400,629; Dec. 20.
- Spoons and other flatware articles out of sheet material, Machine for forming. G. P. Mallory. No. 1,378,707; May 17; v. 286; p. 555.
- Spoons, forks, and the like, Attachment for. H. Manland. No. 1,371,319; Mar. 15; v. 284; p. 406.
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- Spotlight. E. D. Crompt. No. 1,372,066; Mar. 22; v. 284; p. 607.
- Spotlight. E. H. Howard. No. 1,384,896; July 19; v. 288; p. 469.
- Spotlight. E. H. Howard. No. 1,399,120; Dec. 6.
- Spotlight, and incendiary bullet, Armor-piercing. W. L. Clay. No. 1,380,773; June 7; v. 287; p. 85.
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- Spotlight-hanger. H. H. Reed. No. 1,377,927; May 10; v. 286; p. 286; p. 354.
- Spotlight-support. W. S. Evans. No. 1,390,350; Sept. 13; v. 290; p. 250.
- Spotlight-support. A. Falk. No. 1,393,678; Oct. 11.
- Spotlights, Mounting for. W. L. Kaufmann. No. 1,381,313; June 14; v. 287; p. 240.
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- Spout, Distributing. F. W. Cooley. No. 1,395,947; Nov. 1.
- Spout, Pouring. A. L. Forsberg. No. 1,397,952; Nov. 22.
- Spout, Pouring. W. E. Jehn. No. 1,366,006; Jan. 18; v. 282; p. 463.
- Spout-support. J. Jenkins. No. 1,367,548; Feb. 8; v. 283; p. 190.
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- Spray-head. J. F. Kirgan. No. 1,381,646; June 14; v. 287; p. 303.
- Spray-head. J. F. Kirgan. No. 1,383,404; July 5; v. 288; p. 31.
- Spray-head. A. C. Miller and E. H. Perry. No. 1,401,176; Dec. 27.
- Spray-nozzle and distributing liquid. L. H. Parker and C. H. Lardon. No. 1,381,734; June 14; v. 287; p. 320.
- Spray-plate, Composite. J. Scheminger, Jr. No. 1,383,862; July 5; v. 288; p. 125.
- Spray, Tree-. B. W. Gerhart. No. 1,398,505; Nov. 29.
- Sprayer. R. A. Bachmann. No. 1,397,851; Nov. 22.
- Sprayer. J. T. Plumer. No. 1,390,310; Sept. 13; v. 290; p. 242.
- Sprayer, Air-blast. A. B. Champlin. No. 1,396,319; Nov. 8.
- Sprayers, Air-charging pump for. H. E. Brandt. No. 1,395,086; Oct. 25.
- Sprayer attachment. J. Barrett. No. 1,374,274; Apr. 12; v. 285; p. 214.
- Sprayer, Blending. J. B. Shreeve. No. 1,364,846; Jan. 4; v. 282; p. 154.
- Sprayer device. J. Clark. No. 1,387,352; Aug. 9; v. 289; p. 348.
- Sprayer paddle-wheel. A. Holmström. No. 1,391,057; Sept. 20; v. 290; p. 456.
- Spraying apparatus. C. P. Price. No. 1,387,071; Aug. 9; v. 289; p. 293.
- Spraying apparatus, Tractor-propelled. S. J. Miller. No. 1,377,847; May 10; v. 286; p. 338.
- Spraying device. C. H. Baker. No. 1,364,424; Jan. 4; v. 282; p. 73.
- Spraying device. H. C. Baumgardner. No. 1,384,296; July 12; v. 288; p. 264.
- Spraying device. J. Ferris. No. 1,370,687; Mar. 8; v. 284; p. 223.
- Spraying device. W. C. Walte. No. 1,373,372; Mar. 29; v. 284; p. 904.
- Spraying-machine. H. C. Baumgardner. No. 1,377,654; May 10; v. 286; p. 300.
- Spraying machine, Disinfectant-dust-. O. and A. Olson. No. 1,368,649; Feb. 15; v. 283; p. 450.
- Spraying-machine, Portable. J. S. Davis. No. 1,371,412; Mar. 15; v. 284; p. 425.
- Spraying mechanism. H. F. Smith. No. 1,397,557; Nov. 22.
- Spreader and roller, Combined. H. C. Foster. No. 1,401,149; Dec. 27.
- Spreader, Roll-. A. W. Nelson. No. 1,398,269; Nov. 29.
- Spreader, Spring-leaf. H. C. Schuster. No. 1,390,167; Sept. 6; v. 290; p. 122.
- Spreading device. I. Evans. No. 1,399,381; Dec. 6.
- Spreading device. D. Garst. No. 1,396,106; Nov. 8.
- Spreading device. J. R. Knappenberger. No. 1,368,165; Feb. 8; v. 283; p. 308.
- Spring: See—
- Air-spring. Mounting-spring.
- Automobile-spring. Pneumatic spring.
- Auxiliary spring. Reinforced spring.
- Bed-spring. Rubber spring.
- Cantaliver front spring. Scale-spring.
- Coil-spring. Self-lubricating spring.
- Door-spring. Shock-absorbing spring.
- Foldable bed-spring. Torsion-spring.
- Frictionless spring. Trap-spring.
- Furniture-spring. Vehicle-spring.
- Leaf-spring. Wagon-spring.
- Spring. H. B. Bagg. No. 1,388,913; Aug. 30; v. 289; p. 820.
- Spring. C. A. Brock. No. 1,380,523; June 7; v. 287; p. 38.
- Spring. R. E. Gaines. No. 1,393,618; Oct. 11.
- Spring. F. F. Hoeffle. No. 1,389,303; Aug. 30; v. 289; p. 898.
- Spring. W. Irwin. No. 1,385,919; July 26; v. 288; p. 754.
- Spring. A. Tisman. No. 1,381,255; June 14; v. 287; p. 230.
- Spring. M. J. Udy and F. C. Nicholson. No. 1,383,175; June 28; v. 287; p. 706.
- Spring. A. G. Wicker. No. 1,400,253; Dec. 13.
- Spring and making same, Leaf-. T. L. R. d'Orville. No. 1,381,014; June 7; v. 287; p. 133.
- Spring and shock-absorber. S. A. Kost and A. L. Daniel. No. 1,380,722; June 7; v. 287; p. 76.
- Spring and shock-absorber, Combination. H. A. Becker. No. 1,398,929; Nov. 29.
- Spring attachment. Auxiliary. A. R. Groff. No. 1,385,993; Aug. 2; v. 289; p. 6.
- Spring-bar connection device, Front-. R. M. Roof. No. 1,381,433; June 14; v. 287; p. 263.
- Spring-barrel construction. F. J. Mantel. No. 1,387,794; Aug. 16; v. 289; p. 488.
- Spring-board. J. Tors. No. 1,384,580; July 12; v. 288; p. 824.
- Spring-bolt, Lubricating. H. M. Naugle. No. 1,389,374; Aug. 30; v. 289; p. 912.
- Spring-bumper. H. W. Dyer. No. 1,393,354; Oct. 11.
- Spring-clip. G. B. Dusingerre. No. 1,367,805; Feb. 8; v. 283; p. 240.
- Spring-clip. W. Halket. No. 1,387,978; Aug. 16; v. 289; p. 523.
- Spring-compressor and spring-clamp, Combination. J. W. Harsley and M. P. Apgar. No. 1,389,657; Sept. 6; v. 290; p. 20.
- Spring-couplings, Method and apparatus for forming. R. Chilton. No. 1,379,963; May 31; v. 286; p. 938.
- Spring cover and lubricator. G. H. Taber. No. 1,387,024; Aug. 9; v. 289; p. 283.
- Spring covering and oiler, Demountable. G. B. Price. No. 1,381,010; June 7; v. 287; p. 132.
- Spring, Cushion-. G. P. Johnson. No. 1,395,421; Nov. 1.
- Spring for pin-setting machines. J. Gessert. No. 1,393,110; Oct. 11.
- Spring-link. L. J. Litchfield. No. 1,397,431; Nov. 15.
- Spring lock-washer. A. C. Bridge. No. 1,374,054; Apr. 5; v. 285; p. 131.
- Spring-manipulating tool. J. Madden and E. J. Canfield. No. 1,386,721; Aug. 9; v. 289; p. 221.
- Spring-mattress and support therefor. B. H. Jones. No. 1,385,174; July 19; v. 288; p. 528.
- Spring mechanism. H. E. Spangler. No. 1,371,124; Mar. 8; v. 284; p. 305.
- Spring-motor. E. R. Akerlund. No. 1,385,351; July 26; v. 288; p. 639.
- Spring-motor. W. R. Everett. No. 1,387,480; Aug. 16; v. 289; p. 447.
- Spring-motor. A. F. Loebker. No. 1,389,953; Sept. 6; v. 290; p. 80.
- Spring-motor. H. G. Saal. No. 1,393,167; Oct. 11.
- Spring-motor. A. Vasselli. No. 1,379,140; May 24; v. 286; p. 709.
- Spring-motor and winding means therefor. E. S. Marsh. No. 1,380,111; May 31; v. 286; p. 966.
- Spring-motor indicator. T. J. Masse. No. 1,366,537; Jan. 25; v. 282; p. 611.
- Spring-motors, Indicating mechanism for. V. V. Veen-schoten. No. 1,400,644; Dec. 20.
- Spring-motors, Power-indicator for. F. Ritchie. No. 1,381,847; June 14; v. 287; p. 341.
- Spring-motors, Winding means for. J. J. Phillips. No. 1,399,790; Dec. 13.
- Spring-oiler. A. E. Johnson and L. H. Taffee. No. 1,370,588; Mar. 8; v. 284; p. 203.
- Spring-pad and brake-operating cam-support, Combined. A. G. Herreshoff. No. 1,369,028; Feb. 22; v. 283; p. 563.
- Spring-retarding device. E. V. Hartford. No. 1,401,252; Dec. 27.
- Spring-ring. C. A. Goozy. No. 1,399,207; Dec. 6.
- Spring-ring. H. Wachenheimer. No. 1,386,746; Aug. 9; v. 289; p. 226.
- Spring structure. A. J. Kreuzkamp. No. 1,372,702; Mar. 29; v. 284; p. 770.
- Spring structure. W. R. Smith. Nos. 1,399,028-30; Dec. 6.
- Spring structure. D. H. Van Hove. No. 1,387,743; Aug. 16; v. 289; p. 477.
- Spring structure. D. H. Van Hove. No. 1,387,744; Aug. 16; v. 289; p. 478.
- Spring structure, Coiled-. W. B. Foster. No. 1,372,129; Mar. 22; v. 284; p. 619.
- Spring structures, Foundation for. D. H. Van Hove. No. 1,378,921; May 24; v. 286; p. 668.
- Spring suspension. E. Favary. No. 1,381,624; June 14; v. 287; p. 298.
- Spring suspension. A. E. Frey. No. 1,396,365; Nov. 8.
- Spring suspension. N. L. Olson. No. 1,380,408; June 7; v. 287; p. 16.
- Spring suspension. G. F. Voight. No. 1,381,523; June 14; v. 287; p. 279.
- Spring suspension, Air-. R. Liebau. No. 1,395,438; Nov. 1.
- Spring suspension system. A. F. Shore. No. 1,392,603; Oct. 4.
- Spring-switch. I. K. Dixon. No. 1,382,960; June 28; v. 287; p. 666.
- Spring-tension gage. W. H. D. Ford. No. 1,383,713; July 5; v. 288; p. 95.
- Spring-tensioning mechanism. E. E. Weaver. No. 1,401,842; Dec. 27.
- Spring toggle-bolt. J. Kennedy. No. 1,370,319; Mar. 1; v. 284; p. 107.
- Spring-wheel. W. J. Beisel. No. 1,378,516; May 17; v. 286; p. 511.
- Spring-wheel. F. Bentley. No. 1,379,517; May 24; v. 286; p. 780.
- Spring-wheel. H. D. Bowman. No. 1,376,795; May 8; v. 286; p. 78.
- Spring-wheel. H. L. Bush and A. J. Bryan. No. 1,392,813; Oct. 4.
- Spring-wheel. G. Casalis. No. 1,366,118; Jan. 18; v. 282; p. 484.
- Spring-wheel. M. N. Clay. No. 1,372,641; Mar. 22; v. 284; p. 717.
- Spring-wheel. A. Gunsallus. No. 1,370,435; Mar. 1; v. 284; p. 129.
- Spring-wheel. H. Hayman. No. 1,386,927; Aug. 9; v. 289; p. 264.
- Spring-wheel. J. A. Johnson. No. 1,369,814; Mar. 1; v. 284; p. 12.
- Spring-wheel. M. Kosteck. No. 1,391,740; Sept. 27; v. 290; p. 667.



- Spring-wheel. J. A. Livings. No. 1,397,839; Nov. 22.  
Spring-wheel. M. Mathlesen. No. 1,367,917; Feb. 8; v. 283; p. 261.  
Spring-wheel. D. J. McCluskey. No. 1,399,220; Dec. 6.  
Spring-wheel. A. F. McGrath. No. 1,393,630; Oct. 11.  
Spring-wheel. H. Myers. No. 1,384,847; July 19; v. 288; p. 460.  
Spring-wheel. W. F. Norris. No. 1,397,448; Nov. 15.  
Spring-wheel. A. E. Paige. No. 1,376,726; May 3; v. 286; p. 65.  
Spring-wheel. J. D. Short. No. 1,387,077; Aug. 9; v. 289; p. 294.  
Spring-wheel. W. H. Smith. No. 1,392,859; Oct. 4.  
Spring-wheel. A. Wallace. No. 1,379,665; May 31; v. 286; p. 882.  
Spring-winding machine. F. H. Sleeper. No. 1,368,297; Feb. 15; v. 283; p. 382.  
Springs, Clamp for broken. S. H. Brady. No. 1,384,591; July 12; v. 288; p. 826.  
Springs, Extension-perch for. C. W. Van Brunt and L. Edwards. No. 1,374,617; Apr. 12; v. 285; p. 281.  
Springs, Lubricating and protecting jacket for. E. E. Bouchard. No. 1,399,248; Dec. 6.  
Springs, Machine for making leaf. T. L. R. d'Orville. No. 1,375,038; Apr. 19; v. 285; p. 425.  
Springs, Means for greasing. R. White. No. 1,378,159; May 17; v. 286; p. 450.  
Springs, Means for lubricating leaf. J. I. Richey. No. 1,399,152; Dec. 6.  
Springs, Means for making. J. C. Monteith and L. A. Frayer. No. 1,387,934; Aug. 16; v. 289; p. 515.  
Springs, Tension-regulating device for. O. Woodward. No. 1,388,230; Aug. 23; v. 289; p. 630.  
Springs, Tool for compressing valve. H. S. Jillson. No. 1,384,958; July 19; v. 288; p. 482.  
Sprinkler. *See—*  
Automatic sprinkler. Lawn-sprinkler.  
Fire-extinguishing sprinkler. Road-sprinkler.  
Garden-sprinkler. Toy sprinkler.  
Traveling lawn-sprinkler.  
Sprinkler. J. Carlson. No. 1,380,769; June 7; v. 287; p. 85.  
Sprinkler. O. F. Engel. No. 1,400,533; Dec. 20.  
Sprinkler, Automatic. R. W. Newton. No. 1,392,593; Oct. 4.  
Sprinkler-head. E. F. Hess. No. 1,376,767; May 3; v. 286; p. 73.  
Sprinkler-head. G. O. Liljegen. No. 1,376,104; Apr. 26; v. 285; p. 660.  
Sprinkler-head. O. J. Lubbock; No. 1,370,764; Mar. 1; v. 284; p. 134.  
Sprinkler-head. W. C. Penty. No. 1,385,392; July 26; v. 288; p. 647.  
Sprinkler-head shut-off. J. Davidson. No. 1,379,617; May 31; v. 286; p. 874.  
Sprinkler, Lawn. J. D. Sullivan. No. 1,401,009; Dec. 20.  
Sprinkler system, Automatic. A. J. Loepsinger. No. 1,378,249; May 17; v. 286; p. 466.  
Sprinkler system, Tank for. E. C. Maxwell. No. 1,370,661; Mar. 8; v. 284; p. 217.  
Sprinkling device. B. Gomez. No. 1,373,324; Mar. 29; v. 284; p. 895.  
Sprinkling device. E. E. Thomas. No. 1,368,416; Feb. 15; v. 283; p. 405.  
Sprinkling devices, Sprinkler-head for automatic. J. Hartley. No. 1,381,551; June 14; v. 287; p. 285.  
Sprinkling-machine. T. P. Prestgard. No. 1,388,440; Aug. 23; v. 289; p. 673.  
Sprinkling-pot. G. L. Squire. No. 1,366,967; Feb. 1; v. 283; p. 17.  
Sprocket-chain guide. I. N. Babbitt. No. 1,395,330; Nov. 1.  
Sprocket gear-wheel. F. L. Morse. No. 1,386,272; Aug. 2; v. 289; p. 62.  
Spue-former. E. I. Rosheim. No. 1,387,558; Aug. 16; v. 289; p. 441.  
Spud-wrench. C. G. Tengdin. No. 1,369,143; Feb. 22; v. 283; p. 586.  
Spudding-shoe. G. B. McDonell. No. 1,373,253; Mar. 29; v. 284; p. 880.  
Spur. P. M. Kelly. No. 1,397,966; Nov. 22.  
Square. A. Capitano. No. 1,383,073; June 28; v. 287; p. 687.  
Square. F. Matson. No. 1,394,323; Oct. 18.  
Square and bevel, Adjustable. B. F. Curry. No. 1,366,878; Jan. 25; v. 282; p. 679.  
Square and protractor, Combined fixed-angle. A. H. Helden. No. 1,365,991; Jan. 18; v. 282; p. 460.  
Square, Centering. B. Summers. No. 1,373,367; Mar. 29; v. 284; p. 902.  
Square, Collapsible. A. E. Odmark. No. 1,377,917; May 10; v. 286; p. 352.  
Square, Combination. H. Simon. No. 1,388,612; Aug. 23; v. 289; p. 706.  
Square, Folding. J. McFadden. No. 1,400,617; Dec. 20.  
Square for plumbers and steamfitters. Pipe-measuring. A. C. Rodriguez. No. 1,400,626; Dec. 20.  
Square, Miter. R. A. Breul. Nos. 1,374,815-16; Apr. 12; v. 285; p. 319.  
Square, Try. J. T. Campbell. No. 1,379,849; May 31; v. 286; p. 917.  
Squares, Attachment for. J. D. Boz. No. 1,399,685; Dec. 6.  
Squeegee. W. J. Dennis. No. 1,375,682; Apr. 26; v. 285; p. 580.  
Squeegee. J. F. Nelson. No. 1,395,863; Nov. 1.  
Squirrel-cage induction-motors and securing the winding thereto, Rotor for. J. E. Fries. No. 1,371,233; Mar. 15; v. 284; p. 388.  
Squirt-can. G. A. Viemeister. No. 1,372,053; Mar. 22; v. 284; p. 605.  
Stable. J. G. Shodron. No. 1,379,725; May 31; v. 286; p. 893.  
Stack-former. D. M. Graham. No. 1,381,868; June 14; v. 287; p. 345.  
Stack-former. D. M. Graham. No. 1,381,869; June 14; v. 287; p. 345.  
Stacks, Forming. W. Jacobs. No. 1,366,387; Jan. 25; v. 282; p. 580.  
Stacked formation, Apparatus for unloading articles in. R. C. Penfield. No. 1,371,392; Mar. 15; v. 284; p. 421.  
Stacker. O. W. Bennett. No. 1,399,242; Dec. 6.  
Stacker. J. A. Cooper. No. 1,368,121; Feb. 8; v. 283; p. 299.  
Stacker. L. E. La Bombard. No. 1,382,788; June 28; v. 287; p. 633.  
Stacker, Extension swinging. G. L. Murphy. No. 1,395,512; Nov. 1.  
Stacker, Headed-grain. J. A. Schowalter. No. 1,398,204; Nov. 22.  
Stacker hood, Pneumatic. A. P. Determann. No. 1,394,812; Oct. 25.  
Stackers, Back-stop attachment for straw. W. W. Carlson. No. 1,376,251; Apr. 26; v. 285; p. 688.  
Stacking machine, Box-cover. D. C. Laughton. No. 1,364,562; Jan. 4; v. 282; p. 99.  
Stacking mechanism. T. Lund. No. 1,381,318; June 14; v. 287; p. 241.  
Stadia-rod. E. H. Schwier. No. 1,381,023; June 7; v. 287; p. 135.  
Staff-exchange box. C. C. Farmer. No. 1,400,592; Dec. 20.  
Stage-costume appliance. H. Skremka. No. 1,398,158; Nov. 22.  
Stage effects, Means for producing theatrical. G. W. Hanlon. No. 1,365,989; Jan. 18; v. 282; p. 460.  
Stage effects, Means for producing theatrical. G. W. Hanlon. No. 1,365,990; Jan. 18; v. 282; p. 460.  
Stage illusions, Apparatus for producing. G. Rogees and N. E. Polytes. No. 1,391,854; Sept. 27; v. 290; p. 690.  
Stage, Shifting. C. W. Clodfelter. No. 1,384,180; July 12; v. 288; p. 240.  
Staging-support. M. F. Sykes. No. 1,395,308; Nov. 1.  
Stair-rod. W. A. Burns. No. 1,397,618; Nov. 22.  
Stair structure. A. J. Hall. No. 1,385,209; July 19; v. 288; p. 535.  
Stairway. W. A. Davis. No. 1,388,329; Aug. 23; v. 289; p. 650.  
Stairway-block and stairways made therefrom. F. E. Walters. No. 1,370,718; Mar. 8; v. 284; p. 229.  
Stairway construction, Concrete. E. C. Swindler. No. 1,369,493; Feb. 22; v. 283; p. 653.  
Stairway-trap. J. Hicks. No. 1,380,295; May 31; v. 286; p. 1001.  
Stairways, Carpet or the like mounting for. C. D. Armstrong. No. 1,382,263; June 21; v. 287; p. 478.  
Stake. E. Olson. No. 1,392,206; Sept. 27; v. 290; p. 761.  
Stake. G. B. Robertson. No. 1,381,746; June 14; v. 287; p. 322.  
Stake-holding device. T. F. Cullinan. No. 1,383,986; July 5; v. 288; p. 151.  
Stake-lock. R. Dymock. No. 1,368,907; Feb. 15; v. 283; p. 501.  
Stake-socket. F. W. Bower. No. 1,365,084; Jan. 11; v. 282; p. 244.  
Stalk-cutter and soil-pulverizer, Combined. A. Hobson. No. 1,377,073; May 3; v. 286; p. 132.  
Stalk-cutter attachment. D. and A. Kinzer. No. 1,377,417; May 10; v. 286; p. 255.  
Stalk-cutting machine. E. S. Forney. No. 1,375,582; Apr. 19; v. 285; p. 528.  
Stalk puller and grinder. O. T. Jones. No. 1,379,571; May 24; v. 286; p. 790.  
Stall. J. K. Putt. No. 1,385,273; July 19; v. 288; p. 547.  
Stall, Animal. R. Miller. No. 1,373,904; Apr. 5; v. 285; p. 102.  
Stall attachment. M. J. Sanders. No. 1,399,659; Dec. 6.  
Stall, Cattle. C. M. Stevenson. No. 1,367,515; Feb. 1; v. 283; p. 126.  
Stall construction. C. M. Stevenson. No. 1,373,458; Apr. 5; v. 285; p. 15.  
Stall, Cow. J. M. B. Lewis. No. 1,379,769; May 31; v. 286; p. 901.  
Stalls, Feed-door for. E. Houle. No. 1,381,559; June 14; v. 287; p. 286.  
Stamp. A. O. Knight. No. 1,369,671; Feb. 22; v. 283; p. 688.  
Stamp-affixer. W. F. Schweiger. No. 1,379,651; May 31; v. 286; p. 880.  
Stamp affixer, Postage. C. L. Frederick. No. 1,371,677; Mar. 15; v. 284; p. 477.  
Stamp, Band-dating. C. S. Ellis. No. 1,371,232; Mar. 15; v. 284; p. 388.  
Stamp, Check and ticket. S. D. McMillan. No. 1,371,798; Mar. 15; v. 284; p. 500.



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- Stamp, Combined hand and self-inking. A. A. Pannier. No. 1,401,436; Dec. 27.
- Stamp-delivery machine. H. Thun. No. 1,382,573; June 21; v. 287; p. 538.
- Stamp, Hand-. W. T. Cressler. No. 1,398,363; Nov. 29.
- Stamp, Hand-. H. S. Folger. No. 1,366,374; Jan. 25; v. 282; p. 577.
- Stamp-inking device. J. A. Frost. No. 1,374,883; Apr. 12; v. 285; p. 332.
- Stamp-inking pad. N. Mock. No. 1,385,022; July 19; v. 288; p. 496.
- Stamp, Multiple. H. H. McFillen. No. 1,398,733; Nov. 29.
- Stamp or seal. R. Perez. No. 1,385,490; July 26; v. 288; p. 668.
- Stamp, Rolling. C. Nakaizumi. No. 1,374,090; Apr. 5; v. 285; p. 138.
- Stamp, Time-. J. Levy. No. 1,394,179; Oct. 18.
- Stamp, Time-. R. Schmidt. No. 1,372,911; Mar. 29; v. 284; p. 813.
- Stamp, Time-. R. H. Thompson. No. 1,393,410; Oct. 11.
- Stamp, Time hand-. J. S. Packard. No. 1,377,786; May 10; v. 286; p. 326.
- Stamping and issuing machine, Check. C. Manshel. No. 1,393,232; Oct. 11.
- Stamping apparatus. P. H. L. Tiranty and J. T. F. Conti. No. 1,386,142; Aug. 2; v. 289; p. 3.
- Stamping device. F. J. Schmidt. No. 1,391,856; Sept. 27; v. 290; p. 691.
- Stamping-dies. L. E. Cameron. No. 1,400,416; Dec. 13.
- Stamping-machine. E. H. Duval. No. 1,393,513; Oct. 11.
- Stamping-machine. M. Fogde and L. P. Southwick. No. 1,364,741; Jan. 4; v. 282; p. 133.
- Stamping-machine. M. Fogde and L. P. Southwick. (Re-issue.) No. 15,254; Dec. 27.
- Stamping-machine. J. Nagy. No. 1,394,333; Oct. 18.
- Stamping-machine. F. I. Stiles. No. 1,369,570; Feb. 22; v. 283; p. 668.
- Stamping-machine. H. W. Winter. No. 1,381,153; June 14; v. 287; p. 211.
- Stamping-machine, Electrically-heated. J. Bill. No. 1,392,553; Oct. 4.
- Stamping-machines, Work and material holder for. W. E. Choate. No. 1,395,555; Nov. 1.
- Stamping-press. G. H. Jaquiere. No. 1,401,605; Dec. 27.
- Stamping-presses, Safety device for. F. Alley. No. 1,384,654; July 12; v. 288; p. 340.
- Stanchion, Cattle-. D. B. Coates. No. 1,397,833; Nov. 22.
- Stanchion, Cattle-. A. Fritz. No. 1,396,034; Nov. 8.
- Stanchion, Cattle-. J. G. Shodron and J. B. Olson. No. 1,364,413; Jan. 4; v. 282; p. 71.
- Stanchion-control mechanism. W. Mitchell. No. 1,401,428; Dec. 27.
- Stanchion, Self-closing. F. E. Webb. No. 1,395,882; Nov. 1.
- Stand: See—
- Adjustable stand.
  - Advertising display-stand.
  - Barrel-stand.
  - Barrel-filling stand.
  - Book-stand.
  - Christmas-tree stand.
  - Collapsible ironing-board stand.
  - Combination-stand.
  - Convertible box and stand.
  - Corner-stand.
  - Dental-equipment stand.
  - Display-stand.
  - Engine-stand.
  - Engine-overhauling stand.
  - Flower-supporting stand.
  - Folding stand.
  - Ford-engine stand.
  - Garment-stand.
  - Inkstand.
  - Lamp-stand.
  - Machine-stand.
  - Motor-stand.
  - Motor block-stand.
  - Motor-supporting stand.
  - Motorcycle-stand.
  - Music-stand.
  - Pad-supporting stand.
  - Percolator-stand.
  - Photographic stand.
  - Pipe-vice stand.
  - Plant-stand.
  - Radiator-repair stand.
  - Range-boiler stand.
  - Repairing-stand.
  - Sadiron-stand.
  - Shoe-holding stand.
  - Shoe-repairing stand.
  - Shoe-shining stand.
  - Smoker's stand.
  - Smoking-stand.
  - Switch-stand.
  - Telephone-stand.
  - Telescopic stand.
  - Typist's copy-stand.
  - Vehicle work-stand.
  - Vise-stand.
  - Thread-stand.
  - Watch-stand.
  - Work and display stand.
  - Work-holding stand.
- Stand and target, Switch. D. C. Mulvihill. No. 1,384,148; July 12; v. 288; p. 234.
- Stand for rolled goods. E. A. Luzenberg. No. 1,390,299; Sept. 13; v. 290; p. 240.
- Stand, stool, or other like article, Folding. S. W. Wardwell. No. 1,394,351; Oct. 18.
- Stands, Clamp for shoe-. G. Weiss. No. 1,368,468; Feb. 15; v. 283; p. 415.
- Stands for motorcycles and the like, Catch for. C. L. Croft. No. 1,393,508; Oct. 11.
- Standardized classified-ad-copy blank. B. L. Smith. No. 1,377,855; May 10; v. 286; p. 339.
- Staple-driving machine. J. Muth. No. 1,397,176; Nov. 15.
- Staple making and driving machine. M. Brock. No. 1,388,846; Aug. 30; v. 289; p. 806.
- Staple-nail. C. A. Love and C. Goldston. No. 1,378,803; May 17; v. 286; p. 573.
- Staple-puller. G. L. Hunter. No. 1,392,765; Oct. 4.
- Staple-remover. J. Muth. No. 1,397,177; Nov. 15.
- Stapling-machine. C. A. Borba. No. 1,369,726; Feb. 22; v. 283; p. 699.
- Stapling-machine, Multiple. H. B. Walter. No. 1,378,390; May 17; v. 286; p. 493.
- Stapling-machine, Multiple-head. E. Craig. No. 1,381,617; June 14; v. 287; p. 297.
- Star finder and identifier. G. T. Rude. No. 1,401,446; Dec. 27.
- Starch, Modifying. E. H. Harvey. No. 1,366,653; Jan. 25; v. 282; p. 634.
- Starter. P. Petri. No. 1,366,097; Jan. 18; v. 282; p. 480.
- Starter. S. W. Rushmore. No. 1,387,559; Aug. 16; v. 289; p. 441.
- Starter-control device, Auxiliary. W. Lawrence. No. 1,397,690; Nov. 22.
- Starter, Electrical. E. V. Hartford. No. 1,364,854; Jan. 4; v. 282; p. 155.
- Starter, Engine-. V. Bendix. No. 1,372,264; Mar. 22; v. 284; p. 645.
- Starter, Engine-. J. W. Esterline and D. J. Angus. No. 1,376,752; May 3; v. 286; p. 70.
- Starter, Engine-. E. V. Hartford and L. Mastrangel. No. 1,364,853; Jan. 4; v. 282; p. 155.
- Starter, Engine-. W. L. McGrath. No. 1,365,420; Jan. 11; v. 282; p. 309.
- Starter, Engine-. W. L. McGrath. No. 1,372,306; Mar. 22; v. 284; p. 654.
- Starter, Engine-. W. L. McGrath. No. 1,374,937; Apr. 19; v. 285; p. 404.
- Starter, Engine-. J. H. Richards. No. 1,379,214; May 24; v. 286; p. 723.
- Starter, Impulse-. J. M. Edwards. No. 1,371,023; Mar. 8; v. 284; p. 286.
- Starter, Impulse-. P. Ostenberg. No. 1,383,480; July 5; v. 288; p. 46.
- Starter, Motorcycle-engine. A. D. Moulin. No. 1,394,753; Oct. 25.
- Starting and generating system. W. A. Turbayne. No. 1,366,544; Jan. 25; v. 282; p. 612.
- Starting and ignition system. U. D. Garver. No. 1,395,809; Nov. 1.
- Starting and lighting apparatus. V. G. Apple. No. 1,396,004; Nov. 8.
- Starting and lighting system. T. R. DuBois. No. 1,367,804; Feb. 8; v. 283; p. 239.
- Starting and speed-controlling device. E. J. Brasseur. No. 1,388,449; Aug. 23; v. 289; p. 675.
- Starting and stopping mechanism, Time-controlled. J. A. Oca-Balda. No. 1,368,828; Feb. 15; v. 283; p. 485.
- Starting apparatus, Automatic impulse. H. Tiedemann. No. 1,400,581; Dec. 20.
- Starting device. L. Mastrangel. No. 1,364,851; Jan. 4; v. 282; p. 154.
- Starting device, Compressed-air. O. E. Jørgensen. No. 1,372,028; Mar. 22; v. 284; p. 600.
- Starting device, Engine-. W. A. Chryst. No. 1,369,220; Feb. 22; v. 283; p. 600.
- Starting, generating, and braking system. W. A. Turbayne. No. 1,365,130; Jan. 11; v. 282; p. 253.
- Starting induction-motor. J. Bruncken. No. 1,392,555; Oct. 4.
- Starting means. C. Haunz. No. 1,385,210; July 19; v. 288; p. 535.
- Starting-switch, Safety. H. F. Krantz. No. 1,399,488; Dec. 6.
- Statement and return-envelope, Combined. R. Dority, G. E. Ijams, and H. W. Breining. No. 1,371,670; Mar. 15; v. 284; p. 475.
- Static and dynamic unbalance of rotating bodies, Machine for determining the. M. W. Torbet. No. 1,392,028; Sept. 27; v. 290; p. 727.
- Static charges, Apparatus for discharging. J. H. Morgan. No. 1,394,211; Oct. 18.
- Station-indicator. C. M. Gravatt. No. 1,395,816; Nov. 1.
- Station-indicator. L. J. Kreipel. No. 1,381,711; June 14; v. 287; p. 315.
- Station-indicator. L. H. Stroud. No. 1,392,718; Oct. 4.
- Station-indicator. M. Szczygiel. No. 1,377,228; May 10; v. 286; p. 218.
- Station-indicator, Electrically-operated. P. H. Waller. No. 1,364,905; Jan. 11; v. 282; p. 209.
- Station, Service. S. W. Raymond. No. 1,388,893; Aug. 30; v. 289; p. 815.
- Station-trough. A. Hupp. No. 1,371,486; Mar. 15; v. 284; p. 440.
- Stationery. E. A. Gove. No. 1,385,992; Aug. 2; v. 289; p. 6.
- Stay-iron. E. J. Wells. No. 1,385,765; July 26; v. 288; p. 724.
- Stay, Split back-. L. L. Bean. No. 1,365,080; Jan. 11; v. 282; p. 242.
- Staybolt and making same. J. A. Frauenhelm. No. 1,372,875; Mar. 29; v. 284; p. 805.
- Staybolt-chuck. J. B. Hasty. No. 1,375,456; Apr. 19; v. 285; p. 504.
- Staybolt construction, Boiler. J. A. Dowd. No. 1,399,942; Dec. 13.
- Staybolt-fastening. E. Duchesne. No. 1,386,691; Aug. 9; v. 289; p. 215.
- Staybolt structure. E. I. Dodds. No. 1,364,185; Jan. 4; v. 282; p. 27.
- Staybolt structure. E. I. Dodds. No. 1,364,186; Jan. 4; v. 282; p. 27.
- Staybolt structure. E. I. Dodds. No. 1,366,722; Jan. 25; v. 282; p. 648.



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- Staybolt structure. E. I. Dodds. No. 1,373,057; Mar. 29; v. 284; p. 841.
- Staybolt structure. E. I. Dodds. No. 1,380,541; June 7; v. 287; p. 41.
- Staybolt structure. E. I. Dodds. No. 1,385,779; July 26; v. 288; p. 727.
- Staybolt structure. E. I. Dodds. No. 1,385,780; July 26; v. 288; p. 727.
- Staybolt structure. E. I. Dodds and F. K. Landgraf. No. 1,383,084; June 28; v. 287; p. 689.
- Staybolt structure. E. I. Dodds. No. 1,390,279; Sept. 13; v. 290; p. 237.
- Staybolt structure. E. I. Dodds. No. 1,390,988; Sept. 20; v. 290; p. 441.
- Staybolt structure. E. I. Dodds. No. 1,393,351; Oct. 11.
- Staybolt structure. E. I. Dodds. Nos. 1,399,697-8; Dec. 6.
- Staybolt structure. E. I. Dodds. No. 1,400,531; Dec. 20.
- Staybolt structure. J. R. Flannery. No. 1,364,098; Jan. 1; v. 282; p. 10.
- Staybolt structure. J. R. Flannery and E. I. Dodds. Nos. 1,394,542-3; Oct. 25.
- Staybolt structure. J. R. Flannery and E. I. Dodds. Nos. 1,400,535-6; Dec. 20.
- Staybolt structure. J. R. Flannery and E. I. Dodds. Nos. 1,401,683-4; Dec. 27.
- Staybolt structure. J. R. Flannery and E. S. Fitz Simons. No. 1,400,736; Dec. 20.
- Staybolt structure. J. R. Flannery, B. E. D. Stafford, and E. I. Dodds. No. 1,364,100; Jan. 4; v. 282; p. 10.
- Staybolt structure. R. S. Mennie. No. 1,366,698; Jan. 25; v. 282; p. 643.
- Staybolt structure. R. S. Mennie. No. 1,395,286; Nov. 1.
- Staybolt structure. B. E. D. Stafford. No. 1,364,149; Jan. 4; v. 282; p. 20.
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- Staybolt structure. B. E. D. Stafford and E. I. Dodds. No. 1,392,235; Sept. 27; v. 290; p. 767.
- Staybolt structure. B. E. D. Stafford and E. I. Dodds. No. 1,392,236; Sept. 27; v. 290; p. 768.
- Staybolt structure. B. E. D. Stafford and E. I. Dodds. No. 1,399,033; Dec. 6.
- Staybolt structures in boilers, Making and installing. E. I. Dodds and J. R. Flannery. No. 1,373,058; Mar. 29; v. 284; p. 841.
- Staybolts, Machine for threading. J. A. Eden, Jr. No. 1,367,951; Feb. 8; v. 283; p. 267.
- Steady-rest. S. H. Norton. No. 1,370,705; Mar. 8; v. 284; p. 226.
- Steam and hot-water heating, Boiler for. J. W. Piper. No. 1,398,794; Nov. 29.
- Steam, Apparatus for condensing. D. B. Morison. No. 1,378,553; May 17; v. 286; p. 524.
- Steam-boiler. J. M. Colven. No. 1,394,969; Oct. 25.
- Steam-boiler. J. A. Doble. No. 1,373,177; Mar. 29; v. 284; p. 866.
- Steam-boiler. H. Furman. No. 1,379,547; May 24; v. 286; p. 786.
- Steam-boiler. G. Miller. No. 1,389,262; Aug. 30; v. 289; p. 889.
- Steam-boiler. S. F. Swanson. No. 1,375,616; Apr. 19; v. 285; p. 534.
- Steam-boiler. M. J. Trumble. No. 1,365,608; Jan. 11; v. 282; p. 345.
- Steam-boiler. R. A. Whittingham. No. 1,368,310; Feb. 15; v. 283; p. 384.
- Steam boilers and condensers, Means for mounting electrodes employed in the prevention of corrosion in. A. S. Gush. No. 1,366,257; Jan. 18; v. 282; p. 512.
- Steam-boiler and steam-power generation. G. S. Roberts. No. 1,398,395; Nov. 29.
- Steam-boiler-compound feeder. E. H. Tuttle, J. C. Miller, and T. C. Baldwin. No. 1,392,862; Oct. 4.
- Steam-boiler economizer system. D. S. Jacobus. No. 1,393,445; Oct. 11.
- Steam-boiler levels, Case for. L. Mosmieri. No. 1,381,130; June 14; v. 287; p. 207.
- Steam-boiler furnace and operating the same. H. C. Heaton. No. 1,401,253; Dec. 27.
- Steam-boilers, Low-water alarm for. J. A. Leavitt. No. 1,364,287; Jan. 4; v. 282; p. 47.
- Steam-boiler low-water signal. C. E. Fuller. No. 1,392,682; Oct. 4.
- Steam-boilers, Economizer for. J. E. Bell. No. 1,392,675; Oct. 4.
- Steam-boilers Staybolt installation for. J. R. Flannery. No. 1,364,097; Jan. 4; v. 282; p. 9.
- Steam cooking vessel. J. T. Slocomb. No. 1,384,102; July 12; v. 288; p. 224.
- Steam-condensing apparatus. H. O. Baker. No. 1,375,272; Apr. 19; v. 285; p. 469.
- Steam-condensing plants, Automatic control of. H. Fothergill. No. 1,392,003; Sept. 27; v. 290; p. 722.
- Steam-drier. A. E. Tompkins. No. 1,386,211; Aug. 2; v. 289; p. 50.
- Steam economizer. J. L. Barrett. No. 1,387,227; Aug. 9; v. 289; p. 321.
- Steam-ejector. A. Delas. No. 1,374,990; Apr. 19; v. 285; p. 414.
- Steam-engine. E. J. Armstrong. No. 1,393,736; Oct. 18.
- Steam-engine. F. W. Büsch. Nos. 1,401,866-8; Dec. 27.
- Steam-engine. M. J. M. Fitzpatrick. No. 1,373,183; Mar. 29; v. 284; p. 867.
- Steam-engine. J. G. Keller. No. 1,389,832; Sept. 6; v. 290; p. 55.
- Steam-engine, Portable or semiportable. K. Heilmann. No. 1,372,430; Mar. 22; v. 284; p. 677.
- Steam friction device. F. T. Swanson. No. 1,304,952; Oct. 25.
- Steam-gage. P. I. Wright. No. 1,387,676; Aug. 16; v. 289; p. 464.
- Steam-generating apparatus. C. E. Broad. No. 1,364,178; Jan. 4; v. 282; p. 26.
- Steam-generating system. L. L. Scott. No. 1,385,845; July 26; v. 288; p. 740.
- Steam-generator. J. T. Blakeman. No. 1,398,582; Nov. 29.
- Steam-generator. C. A. Horn. No. 1,376,812; May 3; v. 286; p. 82.
- Steam-generator. B. H. Leister. No. 1,383,408; July 5; v. 288; p. 31.
- Steam-generator. C. H. Lewis. No. 1,382,204; June 21; v. 287; p. 467.
- Steam-generator. T. J. McDonald. No. 1,381,481; June 14; v. 287; p. 271.
- Steam-generator. H. A. Nicholson. No. 1,366,207; Jan. 18; v. 282; p. 502.
- Steam-generator. A. E. Snow. No. 1,392,366; Oct. 4.
- Steam-generator and oil-vaporizer, Combined. J. T. Davis. No. 1,372,651; Mar. 22; v. 284; p. 719.
- Steam generator and superheater. A. J. Borst, Jr. No. 1,376,509; May 3; v. 286; p. 25.
- Steam-generator, Portable. W. E. Prosser and A. E. Higgins. No. 1,395,973; Nov. 1.
- Steam-generators, System for regulating mechanical stokers for. T. M. Wilkins. No. 1,395,377; Nov. 1.
- Steam-heating apparatus. B. W. McClymont. No. 1,378,252; May 17; v. 286; p. 467.
- Steam-heating, Vapor-valve for. E. E. Gold. No. 1,365,587; Jan. 11; v. 282; p. 342.
- Steam hydraulic intensifier. T. W. Hand. No. 1,383,399; July 5; v. 288; p. 29.
- Steam-pressure regulator. C. Stickle. No. 1,378,630; May 17; v. 286; p. 539.
- Steam-producer. W. S. Warnock. No. 1,398,986; Dec. 6.
- Steam pumping engine. D. A. Decrow. No. 1,380,365; June 7; v. 287; p. 8.
- Steam regulation. H. F. Smith. No. 1,397,554; Nov. 22.
- Steam-separator. C. T. Lindstrom. No. 1,382,100; June 21; v. 287; p. 448.
- Steam-separator. T. H. McGraw, Jr. No. 1,393,298; Oct. 11.
- Steam-separator. H. H. Tracy. No. 1,381,767; June 14; v. 287; p. 326.
- Steam-shovels, Tooth for. R. R. Downie. No. 1,399,337; Dec. 6.
- Steam-superheater. H. E. Geer. No. 1,364,272; Jan. 4; v. 282; p. 44.
- Steam-trap. C. A. Dunham. No. 1,373,225; Mar. 29; v. 284; p. 875.
- Steam-trap. H. J. Hinchey. No. 1,396,206; Nov. 8.
- Steam-trap. F. L. Hutchinson. No. 1,382,645; June 28; v. 287; p. 606.
- Steam-trap. H. H. Mead. No. 1,376,214; Apr. 26; v. 285; p. 681.
- Steam-trap. H. Willemstyn. No. 1,384,715; July 12; v. 288; p. 352.
- Steam-turbine engine. W. H. Belknap. No. 1,378,396; May 17; v. 286; p. 494.
- Steam-whistle-operating mechanism. T. J. Converse. No. 1,396,096; Nov. 8.
- Steamer. F. D. Crosier. No. 1,377,809; May 10; v. 286; p. 330.
- Steamer. M. Levin. No. 1,393,725; Oct. 11.
- Steamer, cleaner and presser. G. Franks and O. Sproesig. No. 1,373,879; Apr. 5; v. 285; p. 98.
- Steamships, Feed-water system for. C. R. Lang. No. 1,392,341; Oct. 4.
- Steamships, Propeller for. J. Christoff. No. 1,372,402; Mar. 22; v. 284; p. 672.
- Steamships, Steam-condensing and feed-water system for. C. R. Lang. No. 1,377,080; May 3; v. 286; p. 134.
- Stearo-ricinate-diiodid, Production of a crystallized ester of the. F. Boedecker. No. 1,381,057; June 7; v. 287; p. 141.
- Steel. P. MacGregor and A. Balfour. No. 1,375,255; Apr. 19; v. 285; p. 466.
- Steel, Alloy. P. M. McKenna. No. 1,389,679; Sept. 6; v. 290; p. 24.
- Steel, Alloy. P. M. McKenna. No. 1,389,680; Sept. 6; v. 290; p. 24.
- Steel, Alloy. G. W. Sargent and J. W. Weitzenkorn. Nos. 1,401,925-6; Dec. 27.
- Steel and iron parts, Treating. J. Sorenson. No. 1,373,573; Apr. 5; v. 285; p. 38.
- Steel articles, Seasoning. B. H. Blood. No. 1,373,589; Apr. 5; v. 285; p. 41.
- Steel billets while hot, Device for removing flaws from. J. L. Smith. No. 1,380,430; June 7; v. 287; p. 20.
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- Steel, Composition for treating. V. Müller. No. 1,372,364; Mar. 22; v. 284; p. 664.
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- Steel-furnaces, Tapping and raveling apparatus for. E. H. Wurst. No. 1,373,581; Apr. 5; v. 285; p. 39.
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- Steel, Making. E. T. Peltou. No. 1,376,160; Apr. 26; v. 285; p. 671.
- Steel, Manufacture of. A. H. Henderson. No. 1,378,861; May 24; v. 286; p. 656.
- Steel, Manufacture of. A. Pacz. No. 1,373,908; Apr. 5; v. 285; p. 103.
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- Steel sheets with aluminum, Coating. S. Peacock. No. 1,378,052; May 17; v. 286; p. 429.
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- Steel tubes, Extension-press for the manufacture of. J. P. Sneddon. No. 1,375,426; Apr. 19; v. 285; p. 499.
- Steel work, Universal template for structural. E. W. Cunningham. No. 1,382,271; June 21; v. 287; p. 480.
- Steels, Producing alloy. C. M. Johnson. No. 1,366,662; Jan. 25; v. 282; p. 636.
- Steeper and dripper, Combination. G. H. Nicholls. No. 1,365,185; Jan. 11; v. 282; p. 263.
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- Steering-column for automotive apparatus. N. W. Aklmof. No. 1,380,338; June 7; v. 287; p. 4.
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- Steering device. H. Bardsley. No. 1,366,154; Jan. 18; v. 282; p. 491.
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- Steering device. P. Wayda. No. 1,390,322; Sept. 13; v. 290; p. 245.
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- Steering-gear adjustment. D. J. Murnane and J. P. Lavigne. No. 1,368,044; Feb. 8; v. 283; p. 284.
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- Steering-gear attachment. A. F. Greiner. No. 1,391,053; Sept. 20; v. 290; p. 455.
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- Steering-gear-supporting apparatus. A. G. Gelstert. No. 1,368,427; Feb. 15; v. 283; p. 407.
- Steering-head lock. T. C. Lonney. No. 1,381,206; June 14; v. 287; p. 221.
- Steering-knuckle. H. W. Alden. No. 1,371,594; Mar. 15; v. 284; p. 460.
- Steering-knuckle. R. M. Kanik. No. 1,372,883; Mar. 20; v. 284; p. 807.
- Steering-knuckles, Tension for. L. J. Russell. No. 1,391,081; Sept. 20; v. 290; p. 460.
- Steering-machine Electric. H. E. Gouge. No. 1,376,271; Apr. 26; v. 285; p. 692.
- Steering mechanism. W. J. Boyer. No. 1,367,584; Feb. 8; v. 283; p. 197.
- Steering mechanism. A. H. Hofer and L. T. Wickey. No. 1,385,785; July 26; v. 288; p. 728.
- Steering mechanism. R. F. Hoffman. No. 1,378,456; May 17; v. 286; p. 505.
- Steering mechanism. J. N. Kelly. No. 1,386,710; Aug. 9; v. 289; p. 219.
- Steering mechanism. F. G. Lewis. No. 1,400,689; Dec. 20.
- Steering mechanism. H. E. Yarrow. No. 1,373,375; Mar. 29; v. 284; p. 904.
- Steering mechanism, Vehicle. C. Dahl. No. 1,368,611; Feb. 15; v. 283; p. 443.
- Steering mechanism for trailers. G. E. Conrad. No. 1,385,667; July 26; v. 288; p. 704.
- Steering-post-locking means. A. E. Miller. No. 1,384,707; July 12; v. 288; p. 351.
- Steering-post-positioning means. C. P. Stanbon. No. 1,383,348; July 5; v. 288; p. 18.
- Steering posts, Lock for. J. E. Lynch and J. W. Woodward. No. 1,392,186; Sept. 27; v. 290; p. 757.
- Steering reach-rod. R. A. Kaps. No. 1,401,110; Dec. 20.
- Steering-wheel. H. W. Bundy. No. 1,381,964; June 21; v. 287; p. 423.
- Steering-wheel. J. Blackburn. No. 1,366,552; Jan. 25; v. 282; p. 614.
- Steering-wheel. J. Blackburn. No. 1,366,554; Jan. 25; v. 282; p. 615.
- Steering-wheel. H. W. Bundy. No. 1,375,128; Apr. 19; v. 285; p. 442.
- Steering-wheel. H. W. Bundy. No. 1,375,670; Apr. 26; v. 285; p. 578.
- Steering-wheel. H. W. Bundy. No. 1,396,990; Nov. 15.
- Steering-wheel. F. L. Cantrall. No. 1,365,373; Jan. 11; v. 282; p. 300.
- Steering-wheel. C. I. Flack. No. 1,364,740; Jan. 4; v. 282; p. 133.
- Steering-wheel. L. C. Lazear. No. 1,377,420; May 10; v. 286; p. 256.
- Steering-wheel. T. D. McMullen. No. 1,378,478; May 17; v. 286; p. 510.
- Steering-wheel. J. A. Murphey. No. 1,366,206; Jan. 18; v. 282; p. 501.
- Steering-wheel. D. E. Ross. No. 1,380,840; June 7; v. 287; p. 99.
- Steering-wheel. G. E. Smith. No. 1,377,734; May 10; v. 286; p. 315.
- Steering-wheel. O. K. Snyder and C. H. Kenrich. No. 1,381,025; June 7; v. 287; p. 135.
- Steering wheel and forming same. C. W. Beck. No. 1,395,893; Nov. 1.
- Steering-wheel lock. A. E. Beasley. No. 1,395,083; Oct. 25.
- Steering-wheel lock. R. Becker. No. 1,368,382; Feb. 15; v. 283; p. 398.
- Steering-wheel lock. G. D'Agostino. No. 1,366,710; Jan. 25; v. 282; p. 647.
- Steering-wheel lock. R. P. Gerfers. No. 1,368,922; Feb. 15; v. 283; p. 501.
- Steering-wheel lock. W. J. Lane. No. 1,378,844; May 17; v. 286; p. 465.
- Steering-wheel lock. S. D. and R. D. Marr. No. 1,381,726; June 14; v. 287; p. 319.
- Steering-wheel lock. J. Nelson. No. 1,393,731; Oct. 11.
- Steering-wheel lock. J. De Martino. No. 1,366,066; Jan. 18; v. 282; p. 474.
- Steering-wheel lock. T. D. Stanley. No. 1,372,103; Mar. 22; v. 284; p. 614.
- Steering-wheel lock. T. D. Stanley. Nos. 1,395,608-9; Nov. 1.
- Steering-wheel lock. G. A. Wehner. No. 1,387,218; Aug. 9; v. 289; p. 319.
- Steering-wheel, Electrovapor-heated. A. L. Senn. No. 1,388,488; Aug. 23; v. 289; p. 682.
- Steering-wheel mounting. E. F. Davis. No. 1,374,830; Apr. 12; v. 285; p. 321.
- Steering-wheel-spider puller. C. P. Brockway. No. 1,383,382; July 5; v. 288; p. 26.
- Steering-wheels, Theft-preventing attachment for. E. R. Tilden. No. 1,395,532; Nov. 1.
- Stem and bit locking device. J. P. Shamberger. No. 1,390,931; Sept. 13; v. 290; p. 368.
- Stem winding and setting device. J. A. Freund. No. 1,378,408; May 17; v. 286; p. 496.
- Stemming apparatus. C. E. Forry. No. 1,365,096; Jan. 11; v. 282; p. 246.
- Stencil-blanks, Machine for impressing characters on. S. Elliott. No. 1,378,771; May 17; v. 286; p. 567.
- Stencil-character punch and making same. A. J. Bradley. No. 1,378,520; May 17; v. 286; p. 518.
- Stencil, Combination. J. Schmidinger. No. 1,393,170; Oct. 11.
- Stencil-cutting apparatus. E. G. Clark. No. 1,377,979; May 10; v. 286; p. 363.
- Stencil-machines, Feed-carriage for. G. Remnsnider. No. 1,374,284; Apr. 12; v. 285; p. 206.
- Stencil, Multiple-character. W. H. Strauser. No. 1,380,850; June 7; v. 287; p. 101.
- Stencil-plates, die-plates, and the like, Preparing. G. E. Wertheimer. No. 1,376,365; Apr. 26; v. 285; p. 710.
- Stencil-plates, die-plates, and the like, Solution or bath for use in electrically preparing. G. E. Wertheimer. No. 1,376,366; Apr. 26; v. 285; p. 710.
- Stencil-plates, die-plates, and the like, Solution or bath for electrically preparing. G. E. Wertheimer. No. 1,376,367; Apr. 26; v. 285; p. 710.
- Stencil-plates, die-plates, and the like, Solution or bath for use in electrically preparing. G. E. Wertheimer. No. 1,376,368; Apr. 26; v. 285; p. 710.
- Stencil-plates, die-plates, and the like, Solution or bath for use in electrically preparing. G. E. Wertheimer. No. 1,376,369; Apr. 26; v. 285; p. 711.
- Stencil-printing apparatus. H. S. Trebitsch. No. 1,398,980; Dec. 6.
- Stencil-sheet and making it. A. F. Sulzer. No. 1,375,866; Apr. 26; v. 285; p. 614.
- Stencil-sheet, Combination. S. Rian. No. 1,369,470; Feb. 22; v. 283; p. 648.
- Stenciling. W. G. Fuerth. No. 1,398,013; Nov. 22.
- Stenciling-machine. B. C. Stickney. No. 1,370,240; Mar. 1; v. 284; p. 92.
- Stenciling machine, Music-roll. H. J. Smith. No. 1,375,331; Apr. 19; v. 285; p. 481.
- Stenciling material. E. W. Hill. No. 1,393,444; Oct. 11.
- Stenographer's note-holder. L. Schingel. No. 1,384,861; July 19; v. 288; p. 463.



- Stenographer's rapid recorder. W. J. Scully. No. 1,388,769; Aug. 23; v. 289; p. 736.
- Step, Extension-. A. E. Seibert. No. 1,394,365; Oct. 18.
- Step-joints, Making. B. G. Braine. No. 1,394,708; Oct. 25.
- Stepladder. H. M. Graf. No. 1,397,280; Nov. 15.
- Stepladder. H. J. Heider. No. 1,401,470; Dec. 27.
- Stepladder. M. W. Reeves. No. 1,379,419; May 24; v. 286; p. 762.
- Stepladder, Extension and combination. W. Houghtaling. No. 1,401,257; Dec. 27.
- Stepladder and extension-ladder, Combined. L. A. Boyd. No. 1,374,548; Apr. 12; v. 285; p. 267.
- Stepladder, Extensible. E. Jacob. No. 1,368,438; Feb. 15; v. 283; p. 409.
- Stereopticon. W. H. Kelly. No. 1,400,958; Dec. 20.
- Stereopticon. E. H. Younge. No. 1,366,443; Jan. 25; v. 282; p. 592.
- Stereopticon. H. A. de Vry. No. 1,395,398; Nov. 1.
- Stereopticon, Dissolving. A. Vischer, Jr. No. 1,365,752; Jan. 18; v. 282; p. 413.
- Stereoscope, Folding. J. M. Hattersley. No. 1,392,327; Oct. 4.
- Stereoscopic projection apparatus. H. Dickinson and G. A. W. Hepburn. No. 1,383,538; July 5; v. 288; p. 57.
- Stereotype, Impressing type of a typewriting-machine directly into the molds for making. A. W. Sperling. No. 1,366,032; Jan. 18; v. 282; p. 468.
- Sterilization or pasteurization of liquids. A. Mülertz. No. 1,379,875; May 31; v. 286; p. 921.
- Sterilizer. H. Baehr. No. 1,372,388; Mar. 22; v. 284; p. 669.
- Sterilizer. J. E. Harvey. No. 1,365,686; Jan. 18; v. 282; p. 399.
- Sterilizer. A. H. Jessup. No. 1,392,944; Oct. 11.
- Sterilizer. C. R. Pelton and J. A. Hand. No. 1,384,403; July 12; v. 288; p. 286.
- Sterilizer. J. B. Pentz. No. 1,377,726; May 10; v. 286; p. 313.
- Sterilizer. I. M. Schneible. No. 1,391,213; Sept. 20; v. 290; p. 487.
- Sterilizer attachment. P. P. Pupilla. No. 1,371,810; Mar. 15; v. 284; p. 502.
- Sterilizing. J. C. Baker. No. 1,378,644; May 17; v. 286; p. 542.
- Sterilizing apparatus. R. M. Capon. No. 1,368,112; Feb. 8; v. 283; p. 297.
- Sterilizing cereals, nuts, seeds, &c. J. W. C. Hamilton and E. W. Quirk. No. 1,381,300; June 14; v. 287; p. 238.
- Sterilizing device. E. R. Ulrich. No. 1,398,983; Dec. 6.
- Sterilizing process. J. Diner. No. 1,397,504; Nov. 22.
- Sterilizing outfit. W. T. Power. No. 1,384,849; July 19; v. 288; p. 460.
- Sterilizing surgical instruments and other articles. J. B. Pentz. No. 1,377,725; May 10; v. 286; p. 313.
- Stick, Printer's. F. A. Pfeifer. No. 1,364,639; Jan. 4; v. 282; p. 114.
- Stiffener and car-door hinge, Combined. L. G. Miller. No. 1,377,717; May 10; v. 286; p. 311.
- Still. N. Bologa. No. 1,379,520; May 24; v. 286; p. 781.
- Still. C. D. Crane. No. 1,372,865; Mar. 29; v. 284; p. 803.
- Still. H. P. Hird. No. 1,368,149; Feb. 8; v. 283; p. 305.
- Still. A. C. Jewell. No. 1,369,438; Feb. 22; v. 283; p. 642.
- Still. D. L. Newton and N. H. Anderson. No. 1,376,631; May 3; v. 286; p. 48.
- Still. W. D. Rial. No. 1,390,386; Sept. 13; v. 290; p. 257.
- Still, Re-run-. D. Pyzel. No. 1,383,024; June 28; v. 287; p. 678.
- Stills, Apparatus for removing coke from. C. B. Buerger. No. 1,401,310; Dec. 27.
- Stilt. F. W. Groh. No. 1,367,376; Feb. 1; v. 283; p. 98.
- Stimulant and fertilizer. Plant. J. R. Campbell. No. 1,384,990; July 19; v. 288; p. 490.
- Stippler. G. Charlton. No. 1,369,163; Feb. 22; v. 283; p. 589.
- Stirring-rods, Apparatus for cleaning. C. B. Dutton. No. 1,373,871; Apr. 5; v. 285; p. 96.
- Stirrup. J. P. Naml. No. 1,378,713; May 17; v. 286; p. 555.
- Stirrup. W. R. Olmstead. No. 1,384,627; July 12; v. 288; p. 334.
- Stirrup-hammer. M. F. Williams. No. 1,396,983; Nov. 15.
- Stirrup leathers or straps, Rig or connection for. J. T. Connolly. No. 1,371,020; Mar. 8; v. 284; p. 286.
- Stirrup, Safety-. B. Baker. No. 1,392,673; Oct. 4.
- Stitch-doubling device and points therefor. L. N. D. Williams. No. 1,388,227; Aug. 23; v. 289; p. 629.
- Stitch-forming machine. E. B. Allen and H. C. Faulkner. No. 1,372,473; Mar. 22; v. 284; p. 685.
- Stitching-guide. F. A. McDonald. No. 1,396,447; Nov. 8.
- Stitching machine, Hole-. H. Unger. No. 1,376,658; May 3; v. 286; p. 62.
- Stitching-machine. C. E. Myers. No. 1,375,411; Apr. 19; v. 285; p. 496.
- Stitching-machines, Universal work-support for. H. Weber. No. 1,382,036; June 21; v. 287; p. 437.
- Stitching mechanism, &c. Controlling device for. G. E. Molyneux. No. 1,392,696; Oct. 4.
- Stock. G. F. Kight. No. 1,393,380; Oct. 11.
- Stock and die. I. C. Shuster. No. 1,382,392; June 21; v. 287; p. 503.
- Stock and display case. G. H. Riebeth. No. 1,372,829; Mar. 29; v. 284; p. 796.
- Stock device, Safety. J. T. Tucker. No. 1,375,189; Apr. 19; v. 285; p. 454.
- Stock-feeder. J. Dierks. No. 1,398,179; Nov. 22.
- Stock-feeder. L. D. Donaldson. No. 1,373,602; Apr. 5; v. 285; p. 43.
- Stock-feeding-tank heater. B. L. Myers. No. 1,375,533; Apr. 19; v. 285; p. 519.
- Stock-lift. O. E. Hatch. No. 1,366,178; Jan. 18; v. 282; p. 496.
- Stock-separator. H. D. Caspers. No. 1,381,797; June 14; v. 287; p. 332.
- Stock-tank. W. H. Cotton. No. 1,383,530; July 5; v. 288; p. 56.
- Stock-waterer. R. B. Glidden. No. 1,387,483; Aug. 16; v. 289; p. 425.
- Stock-watering tank. A. N. Eaton. No. 1,375,039; Apr. 19; v. 285; p. 425.
- Stock-watering tank. C. O. Whitnell. No. 1,400,194; Dec. 13.
- Stock-watering tank. E. H. Williams. No. 1,391,150; Sept. 20; v. 290; p. 475.
- Stock-winding device. H. B. Batchelder. No. 1,370,268; Mar. 1; v. 284; p. 98.
- Stocking. G. J. Connor. No. 1,388,098; Aug. 16; v. 289; p. 547.
- Stocking. A. B. Heinke. No. 1,399,299; Dec. 6.
- Stocking. W. J. Longtin. No. 1,386,266; Aug. 2; v. 289; p. 61.
- Stocking-clasp. E. R. Gilbert. No. 1,365,823; Jan. 18; v. 282; p. 427.
- Stocking-holding device. F. J. Ash. No. 1,365,445; Jan. 11; v. 282; p. 313.
- Stocking-stretcher. C. Fowler. No. 1,401,065; Dec. 20.
- Stocking-supporter. E. F. Barri. No. 1,394,533; Oct. 25.
- Stocking-supporter. C. M. Supple. (Reissue.) No. 15,024; Jan. 11; v. 282; p. 352.
- Stocking-toe guard. I. H. Hall. No. 1,368,255; Feb. 15; v. 283; p. 373.
- Stoker. M. Alpern. No. 1,384,656; July 12; v. 288; p. 340.
- Stoker. J. T. Arnold. No. 1,379,672; May 31; v. 286; p. 884.
- Stoker. T. Jennings. No. 1,391,061; Sept. 20; v. 290; p. 456.
- Stoker. H. F. Smith. No. 1,373,265; Mar. 29; v. 284; p. 883.
- Stoker, Automatic. E. Lundgren. No. 1,397,642; Nov. 22.
- Stoker boiler, Underfeed-. D. S. Jacobus. No. 1,365,321; Jan. 11; v. 282; p. 290.
- Stoker, Chain-grate. F. C. Sellens. No. 1,398,977; Dec. 6.
- Stoker control. H. T. Herr. No. 1,375,250; Apr. 19; v. 285; p. 465.
- Stoker-furnace. J. S. Skelly. No. 1,393,979; Oct. 10.
- Stoker-furnace. J. E. Wagoner. No. 1,374,125; Apr. 5; v. 285; p. 144.
- Stoker, Locomotive. N. M. Lower. No. 1,368,271; Feb. 15; v. 283; p. 377.
- Stoker, Locomotive. N. M. Lower. No. 1,368,273; Feb. 15; v. 283; p. 377.
- Stoker, Locomotive. N. M. Lower. No. 1,371,252; Mar. 15; v. 284; p. 393.
- Stoker, Locomotive. N. M. Lower. No. 1,371,497; Mar. 15; v. 284; p. 442.
- Stoker, Locomotive. N. M. Lower. No. 1,371,498; Mar. 15; v. 284; p. 442.
- Stoker, Locomotive. N. M. Lower. No. 1,375,711; Apr. 26; v. 285; p. 585.
- Stoker, Locomotive. N. M. Lower. No. 1,377,259; May 10; v. 286; p. 224.
- Stoker, Locomotive. N. M. Lower. No. 1,379,306; May 24; v. 286; p. 740.
- Stoker, Locomotive. N. M. Lower. No. 1,379,307; May 24; v. 286; p. 741.
- Stoker, Mechanical. H. G. Elvin and A. B. Fahnestock. No. 1,381,977; June 21; v. 287; p. 425.
- Stoker, Mechanical underfeed-. H. Vassiliadi. No. 1,371,529; Mar. 15; v. 284; p. 448.
- Stoking mechanism. J. M. Hopwood. No. 1,400,548; Dec. 20.
- Stoking mechanism. T. A. Peebles. No. 1,400,766; Dec. 20.
- Stoker of the underfeed type, Automatic. M. Ratel. No. 1,389,982; Sept. 6; v. 290; p. 85.
- Stoker, Side-dump. A. H. Blackburn and F. E. Fleming. No. 1,364,237; Jan. 4; v. 282; p. 37.
- Stoker, Underfeed. W. E. De Voe. No. 1,385,433; July 26; v. 288; p. 656.
- Stoker, Underfeed. F. Koenig. No. 1,393,292; Oct. 11.
- Stokers, Conveying device for locomotive. H. Lindsay. No. 1,386,416; Aug. 2; v. 289; p. 89.
- Stokers, Dumping apparatus for. M. Alpern. No. 1,393,598; Oct. 11.
- Stokers, Fuel-injector for locomotive. N. M. Lower. No. 1,368,272; Feb. 15; v. 283; p. 377.
- Stokers, Safety connecting-rod for automatic. M. Murphy. No. 1,384,270; July 12; v. 288; p. 259.
- Stokers, Water-back for. H. J. Kerr. No. 1,390,791; Sept. 13; v. 290; p. 339.
- Stone and manufacturing. Imitation. S. Hashimoto. No. 1,377,130; May 3; v. 286; p. 143.



*Alphabetical list of inventions—Continued.*

- Stone and other material, Machine for spreading crushed. W. O. and J. R. King. No. 1,376,944; May 3; v. 286; p. 108.
- Stone, building-. J. G. F. Lund. No. 1,367,786; Feb. 8; v. 283; p. 236.
- Stone, Converting limestone into a compressible artificial. C. L. V. Zimmer. No. 1,391,710; Sept. 27; v. 290; p. 661.
- Stone-crusher. P. Bechgaard. No. 1,400,257; Dec. 13.
- Stone-drilling engine. G. H. Gilman. No. 1,382,775; June 28; v. 287; p. 631.
- Stone-drilling engine. G. H. Gilman. No. 1,382,776; June 28; v. 287; p. 631.
- Stone-gatherer. F. R. Doane. No. 1,366,068; Jan. 18; v. 282; p. 475.
- Stone, Machine for dressing. J. M. Rice. No. 1,396,144; Nov. 8.
- Stone-mounting. A. L. Eliasoff and C. Birnbaum. No. 1,368,909; Feb. 15; v. 283; p. 501.
- Stone or brick, Artificial. W. L. Sanderson. No. 1,376,464; May 3; v. 286; p. 17.
- Stone or ores, Roller-mill for crushing material such as. C. M. Conder and G. T. Vivian. No. 1,383,529; July 5; v. 288; p. 56.
- Stone-picker. G. Cherba. No. 1,374,489; Apr. 12; v. 285; p. 256.
- Stone-picking machine. D. P. Carr. No. 1,381,540; June 14; v. 287; p. 283.
- Stone, Producing artificial. W. J. de Bas. No. 1,390,244; Sept. 6; v. 290; p. 137.
- Stone-setting tool. O. W. Jonas. No. 1,397,124; Nov. 15.
- Stone, Treating natural. F. P. Jackson. No. 1,396,118; Nov. 8.
- Stones, Device for holding precious. A. J. Benjamins. No. 1,371,840; Mar. 15; v. 284; p. 507.
- Stones, Machine for grinding pallet-. E. Loosli. No. 1,378,364; May 17; v. 286; p. 488.
- Stones, Machine for shaping sharpening-. M. A. Eaton. No. 1,377,119; May 3; v. 286; p. 141.
- Stool. D. R. Collier. No. 1,399,465; Dec. 6.
- Stool. E. E. Mallory. No. 1,388,736; Aug. 23; v. 289; p. 730.
- Stool. C. F. Miller. No. 1,398,935; Nov. 29.
- Stool. F. P. Riley. No. 1,384,675; July 12; v. 288; p. 344.
- Stool and table, Combined. C. E. Lewis. No. 1,369,251; Feb. 22; v. 283; p. 607.
- Stool, Bench-. M. L. Cochran. No. 1,385,903; July 26; v. 288; p. 751.
- Stool, Camp-. E. C. Y. Brown. No. 1,371,069; Mar. 8; v. 284; p. 295.
- Stool, Camp-. F. M. Stoll. No. 1,390,836; Sept. 13; v. 290; p. 348.
- Stool, Collapsible. A. W. Waderlow. No. 1,365,873; Jan. 18; v. 282; p. 437.
- Stool, Gardener's. A. J. Hurd. No. 1,383,542; July 5; v. 288; p. 58.
- Stool, Motorman's. L. G. Franz. No. 1,377,332; May 10; v. 286; p. 289.
- Stool or chair, Folding and extension. R. Sejnoha. No. 1,379,129; May 24; v. 286; p. 707.
- Stools, Floor-fastening for store-. F. W. Cook. No. 1,380,041; May 31; v. 286; p. 953.
- Stop, Automatic. F. Malocsay. No. 1,383,651; July 5; v. 288; p. 81.
- Stop, Automatic. F. Oberst. No. 1,392,077; Sept. 27; v. 290; p. 735.
- Stop mechanism. J. W. Lucier. No. 1,389,367; Aug. 30; v. 289; p. 911.
- Stop mechanism. H. C. Smith. No. 1,372,913; Mar. 29; v. 284; p. 813.
- Stop mechanism, Automatic. R. Head. No. 1,386,057; Aug. 2; v. 289; p. 19.
- Stop mechanism for lifting-jack. F. L. Gormley. No. 1,380,375; June 7; v. 287; p. 10.
- Stop-motion device. H. S. Jones and A. P. Cullinan. No. 1,377,587; May 10; v. 286; p. 286.
- Stop-motion device. W. S. Mills and H. E. Bisailon. No. 1,380,003; May 31; v. 286; p. 946.
- Stop-motion for twister-frames. E. E. Heafner. No. 1,375,290; Apr. 19; v. 285; p. 473.
- Stop-motion, Thread-controlled electric. J. P. Weis. No. 1,367,219; Feb. 1; v. 283; p. 67.
- Stopcock. F. C. Heijlman. No. 1,370,745; Mar. 8; v. 284; p. 234.
- Stopcock. F. C. Heylman. No. 1,387,714; Aug. 16; v. 289; p. 472.
- Stopcock or valve. B. and W. Butler. No. 1,370,875; Mar. 8; v. 284; p. 258.
- Stopper: See—  
 Bottle-stopper. Pipe-stopper.  
 Can-stopper. Washbowl-stopper.  
 Flue-stopper. Water-bottle stopper.
- Stopper. L. A. Cornellius. No. 1,388,327; Aug. 23; v. 289; p. 650.
- Stopper. P. Link. No. 1,364,998; Jan. 11; v. 282; p. 228.
- Stopper. M. Provich. No. 1,388,890; Aug. 30; v. 289; p. 815.
- Stopper and cleaning device, Combined. C. H. Bright, Jr. No. 1,394,139; Oct. 18.
- Stopper-extractor. G. Goebel. No. 1,395,103; Oct. 25.
- Stopper for vacuum-bottles. R. S. Porter. No. 1,385,394; July 26; v. 288; p. 648.
- Stopper-plug. L. Ullman. No. 1,370,170; Mar. 1; v. 284; p. 79.
- Stopping device, Electrical. A. H. Sawtell. No. 1,372,556; Mar. 22; v. 284; p. 701.
- Storage batteries, Controlling system for. C. E. Beach. No. 1,396,242; Nov. 8.
- Storage batteries, &c., Filling apparatus for. L. H. Flanders. No. 1,392,632; Oct. 4.
- Storage batteries, Safety device for. R. N. Chamberlain. No. 1,387,350; Aug. 9; v. 289; p. 348.
- Storage batteries, Separator for. C. F. and I. C. Williams. No. 1,396,390; Nov. 8.
- Storage batteries, Separator-plate for. F. A. Coleman and J. J. Hoffmann. No. 1,394,279; Oct. 18.
- Storage battery. E. S. and W. H. Adams. No. 1,391,089; Sept. 20; v. 290; p. 462.
- Storage battery. A. J. Baracree. No. 1,381,959; June 21; v. 287; p. 422.
- Storage battery. A. Bugbee. No. 1,382,270; June 21; v. 287; p. 480.
- Storage battery. H. Csanyi. No. 1,401,676; Dec. 27.
- Storage battery. T. R. Cook. No. 1,376,257; Apr. 26; v. 285; p. 689.
- Storage battery. T. R. Cook. No. 1,388,850; Aug. 30; v. 289; p. 807.
- Storage battery. T. A. Edison. No. 1,377,194; May 10; v. 286; p. 211.
- Storage battery. T. A. Edison. No. 1,379,088; May 24; v. 286; p. 699.
- Storage battery. R. G. Fear. No. 1,396,172; Nov. 8.
- Storage battery. B. Ford. No. 1,367,594; Feb. 8; v. 283; p. 199.
- Storage battery. B. Ford. No. 1,367,595; Feb. 8; v. 283; p. 199.
- Storage battery. B. Ford. No. 1,370,011; Mar. 1; v. 284; p. 49.
- Storage battery. J. M. Friss. No. 1,366,070; Jan. 18; v. 282; p. 475.
- Storage battery. C. D. Galloway. No. 1,376,932; May 3; v. 286; p. 105.
- Storage battery. S. R. Guy. No. 1,377,148; May 3; v. 286; p. 146.
- Storage battery. R. L. Heberling and W. E. Holland. No. 1,373,241; Mar. 29; v. 284; p. 878.
- Storage battery. S. J. Leveen. No. 1,395,683; Nov. 1.
- Storage battery. L. Lyndon. No. 1,388,656; Aug. 23; v. 289; p. 714.
- Storage battery. P. M. Marko. No. 1,368,817; Feb. 15; v. 283; p. 483.
- Storage battery. H. McCreary. No. 1,369,931; Mar. 1; v. 284; p. 34.
- Storage battery. J. H. Murphy. No. 1,376,566; May 3; v. 286; p. 35.
- Storage battery. I. M. Noble and W. E. Gossling. No. 1,364,299; Jan. 4; v. 282; p. 50.
- Storage battery. C. Olsson. No. 1,386,895; Aug. 9; v. 289; p. 257.
- Storage battery. M. O. Smith. No. 1,376,171; Apr. 26; v. 285; p. 673.
- Storage battery. A. J. Trigwell. No. 1,367,287; Feb. 1; v. 283; p. 80.
- Storage battery. R. W. Wales. No. 1,366,223; Jan. 18; v. 282; p. 505.
- Storage battery. G. Wheat. No. 1,389,174; Aug. 30; v. 289; p. 872.
- Storage battery. T. A. Willard. No. 1,377,995; May 10; v. 286; p. 366.
- Storage-battery assembly. L. Lyndon. No. 1,364,390; Jan. 4; v. 282; p. 66.
- Storage-battery cells, Protective covering for. C. P. Hatfield. No. 1,384,063; July 12; v. 288; p. 216.
- Storage-battery clip. C. F. Hartung. No. 1,366,799; Jan. 25; v. 282; p. 663.
- Storage-battery connector. L. J. Shields. No. 1,382,129; June 21; v. 287; p. 453.
- Storage-battery connector. W. H. Palmer, Jr. No. 1,383,845; July 5; v. 288; p. 122.
- Storage-battery construction. C. C. Carpenter. No. 1,380,770; June 7; v. 287; p. 85.
- Storage-battery construction. W. P. Loudon. No. 1,395,992; Nov. 1.
- Storage-battery container. J. M. Ahlgren. No. 1,384,816; July 19; v. 288; p. 453.
- Storage-battery container. H. E. Hunt. No. 1,374,506; Apr. 12; v. 285; p. 509.
- Storage battery, Electric. C. J. V. Fery. No. 1,371,746; Mar. 15; v. 284; p. 489.
- Storage battery, Electric. W. L. Gill. No. 1,371,998; Mar. 15; v. 284; p. 537.
- Storage-battery electrode and making same. H. C. Hubbell. No. 1,373,733; Apr. 5; v. 285; p. 68.
- Storage-battery grid. W. E. Holland and J. M. Skinner. No. 1,387,397; Aug. 9; v. 289; p. 357.
- Storage-battery-grid mold and molding process. I. B. Little. No. 1,368,445; Feb. 15; v. 283; p. 410.
- Storage-battery grids, Mold for. L. B. Hills. No. 1,387,926; Aug. 16; v. 289; p. 514.
- Storage-battery indicating device. C. C. Cox and G. W. Lentz. No. 1,373,951; Apr. 5; v. 285; p. 112.



- Storage-battery plate and making same. R. N. Chamberlain. No. 1,379,900; May 31; v. 286; p. 926.
- Storage-battery plate or electrode. E. W. Smith, C. D. Galloway, and C. Ambruster. No. 1,374,477; Apr. 12; v. 285; p. 254.
- Storage-battery plates, Machine for cleaning lugs of. P. E. Norris. No. 1,372,979; Mar. 29; v. 284; p. 827.
- Storage-battery plates, Making. W. H. Grinditch. No. 1,374,076; Apr. 5; v. 285; p. 135.
- Storage-battery plates, Separator for. J. M. Allen. No. 1,368,093; Feb. 8; v. 283; p. 293.
- Storage-battery separator. W. Best. No. 1,375,550; Apr. 19; v. 285; p. 522.
- Storage-battery separator. C. C. Carpenter. No. 1,380,354; June 7; v. 287; p. 6.
- Storage-battery separator. P. E. Norris. No. 1,386,650; Aug. 9; v. 289; p. 207.
- Storage-battery separator. G. Steerup. No. 1,370,064; Mar. 1; v. 284; p. 58.
- Storage-battery separator. W. M. Studebaker and H. J. Epple. No. 1,375,740; Apr. 26; v. 285; p. 590.
- Storage-battery separator and producing same. H. L. Boyer. No. 1,394,466; Oct. 18.
- Storage-battery separators, Making. B. Ford and E. W. Smith. No. 1,364,493; Jan. 4; v. 282; p. 87.
- Storage-battery separators, Treating. C. C. Carpenter. No. 1,380,353; June 7; v. 287; p. 6.
- Storage-battery separators, Preparing. C. C. Carpenter. No. 1,398,065; Nov. 22.
- Storage-battery terminal. C. W. Hazelett. No. 1,376,143; Apr. 26; v. 285; p. 668.
- Storage-battery terminal post. C. W. Hazelett. No. 1,376,144; Apr. 26; v. 285; p. 668.
- Storage-battery terminals, Seal for. C. W. Hazelett. No. 1,380,061; May 31; v. 286; p. 957.
- Storage-battery-testing instrument. J. W. Fitzgerald. No. 1,397,247; Nov. 15.
- Storage-bin. N. M. Langdon. No. 1,376,021; Apr. 26; v. 285; p. 644.
- Storage-bin. C. E. Sweeney. No. 1,380,688; June 7; v. 287; p. 69.
- Storage water-heater. E. Ruud. (Reissue.) No. 1,513,636; June 28; v. 287; p. 726.
- Storage-house aerating system. R. B. Vaughan and R. M. Love. No. 1,365,571; Jan. 11; v. 282; p. 338.
- Storage-port, Floating. G. K. Reist. No. 1,397,385; Nov. 15.
- Storage-receptacles, Discharge-gate. F. N. Whitesell. No. 1,366,334; Jan. 18; v. 282; p. 527.
- Storage-tank. J. M. Hopwood. No. 1,400,747; Dec. 20.
- Store. F. J. Florence. No. 1,400,948; Dec. 20.
- Store apparatus. C. Kilmer. No. 1,382,092; June 21; v. 287; p. 446.
- Store construction. J. W. King. No. 1,381,202; June 14; v. 287; p. 220.
- Store-fixture. F. M. O'Connor. No. 1,389,973; Sept. 6; v. 290; p. 83.
- Store-fixtures, Arrangement and construction of self-service. L. A. Hill. No. 1,392,418; Oct. 4.
- Store-front construction. G. C. Hester. No. 1,370,443; Mar. 1; v. 284; p. 130.
- Store-front construction. R. Michaels. No. 1,382,111; June 21; v. 287; p. 450.
- Store-front construction. F. C. Sanders. No. 1,371,442; Mar. 15; v. 284; p. 431.
- Store, Portable grocery-. C. W. Martin. No. 1,379,463; May 24; v. 286; p. 770.
- Store, Self-service. A. W. B. Johnson. No. 1,380,968; June 7; v. 287; p. 124.
- Store, Self-serving. H. C. Goode. No. 1,368,924; Feb. 15; v. 283; p. 504.
- Store, Self-serving. F. E. Jones. No. 1,397,379; Nov. 15.
- Store, Self-serving. H. Lee. No. 1,378,417; May 17; v. 286; p. 498.
- Store, Self-serving. C. Saunders. No. 1,397,824; Nov. 22.
- Store-shelves, Price-card holding and displaying device for. W. F. Blanchard. No. 1,390,427; Sept. 13; v. 290; p. 265.
- Stores and the like, Transfer system for department. M. Liebman and G. E. Doughty. No. 1,376,950; May 3; v. 286; p. 109.
- Stores, Fixtures for self-serving. T. D. Crawford. No. 1,390,673; Sept. 13; v. 290; p. 316.
- Storing and averaging materials, Method and plant for. D. Cole and J. Bergman. No. 1,389,184; Aug. 30; v. 289; p. 874.
- Storing and displaying device, Information. W. C. Cutler. No. 1,385,116; July 19; v. 288; p. 516.
- Storm-sash hanger. A. Schroeder. No. 1,366,599; Jan. 25; v. 282; p. 623.
- Storm-sash hanger. J. J. Schubert. No. 1,391,700; Sept. 27; v. 290; p. 659.
- Stove. C. J. Berglann. No. 1,371,407; Mar. 15; v. 284; p. 424.
- Stove. W. J. Best. No. 1,366,901; Feb. 1; v. 283; p. 4.
- Stove. F. H. Brand. No. 1,381,790; June 14; v. 287; p. 330.
- Stove. H. A. Cole. No. 1,387,453; Aug. 16; v. 289; p. 418.
- Stove. J. W. Du Puy. No. 1,394,508; Oct. 18.
- Stove. M. H. Farnes. No. 1,397,506; Nov. 22.
- Stove. G. Hammer. No. 1,385,541; July 26; v. 288; p. 678.
- Stove. J. E. Hettinger. No. 1,384,064; July 12; v. 288; p. 216.
- Stove. F. Krux. No. 1,395,433; Nov. 1.
- Stove. C. F. Kulp. No. 1,380,396; June 7; v. 287; p. 13.
- Stove. C. E. Laumeister. No. 1,371,910; Mar. 15; v. 284; p. 521.
- Stove. C. J. Mitiska. No. 1,384,772; July 19; v. 288; p. 445.
- Stove. C. J. Mitiska. No. 1,390,151; Sept. 6; v. 290; p. 119.
- Stove. F. A. Nieberding. No. 1,370,704; Mar. 8; v. 284; p. 226.
- Stove. H. Padolsky. No. 1,370,150; Mar. 1; v. 284; p. 74.
- Stove. S. Pearson. No. 1,372,902; Mar. 29; v. 284; p. 811.
- Stove. H. C. Reuter. No. 1,390,544; Sept. 13; v. 290; p. 289.
- Stove. F. E. Russell. No. 1,371,057; Mar. 8; v. 284; p. 293.
- Stove. A. Schaffer. No. 1,380,842; June 7; v. 287; p. 99.
- Stove. J. Zukowski. No. 1,387,824; Aug. 16; v. 289; p. 494.
- Stove and burner, Combination gas. E. A. Campbell. No. 1,397,160; Nov. 15.
- Stove and fireless cooker, Gas-. A. F. Glass. No. 1,397,207; Nov. 15.
- Stove and like heater, Gas cooking-. G. Waite. No. 1,374,046; Apr. 5; v. 285; p. 129.
- Stove and range. E. O. Howle and J. E. Leonard. No. 1,393,129; Oct. 11.
- Stove attachment. E. W. Rogers. No. 1,395,523; Nov. 1.
- Stove, Automatic. J. M. Merritt. No. 1,394,424; Oct. 18.
- Stove, Benzene-heated. J. D. Holscher and J. Höimark. No. 1,367,476; Feb. 1; v. 283; p. 118.
- Stove-board. A. Hutch. No. 1,387,402; Aug. 9; v. 289; p. 358.
- Stove, Brooder-. J. E. Kresky. No. 1,395,431; Nov. 1.
- Stove, Camp-. J. Higham. No. 1,364,371; Jan. 4; v. 282; p. 63.
- Stove, Collapsible heating-. E. Witzberger. No. 1,394,390; Oct. 18.
- Stove, Combination-. W. E. G. Chippindale. No. 1,369,758; Feb. 22; v. 283; p. 706.
- Stove, Combination furnace and cook-. B. H. Weaver. No. 1,383,043; June 28; v. 287; p. 682.
- Stove, Combination heating and cooking. S. Heath. No. 1,378,859; May 24; v. 286; p. 656.
- Stove, Combination reflector-. E. Witzberger. No. 1,394,389; Oct. 18.
- Stove, Combined coal and gas. J. H. Sattler. No. 1,366,421; Jan. 25; v. 282; p. 587.
- Stove, Combined coal and gas. N. and S. Schreder. No. 1,398,400; Nov. 29.
- Stove, Combined gas heating and cooking. A. Schmilowitz. No. 1,379,701; May 31; v. 286; p. 889.
- Stove, Composite. W. H. Myers. No. 1,383,965; July 5; v. 288; p. 146.
- Stove, Cooking-. C. E. Arundel. No. 1,371,191; Mar. 8; v. 284; p. 318.
- Stove, Cooking. J. Elde. No. 1,399,704; Dec. 6.
- Stove, Cooking-. T. Kaufer. No. 1,383,213; June 28; v. 287; p. 714.
- Stove, Cooking. T. Kaufer. No. 1,400,221; Dec. 13.
- Stove, Cooking-. R. L. Martin. No. 1,392,956; Oct. 11.
- Stove-door. T. R. Wilson. No. 1,375,620; Apr. 19; v. 285; p. 535.
- Stove-door fitting. T. J. McWilliams. No. 1,394,683; Oct. 25.
- Stove, Electric. A. C. Harrington. No. 1,388,111; Aug. 16; v. 289; p. 550.
- Stove, Electric. J. A. Howard, Sr. No. 1,383,949; July 5; v. 288; p. 143.
- Stove, Electric. S. I. Phelps. No. 1,376,829; May 3; v. 286; p. 85.
- Stove, Electric. L. Trouilhet and G. Duveau. No. 1,380,753; June 7; v. 287; p. 81.
- Stove, Electric cooking-. A. R. Ross. No. 1,375,801; Apr. 26; v. 285; p. 601.
- Stove, Field. R. I. Schmitzer. No. 1,391,415; Sept. 20; v. 290; p. 528.
- Stove, Folding auto and camper's. Z. A. Church and W. E. Thomas. No. 1,368,388; Feb. 15; v. 283; p. 399.
- Stove, Folding camp-. H. C. Hanson. No. 1,387,152; Aug. 9; v. 289; p. 308.
- Stove for orchardists, Portable. H. Livingston. No. 1,387,788; Aug. 16; v. 289; p. 487.
- Stove, Gas-. W. J. Best. No. 1,379,957; May 31; v. 286; p. 937.
- Stove, Gas-. M. Cohen. No. 1,373,303; Mar. 29; v. 284; p. 890.
- Stove, Gas-. J. F. Dombhoff and R. M. Sabo. No. 1,385,310; July 19; v. 288; p. 554.
- Stove, Gas-. A. H. Humphrey. No. 1,373,562; Apr. 5; v. 285; p. 36.
- Stove, Gas-. J. E. Toscan. No. 1,395,312; Nov. 1.
- Stove, Gas and coal. W. Wadler. No. 1,385,597; July 26; v. 288; p. 690.
- Stove, Gas-burning. C. H. Werlin. No. 1,378,071; May 17; v. 286; p. 433.



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- Stove, Gas-engine. J. O. Terrell. No. 1,379,138; May 24; v. 286; p. 709.
- Stove, Gas heating-. S. and N. Schreder. No. 1,377,732; May 10; v. 286; p. 314.
- Stove, Heating-. E. J. Davis. No. 1,387,359; Aug. 9; v. 289; p. 349.
- Stove, Heating-. W. A. Campbell. No. 1,367,457; Feb. 1; v. 283; p. 114.
- Stove, Heating-. E. V. Coulston. No. 1,368,701; Feb. 15; v. 283; p. 461.
- Stove, Heating-. H. H. Harris. No. 1,389,194; Aug. 30; v. 289; p. 876.
- Stove, Heating-. J. McCann. No. 1,368,405; Feb. 15; v. 283; p. 402.
- Stove, Heating-. M. Noeth. No. 1,382,667; June 28; v. 287; p. 610.
- Stove, Heating-. R. Robinson. No. 1,382,014; June 21; v. 287; p. 432.
- Stove, Hot-air. C. C. Lillibridge. No. 1,378,043; May 17; v. 286; p. 427.
- Stove, Laundry. C. P. Melvin. No. 1,399,439; Dec. 6.
- Stove-leg connection. A. T. Weiss. No. 1,392,033; Sept. 27; v. 290; p. 728.
- Stove-lid. W. Scharthausen. No. 1,375,978; Apr. 26; v. 285; p. 636.
- Stove lighter, Gas-. C. Fuhr. No. 1,393,890; Oct. 18.
- Stove-lighters and the like, Electric switch for. M. W. Kibbe. No. 1,364,282; Jan. 4; v. 282; p. 65.
- Stove, Manifold. J. H. Carmean, H. F. and J. M. Roberts. No. 1,400,023; Dec. 13.
- Stove, Oil-. T. E. Cook. No. 1,377,753; May 10; v. 286; p. 319.
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- Stove, Oil-. J. Shannon. No. 1,393,706; Oct. 11.
- Stove, Oil-. G. P. Van Wye. No. 1,373,540; Apr. 5; v. 285; p. 31.
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- Stove, Oil cooking-. J. Shannon and W. M. Simpson. No. 1,382,128; June 21; v. 287; p. 453.
- Stove or range. C. D. Carter. No. 1,397,856; Nov. 22.
- Stove or range. Z. A. Hall. No. 1,376,689; May 3; v. 286; p. 58.
- Stove or range. F. Kessler, Sr. No. 1,391,778; Sept. 27; v. 290; p. 674.
- Stove or range. F. J. Sass. No. 1,379,364; May 24; v. 286; p. 752.
- Stove or range. F. J. Sass. No. 1,384,157; July 12; v. 288; p. 246.
- Stove, &c., polish. N. Boynoff. No. 1,397,397; Nov. 15.
- Stove-polish. A. J. Stencell. No. 1,382,026; June 21; v. 287; p. 434.
- Stove, Portable. W. E. Baxter. No. 1,366,444; Jan. 25; v. 282; p. 592.
- Stove reservoirs, Valve for oil-. J. S. Brennan. No. 1,376,858; May 3; v. 286; p. 91.
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- Stove-top. W. P. Trainor. No. 1,381,369; June 14; v. 287; p. 251.
- Stove, Vapor-. R. H. Stephens. No. 1,400,384; Dec. 13.
- Stove wick-tube, Oil-. L. Strockstrom. No. 1,369,201; Feb. 22; v. 283; p. 597.
- Stoves and furnaces, Air-heater for. L. D. West. No. 1,390,947; Sept. 13; v. 290; p. 371.
- Stoves and furnaces, Draft appliance for. H. P. Wilson. No. 1,394,387; Oct. 18.
- Stoves, Attachment for. G. F. James and I. E. Smith. No. 1,373,737; Apr. 5; v. 285; p. 69.
- Stoves, Attachment for oil-. J. R. Donnelly. No. 1,366,365; Jan. 25; v. 282; p. 576.
- Stoves, Attachment for oil-. H. Ferr. No. 1,389,497; Aug. 30; v. 289; p. 936.
- Stoves, Automatic lighting device for gas-. W. E. Schneider. No. 1,379,479; May 24; v. 286; p. 773.
- Stoves, Burner for. H. B. Hemphill. No. 1,392,643; Oct. 4.
- Stoves, Burner for vapor-. H. P. Ball. No. 1,389,614; Sept. 6; v. 290; p. 11.
- Stoves, Combined burner structure for gas-. E. L. Claus. No. 1,395,799; Nov. 1.
- Stoves, Combustion-promoting device for. N. H. Ferland. No. 1,377,010; May 3; v. 286; p. 120.
- Stoves, Drip-pan for. L. S. Chadwick. No. 1,399,747; Dec. 13.
- Stoves, &c., Flue-block for. P. Moquist. No. 1,399,511; Dec. 6.
- Stoves, furnaces, &c., Oil-burner for. J. T. Dalcher. No. 1,396,166; Nov. 8.
- Stoves, Heat-saving device for gas-. S. J. T. Long. No. 1,366,738; Jan. 25; v. 282; p. 651.
- Stoves, Heat-storing attachment for. J. H. Wilson. No. 1,382,585; June 21; v. 287; p. 540.
- Stoves, Incinerator attachment for gas-. H. J. Hoover. No. 1,388,521; Aug. 23; v. 289; p. 688.
- Stoves, Magazine attachment for. H. A. Storer. No. 1,379,484; May 24; v. 286; p. 774.
- Stoves Making firebacks for gas-. A. H. Humphrey. No. 1,396,209; Nov. 8.
- Stoves, Protecting-cover for. J. Janusonis. No. 1,370,113; Mar. 1; v. 284; p. 67.
- Stoves, Safety attachment for gas-. J. E. Cadigan. No. 1,398,888; Nov. 29.
- Stoves, Thermostat fuel-regulating device for gas-. B. E. Meacham and C. Munzner. No. 1,396,706; Nov. 8.
- Stoves, Water-heating device for oil-. A. L. Schaefer. No. 1,381,595; June 14; v. 287; p. 293.
- Stoves, Water-heating top for gas-. H. Young. No. 1,379,154; May 24; v. 286; p. 711.
- Stovepipe and chimney clamp. J. C. Teller. No. 1,399,672; Dec. 6.
- Stovepipe attachment. R. Brown. No. 1,365,150; Jan. 11; v. 282; p. 257.
- Stovepipe-clamp. P. L. Strange. No. 1,378,143; May 17; v. 286; p. 447.
- Stovepipe-cleaner. H. O. Sholdebrand. No. 1,400,241; Dec. 13.
- Stovepipe-collar. W. J. Koits. No. 1,372,355; Mar. 22; v. 284; p. 663.
- Stovepipe-fastener. E. H. Wolff. No. 1,391,646; Sept. 20; v. 290; p. 575.
- Stovepipe-holder. A. English. No. 1,368,709; Feb. 15; v. 283; p. 463.
- Stovepipe-holder. J. McCoy. No. 1,392,841; Oct. 4.
- Stovepipe-holder. G. H. Moffet. No. 1,369,831; Mar. 1; v. 284; p. 15.
- Stovepipe-joint. J. Watson. No. 1,376,364; Apr. 26; v. 285; p. 710.
- Stovepipe thimble attachment. H. Heffner. No. 1,399,619; Dec. 6.
- Stovepipes and the like, Joint for. E. M. Bayne. No. 1,365,884; Jan. 18; v. 282; p. 439.
- Straight-line knife. J. B. Gillespie. No. 1,379,973; May 31; v. 286; p. 940.
- Straightening and cutting-off machine, Wire. E. F. Suuster. No. 1,384,100; July 12; v. 288; p. 224.
- Straightening-machine. J. T. Moltrup. No. 1,382,309; June 21; v. 287; p. 487.
- Straight-edge. W. L. Clark. No. 1,375,649; Apr. 19; v. 285; p. 541.
- Straightedge. C. L. Neumeister. No. 1,396,274; Nov. 8.
- Strainer. L. Daniels. No. 1,370,292; Mar. 1; v. 284; p. 102.
- Strainer. W. Dixon. No. 1,392,000; Sept. 27; v. 290; p. 721.
- Strainer. W. S. Elliott. No. 1,380,114; May 31; v. 286; p. 967.
- Strainer. E. Garber. No. 1,370,425; Mar. 1; v. 284; p. 127.
- Strainer. W. B. Wills. No. 1,392,383; Oct. 4.
- Strainer and fat-separator, Combined. H. E. Lyons. No. 1,387,789; Aug. 16; v. 289; p. 487.
- Strainer, Electrically-heated oil-. W. B. Eckman. No. 1,395,949; Nov. 1.
- Strainer, Laundry-. L. J. Syverson. No. 1,374,338; Apr. 12; v. 285; p. 226.
- Strainer, Milk-. A. M. Lorentz. No. 1,393,031; Oct. 11.
- Strainer, Milk-. D. W. Ross. No. 1,390,815; Sept. 13; v. 290; p. 344.
- Strainer, Revolving suction-. J. W. Æ. Elling. No. 1,377,765; May 10; v. 286; p. 321.
- Strainer-stretcher. J. T. Barker. No. 1,385,899; July 26; v. 288; p. 751.
- Strainer, Water-. P. Mueller. No. 1,370,147; Mar. 1; v. 284; p. 74.
- Strap binder or lock and recording-check. A. A. Glisson. No. 1,380,472; June 7; v. 287; p. 28.
- Strap-fastening, Adjustable. F. Hirsh. No. 1,398,966; Dec. 6.
- Strap-holder. A. R. Johnson. No. 1,394,906; Oct. 25.
- Strap-holder, belt-fastener, &c. O. W. J. Chester. No. 1,391,879; Sept. 27; v. 290; p. 695.
- Strap-lock for containers. R. C. Griffith. No. 1,380,204; May 31; v. 286; p. 984.
- Strap, Reinforced suspender-. F. J. Wilder. No. 1,364,666; Jan. 4; v. 282; p. 119.
- Strap-wrench. W. Dufford. No. 1,396,411; Nov. 8.
- Straps for lengths, Catch device for adjusting. J. H. Lamont. No. 1,384,666; July 12; v. 288; p. 342.
- Straw, chaff, and hay loader. R. C. McFall. No. 1,366,270; Jan. 18; v. 282; p. 514.
- Straw-delivering mechanism. J. J. Mouawad. No. 1,396,720; Nov. 8.
- Straw-feeder. A. Bohnenblust. No. 1,375,204; Apr. 19; v. 285; p. 456.
- Straw-rack. E. F. Anderson. No. 1,388,912; Aug. 30; v. 289; p. 819.
- Straw-rack. C. E. Braddy. No. 1,386,048; Aug. 2; v. 289; p. 17.
- Straw-stack former. E. A. Roach. No. 1,377,365; May 10; v. 286; p. 246.
- Straw-spreader. H. A. Sorensen. No. 1,391,019; Sept. 20; v. 290; p. 448.
- Stream-deflector. J. M. Maher. No. 1,378,967; May 24; v. 286; p. 676.
- Street and sewer cleaning apparatus. E. O. Cartwright. No. 1,388,510; Aug. 23; v. 289; p. 686.



- Street-cleaning device. F. M. Grady. No. 1,375,505; Apr. 19; v. 285; p. 514.
- Street-indicator. W. L. Clarke, Jr. No. 1,398,771; Nov. 29.
- Street-indicator. A. D. Foster. No. 1,377,471; May 10; v. 286; p. 266.
- Street or station indicator. A. Dawer. No. 1,368,904; Feb. 15; v. 283; p. 500.
- Street or station indicator. A. F. Gaidos and F. H. Guy. No. 1,365,905; Jan. 18; v. 282; p. 443.
- Street-traffic signal. E. Buchanan. No. 1,378,320; May 17; v. 286; p. 480.
- Street-traffic signal. J. A. Cook. No. 1,375,280; Apr. 19; v. 285; p. 471.
- Stretcher. M. V. Hubbard. No. 1,396,208; Nov. 8.
- Stretcher. J. T. Owens. No. 1,384,630; July 12; v. 288; p. 334.
- Stretcher and presser, Trousers. A. V. Cassels. No. 1,368,894; Feb. 15; v. 283; p. 498.
- Stretcher, Skin-. S. and B. Friedman. No. 1,365,031; Jan. 11; v. 282; p. 235.
- Stretching and vulcanizing machine, Tire-band. J. L. G. Dykes. No. 1,370,102; Mar. 1; v. 284; p. 65.
- Stretching device, Wire-. C. L. Drew, and H. De Haven, Jr. No. 1,369,409; Feb. 22; v. 283; p. 637.
- Stretching laundered articles for drying, Apparatus for. A. O. Schramm. No. 1,369,552; Feb. 22; v. 283; p. 665.
- Stretching-machine. J. B. Hadaway and T. H. Seely. No. 1,387,430; Aug. 9; v. 289; p. 363.
- Stretching machine, Tire-band-. J. L. G. Dykes. No. 1,370,101; Mar. 1; v. 284; p. 65.
- Striking-machine. D. M. Kuchta and F. Ballou. No. 1,366,192; Jan. 18; v. 282; p. 498.
- String-cutter. O. Wedman. No. 1,384,651; July 12; v. 288; p. 339.
- String-truing machine. G. N. Einsele. No. 1,385,367; July 26; v. 288; p. 642.
- Stringed instrument. W. A. Vinson. No. 1,387,567; Aug. 16; v. 289; p. 442.
- Stringed instruments, Attachment for. A. Cherniavsky. No. 1,394,407; Oct. 18.
- Stringed instruments, Fingering attachment for. C. H. Reed. No. 1,574,386; Apr. 12; v. 285; p. 236.
- Stringed instruments, Fingering device for self-playing. H. K. Sandell. No. 1,381,508; June 14; v. 287; p. 276.
- Stringed instruments, Tailpiece for. W. I. Kirk. No. 1,367,526; Feb. 1; v. 283; p. 128.
- Stringer. J. F. Pritchett. No. 1,399,875; Dec. 13.
- Strip and wire tempering and annealing device, Electrically-heated. W. E. Moore. No. 1,386,645; Aug. 9; v. 289; p. 205.
- Strip, Cross furring-. L. J. Graff. No. 1,376,806; May 3; v. 286; p. 81.
- Strip cutting and sewing mechanism. W. W. Scott. No. 1,365,282; Jan. 11; v. 282; p. 283.
- Strip material, Means for marking wound. W. Strittmatter. No. 1,387,330; Aug. 9; v. 289; p. 343.
- Strip material, Reel for. E. B. Gager, Jr. No. 1,397,954; Nov. 22.
- Strip-perforator. M. C. Indahl. No. 1,378,414; May 17; v. 286; p. 497.
- Strip-serving device. F. S. Anable. No. 1,386,675; Aug. 9; v. 289; p. 212.
- Strip-serving device. F. S. Anable. No. 1,393,002; Oct. 11.
- Strip-serving device. C. G. Mortimer. No. 1,384,081; July 12; v. 288; p. 220.
- Strip-serving device. A. E. Rideout. No. 1,384,090; July 12; v. 288; p. 221.
- Strip-serving machine. C. G. Mortimer. No. 1,384,082; July 12; v. 288; p. 220.
- Strip-working. J. F. Gail. No. 1,364,271; Jan. 4; v. 282; p. 44.
- Strips, Clocking device for detail-. H. C. Burke. No. 1,393,342; Oct. 11.
- Strips, Device for forming eyes in metal. W. M. Stidworthy. No. 1,387,020; Aug. 9; v. 289; p. 282.
- Strips, Machine for drying. E. Ammann-Haberstich. No. 1,400,508; Dec. 20.
- Strips, Uniting wooden. A. L. Foreman. No. 1,368,222; Feb. 8; v. 283; p. 319.
- Stripping and husking machine. A. F. Pando. No. 1,379,208; May 24; v. 286; p. 722.
- Structural bolt. P. P. Bernhard. No. 1,373,045; Mar. 29; v. 284; p. 839.
- Stripping machine, Willow-bark-. G. Gerace. No. 1,399,957; Dec. 13.
- Stroboscopic system. R. E. Collis. No. 1,387,240; Aug. 9; v. 289; p. 323.
- Stroke-compelling device, Full-. G. H. Lyle. No. 1,378,701; May 17; v. 286; p. 553.
- Structural elements. R. Kemp. No. 1,393,541; Oct. 11.
- Structural unit. J. R. Lambert. No. 1,382,095; June 21; v. 287; p. 447.
- Structural work, Device for laying out. F. B. McKinney. No. 1,367,612; Feb. 8; v. 283; p. 202.
- Structure, Aeroplane-wing. C. E. Freund. No. 1,364,431; Jan. 4; v. 282; p. 75.
- Structure, Expandable and contractible. J. A. Weis. No. 1,392,669; Oct. 4.
- Structure, Knocked-down or portable. G. A. Falk. No. 1,374,994; Apr. 19; v. 285; p. 415.
- Structures, Removing discoloring deposits from masonry. D. Cadieux. No. 1,380,634; June 7; v. 287; p. 58.
- Strut, Floating reversible. A. W. Hawkins. No. 1,387,981; Aug. 16; v. 289; p. 524.
- Stud-bolt driver. J. P. Johnson. No. 1,373,617; Apr. 5; v. 285; p. 46.
- Stud-driver. F. A. Barnes and E. G. Hurlbut. No. 1,395,939; Nov. 1.
- Stud-driving wrench. H. A. Weichart. No. 1,384,417; July 12; v. 288; p. 289.
- Stud, Press-. B. Steiner. No. 1,376,298; Apr. 26; v. 285; p. 697.
- Stud-setting machine with reinforcing-tape therefor, Lacing-. S. G. Blessington and A. H. Cosgrove. No. 1,377,657; May 10; v. 286; p. 300.
- Stud, Snap-fastener. W. Jaquiere. No. 1,373,076; Mar. 29; v. 284; p. 845.
- Study-chair, Movable and adjustable. G. Perin. No. 1,377,599; May 10; v. 286; p. 289.
- Stuff-regulator. L. B. Decker. No. 1,374,286; Apr. 12; v. 285; p. 216.
- Stuffing-box. R. Rogers and M. Groves. No. 1,400,991; Dec. 20.
- Stump-chopping machine. J. Lynch and C. McGuire. No. 1,391,131; Sept. 20; v. 290; p. 470.
- Stump-extractor. D. D. Roberts. No. 1,372,551; Mar. 22; v. 284; p. 700.
- Stump-puller. W. W. Bissell. No. 1,399,244; Dec. 6.
- Stump-puller. A. Dow. No. 1,384,384; July 12; v. 288; p. 283.
- Stump-puller. J. K. Flynn. No. 1,394,544; Oct. 25.
- Stump-puller. A. M. McClellan. No. 1,370,465; Mar. 1; v. 284; p. 132.
- Stump-puller. M. Ness. No. 1,366,885; Jan. 25; v. 282; p. 680.
- Stump-puller. J. W. Nissrod. No. 1,396,657; Nov. 8.
- Stump-puller. J. H. Rosemeyer. No. 1,383,666; July 5; v. 288; p. 85.
- Stump-puller. W. W. Stoppie. No. 1,380,748; June 7; v. 287; p. 81.
- Stump-puller, Motor-power. G. H. Hines. No. 1,369,657; Feb. 22; v. 283; p. 635.
- Stump-pulling apparatus. S. Thoresen. No. 1,399,092; Dec. 6.
- Stump-pulling apparatus. W. C. F. Zimmermann, Jr. No. 1,364,345; Jan. 4; v. 282; p. 58.
- Stump-pulling mechanism. W. K. A. Paloheimo. No. 1,383,995; July 5; v. 288; p. 153.
- Styl and products thereof, Making. B. E. Eldred. No. 1,396,412; Nov. 8.
- Stylus bar mounting. H. J. Durborow. No. 1,378,097; May 17; v. 286; p. 438.
- Stylus-bar mounting for reproducers. D. H. Wilson. No. 1,390,964; Sept. 13; v. 290; p. 375.
- Stylus-picker. B. F. Hutches, Jr. No. 1,368,728; Feb. 15; v. 283; p. 466.
- Stylus, Recording. K. Rammelsberg. No. 1,373,635; Apr. 5; v. 285; p. 49.
- Subaqueous structure and method. D. E. Moran. No. 1,394,571; Oct. 25.
- Submarine armor. J. Kamleniecki. No. 1,370,590; Mar. 8; v. 284; p. 203.
- Submarine depth control. A. Hoar. No. 1,373,329; Mar. 29; v. 284; p. 896.
- Submarine-destroyer. C. J. Lindquist. No. 1,376,105; Apr. 26; v. 285; p. 661.
- Submarine grapple. A. J. Maynard. No. 1,374,512; Apr. 12; v. 285; p. 261.
- Submarine listening apparatus. G. Walser. No. 1,391,654; Sept. 20; v. 290; p. 576.
- Submarine mine. H. G. Dorsey. No. 1,390,768; Sept. 13; v. 290; p. 335.
- Submarine mine. S. P. Fullinwider. No. 1,372,617; Mar. 22; v. 284; p. 712.
- Submarine mine, Magnetic firing mechanism for. H. Maxim. No. 1,389,566; Aug. 30; v. 289; p. 950.
- Submarine operations, Diving-chamber for. A. O. Tesch. No. 1,380,750; June 7; v. 287; p. 81.
- Submarine propulsion system. R. V. Morse. No. 1,367,708; Feb. 8; v. 283; p. 221.
- Submarine rescue craft. A. J. Collins. No. 1,399,196; Dec. 6.
- Submarine salvaging and exploring apparatus. S. Lake. No. 1,379,928; May 31; v. 286; p. 931.
- Submarine signaling. R. D. Fay. No. 1,380,869; June 7; v. 287; p. 105.
- Submarine signaling. R. A. Fessenden. No. 1,394,482; Oct. 18.
- Submarine signaling. R. L. Wegel. No. 1,393,471; Oct. 11.
- Submarine signaling, Method and apparatus for. R. A. Fessenden. No. 1,394,483; Oct. 18.
- Submarine signaling, Method and apparatus for. R. A. Fessenden. No. 1,397,949; Nov. 22.
- Submarine sound detection. E. Merritt. No. 1,378,420; May 17; v. 286; p. 499.
- Submarine sound-detector. T. Bodde. No. 1,371,728; Mar. 15; v. 284; p. 486.
- Submarine telephonic transmitter. H. R. Gilson. No. 1,400,283; Dec. 13.
- Submarine-trap. E. V. Hartford. No. 1,365,490; Jan. 11; v. 282; p. 322.
- Submarine-vessel propulsion. F. E. Norton. No. 1,370,304; May 31; v. 286; p. 1002.
- Submarines, Disappearing gun for. T. M. Gunn. No. 1,376,536; May 3; v. 286; p. 29.
- Submarines, Observation apparatus for. E. A. Sperry. No. 1,393,844; Oct. 18.



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- Submerged objects, Device for locating. W. F. Mercer. No. 1,367,415; Feb. 1; v. 283; p. 106.
- Submerged objects, such as submarine torpedoes, Towing. F. P. Magoun. No. 1,395,924; Nov. 1.
- Submerged or partially-submerged obstructions, Apparatus for offense or defense against. C. D. Burney. No. 1,400,211; Dec. 13.
- Submersible bodies to rise or sink, Device for causing. E. H. Meden. No. 1,379,273; May 24; v. 286; p. 734.
- Submersible motor. W. Baum. No. 1,380,943; June 7; v. 287; p. 119.
- Substation, Automatically-controlled vapor-converter. W. V. Lovell. No. 1,389,147; Aug. 30; v. 289; p. 866.
- Substation, Common-battery. K. S. Johnson. No. 1,399,775; Dec. 13.
- Subterranean streams, Controlling. E. Murray. No. 1,374,945; Apr. 19; v. 285; p. 406.
- Sucker-rod coupling. J. C. Axelsson. No. 1,401,302; Dec. 27.
- Suction-actuated pumping device. W. Jay. No. 1,390,617; Sept. 13; v. 290; p. 305.
- Suction-burner. G. Bellon. No. 1,369,605; Feb. 22; v. 283; p. 675.
- Suction-cleaner. H. E. Hoover. No. 1,364,761; Jan. 4; v. 282; p. 138.
- Suction-cleaner. W. W. Rosenfield. No. 1,394,940; Oct. 25.
- Suction cleaning device. F. E. Robertson. No. 1,382,548; June 21; v. 287; p. 533.
- Suction-creating apparatus. B. Skidmore, Jr. No. 1,382,444; June 21; v. 287; p. 514.
- Suction-feed. T. A. Edison, Jr. No. 1,389,425; Aug. 30; v. 289; p. 922.
- Suction gas-generator. J. Franklin. No. 1,382,074; June 21; v. 287; p. 443.
- Suction gas-generator. S. Phillips. No. 1,382,118; June 21; v. 287; p. 451.
- Suction-inducing and fuel-feeding device. J. C. Coulombe. No. 1,365,661; Jan. 18; v. 282; p. 394.
- Suction-lifting implement. W. Stader. No. 1,400,573; Dec. 20.
- Suction or blowing apparatus. I. H. Spencer. No. 1,377,998; May 10; v. 286; p. 367.
- Suction-washer. M. Manfred. No. 1,391,265; Sept. 20; v. 290; p. 498.
- Sugar and preparing the same, Composition of. N. C. Fowler, Jr. No. 1,374,160; Apr. 5; v. 285; p. 151.
- Sugar-cane cutter. M. Wertheim. No. 1,392,377; Oct. 4.
- Sugar-cane mill. M. G. Fernandez. No. 1,390,693; Sept. 13; v. 290; p. 320.
- Sugar-cane mill. C. McNeil. No. 1,365,521; Jan. 11; v. 282; p. 328.
- Sugar-cane, Treatment of. F. H. Lindenberg. No. 1,369,180; Feb. 22; v. 283; p. 592.
- Sugar-centrifugals, Discharger for. E. Daniels. No. 1,388,173; Aug. 23; v. 289; p. 618.
- Sugar container and dispenser. S. E. E. Bache. No. 1,386,221; Aug. 2; v. 289; p. 52.
- Sugar direct from the juice, Manufacture of. E. Delafond. No. 1,371,997; Mar. 15; v. 284; p. 537.
- Sugar-dispenser. W. Malusz. No. 1,400,757; Dec. 20.
- Sugar dispensing and weighing container. H. M. Bigelow. No. 1,400,790; Dec. 20.
- Sugar loaves molded by compression, Machine for manufacturing. A. Bolvin. No. 1,379,847; May 31; v. 286; p. 916.
- Sugar, Manufacture of milk-. R. W. Mumford. No. 1,366,822; Jan. 25; v. 282; p. 668.
- Sugar mill, Cane-. J. Meinecke. No. 1,401,095; Dec. 20.
- Sugar packing and boxing machine. R. Laborda. No. 1,367,821; Feb. 8; v. 283; p. 243.
- Sugar-packing machine, Lump-. G. Iacobitti. No. 1,377,775; May 10; v. 286; p. 323.
- Sugar, Systematically sulfuring the juices obtained during the manufacture of. M. v. Wierusz-Kowalski. No. 1,399,533; Dec. 6.
- Sugar-washing machine, Continuous. E. C. Carrick. No. 1,367,946; Feb. 8; v. 283; p. 266.
- Suit, Bathing-. C. C. Jantzen. No. 1,390,135; Sept. 6; v. 290; p. 116.
- Suit, Combination-. S. Gardl. No. 1,367,182; Feb. 1; v. 283; p. 182.
- Suit, Comedian's. I. W. Gruhl. No. 1,373,423; Apr. 5; v. 285; p. 8.
- Suit, Protective. J. E. Dade. No. 1,401,677; Dec. 27.
- Suit, Union-. W. L. Pendergrass. No. 1,398,443; Nov. 29.
- Suit, Union-. C. N. Winship. No. 1,389,922; Sept. 6; v. 290; p. 74.
- Suitcase. M. Calkin. No. 1,372,274; Mar. 22; v. 284; p. 647.
- Suitcase. B. Elliott. No. 1,393,273; Oct. 11.
- Suitcase. C. Fasel and W. W. Garland. No. 1,382,964; June 28; v. 287; p. 666.
- Suitcase. S. Grossman. No. 1,397,374; Nov. 15.
- Suitcase. W. N. Haskell. No. 1,367,043; Feb. 1; v. 283; p. 32.
- Suitcase, Collapsible. C. A. Fettes. No. 1,387,597; Aug. 16; v. 289; p. 448.
- Suitcase-lock. E. H. Shaff. No. 1,392,531; Oct. 4.
- Suitcases, Hinge structure for. A. Kahlow. No. 1,367,978; Feb. 8; v. 283; p. 272.
- Sulfate, Making basic zirconium. E. J. Pugh. No. 1,376,161; Apr. 26; v. 285; p. 671.
- Sulfate of lime, Treatment of liquids containing. H. J. Bull. No. 1,399,845; Dec. 13.
- Sulfates and washing the split products, Splitting double. G. N. Vis. No. 1,364,822; Jan. 4; v. 282; p. 149.
- Sulfite-cellulose factories, Treating waste liquor from. R. W. Strehlenert. No. 1,384,219; July 12; v. 288; p. 248.
- Sulfite cellulose, Production of high-percentage. E. Bronnert. No. 1,392,047; Sept. 27; v. 290; p. 730.
- Sulfite liquor and compound obtained therefrom, Treating waste. W. H. Dickerson. No. 1,394,151; Oct. 18.
- Sulfite liquors and products obtained therefrom, Treating waste. W. H. Dickerson. No. 1,397,039; Nov. 15.
- Sulfite or sulfate digesters, Short-time digesting in. J. K. Ruths. No. 1,368,577; Feb. 15; v. 283; p. 437.
- Sulfonated resin and making the same. A. Horwitz. No. 1,373,886; Apr. 5; v. 285; p. 99.
- Sulfur and rubber and vulcanizing, Compounding lubricated. D. Repony. No. 1,372,041; Mar. 22; v. 284; p. 603.
- Sulfur, Apparatus for the manufacture of oxygen compounds of. T. A. Clayton. No. 1,364,716; Jan. 4; v. 282; p. 129.
- Sulfur-black. A. C. Burrage, Jr., and G. Meisel. No. 1,383,072; June 28; v. 287; p. 687.
- Sulfur-black and the product thereof, Preparing. A. C. Burrage, Jr., and G. Meisel. No. 1,383,071; June 28; v. 287; p. 687.
- Sulfur-burners, Attachment for. J. B. Crandon. No. 1,397,724; Nov. 22.
- Sulfur-burners, Feeding device for. F. B. Chappell. No. 1,370,627; Mar. 8; v. 284; p. 211.
- Sulfur-burners, Ventilating-sleeve for. F. B. Chappell. No. 1,371,223; Mar. 15; v. 284; p. 387.
- Sulfur, Distillation of. H. S. Davis and W. A. Hamor. No. 1,398,960; Dec. 6.
- Sulfur dioxide and catalyst therefor, Oxidation of. F. Slama and H. Wolf. No. 1,371,004; Mar. 8; v. 284; p. 282.
- Sulfur dioxide, Recovering. W. H. Howard. No. 1,377,012; May 3; v. 286; p. 120.
- Sulfur, Method of and apparatus for treating and handling. F. J. Hill. No. 1,397,099; Nov. 15.
- Sulfur, Mining. A. T. Drachenberg. No. 1,401,593; Dec. 27.
- Sulfur, Purifying. E. F. White. No. 1,396,485; Nov. 8.
- Sulfur, Refining. R. F. Bacon and C. N. Wenrich. No. 1,378,084; May 17; v. 286; p. 435.
- Sulfur, Treatment of mined. R. F. Bacon and H. S. Davis. No. 1,374,897; Apr. 19; v. 285; p. 397.
- Sulfur, Treatment of mined. R. F. Bacon and H. S. Davis. No. 1,374,898; Apr. 19; v. 285; p. 397.
- Sulfur trioxid and apparatus therefor, Making. H. M. Weber. No. 1,366,439; Jan. 25; v. 282; p. 591.
- Sulfuric acid, Concentration of. E. Hansen. No. 1,379,260; May 24; v. 286; p. 731.
- Sulfuric acid, Making contact. H. F. Merriam. No. 1,384,566; July 12; v. 288; p. 321.
- Sulfuric acid without chambers and towers, Production of. T. Schmiedel. No. 1,399,526; Dec. 6.
- Summating device. W. E. McCoy. No. 1,368,343; Feb. 15; v. 283; p. 391.
- Sun-dial. C. D. Love. No. 1,396,937; Nov. 15.
- Sunshade. O. Maurer. No. 1,370,546; Mar. 8; v. 284; p. 195.
- Superheat-regulator. B. Broido. No. 1,387,463; Aug. 16; v. 289; p. 420.
- Superheated-steam boiler. E. R. Fish. No. 1,390,771; Sept. 13; v. 290; p. 335.
- Superheater. J. A. Barnes. No. 1,400,853; Dec. 20.
- Superheater. F. W. Foppoby. No. 1,401,063; Dec. 20.
- Superheater. W. G. Landon. No. 1,390,046; Sept. 6; v. 290; p. 98.
- Superheater. N. T. McKee. No. 1,395,131; Oct. 25.
- Superheater-boiler. B. Broido. No. 1,387,464; Aug. 16; v. 289; p. 420.
- Superheater boiler. A. D. Pratt. (Reissue.) No. 15,210; Oct. 18.
- Superheater in steam-boilers. D. R. Ross. No. 1,392,080; Sept. 27; v. 290; p. 736.
- Superheater, Steam-. E. A. Geoghegan. No. 1,367,691; Feb. 8; v. 283; p. 217.
- Superheater, Steam-. C. A. Horn. No. 1,379,409; May 24; v. 286; p. 760.
- Superheater, Steam-. D. S. Jacobus. No. 1,399,773; Dec. 13.
- Superphosphate, Apparatus for use in manufacture of. F. W. R. Williams. No. 1,398,350; Nov. 29.
- Superphosphate, Manufacture of. A. L. Tuttle. No. 1,398,816; Nov. 29.
- Support. J. Dotti and H. G. Hart. No. 1,373,716; Apr. 5; v. 285; p. 65.
- Support. A. L. Howard. No. 1,382,783; June 28; v. 287; p. 632.
- Support. H. R. Menefee. No. 1,387,288; Aug. 9; v. 289; p. 324.
- Support. N. C. Nicol. No. 1,371,514; Mar. 15; v. 284; p. 445.
- Support. G. E. Stansbury and R. Harper. No. 1,381,761; June 14; v. 287; p. 325.
- Support. O. B. Stitzer. No. 1,380,121; May 31; v. 286; p. 968.



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- Support. W. T. Tanking, Jr. No. 1,393,052; Oct. 11.  
 Support, Adjustable. L. L. Gilcrease. No. 1,361,433; Jan. 4; v. 282; p. 75.  
 Support, Adjustable. A. R. Luschna and J. Polk. No. 1,391,311; Oct. 25.  
 Support, Adjustable. W. A. Parent. No. 1,396,777; Nov. 15.  
 Support, Collapsible. W. H. Horner. No. 1,369,662; Feb. 22; v. 283; p. 686.  
 Support for machinery, Resilient. K. O. Leon. No. 1,370,599; Mar. 8; v. 284; p. 205.  
 Support for testing purposes, Shaft. N. W. Akinoff. No. 1,370,440; Jan. 11; v. 282; p. 312.  
 Support or bracket, Adjustable. J. R. Oshel. No. 1,394,440; Oct. 18.  
 Support or holder. R. F. Ferguson. No. 1,366,528; Jan. 25; v. 282; p. 609.  
 Support, Packable. E. P. D'Arcy. No. 1,365,093; Jan. 11; v. 282; p. 245.  
 Support, Work-. C. C. Blake. No. 1,365,222; Jan. 11; v. 282; p. 270.  
 Supporter. A. B. Smith. No. 1,388,775; Aug. 23; v. 289; p. 737.  
 Supporter, Abdominal. I. N. Beery, Jr. No. 1,366,897; Feb. 1; v. 283; p. 3.  
 Supporter and protector. E. J. Thorp. No. 1,381,254; June 14; v. 287; p. 229.  
 Supporter, Garment-. M. and O. Olson. No. 1,370,606; Mar. 8; v. 284; p. 206.  
 Supporter, Resilient. M. M. Corey. No. 1,364,427; Jan. 4; v. 282; p. 74.  
 Supporting-bracket. C. E. Miller. No. 1,385,638; July 26; v. 288; p. 698.  
 Supporting device. J. Bakovich. No. 1,372,990; Mar. 29; v. 284; p. 829.  
 Supporting device, Extensible. J. R. Corbett. No. 1,370,732; Mar. 8; v. 284; p. 231.  
 Suppository. H. W. Rhodehamel. No. 1,366,941; Feb. 1; v. 283; p. 12.  
 Surface and center indicator. J. A. Ne'l. No. 1,380,580; June 7; v. 287; p. 48.  
 Surface coating machine. S. W. Bourn. No. 1,387,964; Aug. 16; v. 289; p. 521.  
 Surface-combustion furnace. F. J. Denk. No. 1,365,769; Jan. 18; v. 282; p. 416.  
 Surface-decorating. E. J. Greive. No. 1,388,426; Aug. 23; v. 289; p. 670.  
 Surface-grinding machine. J. C. Hansen. No. 1,387,646; Aug. 16; v. 289; p. 458.  
 Surface milling-cutter. R. W. Runde. No. 1,376,972; May 3; v. 286; p. 113.  
 Surface pin, Locked. O. Kartzmark. No. 1,371,901; Mar. 15; v. 284; p. 519.  
 Surface-plate. F. O. Hoagland. No. 1,383,629; July 5; v. 288; p. 77.  
 Surface-treating machines, Work-engaging support for. A. A. Clarke. No. 1,366,633; Jan. 25; v. 282; p. 630.  
 Surface, Wear-resisting. W. E. Hoke. No. 1,379,984; May 31; v. 286; p. 942.  
 Surfaces and angles, Instrument for inspecting and testing. F. G. H. Sjökvist and E. A. Eriksson. No. 1,365,286; Jan. 11; v. 282; p. 283.  
 Surfaces, Cleaning of metallic. T. A. Edison. No. 1,369,271; Feb. 22; v. 283; p. 610.  
 Surfaces, Machine for grinding articles with plane. M. A. Eaton. No. 1,377,117; May 3; v. 286; p. 141.  
 Surfaces on glass by means of metals in the platinum group, Production of reflecting. J. Rheinberg. No. 1,385,229; July 19; v. 288; p. 539.  
 Surfaces, Process of and apparatus for applying liquid to. C. E. Dunn. No. 1,377,009; May 3; v. 286; p. 120.  
 Surfacing-machine. A. E. Chappell. No. 1,369,125; Aug. 30; v. 289; p. 862.  
 Surfacing-machine. A. P. Meaker and I. F. Baker. No. 1,378,259; May 17; v. 286; p. 468.  
 Surfacing-machine for finishing metal surfaces. G. F. Henderson. No. 1,370,441; Mar. 1; v. 284; p. 130.  
 Surfacing machines, Tension means for floor-. H. H. Wolfe. No. 1,374,345; Apr. 12; v. 285; p. 228.  
 Surge-tank. A. A. Barton. No. 1,372,928; Mar. 29; v. 284; p. 816.  
 Surgery, Tension device for use in orthopedic. C. B. Hughes. No. 1,380,297; May 31; v. 286; p. 1001.  
 Surgical appliance. S. Ferragamo. No. 1,399,606; Dec. 6.  
 Surgical appliance. L. B. Hart. No. 1,383,944; July 5; v. 288; p. 142.  
 Surgical appliance. J. K. Mosby. No. 1,389,525; Aug. 30; v. 289; p. 940.  
 Surgical instrument. G. Ermold. (Reissue.) No. 15,071; Mar. 22; v. 284; p. 722.  
 Surgical instrument. J. A. Fulton. No. 1,376,754; May 3; v. 286; p. 70.  
 Surgical instrument. A. E. Goodloe. No. 1,397,732; Nov. 22.  
 Surgical instrument. H. Kruesheld and A. J. Walter. No. 1,401,101; Dec. 20.  
 Surgical operations on the eye, Apparatus for use in. E. R. Crossley. No. 1,375,445; Apr. 19; v. 285; p. 502.  
 Surgical or orthopedic appliance for the treatment of the ankle. G. Gassette. No. 1,383,928; July 5; v. 288; p. 139.  
 Surgical splint. A. L. Cotton. No. 1,389,741; Sept. 6; v. 290; p. 56.  
 Surgical suture. C. T. Davis. No. 1,382,715; June 28; v. 287; p. 619.  
 Surgical wound-dam. W. H. Taylor. No. 1,379,660; May 31; v. 286; p. 882.  
 Surgical wound-dam. W. H. Taylor. No. 1,385,346; July 19; v. 288; p. 562.  
 Surveying and other instruments, Fine-motion device for. E. G. Fischer. No. 1,376,327; Apr. 26; v. 285; p. 703.  
 Surveying instrument. J. Rosales. No. 1,380,333; May 31; v. 286; p. 1008.  
 Surveying instrument. F. E. Vaughan. No. 1,401,380; Dec. 27.  
 Suspender connection. M. Starmer. No. 1,383,164; June 28; v. 287; p. 704.  
 Suspender, Stocking-. E. A. Gover. No. 1,394,822; Oct. 25.  
 Suspenders. D. Glickman. No. 1,392,935; Oct. 11.  
 Suspenders. W. E. Hedger. No. 1,365,493; Jan. 11; v. 282; p. 323.  
 Suspenders. W. H. Stevens. No. 1,365,862; Jan. 18; v. 282; p. 435.  
 Suspenders. V. R. Strader. No. 1,388,213; Aug. 23; v. 289; p. 626.  
 Suspenders, Concealed. A. H. Graves. No. 1,398,962; Dec. 6.  
 Suspending a mass, Coupling means for releasably. G. A. Wearham. No. 1,383,252; June 28; v. 287; p. 721.  
 Suspension apparatus. N. F. Rutherford. No. 1,391,794; Sept. 27; v. 290; p. 677.  
 Suspension-clamp. W. S. Mayer. No. 1,385,698; July 26; v. 288; p. 711.  
 Suspension device. I. M. Jacobs and W. Cramer. No. 1,391,735; Sept. 27; v. 290; p. 666.  
 Suspension-hook. C. F. Walp, A. J. Hicks, and F. O. Reedy. No. 1,388,132; Aug. 16; v. 289; p. 554.  
 Suspension, Separating solid particles from. N. Pedersen. No. 1,376,459; May 3; v. 286; p. 16.  
 Suspension-wheel. W. F. J. Goersch. No. 1,389,826; Sept. 6; v. 290; p. 53.  
 Suture-package. C. T. Davis. No. 1,371,668; Mar. 15; v. 284; p. 475.  
 Swab. W. F. Lerch. No. 1,388,960; Aug. 30; v. 289; p. 829.  
 Swab, Surgical. W. H. Sharp. No. 1,375,861; Apr. 26; v. 285; p. 613.  
 Swage-bits, Tool for restoring. E. A. Burpee. No. 1,378,006; May 17; v. 286; p. 420.  
 Swaging and forging press. L. W. Heath and H. D. Cook. No. 1,392,328; Oct. 4.  
 Swatch. B. Weinberger. No. 1,387,572; Aug. 16; v. 289; p. 443.  
 Sweatband. S. Doyne and S. Kaval. No. 1,372,342; Mar. 22; v. 284; p. 660.  
 Sweatband. C. M. Tipograph. No. 1,392,539; Oct. 4.  
 Sweatband-protector. J. Martin. No. 1,391,902; Sept. 27; v. 290; p. 700.  
 Sweeper, Carpet-. T. Dickinson. No. 1,390,099; Sept. 6; v. 290; p. 109.  
 Sweeper, Crumb-. M. Frankel, W. Aisenstein, and J. A. Obermaier. No. 1,371,615; Mar. 15; v. 284; p. 465.  
 Sweeper, Motor-driven street-. C. W. Lund. No. 1,374,933; Apr. 19; v. 285; p. 403.  
 Sweeper, Rotary-brush. O. R. Strome. No. 1,383,440; July 5; v. 288; p. 38.  
 Sweeper, Street-. E. V. French. No. 1,371,885; Mar. 15; v. 284; p. 516.  
 Sweeper, Street-. W. S. Guyon. No. 1,383,625; July 5; v. 288; p. 76.  
 Sweeper, Street-. F. C. Hoffer, and J. F. Smedley. No. 1,369,106; Feb. 22; v. 283; p. 579.  
 Sweeper, Street-. T. McDougall and J. F. Smedley. No. 1,369,118; Feb. 22; v. 283; p. 581.  
 Sweeper, Street-. M. Zawada. No. 1,370,869; Mar. 8; v. 284; p. 287.  
 Sweeper, Suction-. H. E. Hoover. No. 1,364,554; Jan. 4; v. 282; p. 98.  
 Sweeper, Suction-. A. F. Staples. No. 1,401,007; Dec. 20.  
 Sweeper, Vacuum-. W. H. Yerkes. No. 1,366,998; Feb. 1; v. 283; p. 23.  
 Sweepers, Bag for suction-. H. E. Hoover. No. 1,380,907; June 7; v. 287; p. 112.  
 Sweepers, Brush-cleaner for carpet-. H. L. Davis. No. 1,381,973; June 21; v. 287; p. 425.  
 Sweepers, Brushing mechanism for. J. B. Kirby. No. 1,395,500; Nov. 1.  
 Sweepers, Cleaning device for suction-. H. E. Hoover. No. 1,372,622; Mar. 22; v. 284; p. 713.  
 Sweetmeats, &c., Machine for wrapping. H. Hackett, A. Smith, and C. Southall. No. 1,392,683; Oct. 4.  
 Swift. W. C. Keyworth. No. 1,365,248; Jan. 11; v. 282; p. 275.  
 Swift, Adjustable. A. E. Anderson. No. 1,401,123; Dec. 27.  
 Swill-distributor. A. H. Neller. No. 1,373,521; Apr. 5; v. 285; p. 28.  
 Swim apparatus, Dry-. G. A. Fischer. No. 1,395,672; Nov. 1.  
 Swim, Device for use in learning to. G. Jordahn. No. 1,368,937; Feb. 15; v. 283; p. 506.  
 Swimming appliance. B. Deri. No. 1,398,130; Nov. 22.  
 Swimming device. O. Grundmann. No. 1,374,077; Apr. 5; v. 285; p. 136.  
 Swimming device. O. W. Grundmann. No. 1,395,914; Nov. 1.  
 Swimming appliance. L. P. Sifford. No. 1,383,036; June 28; v. 287; p. 680.



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- Swing: See—  
 Baby-swing. Toy aerial swing.  
 Lawn-swing.  
 Swing. N. A. Archibald. No. 1,391,874; Sept. 27; v. 290; p. 694.  
 Swing. C. J. Clouser. No. 1,390,502; Sept. 13; v. 290; p. 281.  
 Swing. J. F. Gushman. No. 1,393,774; Oct. 18.  
 Swing. J. Hayes. No. 1,368,146; Feb. 8; v. 283; p. 304.  
 Swing. J. E. Holland. No. 1,379,566; May 24; v. 286; p. 789.  
 Swing. T. E. Jordan. No. 1,369,747; Feb. 22; v. 283; p. 703.  
 Swing. H. Ozlek. No. 1,396,776; Nov. 15.  
 Swing. B. H. Witte. No. 1,391,153; Sept. 20; v. 290; p. 475.  
 Swing. C. N. Nelson. No. 1,369,834; Mar. 1; v. 284; p. 15.  
 Swing and couch, Convertible porch. C. A. Neiswender and W. C. Wenthe. No. 1,396,774; Nov. 15.  
 Swing and high chair, Combination. L. J. Loff. No. 1,377,422; May 10; v. 286; p. 256.  
 Swing, Child's. J. A. Eberle. No. 1,401,595; Dec. 27.  
 Swing, Child's. G. W. Gardner. No. 1,369,709; Mar. 1; v. 284; p. 9.  
 Swing, Circle. J. Metzger. No. 1,368,568; Feb. 15; v. 283; p. 435.  
 Swing-hanger. A. J. Nuss. No. 1,373,259; Mar. 22; v. 284; p. 881.  
 Swing, Lawn. G. H. Bugenhagen. No. 1,364,610; Jan. 4; v. 282; p. 108.  
 Swing or hammock hanger. W. B. Taylor. No. 1,389,538; Aug. 30; v. 289; p. 944.  
 Swingletree. S. A. Donaldson. No. 1,368,123; Feb. 8; v. 283; p. 300.  
 Switch: See—  
 Air-brake switch. Low-voltage release-switch.  
 Automatic switch. Meter-testing switch.  
 Automatic light-switch. Mine-switch.  
 Automatic railway-switch. Motor-starting switch.  
 Automobile switch. Oil-switch.  
 Automobile signal-switch. Oil-break electric switch.  
 Bellows-actuated switch. Overhead tramway-switch.  
 Centrifugal switch. Overload-switch.  
 Coin - controlled electric switch. Pipe switch.  
 Cut-out switch. Pole-top switch.  
 Dimmer-switch. Pull-switch.  
 Disconnecting-switch. Pyrometer-switch.  
 Distributing-switch. Quick-break switch.  
 Electric switch. Quick-break double-throw switch.  
 Electric - circuit - breaking switch. Quick-break double-throw-back switch.  
 Electric railway-switch. Railway-switch.  
 Electric-range switch. Receiver-hook switch.  
 Electric signal-switch. Resistance-switch.  
 Electric snap-switch. Reversing-switch.  
 Electric wall-switch. Rotary switch.  
 Electrical switch. Safety-switch.  
 Electrical limit-switch. Safety starting-switch.  
 Electrical wall-switch. Selective switch.  
 Electromagnet switch. Sliding switch.  
 Hand-lamp switch. Snap-switch.  
 High-voltage disconnecting-switch. Spring-switch.  
 Ignition-switch. Telephone-switch.  
 Inclosed switch. Thermostatic switch.  
 Knife-switch. Three-way switch.  
 Lamp-switch. Time-controlled switch.  
 Limit-switch. Time - controlled electric switch.  
 Lock-switch. Track-switch.  
 Locking-switch. Trolley-wire switch.  
 Switch. E. Alschuler. No. 1,389,088; Aug. 30; v. 289; p. 855.  
 Switch. E. O. Anderson. No. 1,398,533; Nov. 29.  
 Switch. J. M. Brown. No. 1,385,981; Aug. 2; v. 289; p. 3.  
 Switch. S. B. Cohen. No. 1,370,189; Mar. 1; v. 284; p. 82.  
 Switch. L. W. Crompton and W. J. Graham. No. 1,364,355; Jan. 4; v. 282; p. 60.  
 Switch. C. F. Cuno. No. 1,378,660; May 17; v. 286; p. 545.  
 Switch. G. C. and F. A. Day. No. 1,373,309; Mar. 29; v. 284; p. 891.  
 Switch. E. H. Jacobs. No. 1,375,155; Apr. 19; v. 285; p. 447.  
 Switch. H. D. James. No. 1,389,141; Aug. 30; v. 289; p. 865.  
 Switch. J. H. Kuhns. No. 1,373,008; Mar. 29; v. 284; p. 832.  
 Switch. J. N. Mahoney and G. L. Christman. No. 1,381,320; June 14; v. 287; p. 241.  
 Switch. F. A. Manau. No. 1,399,781; Dec. 13.  
 Switch. A. H. Perry. No. 1,393,312; Oct. 11.  
 Switch. F. S. Riggs. No. 1,389,899; Sept. 6; v. 290; p. 69.  
 Switch. L. S. Suthff. No. 1,392,665; Oct. 4.  
 Switch. O. A. Ware. No. 1,391,924; Sept. 27; v. 290; p. 704.  
 Switch and distributing-panel, Combination. O. T. Sweet. No. 1,391,916; Sept. 27; v. 290; p. 703.  
 Switch and signal, Railway. P. P. Bradley and C. E. Lindsey. No. 1,370,780; Mar. 8; v. 284; p. 240.  
 Switch-arm. W. M. Brown, E. B. Entwistle, and H. C. Stiff. No. 1,373,406; Apr. 5; v. 285; p. 5.  
 Switch-blade and process. H. Krantz. No. 1,399,491; Dec. 6.  
 Switch-blade, Double. H. Krantz. No. 1,399,492; Dec. 6.  
 Switch-box. C. H. Kuhlman. No. 1,393,794; Oct. 18.  
 Switch, Combination lighting and ignition. W. Kalsling. No. 1,399,017; Dec. 6.  
 Switch construction, Inclosed. B. E. Getchell. No. 1,393,111; Oct. 11.  
 Switch control, Power-actuated system of. G. B. Gray and A. G. Williamson. No. 1,377,200; May 10; v. 286; p. 211.  
 Switch device, Non-arcng commutating. L. Paulero. No. 1,395,290; Nov. 1.  
 Switch-hinge and heel-plate. D. A. Brown. No. 1,371,851; Mar. 15; v. 284; p. 510.  
 Switch lever and lock, Safety. L. J. Cotton. No. 1,375,035; Apr. 19; v. 285; p. 424.  
 Switch-lever-operating mechanism. H. D. Blumenfeld. No. 1,377,053; May 3; v. 286; p. 129.  
 Switch-lock. G. A. Cokely and M. D. Crawford. No. 1,396,095; Nov. 8.  
 Switch-lock. E. A. Halbleib. No. 1,395,493; Nov. 1.  
 Switch-lock. H. P. Liversidge. No. 1,387,787; Aug. 16; v. 289; p. 487.  
 Switch-lock. J. M. Morrison. No. 1,381,732; June 14; v. 287; p. 320.  
 Switch-lock, Safety. A. H. MacMinn and W. H. Graham. No. 1,399,221; Dec. 6.  
 Switch-machine. W. K. Howe, W. S. Henry, and F. N. Hall. No. 1,373,073; Mar. 29; v. 284; p. 844.  
 Switch-machine. M. Wuerpel. No. 1,370,576; Mar. 8; v. 284; p. 201.  
 Switch mechanism. H. F. Krantz. No. 1,379,767; May 31; v. 286; p. 901.  
 Switch mechanism. H. F. Krantz. (Reissue.) No. 15,152; July 12; v. 288; p. 357.  
 Switch mechanism. H. F. Krantz. No. 1,399,493; Dec. 6.  
 Switch mechanism. H. F. Krantz. No. 1,399,495; Dec. 6.  
 Switch mechanism. H. F. Krantz. No. 1,399,499; Dec. 6.  
 Switch mechanism, Electrically-controlled. W. G. Hartwig. No. 1,399,116; Dec. 6.  
 Switch mechanism, Safety. H. F. Krantz. No. 1,399,498; Dec. 6.  
 Switch mechanism, Supporting bracket for. H. F. Krantz. No. 1,399,497; Dec. 6.  
 Switch-mounting. H. L. Van Valkenburg. No. 1,391,809; Sept. 27; v. 290; p. 680.  
 Switch operating and locking device. J. L. Beil. No. 1,366,350; Jan. 25; v. 282; p. 573.  
 Switch-operating device. A. Blake. No. 1,383,903; July 5; v. 288; p. 133.  
 Switch-operating device. W. J. Ettinger. No. 1,397,245; Nov. 15.  
 Switch-operating device, Safety. H. F. Krantz. No. 1,399,494; Dec. 6.  
 Switch-operating means, Automatic. M. T. Jackson. No. 1,394,416; Oct. 18.  
 Switch-operating mechanism. W. M. Brown. No. 1,399,540; Dec. 6.  
 Switch-operating mechanism. R. V. Collins. No. 1,394,713; Oct. 25.  
 Switch-operating mechanism. C. Makoben. No. 1,381,723; June 14; v. 287; p. 818.  
 Switch-operating mechanism. C. R. Peddle and J. M. Waldron. No. 1,375,537; Apr. 19; v. 285; p. 519.  
 Switch-operator. O. Maki and K. Arlin. No. 1,392,188; Sept. 27; v. 290; p. 758.  
 Switch or receptacle box. W. J. Newton. No. 1,386,421; Aug. 2; v. 289; p. 90.  
 Switch-point filler-block. F. H. Dorsey. No. 1,370,792; Mar. 8; v. 284; p. 243.  
 Switch-point-locking device, Automatic. J. K. Burress. No. 1,393,662; Oct. 11.  
 Switch protector, Emergency. F. A. Boedcher. No. 1,367,854; Feb. 8; v. 283; p. 240.  
 Switch-rail. E. N. Johnson. No. 1,393,538; Oct. 11.  
 Switch-stand. F. C. Anderson. No. 1,389,730; Sept. 6; v. 290; p. 34.  
 Switch-stand. C. W. Breed. No. 1,380,037; May 31; v. 286; p. 952.  
 Switch-stand. F. A. Cantwell. No. 1,366,356; Jan. 25; v. 282; p. 574.  
 Switch-stand. L. Hersh. No. 1,395,184; Oct. 25.  
 Switch-stand. C. Partington. No. 1,391,208; Sept. 20; v. 290; p. 486.  
 Switch-stand. C. Partington. No. 1,395,865; Nov. 1.  
 Switch-stand. N. E. Salsich. No. 1,384,488; July 12; v. 288; p. 304.  
 Switch-stand. E. N. Strom and M. L. Erikson. No. 1,373,031; Mar. 29; v. 284; p. 836.  
 Switch stand and lock. J. R. Drumm and C. Gladly. No. 1,371,202; Mar. 8; v. 284; p. 320.  
 Switch-stand lock. N. J. Beckner. No. 1,384,505; July 12; v. 288; p. 307.  
 Switch-stands, Double automatic latch for. F. C. Anderson. No. 1,396,946; Nov. 15.  
 Switch-stands, Safety - lock for. C. H. Severs. No. 1,399,808; Dec. 13.



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- Switch-throw. P. Burkleca. No. 1,393,496; Oct. 11.  
 Switch-throws, Connecting-rod for. C. H. Partington. No. 1,383,334; July 5; v. 288; p. 15.  
 Switch-throwing device, Railway-. A. J. Linley. No. 1,398,332; Nov. 29.  
 Switches and the like, Device for heating. J. Greer. No. 1,388,997; Aug. 30; v. 289; p. 837.  
 Switches, Flexible joint for double. J. L. Chaplin. No. 1,373,302; Mar. 29; v. 284; p. 890.  
 Switches, &c., Lock for. O. F. Conklin. No. 1,391,940; Sept. 27; v. 290; p. 708.  
 Switches, &c., Mechanical movement for electric. W. A. Behrens. No. 1,368,228; Feb. 8; v. 283; p. 320.  
 Switches, &c., Mechanical movement for electric. W. A. Behrens. No. 1,368,992; Feb. 15; v. 283; p. 516.  
 Switches, Outside lock-off and center stop for. A. Oakes. No. 1,383,558; July 5; v. 288; p. 62.  
 Switchboard, Automatic. A. W. Myers. No. 1,366,202; Jan. 18; v. 282; p. 500.  
 Switchboard, Semimechanical. W. G. Blauvelt. No. 1,369,003; Feb. 22; v. 283; p. 558.  
 Switching apparatus. W. M. Scott. No. 1,383,430; July 5; v. 288; p. 36.  
 Switching apparatus. W. M. Scott. No. 1,389,996; Sept. 6; v. 290; p. 88.  
 Switching-box. P. F. Williams. No. 1,401,021; Dec. 20.  
 Switching-cable hook. D. T. Goodman. No. 1,387,703; Aug. 16; v. 289; p. 469.  
 Switching device. W. C. Dixon. No. 1,365,308; Jan. 11; v. 282; p. 287.  
 Switching device. C. L. Lilleberg. No. 1,374,085; Apr. 5; v. 285; p. 137.  
 Switching device. C. L. Lilleberg. No. 1,374,086; Apr. 5; v. 285; p. 137.  
 Switching device. J. H. Mahoney and H. G. MacDonald. No. 1,370,030; Mar. 1; v. 284; p. 52.  
 Switching device. W. W. Thompson. No. 1,382,029; June 21; v. 287; p. 435.  
 Switching device, Machine-. C. L. Goodrum. No. 1,375,692; Apr. 26; v. 285; p. 582.  
 Switching mechanism. W. O. Lum. No. 1,370,028; Mar. 1; v. 284; p. 52.  
 Switching mechanism. H. G. Webster. No. 1,367,338; Feb. 1; v. 283; p. 91.  
 Switching, Method of and means for. N. J. Conrad. No. 1,393,344; Oct. 11.  
 Switching or selecting mechanism. L. L. Ladd. No. 1,391,195; Sept. 20; v. 290; p. 483.  
 Switching system. L. E. Coon. No. 1,381,451; June 14; v. 287; p. 266.  
 Switching system and indicating device therefor. R. M. Allen. No. 1,382,262; June 21; v. 287; p. 478.  
 Switching systems, Controlling system for automatic. A. M. Bullard. No. 1,386,686; Aug. 9; v. 289; p. 214.  
 Swivel. F. G. Gruen. No. 1,399,112; Dec. 6.  
 Swivel. T. J. Hughes. No. 1,372,696; Mar. 29; v. 284; p. 769.  
 Swivel connection. B. W. Hall. No. 1,401,073; Dec. 20.  
 Swivel-connector. P. H. Shaffer. No. 1,386,135; Aug. 2; v. 289; p. 35.  
 Swivel-coupling. A. V. Gullborg. No. 1,365,986; Jan. 18; v. 282; p. 459.  
 Swivel-coupling. A. V. Gullborg. No. 1,366,381; Jan. 25; v. 282; p. 579.  
 Swivel-coupling, Quick-detachable. D. Ferguson and A. T. Scheiwer. No. 1,371,882; Mar. 15; v. 284; p. 515.  
 Swivel, Hydraulic. L. J. Black. No. 1,372,266; Mar. 22; v. 284; p. 646.  
 Swivel hydraulic. W. E. King. No. 1,379,190; May 24; v. 286; p. 718.  
 Swivel trailer-coupling, Automatic. J. R. Flood. No. 1,384,944; July 19; v. 288; p. 470.  
 Swivel-turnstile device. C. S. Barrell. No. 1,374,348; Apr. 12; v. 285; p. 228.  
 Sweeled chair. G. W. Hull. No. 1,385,620; July 26; v. 288; p. 695.  
 Sword. P. Fasson. No. 1,371,881; Mar. 15; v. 284; p. 515.  
 Sword, Lay-. E. R. Holmes. No. 1,377,834; May 10; v. 286; p. 335.  
 Synchronism-indicator. J. P. Rigsby. No. 1,389,382; Aug. 50; v. 289; p. 913.  
 Synchronized entertainment apparatus. W. H. Bristol. No. 1,396,401; Nov. 8.  
 Synchronized recording and reproducing apparatus for visual and audible actions. C. W. Ebeling. No. 1,374,913; Apr. 19; v. 285; p. 400.  
 Synchronizer. H. I. Larson. No. 1,374,929; Apr. 19; v. 285; p. 402.  
 Synchronizing device. F. C. Howe and R. G. Warner. No. 1,371,096; Mar. 8; v. 284; p. 300.  
 Synchronizing mechanism. F. R. Sommermeyer. No. 1,391,423; Sept. 20; v. 290; p. 430.  
 Synchronizing system. J. H. Bell. No. 1,388,507; Aug. 23; v. 289; p. 686.  
 Synchronous booster rotary converters, Excitation for. F. D. Newbury and H. D. James. No. 1,392,076; Sept. 27; v. 290; p. 735.  
 Synchronous booster rotary converters, Field-control system for. M. W. Smith. No. 1,392,084; Sept. 27; v. 290; p. 737.  
 Synchronous transmitter. B. S. McCutchen and H. E. Williams. No. 1,377,844; May 10; v. 286; p. 337.  
 Synchrorotor. E. G. Thomas. No. 1,381,367; June 14; v. 287; p. 250.  
 Synthesizing ammonia in the presence of a catalytic alloy. F. A. Fabrenwald. No. 1,388,995; Aug. 30; v. 289; p. 837.  
 Synthetic anesthetic and making same. N. Nagai. No. 1,399,312; Dec. 6.  
 Synthetically compounded drug product and producing the same. W. N. Nagai. No. 1,399,144; Dec. 6.  
 Syringe. A. N. Bessesen. No. 1,367,008; Feb. 1; v. 283; p. 25.  
 Syringe. T. W. Blakeslee. No. 1,391,606; Sept. 20; v. 290; p. 567.  
 Syringe. F. W. Stanton. No. 1,392,085; Sept. 27; v. 290; p. 737.  
 Syringe. J. Valderrama. No. 1,371,133; Mar. 8; v. 284; p. 307.  
 Syringe. S. E. Weiner. No. 1,381,774; June 14; v. 287; p. 327.  
 Syringe, Aperture-cleaning. S. Wilinski. No. 1,399,834; Dec. 13.  
 Syringe attachment. L. Dunn. No. 1,373,803; Apr. 5; v. 285; p. 82.  
 Syringe container, Hypodermic. H. Ausubel. No. 1,378,806; May 17; v. 286; p. 573.  
 Syringe, Double-current. J. K. Mitchell. No. 1,384,771; July 19; v. 288; p. 444.  
 Syringe, Fountain-. A. P. Ames. No. 1,374,799; Apr. 12; v. 285; p. 316.  
 Syringe, Hot-air. O. H. and A. F. Pieper. No. 1,369,935; Mar. 1; v. 284; p. 34.  
 Syringe, Hot-air. O. H. and A. F. Pieper. No. 1,388,526; Aug. 23; v. 289; p. 689.  
 Syringe-hydrometer. R. A. Amerman. No. 1,390,858; Sept. 13; v. 290; p. 352.  
 Syringe, Hydrometer-. H. S. Marshutz. No. 1,394,322; Oct. 18.  
 Syringe, Hydrometer-. E. Neerup. No. 1,367,495; Feb. 1; v. 283; p. 122.  
 Syringe, Hydrometer-. E. Neerup. No. 1,384,399; July 12; v. 288; p. 286.  
 Syringe, Hypodermic. L. L. Goold. No. 1,388,946; Aug. 30; v. 289; p. 826.  
 Syringe, Hypodermic. H. Lomas and J. Mortimer. No. 1,393,720; Oct. 11.  
 Syringe, Hypodermic. P. S. Pittenger. No. 1,373,669; Apr. 5; v. 285; p. 56.  
 Syringe, Rectal. R. Palmer. No. 1,373,018; Mar. 29; v. 284; p. 834.  
 Syringe, Vaginal. E. Jeanjaquet. No. 1,382,982; June 28; v. 287; p. 670.  
 Syringe, Vaginal. C. F. L. Vultee. No. 1,383,502; July 5; v. 288; p. 50.  
 Syrup from sugar beets, Making a palatable. S. F. Sherwood. No. 1,370,372; Mar. 1; v. 284; p. 117.  
 Syrupers, Filling-valve for. A. R. Thompson. No. 1,394,453; Oct. 18.  
 System of control. A. H. Candee. No. 1,367,118; Feb. 1; v. 283; p. 17.  
 System of control. N. W. Storer and R. E. Hellmund. No. 1,393,715; Oct. 11.  
 System, Sprinkler. W. G. Wilson. No. 1,364,340; Jan. 4; v. 282; p. 57.  
 T-square. M. D. Davis. No. 1,381,808; June 14; v. 287; p. 334.  
 T-square. E. D. Efstratiades. No. 1,389,864; Sept. 6; v. 290; p. 61.  
 T-square. H. N. Gahan. No. 1,392,756; Oct. 4.  
 T-square, Adjustable blackboard. M. L. Curtis. No. 1,399,935; Dec. 13.  
 T-square guide. H. F. Rudolph. No. 1,389,904; Sept. 6; v. 290; p. 70.  
 T-squares, Parallel attachment for. S. H. Parvin. No. 1,369,263; Feb. 22; v. 283; p. 609.  
 T-stands, Attachment for. J. S. Adamson. No. 1,386,084; Aug. 2; v. 289; p. 25.  
 Tabbings-machine. F. M. Case. No. 1,365,089; Jan. 11; v. 282; p. 245.  
 Table. *See—*  
   Adjustable table.  
   Automobile-turntable.  
   Bed-table.  
   Billiard-table.  
   Bracket-table.  
   Child's table.  
   Child's play-table.  
   Chiropractic table.  
   Combination-table.  
   Concentrating-table.  
   Concentrator-table.  
   Convertible table.  
   Corn-husking table.  
   Drafting-table.  
   Drawing-board table.  
   Efficiency-table.  
   Extension-table.  
   Feeding-table.  
   Folding table.  
   Folding box-table.  
   Folding camp-table.  
   Fruit cutting and pitting table.  
   Glass-casting table.  
   Infant's table.  
   Interest-computing time-table.  
   Invalid-table.  
   Invalid-bed table.  
   Ironing-table.  
   Mold-table.  
   Obstetrical table.  
   Operating-table.  
   Osteopathic-treatment table.  
   Outing-table.  
   Packing-table.  
   Phonograph-table.  
   Pocket-billiard table.  
   Pool-table.  
   Power-table.  
   Roller-table.  
   Roller transfer-table.



## Alphabetical list of inventions—Continued.

Table: See—Continued.

Rotary table. Tension-table.  
Screen and picking-table. Test-scale table.  
Self-serving table. Towel-table.  
Serving-table. Treatment-table.  
Shingle-machine table. Universal table.  
Speed-table. Viscera inspection table.  
Takedown table. Work-supporting table.  
Talking-board table.

Table. G. D. Baker. No. 1,369,214; Feb. 22; v. 283; p. 599.  
Table. P. W. Chmielowski. No. 1,375,488; Apr. 10; v. 285; p. 510.  
Table. S. H. Davis. No. 1,372,607; Mar. 22; v. 284; p. 711.  
Table. H. L. Guth. No. 1,372,169; Mar. 22; v. 284; p. 626.  
Table. G. F. Hahn. No. 1,400,432; Dec. 13.  
Table. F. Hopaidaska. No. 1,381,837; June 14; v. 287; p. 339.  
Table. G. Sayre. No. 1,394,222; Oct. 18.  
Table. W. A. Snyder. No. 1,369,199; Feb. 22; v. 283; p. 596.  
Table. R. E. Stambaugh. No. 1,377,102; May 3; v. 286; p. 138.  
Table. J. Topor. No. 1,385,762; July 26; v. 288; p. 723.  
Table and bed, Combination. T. B. Draper. No. 1,375,449; Apr. 19; v. 285; p. 503.  
Table and bed, Combination. M. D. Miesner. No. 1,391,559; Sept. 20; v. 290; p. 558.  
Table and bench, Combination foldable. R. L. Kaiser. No. 1,391,833; Sept. 27; v. 290; p. 686.  
Table and chair, Collapsible. F. Karschitz. No. 1,367,908; Feb. 8; v. 283; p. 259.  
Table and chair, Combined. T. P. Hopkins. No. 1,369,661; Feb. 22; v. 283; p. 686.  
Table and chair, Portable. M. Kotun. No. 1,380,153; May 31; v. 286; p. 974.  
Table and ironing-board, Combined. G. W. Hudson. No. 1,391,115; Sept. 20; v. 290; p. 467.  
Table and ironing-board, Combined. O. F. Krahn. No. 1,379,451; May 24; v. 286; p. 767.  
Table and shaft support, Combination. M. Axilrod. No. 1,379,158; May 24; v. 286; p. 712.  
Table and writing-desk, Combined. F. Schimmel. No. 1,369,195; Feb. 22; v. 283; p. 595.  
Table, Candy-packing. J. E. Davis. No. 1,366,169; Jan. 18; v. 282; p. 494.  
Table, Folding. E. M. Davies. No. 1,366,637; Jan. 25; v. 282; p. 631.  
Table-leaf support. J. Peterson. No. 1,393,566; Oct. 11.  
Table-leg, Adjustable. G. T. Hagenmiller. No. 1,387,390; Aug. 9; v. 289; p. 355.  
Table-legs, Device for attaching. G. W. Stoll and G. H. Drechsel. No. 1,386,739; Aug. 9; v. 289; p. 225.  
Table-lowering attachment, Automatic. R. T. Hazelton. No. 1,397,210; Nov. 15.  
Table-mat. B. F. Chandler. No. 1,387,239; Aug. 9; v. 289; p. 323.  
Table mat. C. Laidman. No. 1,378,471; May 17; v. 286; p. 508.  
Table-operating mechanism. J. Broman. No. 1,373,050; Mar. 29; v. 284; p. 840.  
Table or desk novelty. A. S. Macdonald. No. 1,380,402; June 7; v. 287; p. 14.  
Table or stand. F. W. Cook. No. 1,380,042; May 31; v. 286; p. 953.  
Table-pad. W. H. Niederluecke. No. 1,389,567; Aug. 30; v. 289; p. 950.  
Table-seat. H. Mestre. No. 1,375,166; Apr. 19; v. 285; p. 449.  
Table slide, Extension-. S. Galerkin. No. 1,396,036; Nov. 8.  
Table structure. G. H. Porter. No. 1,385,094; July 19; v. 288; p. 511.  
Table-tilting mechanism. C. E. Thompson. No. 1,399,091; Dec. 6.  
Table-top. J. T. Kent. No. 1,382,983; June 28; v. 287; p. 670.  
Table-top, Folding shiftable. A. Tofani. No. 1,367,216; Feb. 1; v. 283; p. 66.  
Table-top protector. O. Winter. No. 1,399,371; Dec. 6.  
Table utensil. J. White. No. 1,367,649; Feb. 8; v. 283; p. 209.  
Table with attached chairs. G. C. Danielson. No. 1,370,952; Mar. 8; v. 284; p. 273.  
Tables. A. P. Saltalamachia. No. 1,398,496; Nov. 29.  
Tables. G. E. Tomlinson. No. 1,395,166; Oct. 25.  
Tables, Attachment for extension-. J. O. Larson. No. 1,378,878; May 24; v. 286; p. 659.  
Tables, Attachment for pool-. J. H. McCool. No. 1,386,577; Aug. 2; v. 289; p. 119.  
Tables, Attachment for pool-. J. H. McCool. No. 1,386,578; Aug. 2; v. 289; p. 120.  
Tables, Means for fixing detachable legs to. A. G. Mandry. No. 1,372,032; Mar. 22; v. 284; p. 601.  
Tables, Round rim-bound top for. C. O. Breeze. No. 1,396,554; Nov. 8.  
Tables, Secretary-case drawer for. L. G. Gustavel. No. 1,371,890; Mar. 15; v. 284; p. 517.  
Tables, Server for dining-. M. R. Brubaker. No. 1,400,209; Dec. 13.

Tables, Signal for dining-. N. B. Cregier. No. 1,378,839; May 24; v. 286; p. 652.  
Tablecloth-stretcher. C. Rysiek. No. 1,386,205; Aug. 2; v. 289; p. 49.  
Tablet, Advertising writing-. E. V. Allison. No. 1,370,871; Mar. 8; v. 284; p. 257.  
Tablet distributing and collecting machine. C. Lile. No. 1,370,695; Mar. 8; v. 284; p. 224.  
Tablet for the blind, Writing-. S. S. Nickerson. No. 1,371,430; Mar. 15; v. 284; p. 429.  
Tablets, Making record-. J. W. Owen and A. Hewitt. No. 1,368,745; Feb. 15; v. 283; p. 469.  
Tablets, Making sound-record. B. G. Royal. No. 1,368,972; Feb. 15; v. 283; p. 512.  
Tabular device, Adjustable. J. S. Holm. No. 1,396,113; Nov. 8.  
Tabular subfiling folder. M. Holt. No. 1,378,959; May 24; v. 286; p. 675.  
Tabulator, Printing-. C. D. Lake. No. 1,379,268; May 24; v. 286; p. 733.  
Tachometer. C. H. Veeder. No. 1,379,947; May 31; v. 286; p. 935.  
Tack and producing same. Thumb-. W. Raeburn. No. 1,380,738; June 7; v. 287; p. 79.  
Tack or nail. C. K. Hill. No. 1,395,960; Nov. 1.  
Tack-pulling machine. C. K. MacDonald. No. 1,372,890; Mar. 29; v. 284; p. 808.  
Tack-pulling machine. F. H. Thompson. No. 1,374,250; Apr. 12; v. 285; p. 209.  
Tack, Thumb-. M. G. Lawrence. No. 1,392,950; Oct. 11.  
Tacker. J. A. Mackey. No. 1,368,274; Feb. 15; v. 283; p. 377.  
Tacking mechanism. E. E. Rowe. No. 1,399,799; Dec. 13.  
Tackle, Lifting-. D. Brouillard. No. 1,377,870; May 10; v. 286; p. 342.  
Tag. T. R. Gaines. No. 1,392,410; Oct. 4.  
Tag. B. M. Hawley. No. 1,368,628; Feb. 15; v. 283; p. 446.  
Tag. J. F. Kahre. No. 1,370,691; Mar. 8; v. 284; p. 223.  
Tag. W. S. Mix. No. 1,387,657; Aug. 16; v. 289; p. 460.  
Tag affixing and marking machine, Combined. W. and F. L. Borchert. No. 1,386,047; Aug. 2; v. 289; p. 17.  
Tag and terminal-strip. E. A. Everett. No. 1,373,416; Apr. 5; v. 285; p. 7.  
Tag, Ear-. A. A. Pannier. No. 1,376,223; Apr. 26; v. 285; p. 683.  
Tag-holder. J. L. Kolbe. No. 1,388,726; Aug. 23; v. 289; p. 728.  
Tag-holder. H. E. Williams. No. 1,392,999; Oct. 11.  
Tag-holder. J. J. Wolff. No. 1,368,084; Feb. 8; v. 283; p. 292.  
Tag-holder. J. W. Wuensch. No. 1,392,548; Oct. 4.  
Tag holder and illuminator. F. W. Reimann. No. 1,401,731; Dec. 27.  
Tag holder, License-. C. R. Wallace. No. 1,375,875; Apr. 26; v. 285; p. 616.  
Tag holder, Price-. I. H. Gray. No. 1,372,225; Mar. 22; v. 284; p. 638.  
Tag-holder, Shelf-price. E. J. Cook. No. 1,367,588; Feb. 8; v. 283; p. 198.  
Tag-hook. L. C. Jeep. No. 1,376,546; May 3; v. 286; p. 31.  
Tag, Identification. J. J. Toy. No. 1,379,491; May 24; v. 286; p. 775.  
Tag, Identifying-. E. S. Blackburn. No. 1,392,291; Oct. 4.  
Tag, Laundry-. A. F. Hanney. No. 1,371,305; Mar. 15; v. 284; p. 403.  
Tag, Lock-. M. B. Behrman. No. 1,397,917; Nov. 22.  
Tag-locking device. A. Bodin. No. 1,401,235; Dec. 27.  
Tag, Marking-. P. F. Elzli. No. 1,385,530; July 26; v. 288; p. 676.  
Tag or card holder, Price. E. H. Smith. No. 1,390,172; Sept. 6; v. 290; p. 123.  
Tag or label. W. P. Schweinfurth. No. 1,371,266; Mar. 15; v. 284; p. 395.  
Tag, Price-. F. Kohnle. No. 1,383,641; July 5; v. 288; p. 79.  
Tag safety-pin. L. C. Bond. No. 1,390,191; Sept. 6; v. 290; p. 127.  
Tag, shipping-. S. B. Seaton. No. 1,373,916; Apr. 5; v. 285; p. 105.  
Tag, Shipping-. A. H. Sweet. No. 1,386,973; Aug. 9; v. 289; p. 273.  
Tag-stringing machine. H. L. Roberts. No. 1,365,853; Jan. 18; v. 282; p. 433.  
Tag, Trunk-. C. E. Mann. No. 1,373,089; Mar. 9; v. 284; p. 847.  
Tags such as used on laces, Machine for the production of metal. G. E. and S. H. Walker and F. Hewitt. No. 1,395,536; Nov. 1.  
Tagging-machine. V. F. Carl. No. 1,396,406; Nov. 8.  
Tail-holder. T. A. Davis. No. 1,374,364; Apr. 12; v. 285; p. 231.  
Tail-holder. E. D. King. No. 1,391,739; Sept. 27; v. 290; p. 667.  
Tail holder, Cow-. A. C. Brixen. No. 1,395,700; Nov. 1.  
Tailing-separator. E. A. Franklin. No. 1,374,645; Apr. 12; v. 285; p. 286.  
Tailings-separator. F. Hamachek. No. 1,390,781; Sept. 13; v. 290; p. 337.  
Tailors' chalk, Manufacturing. A. Ander and F. T. McGuire. No. 1,384,375; July 12; v. 288; p. 281.



*Alphabetical list of inventions—Continued.*

- Tallstock. W. A. Greaves. No. 1,380,139; May 31; v. 286; p. 972.
- Take-up attachment, Automatic. W. E. Stewart. No. 1,381,249; June 14; v. 287; p. 229.
- Takedown table. K. Kunishige. No. 1,397,764; Nov. 22.
- Talking-board table. H. M. Kliemant. No. 1,386,631; Aug. 9; v. 289; p. 203.
- Talking-machine. J. Belpedio. No. 1,389,478; Aug. 30; v. 289; p. 932.
- Talking-machine. J. F. Brommer. No. 1,391,455; Sept. 20; v. 290; p. 536.
- Talking-machine. R. W. Horton. No. 1,376,880; May 3; v. 286; p. 96.
- Talking-machine. E. R. Johnson. No. 1,379,345; May 24; v. 286; p. 74.
- Talking-machine. A. T. Jordan. No. 1,390,910; Sept. 13; v. 290; p. 364.
- Talking-machine. W. C. Mason. No. 1,382,373; June 21; v. 287; p. 499.
- Talking-machine. H. B. Miles. No. 1,371,508; Mar. 15; v. 284; p. 444.
- Talking-machine. R. T. Newland and M. Merriam. No. 1,401,277; Dec. 27.
- Talking-machine. J. M. Noel. No. 1,372,975; Mar. 29; v. 284; p. 826.
- Talking-machine. T. Rajé. No. 1,378,133; May 17; v. 286; p. 445.
- Talking-machine. H. E. Reach. No. 1,384,347; July 12; v. 288; p. 275.
- Talking-machine. W. S. Samuel. No. 1,395,364; Nov. 1.
- Talking-machine. H. Shafer. No. 1,384,409; July 12; v. 288; p. 288.
- Talking-machine. F. Talarico. No. 1,388,980; Aug. 30; v. 289; p. 833.
- Talking-machine. G. L. Willet. No. 1,388,626; Aug. 23; v. 289; p. 708.
- Talking-machine. J. Wolff. No. 1,387,575; Aug. 16; v. 289; p. 444.
- Talking-machine. C. E. Woods. No. 1,396,083; Nov. 8.
- Talking-machine, Automatic. R. W. Godfrey. No. 1,399,110; Dec. 6.
- Talking-machine diaphragm. O. Ryan. No. 1,364,890; Jan. 11; v. 282; p. 208.
- Talking-machine, Disk. P. de Haas. No. 1,369,269; Feb. 22; v. 283; p. 610.
- Talking-machine horn. J. Wolff. No. 1,387,031; Aug. 9; v. 289; p. 284.
- Talking-machine horn. J. Wolff. No. 1,392,037; Sept. 27; v. 290; p. 728.
- Talking-machine motors, Braking mechanism for. L. H. Mullikin. Nos. 1,395,725-6; Nov. 1.
- Talking-machine needles, Chuck for. P. Farb. No. 1,383,613; July 5; v. 288; p. 74.
- Talking-machine needles, Pressure-graduating device for. H. W. Mason. No. 1,371,635; Mar. 15; v. 284; p. 468.
- Talking-machine record. E. A. Widmann. No. 1,370,719; Mar. 8; v. 284; p. 229.
- Talking-machine-record-dispensing apparatus. G. J. Williams. No. 1,385,652; July 26; v. 288; p. 701.
- Talking-machine records, Apparatus for and process of making styli for use in connection with the reproduction of sound from. F. C. Jones. No. 1,368,936; Feb. 15; v. 283; p. 506.
- Talking-machine records, Brush for. J. F. and W. Borst. No. 1,399,714; Dec. 6.
- Talking-machine records, Container for. C. A. Kimmel. No. 1,376,703; May 3; v. 286; p. 61.
- Talking-machine sound-box coupling. J. C. Drake. No. 1,369,793; Mar. 1; v. 284; p. 8.
- Talking-machine stop. J. L. Davenport. No. 1,376,261; Apr. 26; v. 285; p. 690.
- Talking-machine, Weight-motor. E. E. Tallaferro. No. 1,366,508; Jan. 25; v. 282; p. 605.
- Talking-machines, Attachment for. F. Kruse and J. Odorfer. No. 1,380,811; June 7; v. 287; p. 94.
- Talking-machines, Automatic brake for. H. Thorens. No. 1,381,032; June 7; v. 287; p. 136.
- Talking-machines, Automatic lighting device for. E. K. Wizner. No. 1,375,341; Apr. 19; v. 285; p. 482.
- Talking-machines, Automatic release and brake mechanism for. A. Vasselli. No. 1,395,752; Nov. 1.
- Talking-machines, Automatic starting and stopping device for. A. A. Huseby. No. 1,394,173; Oct. 18.
- Talking-machines, Automatic stop for. W. G. Shelton. No. 1,392,081; Sept. 27; v. 290; p. 736.
- Talking-machines, Automatic stop mechanism for. H. L. Tunison. No. 1,385,407; July 26; v. 288; p. 650.
- Talking-machines, Auxiliary device for. F. C. Hahn. No. 1,394,825; Oct. 25.
- Talking-machines, Damper for. R. E. L. Jauney. No. 1,394,176; Oct. 18.
- Talking-machines, Driving mechanism for. T. Ahearn. No. 1,399,239; Dec. 6.
- Talking-machines, Electric motor for. J. T. Sibley. No. 1,381,138; June 14; v. 287; p. 209.
- Talking-machines, Filing-case for. G. Schlemmer. No. 1,376,118; Apr. 26; v. 285; p. 663.
- Talking-machines, Harmony-box for. B. Scrivani. No. 1,373,677; Apr. 5; v. 285; p. 57.
- Talking-machines, Needle-changing device for. D. Di Carlo. No. 1,364,428; Jan. 4; v. 282; p. 74.
- Talking-machines, Portable driving mechanism for. W. Scott. No. 1,394,763; Oct. 25.
- Talking-machines, Repeating device for. G. F. Voith. No. 1,385,056; July 19; v. 288; p. 503.
- Talking-machines, Reproducer for. J. W. Kaufmann. No. 1,367,979; Feb. 8; v. 283; p. 272.
- Talking-machines, Reproducer for. J. W. Kaufman. No. 1,381,998; June 21; v. 287; p. 429.
- Talking-machines, Reproducer for. W. T. Lakin. No. 1,393,293; Oct. 11.
- Talking-machines, Reproducer for. O. H. Wandersee. No. 1,380,445; June 7; v. 287; p. 23.
- Talking-machines, Reproducers for. J. W. Kaufmann. No. 1,381,201; June 14; v. 287; p. 220.
- Talking-machines, Rewinding mechanism for. N. Micucci. No. 1,398,879; Nov. 29.
- Talking-machines, Sound-box for. W. W. Moyer. No. 1,393,691; Oct. 11.
- Talking-machines, Sound-box mounting for. J. C. Drake. No. 1,385,118; July 19; v. 288; p. 517.
- Talking-machines, Sound-conveyor for. W. D. Pfrommer and F. A. Adams. No. 1,392,654; Oct. 4.
- Talking-machines, Sound-regulator for. W. A. Lomas. No. 1,382,297; June 21; v. 287; p. 485.
- Talking-machines, Spring winding or stressing mechanism for. W. E. Gordon. No. 1,391,315; Sept. 20; v. 290; p. 508.
- Talking-machines, Starting and stopping mechanism for. M. M. Wills. No. 1,379,069; May 24; v. 286; p. 695.
- Talking-machines, Starting device for. F. A. Walker. No. 1,379,493; May 24; v. 286; p. 776.
- Talking-machines, Stop for. W. J. Murdock. No. 1,391,565; Sept. 20; v. 290; p. 559.
- Talking-machines, Stop mechanism for. F. C. Hinckley. No. 1,390,712; Sept. 13; v. 290; p. 823.
- Talking-machines, Stop mechanism for. F. C. Hinckley. No. 1,390,713; Sept. 13; v. 290; p. 323.
- Talking-machines, Stop mechanism for. E. O. Klemm. No. 1,385,689; July 26; v. 288; p. 709.
- Talking-machines, Stylus-holder for. F. D. Lewis. No. 1,389,885; Sept. 6; v. 290; p. 66.
- Talking-machines, Stylus-holder for. F. D. Lewis. No. 1,389,886; Sept. 6; v. 290; p. 66.
- Talking-machines, Tone-arm bearing for. H. Lubé. No. 1,378,965; May 24; v. 286; p. 676.
- Talking-machines, Turntable for. A. Vasselli. No. 1,399,171; Dec. 6.
- Talking-machines, Vibration-transmission connection for. M. C. Hopkins. No. 1,390,206; Sept. 6; v. 290; p. 130.
- Tally-tablet. V. J. Van Horn. No. 1,368,467; Feb. 15; v. 283; p. 415.
- Tallying-machine. L. M. Whitehead. No. 1,391,086; Sept. 20; v. 290; p. 462.
- Tamper and like impact tool. C. Jackson. No. 1,399,387; Dec. 6.
- Tamping-machine. T. M. Davidson and J. Chesney. No. 1,372,009; Mar. 22; v. 284; p. 597.
- Tamping-roller. M. M. Emerson. No. 1,371,303; Mar. 15; v. 284; p. 403.
- Tampon. G. S. Peterkin. No. 1,401,358; Dec. 27.
- Tampon, Medicated. E. M. Pond. No. 1,395,295; Nov. 1.
- Tang-mounting for implements. A. A. Wirt. No. 1,382,154; June 21; v. 287; p. 457.
- Tang-mounting for implements. A. A. Wirt. No. 1,382,155; June 21; v. 287; p. 458.
- Tank. See—
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|---------------------------------|----------------------|
| Absorption-tank.                | Man-catching tank.   |
| Auxiliary fuel-tank.            | Mixing-tank.         |
| Cook-tank.                      | Oil-tank.            |
| Cooling-tank.                   | Petrol-tank.         |
| Detachable reserve-supply tank. | Print-washing tank.  |
| Dispensing-tank.                | Reserve supply-tank. |
| Expansible septic tank.         | Septic tank.         |
| Flush-tank.                     | Stock-tank.          |
| Freezing-tank.                  | Stock-watering tank. |
| Fuel-tank.                      | Storage-tank.        |
| Gasolene-tank.                  | Surge-tank.          |
| Gasolene service-tank.          | Test-tank.           |
| Glass-tank.                     | Toy tank.            |
| Knockdown tank.                 | Transformer-tank.    |
- Tank. H. W. Alden. No. 1,366,550; Jan. 25; v. 282; p. 614.
- Tank. J. Bauerle. No. 1,381,693; June 14; v. 287; p. 312.
- Tank. A. Brile. No. 1,400,345; Dec. 13.
- Tank. R. Caudron. No. 1,367,460; Feb. 1; v. 283; p. 115.
- Tank. J. Cloud. No. 1,398,934; Nov. 29.
- Tank. J. E. Flitcroft. No. 1,386,462; Aug. 2; v. 289; p. 97.
- Tank. T. Ryan. No. 1,378,725; May 17; v. 286; p. 558.
- Tank. H. F. Smith. No. 1,387,080; Aug. 9; v. 289; p. 295.
- Tank. G. Whitmore. No. 1,374,790; Apr. 12; v. 285; p. 314.
- Tank and hose attachment, Combination. E. A. Bruns. No. 1,369,390; Feb. 22; v. 283; p. 633.
- Tank and valve, Toilet-. J. L. Burns. No. 1,370,781; Mar. 8; v. 284; p. 241.
- Tank-closure. V. A. Nixon. No. 1,369,754; Feb. 22; v. 283; p. 705.
- Tank-closure. J. A. Warren. No. 1,366,854; Jan. 25; v. 282; p. 674.
- Tank closure and vent. A. Davis, Jr. No. 1,383,389; July 5; v. 288; p. 27.



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- Tanks, Closure-plug for. P. Henry. No. 1,399,345; Dec. 6.  
 Tank construction. A. A. Kramer. No. 1,373,434; Apr. 5; v. 285; p. 10.  
 Tank construction, Vacuum fuel-feed. W. Jay. No. 1,370,450; Mar. 1; v. 284; p. 132.  
 Tank-filler and contents-indicator. A. Stanley. No. 1,379,226; May 24; v. 286; p. 725.  
 Tank filler-openings, Cap for. O. S. Kelly. No. 1,382,598; June 21; v. 287; p. 543.  
 Tank-heater. J. E. Alisteadt. No. 1,397,831; Nov. 22.  
 Tank-heater. W. H. Guenin. No. 1,389,653; Sept. 6; v. 290; p. 19.  
 Tank-signal. E. E. Pierce. No. 1,366,832; Jan. 25; v. 282; p. 670.  
 Tank-supply, Windmill-control mechanism for. J. E. Waltrowicz. No. 1,373,543; Apr. 5; v. 285; p. 32.  
 Tank with automatic cover, Dip. F. A. Fuller. No. 1,388,942; Aug. 30; v. 289; p. 825.  
 Tanks and the like, Mounting for. G. M. Willis and L. V. Newton. No. 1,374,972; Apr. 19; v. 285; p. 411.  
 Tanks, Audible low-liquid-level alarm for. W. Grah. No. 1,331,299; June 14; v. 287; p. 238.  
 Tanks, Filler-caps for. J. L. Dougherty. No. 1,368,616; Feb. 15; v. 283; p. 444.  
 Tanks, Fluid-control lock for. R. S. Klopfenstein. No. 1,376,283; Apr. 26; v. 285; p. 694.  
 Tanks, Gage or indicator for fluid-holding. A. H. Miller and R. E. McCaffrey. No. 1,396,273; Nov. 8.  
 Tanks, Non-leak cap for gasoline-. J. Dolezal. No. 1,380,045; May 31; v. 286; p. 954.  
 Tanks, Reactor in. F. H. Kierstead. No. 1,394,910; Oct. 25.  
 Tanks, Safety device for. W. G. Carruth. No. 1,372,062; Mar. 22; v. 284; p. 606.  
 Tanks, Safety device for. W. G. Carruth. No. 1,372,063; Mar. 22; v. 284; p. 606.  
 Tanks, Sediment receiving and drawing-off device for. G. W. Smith. No. 1,383,433; July 5; v. 288; p. 36.  
 Tanks, Water-inlet valve for. W. Sherwood. No. 1,389,907; Sept. 6; v. 290; p. 71.  
 Tanks with hard rubber, Lining metal. E. S. Boyer. No. 1,367,231; Feb. 1; v. 283; p. 69.  
 Tannin, Producing a surrogate for. C. Graf. No. 1,376,805; May 3; v. 286; p. 81.  
 Tanning. A. Römer. No. 1,395,733; Nov. 1.  
 Tanning. J. K. Tullis. No. 1,390,735; Sept. 13; v. 290; p. 328.  
 Tanning agent, Readily soluble. F. Hassler. No. 1,390,205; Sept. 6; v. 290; p. 129.  
 Tanning apparatus. A. S. Jones. No. 1,364,379; Jan. 4; v. 282; p. 64.  
 Tanning materials, Making. W. Moeller. No. 1,399,510; Dec. 6.  
 Tap. F. P. Schroder. No. 1,398,156; Nov. 22.  
 Tap and die holder, Reversible. E. E. Drowns. No. 1,401,594; Dec. 27.  
 Tap-attaching device. F. E. Rice. No. 1,386,949; Aug. 9; v. 289; p. 268.  
 Tap, Collapsible. V. R. Koontz. No. 1,391,639; Sept. 20; v. 290; p. 573.  
 Tap, Collapsing. J. Fraser. No. 1,393,995; Oct. 18.  
 Tap, Self-closing. H. Jarvis. (Reissue). No. 15,225; Nov. 15.  
 Tap, Threading-. J. H. Muth. No. 1,365,338; Jan. 11; v. 282; p. 293.  
 Tap-washer. J. A. Desmarteau. No. 1,370,521; Mar. 8; v. 284; p. 190.  
 Tapping-block. O. W. Berggren. No. 1,392,740; Oct. 4.  
 Tapping device and similar tool, Multiple. F. A. Errington. No. 1,385,438; July 26; v. 288; p. 657.  
 Tapping device, Automatic. F. Hoerner. No. 1,381,556; June 14; v. 287; p. 286.  
 Tapping-machine, Universal. W. C. Osterholm. No. 1,395,353; Nov. 1.  
 Tape-applying machine. M. B. Diskin. No. 1,380,540; June 7; v. 287; p. 41.  
 Tape cutter and moistener, Gum-. R. I. Ross. No. 1,392,358; Oct. 4.  
 Tape, Device for delivering. C. G. Mortimer. No. 1,364,844; Jan. 4; v. 282; p. 153.  
 Tape, Electrically-insulated. H. I. Diamond. No. 1,368,025; Feb. 8; v. 283; p. 281.  
 Tape, Machine for applying. E. S. Hoyt. No. 1,399,715; Dec. 6.  
 Tape-measures, Attachment for. G. A. Brandenburg. No. 1,380,184; May 31; v. 286; p. 980.  
 Tape moistening and delivery apparatus. W. D. Robertson and S. Savage. No. 1,383,999; July 5; v. 288; p. 154.  
 Tape-transmitter. D. Murray. No. 1,401,917; Dec. 27.  
 Taper and angle gage. J. M. Wall and C. Meldrum. No. 1,384,221; July 12; v. 288; p. 248.  
 Taper grab. F. L. Chronister. No. 1,389,859; Sept. 6; v. 290; p. 60.  
 Taper-holder. H. D. Pomije. No. 1,367,921; Feb. 8; v. 283; p. 261.  
 Tar-burner. W. Boehm, H. S. Corey, and L. A. Lambing. No. 1,389,563; Aug. 30; v. 289; p. 949.  
 Target. C. J. Fairchild. No. 1,378,340; May 17; v. 286; p. 483.  
 Target. F. J. Peters. No. 1,389,977; Sept. 6; v. 290; p. 84.  
 Target apparatus. C. E. Carter. No. 1,396,698; Nov. 8.  
 Target, Flying. A. McMillan. No. 1,368,176; Feb. 8; v. 283; p. 310.  
 Target-following bomb-sight. B. L. Smith, E. H. Barry, and A. H. Boettcher. No. 1,389,555; Aug. 30; v. 289; p. 948.  
 Target-practice apparatus. J. W. Strohm. No. 1,369,572; Feb. 22; v. 283; p. 669.  
 Target-shooting, Mechanism for vending cards and cartridges for. A. Couaillat and P. Dussol. No. 1,371,604; Mar. 15; v. 284; p. 463.  
 Target-throwing machines, Motor-drive for. C. H. Napier. No. 1,376,825; May 3; v. 286; p. 84.  
 Target-trap. B. P. Vickery. No. 1,369,948; Mar. 1; v. 284; p. 37.  
 Tarpaulin. F. W. Temple. No. 1,372,846; Mar. 29; v. 284; p. 799.  
 Tatting-hook. M. C. Mouser. No. 1,379,930; May 31; v. 286; p. 932.  
 Tatting-shuttle. A. M. Barham. No. 1,390,188; Sept. 6; v. 290; p. 127.  
 Taximeter. H. K. E. Lübcke. No. 1,392,895; Oct. 4.  
 Taximeter, Printing-. W. Eisenschmid. No. 1,392,631; Oct. 4.  
 Tea-drying apparatus. H. A. Tempelaar. No. 1,364,463; Jan. 4; v. 282; p. 81.  
 Tea or coffee pot. B. F. Olsen. No. 1,397,978; Nov. 22.  
 Teakettles, Handle and protector for. J. V. Lafond. No. 1,388,958; Aug. 30; v. 289; p. 829.  
 Teapot, coffee-pot and like vessel. R. C. Johnson. No. 1,380,066; May 31; v. 286; p. 958.  
 Teapot-spout ladle. E. H. Whiting. No. 1,399,532; Dec. 6.  
 Teapots, Strainer for. J. B. Smith. No. 1,384,926; July 19; v. 288; p. 475.  
 Teaspoon and tablespoon leveler. H. B. Craig. No. 1,383,603; July 5; v. 288; p. 71.  
 Teat-cup. L. Hofmeister. No. 1,387,983; Aug. 16; v. 289; p. 524.  
 Teat-cup. A. C. Macartney. No. 1,397,840; Nov. 22.  
 Teat-cup. H. McCormack. No. 1,385,050; July 19; v. 288; p. 502.  
 Teat-cup. J. A. Schmitt. No. 1,388,380; Aug. 23; v. 289; p. 661.  
 Teeter and roundabout, Combined. E. D. Grove. No. 1,392,147; Sept. 27; v. 290; p. 749.  
 Teeth and dental matrix for use therein, Filling. D. E. Taylor. No. 1,379,489; May 24; v. 286; p. 775.  
 Teeth, Apparatus for manufacturing pinless. M. Charen. No. 1,364,480; Jan. 4; v. 282; p. 84.  
 Teeth, Attaching means for artificial. J. B. Foster. No. 1,394,299; Oct. 18.  
 Teeth attachment, False-. B. Elisberg and W. Sheff. No. 1,384,717; July 12; v. 288; p. 353.  
 Teeth, Clasp for. E. R. Nebeling. No. 1,392,784; Oct. 4.  
 Teeth, Combination backing and post for artificial anterior. H. Schick. No. 1,383,029; June 28; v. 287; p. 679.  
 Teeth, Combination backing and post for artificial anterior. H. Schick. No. 1,383,030; June 28; v. 287; p. 679.  
 Teeth, Gage for selecting artificial. W. C. Dalbey. No. 1,378,527; May 17; v. 286; p. 519.  
 Teeth, Gage for selecting artificial. J. A. Wavrin. No. 1,378,745; May 17; v. 286; p. 562.  
 Teeth, Hollow metal crown for artificial. J. L. P. Roumégère. No. 1,393,166; Oct. 11.  
 Teeth, Instrument for handling artificial. T. Steele. No. 1,369,718; Feb. 22; v. 283; p. 697.  
 Teeth, Making artificial. W. W. Crate. No. 1,370,192; Mar. 1; v. 284; p. 83.  
 Teeth, Making backing-plates for artificial. A. H. Gunther. No. 1,377,474; May 10; v. 286; p. 266.  
 Teeth, Mold for making artificial. W. W. Crate. No. 1,370,191; Mar. 1; v. 284; p. 83.  
 Teeth, Preparation for the. W. Congreve. No. 1,379,744; May 31; v. 286; p. 897.  
 Teeth, Specimen set-up for artificial. M. M. House. No. 1,379,689; May 31; v. 286; p. 887.  
 Teeth, Supporting device for false. F. A. Binns. No. 1,385,812; July 26; v. 288; p. 733.  
 Telegoniometer. W. L. Hogg. No. 1,399,963; Dec. 13.  
 Telegraph device, Submarine wireless. G. Klem. No. 1,391,836; Sept. 27; v. 290; p. 686.  
 Telegraph-key, Student's non-electric. D. G. White. No. 1,372,730; Mar. 29; v. 284; p. 777.  
 Telegraph, Machine-. L. M. Potts. No. 1,370,669; Mar. 8; v. 284; p. 219.  
 Telegraph, Marine. C. J. Henschel. No. 1,367,258; Feb. 1; v. 283; p. 75.  
 Telegraph-pole. D. R. Ryals. No. 1,373,979; Apr. 5; v. 285; p. 118.  
 Telegraph, Printing-. H. Pfannenstiel and E. F. Watson. No. 1,399,993; Dec. 13.  
 Telegraph, Printing-. F. Ritchie. No. 1,400,988; Dec. 20.  
 Telegraph register receiving apparatus. N. B. Cregier. No. 1,378,011; May 17; v. 286; p. 421.  
 Telegraph, Selective or printing. C. L. and H. L. Krum. No. 1,866,812; Jan. 25; v. 282; p. 666.  
 Telegraph, Ship's. C. J. Henschel. No. 1,393,684; Oct. 11.  
 Telegraph system. J. H. Bell. No. 1,367,729; Feb. 8; v. 283; p. 225.  
 Telegraph system. J. H. Bell. No. 1,379,243; May 24; v. 286; p. 728.  
 Telegraph system. J. H. Bell. No. 1,386,679; Aug. 9; v. 289; p. 213.



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- Telegraph system. J. H. Bell. No. 1,387,229; Aug. 9; v. 289; p. 321.
- Telegraph system. J. N. Correia. No. 1,364,725; Jan. 4; v. 282; p. 130.
- Telegraph system. G. C. Cummings. No. 1,367,733; Feb. 8; v. 283; p. 226.
- Telegraph system. G. C. Cummings. No. 1,375,281; Apr. 19; v. 285; p. 471.
- Telegraph system. A. F. Dixon. No. 1,386,993; Aug. 9; v. 289; p. 277.
- Telegraph system. A. F. Dixon. No. 1,400,035; Dec. 13.
- Telegraph system. A. D. Dowd. No. 1,364,086; Jan. 4; v. 282; p. 7.
- Telegraph system. C. Halter. No. 1,396,746; Nov. 15.
- Telegraph system. B. F. Merritts. No. 1,384,396; July 12; v. 288; p. 285.
- Telegraph system. N. W. Post. No. 1,395,007; Oct. 25.
- Telegraph system. F. M. Rainey. No. 1,399,997; Dec. 13.
- Telegraph system. P. M. Rainey. No. 1,400,493; Dec. 13.
- Telegraph system, Automatic. G. R. Benjamin. No. 1,370,402; Mar. 1; v. 284; p. 122.
- Telegraph system, Half-duplex alternating current. R. D. Parker. No. 1,391,006; Sept. 20; v. 290; p. 445.
- Telegraph system, Printing. A. F. Dixon. No. 1,365,231; Jan. 11; v. 282; p. 272.
- Telegraph system, Printing. A. F. Dixon. No. 1,367,735; Feb. 8; v. 283; p. 226.
- Telegraph system, Printing. P. M. Rainey. No. 1,367,717; Feb. 8; v. 283; p. 223.
- Telegraph system, Printing. P. M. Rainey. No. 1,380,679; June 7; v. 287; p. 67.
- Telegraph systems. P. M. Rainey and A. D. Dowd. No. 1,378,978; May 24; v. 286; p. 678.
- Telegraph systems, Code-transposing apparatus for. D. Murray. No. 1,394,439; Oct. 18.
- Telegraph-transmitter. C. L. and H. L. Krum. No. 1,374,152; Apr. 5; v. 285; p. 150.
- Telegraph transmitter, Wireless. H. J. Round and W. T. Ditcham. No. 1,364,495; Jan. 4; v. 282; p. 87.
- Telegraphs, Slack-wire compensator for ships'. F. W. Wood. No. 1,387,823; Aug. 16; v. 289; p. 494.
- Telegraphic alphabet or code. A. C. Crehore. No. 1,364,078; Jan. 4; v. 282; p. 6.
- Telegraphic indicator. S. G. Nye. No. 1,391,206; Sept. 20; v. 290; p. 486.
- Telegraphic receiving instrument, Recording. J. A. Hulit. No. 1,399,429; Dec. 6.
- Telegraphic system. E. Frattola, V. E. Castelli, and R. Regnoni. No. 1,395,953; Nov. 1.
- Telegraphophone. H. B. Wier and W. H. Capen. No. 1,366,617; Jan. 25; v. 282; p. 627.
- Telegraphy. W. M. Bruce, Jr. No. 1,369,218; Feb. 22; v. 283; p. 600.
- Telegraphy. K. C. Cox. No. 1,392,302; Oct. 4.
- Telegraphy. G. C. Cummings. No. 1,367,305; Feb. 1; v. 283; p. 84.
- Telegraphy. T. B. Dixon. No. 1,397,576; Nov. 22.
- Telegraphy. H. G. Dorsey. No. 1,398,892; Nov. 29.
- Telegraphy, Instrument for use in learning. J. E. Smith and C. W. Burger. No. 1,394,768; Oct. 25.
- Telegraphy or telephony, Apparatus for use in. L. De Forest. No. 1,365,157; Jan. 11; v. 282; p. 258.
- Telegraphy, Printing. H. Pfannenstiehl. No. 1,374,606; Apr. 12; v. 285; p. 279.
- Telegraphy, Underwater wave. W. Hahnemann. No. 1,377,129; May 26; v. 286; p. 143.
- Telemotor. M. B. Benson. No. 1,374,179; Apr. 12; v. 285; p. 196.
- Telemotor. M. B. Benson. No. 1,374,180; Apr. 12; v. 285; p. 196.
- Telemotor. E. Schneider. No. 1,393,837; Oct. 18.
- Telephone. I. Langmuir. No. 1,380,981; June 7; v. 287; p. 127.
- Telephone. J. S. Timmons. No. 1,395,286; July 19; v. 288; p. 550.
- Telephone and call signal system. A. B. Clark. No. 1,371,298; Mar. 15; v. 284; p. 402.
- Telephone and microtelephone. Baron R. A. van Lynden. No. 1,386,744; Aug. 9; v. 289; p. 226.
- Telephone and other uses, Disinfecting device for. N. V. Smith. No. 1,386,975; Aug. 9; v. 289; p. 273.
- Telephone-answering instrument. W. D. Calvert. No. 1,368,481; Feb. 15; v. 283; p. 418.
- Telephone apparatus. H. C. Egerton. No. 1,365,898; Jan. 18; v. 282; p. 442.
- Telephone apparatus. F. P. Mansbendel. No. 1,399,268; Dec. 6.
- Telephone apparatus, Portable. A. Miclaush. No. 1,397,137; Nov. 15.
- Telephone attachment. H. W. Belles. No. 1,372,795; Mar. 29; v. 284; p. 789.
- Telephone attachment. T. J. Farmer. No. 1,378,774; May 17; v. 286; p. 567.
- Telephone attachment. C. E. Jones. No. 1,388,720; Aug. 23; v. 289; p. 727.
- Telephone attachment. J. P. Lee. No. 1,398,029; Nov. 22.
- Telephone attachment. J. E. Rhodes. No. 1,370,152; Mar. 1; v. 284; p. 75.
- Telephone attachment. L. J. Sampson. No. 1,381,343; June 14; v. 287; p. 246.
- Telephone attachment. H. D. Sterrick. No. 1,367,169; Feb. 1; v. 283; p. 57.
- Telephone attachment. H. F. Zink, Jr. No. 1,391,087; Sept. 20; v. 290; p. 462.
- Telephone-booth. F. F. Beeby. No. 1,382,265; June 21; v. 287; p. 479.
- Telephone-call register. L. D. Harrison. No. 1,367,383; Feb. 1; v. 283; p. 100.
- Telephone-call-transfer system. J. F. Toomey. No. 1,364,965; Jan. 11; v. 282; p. 221.
- Telephone-call-wire circuits. J. F. Toomey. No. 1,383,038; June 28; v. 287; p. 680.
- Telephone calling devices, Adapter for. H. W. Pugh, and J. A. Wotton. No. 1,387,945; Aug. 16; v. 289; p. 517.
- Telephone-circuits, Repeater-controlling system for four-wire. C. S. Demarest. No. 1,381,545; June 14; v. 287; p. 284.
- Telephone-circuits, Substation. B. D. Willis. (Reissue.) No. 15,070; Mar. 22; v. 284; p. 722.
- Telephone-cord-take-up device. D. G. Roos. No. 1,384,153; July 12; v. 288; p. 235.
- Telephone desk set. P. C. Burns. No. 1,381,903; June 21; v. 287; p. 412.
- Telephone device, Sanitary. W. W. Lukenbach. No. 1,392,840; Oct. 4.
- Telephone-exchange. F. A. Lundquist. (Reissue.) No. 15,048; Feb. 22; v. 283; p. 707.
- Telephone-exchange, Automatic. F. A. Lundquist. No. 1,369,288; Feb. 22; v. 283; p. 613.
- Telephone-exchange system. H. P. Clausen. No. 1,378,938; May 24; v. 286; p. 671.
- Telephone-exchange system. H. P. Clausen. No. 1,387,354; Aug. 9; v. 289; p. 348.
- Telephone-exchange system. H. P. Clausen. No. 1,393,946; Oct. 18.
- Telephone-exchange system. H. P. Clausen. No. 1,397,034; Nov. 15.
- Telephone-exchange system. H. P. Clausen and C. L. Goodrum. No. 1,386,688; Aug. 9; v. 289; p. 215.
- Telephone-exchange system. H. P. Clausen, and C. L. Goodrum. No. 1,371,737; Mar. 15; v. 284; p. 488.
- Telephone-exchange system. R. D. Conway. No. 1,383,789; July 5; v. 288; p. 111.
- Telephone-exchange system. C. B. Fowler. No. 1,371,740; Mar. 15; v. 284; p. 490.
- Telephone-exchange system. C. B. Fowler. No. 1,387,250; Aug. 9; v. 289; p. 326.
- Telephone-exchange system. C. B. Fowler. No. 1,396,739; Nov. 15.
- Telephone-exchange system. C. B. Fowler. No. 1,398,589; Nov. 29.
- Telephone-exchange system. C. L. Goodrum. No. 1,387,255; Aug. 9; v. 289; p. 327.
- Telephone-exchange system. C. L. Goodrum. No. 1,393,522; Oct. 11.
- Telephone-exchange system. J. A. Hall. No. 1,383,804; July 5; v. 288; p. 114.
- Telephone-exchange system. G. H. Heydt. No. 1,367,967; Feb. 8; v. 283; p. 270.
- Telephone-exchange system. C. W. Keckler. No. 1,400,075; Dec. 13.
- Telephone-exchange system. F. Lubberger and W. Pinell. No. 1,399,066; Dec. 6.
- Telephone-exchange system. A. E. Lundell. No. 1,375,712; Apr. 26; v. 285; p. 585.
- Telephone-exchange system. G. A. E. Lundell. No. 1,401,544; Dec. 27.
- Telephone-exchange system. H. W. MacDougall. No. 1,381,483; June 14; v. 287; p. 271.
- Telephone-exchange system. J. L. McQuarrie and C. L. Goodrum. Nos. 1,393,558-9; Oct. 11.
- Telephone-exchange system. L. A. Mortimer. No. 1,383,743; July 5; v. 288; p. 101.
- Telephone-exchange system. G. E. Mueller. No. 1,391,136; Sept. 20; v. 290; p. 472.
- Telephone-exchange system. L. Polinkowsky. No. 1,365,270; Jan. 11; v. 282; p. 280.
- Telephone-exchange system. L. Polinkowsky. No. 1,373,447; Apr. 5; v. 285; p. 13.
- Telephone-exchange system. L. Polinkowsky. No. 1,387,171; Aug. 9; v. 289; p. 312.
- Telephone-exchange system. W. T. Powell. No. 1,364,643; Jan. 4; v. 282; p. 115.
- Telephone-exchange system. A. Raynsford. No. 1,386,730; Aug. 9; v. 289; p. 223.
- Telephone-exchange system. J. N. Reynolds. No. 1,375,230; Apr. 19; v. 285; p. 461.
- Telephone-exchange system. W. A. Rhodes and F. E. Anderson. No. 1,387,181; Aug. 9; v. 289; p. 314.
- Telephone-exchange system. F. A. Stearn and F. J. Scudder. No. 1,395,977; Nov. 1.
- Telephone-exchange system. A. C. Stuart. No. 1,384,980; July 19; v. 288; p. 487.
- Telephone-exchange system. D. M. Taggart. No. 1,393,465; Oct. 11.
- Telephone-exchange system. G. Thompson. No. 1,383,677; July 5; v. 288; p. 87.
- Telephone-exchange system. H. W. Ulrich. No. 1,364,162; Jan. 4; v. 282; p. 22.
- Telephone-exchange system. C. White. No. 1,386,747; Aug. 9; v. 289; p. 227.
- Telephone-exchange system. R. S. Wilbur. No. 1,380,451; June 7; v. 287; p. 24.
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- Telephone-exchange system. S. B. Williams, Jr. No. 1,381,530; June 14; v. 287; p. 281.
- Telephone-exchange system. S. B. Williams, Jr. No. 1,393,728; Oct. 11.
- Telephone-exchange system. S. B. Williams, Jr. No. 1,400,120; Dec. 13.
- Telephone-exchange system, Automatic. G. Deakin. No. 1,381,456; June 14; v. 287; p. 267.
- Telephone-exchange system, Machine-switching. L. Polinkowsky. No. 1,365,269; Jan. 11; v. 282; p. 280.
- Telephone-exchange system, Machine-switching. L. Polinkowsky. No. 1,372,448; Mar. 22; v. 284; p. 680.
- Telephone-exchange system, Semi-automatic. L. Polinkowsky. No. 1,400,181; Dec. 13.
- Telephone-exchange system, Semi-automatic. J. L. Wright. No. 1,383,588; July 5; v. 288; p. 68.
- Telephone-exchange systems, Automatic switch for. A. H. Adams. No. 1,399,728; Dec. 13.
- Telephone-exchange systems, Automatic switching apparatus for. J. N. Reynolds. No. 1,383,756; July 5; v. 288; p. 104.
- Telephone-exchange systems, Indicator for. E. W. Adams. No. 1,364,170; Jan. 4; v. 282; p. 24.
- Telephone-exchanges, Party-line metering system for. J. A. Hall. No. 1,383,805; July 5; v. 288; p. 114.
- Telephone instrument. H. A. Leise. No. 1,394,563; Oct. 25.
- Telephone instrument. F. J. Reichmann and J. Press. No. 1,379,287; May 24; v. 286; p. 737.
- Telephone instrument or the like. O. A. Ross. No. 1,389,902; Sept. 6; v. 290; p. 69.
- Telephone instruments, Device for use in disinfecting. R. Cooper. No. 1,381,081; June 7; v. 287; p. 146.
- Telephone-lines, Switch for. C. W. Watkins. No. 1,383,355; July 5; v. 288; p. 20.
- Telephone-mouthpiece. J. Chefer. No. 1,375,209; Apr. 19; v. 285; p. 457.
- Telephone-mouthpiece. V. Conomos. No. 1,385,862; July 26; v. 288; p. 743.
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- Telephone-muffler. L. S. Scher. No. 1,399,083; Dec. 6.
- Telephone pay-station, Automatic. G. A. Long. No. 1,383,472; July 5; v. 288; p. 44.
- Telephone plants, Call-distributing arrangement for. G. A. Betulander. No. 1,375,351; Apr. 19; v. 285; p. 484.
- Telephone-poles, Strain-jacket for. W. M. McKnight. No. 1,369,119; Feb. 22; v. 283; p. 581.
- Telephone-receiver. G. Boissonnault. No. 1,401,753; Dec. 27.
- Telephone-receiver. H. C. Harrison. No. 1,396,747; Nov. 15.
- Telephone-receiver. L. Steinberger. No. 1,366,606; Jan. 25; v. 282; p. 625.
- Telephone-receiver. L. Steinberger. No. 1,366,607; Jan. 25; v. 282; p. 625.
- Telephone-receiver support, Circuit-controlling. J. B. Furber. No. 1,386,464; Aug. 2; v. 289; p. 98.
- Telephone-receivers, Service-bracket for. S. C. Sladden. No. 1,384,101; July 12; v. 288; p. 224.
- Telephone-receivers, Support for. C. M. Clarke. No. 1,391,370; Sept. 20; v. 290; p. 519.
- Telephone repeater equipment. C. S. Demarest. No. 1,386,321; Aug. 2; v. 289; p. 72.
- Telephone repeater equipment. C. S. Demarest. A. B. Clark, and G. Crisson. No. 1,384,994; July 19; v. 288; p. 491.
- Telephone repeater, Voice-current. G. H. Kuhl. No. 1,398,728; Nov. 29.
- Telephone-service system. F. M. Slough. No. 1,391,588; Sept. 20; v. 290; p. 563.
- Telephone services, Coin-collecting means for. F. W. Hall. No. 1,364,550; Jan. 4; v. 282; p. 97.
- Telephone services, Coin-collecting means for. F. W. Hall. No. 1,364,630; Jan. 4; v. 282; p. 112.
- Telephone set. W. G. Crawford. No. 1,368,241; Feb. 15; v. 283; p. 371.
- Telephone set, Substation. J. Erickson. No. 1,373,607; Apr. 5; v. 285; p. 44.
- Telephone signaling system. C. W. Keckler. No. 1,400,076; Dec. 13.
- Telephone-stand. C. Fischer. No. 1,371,747; Mar. 15; v. 284; p. 490.
- Telephone-support, Adjustable. K. E. Lampkin. No. 1,364,118; Jan. 4; v. 282; p. 14.
- Telephone, Swingable. J. E. Thomas. No. 1,400,187; Dec. 13.
- Telephone-switch. G. W. Dickerson. No. 1,374,366; Apr. 12; v. 285; p. 232.
- Telephone-switch, Automatic. H. G. Webster. No. 1,390,409; Sept. 13; v. 290; p. 262.
- Telephone-switch separator. H. Koch. No. 1,372,437; Mar. 22; v. 284; p. 678.
- Telephone switching apparatus. J. L. McQuarrie. No. 1,376,893; May 3; v. 286; p. 98.
- Telephone switching apparatus, Automatic. J. G. Blessing. (Reissue.) No. 15,068; Mar. 22; v. 284; p. 722.
- Telephone switching apparatus, Toll. H. M. Friendly. No. 1,370,300; Mar. 1; v. 284; p. 103.
- Telephone switching apparatus, Toll. H. M. Friendly and A. E. Burns. No. 1,394,723; Oct. 25.
- Telephone switching-cabinet. J. H. Ditch and W. T. Burns. No. 1,371,874; Mar. 15; v. 284; p. 514.
- Telephone system. W. T. Booth. No. 1,386,683; Aug. 9; v. 289; p. 214.
- Telephone system. C. C. Bradbury. No. 1,377,555; May 10; v. 286; p. 280.
- Telephone system. E. C. Britton. No. 1,374,184; Apr. 12; v. 285; p. 197.
- Telephone system. B. D. Campbell. No. 1,382,891; June 28; v. 287; p. 652.
- Telephone system. H. P. Clausen. Nos. 1,393,429-30; Oct. 11.
- Telephone system. H. P. Clausen and C. L. Goodrum. No. 1,374,188; Apr. 12; v. 285; p. 198.
- Telephone system. H. P. Clausen and C. L. Goodrum. No. 1,375,276; Apr. 19; v. 285; p. 470.
- Telephone system. H. P. Clausen and C. L. Goodrum. No. 1,375,277; Apr. 19; v. 285; p. 470.
- Telephone system. H. P. Clausen and C. L. Goodrum. No. 1,380,357; June 7; v. 287; p. 6.
- Telephone system. H. P. Clausen and C. L. Goodrum. No. 1,396,730; Nov. 15.
- Telephone system. B. S. Cohen. No. 1,381,703; June 14; v. 287; p. 314.
- Telephone system. R. D. Conway. No. 1,386,689; Aug. 9; v. 289; p. 215.
- Telephone system. G. C. Crawford. No. 1,386,690; Aug. 9; v. 289; p. 215.
- Telephone system. E. Curnutt. No. 1,378,585; May 17; v. 286; p. 530.
- Telephone system. W. L. Dodge. No. 1,393,352; Oct. 11.
- Telephone system. W. L. Dodge and H. D. MacPherson. No. 1,387,367; Aug. 9; v. 289; p. 351.
- Telephone system. C. B. Fowler. No. 1,387,251; Aug. 9; v. 289; p. 326.
- Telephone system. C. L. Goodrum and H. P. Clausen. No. 1,387,386; Aug. 9; v. 289; p. 355.
- Telephone system. H. H. Ide. No. 1,381,195; June 14; v. 287; p. 219.
- Telephone system. C. W. Keckler. No. 1,387,271; Aug. 9; v. 289; p. 330.
- Telephone system. A. E. Lundell. No. 1,381,480; June 14; v. 287; p. 271.
- Telephone system. A. E. Lundell. No. 1,387,280; Aug. 9; v. 289; p. 332.
- Telephone system. H. W. MacDougal and H. D. MacPherson. No. 1,387,284; Aug. 9; v. 289; p. 333.
- Telephone system. H. D. MacPherson. No. 1,386,719; Aug. 9; v. 289; p. 221.
- Telephone system. J. L. McQuarrie. No. 1,387,282; Aug. 9; v. 289; p. 332.
- Telephone system. L. Polinkowsky. No. 1,395,595; Nov. 1.
- Telephone system. A. Raynsford. No. 1,399,998; Dec. 13.
- Telephone system. J. N. Reynolds. No. 1,387,180; Aug. 9; v. 289; p. 313.
- Telephone system. F. M. Slough. No. 1,387,669; Aug. 16; v. 289; p. 462.
- Telephone system. A. B. Sperry. No. 1,393,326; Oct. 11.
- Telephone system. J. F. Toomey. No. 1,400,583; Dec. 20.
- Telephone system. R. S. Wilbur. No. 1,383,584; July 5; v. 288; p. 67.
- Telephone system. R. S. Wilbur and C. G. Spencer. No. 1,364,909; Jan. 11; v. 282; p. 210.
- Telephone system. R. S. Wilbur and W. H. Bendernagel. No. 1,371,717; Mar. 15; v. 284; p. 484.
- Telephone system, Automatic. W. A. Chapin. No. 1,380,039; May 31; v. 286; p. 953.
- Telephone system, Automatic. J. H. Homrighous. No. 1,378,231; May 17; v. 286; p. 463.
- Telephone system, Automatic. C. W. Keckler. No. 1,367,705; Feb. 8; v. 283; p. 220.
- Telephone system, Automatic. T. G. Martin. No. 1,378,624; Apr. 5; v. 285; p. 47.
- Telephone system, Automatic. T. G. Martin. No. 1,393,806; Oct. 18.
- Telephone system, Automatic. W. T. Powell. No. 1,398,391; Nov. 29.
- Telephone system, Automatic. G. Simonetta and A. Rosa. No. 1,390,729; Sept. 13; v. 290; p. 327.
- Telephone system, Automatic. A. B. Smith. No. 1,368,850; Feb. 15; v. 283; p. 490.
- Telephone system, Automatic. J. Wicks. No. 1,385,347; July 19; v. 288; p. 562.
- Telephone system, Automatic. W. D. Willis. No. 1,376,848; May 3; v. 286; p. 89.
- Telephone system, Automatic. G. A. Yanochowski. No. 1,376,371; Apr. 26; v. 285; p. 711.
- Telephone system, Automatic district. H. E. Hershey. (Reissue.) No. 15,073; Mar. 29; v. 284; p. 908.
- Telephone system, Machine-switching. H. P. Clausen. No. 1,387,353; Aug. 9; v. 289; p. 348.
- Telephone system, Machine-switching. H. P. Clausen. No. 1,393,502; Oct. 11.
- Telephone system, Machine-switching. C. L. Goodrum. No. 1,378,947; May 24; v. 286; p. 673.
- Telephone system, Machine-switching. C. L. Goodrum. No. 1,393,521; Oct. 11.
- Telephone system, Machine-switching. C. L. Goodrum. No. 1,396,741; Nov. 15.
- Telephone system, Machine-switching. L. Polinkowsky. No. 1,381,431; June 14; v. 287; p. 262.
- Telephone system, Machine-switching. L. Polinkowsky. No. 1,386,728; Aug. 9; v. 289; p. 223.



- Telephone system, Machine-switching. W. T. Powell. No. 1,387,174; Aug. 9; v. 289; p. 312.
- Telephone system, Measured-service. E. Jacobsen. No. 1,376,814; May 3; v. 286; p. 82.
- Telephone system, Measured-service. J. Wicks. No. 1,379,068; May 24; v. 286; p. 695.
- Telephone system, Selective. A. H. Dyson. No. 1,400,590; Dec. 20.
- Telephone system, Selective. R. C. M. Hastings. No. 1,392,762; Oct. 4.
- Telephone system, Semi-automatic. G. E. Mueller. No. 1,391,135; Sept. 20; v. 290; p. 472.
- Telephone system, Semi-automatic. A. J. Seymour. No. 1,377,225; May 10; v. 286; p. 217.
- Telephone system, Semi-automatic. G. A. Yanochowski and H. E. Hershey. No. 1,379,017; May 24; v. 286; p. 686.
- Telephone system, Subscriber-operated. F. M. Slough. No. 1,391,587; Sept. 20; v. 290; p. 563.
- Telephone systems, Means for automatically recording calls in. W. J. Blair. No. 1,382,817; June 28; v. 287; p. 638.
- Telephone systems, Party-line lockout for. J. W. Dorsey. No. 1,382,766; June 28; v. 287; p. 629.
- Telephone, Thermic. R. Aernout Baron van Lynden. No. 1,389,230; Aug. 30; v. 289; p. 883.
- Telephone, Thermic. P. De Lange and R. A. Baron van Lynden. No. 1,367,949; Feb. 8; v. 283; p. 266.
- Telephone toll-circuits. O. M. Arnold and J. F. Toomey. No. 1,376,391; May 3; v. 286; p. 3.
- Telephone-transmitter. G. Boissonnault. No. 1,401,754; Dec. 27.
- Telephone-transmitter, Thermic. P. de Lange and R. Aernout Baron van Lynden. No. 1,389,242; Aug. 30; v. 289; p. 885.
- Telephone-transmitters, Guard for. G. H. Weinrich. No. 1,400,334; Dec. 13.
- Telephone-transmitters, Sanitary mouthpiece for. W. H. Palmer. No. 1,396,660; Nov. 8.
- Telephone-transmitters, Sound-concentrator for. E. E. Taylor. No. 1,377,940; May 10; v. 286; p. 356.
- Telephone trunking and supervisory system. E. A. Mellinger. No. 1,366,539; Jan. 25; v. 282; p. 611.
- Telephones, Antiseptic mouthpiece for. F. C. Tabler. No. 1,389,914; Sept. 6; v. 290; p. 72.
- Telephones, Call-registering attachment for. A. Ruebenstone. No. 1,366,024; Jan. 18; v. 282; p. 466.
- Telephones, Earpiece for thermic. P. de Lange, and R. Aernout Baron van Lynden. No. 1,366,567; Jan. 25; v. 282; p. 617.
- Telephones, Memorandum or writing appliance for use in connection with. J. M. Hattersley. No. 1,390,705; Sept. 13; v. 290; p. 322.
- Telephones, Muffler attachment for. D. Petri-Palmedo. No. 1,372,162; Mar. 22; v. 284; p. 625.
- Telephones, Receiver-hook switch for portable. J. T. Gray. No. 1,379,557; May 24; v. 286; p. 788.
- Telephones, Sanitary attachment for. H. C. Karlson. No. 1,367,267; Feb. 1; v. 283; p. 77.
- Telephonic transmitters, Amplifier for. H. T. Dale. No. 1,378,940; May 24; v. 286; p. 671.
- Telescope. H. E. Ely, Jr. No. 1,386,611; Aug. 9; v. 289; p. 199.
- Telescopes, Lens system for terrestrial. C. S. Hastings. No. 1,395,822; Nov. 1.
- Telescopic picture-frame. T. Kozlowsky and W. Rogosky. No. 1,388,956; Aug. 30; v. 289; p. 828.
- Telescopic stand. M. J. Wohl and M. Mayer. No. 1,394,596; Oct. 25.
- Teletypewriting. J. H. Hammond, Jr. No. 1,370,504; Mar. 1; v. 284; p. 142.
- Temperature-controller. F. J. Petrovics. No. 1,374,230; Apr. 12; v. 285; p. 206.
- Temperature-controller. A. Roesch. No. 1,388,894; Aug. 30; v. 289; p. 816.
- Temperature-controller. G. M. S. Tait. No. 1,382,569; June 21; v. 287; p. 537.
- Temperature-controlling device. H. E. Churchill. No. 1,377,750; May 10; v. 286; p. 318.
- Temperature-controlling device. C. Weeks. No. 1,371,957; Mar. 15; v. 284; p. 529.
- Temperature device, Constant-. L. W. Chubb and J. Shepian. No. 1,367,122; Feb. 1; v. 283; p. 48.
- Temperature device, Constant-. J. Shepian. No. 1,367,102; Feb. 1; v. 283; p. 44.
- Temperature, Device for regulating. A. Blossom. No. 1,391,935; Sept. 27; v. 290; p. 737.
- Temperatures, Device for keeping cooling-water at desirable. H. F. Waite. No. 1,373,848; Apr. 5; v. 285; p. 91.
- Temperature, Device for treatment by. J. F. Morris. No. 1,393,153; Oct. 11.
- Temperature-indicating apparatus. O. H. Olson. No. 1,382,116; June 21; v. 287; p. 451.
- Temperature-indicating device. A. L. Gersdorff. No. 1,393,279; Oct. 11.
- Temperature-indicator for radiators. A. A. Benson and H. Barnes. No. 1,398,218; Nov. 22.
- Temperature-indicator for transformers. A. T. Childs. No. 1,379,526; May 24; v. 286; p. 782.
- Temperature of rolls, Means for regulating the. J. G. Maxwell. (Reissue.) No. 15,227; Nov. 15.
- Temperature-producing mechanism and controlling means therefor. A. B. Frenier. No. 1,379,008; May 24; v. 286; p. 684.
- Temperature-regulator. J. J. Danylchuk. No. 1,380,291; May 31; v. 286; p. 1000.
- Temperature-regulator. G. S. Witham, Jr. No. 1,378,927; May 24; v. 286; p. 669.
- Temperature uses, Apparatus for high. F. A. Fahrenwald. No. 1,378,941; May 24; v. 286; p. 672.
- Temperature water-bath, Constant-. T. Lidberg. No. 1,397,766; Nov. 22.
- Temperatures, Controlling means for motor-. S. H. Page and J. B. Struble. No. 1,393,902; Oct. 18.
- Temperatures, Means for controlling. T. Lidberg. No. 1,397,694; Nov. 22.
- Temple and pieces, Forming. W. H. Boutelle. No. 1,397,919; Nov. 22.
- Temple-roll bracket. J. L. Gilleran. No. 1,374,074; Apr. 5; v. 285; p. 135.
- Templet. H. Jost. No. 1,379,630; May 31; v. 286; p. 876.
- Templet. G. J. Nies. No. 1,380,240; May 31; v. 286; p. 990.
- Templet, Dress-pattern-drafting. M. Richards. No. 1,385,586; July 26; v. 288; p. 687.
- Templet-holders, Adjustable templet-form holder for self-centering. J. D. Henon. No. 1,393,125; Oct. 11.
- Tennis-racket. P. A. Valle. No. 1,364,331; Jan. 4; v. 282; p. 55.
- Tenon. C. J. Wood. No. 1,369,154; Feb. 22; v. 283; p. 588.
- Tenoning-machine. L. Bruun. No. 1,382,621; June 28; v. 287; p. 600.
- Tensiometer. P. Riba. No. 1,380,251; May 31; v. 286; p. 992.
- Tension-controlling mechanism, Automatic. T. J. Jones. No. 1,395,830; Nov. 1.
- Tension device. J. D. Eaton. No. 1,364,259; Jan. 4; v. 282; p. 41.
- Tension device. A. Hermanns. No. 1,365,783; Jan. 18; v. 282; p. 419.
- Tension device. E. P. Hopkins. No. 1,388,342; Aug. 23; v. 289; p. 653.
- Tension device. G. T. Penland. No. 1,399,649; Dec. 6.
- Tension device. M. A. Replogle. No. 1,380,837; June 7; v. 287; p. 98.
- Tension-equalizing and shock-absorbing device. F. E. Turner. No. 1,380,125; May 31; v. 286; p. 969.
- Tension means, Self-adjusting. W. F. Grupe. No. 1,391,185; Sept. 20; v. 290; p. 481.
- Tension-operated devices, Control mechanism for. R. D. Smith. (Reissue.) No. 15,044; Feb. 15; v. 283; p. 518.
- Tension-plate wheel. W. E. Williams. No. 1,398,615; Nov. 29.
- Tension-table. J. F. Roemer. No. 1,374,115; Apr. 5; v. 285; p. 143.
- Tensioned frame. J. W. Rapp and J. Vanorio. No. 1,381,659; June 14; v. 287; p. 305.
- Tensioning and pulling device. J. M. Newton. No. 1,400,371; Dec. 13.
- Tensioning device, Automatically-adjustable. F. M. Pierce. No. 1,399,988; Dec. 13.
- Tensioning mechanism. F. P. Townsend. No. 1,386,813; Aug. 9; v. 289; p. 240.
- Tent. A. R. Nelson. No. 1,388,478; Aug. 23; v. 289; p. 680.
- Tent. J. D. Pennewell. No. 1,377,788; May 10; v. 286; p. 326.
- Tent. I. S. Purcell. No. 1,394,579; Oct. 25.
- Tent or the like. R. A. Henry. No. 1,374,300; Apr. 12; v. 285; p. 219.
- Terminal, Battery-. A. H. Haefele. No. 1,377,126; May 3; v. 286; p. 142.
- Terminal block. R. R. Haugh. No. 1,387,980; Aug. 16; v. 289; p. 524.
- Terminal, Connection-. H. D. Currier. No. 1,369,221; Feb. 22; v. 283; p. 601.
- Terminal connection. H. W. Jones. No. 1,376,627; May 3; v. 286; p. 47.
- Terminal, Electrode-. A. H. Haefele. No. 1,377,127; May 26; v. 286; p. 142.
- Terminal, Electrode-. A. H. Haefele. No. 1,377,128; May 3; v. 286; p. 143.
- Terminal for electrical purposes. E. B. Stone. No. 1,378,201; May 17; v. 286; p. 457.
- Terminal ground-clamp. W. H. Vibber. No. 1,381,770; June 14; v. 287; p. 327.
- Terminal, Resistance-unit. W. C. White. No. 1,394,055; Oct. 18.
- Terminal structure and making the same. F. Thornton, Jr. No. 1,390,596; Sept. 13; v. 290; p. 300.
- Terne plates, Method and apparatus for making. J. R. McElhaney. No. 1,392,588; Oct. 4.
- Terpene ozonid vapor, Apparatus for generating. E. D. Klots. No. 1,386,410; Aug. 2; v. 289; p. 88.
- Terpenes, Securing certain derivatives of. W. B. Pratt. No. 1,380,414; June 7; v. 287; p. 17.
- Test-connector. J. Fredericks. No. 1,387,252; Aug. 9; v. 289; p. 326.
- Test-indicator. G. J. Genung. No. 1,391,731; Sept. 27; v. 290; p. 666.
- Test-indicator. C. H. Nicholson. No. 1,399,314; Dec. 6.



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- Test-scale table. T. M. Borglum. No. 1,376,997; May 3; v. 286; p. 117.
- Test-tank. F. J. Fuller. No. 1,371,751; Mar. 15; v. 284; p. 490.
- Test unit, Automatic. E. G. Beebler. No. 1,396,312; Nov. 8.
- Testing apparatus. C. S. Demarest and H. F. Shoffstall. No. 1,369,403; Feb. 22; v. 283; p. 636.
- Testing apparatus. H. Fletcher and F. J. Strassner. No. 1,386,697; Aug. 9; v. 289; p. 216.
- Testing apparatus. C. S. Jr., and R. Sapp. No. 1,368,659; Feb. 15; v. 283; p. 453.
- Testing apparatus, Electrical. R. Smith. No. 1,372,570; Mar. 22; v. 284; p. 704.
- Testing-block. M. M. Stimmel. No. 1,367,285; Feb. 1; v. 283; p. 80.
- Testing device. R. G. Brindle. No. 1,384,886; July 19; v. 288; p. 467.
- Testing device. J. E. Mateer and C. T. Allcutt. No. 1,401,627; Dec. 27.
- Testing device. S. Stevens. No. 1,376,655; May 3; v. 286; p. 52.
- Testing device for ignition systems. H. F. Maguire. No. 1,380,228; May 31; v. 286; p. 988.
- Testing device for transmission-line insulators. F. Moore. No. 1,385,639; July 26; v. 288; p. 699.
- Testing generators, Test-stand for. J. C. Schaf, Jr., and W. J. Holliday. No. 1,397,296; Nov. 15.
- Testing-machine. A. M. Craig. No. 1,367,353; Feb. 1; v. 283; p. 94.
- Testing-machine. H. L. Scott. No. 1,372,093; Mar. 22; v. 284; p. 612.
- Testing materials and machine embodying the same. R. Guillery. No. 1,375,385; Apr. 19; v. 285; p. 490.
- Testing-mold. H. M. Davis. No. 1,394,255; Oct. 18.
- Testing of materials, Method for use in connection with the. J. W. Owens. No. 1,397,541; Nov. 22.
- Testing system. R. S. Wilbur. No. 1,396,800; Nov. 15.
- Testing the hardness of materials, Tool for. F. C. Fairholme, W. H. Hatfield, and G. Stanfield. No. 1,376,413; May 3; v. 286; p. 7.
- Textile and like printing machines. C. Roberts. No. 1,378,278; May 17; v. 286; p. 472.
- Textile and other machines, Tension mechanism. A. E. Rhoades. No. 1,366,100; Jan. 18; v. 282; p. 481.
- Textile fabric. I. Garon. No. 1,373,880; Apr. 5; v. 285; p. 98.
- Textile fibers and fabrics, Treatment of. C. Bennert. No. 1,379,881; May 24; v. 286; p. 755.
- Textile-finishing drum. J. Lunepp. No. 1,377,900; May 10; v. 286; p. 348.
- Textile goods in hank form by means of circulating liquids, Apparatus for the treatment of. E. Nagelin. No. 1,367,494; Feb. 1; v. 283; p. 122.
- Textile machine. M. F. Field. No. 1,364,092; Jan. 4; v. 282; p. 8.
- Textile-machine. C. M. Mars. No. 1,381,653; June 14; v. 287; p. 304.
- Textile-machine. H. Stephanson. No. 1,378,912; May 24; v. 286; p. 666.
- Textile-machines, Metallic heddle mechanism for. E. T. Hathaway and C. M. Mars. No. 1,379,099; May 24; v. 286; p. 791.
- Textile or other articles and materials, Device for handling and conveying. F. J. Cartledge. No. 1,367,017; Feb. 1; v. 283; p. 27.
- Textile piece goods, Machine for straightening the weft-threads of. E. Huber. No. 1,387,155; Aug. 9; v. 289; p. 308.
- Textile product derived from animal fiber and making same. W. H. Schweitzer. No. 1,389,274; Aug. 30; v. 289; p. 892.
- Textile product derived from an animal fiber and making same. W. H. Schweitzer. No. 1,389,275; Aug. 30; v. 289; p. 892.
- Textile-treating baths, Apparatus for preparing. T. Wickersham. No. 1,380,282; May 31; v. 286; p. 998.
- Textile-winders, Belt-drive for. E. P. Searing. No. 1,376,465; May 3; v. 286; p. 17.
- Textiles and other materials, Apparatus for treating. B. W. Putnam. No. 1,387,072; Aug. 9; v. 289; p. 293.
- Thawing frozen ground, Apparatus for. W. E. Moran. No. 1,390,457; Sept. 13; v. 290; p. 271.
- Theater. B. E. Torgersen. No. 1,397,064; Nov. 15.
- Theaters, Biographs, and the like, Chair with ventilating device for. B. Mollberg. No. 1,370,832; Mar. 8; v. 284; p. 250.
- Theaters, Illusionary apparatus for. L. McCormick. No. 1,372,969; Mar. 29; v. 284; p. 825.
- Theatrical apparatus. G. N. Brown. No. 1,364,699; Jan. 4; v. 282; p. 126.
- Theft-alarm. A. E. Wolcott. No. 1,366,144; Jan. 18; v. 282; p. 489.
- Theft-preventing device, Automobile. P. Welliver. No. 1,380,617; June 7; v. 287; p. 55.
- Theftproof receiver-box. H. Hannotte. No. 1,384,317; July 12; v. 288; p. 269.
- Theodolite. C. Schauff. No. 1,366,498; Jan. 25; v. 282; p. 603.
- Therapeutic apparatus. J. J. Carlotli. No. 1,375,652; Apr. 19; v. 285; p. 542.
- Therapeutic apparatus. W. Meyer. No. 1,387,607; Aug. 16; v. 289; p. 450.
- Therapeutic apparatus. R. X. Tuttle. No. 1,376,593; May 3; v. 286; p. 41.
- Therapeutic apparatus. M. R. Waggoner. No. 1,399,676; Dec. 6.
- Therapeutic appliance, Thermomagnetic. J. H. Dequer. No. 1,391,762; Sept. 27; v. 290; p. 671.
- Therapeutic light, Administering treatments. R. X. Tuttle. No. 1,395,065; Oct. 25.
- Thermal circuit-closer. R. L. McElroy. No. 1,374,596; Apr. 12; v. 285; p. 277.
- Thermal circuit-controller. W. W. Baldwin. No. 1,383,060; June 28; v. 287; p. 685.
- Thermal cut-out. D. G. Howard. No. 1,385,999; Aug. 2; v. 289; p. 7.
- Thermal cut-outs, Indicating device for. C. F. P. Carrier. No. 1,368,482; Feb. 15; v. 283; p. 418.
- Thermal mixture-fixture. S. N. Holm. No. 1,381,922; June 21; v. 287; p. 415.
- Thermally-operated device. W. E. Irish. No. 1,393,376; Oct. 11.
- Thermionic amplifier. H. D. Arnold. No. 1,398,665; Nov. 29.
- Thermionic device. G. M. Wright. No. 1,394,601; Oct. 25.
- Thermionic discharge apparatus. W. D. Coolidge. No. 1,394,145; Oct. 18.
- Thermionic transating device. A. M. Nicolson. No. 1,366,411; Jan. 25; v. 282; p. 585.
- Thermo-couple. M. A. Hunter. No. 1,393,375; Oct. 11.
- Thermoelectrical apparatus for boiling and heating purposes. J. G. Lozano. No. 1,390,719; Sept. 13; v. 290; p. 324.
- Thermometer. C. D. Bolin. No. 1,390,666; Sept. 13; v. 290; p. 315.
- Thermometer. W. H. Fitts. No. 1,394,484; Oct. 18.
- Thermometer, Clinical. M. D. Dreyfus. No. 1,391,881; Sept. 27; v. 290; p. 696.
- Thermometer, Mechanical. W. Larson. No. 1,383,827; July 5; v. 288; p. 118.
- Thermometer, Oven. H. R. Whittier. No. 1,380,621; June 7; v. 287; p. 56.
- Thermometer protector and shipping-guard. C. E. Erickson. No. 1,397,412; Nov. 15.
- Thermometer, Radiator. G. P. Pitkin. No. 1,381,005; June 7; v. 287; p. 131.
- Thermometer-reader. W. G. Laird. No. 1,367,879; Feb. 8; v. 283; p. 254.
- Thermophone. B. D. Gray. No. 1,398,687; Nov. 29.
- Thermophone element. A. M. Van Doorn. No. 1,394,454; Oct. 18.
- Thermoresponsive instrument. A. E. Stacey, Jr. No. 1,377,735; May 10; v. 286; p. 315.
- Thermos-bottle attachment. C. H. Wilson and C. G. Lee. No. 1,380,128; May 31; v. 286; p. 969.
- Thermoscope. C. E. Linebarger. No. 1,374,857; Apr. 12; v. 285; p. 327.
- Thermostat. H. H. Fogwell and J. M. Morris. No. 1,398,635; Nov. 29.
- Thermostat. W. G. Hartwig. No. 1,386,618; Aug. 9; v. 289; p. 200.
- Thermostat. E. B. Lane. No. 1,392,340; Oct. 4.
- Thermostat. F. W. Robertshaw. No. 1,387,618; Aug. 16; v. 289; p. 452.
- Thermostat. S. M. Udale. No. 1,371,277; Mar. 15; v. 284; p. 397.
- Thermostat and similar control device. P. Dodge. No. 1,397,407; Nov. 15.
- Thermostat, Pneumatic. C. E. Bonnet. No. 1,365,812; Jan. 18; v. 282; p. 425.
- Thermostats, Eccentric adjustment for. G. A. Robertshaw. No. 1,376,462; May 3; v. 286; p. 16.
- Thermostatic and pressure-sensitive devices, Expandable and collapsible element for. H. C. Mallory. No. 1,366,473; Jan. 25; v. 282; p. 598.
- Thermostatic device. E. B. Lennig. No. 1,391,329; Sept. 20; v. 290; p. 511.
- Thermostatic device. H. E. Reeve. No. 1,400,238; Dec. 13.
- Thermostatic device. H. J. C. Wells. No. 1,392,031; Sept. 27; v. 290; p. 727.
- Thermostatic switch. F. S. Denison. No. 1,390,987; Sept. 20; v. 290; p. 441.
- Thermostatic switch. G. H. Whittingham. No. 1,380,168; May 31; v. 286; p. 977.
- Thermostatic switch unit. F. W. Wolf. No. 1,366,759; Jan. 25; v. 282; p. 655.
- Thermostatic trap. R. N. Trane. No. 1,395,167; Oct. 25.
- Thermostatic water-mixer. M. O. Snediker. No. 1,397,707; Nov. 22.
- Thickener, (sewage type.) C. Allen. No. 1,374,134; Apr. 5; v. 285; p. 146.
- Thief-trap. T. N. Burghart. No. 1,368,543; Feb. 15; v. 283; p. 430.
- Thimble. G. J. Balkey. No. 1,394,394; Oct. 18.
- Thimble attachment. L. O. Oijerholm. No. 1,379,777; May 31; v. 286; p. 903.
- Thorium nitrate, Manufacturing. C. W. Davis. No. 1,368,243; Feb. 15; v. 283; p. 371.
- Thread and yarn friction guide. J. Rodger. No. 1,399,521; Dec. 6.



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- Thread and implement holder. G. M. Meyers, Jr. No. 1,401,811; Dec. 27.
- Thread, Apparatus for coloring or printing. H. P. Denison. No. 1,384,940; July 19; v. 288; p. 478.
- Thread cutter and holder. L. Alexandre. No. 1,367,791; Feb. 8; v. 283; p. 257.
- Thread-cutter for looms. E. H. Ryon. No. 1,366,949; Feb. 1; v. 283; p. 14.
- Thread cutting and tapping machine. E. Jones. No. 1,392,170; Sept. 27; v. 290; p. 754.
- Thread-cutting apparatus. W. C. Hafemeister. No. 1,896,572; Nov. 8.
- Thread-cutting die. E. E. Beck. No. 1,395,252; Nov. 1.
- Thread-cutting shuttle. W. M. Rossiter. No. 1,393,643; Oct. 11.
- Thread-cutting tools, Attachment for grinding. J. Szatmary. No. 1,379,370; May 24; v. 286; p. 753.
- Thread-cutting tools while grinding the cutting edges, Fixture for holding. H. G. Barth. No. 1,368,472; Feb. 15; v. 283; p. 416.
- Thread-delivering mechanism. T. J. Hayes. No. 1,367,387; Feb. 1; v. 283; p. 101.
- Thread ends, Means for splicing. C. Lea. No. 1,383,130; June 28; v. 287; p. 697.
- Thread-gage. R. A. Kenyon. No. 1,395,231; Oct. 25.
- Thread-gage. M. H. Thoms. No. 1,394,650; Oct. 25.
- Thread-guide. D. Ayres. No. 1,385,066; July 19; v. 288; p. 506.
- Thread-guide and attachment. F. Q. Hartman. No. 1,385,047; July 19; v. 288; p. 501.
- Thread guide and support. J. W. Oliver. No. 1,387,299; Aug. 9; v. 289; p. 336.
- Thread guide and support. J. W. Oliver and H. Brucker. No. 1,387,300; Aug. 9; v. 289; p. 337.
- Thread-guide for ball-winders. H. A. Denmire. No. 1,391,247; Sept. 20; v. 290; p. 494.
- Thread-gripping device. F. E. Bertrand. No. 1,369,773; Mar. 1; v. 284; p. 4.
- Thread-handling machine. W. A. Smith. No. 1,387,624; Aug. 16; v. 289; p. 453.
- Thread holder and cutter, Combined. T. T. Seal. No. 1,377,284; May 10; v. 286; p. 229.
- Thread holder and tensioner. E. C. Matson. No. 1,398,877; Nov. 29.
- Thread-knotter. H. P. Eanes. No. 1,390,103; Sept. 6; v. 290; p. 110.
- Thread-milling machine. R. Milne. No. 1,400,761; Dec. 20.
- Thread package or holder. R. Reynolds. No. 1,375,015; Apr. 19; v. 285; p. 420.
- Thread-parting mechanism. R. A. Marshall. No. 1,367,070; Feb. 1; v. 283; p. 37.
- Thread-remover. G. F. York. No. 1,395,936; Nov. 1.
- Thread-spinning machine. W. B. Conyngham. No. 1,395,223; Oct. 25.
- Thread-stand, Universal. J. Cohn. No. 1,367,685; Feb. 8; v. 283; p. 216.
- Thread-tension support. A. H. De Voc. No. 1,368,246; Feb. 15; v. 283; p. 372.
- Thread-tensioning means. L. Veilleux, P. H. Leveque, and J. Barnes. No. 1,393,926; Oct. 18.
- Thread-waxing device. W. C. Meyer. No. 1,387,606; Aug. 16; v. 289; p. 450.
- Threads and fabrics, Waterproofing and strengthening. L. G. R. Auzenat. No. 1,377,110; May 3; v. 286; p. 139.
- Threads, Die-head for cutting taper and straight. A. F. Breitenstein. No. 1,396,989; Nov. 15.
- Threads from viscose, Producing. C. A. Huttlinger and E. Rittenhouse. No. 1,367,603; Feb. 8; v. 283; p. 200.
- Threads, Machine for operating upon warp-. M. F. Field, C. D. Lanning, E. F. Hathaway, and F. C. Blanchard. No. 1,383,195; June 28; v. 287; p. 710.
- Threads, Method and means for straightening weft-. W. S. Rowley. No. 1,384,213; July 12; v. 288; p. 247.
- Threads, Production of. B. Borzykowski. No. 1,401,943; Dec. 27.
- Threads, Reed for spacing warp-. C. Lea. No. 1,394,431; Oct. 18.
- Threads, ribbons, films, or plates from viscose, Manufacture of artificial. M. Müller. No. 1,386,521; Aug. 2; v. 289; p. 109.
- Threading-machine, Automatic. H. Osswald. No. 1,391,492; Sept. 20; v. 290; p. 544.
- Threading machine, Bolt-. S. B. Clay. No. 1,377,146; May 3; v. 286; p. 146.
- Threading-tool. L. T. Lynn. No. 1,382,841; June 28; v. 287; p. 643.
- Three-way switch. C. de F. Smith. No. 1,389,848; Sept. 6; v. 290; p. 58.
- Three-plate mold. G. A. Stizler. No. 1,396,293; Nov. 8.
- Thresher-separator. D. E. Humbke. No. 1,366,691; Jan. 25; v. 282; p. 641.
- Threshers, Straw-distributor for harvester-. E. F. Miller. No. 1,373,667; Apr. 5; v. 285; p. 55.
- Threshing and collecting machine, Seed. J. C. Ford. No. 1,380,470; June 7; v. 287; p. 28.
- Threshing-machine. A. and B. Dion. No. 1,397,727; Nov. 22.
- Threshing-machine. G. P. Luedke. No. 1,379,112; May 24; v. 286; p. 704.
- Threshing-machine. J. S. Starling. No. 1,395,611; Nov. 1.
- Threshing-machine. F. J. Wood. No. 1,397,347; Nov. 15.
- Threshing-machine or the like. P. Oda. No. 1,374,518; Apr. 12; v. 285; p. 262.
- Threshing-machine, Traveling. J. Clove. No. 1,380,636; June 7; v. 287; p. 59.
- Threshing-machines, Adjustable sieve-holder for. H. R. Fadness. No. 1,383,918; July 5; v. 288; p. 136.
- Threshing-machines, Attachment for. L. W. Bell. No. 1,366,899; Feb. 1; v. 283; p. 4.
- Threshing-machines, Band-cutter and feeder for. T. J. Gee. No. 1,370,740; Mar. 8; v. 284; p. 233.
- Threshing-machines, Band-cutter and feeder for. I. Kirby. No. 1,388,468; Aug. 23; v. 289; p. 679.
- Threshing-machines, Band cutter and feeder for. P. Oda. No. 1,399,271; Dec. 6.
- Threshing-machines, Blower for. W. Ouellette. No. 1,383,967; July 5; v. 288; p. 147.
- Threshing-machines, Dust-conveying attachment for. J. Koterske. No. 1,401,710; Dec. 27.
- Threshing-machines, Dust-remover for. C. E. Hagen. No. 1,368,140; Feb. 8; v. 283; p. 303.
- Threshing-machines, Feeder for attachment to. J. J. A. J., and G. H. Brungardt and H. J. Drieling. No. 1,364,703; Jan. 4; v. 282; p. 126.
- Threshing-machines, Grain-saving attachment for. C. L. Gebhardt. No. 1,382,901; June 28; v. 287; p. 654.
- Throttle-pedal. D. Mills. No. 1,395,651; Nov. 1.
- Throttles, Safety device for. W. W. Sykes. No. 1,392,537; Oct. 4.
- Thrust-take-up device. F. W. Belk and A. E. Varner. No. 1,384,227; July 12; v. 288; p. 250.
- Throid product and preparing the same. E. C. Kendall. No. 1,392,767; Oct. 4.
- Throid substance and making it. E. C. Kendall. No. 1,392,768; Oct. 4.
- Thumb-brake for fishing-reels. C. T. Pfueger. No. 1,379,692; May 31; v. 286; p. 887.
- Ticket-box, Pocket. G. Russell. No. 1,370,560; Mar. 8; v. 284; p. 198.
- Ticket-case. J. J. Carr. No. 1,373,797; Apr. 5; v. 285; p. 81.
- Ticket-case. J. J. Carr. (Reissue.) No. 15,118; June 17; v. 287; p. 148.
- Ticket-case. A. E. Seinecke. No. 1,373,359; Mar. 29; v. 284; p. 901.
- Ticket, Cashier's. E. V. Bloomquist. No. 1,385,425; July 26; v. 288; p. 654.
- Ticket delivering, checking, and registering machine. A. Marsh. No. 1,378,419; May 17; v. 286; p. 498.
- Ticket-dispensing apparatus. I. J. Farrow. No. 1,383,393; July 5; v. 288; p. 28.
- Ticket guide, Interline. O. S. Payzant. No. 1,366,275; Jan. 18; v. 282; p. 515.
- Ticket guide, Interline. O. S. Payzant. No. 1,366,276; Jan. 18; v. 282; p. 516.
- Ticket-holder. P. Allard. No. 1,401,120; Dec. 27.
- Ticket-holder. E. J. Buckreis. No. 1,400,519; Dec. 20.
- Ticket-holder. W. Braunsdorf. No. 1,390,979; Sept. 20; v. 290; p. 439.
- Ticket-holder. A. Emilian and J. Rossini. No. 1,368,910; Feb. 15; v. 283; p. 501.
- Ticket-holder. F. H. Hammerle. No. 1,377,576; May 10; v. 286; p. 284.
- Ticket-holder. J. V. Perrin. No. 1,393,696; Oct. 11.
- Ticket-issuing mechanism. H. A. Myers. No. 1,385,388; July 26; v. 288; p. 646.
- Ticket-holder and lid-sustainer, Combined. E. W. Hoelscher. No. 1,397,734; Nov. 22.
- Ticket holder, Price-. G. A. Berry. No. 1,366,113; Jan. 18; v. 282; p. 483.
- Ticket holder, Price-. G. A. Berry. No. 1,392,622; Oct. 4.
- Ticket holder, Price-. L. and H. Hopp. No. 1,398,782; Nov. 29.
- Ticket-issuing machine. G. A. Julius and F. A. Wilkin-son. No. 1,395,279; Nov. 1.
- Ticket-issuing machine, Railway-. H. A. Martin. No. 1,398,562; Nov. 29.
- Ticket-locker in ticket-selling rooms of railway-stations. H. Pautze. No. 1,387,662; Aug. 16; v. 289; p. 461.
- Ticket-machine. E. E. Spengler. No. 1,391,424; Sept. 20; v. 290; p. 530.
- Ticket or check notching device. J. A. Fellows. No. 1,391,536; Sept. 20; v. 290; p. 553.
- Ticket, Pin-. J. R. Bayer. No. 1,383,063; June 28; v. 287; p. 685.
- Ticket printing and issuing mechanism. F. S. Kerl. No. 1,385,756; July 26; v. 288; p. 722.
- Ticket-printing mechanism. C. L. Lee. No. 1,391,129; Sept. 20; v. 290; p. 470.
- Tickets and transfers, Time-marking device for. J. W. Pope. No. 1,370,482; Mar. 1; v. 284; p. 138.
- Tickets, Machine for printing and issuing railway-. F. L. Fuller. No. 1,382,637; June 28; v. 287; p. 604.
- Tickets, Self-controlling apparatus for stamping. J. Pahud and J. Huguenin. No. 1,368,831; Feb. 15; v. 283; p. 486.
- Tide-motor. H. Williams. No. 1,393,472; Oct. 11.
- Tide-power apparatus. P. C. Dolliver. No. 1,364,619; Jan. 1; v. 282; p. 110.



*Alphabetical list of inventions—Continued.*

- Tie: See—  
 Bag-tie.  
 Composite railway-tie.  
 Concrete tie.  
 Concrete railway-tie.  
 Holder and tie.  
 Metal tie.  
 Metal rail-tie.  
 Metallic tie.  
 Metallic railway-tie.  
 Tie. E. H. Benn. No. 1,390,190; Sept. 6; v. 290; p. 127.  
 Tie. A. B. Chauncy. No. 1,373,949; Apr. 5; v. 285; p. 111.  
 Tie. R. M. Grizzle and A. H. Thacker. No. 1,392,146; Sept. 27; v. 290; p. 749.  
 Tie. H. T. Kruse. No. 1,384,531; July 12; v. 288; p. 313.  
 Tie. J. C. Moell. No. 1,380,235; May 31; v. 286; p. 989.  
 Tie. J. W. Ryan. No. 1,390,928; Sept. 13; v. 290; p. 367.  
 Tie and boltless rail-joint, Combined. H. O. McGregor. No. 1,384,700; July 12; v. 288; p. 349.  
 Tie and rail-clamp. J. W. Falk. No. 1,390,108; Sept. 6; v. 290; p. 111.  
 Tie and rail-fastener. G. H. Anthony. No. 1,384,006; July 5; v. 288; p. 155.  
 Tie and rail-fastener. J. O. Klein. No. 1,396,581; Nov. 8.  
 Tie and rail-fastener, Combined. J. C. Detloff. No. 1,372,610; Mar. 22; v. 284; p. 711.  
 Tie and rail holder. J. Ahlby. No. 1,401,935; Dec. 27.  
 Tie-clasp. E. R. Youngs. No. 1,380,459; June 7; v. 287; p. 26.  
 Tie-clip. F. S. and R. K. Maker. No. 1,381,846; June 14; v. 287; p. 341.  
 Tie device. J. J. Englert. No. 1,367,029; Feb. 1; v. 283; p. 29.  
 Tie-fastener. M. Henry. No. 1,388,259 Aug. 23; v. 289; p. 636.  
 Tie-fastener. W. T. Merriman. No. 1,379,034; May 24; v. 286; p. 689.  
 Tie-frame. S. Williamson. No. 1,384,370; July 12; v. 288; p. 280.  
 Tie-holder. J. Crnoev. No. 1,400,663; Dec. 20.  
 Tie-holder. E. Larson. No. 1,371,176; Mar. 8; v. 284; p. 315.  
 Tie-keeper. G. C. Snyder. No. 1,386,660; Aug. 9; v. 289; p. 209.  
 Tie lifter and holder. R. Evans. No. 1,391,822; Sept. 27; v. 290; p. 683.  
 Tie-plate. G. L. Adams. No. 1,392,733; Oct. 4.  
 Tie-plate. W. R. Dunham, Jr. No. 1,372,126; Mar. 22; v. 284; p. 618.  
 Tie-plate. D. P. Kellogg. No. 1,367,551; Feb. 8; v. 283; p. 191.  
 Tie-plate. G. W. Nibbe. No. 1,389,686; Sept. 6; v. 290; p. 25.  
 Tie-plate. F. Quist. No. 1,377,524; May 10; v. 286; p. 275.  
 Tie-plate and clamp. G. Adams. No. 1,396,805; Nov. 15.  
 Tie-plate and rail anchor, Combined. W. P. Ware. No. 1,395,691; Nov. 1.  
 Tie-plate and rail-antireepeer. A. Ooley. No. 1,382,848; June 28; v. 287; p. 644.  
 Tie-plate and rail-fastener. W. A. Butler. No. 1,392,398; Oct. 4.  
 Tie-plate mounting for U-rail sections. G. W. Whiteman. No. 1,388,135; Aug. 16; v. 289; p. 554.  
 Tie press and holder. N. M. Dyer. No. 1,371,879; Mar. 15; v. 284; p. 515.  
 Tie-puller. P. Miller. No. 1,400,692; Dec. 20.  
 Tie, Railway-. J. G. Horniak. No. 1,397,964; Nov. 22.  
 Tie-slide and collar-button. C. L. Gentry. No. 1,367,871; Feb. 8; v. 283; p. 253.  
 Tie-slip. C. Rosier. No. 1,399,579; Dec. 6.  
 Tie-straightener. C. L. Cole. No. 1,379,801; May 31; v. 286; p. 908.  
 Ties, Tool for twisting. H. B. Foulder. No. 1,387,249; Aug. 9; v. 289; p. 325.  
 Tightening device. T. Davis. No. 1,366,904; Feb. 1; v. 283; p. 4.  
 Tightening device, Pitman-. C. R. Griner. No. 1,392,760; Oct. 4.  
 Tie. J. B. Lancaster. No. 1,398,698; Nov. 29.  
 Tie-anchoring device. J. B. Lancaster. No. 1,396,764; Nov. 15.  
 Tie and sewer trap. W. Walker. No. 1,397,471; Nov. 15.  
 Tie, Antislipping. H. K. Dodge. No. 1,377,960; May 10; v. 286; p. 360.  
 Tie, Antislipping vitrified. M. F. Beecher. No. 1,377,957; May 10; v. 286; p. 359.  
 Tie block. M. Dochnal. No. 1,396,265; Nov. 8.  
 Tie, brick, &c., Machine for the manufacture of. G. H. Wightman and T. A. Long. No. 1,369,864; Mar. 1; v. 284; p. 21.  
 Tie, Building-. H. C. Blank. No. 1,400,407; Dec. 13.  
 Tie, Building-. R. G. Simons. No. 1,387,809; Aug. 16; v. 289; p. 491.  
 Tie-cutter, Automatic. N. C. Whitney. No. 1,400,473; Dec. 13.  
 Tie, Drain-. E. E. Trowbridge. No. 1,393,329; Oct. 11.  
 Tie-forming machine. H. P. Domine. No. 1,377,188; May 10; v. 286; p. 210.  
 Tie, Hollow. J. V. Close. No. 1,395,176; Oct. 25.  
 Tile, Hollow building-. L. B. Green. No. 1,365,825; Jan. 18; v. 282; p. 427.  
 Tile-making machine striking-plate. A. Müller. No. 1,366,583; Jan. 25; v. 282; p. 620.  
 Tile, Manufacture of hollow. F. Dochnal. No. 1,369,522; Feb. 22; v. 283; p. 658.  
 Tile, Roofing-. I. Greenberg. No. 1,391,891; Sept. 27; v. 290; p. 697.  
 Tile, Roofing-. R. Joseph. No. 1,395,423; Nov. 1.  
 Tile, Roofing-. M. M. Tromm. No. 1,370,716; Mar. 8; v. 284; p. 228.  
 Tile-sorting machine. B. L. Benson. No. 1,369,377; Feb. 22; v. 283; p. 630.  
 Tile, Translucid antislipping-. M. F. Beecher. No. 1,374,136; Apr. 5; v. 285; p. 147.  
 Tile-trench digger. L. H. Larson. No. 1,369,446; Feb. 22; v. 283; p. 644.  
 Tiles and pasting same to paper, Method and apparatus for spacing. B. L. Benson. No. 1,379,160; May 24; v. 286; p. 712.  
 Tiles and the like, Apparatus for edging. A. N. Zavagno. No. 1,394,392; Oct. 18.  
 Tiles, Mold for making. G. W. Vought. No. 1,365,753; Jan. 18; v. 282; p. 413.  
 Tiles, more especially while subject to heat treatment, Method of and means for supporting. P. D. Dressler. No. 1,368,219; Feb. 8; v. 283; p. 319.  
 Tiles, Tool for handling. A. A. Clymer. No. 1,401,046; Dec. 20.  
 Tillage implement. E. W. Burgess. No. 1,388,930; Aug. 30; v. 289; p. 823.  
 Tillage implement. J. L. Irving. No. 1,391,544; Sept. 20; v. 290; p. 555.  
 Tillage-implement tooth. S. W. Cady. No. 1,366,557; Jan. 25; v. 282; p. 615.  
 Tillage, Soil-. S. H. Garst. No. 1,396,037; Nov. 8.  
 Tiller, Adjustable. T. T. Tvedt. No. 1,395,534; Nov. 1.  
 Tilling implement. F. B. Munshaw. No. 1,368,962; Feb. 15; v. 283; p. 510.  
 Tilling-machines, Tilling apparatus for self-propelled. A. Petit. No. 1,365,192; Jan. 11; v. 282; p. 264.  
 Tilling-tool. G. Sykes. No. 1,384,220; July 12; v. 288; p. 248.  
 Tiltable post. C. A. Poole. No. 1,367,830; Feb. 8; v. 283; p. 245.  
 Tilting locking steering-wheel. E. N. Pagelsen. No. 1,365,846; Jan. 18; v. 282; p. 432.  
 Tilting or gravity trap. H. J. Mastenbrook and C. C. Lauritsen. No. 1,389,065; Aug. 30; v. 289; p. 850.  
 Time-actuated electrical switch mechanism. M. F. Roebing. No. 1,398,916; Nov. 29.  
 Time and cost computing and recording mechanism. P. Wilson. No. 1,385,414; July 26; v. 288; p. 651.  
 Time-calculating machine. E. M. Smith. No. 1,377,856; May 10; v. 286; p. 339.  
 Time-calculator. E. C. Stumme. No. 1,387,082; Aug. 9; v. 289; p. 295.  
 Time-card, pay-envelope, and daily-production record. M. Adler. No. 1,392,613; Oct. 4.  
 Time-clock. R. C. Lewis. No. 1,386,575; Aug. 2; v. 289; p. 119.  
 Time combination-lock. C. Miller. No. 1,384,397; July 12; v. 288; p. 285.  
 Time control. J. L. Winkler. No. 1,383,893; July 5; v. 288; p. 132.  
 Time-controlled mechanism. W. H. Greenleaf. No. 1,388,858; Aug. 30; v. 289; p. 808.  
 Time-controlled switch. W. D. Harrison and F. E. Best. No. 1,367,699; Feb. 8; v. 283; p. 219.  
 Time-controlled switch. J. Rubin. No. 1,370,488; Mar. 1; v. 284; p. 139.  
 Time-indicating and signaling device, Automatic. C. M. Crook. No. 1,383,533; July 5; v. 288; p. 56.  
 Time-indicating and signaling instrument, Automatic. C. M. Crook and J. R. Gammeter. No. 1,383,534; July 5; v. 288; p. 57.  
 Time-indicating device. W. A. Lyons. No. 1,390,801; Sept. 13; v. 290; p. 341.  
 Time-indicating device. W. A. Lyons. No. 1,397,319; Nov. 15.  
 Time-indicating system. A. L. Sohm. No. 1,394,647; Oct. 25.  
 Time indicator, Medicine-taking-. D. L. Fish. No. 1,370,956; Mar. 8; v. 284; p. 274.  
 Time-recorder. R. F. Downey. No. 1,395,400; Nov. 1.  
 Time-recorder, Workman's. W. T. Geltz. No. 1,389,641; Sept. 6; v. 290; p. 16.  
 Time-recording apparatus. W. Bollier and I. Diemand. No. 1,395,665; Nov. 1.  
 Time-recording registers, Ribbon-reversing mechanism for. H. B. McCabe. No. 1,397,895; Nov. 22.  
 Time-release mechanism. R. C. Leake. No. 1,384,533; July 12; v. 288; p. 313.  
 Timed or intermittent operating device. A. S. Greenwood. No. 1,376,531; May 3; v. 286; p. 29.  
 Timer. E. T. Curtiss. No. 1,380,316; May 31; v. 286; p. 1005.  
 Timer. E. S. Rush. (Reissue.) No. 15,107; May 17; v. 286; p. 578.  
 Timer. S. E. Selleck. No. 1,399,366; Dec. 6.  
 Timer. W. F. Service. No. 1,391,419; Sept. 20; v. 290; p. 529.



*Alphabetical list of inventions—Continued.*

- Timer. A. E. Smith. No. 1,371,940; Mar. 15; v. 284; p. 526.
- Timer. H. Zins. No. 1,369,072; Feb. 22; v. 283; p. 572.
- Timer-cover device. J. Jespersen. No. 1,375,390; Apr. 19; v. 285; p. 491.
- Timer, Engine. P. J. Dell, Jr. No. 1,385,907; July 26; v. 288; p. 752.
- Timer wire system. F. B. Hartl. No. 1,371,419; Mar. 15; v. 284; p. 426.
- Timing apparatus. Electrically-operated. E. W. Gent. No. 1,391,947; Sept. 27; v. 290; p. 709.
- Timing device. J. S. Kennedy. No. 1,367,148; Feb. 1; v. 283; p. 53.
- Timing device. R. M. G. Phillips. No. 1,375,973; Apr. 26; v. 285; p. 635.
- Timing mechanism. O. Z. Brewer. No. 1,378,318; May 17; v. 286; p. 479.
- Timing mechanism. R. M. G. Phillips. No. 1,393,394; Oct. 11.
- Timer-wires, Conduit for. M. Jackson. No. 1,396,758; Nov. 15.
- Timers, Spring-brush for. W. J. Spiro. No. 1,397,150; Nov. 15.
- Timing device, Automatic. W. R. Allen. No. 1,398,000; Nov. 22.
- Timepiece and indicating device, Combination. G. E. Hunter. No. 1,373,005; Mar. 29; v. 284; p. 831.
- Timepiece-movement. T. F. I. O'Brien. No. 1,391,340; Sept. 20; v. 290; p. 513.
- Timepiece-movements, Arbor-bearing for. F. Ecaubert. No. 1,371,022; Mar. 8; v. 284; p. 286.
- Timepieces, Device for mounting. G. T. Blunden. No. 1,393,607; Oct. 11.
- Timepieces, Escapement for. I. Greenwald. No. 1,398,776; Nov. 29.
- Timepieces, Hand-setting mechanism for. S. W. Balch. No. 1,375,347; Apr. 19; v. 285; p. 484.
- Timepieces, Hand-setting mechanism for. S. W. Balch. No. 1,375,348; Apr. 19; v. 285; p. 484.
- Timepieces, Mainspring-barrel for. H. A. Borresen. No. 1,392,676; Oct. 4.
- Timepieces, Main-wheel unit for. E. H. Horn. No. 1,378,866; May 24; v. 286; p. 657.
- Timepieces, &c., Means for regulating. V. S. Hardey. No. 1,396,198; Nov. 8.
- Tin andterne plates, Treating tin-scruff produced in making. G. H. Clegg. No. 1,365,456; Jan. 11; v. 282; p. 316.
- Tin, Electrolytic refining of. F. C. Mathers. No. 1,397,222; Nov. 15.
- Tin-opener. G. Kracht. No. 1,399,061; Dec. 6.
- Tin oxid and zinc oxid, Production of. D. de Ros. No. 1,372,407; Mar. 22; v. 284; p. 673.
- Tin scrap, Obtaining iron and tin from. P. A. Mackay. No. 1,387,443; Aug. 9; v. 289; p. 366.
- Tins, Apparatus for opening air-tight. F. F. Coaker. No. 1,376,515; May 3; v. 286; p. 26.
- Tins, Means for facilitating the opening of. A. Blanks. No. 1,375,551; Apr. 19; v. 285; p. 522.
- Tinning-machine. R. C. Roberts. No. 1,373,023; Mar. 29; v. 284; p. 835.
- Tinning mechanism. M. H. Campbell. No. 1,368,020; Feb. 8; v. 283; p. 280.
- Tinsel and the like, Machine for making. B. M. Osburn and H. D. Walker. No. 1,394,340; Oct. 18.
- Tinsel, Machine for making. R. B. Benjamin and J. M. Curless. No. 1,377,548; May 10; v. 286; p. 279.
- Tip-up seat. A. Main. No. 1,394,036; Oct. 18.
- Tipping mechanism. W. F. Grupe. No. 1,393,524; Oct. 11.
- Tire. A. L. Austin. No. 1,381,094; June 7; v. 287; p. 148.
- Tire. H. Besser. No. 1,372,116; Mar. 22; v. 284; p. 616.
- Tire. G. E. Bullock. No. 1,381,105; June 14; v. 287; p. 202.
- Tire. O. Buse. No. 1,370,280; Mar. 1; v. 284; p. 100.
- Tire. W. L. Clendenning. No. 1,401,045; Dec. 20.
- Tire. J. Crane. No. 1,387,242; Aug. 9; v. 289; p. 324.
- Tire. De L. Davis. No. 1,374,637; Apr. 12; v. 285; p. 285.
- Tire. D. J. Demas. No. 1,383,190; June 28; v. 287; p. 709.
- Tire. F. C. Doss. No. 1,372,284; Mar. 22; v. 284; p. 649.
- Tire. W. G. Fording. No. 1,401,148; Dec. 27.
- Tire. E. Grill. No. 1,393,773; Oct. 18.
- Tire. F. Hickman. No. 1,364,758; Jan. 4; v. 282; p. 137.
- Tire. W. L. Kemper. No. 1,385,252; July 19; v. 288; p. 543.
- Tire. V. Kubelka. No. 1,383,822; July 5; v. 288; p. 117.
- Tire. S. D. Master. No. 1,385,882; July 26; v. 288; p. 747.
- Tire. T. Mori. No. 1,377,782; May 10; v. 286; p. 325.
- Tire. H. Owen. No. 1,398,200; Nov. 22.
- Tire. T. J. Reed. No. 1,379,043; May 24; v. 286; p. 691.
- Tire. S. Rice. No. 1,398,574; Nov. 29.
- Tire. R. Sera. No. 1,380,501; June 7; v. 287; p. 34.
- Tire. D. D. Swager. No. 1,370,380; Mar. 1; v. 284; p. 118.
- Tire. H. H. Swan. No. 1,393,849; Oct. 18.
- Tire. A. C. Terrell. No. 1,368,304; Feb. 15; v. 283; p. 383.
- Tire. R. W. Wood. No. 1,365,434; Jan. 11; v. 282; p. 311.
- Tire air nozzle and gage. A. C. Robinson. No. 1,371,645; Mar. 15; v. 284; p. 470.
- Tire, Airless. C. H. Light. No. 1,388,350; Aug. 23; v. 289; p. 655.
- Tire, Airless. F. E. Nelson. No. 1,364,790; Jan. 4; v. 282; p. 143.
- Tire-alarm. J. E. Parr. No. 1,364,300; Jan. 4; v. 282; p. 50.
- Tire-alarm. O. F. Schröder. No. 1,391,513; Sept. 20; v. 290; p. 548.
- Tire alarm, Flat. K. Riddle. No. 1,396,284; Nov. 8.
- Tire and constructing same. A. E. Preyer. No. 1,373,094; Mar. 29; v. 284; p. 848.
- Tire and rim, Vehicle. F. M. Henry. No. 1,371,167; Mar. 8; v. 284; p. 313.
- Tire, Antiskid. C. P. Salgee. No. 1,381,749; June 14; v. 287; p. 323.
- Tire, Antiskid. C. P. Salgee. No. 1,385,926; July 26; v. 288; p. 756.
- Tire-applying apparatus, Motor. W. C. Stevens and C. W. Steele. No. 1,388,902; Aug. 30; v. 289; p. 817.
- Tire-armor. W. H. Aldridge. No. 1,401,301; Dec. 27.
- Tire-armor. J. M. Baker. No. 1,384,817; July 19; v. 288; p. 453.
- Tire-armor. C. F. Ockerman. No. 1,371,927; Mar. 15; v. 284; p. 524.
- Tire-armor. M. Pianko. No. 1,382,381; June 21; v. 287; p. 501.
- Tire armor and antiskid device. A. Remar. No. 1,385,753; July 26; v. 288; p. 722.
- Tire-armor and antiskid device, Combined. G. Soldani. No. 1,373,985; Apr. 5; v. 285; p. 119.
- Tire-armor, Exterior. W. F. McMonagall. No. 1,373,342; Mar. 29; v. 284; p. 898.
- Tire armor, Pneumatic. J. Stasse. No. 1,381,027; June 7; v. 287; p. 135.
- Tire, Armored. S. J. Flynn. No. 1,401,061; Dec. 20.
- Tire, Armored pneumatic. J. B. and C. B. Morelli. No. 1,400,450; Dec. 13.
- Tire, Armored pneumatic. G. M. Stivers. No. 1,399,324; Dec. 6.
- Tire attachment, Non-skid. C. D. Mulertz. No. 1,389,777; Sept. 6; v. 290; p. 43.
- Tire, Auto. J. Strzykowski. No. 1,370,714; Mar. 8; v. 284; p. 228.
- Tire, Automobile. W. J. Davis and J. Hammell. No. 1,378,331; May 17; v. 286; p. 482.
- Tire, Automobile. H. C. Egerton. No. 1,382,718; June 28; v. 287; p. 620.
- Tire, Automobile. J. A. Grant. No. 1,391,541; Sept. 20; v. 290; p. 554.
- Tire, Automobile. J. G. Kuhn. No. 1,401,610; Dec. 27.
- Tire, Automobile. A. S. McClurg. No. 1,400,301; Dec. 13.
- Tire, Automobile. M. E. Osborn and J. R. Wollam. No. 1,380,496; June 7; v. 287; p. 33.
- Tire, Automatic. I. Trantman. No. 1,381,602; June 14; v. 287; p. 294.
- Tire-band-making machine. J. L. G. Dykes. No. 1,370,100; Mar. 1; v. 284; p. 65.
- Tire-bases to rims, Apparatus for attaching. A. Weatherill. No. 1,394,186; Oct. 18.
- Tire-beds, Apparatus for covering. E. D. Putt. No. 1,370,911; Mar. 8; v. 284; p. 264.
- Tire-beds, Apparatus for solutioning. T. A. Burns and D. J. Huether. No. 1,395,036; Oct. 25.
- Tire-beds, Reinforcement for. M. A. Marquette. No. 1,385,383; July 26; v. 288; p. 645.
- Tire-blow-out clamp and emergency mud-hook. C. T. Lippold. No. 1,392,425; Oct. 4.
- Tire-boot. M. C. Seymour. No. 1,377,098; May 3; v. 286; p. 137.
- Tire-building machine. J. L. Butler. No. 1,382,471; June 21; v. 287; p. 519.
- Tire-building machine. R. T. Griffiths, O. Anderson, and J. O. Goodwin. No. 1,368,393; Feb. 15; v. 283; p. 400.
- Tire-building machine. F. C. Morton. No. 1,399,979; Dec. 13.
- Tire-building machine, Rubber. R. McClenathen. No. 1,380,667; June 7; v. 287; p. 65.
- Tire-building machine (stationary). W. H. Hermann. No. 1,399,118; Dec. 6.
- Tire-building machine, (vertical adjustment.) W. H. Hermann. No. 1,368,929; Feb. 15; v. 283; p. 505.
- Tire-callipers. R. M. Pierson. No. 1,394,347; Oct. 18.
- Tire-carrier. J. F. Brennan. No. 1,366,240; Jan. 18; v. 282; p. 509.
- Tire-carrier. E. R. Draver. No. 1,379,297; May 24; v. 286; p. 738.
- Tire-carrier. E. E. Ellis and H. A. Thomas. No. 1,387,772; Aug. 16; v. 289; p. 483.
- Tire-carrier. W. R. Green. (Reissue.) No. 15,027; Jan. 18; v. 282; p. 528.
- Tire-carrier. W. R. Green. No. 1,376,753; Apr. 26; v. 285; p. 593.
- Tire-carrier. C. G. Gronquist. No. 1,390,204; Sept. 6; v. 290; p. 129.
- Tire-carrier. M. L. Gruber. No. 1,390,528; Sept. 13; v. 290; p. 286.
- Tire-carrier. R. C. Kissinger. No. 1,392,507; Oct. 4.
- Tire-carrier. S. Rymowicz. No. 1,380,420; June 7; v. 287; p. 18.
- Tire-carrier. H. V. Teeter. No. 1,381,366; June 14; v. 287; p. 250.



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- Tire carrier and lock, Double-. G. C. Mather. No. 1,381,321; June 14; v. 287; p. 242.
- Tire-carrier and rim spreader and constrictor, Combined. O. C. Schlenker. No. 1,393,319; Oct. 11.
- Tire-carrier-locking device. H. Walker. No. 1,384,982; July 19; v. 288; p. 488.
- Tire carrier, Spare-. F. Aumann. No. 1,401,031; Dec. 20.
- Tire carrier, Spare-. H. B. Hazen and G. Henderson. No. 1,371,088; Mar. 8; v. 284; p. 299.
- Tire-cases, Machine and method for introducing tubes into. N. D. Chellis. No. 1,379,169; May 24; v. 286; p. 714.
- Tire-casing. C. W. Miegel. No. 1,375,527; Apr. 19; v. 285; p. 518.
- Tire-casing. C. E. Miller. No. 1,393,952; Oct. 18.
- Tire-casing. F. G. Renos. No. 1,398,975; Dec. 6.
- Tire-casing. A. Sacks. No. 1,365,280; Jan. 11; v. 282; p. 282.
- Tire-casing core. F. Smith and T. H. Brittain. No. 1,366,750; Jan. 25; v. 282; p. 653.
- Tire-casing filler. W. M. McEwen. No. 1,389,005; Aug. 30; v. 289; p. 839.
- Tire-casing filler, Resilient-. L. F. Biesmeyer and O. Stocksick. No. 1,388,843; Aug. 30; v. 289; p. 805.
- Tire-casing fillers, Making. F. M. Netzel. No. 1,397,842; Nov. 22.
- Tire-casing-inspecting apparatus. E. Ramsdell. No. 1,376,579; May 3; v. 286; p. 38.
- Tire-casing-repair tool. H. J. Otto. No. 1,380,008; May 31; v. 286; p. 947.
- Tire-casing treads and removing beads, Machine for cutting. C. D. Hibbs. No. 1,392,330; Oct. 4.
- Tire-casings, Apparatus for curing. F. J. Gostlin. No. 1,378,172; May 17; v. 286; p. 452.
- Tire-casings, Apparatus for manufacturing pneumatic. W. G. Lerch. No. 1,381,316; June 14; v. 287; p. 241.
- Tire-casings, Applying lubricant to. W. F. Ray. No. 1,377,729; May 10; v. 286; p. 314.
- Tire-casings, Core for. F. L. Bailey and J. H. La Grant. No. 1,399,180; Dec. 6.
- Tire-casings, Core for. J. B. Binns. No. 1,400,258; Dec. 13.
- Tire-casings, Expandable and collapsible core for. W. G. Fording. No. 1,373,229; Mar. 29; v. 284; p. 876.
- Tire-casings, Machine for cutting sections from. J. W. Brundage. No. 1,398,123; Nov. 22.
- Tire casings, Machine for removing cores from pneumatic. N. Y. Momitsa. No. 1,386,644; Aug. 9; v. 289; p. 205.
- Tire-casings, Reinforcement for. W. S. Gauntt and B. B. Morris. No. 1,364,928; Jan. 11; v. 282; p. 214.
- Tire-casings, Repairing. F. D. Goodlake. No. 1,374,846; Apr. 12; v. 285; p. 325.
- Tire-casings, &c., Support for. A. P. Schmitt. No. 1,391,857; Sept. 27; v. 290; p. 691.
- Tire-chain. A. L. Banker. No. 1,369,076; Feb. 22; v. 283; p. 573.
- Tire-chain. C. S. Barrell. No. 1,374,347; Apr. 12; v. 285; p. 228.
- Tire-chain. H. A. F. Bellach. No. 1,371,140; Mar. 8; v. 284; p. 308.
- Tire-chain. C. S. Hamilton. No. 1,389,503; Aug. 30; v. 289; p. 937.
- Tire-chain. M. L. Henderson. No. 1,389,870; Sept. 6; v. 290; p. 62.
- Tire-chain. R. J. Kleineck. No. 1,380,215; May 31; v. 286; p. 986.
- Tire-chain. E. Moore. No. 1,386,522; Aug. 2; v. 289; p. 109.
- Tire-chain, Antiskid. W. Gries. (Reissue.) No. 1,518,3; Aug. 30; v. 289; p. 951.
- Tire-chain, Antiskid. A. L. Johnston, Jr. No. 1,378,821; May 17; v. 286; p. 576.
- Tire-chain-applying device. A. S. Noonan. No. 1,378,606; May 17; v. 286; p. 535.
- Tire chain, Automobile-. D. and J. McComb. No. 1,391,261; Sept. 20; v. 290; p. 497.
- Tire-chain - connecting device. W. Lumatainen. No. 1,389,590; Sept. 6; v. 290; p. 6.
- Tire-chain connection. P. E. Fellows. No. 1,368,030; Feb. 8; v. 283; p. 281.
- Tire-chain fastener. A. W. Edgeborg. No. 1,396,103; Nov. 8.
- Tire-chain fastener. A. H. Ringen. No. 1,369,546; Feb. 22; v. 283; p. 663.
- Tire-chain guard. C. A. Bull. No. 1,393,745; Oct. 18.
- Tire-chain lock and elastic take-up. A. A. Smith and H. W. Paine. No. 1,374,771; Apr. 12; v. 285; p. 310.
- Tire-chain retainer. G. E. Sellers. No. 1,384,639; July 12; v. 288; p. 336.
- Tire-chain retainer. E. Zigler. No. 1,382,045; June 21; v. 287; p. 438.
- Tire-chain tool. J. D. McCoy. No. 1,397,592; Nov. 22.
- Tire-chains Safety connector for. C. W. Hammett and W. R. Frazer. No. 1,364,109; Jan. 4; v. 282; p. 12.
- Tire-changing tool. E. B. Steffy. No. 1,397,465; Nov. 15.
- Tire-cleaning apparatus. H. G. Ballou. No. 1,365,581; Jan. 4; v. 282; p. 340.
- Tire construction. O. H. P. S. Anderson. No. 1,365,076; Jan. 11; v. 282; p. 242.
- Tire construction. L. G. Carillon. No. 1,374,904; Apr. 19; v. 285; p. 398.
- Tire construction. W. F. Beasley. No. 1,378,313; May 17; v. 286; p. 478.
- Tire construction. O. Zancan. No. 1,385,653; July 26; v. 288; p. 702.
- Tire construction, Resilient-. E. Veltung. No. 1,373,370; Mar. 29; v. 284; p. 903.
- Tire, Cord. R. Ehle. No. 1,364,870; Jan. 11; v. 282; p. 203.
- Tire-core. W. A. Black. No. 1,378,315; May 17; v. 286; p. 479.
- Tire-core. W. A. Black. No. 1,384,508; July 12; v. 288; p. 308.
- Tire-core. W. A. Black. No. 1,388,447; Aug. 23; v. 289; p. 675.
- Tire-core binder. E. G. Rupert. No. 1,369,549; Feb. 22; v. 283; p. 664.
- Tire-core, Collapsible. H. A. Denmire. No. 1,399,936; Dec. 13.
- Tire-core, Collapsible. F. A. Watson. No. 1,382,035; June 21; v. 287; p. 436.
- Tire core, Pneumatic. F. Paulsen. No. 1,368,527; Feb. 15; v. 283; p. 427.
- Tire core, Pneumatic. F. Paulsen. No. 1,379,834; May 31; v. 286; p. 914.
- Tire-core-stripping machine. C. Kuentzel. No. 1,395,434; Nov. 1.
- Tire-cover. W. H. Moore. No. 1,389,838; Sept. 6; v. 290; p. 56.
- Tire-cover. H. S. Dube. No. 1,398,259; Nov. 29.
- Tire covers or castings, Machine for making pneumatic. C. Macbeth and F. Fellowes. No. 1,397,133; Nov. 15.
- Tire, Cushion-. H. L. Bethel. No. 1,366,051; Jan. 18; v. 282; p. 471.
- Tire, Cushion-. J. C. Busche. No. 1,369,394; Feb. 22; v. 283; p. 634.
- Tire, Cushion-. T. Comeau. No. 1,371,863; Mar. 15; v. 284; p. 512.
- Tire, Cushion-. M. H. Condry. No. 1,372,669; Mar. 29; v. 284; p. 764.
- Tire, Cushion-. A. John. No. 1,398,862; Nov. 29.
- Tire, Cushion-. D. W. Kirby. No. 1,383,818; July 5; v. 288; p. 116.
- Tire, Cushion-. S. D. Master. No. 1,367,824; Feb. 8; v. 283; p. 243.
- Tire, Cushion-. J. Saulsberry. No. 1,393,909; Oct. 18.
- Tire, Cushion-. B. C. Swinehart. No. 1,394,589; Oct. 25.
- Tire-cushion, Inner. J. W. and G. F. Burgess. No. 1,375,032; Apr. 19; v. 285; p. 423.
- Tire, Cushioned. H. C. Babel. No. 1,378,832; May 24; v. 286; p. 651.
- Tire, Cushioning-. R. M. Clark. No. 1,369,728; Feb. 22; v. 283; p. 699.
- Tire-cutting machine. W. C. Reinhardt and O. H. Banker. No. 1,393,164; Oct. 11.
- Tire-deflation indicator. E. O. Carvin. No. 1,365,375; Jan. 11; v. 282; p. 300.
- Tire-deflation indicator. C. W. Zimmerman. No. 1,398,992; Dec. 6.
- Tire deflation, Warning-signal for. F. E. Hafelfinger. No. 1,389,655; Sept. 6; v. 290; p. 19.
- Tire-deflector. M. Shimada. No. 1,392,231; Sept. 27; v. 290; p. 767.
- Tire, Demountable spring-. L. Compe. No. 1,378,246; May 17; v. 286; p. 466.
- Tire-display support. W. M. Carter. No. 1,388,848; Aug. 30; v. 289; p. 806.
- Tire-dressing wheel. P. E. and S. M. Taber. No. 1,395,309; Nov. 1.
- Tire, Elastic. K. Fukuda. No. 1,377,011; May 3; v. 286; p. 120.
- Tire, Emergency-. W. F. Aichele. No. 1,377,170; May 10; v. 286; p. 207.
- Tire, Emergency-. W. B. Banfield. No. 1,380,627; June 7; v. 287; p. 57.
- Tire, Emergency-. R. O. Dutcher. No. 1,371,150; Mar. 8; v. 284; p. 310.
- Tire, Emergency-. P. M. Garson. No. 1,394,410; Oct. 18.
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- Tire, Emergency automobile-. C. G. Gerlach. No. 1,385,612; July 26; v. 288; p. 693.
- Tire-fastener. A. O. Kunert. No. 1,373,009; Mar. 29; v. 284; p. 832.
- Tire fastener, Vehicle-. W. H. Parham. Nos. 1,395,205-6; Oct. 25.
- Tire fastener, Vehicle-. W. H. Parham. No. 1,396,778; Nov. 15.
- Tire fastener, Vehicle-. W. H. Parham. No. 1,398,603; Nov. 29.
- Tire-filler. R. Ambühl and M. Teitsch. No. 1,389,806; Sept. 6; v. 290; p. 49.
- Tire-filler. H. A. Andresen. No. 1,372,587; Mar. 22; v. 284; p. 707.
- Tire-filler. V. Cuttitta. No. 1,369,626; Feb. 22; v. 283; p. 680.
- Tire filler, Automobile-. S. D. Mills and H. Paul. No. 1,396,648; Nov. 8.
- Tire-fillers, Making. E. F. Brannen, Sr. No. 1,289,093; Aug. 30; v. 289; p. 856.
- Tire-filling apparatus. Z. Olsson. (Reissue.) No. 15,065; Mar. 15; v. 284; p. 538.
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- Tire-finishing mechanism. M. A. Replogle. No. 1,385,975; July 26; v. 288; p. 765.



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- Tire for automobiles, Emergency. J. H. Skogman. No. 1,400,915; Dec. 20.
- Tire for automobiles, Extricator-. E. L. Hotchkiss. No. 1,374,920; Apr. 19; v. 285; p. 401.
- Tire for tractor-wheels, Detachable. E. Schneider. No. 1,373,530; Apr. 5; v. 285; p. 30.
- Tire for vehicle-wheels, Cushion-. J. Rosick. No. 1,394,358; Oct. 18.
- Tire for vehicle-wheels, Resilient. V. E. Kanter. No. 1,372,232; Mar. 22; v. 284; p. 639.
- Tire for vehicle-wheels, Spring-. A. K. Lovell. No. 1,385,629; July 26; v. 288; p. 696.
- Tire for wheels of vehicles, Elastic. R. Rà Court Beadon. No. 1,398,169; Nov. 22.
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- Tire-gage. H. P. Kraft. No. 1,366,469; Jan. 25; v. 282; p. 597.
- Tire-gage. A. B. Low. No. 1,388,275; Aug. 23; v. 289; p. 640.
- Tire-gage, Automatic. E. R. Hooker and E. C. Rausrud. No. 1,377,582; May 10; v. 286; p. 285.
- Tire-grip-chain fastener. I. Sauerwald. No. 1,397,056; Nov. 15.
- Tire-guard. H. M. A. Miller. No. 1,387,797; Aug. 16; v. 289; p. 489.
- Tire-holder. R. J. Barr. No. 1,366,639; Jan. 18; v. 282; p. 508.
- Tire-holder. L. A. Grams. No. 1,386,401; Aug. 2; v. 289; p. 86.
- Tire-holder. G. A. Lyon. No. 1,386,187; Aug. 2; v. 289; p. 45.
- Tire-holder. G. A. Lyon. No. 1,386,188; Aug. 2; v. 289; p. 45.
- Tire-holder. R. C. Montgomery. No. 1,374,089; Apr. 5; v. 285; p. 138.
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- Tire holder and rear bumper for automobiles, Combined spare-. W. P. Hammond. No. 1,376,807; May 3; v. 286; p. 81.
- Tire holder, Automobile-. H. M. Bognes. No. 1,376,739; May 3; v. 286; p. 68.
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- Tire holder, Automobile-. G. A. Lyon. No. 1,386,185; Aug. 2; v. 289; p. 45.
- Tire holder, Spare-. C. G. Gronquist. No. 1,365,588; Jan. 11; v. 282; p. 342.
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- Tire holder, Spare-. A. Maurer and J. J. Brossoit. No. 1,393,563; Oct. 11.
- Tire-inflating pump. T. M. Davies. No. 1,377,563; May 10; v. 286; p. 282.
- Tire inflator and tester or gage. L. N. Herring. No. 1,371,089; Mar. 8; v. 284; p. 299.
- Tire, Inlaid-tread. J. H. Dwork. No. 1,381,173; June 14; v. 287; p. 215.
- Tire inner tube. J. B. Little. No. 1,366,849; Jan. 25; v. 282; p. 673.
- Tire-insert, Puncture-proof. R. B. Disbrow. No. 1,384,243; July 12; v. 288; p. 253.
- Tire-lever, Adjustable. W. J. Owens. No. 1,398,602; Nov. 29.
- Tire-lifter. E. D. Redfield. No. 1,371,574; Mar. 15; v. 284; p. 457.
- Tire-lock. H. G. Levy. No. 1,370,977; Mar. 8; v. 284; p. 277.
- Tire-lock. J. C. Schenk. No. 1,386,367; Aug. 2; v. 289; p. 79.
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- Tire-locking device. E. H. Vincent. No. 1,390,402; Sept. 13; v. 290; p. 261.
- Tire-loosening machine. A. O. Abbott, Jr. No. 1,384,419; July 12; v. 288; p. 290.
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- Tire-making machine. W. B. Harsel and E. Nall. Nos. 1,395,182-3; Oct. 25.
- Tire making machine. C. Kuentzel. No. 1,364,386; Jan. 4; v. 282; p. 65.
- Tire-making machine. R. S. Troegner. No. 1,397,154; Nov. 15.
- Tire-mandrels, Making. D. A. Clark and C. E. Lowe. No. 1,380,528; June 7; v. 287; p. 39.
- Tire manufacture, Air-bag for pneumatic. H. F. Maranville. No. 1,390,303; Sept. 13; v. 290; p. 241.
- Tire-mold. J. R. Earp. No. 1,392,487; Oct. 4.
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- Tire-mold. H. M. Lambert. No. 1,386,512; Aug. 2; v. 289; p. 107.
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- Tire-mold. H. M. Lambert. No. 1,386,514; Aug. 2; v. 289; p. 107.
- Tire-mold. T. Midgley. No. 1,368,641; Feb. 15; v. 283; p. 449.
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- Tire-mold. V. A. Parker. No. 1,390,058; Sept. 6; v. 290; p. 101.
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- Tire-mold. E. H. Trump. No. 1,375,543; Apr. 19; v. 285; p. 521.
- Tire-mold. C. L. Walton. No. 1,380,085; May 31; v. 286; p. 961.
- Tire-mold. G. H. Witsaman. No. 1,373,389; Mar. 29; v. 284; p. 907.
- Tire-molds, Tire-supporting device for. A. H. Harris. No. 1,384,463; July 12; v. 288; p. 299.
- Tire-molding apparatus. C. W. Stickel. No. 1,376,123; Apr. 26; v. 285; p. 664.
- Tire-molding core, Automobile-. F. Smith and T. H. Brittain. No. 1,366,290; Jan. 18; v. 282; p. 518.
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- Tire-mounting device. J. Hoffer. No. 1,372,660; Mar. 22; v. 284; p. 721.
- Tire nipple, Pneumatic-. H. Stommel. No. 1,376,048; Apr. 26; v. 285; p. 649.
- Tire, Non-collapsible. J. B. Lynch. No. 1,398,700; Nov. 29.
- Tire, Non-puncturable, and non-collapsible pneumatic inside. O. Yates. No. 1,401,507; Dec. 27.
- Tire-nut-turning device. C. O. Poole. No. 1,377,028; May 3; v. 286; p. 124.
- Tire of road and like vehicles. A. Orr. No. 1,391,905; Sept. 27; v. 290; p. 700.
- Tire-opener. D. C. Woodworth. No. 1,388,909; Aug. 30; v. 289; p. 819.
- Tire-patch. D. M. Campbell and H. E. Little. No. 1,381,966; June 21; v. 287; p. 424.
- Tire-patch containers, Abrading element for. J. A. Duffy. No. 1,364,429; Jan. 4; v. 282; p. 74.
- Tire, Pneumatic. H. H. Allyn. No. 1,398,482; Nov. 29.
- Tire, Pneumatic. N. Baldwin. No. 1,389,024; Aug. 30; v. 289; p. 843.
- Tire, Pneumatic. B. Breuer. No. 1,396,697; Nov. 8.
- Tire, Pneumatic. J. H. Courvoisier. No. 1,386,599; Aug. 9; v. 289; p. 196.
- Tire, Pneumatic. W. H. Emeno. No. 1,396,170; Nov. 8.
- Tire, Pneumatic. A. F. Fairchild. No. 1,371,672; Mar. 15; v. 284; p. 476.
- Tire, Pneumatic. T. D. Frazier. No. 1,383,458; July 5; v. 288; p. 42.
- Tire, Pneumatic. F. V. Gardner. No. 1,372,417; Mar. 22; v. 284; p. 675.
- Tire, Pneumatic. R. W. Goodhart. No. 1,364,931; Jan. 11; v. 282; p. 215.
- Tire, Pneumatic. C. F. A. Gray. No. 1,396,742; Nov. 15.
- Tire, Pneumatic. J. Guagliardo. No. 1,379,915; May 31; v. 286; p. 929.
- Tire, Pneumatic. L. A. Hill. No. 1,399,556; Dec. 6.
- Tire, Pneumatic. N. Jackson. No. 1,384,134; July 12; v. 288; p. 131.
- Tire, Pneumatic. F. W. Lanchester. No. 1,372,757; Mar. 29; v. 284; p. 781.
- Tire, Pneumatic. E. W. Lee. No. 1,392,951; Oct. 11.
- Tire, Pneumatic. G. W. Lindley. No. 1,395,686; Nov. 1.
- Tire, Pneumatic. W. S. McClevey. No. 1,396,515; Nov. 8.
- Tire, Pneumatic. G. Michaelsen and J. J. Roth, Sr. No. 1,401,483; Dec. 27.
- Tire, Pneumatic. A. F. Morey. No. 1,382,216; June 21; v. 287; p. 469.
- Tire, Pneumatic. W. P. Porter. No. 1,394,787; Oct. 25.
- Tire, Pneumatic. L. R. Poschadel. No. 1,401,814; Dec. 27.
- Tire, Pneumatic. H. S. Rector. No. 1,395,770; Nov. 1.
- Tire, Pneumatic. W. H. Richards. No. 1,386,204; Aug. 2; v. 289; p. 48.
- Tire, Pneumatic. H. Ryder. No. 1,392,853; Oct. 4.
- Tire, Pneumatic. B. C. Seaton. No. 1,374,957; Apr. 19; v. 285; p. 408.
- Tire, Pneumatic. R. Stock. No. 1,395,614; Nov. 1.
- Tire, Pneumatic. H. S. Williams. No. 1,379,887; May 31; v. 286; p. 924.
- Tire, Pneumatic and cushion. G. W. Okey. No. 1,390,057; Sept. 6; v. 290; p. 101.
- Tire, Pneumatic cushioned. A. H. Kerr. No. 1,382,918; June 28; v. 287; p. 657.
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- Tire-pressure device and gage for vulcanizing-molds. C. and B. C. Duncan. No. 1,391,374; Sept. 20; v. 290; p. 520.
- Tire-pressure gage. W. A. Allen. No. 1,370,678; Mar. 8; v. 284; p. 221.
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- Tire-protecting antiskid appliance. H. S. Lyster. No. 1,398,732; Nov. 29.
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- Tire-protector, Detachable. B. E. Breitweiser. No. 1,393,196; Oct. 11.
- Tire-protector, Non-skid. E. W. Leech, Jr. No. 1,394,312; Oct. 18.
- Tire protector, Non-skid. C. E. Young. No. 1,386,668; Aug. 9; v. 289; p. 210.
- Tire protector, Pneumatic. P. Evancho. No. 1,383,612; July 5; v. 288; p. 73.
- Tire-protector, Pneumatic. L. I. Jones. No. 1,371,097; Mar. 8; v. 284; p. 300.
- Tire-pump. M. J. Chaikin. No. 1,388,326; Aug. 23; v. 289; p. 650.
- Tire-pump. R. C. Hilton. No. 1,375,843; Apr. 26; v. 285; p. 610.
- Tire-pump. H. Taylor. No. 1,369,059; Feb. 22; v. 283; p. 569.
- Tire pump, Pneumatic. J. L. Harper. No. 1,373,068; Mar. 29; v. 284; p. 843.
- Tire pumps, Pneumatic. J. C. Gilbert. No. 1,379,096; May 24; v. 286; p. 700.
- Tire, Puncture-proof. S. Kaufman. No. 1,366,080; Jan. 18; v. 282; p. 477.
- Tire, Puncture-proof auto. R. H. Fenley. No. 1,381,815; June 14; v. 287; p. 335.
- Tire-rack. R. S. Freeman. No. 1,378,778; May 17; v. 286; p. 568.
- Tire-rack. T. K. Lawrence. No. 1,364,442; Jan. 4; v. 282; p. 77.
- Tire-rack. R. I. Short. No. 1,377,733; May 10; v. 286; p. 314.
- Tire-rack for motor-vehicles. J. D. Ovens. No. 1,365,946; Jan. 18; v. 282; p. 452.
- Tire-remover. J. M. and W. A. Baker. No. 1,369,770; Mar. 1; v. 284; p. 3.
- Tire-removing apparatus, Pneumatic. H. A. Miller. No. 1,396,707; Nov. 8.
- Tire-removing tool. O. A. Norlund. No. 1,385,948; July 26; v. 288; p. 760.
- Tire-repairing apparatus. J. Reinhardt. No. 1,367,626; Feb. 8; v. 283; p. 205.
- Tire repairing, Vehicle. P. T. Coffield. No. 1,372,938; Mar. 29; v. 284; p. 818.
- Tire, Resilient. J. M. Abrams. No. 1,392,671; Oct. 4.
- Tire, Resilient. J. M. Abrams. No. 1,392,672; Oct. 4.
- Tire, Resilient. R. H. Bowman. No. 1,392,571; Oct. 4.
- Tire, Resilient. E. B. Brookshire. No. 1,397,359; Nov. 15.
- Tire, Resilient. L. R. Davis. No. 1,382,630; June 28; v. 287; p. 602.
- Tire, Resilient. B. G. Erler. No. 1,390,895; Sept. 13; v. 290; p. 360.
- Tire, Resilient. L. and J. Hanan. No. 1,379,979; May 31; v. 286; p. 941.
- Tire, Resilient. O. M. Lockwood. No. 1,366,696; Jan. 25; v. 282; p. 642.
- Tire, Resilient. C. S. Morse. No. 1,382,376; June 21; v. 287; p. 500.
- Tire, Resilient. W. B. Shaw. No. 1,384,678; July 12; v. 288; p. 345.
- Tire, Resilient. J. F. Stranahan. No. 1,399,670; Dec. 6.
- Tire, Resilient. J. S. Williams. No. 1,382,399; June 21; v. 287; p. 505.
- Tire, Resilient automobile. G. W. Sell. No. 1,368,198; Feb. 8; v. 283; p. 314.
- Tire, Resilient metal. E. Enos. No. 1,381,069; June 7; v. 287; p. 143.
- Tire, Resilient tubeless. A. H. Young. No. 1,373,119; Mar. 29; v. 284; p. 851.
- Tire-retaining rim for automobile-wheels. E. W. Knapp. No. 1,390,043; Sept. 6; v. 290; p. 98.
- Tire-retreading apparatus and retreading tire-casings. J. H. Miller. No. 1,375,528; Apr. 19; v. 285; p. 518.
- Tire-rim. E. Acha. No. 1,371,063; Mar. 8; v. 284; p. 294.
- Tire-rim. J. Egan. No. 1,368,493; Feb. 15; v. 283; p. 420.
- Tire-rim. C. N. Haufler. No. 1,394,009; Oct. 18.
- Tire-rim carrier. C. F. Wasserfallen. No. 1,384,222; July 12; v. 288; p. 249.
- Tire-rim contractor. V. Winquist. No. 1,381,383; June 14; v. 287; p. 253.
- Tire rim, Demountable. L. D. Allen. No. 1,377,173; May 10; v. 286; p. 207.
- Tire-rim for use on automobiles and other vehicles. T. W. Costello. No. 1,394,252; Oct. 18.
- Tire-rim for vehicles. C. Fak. No. 1,389,496; Aug. 30; v. 289; p. 936.
- Tire-rim tool. H. H. Fischer. No. 1,366,173; Jan. 18; v. 282; p. 495.
- Tire-rim tool. S. W. Neldner. No. 1,376,723; May 3; v. 286; p. 65.
- Tire, Rubber. W. T. Clifford-Earp. No. 1,397,795; Nov. 22.
- Tire, Sectional pneumatic. R. W. Goodhart. No. 1,364,930; Jan. 11; v. 282; p. 214.
- Tire setter, Rubber. A. P. Berg. No. 1,394,400; Oct. 18.
- Tire-shade. G. T. Lee. No. 1,401,088; Dec. 20.
- Tire-shield. G. Soldani. No. 1,373,984; Apr. 5; v. 285; p. 119.
- Tire-shield and clencher-irons therefor. A. Tokheim. No. 1,399,826; Dec. 13.
- Tire shoes, Making pneumatic. F. W. Russell. No. 1,393,644; Oct. 11.
- Tire-signal, Automatic. W. A. Stephens. No. 1,388,007; Aug. 16; v. 289; p. 529.
- Tire signaling device, Electrical. F. Bergler. No. 1,369,725; Feb. 22; v. 283; p. 699.
- Tire slabbing and punching press. T. W. Hand. No. 1,387,260; Aug. 9; v. 289; p. 327.
- Tire, Sponge-rubber cushion. T. W. Costello. No. 1,371,472; Mar. 15; v. 284; p. 437.
- Tire-spreader. T. L. Harkins. No. 1,371,480; Mar. 15; v. 284; p. 438.
- Tire-spreader. A. Marks. No. 1,379,354; May 24; v. 286; p. 750.
- Tire-spreader. F. M. Molloy. No. 1,364,947; Jan. 11; v. 282; p. 218.
- Tire-spreader. E. A. Raynaud. No. 1,375,065; Apr. 19; v. 285; p. 430.
- Tire-spreader. O. Sundby. No. 1,380,436; June 7; v. 287; p. 21.
- Tire-spreader. C. A. Witham. No. 1,367,446; Feb. 1; v. 283; p. 112.
- Tire-spreading tool. D. O. Nation. No. 1,373,348; Mar. 29; v. 284; p. 900.
- Tire-spreading tool. D. O. Nation. No. 1,400,453; Dec. 13.
- Tire, Spring. W. W. Allen. No. 1,365,016; Jan. 11; v. 282; p. 232.
- Tire, Spring. E. M. Curry. No. 1,390,024; Sept. 6; v. 290; p. 94.
- Tire, Spring. J. Davis. No. 1,387,360; Aug. 9; v. 289; p. 349.
- Tire, Spring. F. C. Geisdorf. No. 1,386,564; Aug. 2; v. 289; p. 117.
- Tire, Spring. E. S. Johnson. No. 1,395,420; Nov. 1.
- Tire, Spring. A. L. Lasnier. No. 1,390,143; Sept. 6; v. 290; p. 118.
- Tire, Spring. C. O. Nelson. No. 1,370,703; Mar. 8; v. 284; p. 226.
- Tire, Spring. G. E. Siino. No. 1,391,985; Sept. 27; v. 290; p. 718.
- Tire, Spring. W. E. Stout. No. 1,385,804; July 26; v. 288; p. 732.
- Tire, Spring. W. G. Wagner. No. 1,392,667; Oct. 4.
- Tire, Spring. N. C. Woodward. No. 1,390,948; Sept. 13; v. 290; p. 371.
- Tire-stripping machines, Control for. M. Davis. No. 1,384,431; July 12; v. 288; p. 293.
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- Tire test-gage and valve, Combined. K. F. Lees. No. 1,368,511; Feb. 15; v. 283; p. 424.
- Tire-tool. W. F. Atkinson. No. 1,389,114; Aug. 30; v. 289; p. 860.
- Tire-tool. J. Bjornlie. No. 1,372,796; Mar. 29; v. 284; p. 789.
- Tire-tool. D. M. Boone. No. 1,376,070; Apr. 26; v. 285; p. 654.
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- Tire-tool. J. H. Layden. No. 1,370,132; Mar. 1; v. 284; p. 71.
- Tire-tool. N. Lewsen. No. 1,378,696; May 17; v. 286; p. 552.
- Tire-tool. O. Mobley. No. 1,392,591; Oct. 4.
- Tire tool, Automobile. F. J. Harbert. No. 1,378,787; May 17; v. 286; p. 570.
- Tire tool, Automobile. W. T. Ivey. No. 1,388,717; Aug. 23; v. 289; p. 726.
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- Tire-valves, Dust-cap for. H. P. Kraft. No. 1,401,541; Dec. 27.
- Tire-valves, Dust-cover for. G. E. Garrett. No. 1,381,627; June 14; v. 287; p. 298.
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- Tire, Vehicle-. E. Sterns. No. 1,367,995; Feb. 8; v. 283; p. 275.
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- Tires, Blow-out closure device or patch for pneumatic. A. M. Clark. No. 1,366,358; Jan. 25; v. 282; p. 574.
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- Tires, Building-. K. B. Kilborn. No. 1,382,367; June 21; v. 287; p. 498.
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- Tires, Cord for. A. P. Eves. No. 1,369,273; Feb. 22; v. 283; p. 610.
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- Tires, Expandable core for vehicle-. A. Huetter. No. 1,368,631; Feb. 15; v. 283; p. 447.
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- Tires, Inner tube for. R. F. Corless. No. 1,389,815; Sept. 6; v. 290; p. 51.
- Tires, Inner tube for. R. Jones. No. 1,389,362; Aug. 30; v. 289; p. 910.
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- Tires, Inner tube for pneumatic. T. O. Markell. No. 1,369,257; Feb. 22; v. 283; p. 608.
- Tires, Low-pressure alarm for pneumatic. W. A. Harris. No. 1,368,927; Feb. 15; v. 283; p. 504.
- Tires, Low-pressure signal for automobile. L. Y. Chard. No. 1,397,619; Nov. 22.
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- Tires, Making. J. A. Swinehart. No. 1,366,220; Jan. 18; v. 282; p. 504.
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- Tires, Making motor-vehicle. E. Hopkinson. No. 1,374,505; Apr. 12; v. 285; p. 259.
- Tires, Manufacture of. W. H. Fulton. No. 1,393,998; Oct. 18.
- Tires, Manufacture of resilient. A. J. Ostberg and A. Kenny. No. 1,367,496; Feb. 1; v. 283; p. 122.
- Tires, Manufacturing. J. C. Tuttle. No. 1,392,608; Oct. 4.
- Tires, Manufacturing solid. D. E. Goodenberger. No. 1,392,576; Oct. 4.
- Tires, Manufacturing the covers of pneumatic. T. Sloper. No. 1,372,567; Mar. 22; v. 284; p. 703.
- Tires, Manufacturing vehicle. A. J. Roussey. No. 1,389,221; Aug. 30; v. 289; p. 881.
- Tires, Material for producing patches for pneumatic. J. J. Voorhees. No. 1,385,805; July 26; v. 288; p. 732.
- Tires, Metal inner casing for automobile. J. B. Mead. No. 1,371,180; Mar. 8; v. 284; p. 315.
- Tires, Method and apparatus for manufacturing. W. C. Stevens. No. 1,398,749; Nov. 29.
- Tires, Method and means for applying legends or designs to. J. A. McLane. No. 1,371,501; Mar. 15; v. 284; p. 443.
- Tires, Mold for retreading automobile. A. B. Legnard. No. 1,368,263; Feb. 15; v. 283; p. 376.
- Tires, Mold for vulcanizing pneumatic. W. Seward. No. 1,380,425; June 7; v. 287; p. 19.
- Tires, Pad for attaching valves to. A. T. Pickens. No. 1,376,970; May 3; v. 286; p. 113.
- Tires, Patch for pneumatic. J. R. Buechler. No. 1,375,825; Apr. 26; v. 285; p. 606.
- Tires, Pressure gage and cut-off for pneumatic. E. G. Kunke and H. E. Thompson. No. 1,387,991; Aug. 16; v. 289; p. 526.
- Tires, Pressure-gage for pneumatic. F. Ogle. No. 1,399,272; Dec. 6.
- Tires, Pressure-gage for pneumatic. M. C. Schweinert and H. P. Kraft. No. 1,379,220; May 24; v. 286; p. 724.
- Tires, Pressure-indicator for pneumatic. W. M. Myers. No. 1,370,988; Mar. 8; v. 284; p. 280.
- Tires, Process and apparatus for vulcanizing. P. E. Hawkinson. No. 1,397,209; Nov. 15.
- Tires, Process of and mold for rebuilding. H. G. Ballou. No. 1,374,805; Apr. 12; v. 285; p. 317.
- Tires, Protecting-armor for. H. N. Pappas. No. 1,388,597; Aug. 23; v. 289; p. 703.
- Tires, Protective covering for rubber. H. C. Sankey. No. 1,381,345; June 14; v. 287; p. 246.
- Tires, Puncture-proof shoe for pneumatic. S. J. Todd. No. 1,393,185; Oct. 11.
- Tires, Puncture-proof-tube protector for automobile. V. Harvey and C. D. Harding. No. 1,396,200; Nov. 8.
- Tires, Repairing device for bicycle. R. Stañez. No. 1,385,591; July 26; v. 288; p. 688.
- Tires, Rim for mounting. H. B. Hardy. No. 1,377,343; May 10; v. 286; p. 241.
- Tires, Rim-guard for. R. W. Pritchard. No. 1,388,000; Aug. 16; v. 289; p. 528.
- Tires, Segmental casing for. R. N. Ink. No. 1,399,430; Dec. 6.
- Tires, Separable rim for. R. Garnett. No. 1,390,610; Sept. 13; v. 296; p. 303.
- Tires, Spreader for pneumatic. H. P. Kraft. No. 1,391,482; Sept. 20; v. 290; p. 542.
- Tires, Spreader for pneumatic. H. P. Kraft. No. 1,391,483; Sept. 20; v. 290; p. 542.
- Tires, Spring-cushion device for vehicle. M. Jelalian. No. 1,393,377; Oct. 11.
- Tires, Temporary or permanent support for vehicle solid band. B. and S. H. Lee. No. 1,385,920; July 26; v. 288; p. 754.
- Tires, Tire-valve for truck. L. O. Gibson. No. 1,376,868; May 3; v. 286; p. 93.
- Tires to rims, Fastening cushion. L. F. Nienaber. No. 1,391,846; Sept. 27; v. 290; p. 689.
- Tires, Tractor-tread for pneumatic. J. J. Gillyn. No. 1,380,952; June 7; v. 287; p. 120.
- Tires, Tread for vehicle. F. B. Carlisle. No. 1,400,263; Dec. 13.
- Tires, Valve control for pneumatic. J. N. Newsom. No. 1,392,440; Oct. 4.
- Tires, Valve-pad for pneumatic. N. F. Rice. No. 1,395,731; Nov. 1.
- Tires, Vulcanizing pneumatic. W. Seward. No. 1,380,426; June 7; v. 287; p. 19.
- Tires, Wheel-rim-clamping device for automobile. U. S. Sanders. No. 1,397,813; Nov. 22.
- Titanium-nitrogen compounds, Process for the synthetic production of. F. von Bichowsky and J. F. Harthan. No. 1,391,148; Sept. 20; v. 290; p. 474.
- Titanium-nitrogen compounds, Synthesizing. F. von Bichowsky and J. F. Harthan. No. 1,391,147; Sept. 20; v. 290; p. 474.
- Titanium-oxid products, Manufacture of white. P. Farup. No. 1,368,392; Feb. 15; v. 283; p. 400.
- Titanium pigment and its production. V. M. Goldschmidt. No. 1,389,191; Aug. 30; v. 289; p. 875.
- Title-record. J. F. Woodmansee. No. 1,386,216; Aug. 2; v. 289; p. 51.
- Toaster. E. A. Rutenber. No. 1,364,811; Jan. 4; v. 282; p. 147.
- Toaster. R. F. Teal. No. 1,375,122; Apr. 19; v. 285; p. 440.
- Toaster. C. Wilson. No. 1,377,043; May 3; v. 286; p. 127.
- Toaster, Bread. S. Heath. No. 1,397,959; Nov. 22.
- Toaster, Bread. C. P. Strite. No. 1,387,670; Aug. 16; v. 289; p. 462.
- Toaster, Bread. C. P. Strite. No. 1,394,450; Oct. 18.
- Toaster, Electric. E. A. Christoph. No. 1,393,427; Oct. 11.
- Toaster, Upright electric. H. W. Jutton. No. 1,395,345; Nov. 1.
- Tobacco, Air-heating device for supplying heated air to buildings for curing. J. B. Muse. No. 1,372,034; Mar. 22; v. 284; p. 601.
- Tobacco-bag. R. S. Reynolds. No. 1,371,934; Mar. 15; v. 284; p. 525.
- Tobacco-bag mouth. O. U. Jahelka. No. 1,370,448; Mar. 1; v. 284; p. 131.
- Tobacco-box. G. Barac. No. 1,390,866; Sept. 13; v. 290; p. 354.
- Tobacco-box. H. E. Brunelle. No. 1,384,937; July 19; v. 288; p. 478.
- Tobacco-can, Pocket. R. S. Losee. No. 1,396,226; Nov. 8.
- Tobacco-display case. F. J. Squire. No. 1,401,825; Dec. 27.
- Tobacco-leaf crusher. S. Pells. No. 1,401,438; Dec. 27.
- Tobacco-leaf, stemming, straightening, and hooking machine. J. O. Morris. No. 1,381,489; June 14; v. 287; p. 272.
- Tobacco leaf, Treating. J. S. Villacorta. No. 1,401,106; Dec. 20.
- Tobacco-looper. F. M. Comstock. No. 1,376,318; Apr. 26; v. 285; p. 701.
- Tobacco-machine. G. H. Jackson. No. 1,366,386; Jan. 25; v. 282; p. 580.
- Tobacco-packaging machines, Container-handling device for. G. W. Gwinn. No. 1,364,990; Jan. 11; v. 282; p. 226.
- Tobacco-packaging machines, Folding device for. G. W. Gwinn. No. 1,365,399; Jan. 11; v. 282; p. 305.
- Tobacco-packaging machines, Moistening device for. G. W. Gwinn. No. 1,365,400; Jan. 11; v. 282; p. 305.
- Tobacco-packer. E. Slack. No. 1,397,060; Nov. 15.
- Tobacco, Packing and preserving plug. J. Peterson. Nos. 1,398,568-9; Nov. 29.
- Tobacco-pipe. C. G. Dossin. No. 1,397,946; Nov. 22.
- Tobacco-pipe. H. Gregson. No. 1,395,817; Nov. 1.
- Tobacco-pipe. J. W. Ivory. No. 1,386,933; Aug. 9; v. 289; p. 265.
- Tobacco-pipe. R. T. Wright. No. 1,401,226; Dec. 27.
- Tobacco-pipe and cigar and cigarette holder. A. Webber. No. 1,373,849; Apr. 5; v. 285; p. 91.
- Tobacco, Plug. C. C. Dula. No. 1,365,969; Jan. 18; v. 282; p. 456.
- Tobacco pouch, Makings. T. Wright. No. 1,389,175; Aug. 30; v. 289; p. 872.
- Tobacco-receptacle. A. J. Guill. No. 1,383,935; July 5; v. 288; p. 140.
- Tobacco stem rolling and leaf hooking machinery. G. H. Jackson. No. 1,387,545; Aug. 16; v. 289; p. 438.
- Tobacco stemming and hooking machine. J. H. Dean. No. 1,387,244; Aug. 9; v. 289; p. 324.
- Tobacco-stemming machine. J. W. Slaughter. No. 1,397,551; Nov. 22.
- Tobacco-stemming machine. J. P. Scovill. No. 1,388,487; Aug. 23; v. 289; p. 682.
- Tobacco stripping and hooking machine. J. Laurell. No. 1,380,813; June 7; v. 287; p. 94.
- Tobacco-stripping machine. U. L. Hendricks. No. 1,365,992; Jan. 18; v. 282; p. 460.
- Tobacco-tablet. F. Schwartz. No. 1,376,586; May 3; v. 286; p. 39.
- Tobogzan, Water. H. Cuculli. No. 1,399,469; Dec. 6.
- Toe-bolt. F. C. Knapik. No. 1,400,364; Dec. 13.
- Toe form, Box. A. J. Ryan. No. 1,401,365; Dec. 27.
- Toe-softening machine. M. Brock. No. 1,373,481; Apr. 5; v. 285; p. 20.



- Toggle, J. E. Goewey. No. 1,373,188; Mar. 29; v. 284; p. 868.  
 Toggle, J. Karitzky. No. 1,374,924; Apr. 19; v. 285; p. 402.  
 Toggle, J. Karitzky. No. 1,374,925; Apr. 19; v. 285; p. 402.  
 Toggle, Spring-. J. Karitzky. No. 1,374,926; Apr. 19; v. 285; p. 402.  
 Toggle, Spring-. H. W. Fleister. No. 1,374,950; Apr. 19; v. 285; p. 407.  
 Toggle, Spring-. D. R. Sherwood and J. Karitzky. No. 1,374,959; Apr. 19; v. 285; p. 408.  
 Toilet, D. S. Buck. No. 1,399,927; Dec. 13.  
 Toilet accessory. M. Cohn. No. 1,370,950; Mar. 8; v. 284; p. 272.  
 Toilet and lavatory, Combined. W. G. Bunker. No. 1,395,479; Nov. 1.  
 Toilet apparatus, Sanitary. C. W. Fisher. No. 1,376,926; May 3; v. 286; p. 104.  
 Toilet article. M. L. Grossman. No. 1,366,792; Jan. 25; v. 282; p. 662.  
 Toilet-article. P. McGuire. No. 1,367,489; Feb. 1; v. 283; p. 121.  
 Toilet article. W. H. Roystone. No. 1,388,204; Aug. 23; v. 289; p. 625.  
 Toilet article, Combination. V. J. Ault. No. 1,366,762; Jan. 25; v. 282; p. 656.  
 Toilet article, Combined. R. de Echevarria. No. 1,372,609; Mar. 22; v. 284; p. 711.  
 Toilet article, Folding combination. R. Y. Boyce. No. 1,398,533; Nov. 29.  
 Toilet-article package. A. Siris. No. 1,383,867; July 5; v. 288; p. 126.  
 Toilet articles. F. Chrobak. No. 1,397,403; Nov. 15.  
 Toilet articles, Holder for. J. Molnar. No. 1,399,305; Dec. 6.  
 Toilet-case. J. J. Schmerler. No. 1,386,806; Aug. 9; v. 289; p. 239.  
 Toilet-fixture connection. J. A. Johnston. No. 1,389,004; Aug. 30; v. 289; p. 838.  
 Toilet implement. C. W. Joerges. No. 1,370,818; Mar. 8; v. 284; p. 248.  
 Toilet-powder receptacle and brush. G. Cosmos. No. 1,380,884; June 7; v. 287; p. 107.  
 Toilet-seat cover. H. B. Courchene. No. 1,393,318; Nov. 29.  
 Toilets, Water-operated ventilator for. C. A. and G. E. Krantz. No. 1,381,710; June 14; v. 287; p. 315.  
 Toller, Automatic. T. F. Perkins. No. 1,394,760; Oct. 25.  
 Toller, Grain-. T. F. Perkins. No. 1,394,761; Oct. 25.  
 Tomatoes, Peeling. W. D. Bost and H. M. Miller. No. 1,384,379; July 12; v. 288; p. 281.  
 Tombstone. H. Tyree. No. 1,365,635; Jan. 11; v. 282; p. 350.  
 Tone-arm. J. W. Booth. No. 1,385,358; July 26; v. 288; p. 640.  
 Tone-arm and amplifier, Combined. V. Minelli. No. 1,395,053; Oct. 25.  
 Tone-chamber. F. F. Blandin. No. 1,373,943; Apr. 5; v. 285; p. 110.  
 Tone-guide for singers. M. A. L. Clark. No. 1,389,240; Aug. 30; v. 289; p. 885.  
 Tong, Back-up or go-around. H. Corrigan. No. 1,384,688; July 12; v. 288; p. 347.  
 Tongs. G. H. Casey. No. 1,366,244; Jan. 18; v. 282; p. 509.  
 Tongs. H. D. Deam. No. 1,376,323; Apr. 26; v. 285; p. 702.  
 Tongs. W. Hehmann. No. 1,370,814; Mar. 8; v. 284; p. 247.  
 Tongs, Breakout-. M. Belcher. No. 1,400,715; Dec. 20.  
 Tongs, Brick-. C. A. Messinger. No. 1,364,128; Jan. 4; v. 282; p. 16.  
 Tongs, Clothes-. M. Wenzel. No. 1,386,295; Aug. 2; v. 289; p. 66.  
 Tongs, Drawbench-. W. Lonsdale. No. 1,371,700; Mar. 15; v. 284; p. 481.  
 Tongs, Fireplace-. V. T. Truax. No. 1,370,860; Mar. 8; v. 284; p. 255.  
 Tongs, Ice-. J. G. Heidt. No. 1,401,777; Dec. 27.  
 Tongs, Lifting-. F. Richardson. No. 1,365,196; Jan. 11; v. 282; p. 265.  
 Tongs, Pipe-. R. D. Hill. No. 1,382,832; June 28; v. 287; p. 641.  
 Tongs, Pipe-. T. Thomas. No. 1,370,931; Mar. 8; v. 284; p. 268.  
 Tongs, Wafer-. F. B. Peterson. No. 1,374,522; Apr. 12; v. 285; p. 263.  
 Tongue-depressor. L. D. Jacoby. No. 1,396,933; Nov. 15.  
 Tonneau-panels, Channel structure for. J. Ledwinka. No. 1,398,971; Dec. 6.  
 Tonsil-remover. G. F. Richter. No. 1,375,177; Apr. 19; v. 285; p. 451.  
 Tonsil-remover. G. F. Richter. No. 1,375,178; Apr. 19; v. 285; p. 451.  
 Tonsil-snare. C. R. Storz. No. 1,366,971; Feb. 1; v. 283; p. 18.  
 Tonsillotome. J. Sklar. No. 1,394,867; Oct. 25.  
 Tonsillotome. H. H. Carstens. No. 1,397,677; Nov. 22.  
 Tool. B. Anheuser. No. 1,379,737; May 31; v. 286; p. 896.  
 Tool. B. F. Baird. No. 1,375,547; Apr. 19; v. 285; p. 522.  
 Tool. J. R. Benton. No. 1,383,064; June 28; v. 287; p. 685.  
 Tool. A. J. Burke. No. 1,387,234; Aug. 9; v. 289; p. 322.  
 Tool. S. A. Davern. No. 1,394,608; Oct. 25.  
 Tool. R. Fagan. No. 1,390,107; Sept. 6; v. 290; p. 111.  
 Tool. C. H. Fries. No. 1,375,088; Apr. 19; v. 285; p. 434.  
 Tool. A. J. Hager. No. 1,377,829; May 10; v. 286; p. 334.  
 Tool. F. H. Hilliard. No. 1,377,348; May 10; v. 286; p. 242.  
 Tool. G. W. Moad. No. 1,383,226; June 28; v. 287; p. 716.  
 Tool. L. A. Ruley and O. F. Osburn. No. 1,388,062; Aug. 16; v. 289; p. 540.  
 Tool. A. N. Trullench. No. 1,375,984; Apr. 26; v. 285; p. 637.  
 Tool. H. A. Wetzstein. No. 1,390,071; Sept. 6; v. 290; p. 104.  
 Tool. H. H. Whitehead. No. 1,366,987; Feb. 1; v. 283; p. 21.  
 Tool. W. Womack. No. 1,368,085; Feb. 8; v. 283; p. 202.  
 Tool, Adjustable. J. F. Semones. No. 1,385,477; July 26; v. 288; p. 665.  
 Tool, Adjusting flush-valve-seat-cutting. J. Matino. No. 1,388,585; Aug. 23; v. 289; p. 700.  
 Tool and head, Adjustable. A. H. Morris. No. 1,391,564; Sept. 20; v. 290; p. 559.  
 Tool-bag for linemen, Collapsible. E. F. Shipman. No. 1,374,960; Apr. 19; v. 285; p. 409.  
 Tool, Boiler-flue. C. M. Spangler. No. 1,391,862; Sept. 27; v. 290; p. 692.  
 Tool-carrier feed. J. H. Mansfield. No. 1,376,715; May 3; v. 286; p. 63.  
 Tool, Bead-making. F. W. Pfeiffer. No. 1,375,318; Apr. 19; v. 285; p. 478.  
 Tool, Boring-. G. R. Adams. No. 1,364,346; Jan. 4; v. 282; p. 58.  
 Tool-box. H. H. Jordan. No. 1,383,259; June 28; v. 287; p. 722.  
 Tool-box. O. B. Shaw and F. L. McKenna. No. 1,387,655; Aug. 16; v. 289; p. 460.  
 Tool-chest. F. Carr. No. 1,366,243; Jan. 18; v. 282; p. 509.  
 Tool, Combination-. J. M. Bardera. No. 1,398,996; Dec. 6.  
 Tool, Combination-. M. M. Berge. No. 1,364,829; Jan. 4; v. 282; p. 151.  
 Tool, Combination-. F. X. Freyder. No. 1,398,323; Nov. 29.  
 Tool, Combination-. H. B. Keiper. No. 1,377,202; May 10; v. 286; p. 213.  
 Tool, Combination-. G. K. Larrimore. No. 1,373,138; Mar. 29; v. 284; p. 857.  
 Tool, Combination-. G. C. Marten. No. 1,374,751; Apr. 12; v. 285; p. 306.  
 Tool, Combination-. J. W. Pearson. No. 1,377,920; May 10; v. 286; p. 352.  
 Tool, Combination-. W. L. Ray. No. 1,374,681; Apr. 12; v. 285; p. 293.  
 Tool, Combination. J. J. Schmidt. No. 1,387,316; Aug. 9; v. 289; p. 340.  
 Tool, Combination-. S. Shapiro. No. 1,399,665; Dec. 6.  
 Tool, Combination-. P. E. Threet. No. 1,390,400; Sept. 13; v. 290; p. 260.  
 Tool, Combination-. H. E. J. Wackwitz. No. 1,387,214; Aug. 9; v. 289; p. 319.  
 Tool, Combination foundry-. H. E. Wolfe. No. 1,391,814; Sept. 27; v. 290; p. 681.  
 Tool, Combination rounding-. J. P. Griffith. No. 1,365,683; Jan. 18; v. 282; p. 399.  
 Tool, Compound. W. and P. Caron. No. 1,365,658; Jan. 18; v. 282; p. 394.  
 Tool, Compound. P. S. Minges. No. 1,369,829; Mar. 1; v. 284; p. 14.  
 Tool, Convertible. A. K. Olsen. No. 1,369,262; Feb. 22; v. 283; p. 609.  
 Tool, Cutting-. J. E. Burns. No. 1,388,547; Aug. 23; v. 289; p. 693.  
 Tool, Cutting-. A. Jansson. No. 1,366,005; Jan. 18; v. 282; p. 463.  
 Tool, Cutting-. B. A. Stone. No. 1,368,070; Feb. 8; v. 283; p. 289.  
 Tool, Dental. W. A. Kelsey. No. 1,385,747; July 26; v. 288; p. 720.  
 Tool-dressing device. C. G. Olson. No. 1,381,493; June 14; v. 287; p. 273.  
 Tool-driving machine. H. C. Smith. No. 1,398,978; Dec. 6.  
 Tool, Edged. M. J. Udy and F. C. Nicholson. No. 1,383,176; June 28; v. 287; p. 706.  
 Tool, Fishing-. O. B. Dutton. No. 1,388,992; Aug. 30; v. 289; p. 836.  
 Tool, Garden-. A. P. Anderson. No. 1,364,825; Jan. 4; v. 282; p. 150.  
 Tool, Garden-. A. Miller. No. 1,385,089; July 19; v. 288; p. 510.  
 Tool-grinder. W. J. F. Boettcher. No. 1,386,088; Aug. 2; v. 289; p. 26.  
 Tool, Grinding-. H. McNicholas. No. 1,370,141; Mar. 1; v. 284; p. 73.  
 Tool, Hand-. W. A. Bernard. No. 1,385,516; July 26; v. 288; p. 673.  
 Tool, Hand-. F. M. Remsdell. No. 1,382,932; June 28; v. 287; p. 660.



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- Tool, Hand-. J. R. Ayotte. Nos. 1,395,887-8; Nov. 1.  
 Tool-handle. J. E. Burndahl. No. 1,384,887; July 19; v. 288; p. 468.  
 Tool-handle. J. P. Doman. No. 1,392,627; Oct. 4.  
 Tool-handle. M. Falos. No. 1,391,726; Sept. 27; v. 290; p. 665.  
 Tool-handle. L. S. Hood. No. 1,376,811; May 3; v. 286; p. 82.  
 Tool-handle. G. T. Johnson. No. 1,388,571; Aug. 23; v. 289; p. 697.  
 Tool-handle. C. W. Rieff. No. 1,397,783; Nov. 22.  
 Tool-handle. H. Rosenberg. No. 1,384,154; July 12; v. 288; p. 235.  
 Tool-handle. M. N. Silver. No. 1,366,030; Jan. 18; v. 282; p. 467.  
 Tool-handle. J. A. Turgeon. No. 1,375,069; Apr. 19; v. 285; p. 431.  
 Tool-handle-holding means. A. S. Vaughan. No. 1,399,172; Dec. 6.  
 Tool-handles, Reinforcing or stay bolt for. J. H. Bell. No. 1,374,713; Apr. 12; v. 285; p. 299.  
 Tool-holder. R. H. Banister. No. 1,387,339; Aug. 9; v. 289; p. 345.  
 Tool-holder. S. G. Betz. No. 1,387,343; Aug. 9; v. 289; p. 346.  
 Tool-holder. B. T. Carson. No. 1,382,413; June 21; v. 287; p. 507.  
 Tool-holder. B. T. Carson. No. 1,392,269; Sept. 27; v. 290; p. 774.  
 Tool-holder. C. J. Clark. No. 1,398,679; Nov. 29.  
 Tool-holder. W. Cockcroft. No. 1,368,119; Feb. 8; v. 283; p. 299.  
 Tool-holder. G. R. Couls. No. 1,397,796; Nov. 22.  
 Tool-holder. H. Curtin. No. 1,395,262; Nov. 1.  
 Tool-holder. M. H. Derringer. No. 1,381,457; June 14; v. 287; p. 267.  
 Tool-holder. J. J. Dolan, Sr. No. 1,379,539; May 24; v. 286; p. 785.  
 Tool-holder. G. W. Dover. No. 1,366,640; Jan. 25; v. 282; p. 632.  
 Tool-holder. I. Drowns. No. 1,375,785; Apr. 26; v. 285; p. 598.  
 Tool-holder. E. L. Fickett and V. Charushin. No. 1,391,375; Sept. 20; v. 290; p. 520.  
 Tool-holder. O. Gustafson. No. 1,380,317; May 31; v. 286; p. 1005.  
 Tool-holder. T. Hinton. No. 1,400,063; Dec. 13.  
 Tool-holder. G. F. Krieger. No. 1,387,782; Aug. 16; v. 289; p. 486.  
 Tool-holder. L. D. Luttmer. No. 1,384,669; July 12; v. 288; p. 343.  
 Tool-holder. R. Mamers. No. 1,371,799; Mar. 15; v. 284; p. 500.  
 Tool-holder. H. V. Morin. No. 1,395,859; Nov. 1.  
 Tool-holder. E. Ortwig. No. 1,387,862; Aug. 16; v. 289; p. 502.  
 Tool-holder. C. A. Simmons. No. 1,380,744; June 7; v. 287; p. 80.  
 Tool-holder. W. O. Wille. No. 1,387,672. Aug. 16; v. 289; p. 463.  
 Tool-holder, Adjustable. J. H. Smith. No. 1,378,290; May 17; v. 286; p. 474.  
 Tool-holder, Adjustable. F. Wermes. No. 1,373,926; Apr. 5; v. 285; p. 107.  
 Tool-holder, Adjustable offset. C. L. Hollingsworth. No. 1,379,866; May 31; v. 286; p. 920.  
 Tool-holder and cutter, Combined. F. O. Hoagland. No. 1,383,630; July 5; v. 288; p. 77.  
 Tool holder. Cutting-. A. C. Nielsen. No. 1,371,515; Mar. 15; v. 284; p. 445.  
 Tool-holder, Self-centering. W. W. Baker and F. W. Franklin. No. 1,376,791; May 3; v. 286; p. 77.  
 Tool holder. Turret-. F. Ekman. No. 1,392,128; Sept. 27; v. 290; p. 746.  
 Tool-holding device. G. H. Du Sell. No. 1,391,723; Sept. 27; v. 290; p. 664.  
 Tool, Inside-cutting. J. R. Aulenback. No. 1,377,109; May 3; v. 286; p. 139.  
 Tool, Jewel-setting. C. F. Baptist, Sr. No. 1,370,873. Mar. 8; v. 284; p. 258.  
 Tool-joint. R. F. Kreiter. No. 1,372,238; Mar. 22; v. 284; p. 640.  
 Tool-joint. A. H. Thomas. No. 1,386,210; Aug. 2; v. 289; p. 50.  
 Tool, Kitchen-. E. Verstraete. No. 1,364,332; Jan. 4; v. 282; p. 55.  
 Tool, Machine-. L. E. Jolls. No. 1,397,006; Nov. 15.  
 Tool-machines, especially for variable-working resistance, Driving of. A. Tetéleni. No. 1,369,853; Mar. 1; v. 284; p. 19.  
 Tool, Manicure-. A. E. Churchill. No. 1,364,075; Jan. 4; v. 282; p. 5.  
 Tool, Marking. B. Moss. No. 1,381,131; June 14; v. 287; p. 208.  
 Tool, Measuring-. M. Nowak. No. 1,367,423; Feb. 1; v. 283; p. 108.  
 Tool, Motor-rotation impact-. H. I. Stage. No. 1,390,834; Sept. 13; v. 290; p. 348.  
 Tool, Peach-pitting. S. J. Dunkley. No. 1,374,288; Apr. 12; v. 285; p. 217.  
 Tool, Portable. G. L. Kraber. No. 1,366,389; Jan. 25; v. 282; p. 581.  
 Tool-post. G. G. Porter. No. 1,396,461; Nov. 8.  
 Tool-post, Multiple lathe. J. W. Cunningham. No. 1,366,249; Jan. 18; v. 282; p. 510.  
 Tool-pouch and testing device, Combined. A. E. Sharkey. No. 1,387,189; Aug. 9; v. 289; p. 315.  
 Tool, Prick-punching. W. M. Brigham. No. 1,386,152; Aug. 2; v. 289; p. 38.  
 Tool, Putting-. C. Halaska, Jr. No. 1,390,126; Sept. 6; v. 290; p. 115.  
 Tool rest or support. E. S. Grass. No. 1,369,424; Feb. 22; v. 283; p. 640.  
 Tool, Rethreading-. D. S. Rhodes. No. 1,392,705; Oct. 4.  
 Tool, Rocker-arm. C. H. Newton. No. 1,366,923; Feb. 1; v. 283; p. 9.  
 Tool, Roughening or hand abrading. E. Peasley. No. 1,373,970; Apr. 5; v. 285; p. 116.  
 Tool, Sectional. F. C. Williams. No. 1,380,090; May 31; v. 286; p. 962.  
 Tool-sharpening gage. B. Klein. No. 1,374,582; Apr. 12; v. 285; p. 274.  
 Tool-slide for machine-tools. E. P. Bullard, Jr. No. 1,382,339; June 21; v. 287; p. 493.  
 Tool, Smoothing-. K. R. Peters. No. 1,374,604; Apr. 12; v. 285; p. 279.  
 Tool, Splicing-. G. W. Goodridge. No. 1,382,500; June 21; v. 287; p. 524.  
 Tool, Splicing-. G. W. Goodridge. No. 1,389,584; Sept. 6; v. 290; p. 5.  
 Tool, Spud-. J. T. Morrissey. No. 1,388,744; Aug. 23; v. 289; p. 731.  
 Tool-support. A. L. Kern. No. 1,386,629; Aug. 9; v. 289; p. 203.  
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 Tool-supporter. J. A. Van Sickle. No. 1,368,377; Feb. 15; v. 283; p. 397.  
 Tool, Tamping-. I. E. Clum. No. 1,376,137; Apr. 26; v. 285; p. 664.  
 Tool, Thumb-tack. G. and W. W. Gillespie. No. 1,369,420; Feb. 22; v. 283; p. 639.  
 Tool, Track-. O. L. Newsom. No. 1,365,265; Jan. 11; v. 282; p. 279.  
 Tool, Turn-up. C. W. Morris. No. 1,379,277; May 24; v. 286; p. 735.  
 Tool, Turning and beading. W. A. Findley. No. 1,381,406; June 14; v. 287; p. 258.  
 Tool, Valve-dressing. J. McCollum. No. 1,364,391; Jan. 4; v. 282; p. 66.  
 Tool, Valve-seat-dressing. I. J. Blair. No. 1,365,449; Jan. 11; v. 282; p. 315.  
 Tool, Watchmaker's. B. E. Eriksen. No. 1,364,625; Jan. 4; v. 282; p. 111.  
 Tool, Wood-splicing. P. A. Mastel. No. 1,367,883; Feb. 8; v. 283; p. 255.  
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 Tools and bars, Chuck for holding. C. H. Clare. No. 1,372,482; Mar. 22; v. 284; p. 687.  
 Tools, Ball-bearing handpiece for. C. A. Herman. No. 1,380,716; June 7; v. 287; p. 75.  
 Tools, Chip-catcher for. E. B. Almstrum. No. 1,396,909; Nov. 15.  
 Tools, Die for making bit-stock. E. T. McPherson. No. 1,366,815; Jan. 25; v. 282; p. 666.  
 Tools, Die for making bit-stock. E. T. McPherson. No. 1,366,816; Jan. 25; v. 282; p. 667.  
 Tools, Hammering-handle with interchangeable. J. W. Moshier. No. 1,384,330; July 12; v. 288; p. 271.  
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 Tools, Supplementary handle for. W. W. Booth. No. 1,391,452; Sept. 20; v. 290; p. 536.  
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 Tools, Universal handle for. J. W. Burroughs. No. 1,365,453; Jan. 11; v. 282; p. 315.  
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 Tooth and means of anchoring same into position in the mouth. Form of artificial. E. A. Hagaman. No. 1,392,830; June 28; v. 287; p. 641.  
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 Tooth, Artificial. N. Bloom. No. 1,365,962; Jan. 18; v. 282; p. 455.  
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- Tooth, Artificial. J. E. Marriott. No. 1,380,819; June 7; v. 287; p. 95.
- Tooth, Artificial. A. T. McGuinness. No. 1,382,304; June 21; v. 287; p. 486.
- Tooth, Artificial. R. J. Park. No. 1,386,798; Aug. 9; v. 289; p. 237.
- Tooth, Artificial. F. H. Russell. No. 1,376,644; May 3; v. 286; p. 50.
- Tooth, Artificial. F. H. Russell. No. 1,376,645; May 3; v. 286; p. 50.
- Tooth, Artificial. A. H. Sibley. No. 1,396,071; Nov. 8.
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- Tooth, Bridge. L. H. Sprinkle. No. 1,384,869; July 19; v. 288; p. 464.
- Tooth-cleaner, Rotary. H. E. Frame. No. 1,365,678; Jan. 18; v. 282; p. 398.
- Tooth-cleaning device. E. Loewenherz. No. 1,366,092; Jan. 18; v. 282; p. 479.
- Tooth, Crown. J. L. Williams. No. 1,397,067; Nov. 15.
- Tooth, crown, bridge, and the like. I. Masel. No. 1,372,080; Mar. 22; v. 284; p. 610.
- Tooth cutter-head and making same, Inserted. W. B. Huther. No. 1,376,438; May 3; v. 286; p. 12.
- Tooth, Diatomic or pinless. J. B. Foster. No. 1,386,463; Aug. 2; v. 289; p. 97.
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- Toothbrush. T. Harrison. No. 1,367,385; Feb. 1; v. 283; p. 100.
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- Toothbrush. S. Segal. No. 1,382,681; June 28; v. 287; p. 612.
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- Toothbrush and paste-container, Combined. A. Widmaier. No. 1,385,767; July 26; v. 288; p. 724.
- Toothbrush-container. E. M. Peters and P. Villardo. No. 1,380,246; May 31; v. 286; p. 991.
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- Toothbrush-holder. C. B. Baker. No. 1,397,350; Nov. 15.
- Toothbrush-holder. B. R. Morrison. No. 1,369,460; Feb. 22; v. 283; p. 646.
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- Toothbrush receptacle and holder. A. G. Sulak. No. 1,375,865; Apr. 26; v. 285; p. 614.
- Toothbrush, Rotary. C. H. Stone. No. 1,388,074; Aug. 16; v. 289; p. 542.
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- Toothpick-dispensing device. J. E. Kenkel. No. 1,371,173; Mar. 8; v. 284; p. 314.
- Toothpick-holder. G. W. Walker. No. 1,385,288; July 19; v. 288; p. 550.
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- Toothed wheel. E. Brown. No. 1,383,266; June 28; v. 287; p. 723.
- Top, Aero spinning. W. A. Krause. No. 1,366,736; Jan. 25; v. 282; p. 650.
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- Top, Spinning. F. L. Lindstrom. No. 1,368,040; Feb. 8; v. 283; p. 283.
- Topping machine, Vegetable. F. P. Chermak. No. 1,364,713; Jan. 4; v. 282; p. 128.
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- Torch-adjuster. J. L. Anderson. No. 1,371,510; Mar. 15; v. 284; p. 450.
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- Torch, Blow. J. B. Anderson and C. H. Allen. No. 1,364,972; Jan. 11; v. 282; p. 223.
- Torch, Blow. E. J. Good. No. 1,368,625; Feb. 15; v. 283; p. 446.
- Torch, Controllable. C. Coen. No. 1,377,875; May 10; v. 286; p. 343.
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- Torch, Cutting and welding. C. F. Hummel. No. 1,390,440; Sept. 13; v. 290; p. 268.
- Torch, Cutting and welding. J. S. Reynolds. No. 1,369,545; Feb. 22; v. 283; p. 663.
- Torch, Flashlight. L. L. Schacht. No. 1,389,702; Sept. 6; v. 290; p. 28.
- Torch fuse-lighter. E. P. Aurand. No. 1,388,502; Aug. 23; v. 289; p. 685.
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- Torch, Oil-burning. C. B. Jahnke. No. 1,377,687; May 10; v. 286; p. 305.
- Torch, Oxyacetylene welding. F. W. Smith. No. 1,365,796; Jan. 18; v. 282; p. 422.
- Torch, Oxyhydrogen. A. H. Peir, A. L. Peterson, and C. Molas. No. 1,365,600; Jan. 11; v. 282; p. 344.
- Torch, Painter's blow. W. Gretsinger. No. 1,380,140; May 31; v. 286; p. 972.
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- Torch, Welding. W. E. Amberg. No. 1,373,043; Mar. 29; v. 284; p. 839.
- Torch, Welding and cutting. W. B. Perdue. No. 1,373,829; Apr. 5; v. 285; p. 88.
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- Toric articles, Packaging. W. M. Wheildon and E. H. Angier. No. 1,366,547; Jan. 25; v. 282; p. 613.
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- Torpedo. E. S. R. Brandt. No. 1,394,271; Oct. 18.
- Torpedo. J. S. Currier. No. 1,394,284; Oct. 18.
- Torpedo. J. A. Flint. No. 1,389,190; Aug. 30; v. 289; p. 875.
- Torpedo. G. B. Jackson. No. 1,373,246; Mar. 29; v. 284; p. 879.
- Torpedo. H. P. Jensen-Beirlund. No. 1,375,157; Apr. 19; v. 285; p. 447.
- Torpedo, Aerial. H. Centerwall. No. 1,388,932; Aug. 30; v. 289; p. 823.
- Torpedo, Aerial. L. Giles and S. H. Woodruff. No. 1,384,559; July 12; v. 288; p. 319.
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- Torpedo apparatus, Well-shooting. A. G. Stoops. No. 1,382,395; June 21; v. 287; p. 504.
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- Torpedo-boat, Submarine. J. Barraja-Frauenfelder. No. 1,393,601; Oct. 11.
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- Torpedo for transporting and firing explosives. W. R. Bowker. No. 1,385,109; July 19; v. 288; p. 515.
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- Torpedo-placing device. E. R. Davenport. No. 1,383,535; July 5; v. 288; p. 57.
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- Torpedo, Railway signal. F. Dutcher. No. 1,385,314; July 19; v. 288; p. 555.



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 Towel-holder. C. E. Erickson. No. 1,364,190; Jan. 4; v. 282; p. 28.  
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 Toy. S. P. Buchanan. No. 1,373,168; Mar. 29; v. 284; p. 864.  
 Toy. F. H. Callahan. No. 1,366,115; Jan. 18; v. 282; p. 483.  
 Toy. E. J. Cedarberg. No. 1,364,711; Jan. 4; v. 282; p. 712.  
 Toy. H. Cederblad. No. 1,378,765; May 17; v. 286; p. 565.  
 Toy. N. Chapetaine. (Reissue.) No. 15,148; July 12; v. 288; p. 356.  
 Toy. W. Choinski. No. 1,388,240; Aug. 23; v. 289; p. 632.  
 Toy. J. F. Crist. No. 1,375,677; Apr. 26; v. 285; p. 579.  
 Toy. A. V. Da Costa. No. 1,394,669; Oct. 25.  
 Toy. W. L. De Haven. No. 1,400,942; Dec. 20.  
 Toy. F. L. Dorsk. No. 1,365,467; Jan. 11; v. 282; p. 318.  
 Toy. H. F. Dunning. No. 1,393,512; Oct. 11.  
 Toy. K. Edison. No. 1,376,749; May 3; v. 286; p. 70.  
 Toy. C. H. Edwards and G. W. Emery. No. 1,364,984; Jan. 11; v. 282; p. 225.  
 Toy. E. Erickson. No. 1,395,565; Nov. 1.  
 Toy. A. F. Fisher. No. 1,369,093; Feb. 22; v. 283; p. 576.  
 Toy. F. L. Fithian. No. 1,368,917; Feb. 15; v. 283; p. 503.  
 Toy. F. Fowler. No. 1,383,795; July 5; v. 288; p. 112.  
 Toy. G. C. Gillespie. No. 1,370,303; Mar. 1; v. 284; p. 104.  
 Toy. A. L. Girard. No. 1,378,022; May 17; v. 286; p. 423.  
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 Toy. R. C. Hargreaves. No. 1,394,008; Oct. 18.  
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 Toy. I. Maisano. No. 1,364,395; Jan. 4; v. 282; p. 67.  
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 Toy. D. F. Morgan. No. 1,385,883; July 26; v. 288; p. 748.  
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 Toy. W. H. Ogden. No. 1,364,512; Jan. 4; v. 282; p. 91.  
 Toy. K. Ono. No. 1,364,513; Jan. 4; v. 282; p. 91.  
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 Toy. W. A. Richman. No. 1,388,059; Aug. 16; v. 289; p. 539.  
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 Toy. E. G. Ruehl. No. 1,390,816; Sept. 13; v. 290; p. 344.  
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- Toy aeroplane or glider. M. R. McInnis. No. 1,400,224; Dec. 13.
- Toy-aeroplane projectile. R. L. Parrish. No. 1,375,971; Apr. 26; v. 285; p. 635.
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- Toy airplane. C. H. Grant. No. 1,371,162; Mar. 8; v. 284; p. 312.
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- Toy, Automatic. J. K. Kahl. No. 1,390,136; Sept. 6; v. 290; p. 116.
- Toy, Automatically-reversible mechanical. W. H. Huth. No. 1,386,258; Aug. 2; v. 289; p. 59.
- Toy, Automatically-reversible mechanical. W. H. Huth. No. 1,388,113; Aug. 16; v. 289; p. 550.
- Toy automobile. C. J. Sladek. No. 1,399,667; Dec. 6.
- Toy, Balancing. C. Mathieu. No. 1,384,476; July 12; v. 288; p. 301.
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- Toy building-block. W. S. Shields. No. 1,385,155; July 19; v. 288; p. 524.
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- Toy cart. J. H. McCarthy and H. E. Graff. No. 1,387,287; Aug. 9; v. 289; p. 332.
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- Toy, Dancing. R. F. Calhoun. No. 1,391,994; Sept. 17; v. 290; p. 720.
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- Toy dancing figure. A. H. Allen. No. 1,373,932; Apr. 5; v. 285; p. 108.
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- Trace-carrier. T. C. Tharalson. No. 1,375,068; Apr. 19; v. 285; p. 430.
- Track. G. H. Peifer. No. 1,389,781; Sept. 6; v. 290; p. 44.
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- Track-circuit system. W. W. Macfarlane. No. 1,383,319; July 5; v. 288; p. 12.
- Track-circuit system. W. W. Macfarlane. No. 1,383,320; July 5; v. 288; p. 13.
- Track-clamp. J. Whitaker. No. 1,400,396; Dec. 13.
- Track-clearing equipment. L. P. Chicoine. No. 1,396,355; Nov. 8.
- Track construction. W. A. Braden. No. 1,398,932; Nov. 29.
- Track-drilling machine. E. A. Everett. No. 1,391,725; Sept. 27; v. 290; p. 664.
- Track-grinding machine. H. Perazzoli. No. 1,389,528; Aug. 30; v. 289; p. 942.
- Track instrument. W. J. Cook. No. 1,372,281; Mar. 22; v. 284; p. 649.
- Track-joint. W. E. Click. No. 1,389,545; Aug. 30; v. 289; p. 946.
- Track-layer. J. Lopitsky. No. 1,396,765; Nov. 15.
- Track-liner bar. L. P. Chicoine. No. 1,387,688; Aug. 16; v. 289; p. 466.
- Track on driving headings, Process and device for shortening the time used in removing the debris of the. A. Huguenin. No. 1,386,622; Aug. 9; v. 289; p. 201.
- Track, Portable. S. Faso. No. 1,364,924; Jan. 11; v. 282; p. 213.
- Track-rail, Compound. W. H. Pride. No. 1,389,217; Aug. 30; v. 289; p. 880.
- Track-roadbed and forming same. S. G. Howe. No. 1,392,500; Oct. 4.
- Track-sander. H. M. Shade. No. 1,392,230; Sept. 27; v. 290; p. 766.
- Track-sander. J. H. Watters. No. 1,396,307; Nov. 8.
- Track scraper or cleaner. F. N. Root. No. 1,379,363; May 24; v. 286; p. 752.
- Track-shcave. H. Schaaake. No. 1,370,561; Mar. 8; v. 284; p. 198.
- Track-signal. A. L. Currie. No. 1,371,227; Mar. 15; v. 284; p. 387.
- Track-spike. L. P. Chicoine. No. 1,387,689; Aug. 16; v. 289; p. 466.
- Track supporting and fastening means. W. O. Batts. No. 1,382,458; June 21; v. 287; p. 516.
- Track suspension means and load-carriage, Overhead. W. A. Brownlee. No. 1,391,993; Sept. 27; v. 290; p. 719.
- Track-switch. G. B. Gomia. No. 1,380,099; May 31; v. 286; p. 964.
- Track-switch, Automatic electrically controlled. R. R. Scoggan. No. 1,395,872; Nov. 1.
- Track-trip, Electrically-actuated. C. A. Brooks. No. 1,373,595; Apr. 5; v. 285; p. 42.
- Track, Vehicle road-. J. R. Belknap. No. 1,399,043; Dec. 6.
- Track-weeder. J. B. Franklin. No. 1,394,193; Oct. 18.
- Tracks, Support for conveyer-. G. Ritchie, Jr. No. 1,366,944; Feb. 1; v. 283; p. 13.
- Tracks, Support for endless. J. H. Thompson. No. 1,390,473; Sept. 13; v. 290; p. 274.
- Tracking device. C. L. Emmons. No. 1,387,371; Aug. 9; v. 289; p. 352.
- Tracking device, Automatic. W. Dupré. No. 1,383,390; July 5; v. 288; p. 28.
- Trackwalker's kit. D. McChesnie. No. 1,397,644; Nov. 22.
- Trackway. N. A. Newdick. No. 1,370,905; Mar. 8; v. 284; p. 263.
- Traction device. P. W. Deuel. No. 1,391,721; Sept. 27; v. 290; p. 664.
- Traction device. H. E. Houston. No. 1,383,948; July 5; v. 288; p. 143.
- Traction device. W. H. McLaughlin. No. 1,391,262; Sept. 20; v. 290; p. 498.
- Traction device. W. H. McLaughlin. No. 1,391,263; Sept. 20; v. 290; p. 498.
- Traction device. C. Swan. No. 1,372,787; Mar. 29; v. 284; p. 787.
- Traction-drive. H. N. Bingham. No. 1,375,273; Apr. 19; v. 285; p. 469.
- Traction-engine. G. Amonsens. No. 1,372,635; Mar. 22; v. 284; p. 716.
- Traction-engine. A. D. Cole. No. 1,372,338; Mar. 22; v. 284; p. 660.
- Traction-engine. J. C. French. No. 1,393,519; Oct. 11.
- Traction-engine. M. H. Lang. No. 1,392,421; Oct. 4.
- Traction-engine. F. Moon. No. 1,370,756; Mar. 8; v. 284; p. 236.
- Traction-engine control. W. Turnbull. No. 1,381,769; June 14; v. 287; p. 327.
- Traction-engine mechanism. W. Turnbull. No. 1,395,019; Oct. 25.
- Traction-lug. J. A. Bentz. No. 1,400,514; Dec. 20.
- Traction-lug. W. Levy and M. Cortese. No. 1,369,623; Feb. 22; v. 283; p. 679.
- Traction-machine. F. G. Lewis. No. 1,400,690; Dec. 20.
- Traction-machine. J. Mader. No. 1,401,625; Dec. 27.
- Traction-machine. G. T. Strite. No. 1,393,462; Oct. 11.
- Traction-mat. G. P. Bauer. No. 1,375,666; Apr. 26; v. 285; p. 577.



- Traction mechanism. J. M. Worth. No. 1,376,851; May 3; v. 286; p. 90.
- Traction mechanism. J. M. Worth. No. 1,390,324; Sept. 13; v. 290; p. 245.
- Traction-motor. G. Yates. No. 1,374,708; Apr. 12; v. 285; p. 298.
- Traction-plate. W. C. Mason. No. 1,380,574; June 7; v. 287; p. 47.
- Traction-shoe. J. Messner. No. 1,395,134; Oct. 25.
- Traction-support. B. C. Gentry. No. 1,401,689; Dec. 27.
- Traction system. T. J. Fell. No. 1,368,913; Feb. 15; v. 283; p. 502.
- Traction tread. E. Erik. No. 1,379,336; May 24; v. 286; p. 747.
- Traction-tread, Detachable. P. E. Gero. No. 1,375,584; Apr. 19; v. 285; p. 528.
- Traction-wheel. Y. A. Boker. No. 1,376,394; May 3; v. 286; p. 3.
- Traction-wheel. J. J. Campodonico. No. 1,370,409; Mar. 1; v. 284; p. 124.
- Traction-wheel. J. W. Cottrell. No. 1,383,078; June 28; v. 287; p. 588.
- Traction-wheel. W. N. Florence. No. 1,393,210; Oct. 11.
- Traction-wheel. R. E. Hamilton. (Reissue.) No. 15,077; Apr. 5; v. 285; p. 153.
- Traction-wheel. E. E. Hans. No. 1,380,474; June 7; v. 287; p. 29.
- Traction-wheel. R. W. Jamieson. No. 1,372,142; Mar. 22; v. 284; p. 621.
- Traction-wheel. E. A. Johnston. No. 1,395,422; Nov. 1.
- Traction-wheel. H. W. Kardell. No. 1,385,455; July 26; v. 288; p. 660.
- Traction-wheel. L. H. Noah. No. 1,376,896; May 3; v. 286; p. 99.
- Traction-wheel. H. M. Plaisted. No. 1,368,049; Feb. 8; v. 283; p. 285.
- Traction-wheel. G. H. Scanlan. No. 1,389,460; Aug. 30; v. 289; p. 929.
- Traction-wheel. E. J. Solomon. No. 1,377,289; May 10; v. 286; p. 230.
- Traction-wheel. F. B. Stork. No. 1,373,536; Apr. 5; v. 285; p. 31.
- Traction-wheel. W. J. Tekippi. No. 1,372,633; Mar. 22; v. 284; p. 716.
- Traction-wheel. J. G. Vincent. No. 1,384,170; July 12; v. 288; p. 238.
- Traction-wheel cleat mechanism. C. L. Pennell. No. 1,373,203; Mar. 29; v. 284; p. 871.
- Traction-wheel lug. H. B. Sperry. No. 1,395,367; Nov. 1.
- Traction-wheel. Lug-equipped. G. C. Plummer. No. 1,394,685; Oct. 25.
- Traction-wheel. Resilient. J. Baemule. No. 1,391,445; Sept. 20; v. 290; p. 535.
- Traction-wheel. Transmission. E. J. Megow, H. O. Day, and R. E. Gehan. No. 1,369,042; Feb. 22; v. 283; p. 566.
- Traction-wheel. Transmission. H. O. Day. No. 1,372,867; Mar. 29; v. 284; p. 804.
- Traction-wheel. Transmitting. H. O. Day. No. 1,372,866; Mar. 29; v. 284; p. 803.
- Tractive lug. D. R. Richie. No. 1,395,997; Nov. 1.
- Tractor. V. F. Aeri. No. 1,372,386; Mar. 22; v. 284; p. 669.
- Tractor. C. J. Allen. No. 1,373,852; Apr. 5; v. 285; p. 92.
- Tractor. C. J. Allen. No. 1,387,225; Aug. 9; v. 289; p. 321.
- Tractor. C. J. Allen. No. 1,391,929; Sept. 27; v. 290; p. 705.
- Tractor. H. C. Baines. No. 1,389,851; Sept. 6; v. 290; p. 59.
- Tractor. J. Barletta. No. 1,385,108; July 19; v. 288; p. 514.
- Tractor. W. L. Barthelemy. No. 1,378,002; May 17; v. 286; p. 419.
- Tractor. H. H. Bates. No. 1,369,316; Feb. 22; v. 283; p. 618.
- Tractor. L. L. Broder. No. 1,369,778; Mar. 1; v. 284; p. 5.
- Tractor. H. W. Burton. No. 1,390,880; Sept. 13; v. 290; p. 357.
- Tractor. A. Carpenter. No. 1,371,859; Mar. 15; v. 284; p. 511.
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- Tractor. D. P. Davies. No. 1,388,410; Aug. 23; v. 289; p. 667.
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- Tractor. L. L. Dubois. No. 1,398,683; Nov. 29.
- Tractor. S. R. Du Brie. No. 1,385,249; July 19; v. 288; p. 542.
- Tractor. J. Eskelin. No. 1,370,297; Mar. 1; v. 284; p. 103.
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- Tractor. J. B. Foote. No. 1,382,279; June 21; v. 287; p. 482.
- Tractor. H. S. Groce. No. 1,368,795; Feb. 15; v. 283; p. 476.
- Tractor. W. B. Hall and T. Merrill. No. 1,387,708; Aug. 16; v. 289; p. 470.
- Tractor. H. A. Harrah. No. 1,384,951; July 19; v. 288; p. 481.
- Tractor. H. A. Harrah. No. 1,384,952; July 19; v. 288; p. 481.
- Tractor. P. R. Hawthorne. No. 1,396,956; Nov. 15.
- Tractor. J. O. Heinze. No. 1,369,923; Mar. 1; v. 284; p. 32.
- Tractor. J. O. Heinze. No. 1,393,780; Oct. 18.
- Tractor. F. J. Hicks. No. 1,367,317; Feb. 1; v. 283; p. 86.
- Tractor. R. P. Hicks. No. 1,368,433; Feb. 15; v. 283; p. 408.
- Tractor. J. O. Hogg. No. 1,370,538; Mar. 8; v. 284; p. 193.
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- Tractor. W. H. Kemper. No. 1,364,767; Jan. 4; v. 282; p. 139.
- Tractor. A. L. Kins. No. 1,388,578; Aug. 23; v. 289; p. 699.
- Tractor. L. J. Kline. No. 1,391,779; Sept. 27; v. 290; p. 674.
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- Tractor. J. M. Kroyer. No. 1,400,684; Dec. 20.
- Tractor. J. L. Lake and F. D. McMahon. No. 1,394,098; Oct. 18.
- Tractor. J. W. Lambert. No. 1,372,756; Mar. 29; v. 284; p. 781.
- Tractor. J. E. Leavitt. No. 1,386,064; Aug. 2; v. 289; p. 21.
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- Tractor. H. Meyer. No. 1,399,639; Dec. 6.
- Tractor. T. A. Milutin. No. 1,368,279; Feb. 15; v. 283; p. 378.
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- Tractor. L. F. Nielsen. No. 1,384,968; July 19; v. 288; p. 484.
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- Tractor. G. H. Nobbs. No. 1,366,019; Jan. 18; v. 282; p. 465.
- Tractor. G. H. Nobbs. No. 1,366,020; Jan. 18; v. 282; p. 466.
- Tractor. R. E. Olds. No. 1,368,283; Feb. 15; v. 283; p. 379.
- Tractor. F. C. Olin. No. 1,366,413; Jan. 25; v. 282; p. 585.
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- Tractor. H. Partridge. No. 1,383,563; July 5; v. 288; p. 63.
- Tractor. W. L. Pope. No. 1,397,015; Nov. 15.
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- Tractor. F. A. Putnam. No. 1,389,010; Aug. 30; v. 289; p. 840.
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- Tractor. C. J. White. No. 1,374,049; Apr. 5; v. 285; p. 130.
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- Tractor, Farm-. J. M. Meyers. No. 1,401,629; Dec. 27.
- Tractor-fender. G. Wenzelmann. No. 1,375,193; Apr. 19; v. 285; p. 454.
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- Tractor, Four-wheel-drive. F. A. Mattson. No. 1,377,497; May 10; v. 286; p. 271.
- Tractor-frame suspension. E. E. Wickersham. No. 1,395,025; Oct. 25.
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- Tractor-guidle. A. J. Edgar. No. 1,376,412; May 8; v. 286; p. 7.
- Tractor-guide. W. Oldendorf. No. 1,388,057; Aug. 16; v. 289; p. 539.
- Tractor-guide, Automatic. F. L. Zybach. No. 1,390,419; Sept. 13; v. 290; p. 264.
- Tractor-guiding mechanism. E. S. Dobson. No. 1,364,725; Jan. 4; v. 282; p. 133.
- Tractor having two pairs of driving-wheels. E. Schneider. No. 1,391,011; Sept. 20; v. 290; p. 446.
- Tractor-hitch. F. R. Brookman. No. 1,368,603; Feb. 15; v. 283; p. 442.
- Tractor-hitch. W. L. Canniff. No. 1,396,927; Nov. 15.
- Tractor-hitch. C. Christiansen and E. Nordling. No. 1,382,062; June 21; v. 287; p. 441.
- Tractor-hitch. H. Ferguson. No. 1,379,399; May 24; v. 286; p. 758.
- Tractor-hitch. A. E. Johnson. No. 1,378,793; May 17; v. 286; p. 571.
- Tractor-hitch. J. K. Miller. No. 1,379,874; May 31; v. 286; p. 921.
- Tractor-hitch. F. A. Sieverling. No. 1,370,849; Mar. 8; v. 284; p. 253.
- Tractor-hitch. F. A. Sieverling. No. 1,370,850; Mar. 8; v. 284; p. 253.
- Tractor-hitch. C. A. and E. B. Wise. No. 1,392,864; Oct. 4.
- Tractor, Ice-. J. H. Riley. No. 1,391,500; Sept. 20; v. 290; p. 547.
- Tractor lawn-cutter. W. E. Voges. No. 1,383,178; June 28; v. 287; p. 707.
- Tractor, Line-controlled. L. S. Woodhull. No. 1,400,494; Dec. 13.
- Tractor-link. C. Rorabeck. No. 1,396,285; Nov. 8.
- Tractor-lug. D. S. Wolverton. No. 1,392,100; Sept. 27; v. 290; p. 740.
- Tractor, Motor-. J. and C. J. Bamford. No. 1,384,986; July 19; v. 288; p. 489.
- Tractor, Motor-. J. Coney. No. 1,379,901; May 31; v. 286; p. 926.
- Tractor, Multipedal. J. C. French. No. 1,388,637; Aug. 23; v. 289; p. 710.
- Tractor of the track-laying type. B. S. Pfeiffer. No. 1,366,486; Jan. 25; v. 282; p. 600.
- Tractor, Perambulating. P. A. Rasmussen. No. 1,382,854; June 28; v. 287; p. 645.
- Tractor-platform. W. J. Bernard. No. 1,394,883; Oct. 25.
- Tractor-plow. B. E. Reed, Marcus Hook, and J. E. Clippinger. No. 1,369,469; Feb. 22; v. 283; p. 648.
- Tractor, Plowing-. C. Cunningham. No. 1,385,668; July 26; v. 288; p. 407.
- Tractor push-rake. C. M. Borland. No. 1,383,184; June 28; v. 287; p. 708.
- Tractor, Roller-. A. J. Selter. No. 1,375,185; Apr. 19; v. 285; p. 453.
- Tractor safety device. A. Guignard and F. Rosiger. No. 1,399,552; Dec. 6.
- Tractor safety device. T. A. Milutin. No. 1,377,362; May 10; v. 286; p. 245.
- Tractors, Safety device for. R. D. Jeffries. No. 1,384,957; July 19; v. 288; p. 482.
- Tractor-seat. S. J. Coughran. No. 1,385,521; July 26; v. 288; p. 674.
- Tractor, Self-laying-track. E. E. Wickersham. No. 1,365,431; Jan. 11; v. 282; p. 311.
- Tractor steering-gear. J. Mader. No. 1,398,302; Nov. 29.
- Tractor-steering-gear lock. J. G. Wehrle and J. O. Ruble. No. 1,373,039; Mar. 29; v. 284; p. 838.
- Tractor steering-handles, Support for. J. Mader. No. 1,398,301; Nov. 29.
- Tractor steering-hitch. L. A. Dellett and T. E. Gough. No. 1,372,677; Mar. 29; v. 284; p. 765.
- Tractor structure. W. G. Howe. No. 1,400,218; Dec. 13.
- Tractor structure. J. H. Sissel. No. 1,401,287; Dec. 27.
- Tractor track-chain. F. Moon. No. 1,370,757; Mar. 8; v. 284; p. 236.
- Tractor, Track-laying. C. L. Best. No. 1,395,029; Oct. 25.
- Tractor, Track-laying. R. H. White. No. 1,387,086; Aug. 9; v. 289; p. 296.
- Tractor, Track-laying. R. H. White. No. 1,399,370; Dec. 6.
- Tractor transmission. S. Clifton. No. 1,392,865; Oct. 4.
- Tractor transmission. J. J. Compodonico. No. 1,370,408; Mar. 1; v. 284; p. 124.
- Tractor transmission. E. F. Norelius. No. 1,395,004; Oct. 25.
- Tractor transmission mechanism. G. I. Gargett. No. 1,400,048; Dec. 13.
- Tractor-tread. A. L. Berthelsen. No. 1,381,857; June 14; v. 287; p. 343.
- Tractor-tread. R. P. Hicks. No. 1,392,417; Oct. 4.
- Tractor tread-shoe. J. D. Park. No. 1,375,315; Apr. 19; v. 285; p. 478.
- Tractor-treads, Grouser for. F. H. Meyer. No. 1,392,693; Oct. 4.
- Tractor-truck. A. G. and A. Ronning. No. 1,393,972; Oct. 18.
- Tractor-wheel. S. T. Allen. No. 1,368,535; Feb. 15; v. 283; p. 429.
- Tractor-wheel. G. L. Banks. No. 1,382,815; June 28; v. 287; p. 638.
- Tractor-wheel. R. W. A. Brewer. No. 1,367,943; Feb. 8; v. 283; p. 265.
- Tractor-wheel. W. G. Fisher. No. 1,365,973; Jan. 18; v. 282; p. 457.
- Tractor-wheel. E. Goldberger. No. 1,382,597; June 21; v. 287; p. 543.
- Tractor-wheel. A. C. Johnson. No. 1,389,875; Sept. 6; v. 290; p. 63.
- Tractor-wheel. R. R. Miller. No. 1,373,905; Apr. 5; v. 285; p. 102.
- Tractor-wheel. L. E. Slauson. No. 1,393,707-8; Oct. 11.
- Tractor-wheel. G. Walther. No. 1,393,927; Oct. 18.
- Tractor-wheel. E. H. Whiting. No. 1,388,679; Aug. 23; v. 289; p. 718.
- Tractor wheel and gear, Self-cleaning. S. Clifton. No. 1,392,866; Oct. 4.
- Tractor wheel and lug. O. E. Zahn. No. 1,381,389; June 14; v. 287; p. 254.
- Tractor-wheel attachment. E. L. Polansky. No. 1,389,269; Aug. 30; v. 289; p. 891.
- Tractor-wheel cleat. J. M. Kroyer. No. 1,395,432; Nov. 1.
- Tractor-wheels, Attachment for. E. H. Chadderdon. No. 1,374,429; Apr. 12; v. 285; p. 244.
- Tractor-wheels, Cleat for. W. R. Barbour. No. 1,375,665; Apr. 26; v. 285; p. 577.



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- Tractor-wheels, Lug-shield for. A. C. Aikin. No. 1,377,794; May 10; v. 286; p. 327.
- Tractor-wheels, Protective device for. E. Schmid. No. 1,380,421; June 7; v. 287; p. 18.
- Tractor-wheels, Resistance appendage for. W. J. Jones. No. 1,384,068; July 12; v. 288; p. 217.
- Tractor-wheels, Tread for. H. B. Turner. No. 1,395,237; Oct. 25.
- Tractor with propulsive levers, Motor-. N. Mauger. No. 1,376,717; May 3; v. 286; p. 33.
- Tractor, Worm-driven four-wheel-drive. A. Stewart. No. 1,398,578; Nov. 29.
- Tractors and other vehicles, Propelling-wheel for. H. G. Stone. No. 1,399,413; Dec. 6.
- Tractors and the like, Four-wheel drive mechanism for. C. A. Slocum. No. 1,364,817; Jan. 4; v. 282; p. 148.
- Tractors, Attachment for. F. E. Mekan. No. 1,383,225; June 28; v. 287; p. 716.
- Tractors, Automatic clutch throw-out for. E. M. Heylman. No. 1,378,954; May 24; v. 286; p. 674.
- Tractors, Automatic safety attachment for. T. A. Milutin. No. 1,368,280; Feb. 15; v. 283; p. 378.
- Tractors, Automatic steering and control mechanism for. R. Whipple. (Reissue.) No. 15,214; Oct. 25.
- Tractors, Belt-guide for. M. B. Morgan. No. 1,394,106; Oct. 18.
- Tractors, Body construction for. W. C. Matteson. No. 1,379,710; May 31; v. 286; p. 891.
- Tractors, Bull-gear dust-shield for. J. L. Goodwin. No. 1,384,189; July 12; v. 288; p. 242.
- Tractors, Centrifugal governor for Fordson. G. E. Canfield. No. 1,393,984; Oct. 11.
- Tractors, Clutch-pedal attachment for. E. R. Pusard. No. 1,400,981; Dec. 20.
- Tractors, Clutch-releasing mechanism for. D. L. Cox. No. 1,382,478; June 21; v. 287; p. 520.
- Tractors, Control apparatus for. J. Meyer. No. 1,394,209; Oct. 18.
- Tractors, Cranking device for. L. Brown. No. 1,386,837; Aug. 9; v. 289; p. 245.
- Tractors, Cultivator attachment for. O. K. Brown. No. 1,378,994; May 24; v. 286; p. 681.
- Tractors, Detachable, mud-shoes for. M. A. Greene. No. 1,382,078; June 21; v. 287; p. 444.
- Tractors, Detachable resilient tread for continuous belt. O. I. Straub. No. 1,370,379; Mar. 1; v. 284; p. 118.
- Tractors, Device for guiding. E. E. Pyle. No. 1,387,556; Aug. 16; v. 289; p. 440.
- Tractors, Device for preventing rearward tilting of. A. E. Blackburn. No. 1,372,396; Mar. 22; v. 284; p. 671.
- Tractors, Draft appliance for. F. H. Gerdeman. No. 1,379,769; May 31; v. 286; p. 901.
- Tractors, Drawbar for. J. J. Bukolt. No. 1,378,005; May 17; v. 286; p. 420.
- Tractors, Drawbar for. H. E. Carner. No. 1,398,416; Nov. 29.
- Tractors, Driving and steering mechanism for. A. O. Hignbotham. No. 1,368,435; Feb. 15; v. 283; p. 409.
- Tractors, Equalizer-bar for chain-track. C. A. Whitnall. No. 1,395,021; Oct. 25.
- Tractors, Ground-gripping device for. H. Bauchet. No. 1,395,549; Nov. 1.
- Tractors, Guiding mechanism for. H. O. Hendrickson. No. 1,379,762; May 31; v. 286; p. 900.
- Tractors, Header-pusher for. S. J. Carlson. No. 1,386,352; June 7; v. 287; p. 6.
- Tractors, Hitch for. H. W. Alden. No. 1,374,271; Apr. 12; v. 285; p. 214.
- Tractors, Hitch for. G. H. Scanlan. No. 1,366,216; Jan. 18; v. 282; p. 504.
- Tractors, hoists, and cranes, Overload-release hook for steam and motor. F. J. S. Jones. No. 1,368,559; Feb. 15; v. 283; p. 433.
- Tractors, Implement attachment for. W. L. Bergeron. No. 1,369,606; Feb. 22; v. 283; p. 675.
- Tractors, Mechanism for steering. F. W. Larkworthy. No. 1,378,121; May 17; v. 286; p. 442.
- Tractors or trucks, Bracket for converting pleasure motor-vehicles into motor. J. J. H. Sturme. No. 1,370,616; Mar. 8; v. 284; p. 209.
- Tractors, Pilot attachment for. M. B. Morgan. No. 1,369,696; Feb. 22; v. 283; p. 693.
- Tractors, Plow connection for. P. Blumberg and O. Meili. No. 1,365,299; Jan. 11; v. 282; p. 286.
- Tractors, Plow-lifting mechanism for. D. Militello. No. 1,376,894; May 3; v. 286; p. 98.
- Tractors, Power-delivering attachment for automobile. L. Haubert. No. 1,399,344; Dec. 6.
- Tractors, Power-driven steering mechanism for. E. E. Wickersham. No. 1,395,023; Oct. 25.
- Tractors, Power steering device for. O. L. Lewis. No. 1,394,682; Oct. 25.
- Tractors, Power-transmission for. W. Pauli. No. 1,371,930; Mar. 15; v. 284; p. 524.
- Tractors, Pulverizer attachment for. E. K. M. Bordsen. No. 1,398,668; Nov. 29.
- Tractors, Safety attachment to. H. L. J. Watchhorn, G. H. Roberts and M. Raker. No. 1,373,691; Apr. 5; v. 285; p. 60.
- Tractors, Scarifying and grading device for. C. W. Howe and J. L. Garver. No. 1,373,561; Apr. 5; v. 285; p. 36.
- Tractors, Spring suspension for track-laying. M. B. Morgan. No. 1,380,577; June 7; v. 287; p. 48.
- Tractors, Steering device for. A. G. Crawford. No. 1,380,638; June 7; v. 287; p. 59.
- Tractors, Steering device for. H. Lutterbach. No. 1,394,203; Oct. 18.
- Tractors, Steering-gear for. L. W. Witry. No. 1,381,384; June 14; v. 287; p. 253.
- Tractors, Steering mechanism for. W. C. Baker. No. 1,370,579; Mar. 8; v. 284; p. 201.
- Tractors, Steering mechanism for. J. M. Kroyer. No. 1,387,892; Aug. 16; v. 289; p. 507.
- Tractors, Steering-roller for. J. S. Lingard. No. 1,376,286; Apr. 26; v. 285; p. 695.
- Tractors, Stump pulling and skidder attachment for. H. A. Dorsey. No. 1,374,835; Apr. 12; v. 285; p. 822.
- Tractors, Support and driving mechanism for adjustable drive-wheels of. O. L. Lewis. No. 1,386,123; Aug. 2; v. 289; p. 32.
- Tractors, Throttle control for. H. E. Abbott and E. Enz. No. 1,390,854; Sept. 13; v. 290; p. 352.
- Tractors, Top and fender for. N. Anderson. No. 1,384,735; July 19; v. 288; p. 437.
- Tractors, Track-frame for track-laying. M. B. Morgan and E. H. Savage. No. 1,365,937; Jan. 18; v. 282; p. 450.
- Tractors, Track-link for. T. R. Paulsen. No. 1,391,140; Sept. 20; v. 290; p. 473.
- Tractors, Transmission and steering mechanism for farm-. D. C. Drill. No. 1,395,668; Nov. 1.
- Tractors, Transmission mechanism for. E. F. Norelius. No. 1,387,009; Aug. 9; v. 289; p. 280.
- Tractors, Truck attachment for. F. A. Mitchell. No. 1,397,053; Nov. 15.
- Tractors, &c., Turning mechanism for. A. L. Kins. No. 1,388,579; Aug. 23; v. 289; p. 699.
- Tractors, Wheel of motor-. H. and J. P. Garner. No. 1,401,530; Dec. 27.
- Traffic-directing apparatus. J. W. Curry. No. 1,382,482; June 21; v. 287; p. 521.
- Traffic-direction-signaling device, Street-. J. W. Brenkert. No. 1,394,966; Oct. 25.
- Traffic-director. J. E. Miller. No. 1,368,185; Feb. 8; v. 283; p. 311.
- Traffic-indicator. J. H. Lehman. No. 1,374,380; Apr. 12; v. 285; p. 234.
- Traffic-register. G. Henry. No. 1,368,798; Feb. 15; v. 283; p. 479.
- Traffic-signal. C. O. Anderson and S. Nelson. No. 1,369,951; Mar. 1; v. 284; p. 37.
- Traffic-signal. L. Brooks. No. 1,381,398; June 14; v. 287; p. 256.
- Traffic-signal. F. L. Buff. No. 1,391,240; Sept. 20; v. 290; p. 493.
- Traffic-signal. C. M. Camba. No. 1,376,398; May 3; v. 286; p. 4.
- Traffic-signal. L. Hadfield. No. 1,371,368; Mar. 15; v. 284; p. 416.
- Traffic-signal. E. C. Hodges. No. 1,380,801; June 7; v. 287; p. 92.
- Traffic-signal. S. T. King. No. 1,393,381; Oct. 11.
- Traffic-signaling mechanism. L. C. McAdams. No. 1,394,918; Oct. 25.
- Traffic-signal. A. N. Mendelson. No. 1,372,530; Mar. 22; v. 284; p. 696.
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- Traffic-signal. H. D. Olson. No. 1,371,928; Mar. 15; v. 284; p. 524.
- Traffic-signal. G. Reed. No. 1,388,761; Aug. 23; v. 289; p. 735.
- Traffic-signal. J. Reynard. No. 1,374,471; Apr. 12; v. 285; p. 253.
- Traffic-signal. H. Sorensen. No. 1,368,064; Feb. 8; v. 283; p. 288.
- Traffic-signal. E. A. Sutz. No. 1,391,284; Sept. 20; v. 290; p. 502.
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- Trailer. O. E. Byron. No. 1,366,765; Jan. 25; v. 282; p. 657.
- Trailer. L. A. Dow. No. 1,400,349; Dec. 13.
- Trailer. H. Kapferer. No. 1,401,786; Dec. 27.
- Trailer. C. H. Land, Jr. No. 1,400,752; Dec. 20.
- Trailer connection. W. C. Mangel. No. 1,391,962; Sept. 27; v. 290; p. 712.
- Trailer connection. A. F. Masury. No. 1,380,490; June 7; v. 287; p. 32.
- Trailer, Convertible. A. P. Lee. No. 1,376,443; May 3; v. 286; p. 13.
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- Trailer or wagon. F. S. W. Miller. No. 1,381,327; June 14; v. 287; p. 243.
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- Trailer-steering device. H. J. Ralston. No. 1,381,742; June 14; v. 287; p. 322.
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- Trailer, Two-wheeled. F. T. Falco. No. 1,400,351; Dec. 13.
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- Trailers, Steering-gear for. A. Arato. No. 1,374,175; Apr. 12; v. 285; p. 195.



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 Train-control apparatus. A. J. Brookins. No. 1,389,094; Aug. 30; v. 289; p. 856.  
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 Train-control mechanism. J. J. Murray. No. 1,369,698; Feb. 22; v. 283; p. 693.  
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 Train-controlling mechanism. E. A. Reboul. No. 1,386,656; Aug. 9; v. 289; p. 208.  
 Train-lighting apparatus. W. A. Pitt. No. 1,374,523; Apr. 12; v. 285; p. 263.  
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 Train-pipe coupling. J. E. Forsyth. No. 1,381,865; June 14; v. 287; p. 344.  
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 Train-pipe coupling. S. A. Skoog. No. 1,372,566; Mar. 22; v. 284; p. 703.  
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 Train-stops, Safety attachment for automatic. M. B. Bulla. No. 1,387,233; Aug. 9; v. 289; p. 322.  
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 Train-stopping device, Automatic. G. W. Edwards. No. 1,397,123; Nov. 15.  
 Train-stopping mechanism, Automatic. N. C. Keeling. No. 1,391,255; Sept. 20; v. 290; p. 496.  
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 Trains or cars, Safety apparatus for. W. O. Batts. No. 1,392,620; Oct. 4.  
 Trains, Safety apparatus for the protection of. R. Viau. No. 1,366,613; Jan. 25; v. 282; p. 626.  
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 Transfer-clamp. A. Nelson. No. 1,397,290; Nov. 15.  
 Transfer device, Electric. C. D. Lake. No. 1,372,965; Mar. 29; v. 284; p. 824.  
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 Transformer-cover construction. R. V. Bingay. No. 1,400,515; Dec. 20.  
 Transformer, Hydraulic. R. Johanson. No. 1,377,585; May 10; v. 286; p. 286.  
 Transformer-tank. W. M. Dann. No. 1,374,553; Apr. 12; v. 285; p. 268.  
 Transformer, Water-cooled. H. O. Stephens. No. 1,394,044; Oct. 18.  
 Transformers, Temperature-indicator for. V. M. Montsinger. No. 1,371,923; Mar. 15; v. 284; p. 523.  
 Translating device. W. W. Macfarlane. No. 1,367,613; Feb. 8; v. 283; p. 202.  
 Translating device, Energy-. W. M. White. No. 1,383,361; July 5; v. 288; p. 21.  
 Transmission. F. Cornellson. No. 1,386,396; Aug. 2; v. 289; p. 85.  
 Transmission. A. J. Karl and B. F. Webb. No. 1,400,500; Dec. 13.  
 Transmission. O. S. Pulliam. No. 1,371,187; Mar. 8; v. 284; p. 317.  
 Transmission. O. S. Pulliam. No. 1,391,343; Sept. 20; v. 290; p. 514.  
 Transmission. J. W. Sanders. No. 1,365,546; Jan. 11; v. 282; p. 333.  
 Transmission. H. F. Shannon. No. 1,394,122; Oct. 18.



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- Transmission and change-gearing, Friction-roll. G. Roudil and M. Durand. No. 1,382,244; June 21; v. 287; p. 475.
- Transmission and clutch mechanism, Fluid. R. H. Carson. No. 1,374,985; Apr. 19; v. 285; p. 413.
- Transmission, Automatic change-speed. P. Viviano. No. 1,391,707; Sept. 27; v. 290; p. 661.
- Transmission-band. J. Henry. No. 1,378,862; May 24; v. 286; p. 656.
- Transmission-band. H. F. Hons, Jr. No. 1,378,459; May 17; v. 286; p. 506.
- Transmission-band. W. C. Newbold and G. E. Lentz. No. 1,379,647; May 31; v. 286; p. 879.
- Transmission-bearing and universal-joint cap. G. E. Ruckstell. No. 1,392,452; Oct. 4.
- Transmission-brake-operating mechanism. G. C. Brown. No. 1,383,385; July 5; v. 288; p. 27.
- Transmission-casing. G. H. Padgett. No. 1,366,677; Jan. 25; v. 282; p. 639.
- Transmission-circuits. C. S. Demarest. No. 1,367,590; Feb. 8; v. 283; p. 198.
- Transmission-clutch. W. A. McCarrell. No. 1,380,917; June 7; v. 287; p. 114.
- Transmission construction, Detachable. D. M. White. No. 1,397,304; Nov. 15.
- Transmission-control mechanism. C. B. Kurtz. No. 1,381,713; June 14; v. 287; p. 316.
- Transmission-controlling means, Automatic. J. F. Toomey and C. S. Demarest. No. 1,384,579; July 12; v. 288; p. 323.
- Transmission cover lock. G. C. Jensen. No. 1,385,553; July 26; v. 288; p. 681.
- Transmission device. E. L. Conord. No. 1,390,764; Sept. 13; v. 290; p. 334.
- Transmission device. F. D. Wilson. No. 1,393,870; Oct. 18.
- Transmission, Electrically-controlled. M. Taigman. No. 1,378,146; May 17; v. 286; p. 447.
- Transmission-equalization arrangement. G. K. Thompson. No. 1,367,571; Feb. 8; v. 283; p. 195.
- Transmission-lines, Means for protecting. J. P. Jackson. No. 1,368,339; Feb. 15; v. 283; p. 390.
- Transmission lines, Method and means for correcting irregularities in. M. Sultzer. No. 1,387,210; Aug. 9; v. 289; p. 318.
- Transmission lines, Method of and means for detecting irregularities in. G. Crisson. No. 1,392,815; Oct. 4.
- Transmission-lines, System for the equalization of. B. Gherardi. No. 1,396,930; Nov. 15.
- Transmission-lines, Remote-controlled switch for high-tension. W. H. Symons and L. M. Klauber. No. 1,371,379; Mar. 15; v. 284; p. 418.
- Transmission-lock. L. J. Campbell. No. 1,365,657; Jan. 18; v. 282; p. 394.
- Transmission-lock. S. I. Fekete. No. 1,382,183; June 21; v. 287; p. 463.
- Transmission-lock. S. I. Fekete. No. 1,397,926; Nov. 22.
- Transmission lock. W. Hebern and A. J. Gray. No. 1,397,420; Nov. 15.
- Transmission-lock. J. M. Lea. No. 1,396,855; Nov. 15.
- Transmission, Mechanical. D. P. Demarne. No. 1,385,247; July 19; v. 288; p. 542.
- Transmission mechanism. E. E. Gray. No. 1,371,238; Mar. 15; v. 284; p. 390.
- Transmission mechanism. J. Jessen. No. 1,371,376; Mar. 15; v. 284; p. 418.
- Transmission mechanism. D. L. Kimball. No. 1,398,101; Nov. 22.
- Transmission mechanism. J. M. Kroyer. No. 1,387,891; Aug. 16; v. 289; p. 507.
- Transmission mechanism. C. B. Kurtz. No. 1,378,470; May 17; v. 286; p. 508.
- Transmission mechanism. C. B. Kurtz. No. 1,400,687; Dec. 20.
- Transmission mechanism. P. F. Mueller. No. 1,374,154; Apr. 5; v. 285; p. 150.
- Transmission mechanism. G. R. Pennington and S. K. Wellman. No. 1,380,602; Sept. 6; v. 290; p. 26.
- Transmission mechanism. R. B. Perkins. No. 1,399,573; Dec. 6.
- Transmission mechanism. J. E. Sheriff. No. 1,365,553; Jan. 11; v. 282; p. 335.
- Transmission mechanism. C. E. Stailey, E. H. Blazer, and H. W. Monson. No. 1,394,125; Oct. 18.
- Transmission mechanism. L. B. Strong. No. 1,397,494; Nov. 15.
- Transmission mechanism. E. J. Wellfens. No. 1,391,290; Sept. 20; v. 290; p. 503.
- Transmission mechanism. W. I. Wheeler. No. 1,377,377; May 10; v. 286; p. 247.
- Transmission mechanism. E. E. Wickersham. No. 1,386,979; Aug. 9; v. 289; p. 274.
- Transmission mechanism, Change-speed. R. F. Miehl, Jr. No. 1,382,526; June 21; v. 287; p. 529.
- Transmission mechanism for motors. W. C. Farnum. No. 1,383,705; July 5; v. 288; p. 93.
- Transmission mechanism, Hydraulic. B. G. Newton. No. 1,378,184; May 17; v. 286; p. 454.
- Transmission mechanism, Power-pulley mounting for. A. H. Asprooth. No. 1,400,510; Dec. 20.
- Transmission mechanism, Variable-speed. W. K. Thomas. No. 1,378,634; May 17; v. 286; p. 540.
- Transmission of intelligence. E. H. Colpitts and H. D. Arnold. No. 1,388,450; Aug. 23; v. 289; p. 676.
- Transmission of intelligence, System for. E. O. Scriven. No. 1,396,786; Nov. 15.
- Transmission, Planetary. W. F. Drew and B. V. Korvin-Kroukovsky. No. 1,396,821; Nov. 15.
- Transmission, Resiliently-mounted. H. J. Murray and W. S. Rugg. No. 1,386,589; Aug. 2; v. 289; p. 122.
- Transmission-shaft construction and means for lubricating the same, System of vertical. W. A. Doble. No. 1,383,989; July 5; v. 288; p. 152.
- Transmission system. A. L. Fitch. No. 1,397,862; Nov. 22.
- Transmission system, Composite. H. S. Osborne. No. 1,374,219; Apr. 12; v. 285; p. 204.
- Transmission system, Motion. W. and W. R. Chadburn. No. 1,390,092; Sept. 6; v. 290; p. 108.
- Transmission, Variable-speed. D. E. Lewellen. No. 1,377,593; May 10; v. 286; p. 288.
- Transmitter. F. C. Breckenridge. No. 1,377,144; May 3; v. 286; p. 146.
- Transmitter. H. J. Carmody. No. 1,372,862; Mar. 29; v. 284; p. 803.
- Transmitter. R. M. Hopkins. No. 1,398,594; Nov. 29.
- Transmitter. M. R. Myers. No. 1,366,410; Jan. 25; v. 282; p. 585.
- Transmitter. F. E. Summers. No. 1,374,688; Apr. 12; v. 285; p. 295.
- Transmitter and circuits therefor. N. H. Holland. No. 1,397,687; Nov. 22.
- Transmitter and receiver, Combined. W. W. Dean. No. 1,382,273; June 21; v. 287; p. 480.
- Transmitter, Impulse. H. F. Dobbin and E. W. Gent. No. 1,390,679; Sept. 13; v. 290; p. 318.
- Transmitter-mounting. G. M. O. Jenkins. No. 1,368,261; Feb. 15; v. 283; p. 374.
- Transmitter-mouthpieces, Sanitary cover for. S. Flack. No. 1,370,104; Mar. 1; v. 284; p. 66.
- Transmitting apparatus. D. G. McCaa. No. 1,382,206; June 21; v. 287; p. 467.
- Transmitting heat, Method of and apparatus for. C. Hering. No. 1,390,783; Sept. 13; v. 290; p. 338.
- Transmitting system, Electromagnetic-wave. O. C. Roos. No. 1,369,281; Feb. 22; v. 283; p. 612.
- Transplanter. B. F. Chaney. No. 1,368,486; Feb. 15; v. 283; p. 419.
- Transplanting-receptacle. L. Well. No. 1,380,327; May 31; v. 286; p. 1007.
- Transportation control, System of. H. T. Smith. No. 1,394,368; Oct. 18.
- Transportation system. C. C. Cox. No. 1,397,242; Nov. 15.
- Trap: See—
- |                           |                                 |
|---------------------------|---------------------------------|
| Air-trap.                 | Mouse-trap.                     |
| Animal-trap.              | Non-siphonable trap.            |
| Automatic sand-trap.      | Oil-separator trap.             |
| Bath-trap.                | Oil strainer and sediment trap. |
| Bee-trap.                 | Pumping-trap.                   |
| Bird-trap.                | Rat-trap.                       |
| Box-trap.                 | Rat, mouse, and insect trap.    |
| Burglar-trap.             | Rat or animal trap.             |
| Collapsible trap.         | Rodent-trap.                    |
| Drain-valve trap.         | Sand-trap.                      |
| Electric animal-trap.     | Sanitary trap.                  |
| Floating fish-trap.       | Separating-trap.                |
| Flytrap.                  | Stairway-trap.                  |
| Fly or other insect trap. | Steam-trap.                     |
| Game-trap.                | Target-trap.                    |
| Gopher-trap.              | Thief-trap.                     |
| Insect-trap.              | Tub and sink trap.              |
| Jaw-trap.                 |                                 |
| Mole-trap.                |                                 |
- Trap. C. C. Albers and G. Dumler. No. 1,372,663; Mar. 29; v. 284; p. 763.
- Trap. L. J. Andrews. No. 1,376,308; Apr. 26; v. 285; p. 699.
- Trap. S. E. Bailey. No. 1,366,049; Jan. 18; v. 282; p. 471.
- Trap. W. I. Croyle. No. 1,387,129; Aug. 9; v. 289; p. 303.
- Trap. A. Dixon. No. 1,384,942; July 19; v. 288; p. 479.
- Trap. A. P. Greim. No. 1,393,438; Oct. 11.
- Trap. H. W. Justus. No. 1,380,971; June 7; v. 287; p. 124.
- Trap. W. R. Lazenby. No. 1,389,884; Sept. 6; v. 290; p. 66.
- Trap. A. F. Lonk. No. 1,382,298; June 21; v. 287; p. 485.
- Trap. J. J. McDonald. No. 1,384,910; July 10; v. 288; p. 472.
- Trap. W. B. Miller. No. 1,366,059; Jan. 18; v. 282; p. 473.
- Trap. N. S. Nelson and A. Roode. No. 1,391,570; Sept. 20; v. 290; p. 560.
- Trap. S. R. Payne. No. 1,387,735; Aug. 16; v. 289; p. 476.
- Trap. F. Phillips. No. 1,368,749; Feb. 15; v. 283; p. 470.
- Trap. F. Phillips. No. 1,391,577; Sept. 20; v. 290; p. 561.
- Trap. C. J. Roy. No. 1,377,441; May 10; v. 286; p. 260.
- Trap. J. Skarzynski. No. 1,392,666; Oct. 4.
- Trap. G. H. Thompson. No. 1,394,649; Oct. 25.
- Trap. W. L. Wigington. No. 1,366,989; Feb. 1; v. 283; p. 21.
- Trap. W. W. Wilhoit. No. 1,375,196; Apr. 19; v. 285; p. 455.



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- Trap-Air-. J. H. Bledsoe and M. Hauser. No. 1,364,690; Jan. 4; v. 282; p. 124.
- Trap-door for mines, Automatic. W. W. Wingo. No. 1,388,681; Aug. 23; v. 289; p. 719.
- Trap-jaw. J. O'Neil. No. 1,390,215; Sept. 6; v. 290; p. 131.
- Trap-nest. A. O. and P. M. Forster. No. 1,386,327; Aug. 2; v. 289; p. 73.
- Trap-nest, Automatic. F. A. Meyer. No. 1,367,198; Feb. 1; v. 283; p. 63.
- Trap, Non-siphonable. D. A. Gillen. No. 1,398,427; Nov. 29.
- Trap-setting tool. L. J. Genett. No. 1,365,478; Jan. 11; v. 282; p. 520.
- Trap-shooting, Flying target for. F. G. Mitchell. No. 1,369,830; Mar. 1; v. 284; p. 15.
- Trap, Spore. J. O. Fuller. No. 1,396,568; Nov. 8.
- Trap-spring. W. I. Freeman. No. 1,366,375; Jan. 25; v. 282; p. 578.
- Traps, Air-inlet for main house-. J. I. Mellon. No. 1,371,568; Mar. 15; v. 284; p. 456.
- Traps, Luminous lure for animal-. W. Quaritius. No. 1,399,518; Dec. 6.
- Traps, Support for. W. A. Gibbs. No. 1,375,286; Apr. 19; v. 285; p. 472.
- Trapper's compound tool. C. W. Pleaue. No. 1,398,342; Nov. 29.
- Trapper's tool. W. R. Lazenby. No. 1,369,750; Feb. 22; v. 283; p. 704.
- Trapper's tool. W. R. Lazenby. No. 1,395,122; Oct. 2b.
- Trash-receptacle and advertising medium, Combined. G. J. Richardson. No. 1,350,252; May 31; v. 286; p. 992.
- Traveling-bag. G. Panyity. No. 1,368,523; Feb. 15; v. 283; p. 426.
- Traveling-bag. F. H. White. No. 1,367,574; Feb. 8; v. 283; p. 195.
- Traveling lawn-sprinkler. E. Johnson. No. 1,375,206; Apr. 19; v. 285; p. 474.
- Trawling and like fishing apparatus. C. P. Dros. No. 1,388,414; Aug. 23; v. 289; p. 668.
- Trawling apparatus. J. J. Anderson. No. 1,381,265; June 14; v. 287; p. 231.
- Trawling kit. C. W. Dice. No. 1,371,148; Mar. 8; v. 284; p. 310.
- Tray. C. E. Geierich. No. 1,370,741; Mar. 8; v. 284; p. 233.
- Tray. G. E. Ohde. No. 1,390,157; Sept. 6; v. 290; p. 120.
- Tray. M. W. Porter. No. 1,364,206; Jan. 4; v. 282; p. 31.
- Tray. J. A. Thompson. No. 1,401,209; Dec. 27.
- Tray, Adjustable. C. H. Ristenpart. No. 1,389,986; Sept. 6; v. 290; p. 86.
- Tray, Advertising change-. M. Kline. No. 1,389,365; Aug. 30; v. 289; p. 910.
- Tray, Ash-. J. F. Downey. No. 1,372,124; Mar. 22; v. 284; p. 614.
- Tray, Assorting-. W. S. Sheppard. No. 1,372,098; Mar. 22; v. 284; p. 613.
- Tray-chair. G. L. Platts. No. 1,383,020; June 28; v. 287; p. 677.
- Tray, Check, deposit, and remittance. W. F. Schnell. No. 1,383,570; July 5; v. 288; p. 64.
- Tray, Desk-. J. S. Luckett and C. C. Livesay. No. 1,386,717; Aug. 9; v. 289; p. 221.
- Tray, Drying-. J. T. Wann. No. 1,367,443; Feb. 1; v. 283; p. 111.
- Tray for carrying cakes, &c. F. Beers and H. L. Powell. No. 1,290,665; Sept. 13; v. 290; p. 315.
- Tray, Ice-cream-cone-. W. J. and S. Harding. No. 1,370,811; Mar. 8; v. 284; p. 247.
- Tray, Impression-. S. G. Supplee. No. 1,385,505; July 26; v. 288; p. 671.
- Tray-ledger. J. E. Bemis. No. 1,381,902; June 21; v. 287; p. 412.
- Tray-making machine. A. J. Kusterer. No. 1,389,197; Aug. 30; v. 289; p. 876.
- Tray or basket, Dish-holding. W. J. Lynch. No. 1,371,253; Mar. 15; v. 284; p. 393.
- Tray, Ornamental. G. H. Weinrich. No. 1,396,484; Nov. 8.
- Tray, Safety-match. A. A. Tubbs. No. 1,379,424; May 24; v. 286; p. 763.
- Tray, Self-discharging. H. Lee. No. 1,384,667; July 12; v. 288; p. 343.
- Tread. W. Bernstein. No. 1,389,025; Aug. 30; v. 289; p. 845.
- Tread for vehicle-wheels, Tractor-. L. S. Szumkowski. No. 1,364,219; Jan. 4; v. 282; p. 33.
- Tread, Ground-gripper detachable. E. Erik. No. 1,398,893; Nov. 29.
- Tread-roller. P. H. Wilkinson. No. 1,400,474; Dec. 13.
- Tread, Safety-. J. O. Fowler. (Reissue.) No. 15,137; July 5; v. 288; p. 161.
- Tread-wheel. W. C. Starr. No. 1,377,447; May 10; v. 286; p. 261.
- Treads, Device for molding tire-. G. W. Brownwell. No. 1,364,241; Jan. 4; v. 282; p. 37.
- Treads, Making safety-. G. N. Jeppson. No. 1,371,684; Mar. 15; v. 284; p. 478.
- Treating apparatus. C. E. Burke and G. Barnhart. No. 1,399,102; Dec. 6.
- Treating substances. B. A. Gould. No. 1,400,484; Dec. 13.
- Treating substances. O. H. Hansen. No. 1,390,703; Sept. 13; v. 290; p. 321.
- Treatment of materials to reduce their inflammability. A. Arent. No. 1,388,826; Aug. 23; v. 289; p. 747.
- Treatment of rheumatism, gout, sciatica, neuralgia, and similar ailments, Apparatus for. J. Krauer. No. 1,375,050; Apr. 19; v. 285; p. 427.
- Treatment-table. J. V. McManis. No. 1,371,502; Mar. 15; v. 284; p. 443.
- Treatment-table. J. V. McManis and F. Koenigkramer. No. 1,390,301; Sept. 13; v. 290; p. 240.
- Tree. See—
- Doubletree.
- Tree-bracing device. G. R. Amon. No. 1,367,906; Feb. 8; v. 283; p. 258.
- Tree-growth-measuring instrument. D. T. MacDougal. No. 1,385,139; July 19; v. 288; p. 521.
- Tree holder, Christmas-. W. R. Samuel and R. Wertheimer. No. 1,372,777; Mar. 29; v. 284; p. 785.
- Tree-holder, Portable. P. J. Ihrig. No. 1,401,259; Dec. 27.
- Tree-limb support. G. Bosmajian. No. 1,389,932; Sept. 6; v. 290; p. 76.
- Tree or plant support. E. Hanner. No. 1,377,832; May 10; v. 286; p. 335.
- Tree-prop. L. M. Fleckner. No. 1,376,686; May 3; v. 286; p. 57.
- Tree-trimmer. J. Halicki. No. 1,375,091; Apr. 19; v. 285; p. 431.
- Trees, Filler for cavities in. J. J. Nicholas. No. 1,380,922; June 7; v. 287; p. 115.
- Trees, &c., Holder for Christmas. W. Dicks. No. 1,401,144; Dec. 27.
- Trench-digger. A. F. Figgures. No. 1,366,253; Jan. 18; v. 282; p. 511.
- Trench-mortar. A. G. Bergman. No. 1,399,243; Dec. 6.
- Trench wall supporting machine. S. B. Gardner. No. 1,391,624; Sept. 20; v. 290; p. 570.
- Trench-weapon. S. M. Kass. No. 1,376,888; May 3; v. 286; p. 97.
- Trenching apparatus. T. F. Moore. No. 1,378,970; May 24; v. 286; p. 677.
- Trenching-machine. F. E. Bager. No. 1,400,712; Dec. 20.
- Trenching-machine. J. C. French. No. 1,377,339; May 10; v. 286; p. 239.
- Trestle. M. Herman. No. 1,380,718; June 7; v. 287; p. 75.
- Trial-frame. W. H. Boutelle. No. 1,375,669; Apr. 26; v. 285; p. 578.
- Trial spectacle-frame. C. F. Wall and F. Harker. No. 1,380,166; May 31; v. 286; p. 977.
- Trichlorethylene, Making. J. R. MacMillan. No. 1,397,134; Nov. 15.
- Tricycle. G. A. Olsen. No. 1,392,848; Oct. 4.
- Tricycle, Rocking. N. Chadelaine. No. 1,396,505; Nov. 8.
- Tricycles, Auxiliary seat for. A. Dobrowolski. No. 1,374,911; Apr. 19; v. 285; p. 399.
- Trimmer. See—
- Artichoke-trimmer. Lawn-edge trimmer.
- Fruit-gatherer and tree-trimmer. Pocket-knife-bolster trimmer.
- Grass-trimmer. Selvage-trimmer.
- Green-cob-corn trimmer. Shank-edge trimmer.
- Heel-trimmer. Tree-trimmer.
- Trimmer. A. G. Hagstrom. No. 1,389,302; Aug. 30; v. 289; p. 898.
- Trimming dashed edges on binding, Machine for. W. J. Kent. No. 1,382,651; June 28; v. 287; p. 607.
- Trimming-machine. A. Cohn. No. 1,367,656; Feb. 8; v. 283; p. 211.
- Trimming-machine. E. E. Winkley. No. 1,393,656; Oct. 11.
- Trimming machine, Edge. E. Godien. No. 1,383,297; July 5; v. 288; p. 8.
- Trimming machine, Ple-crust-. J. J. Linden. No. 1,384,907; July 19; v. 288; p. 472.
- Trimming mechanism. G. H. Hulett. No. 1,377,686; May 10; v. 286; p. 305.
- Trip mechanism, Automatic. E. A. Clark. No. 1,397,857; Nov. 22.
- Tripper, Uniformly-distributing. M. A. Kendall. No. 1,375,704; Apr. 26; v. 285; p. 584.
- Tripping mechanism, Dipper-. E. J. Wilkie, P. S. Stevens, and W. Lehman. No. 1,376,181; Apr. 26; v. 285; p. 674.
- Triplane. G. H. Curtiss. No. 1,368,550; Feb. 15; v. 283; p. 431.
- Triplane. J. L. Shankand. No. 1,377,973; May 10; v. 286; p. 362.
- Tripod-heads, Lock for. W. C. Vaeth. No. 1,386,664; Aug. 9; v. 289; p. 210.
- Tripod-support. E. L. Reed. No. 1,371,263; Mar. 15; v. 284; p. 395.
- Trocar. W. B. Westcott. No. 1,380,447; June 7; v. 287; p. 23.
- Trolley. C. Alborg. No. 1,384,418; July 12; v. 288; p. 290.
- Trolley. M. D. Dominguez. No. 1,392,560; Oct. 4.
- Trolley. J. L. Gutweiler and F. W. Kublin. No. 1,385,678; July 26; v. 288; p. 707.
- Trolley. J. L. Gutweiler and F. W. Kublin. No. 1,397,760; Nov. 22.
- Trolley. W. Johnson. No. 1,373,007; Mar. 29; v. 284; p. 832.
- Trolley. L. W. Kaempf. No. 1,375,591; Apr. 19; v. 285; p. 530.



- Trolley. H. C. Lindros. No. 1,365,573; Jan. 11; v. 282; p. 327.
- Trolley. J. E. McBride. No. 1,372,761; Mar. 29; v. 284; p. 782.
- Trolley. G. B. Nussbaum. No. 1,378,554; May 17; v. 286; p. 524.
- Trolley. W. Rennie. No. 1,364,208; Jan. 4; v. 282; p. 31.
- Trolley. A. Shultz. No. 1,383,158; June 28; v. 287; p. 703.
- Trolley. E. W. Sinnett. No. 1,365,201; Jan. 11; v. 282; p. 266.
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- Trolley-actuated circuit-closer. W. Walker and J. B. Lemley. No. 1,366,304; Jan. 18; v. 282; p. 520.
- Trolley and hoist. Combined. A. H. Neller. No. 1,380,830; June 7; v. 287; p. 97.
- Trolley apparatus. F. M. Johnston. No. 1,401,082; Dec. 20.
- Trolley-catcher. W. K. Moschel. No. 1,370,146; Mar. 1; v. 284; p. 74.
- Trolley-catcher. J. R. Ricketts. No. 1,393,570; Oct. 11.
- Trolley-clamp. A. L. Freret. No. 1,399,857; Dec. 13.
- Trolley-clamping ear, Catenary. P. G. Schwarz. No. 1,393,458; Oct. 11.
- Trolley-conductor clamp, Insulator. N. J. A. Wahlberg. No. 1,387,524; Aug. 16; v. 289; p. 433.
- Trolley-conductor device. W. Schaake. No. 1,370,050; Mar. 1; v. 284; p. 56.
- Trolley-conductors, Device for. W. Schaake. No. 1,374,528; Apr. 12; v. 285; p. 264.
- Trolley-contactor. A. Frohne. No. 1,390,120; Sept. 6; v. 290; p. 113.
- Trolley-controlling device. F. H. Burnham. No. 1,376,918; May 3; v. 286; p. 103.
- Trolley-controlling mechanism. G. M. Waterhouse, Sr. No. 1,372,920; Mar. 29; v. 284; p. 815.
- Trolley device. A. J. A. Wahlberg. No. 1,379,705; May 31; v. 286; p. 890.
- Trolley-ear. W. H. Siemon and H. L. Garbutt. No. 1,368,360; Feb. 15; v. 283; p. 394.
- Trolley-ender. L. Karandyszewski. No. 1,391,387; Sept. 20; v. 290; p. 522.
- Trolley-frame. K. S. Howard. No. 1,376,881; May 3; v. 286; p. 96.
- Trolley-frogs, Approach for. F. H. Miller. No. 1,370,033; Mar. 1; v. 284; p. 53.
- Trolley-guard. C. C. Johnson. No. 1,371,788; Mar. 15; v. 284; p. 498.
- Trolley-guard. F. J. Lowry. No. 1,373,340; Mar. 29; v. 284; p. 898.
- Trolley guard and fender. P. J. Kelley. No. 1,391,191; Sept. 20; v. 290; p. 482.
- Trolley-guide. J. G. Brady. No. 1,371,294; Mar. 15; v. 284; p. 401.
- Trolley-hanger. L. F. Brahmer. No. 1,393,491; Oct. 11.
- Trolley-hanger. H. L. Garbutt. No. 1,374,561; Apr. 12; v. 285; p. 270.
- Trolley-hanger. W. Schaake. No. 1,401,650; Dec. 27.
- Trolley-harp. P. Konopski. No. 1,370,126; Mar. 1; v. 284; p. 70.
- Trolley-harp. R. C. Showalter. No. 1,380,684; June 7; v. 287; p. 68.
- Trolley-harp and head therefor. C. T. Gillenwater and J. L. Pedigo. No. 1,376,688; May 3; v. 286; p. 57.
- Trolley-harp attachment. J. C. Cooper, Sr. No. 1,409,476; Dec. 13.
- Trolley-harp carrier. C. J. Dorrance. No. 1,394,507; Oct. 18.
- Trolley-harp extension. W. F. Freeman. No. 1,383,796; July 5; v. 288; p. 112.
- Trolley-head. H. Dafron and C. C. Pullem. No. 1,381,807; June 14; v. 287; p. 334.
- Trolley-head. I. Van der Straeten. No. 1,393,254; Oct. 11.
- Trolley. Hoist. H. R. Butler. No. 1,390,981; Sept. 20; v. 290; p. 440.
- Trolley-line support. W. E. Richards. No. 1,373,972; Apr. 5; v. 285; p. 116.
- Trolley. Mine. R. G. Wilson. No. 1,366,142; Jan. 18; v. 282; p. 489.
- Trolley-mount. H. J. and E. F. Murphy. No. 1,392,846; Oct. 4.
- Trolley or collector for electric tramway and railway vehicles, Overhead. T. Blaney and D. Williams. No. 1,393,939; Oct. 18.
- Trolley. Pantograph. W. Schaake. No. 1,400,101; Dec. 13.
- Trolley-pole. A. W. Carrol and G. P. Stoddard. No. 1,396,928; Nov. 15.
- Trolley-pole. C. S. Essex. No. 1,369,796; Mar. 1; v. 284; p. 8.
- Trolley-pole. C. H. Gunn. No. 1,371,557; Mar. 15; v. 284; p. 454.
- Trolley-pole. J. J. Matty. No. 1,380,491; June 7; v. 287; p. 32.
- Trolley-pole. E. M. Wages. No. 1,365,874; Jan. 18; v. 282; p. 437.
- Trolley-pole. M. D. Watrous. No. 1,374,047; Apr. 5; v. 285; p. 130.
- Trolley-pole head. G. T. Bell. No. 1,378,991; May 24; v. 286; p. 681.
- Trolley-pole head. H. F. Norman. No. 1,379,037; May 24; v. 286; p. 689.
- Trolley-pole retriever. B. F. Johnson. No. 1,385,621; July 26; v. 288; p. 695.
- Trolley-poles, Retriever-cord guide for. W. H. Wyles. No. 1,395,623; Nov. 1.
- Trolley-retriever. I. L. Carpenter. No. 1,380,314; May 31; v. 286; p. 1004.
- Trolley-retriever. A. A. Cohen. No. 1,375,034; Apr. 19; v. 285; p. 424.
- Trolley-retriever. G. E. Harpham. No. 1,381,875; June 14; v. 287; p. 347.
- Trolley-retriever for street-cars. W. R. Hampden. No. 1,396,367; Nov. 8.
- Trolley-restoring mechanism. G. A. Lafontaine. No. 1,391,392; Sept. 20; v. 290; p. 523.
- Trolley-rudder. Gravity. F. Graf. No. 1,386,566; Aug. 2; v. 289; p. 117.
- Trolley. Safety. O. L. Chesnutt. No. 1,390,885; Sept. 13; v. 290; p. 358.
- Trolley-shoe. W. F. Freeman. No. 1,383,797; July 5; v. 288; p. 112.
- Trolley-shoe. O. P. Hipple. No. 1,370,018; Mar. 1; v. 284; p. 50.
- Trolley-shoe. J. S. O'Brien. No. 1,367,920; Feb. 8; v. 283; p. 261.
- Trolley-shoe. L. H. Shipman. No. 1,388,528; Aug. 23; v. 289; p. 690.
- Trolley. Sliding. O. Moore. No. 1,387,897; Aug. 16; v. 289; p. 508.
- Trolley. Sliding. O. Moore. (Reissue.) No. 15,252; Dec. 20.
- Trolley-switches, Mounting for. H. E. Ballard. No. 1,377,653; May 10; v. 286; p. 299.
- Trolley systems, Device for preventing wrecking of cross-wires of. W. F. Murray. No. 1,388,287; Aug. 23; v. 289; p. 642.
- Trolley-track hanger. E. Fechner and G. Van Deventer. No. 1,396,564; Nov. 8.
- Trolley-wheel. W. B. Cullen. No. 1,376,408; May 3; v. 286; p. 6.
- Trolley-wheel. H. M. Kaul. No. 1,400,681; Dec. 20.
- Trolley-wheel. R. G. Larson and W. F. Horton. No. 1,367,913; Feb. 8; v. 283; p. 260.
- Trolley-wheel. C. E. Liebenberg. No. 1,391,741; Sept. 27; v. 290; p. 667.
- Trolley-wheel. S. D. Master. No. 1,385,881; July 26; v. 288; p. 747.
- Trolley-wheel. O. Moore. No. 1,382,664; June 28; v. 287; p. 610.
- Trolley-wheel. S. S. Rigby. No. 1,401,495; Dec. 27.
- Trolley-wheel. M. Rupert. No. 1,365,277; Jan. 11; v. 282; p. 281.
- Trolley-wheel. J. A. Wendell. No. 1,391,085; Sept. 20; v. 290; p. 461.
- Trolley-wheel. S. Zelazo. No. 1,368,006; Feb. 8; v. 283; p. 277.
- Trolley wheel and harp. W. R. Gillies. No. 1,366,378; Jan. 25; v. 282; p. 578.
- Trolley-wheel attachment. W. T. Hill. No. 1,380,959; June 7; v. 287; p. 122.
- Trolley-wheel bearing. E. Loudenslager. No. 1,367,706; Feb. 8; v. 283; p. 220.
- Trolley-wheel fork, Adjustable. D. M. Fowler. No. 1,384,458; July 12; v. 288; p. 298.
- Trolley-wheel guard. J. A. Murray and R. S. Buchanan. No. 1,376,722; May 3; v. 286; p. 64.
- Trolley-wheel guard. G. Dzurko. No. 1,364,258; Jan. 4; v. 282; p. 41.
- Trolley-wheel guard. A. L. Hitchcock. No. 1,376,204; Apr. 26; v. 285; p. 679.
- Trolley-wheel guide. C. F. Falline. No. 1,365,821; Jan. 18; v. 282; p. 427.
- Trolley-wire clamp. G. E. Henry. No. 1,367,598; Feb. 8; v. 283; p. 200.
- Trolley-wire clamp. S. S. Matthes. No. 1,390,369; Sept. 13; v. 290; p. 254.
- Trolley-wire contactor. R. R. Scoggan. No. 1,395,873; Nov. 1.
- Trolley-wire extension-splice. M. W. Hermes. No. 1,393,530; Oct. 11.
- Trolley-wire fittings, Structure for. N. J. A. Wahlberg. No. 1,374,537; Apr. 12; v. 285; p. 265.
- Trolley-wire hanger. E. Heydon. No. 1,375,152; Apr. 19; v. 285; p. 447.
- Trolley-wire holder. J. Bulthouse. No. 1,367,535; Feb. 8; v. 283; p. 188.
- Trolley-wire holder. F. Madrak. No. 1,375,599; Apr. 19; v. 285; p. 531.
- Trolley-wire protector. F. Colabrese. No. 1,398,005; Nov. 22.
- Trolley-wire splice. J. J. Fisher. No. 1,386,326; Aug. 2; v. 289; p. 73.
- Trolley-wires, Splicing-ear for overhead. R. Rose and N. F. Cimaglia. No. 1,377,972; May 10; v. 286; p. 362.
- Trolley-wire support. H. L. Miller. No. 1,389,773; Sept. 6; v. 290; p. 43.
- Trolley-wire support. J. F. Montine. No. 1,370,144; Mar. 1; v. 284; p. 73.
- Trolley-wire switch. M. N. Mikulic. No. 1,396,690; Nov. 8.
- Trolley-wires, Hanger for. T. J. Henderson. No. 1,372,507; Mar. 22; v. 284; p. 692.
- Trolley-wires, Suspension for. G. W. Bower. No. 1,378,519; May 17; v. 286; p. 518.
- Trolling device. C. S. Hurtt. No. 1,400,821; Dec. 20.



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- Trouble-hunter. D. C. Lamb. No. 1,374,455; Apr. 12; v. 285; p. 250.
- Trough: See—
- Feed-trough. Operating-trough.
- Hog-trough. Station-trough.
- Trough and support, Eaves-. J. E. Hyre. No. 1,401,703; Dec. 27.
- Trough-cover-lifting mechanism. M. Rosenkranz. No. 1,399,883; Dec. 13.
- Trough-dumping mechanism. M. Rosenkranz. No. 1,399,882; Dec. 13.
- Trough, Water-. L. J. Hogan and L. L. Furman. No. 1,393,686; Oct. 11.
- Troughs, Attachment for eaves-. W. Gray. No. 1,373,883; Apr. 5; v. 285; p. 98.
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- Trousers. G. Rottman. No. 1,395,361; Nov. 1.
- Trousers and like press. N. V. Dyte. No. 1,394,290; Oct. 18.
- Trousers and pants. L. Friedman. No. 1,396,181; Nov. 8.
- Trousers appliance. A. K. Wander. No. 1,368,866; Feb. 15; v. 283; p. 493.
- Trousers-belt. M. Awner. No. 1,378,207; May 17; v. 286; p. 458.
- Trousers, Device for hanging and pressing. J. J. Getgey. No. 1,400,741; Dec. 20.
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- Trousers-protector, Suspended. E. L. Richardson. No. 1,395,772; Nov. 1.
- Trousers-stretcher. A. H. Doyle. No. 1,396,735; Nov. 15.
- Trousers-stretcher. O. B. Hillstrom. No. 1,377,580; May 10; v. 286; p. 285.
- Trousers-stretcher. A. Lapka and B. Goryl. No. 1,365,253; Jan. 11; v. 282; p. 277.
- Trousers-support, Concealed. C. A. Buchholz. No. 1,367,235; Feb. 1; v. 283; p. 70.
- Trousers-supporter. L. Woods. No. 1,385,103; July 19; v. 288; p. 513.
- Trousers-supporter. L. Woods. No. 1,392,241; Sept. 27; v. 290; p. 768.
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- Trowel. G. C. Smith. No. 1,370,060; Mar. 1; v. 284; p. 58.
- Trowel, Corner-. W. W. Word. No. 1,383,688; July 5; v. 288; p. 89.
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- Truck. A. M. Bellony. No. 1,392,103; Sept. 27; v. 290; p. 741.
- Truck. R. A. Bradley. No. 1,368,886; Feb. 15; v. 283; p. 496.
- Truck. F. E. Carter. No. 1,374,986; Apr. 19; v. 285; p. 414.
- Truck. L. L. Gilkey and C. H. Braselton. No. 1,390,123; Sept. 6; v. 290; p. 114.
- Truck. H. H. Gontrom and H. G. Coster. No. 1,368,716; Feb. 15; v. 283; p. 464.
- Truck. E. R. Hill and J. W. Marsh. No. 1,388,816; Aug. 23; v. 289; p. 746.
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- Truck. M. P. Holmes. No. 1,378,814; May 17; v. 286; p. 575.
- Truck. M. P. Holmes. No. 1,378,815; May 17; v. 286; p. 575.
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- Truck. M. P. Holmes. No. 1,378,819; May 17; v. 286; p. 575.
- Truck. A. Littlefield. No. 1,376,955; May 3; v. 286; p. 110.
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- Truck. W. C. Ortgiel. No. 1,375,535; Apr. 19; v. 285; p. 519.
- Truck. W. O. Shadbolt. No. 1,399,583; Dec. 6.
- Truck. H. A. Smith. No. 1,367,672; Feb. 8; v. 283; p. 214.
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- Truck. O. L. E. Weber. No. 1,377,978; May 10; v. 286; p. 363.
- Truck. A J Wood. No. 1,392,387; Oct. 4.
- Truck and fodder-binder, Husking-. J. K. Alleman. No. 1,367,344; Feb. 1; v. 283; p. 92.
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- Truck, Arch-bar. J. W. Curran. No. 1,370,519; Mar. 8; v. 284; p. 190.
- Truck arrangement, Railway-. J. A. Lamont. No. 1,377,703; May 10; v. 286; p. 309.
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- Truck-body tilting or dumping device. C. J. McTighe. No. 1,387,423; Aug. 9; v. 289; p. 362.
- Truck-bolster. J. A. Lamont. No. 1,377,706; May 10; v. 286; p. 309.
- Truck-bolster. E. C. Washburn. No. 1,367,645; Feb. 8; v. 283; p. 209.
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- Truck-brake. J. O. Garrett. No. 1,393,013; Oct. 11.
- Truck-brake. F. G. Halladay. No. 1,375,150; Apr. 19; v. 285; p. 446.
- Truck-cab. K. S. Baxter. No. 1,393,071; Oct. 11.
- Truck, Car-. T. Elliott. No. 1,365,900; Jan. 18; v. 282; p. 442.
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- Truck construction, Extendible. H. R. Bruah. No. 1,392,395; Oct. 4.
- Truck construction, Railway-car-. J. A. Lamont. No. 1,390,450; Sept. 13; v. 290; p. 270.
- Truck construction, Tractor-. F. E. Holt. No. 1,394,996; Oct. 25.
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- Truck, Dumping-. P. E. Barker. No. 1,380,881; June 7; v. 287; p. 107.
- Truck, Dumping-. F. M. Goossen. No. 1,377,881; May 10; v. 286; p. 344.
- Truck, Dumping-. A. and A. A. Juelfs. No. 1,366,666; Jan. 25; v. 282; p. 636.
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- Truck, Dumping-. F. R. Sills. No. 1,380,846; June 7; v. 287; p. 100.
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- Truck equalization arrangement, Railway-car-. J. A. Lamont. No. 1,377,707; May 10; v. 286; p. 309.
- Truck-equalizing arrangement. J. A. Lamont. No. 1,377,709; May 10; v. 286; p. 310.
- Truck excavator, Motor-. L. C. Josephs, Jr. No. 1,388,650; Aug. 23; v. 289; p. 713.
- Truck extension. T. Devenenzi. No. 1,366,771; Jan. 25; v. 282; p. 658.
- Truck for industrial purposes, Trailer-. W. E. Ferris. No. 1,378,445; May 17; v. 286; p. 503.
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- Truck for railway-cars. J. A. Lamont. No. 1,377,705; May 10; v. 286; p. 309.
- Truck for vehicles. S. H. Clapp. No. 1,388,405; Aug. 23; v. 289; p. 666.
- Truck-frame for mine-cars. F. S. Barks. No. 1,389,928; Sept. 6; v. 290; p. 75.
- Truck-frame for railway-cars. H. A. Benedict and E. M. Moller. No. 1,389,616; Sept. 6; v. 290; p. 11.
- Truck, Freight-handling. J. C. Morgan and C. S. Schroeder. No. 1,379,472; May 24; v. 286; p. 771.
- Truck-gate-securing means. W. G. Mayer. No. 1,364,779; Jan. 4; v. 282; p. 141.
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- Truck, Hand-. T. Harris. No. 1,367,316; Feb. 1; v. 283; p. 86.
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- Truck, Hand-. E. L. Hyde. No. 1,365,106; Jan. 11; v. 282; p. 248.
- Truck, Hand-. J. Jewell. No. 1,367,396; Feb. 1; v. 283; p. 102.
- Truck, Hand-. H. F. Klein. No. 1,374,379; Apr. 12; v. 285; p. 234.
- Truck, Hand-. J. Welby. No. 1,364,535; Jan. 4; v. 282; p. 95.
- Truck, Hay-. A. Legband. No. 1,381,479; June 14; v. 287; p. 271.
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- Truck holder, Baggage-. C. O. Larson. No. 1,381,650; June 14; v. 287; p. 303.
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- Truck, Industrial. C. E. Cochran. No. 1,399,543; Dec. 6.
- Truck, Industrial. C. E. Cochran and M. S. Towson. No. 1,369,165; Feb. 22; v. 283; p. 590.
- Truck, Industrial. W. Schroeder. No. 1,391,699; Sept. 27; v. 290; p. 659.
- Truck, Industrial. M. S. Towson and C. E. Cochran. No. 1,364,416; Jan. 4; v. 282; p. 72.
- Truck, Inking-roll. H. G. La Sor. No. 1,380,221; May 31; v. 286; p. 987.
- Truck, Inking-roll. L. J. Warner. No. 1,371,714; Mar. 15; v. 284; p. 484.
- Truck, Kneeling-. T. G. Ashbridge. No. 1,382,883; June 28; v. 287; p. 651.
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- Truck, Lifting-. H. E. Spencer. No. 1,389,225; Aug. 30; v. 289; p. 882.
- Truck, Lifting-. W. Stuebing, Jr. No. 1,381,515; June 14; v. 287; p. 277.
- Truck-loader. J. A. Cole. No. 1,392,916; Oct. 11.
- Truck-loading device. W. J. Conway. No. 1,393,345; Oct. 11.
- Truck, Locomotive trailer-. H. M. Pfager. No. 1,381,498; June 14; v. 287; p. 274.
- Truck, Locomotive trailer-. C. T. Westlake. No. 1,367,905; Feb. 8; v. 283; p. 258.
- Truck, Logging-. E. G. Chandler. No. 1,380,315; May 31; v. 286; p. 1004.
- Truck, Lumber-. G. E. Waters and G. M. Stevenson. No. 1,390,321; Sept. 13; v. 290; p. 245.
- Truck, Mining-machine. F. Cartlidge. No. 1,401,759; Dec. 27.
- Truck, Mining-machine. M. P. Holmes. No. 1,369,175; Feb. 22; v. 283; p. 591.
- Truck, Mining-machine. M. P. Holmes. No. 1,378,809; May 17; v. 286; p. 574.
- Truck, Mining-machine. N. D. Levin. No. 1,378,358; May 17; v. 286; p. 486.
- Truck, Mining-machine. N. D. Levin. No. 1,392,835; Oct. 4.
- Truck, Mining-machine. N. D. Levin. No. 1,392,836; Oct. 4.
- Truck, Monorail-. J. M. FitzGerald. No. 1,370,526; Mar. 8; v. 284; p. 191.
- Truck, Motor-. E. A. Hallam. No. 1,387,392; Aug. 9; v. 289; p. 393.
- Truck-pedestal. J. B. Weaver and P. Parke. No. 1,400,586; Dec. 20.
- Truck pedestal and journal-box, Railway-car-. D. W. Alderman. No. 1,365,142; Jan. 11; v. 282; p. 255.
- Truck-platform, Adjustable and removable. W. L. Stone. No. 1,382,328; June 21; v. 287; p. 491.
- Truck, Portable. A. G. Schpatz. No. 1,382,557; June 21; v. 287; p. 535.
- Truck, Railway-. S. B. Brillhart. No. 1,388,508; Aug. 23; v. 289; p. 686.
- Truck, Railway-car. H. E. Doerr. No. 1,390,344; Sept. 13; v. 290; p. 249.
- Truck, Railway-car. J. A. Lamont. No. 1,377,702; May 10; v. 286; p. 308.
- Truck, Railway-car. J. A. Lamont. No. 1,377,704; May 10; v. 286; p. 309.
- Truck, Reinforced. G. S. Wood. No. 1,385,514; July 26; v. 288; p. 673.
- Truck side frame. H. E. Doerr. No. 1,380,782; June 7; v. 287; p. 87.
- Truck side frame. G. G. Floyd. No. 1,364,491; Jan. 4; v. 282; p. 87.
- Truck side frame. G. G. Floyd. No. 1,378,848; May 24; v. 286; p. 654.
- Truck side frame. G. T. Johnson and H. W. Stertzbach. No. 1,378,794; May 17; v. 286; p. 571.
- Truck side frame. E. C. Washburn. No. 1,367,646; Feb. 8; v. 283; p. 209.
- Truck side frame and journal-box. J. A. Lamont. No. 1,382,201; June 21; v. 287; p. 466.
- Truck-side-frame arrangement. J. A. Lamont. No. 1,377,701; May 10; v. 286; p. 308.
- Truck-side-frame arrangement. W. S. Trowbridge. No. 1,390,311; Sept. 13; v. 290; p. 243.
- Truck side frames and journal-boxes, Means for connecting. G. G. Floyd and W. S. Trowbridge. No. 1,364,492; Jan. 4; v. 282; p. 87.
- Truck, Six-wheel car-. H. M. Pfager. No. 1,381,497; June 14; v. 287; p. 274.
- Truck, Six-wheel car-. C. T. Westlake. No. 1,367,904; Feb. 8; v. 283; p. 258.
- Truck, Six-wheel car-. C. T. Westlake. No. 1,371,587; Mar. 15; v. 284; p. 459.
- Truck, Six-wheel equalizer-. J. A. Lamont. No. 1,377,708; May 10; v. 286; p. 309.
- Truck, Six-wheel equalizing-. J. A. Lamont. No. 1,393,798; Oct. 18.
- Truck, Spring-. H. H. Harris. No. 1,393,360; Oct. 11.
- Truck-stakes, Snap-pocket for. T. S. Miller. No. 1,398,110; Nov. 22.
- Truck-supported knockdown circle-swing. W. A. Colgate. No. 1,400,802; Dec. 20.
- Truck, Tank-. B. E. Willett. No. 1,389,724; Sept. 6; v. 290; p. 33.
- Truck, Tongue-. C. A. A. Rand. No. 1,367,518; Feb. 1; v. 283; p. 126.
- Truck-top, Collapsible. L. S. Camp. No. 1,376,250; Apr. 26; v. 285; p. 638.
- Truck, Tractor-. V. E. Beagle. No. 1,364,233; Jan. 4; v. 282; p. 36.
- Truck, Trailer-. A. B. Cadman. No. 1,393,497; Oct. 11.
- Truck, Transfer-. H. A. Smith. No. 1,367,673; Feb. 8; v. 283; p. 214.
- Truck, Two-wheel swiveling and equalizing crane-. I. D. Thomas. No. 1,380,607; June 7; v. 287; p. 54.
- Truck-wheel shoe. W. Coatsworth. No. 1,398,890; Nov. 20.
- Truck-wheel, Steel. G. Walther and P. W. Klinger. No. 1,393,928; Oct. 18.
- Trucks, Accessory for motor-. C. S. Weimer. No. 1,401,843; Dec. 27.
- Trucks and the like, Elevator for automobile-. J. H. Stubbe. No. 1,390,837; Sept. 13; v. 290; p. 348.
- Trucks and tractors, Trailer-braking means for. S. B. Winn. No. 1,378,749; May 17; v. 286; p. 562.
- Trucks, Bag-holder for. E. E. Durkee. No. 1,390,346; Sept. 13; v. 290; p. 250.
- Trucks, Bed-hinge for automobile-. C. H. Cromwell. No. 1,396,678; Nov. 8.
- Trucks, Body for dumping-. J. P. Berg and J. M. Gleason. No. 1,395,028; Oct. 25.
- Trucks, Body for dumping-. G. G. Nelson. No. 1,373,628; Apr. 5; v. 285; p. 48.
- Trucks, Body-tilting mechanism for motor-. P. E. Barker. No. 1,386,390; Aug. 2; v. 289; p. 84.
- Trucks, Bolster construction for six-wheeled. J. C. Larsen. No. 1,380,569; June 7; v. 287; p. 46.
- Trucks, Brake mechanism for. C. L. Thompson. No. 1,389,917; Sept. 6; v. 290; p. 73.
- Trucks, Capstan device for motor-. H. G. Steinberg. No. 1,378,734; May 17; v. 286; p. 560.
- Trucks, Compressing springs to remove same from. J. Martel. No. 1,397,437; Nov. 15.
- Trucks, Controlling mechanism for motor-. W. C. Carr. No. 1,368,892; Feb. 15; v. 283; p. 498.
- Trucks, Coupling device for. F. L. Eidmann. No. 1,382,896; June 28; v. 287; p. 653.
- Trucks, &c., Drive for. H. L. Craven. No. 1,399,933; Dec. 13.
- Trucks, Driving-gear for automobile-. M. H. Fisher. No. 1,366,316; Jan. 18; v. 282; p. 523.
- Trucks, &c., Dumping-body for. G. S. Schlatter and P. Boeckly. No. 1,393,169; Oct. 11.
- Trucks, Dumping mechanism for. B. Taylor. No. 1,383,498; July 5; v. 288; p. 50.
- Trucks, Elevating mechanism for shop-. W. C. Dyer. No. 1,373,552; Apr. 5; v. 285; p. 34.
- Trucks, Fluid-check for lifting. W. B. Sigel. No. 1,401,111; Dec. 20.
- Trucks, Gate for dumping-. H. Mecking. No. 1,400,369; Dec. 13.
- Trucks, Hoisting attachment for auto-. J. J. V. and W. Seibert. No. 1,379,652; May 31; v. 286; p. 880.
- Trucks, Lifting-jack for. C. W. Ripsch, J. C. Dawley, and C. D. Derby. No. 1,388,836; Aug. 23; v. 289; p. 749.
- Trucks, Roller-bearing for railway-. L. K. Stafford. No. 1,374,775; Apr. 12; v. 285; p. 311.
- Trucks, Safety attachment for railway-car. C. L. Pittman. No. 1,393,313; Oct. 11.
- Trucks, Side frame for car-. W. Harris, Jr. No. 1,374,734; Apr. 12; v. 285; p. 803.
- Trucks, Steering mechanism for self-propelled crane-. H. H. Harris. No. 1,393,119; Oct. 11.
- Trucks, &c., Tilting body for. D. E. Le Force. No. 1,401,616; Dec. 27.
- Trucks, Tread-belt attachment for. R. H. Muscott. No. 1,397,139; Nov. 15.
- Trumpets, &c., Tuning-slide for. E. B. Steindorff. No. 1,382,688; June 28; v. 287; p. 614.
- Trunk, Automobile-. J. J. Parmenter. No. 1,401,183; Dec. 27.
- Trunk-bracket. E. B. Linnett. No. 1,368,737; Feb. 15; v. 283; p. 468.
- Trunk, Commercial-traveler's display-. T. Belair. No. 1,380,861; June 7; v. 287; p. 103.
- Trunk construction. D. B. Hart. No. 1,398,016; Nov. 22.
- Trunk, Convertible. W. Anderson. No. 1,374,346; Apr. 12; v. 285; p. 228.
- Trunk-dolly. M. O. Anthony and G. Lederman. No. 1,400,509; Dec. 20.



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- Trunk-drawers, Latching device for. E. W. Hawley. No. 1,386,451; Jan. 25; v. 282; p. 594.
- Trunk-edge construction, Reinforced. G. H. Wheary. No. 1,381,149; June 14; v. 287; p. 211.
- Trunk-fixture. G. H. Wheary. No. 1,401,219; Dec. 27.
- Trunk ironing-board. G. H. Wheary. No. 1,387,028; Aug. 9; v. 289; p. 283.
- Trunk laundry-bag and cover. G. H. Wheary. No. 1,378,924; May 24; v. 286; p. 669.
- Trunk-locking mechanism. B. M. Hamlin. No. 1,377,770; May 10; v. 286; p. 822.
- Trunk-locking mechanism. J. Staffa. No. 1,364,649; Jan. 4; v. 282; p. 116.
- Trunk-pad, Removable. G. H. Wheary. No. 1,381,952; June 21; v. 287; p. 421.
- Trunk-section cover and laundry-bag, Combination. G. H. Wheary. No. 1,387,221; Aug. 9; v. 289; p. 320.
- Trunk-strap and fastener therefor. H. S. Witham. No. 1,376,240; Apr. 26; v. 285; p. 686.
- Trunk, Wardrobe-. L. Diamond. No. 1,399,752; Dec. 13.
- Trunk, Wardrobe-. J. W. Espenlaub, W. H. Northall, and F. W. Goedeke. No. 1,371,612; Mar. 15; v. 284; p. 464.
- Trunk, Wardrobe-. N. Goldsmith. No. 1,373,189; Mar. 29; v. 284; p. 868.
- Trunk, Wardrobe-. G. F. Grube. No. 1,367,251; Feb. 1; v. 283; p. 73.
- Trunk, Wardrobe-. R. E. Phillips. No. 1,389,595; Sept. 6; v. 290; p. 7.
- Trunk, Wardrobe-. G. Sachnoff. No. 1,378,381; May 17; v. 286; p. 491.
- Trunk, Wardrobe-. G. Sachnoff. No. 1,380,024; May 31; v. 286; p. 950.
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- Trunks, Drawer-locking mechanism for. F. W. Meyer. No. 1,374,383; Apr. 12; v. 285; p. 235.
- Trunks, Dust-curtain for wardrobe-. B. M. Hamlin. No. 1,365,098; Jan. 11; v. 282; p. 246.
- Trunks, Extensible slide support for wardrobe-. A. Petrie. No. 1,370,667; Mar. 8; v. 284; p. 218.
- Trunks, Retainer-bar for. G. H. Wheary. No. 1,382,701; June 28; v. 287; p. 616.
- Trunking system, Automatic. F. J. Truby. (Reissue.) No. 15,228; Nov. 15.
- Truss. W. T. Bobo. No. 1,378,317; May 17; v. 286; p. 479.
- Truss. W. E. Cary. No. 1,364,611; Jan. 4; v. 282; p. 109.
- Truss. J. H. Downie. No. 1,375,448; Apr. 19; v. 285; p. 603.
- Truss. L. D. Gandion. No. 1,397,863; Nov. 22.
- Truss. H. H. Hittenberger. No. 1,395,675; Nov. 1.
- Truss. E. G. Hutterer. No. 1,381,123; June 14; v. 287; p. 206.
- Truss. N. Maggio. No. 1,386,886; Aug. 9; v. 289; p. 255.
- Truss. L. Rehthaler. No. 1,381,336; June 14; v. 287; p. 244.
- Truss. H. F. Schoenfeld. No. 1,389,600; Sept. 6; v. 290; p. 8.
- Truss. J. W. Wilson. No. 1,395,782; Nov. 1.
- Truss. H. N. Witt. No. 1,383,778; July 5; v. 288; p. 108.
- Truss, fixture. W. D. Patton. No. 1,389,378; Aug. 30; v. 289; p. 913.
- Truss-pad. J. N. McCay. No. 1,377,260; May 10; v. 286; p. 224.
- Truss, Surgical. B. P. Frieden. No. 1,387,774; Aug. 16; v. 289; p. 483.
- Truss, Surgical. A. M. Scarff. No. 1,393,722; Oct. 11.
- Truss unit, Experimental. H. E. Brown. No. 1,393,007; Oct. 11.
- Try-square handle. G. E. Macconnell. No. 1,369,038; Feb. 22; v. 283; p. 565.
- Tub: See—
- Bath-tub. Washing-machine tub.
- Tub and sink trap, Sanitary. H. J. McGuckin. No. 1,378,181; May 17; v. 286; p. 454.
- Tubs, &c., Support for. C. L. Hyde. No. 1,393,023; Oct. 11.
- Tube: See—
- Bourdon tube. Furnace-tube.
- Coin-tube. Hair-waving tube.
- Collapsible tube. Inner tube.
- Diving-tube. Laundry-tub.
- Drainage-tube. Molded tube.
- Embalmer's drainage-tube. Puncture-proof inner tube.
- Glove - finger - supporting tube. Tire-tube.
- Flexible tube. Tire inner tube.
- X-ray tube.
- Tube and bag making machine, Reinforced. K. Wandel. No. 1,382,579; June 21; v. 287; p. 539.
- Tube and container, Collapsible, dispensing-. B. E. D. Stafford. No. 1,382,140; June 7; v. 287; p. 455.
- Tube and container for the same, Collapsible. B. E. D. Stafford. No. 1,382,135; June 21; v. 287; p. 454.
- Tube and container for the same, Collapsible. B. E. D. Stafford. No. 1,382,137; June 21; v. 287; p. 455.
- Tube and container for the same, Collapsible. B. E. D. Stafford. No. 1,382,139; June 21; v. 287; p. 139.
- Tube and container therefor, Combined collapsible. B. E. D. Stafford. No. 1,382,136; June 21; v. 287; p. 454.
- Tube and end-plate connection, Boiler-. C. S. Coleman. No. 1,397,080; Nov. 15.
- Tube and making it, Reinforced. W. H. Kempton. No. 1,389,143; Aug. 30; v. 289; p. 866.
- Tube and making the same, Capillary. A. Roesch. No. 1,392,658; Oct. 4.
- Tube-bending apparatus. J. F. Gall. No. 1,379,858; May 31; v. 286; p. 918.
- Tube-bending apparatus. A. Vasselli. No. 1,370,075; Mar. 1; v. 284; p. 60.
- Tube-bending machine. E. Kamper. No. 1,376,441; May 3; v. 286; p. 12.
- Tube-cleaner. C. E. Chestnut and W. A. Henderson. No. 1,379,852; May 31; v. 286; p. 917.
- Tube-cleaner. A. F. Froussard. No. 1,367,314; Feb. 1; v. 283; p. 86.
- Tube-cleaners and other purposes, Cutter for. W. S. Elliott. No. 1,393,613; Oct. 11.
- Tube-cleaning apparatus. J. H. White and E. J. Franklin. No. 1,389,467; Aug. 30; v. 289; p. 930.
- Tube connecting and vulcanizing means. W. C. Ehrenfeld. No. 1,364,985; Jan. 11; v. 282; p. 225.
- Tube construction. J. F. Muldoon. No. 1,400,452; Dec. 13.
- Tube-cutting device. G. W. Simpson. No. 1,394,124; Oct. 18.
- Tube-cutting mechanism. W. S. Pritchard. No. 1,367,564; Feb. 8; v. 282; p. 193.
- Tube deflator, Inner-. G. S. Mellor. No. 1,396,646; Nov. 8.
- Tube-expander. P. Gavin. No. 1,393,620; Oct. 11.
- Tube-flaring apparatus. W. J. Rudolph. No. 1,372,197; Mar. 22; v. 284; p. 632.
- Tube holder and ejector. W. J. Rothrock. No. 1,399,580; Dec. 6.
- Tube holder, Collapsible-. J. H. Gibbs. No. 1,374,845; Apr. 12; v. 285; p. 325.
- Tube, Inner. W. P. Gordon and T. B. Jacocks. No. 1,392,826; Oct. 4.
- Tube, inner. H. C. Privett. No. 1,399,575; Dec. 6.
- Tube-machine. F. M. Joslin. No. 1,365,921; Jan. 18; v. 282; p. 447.
- Tube-machines, Heat-regulating attachment for. L. T. Frederick. No. 1,400,043; Dec. 13.
- Tube-making machine. F. H. Stolp. No. 1,388,903; Aug. 30; v. 289; p. 818.
- Tube-making machines, Guide for. R. O. Berg. No. 1,378,992; May 24; v. 286; p. 681.
- Tube-mill. R. C. Newhouse. No. 1,399,982; Dec. 13.
- Tube-mill liner. M. R. O'Shaughnessy. No. 1,371,929; Mar. 15; v. 284; p. 524.
- Tube, Molded. W. H. Kempton. No. 1,400,078; Dec. 13.
- Tubes, Mounting for vacuum-. R. M. Allen. No. 1,401,121; Dec. 27.
- Tube mounting, Vibration-proof vacuum-. W. L. Betts. No. 1,364,860; Jan. 11; v. 282; p. 201.
- Tube or box, Dispensing. B. E. D. Stafford. No. 1,382,138; June 21; v. 287; p. 455.
- Tube, Protected metal. J. F. Harthan and F. von Bichowsky. No. 1,368,395; Feb. 15; v. 283; p. 400.
- Tube return-bend, Double-. C. H. True. No. 1,373,465; Apr. 5; v. 285; p. 17.
- Tube-rolling mechanism. R. C. Stiefel. No. 1,368,413; Feb. 15; v. 283; p. 404.
- Tube-rolling mill. J. Reimann. No. 1,399,401; Dec. 6.
- Tube-splicing. M. A. Marquette. No. 1,385,220; July 19; v. 288; p. 537.
- Tubes and the like, Scaling thermometer-. L. F. Chaney. No. 1,391,878; Sept. 27; v. 290; p. 695.
- Tubes and tires, Mold for. I. S. Hoffmann. No. 1,378,678; May 17; v. 286; p. 549.
- Tubes, Apparatus for making. L. H. Brinkman, W. H. Fulton, and H. Shellmar. No. 1,383,187; June 28; v. 287; p. 708.
- Tubes, Apparatus for making lap-welded. J. H. Matheson. No. 1,367,413; Feb. 1; v. 283; p. 105.
- Tubes, Apparatus for making pneumatic inner. F. T. Roberts. No. 1,387,616; Aug. 16; v. 289; p. 452.
- Tubes, Apparatus for the manufacture of welded. D. W. Chisholm. No. 1,380,356; June 7; v. 287; p. 6.
- Tubes, Bridge for inner. G. W. Bulley. No. 1,385,774; July 26; v. 288; p. 726.
- Tubes, Clip for closing non-metallic collapsible. R. A. Bachmann. No. 1,370,264; Mar. 1; v. 284; p. 97.
- Tubes, Closing-guide for collapsible. G. H. Neidlinger. No. 1,383,141; June 28; v. 287; p. 700.
- Tubes, Container for collapsible. B. E. D. Stafford. No. 1,382,134; June 21; v. 287; p. 454.
- Tubes, Device for bending. P. Catucci and L. D. Nagel. No. 1,379,168; May 24; v. 286; p. 714.
- Tubes, Device for repairing inner. W. J. Raley. No. 1,391,240; Sept. 20; v. 290; p. 486.
- Tubes, Drawing collapsible. W. C. Huntoon. No. 1,376,374; Apr. 26; v. 285; p. 711.
- Tubes, Extruding collapsible. W. C. Huntoon. No. 1,376,373; Apr. 26; v. 285; p. 711.
- Tubes, Extruding collapsible. W. C. Huntoon. No. 1,376,376; Apr. 26; v. 285; p. 712.
- Tubes, Forming. H. C. Rees. No. 1,375,108; Apr. 19; v. 285; p. 438.
- Tubes, Forming metallic. E. Warner. No. 1,378,639; May 17; v. 286; p. 540.



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- Tubes, Machine for automatically attaching closing-clips for flexible. L. Marinsky. No. 1,378,596; May 17; v. 286; p. 533.
- Tubes, Machine for printing. W. F. Corson. No. 1,382,171; June 21; v. 287; p. 461.
- Tubes, Making. R. W. Lowe. No. 1,370,328; Mar. 1; v. 284; p. 109.
- Tubes, Making. R. Palmer. No. 1,394,935; Oct. 25.
- Tubes, Mandrel for making inner. F. M. Roessing. No. 1,396,145; Nov. 8.
- Tubes, Manufacture of lap-welded. J. H. Matheson. No. 1,367,412; Feb. 1; v. 283; p. 105.
- Tubes, Manufacture of welded iron and steel. D. W. Chisholm. No. 1,370,187; Mar. 1; v. 284; p. 82.
- Tubes, Method of and apparatus for bending. A. Vasselli. No. 1,370,074; Mar. 1; v. 284; p. 60.
- Tubes of felted fibrous material, Forming. W. R. Seigle. No. 1,399,087; Dec. 6.
- Tubes, Protective storage casing for inner. J. F. Lungren. No. 1,387,549; Aug. 16; v. 289; p. 439.
- Tubes, Squeezer for collapsible. T. H. Martin. No. 1,389,452; Aug. 30; v. 289; p. 927.
- Tubing, Bracket for angular-walled. W. B. Foster. No. 1,391,103; Sept. 20; v. 290; p. 465.
- Tubing, Casting metal. L. Cammen. No. 1,375,826; Apr. 26; v. 285; p. 606.
- Tubing, Catcher or holder. W. H. McKissick. No. 1,374,307; Apr. 12; v. 285; p. 220.
- Tubing-machine. V. Royle. No. 1,368,658; Feb. 15; v. 283; p. 452.
- Tubing-machines, Core-bridge for. V. Royle. No. 1,371,576; Mar. 15; v. 284; p. 458.
- Tubing, Making. G. A. Small. No. 1,387,199; Aug. 9; v. 289; p. 316.
- Tubing, Making seamless. P. H. Brace. No. 1,396,918; Nov. 15.
- Tubing of dissimilar materials, Means and method for connecting. J. P. Eastman. No. 1,398,634; Nov. 29.
- Tubing, Reinforced flexible. B. H. Rose. No. 1,371,981; Mar. 15; v. 284; p. 534.
- Tubular bodies, Coupling-sleeve for. W. G. Andersen and J. H. Brevig. No. 1,380,175; May 31; v. 286; p. 978.
- Tubular bodies, Machine for forming. E. Rendano. No. 1,394,116; Oct. 18.
- Tubular boiler. D. Macdonald. No. 1,365,713; Jan. 18; v. 282; p. 405.
- Tubular casings, Apparatus for fastening closure-supporting members to. A. G. F. Kurowski. No. 1,367,878; Feb. 8; v. 283; p. 254.
- Tubular joint. A. Vasselli. No. 1,379,141; May 24; v. 286; p. 710.
- Tubular-section coupling. J. Schneible. No. 1,366,955; Feb. 1; v. 283; p. 15.
- Tubular-spoke wheel. M. Lachman. No. 1,378,038; May 17; v. 286; p. 426.
- Tuft-yarn spring-clip. A. T. Thompson. No. 1,394,050; Oct. 18.
- Tufts and articles derived therefrom, Manufacturing. T. A. Bowers. No. 1,396,159; Nov. 8.
- Tufts, Machine for making and applying. C. F. Arnold. No. 1,390,267; Sept. 13; v. 290; p. 234.
- Tufting device. R. H. Valentine. No. 1,374,409; Apr. 12; v. 285; p. 240.
- Tug-adjuster. J. F. Glover. No. 1,369,650; Feb. 22; v. 283; p. 684.
- Tug, Harness. N. Patts. No. 1,399,869; Dec. 13.
- Tugs, Tow-hook for steam-. T. Nagel. No. 1,381,484; June 14; v. 287; p. 272.
- Tugs, Tow-hook for steam-. H. Spechtmeier. No. 1,377,159; May 3; v. 286; p. 148.
- Tumbler-lock, Adjustable. F. Clark. No. 1,366,161; Jan. 18; v. 282; p. 493.
- Tumbler-rinser. E. M. Adams. No. 1,367,342; Feb. 1; v. 283; p. 92.
- Tungstates, Obtaining pure. J. B. Ekeley and W. B. Stoddard. No. 1,399,705; Dec. 6.
- Tungsten and similar metals from their ores, Extracting. D. J. and J. E. Giles. No. 1,388,857; Aug. 30; v. 289; p. 808.
- Tungsten lakes, Producing. A. Linz. No. 1,378,882; May 24; v. 286; p. 660.
- Tungstic oxid, Producing. W. F. Bleecker. No. 1,399,245; Dec. 6.
- Tunnel-kiln. P. H. Dressler. No. 1,366,369; Jan. 25; v. 282; p. 576.
- Tunnel-kiln. P. Dressler. No. 1,384,434; July 12; v. 288; p. 293.
- Tunnel-kiln. A. C. Shepard. No. 1,366,424; Jan. 25; v. 282; p. 588.
- Tunnel-kiln air-heater. L. Wilputte. No. 1,389,408; Aug. 30; v. 289; p. 918.
- Tunnel-lining segments, Means for supporting. J. F. O'Rourke. No. 1,382,668; June 28; v. 287; p. 611.
- Tunnel structure, Concrete. F. J. West, M. Jackson, and H. T. Leader. No. 1,378,158; May 17; v. 286; p. 450.
- Tunnel-work, Method of and apparatus for. C. D. McArthur. No. 1,380,400; June 7; v. 287; p. 14.
- Tunnels, Method of an apparatus for widening. C. Brynoldt. No. 1,388,698; Aug. 23; v. 289; p. 722.
- Tunnels of underground third-rail systems, Device for cleaning the surface slots of. D. W. Peck. No. 1,375,064; Apr. 19; v. 285; p. 430.
- Tunneling-machine. L. W. Campbell. No. 1,371,224; Mar. 15; v. 284; p. 387.
- Turbine. H. Baudisch. No. 1,379,796; May 31; v. 286; p. 906.
- Turbine. H. M. Cake. No. 1,398,124; Nov. 22.
- Turbine. W. Chilton. No. 1,400,799; Dec. 20.
- Turbine. L. R. Guthrie. No. 1,383,937; July 5; v. 288; p. 140.
- Turbine. J. O. Heinze. No. 1,388,707; Aug. 23; v. 289; p. 724.
- Turbine. F. E. Kube. No. 1,394,772; Oct. 25.
- Turbine. F. L. McGahan. No. 1,372,305; Mar. 22; v. 284; p. 653.
- Turbine. E. Schneider. No. 1,371,327; Mar. 15; v. 284; p. 407.
- Turbine. J. T. Waugh. No. 1,391,434; Sept. 20; v. 290; p. 532.
- Turbine, Air-. F. A. Wheeler. No. 1,378,746; May 17; v. 286; p. 562.
- Turbine and governor, Steam-. C. W. Dake. No. 1,397,086; Nov. 15.
- Turbine and turbine-wheel. L. A. Darling. No. 1,401,321; Dec. 27.
- Turbine, Axial-flow steam-. K. Baumann. No. 1,386,983; Aug. 9; v. 289; p. 274.
- Turbine-blade attachment. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,387,304; Aug. 9; v. 289; p. 338.
- Turbine-blades and similar articles, Machine for finishing. W. H. Martin. No. 1,381,486; June 14; v. 287; p. 272.
- Turbine-blades, Setting. G. V. Sullivan. No. 1,371,768; Mar. 15; v. 284; p. 493.
- Turbine-driven separators, Pumping arrangement for. L. Rasch. No. 1,400,911; Dec. 20.
- Turbine-driven units and the like, Supporting means for. O. Junggren. No. 1,369,667; Feb. 22; v. 283; p. 687.
- Turbine, Elastic-fluid. O. Junggren. No. 1,366,667; Jan. 25; v. 282; p. 637.
- Turbine, Elastic-fluid. O. Junggren. No. 1,378,464; May 17; v. 286; p. 507.
- Turbine, Elastic-fluid. G. W. Pentheny and V. Petrovsky. No. 1,366,592; Jan. 25; v. 282; p. 622.
- Turbine, Elastic-fluid. C. Steenstrup. No. 1,373,919; Apr. 5; v. 285; p. 105.
- Turbine, Elastic-fluid. C. Steenstrup. No. 1,378,493; May 17; v. 286; p. 513.
- Turbine, Elastic-fluid. O. A. Wiberg. No. 1,378,506; May 17; v. 286; p. 515.
- Turbine-engine, Reversible. J. Showalterbaugh. No. 1,384,976; July 19; v. 288; p. 486.
- Turbine-gate. J. H. Felthousen. No. 1,366,252; Jan. 18; v. 282; p. 511.
- Turbine installation, Condensing-steam-. K. Baumann and A. E. L. Scanes. No. 1,372,929; Mar. 29; v. 284; p. 817.
- Turbine installation, Condensing-steam-. K. Baumann and A. E. L. Scanes. No. 1,372,930; Mar. 29; v. 284; p. 817.
- Turbine, Internal-combustion. R. Pazos-Martinez. No. 1,387,166; Aug. 9; v. 289; p. 310.
- Turbine-machine. V. Kaplan. No. 1,399,059; Dec. 6.
- Turbine, Radial-flow steam-. K. Baumann. No. 1,375,076; Apr. 19; v. 285; p. 432.
- Turbine-rotors, Means for cooling. A. C. E. Rateau. No. 1,368,751; Feb. 15; v. 283; p. 471.
- Turbine, Steam-. K. Baumann. No. 1,373,289; Mar. 29; v. 284; p. 888.
- Turbine, Steam-. K. Baumann. No. 1,375,075; Apr. 19; v. 285; p. 432.
- Turbine, Steam-. K. Baumann. (Reissue.) No. 15,092; Apr. 26; v. 285; p. 714.
- Turbine, Steam-. C. W. Dake. No. 1,377,755; May 10; v. 286; p. 319.
- Turbine, Steam-. J. F. Grey. No. 1,393,114; Oct. 11.
- Turbine, Steam-. H. L. Guy. No. 1,369,023; Feb. 22; v. 283; p. 562.
- Turbine, Steam-. H. L. Guy. No. 1,379,258; May 24; v. 286; p. 731.
- Turbine, Steam-. C. V. Kerr. No. 1,398,461; Nov. 29.
- Turbine, Steam-. C. V. Kerr. No. 1,399,215; Dec. 6.
- Turbine, Steam-. E. Schneider. No. 1,391,698; Sept. 27; v. 290; p. 659.
- Turbine, Steam-. L. E. Whiton and H. B. Lee. No. 1,384,286; July 12; v. 288; p. 262.
- Turbine system, Geared-. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,377,850; May 10; v. 286; p. 338.
- Turbine system, Geared-. C. A. Parsons, S. S. Cook, and L. M. Douglas. No. 1,377,851; May 10; v. 286; p. 338.
- Turbine system, Geared. C. A. Parsons, S. S. Cook, and L. M. Douglas. Nos. 1,393,391-3; Oct. 11.
- Turbine, Water-. M. Haerberlein. No. 1,396,327; Nov. 8.
- Turbines, Construction of. P. Spiess. No. 1,390,733; Sept. 13; v. 290; p. 327.
- Turbines, Hooping-band for the movable blades of steam or gas. E. Schneider. No. 1,371,328; Mar. 15; v. 284; p. 408.
- Turbines, Manufacturing nozzle-diaphragms for elastic-fluid. C. Steenstrup. No. 1,390,835; Sept. 13; v. 290; p. 348.
- Turbines, Nozzle control for. W. J. Irwin. (Reissue.) No. 15,084; Apr. 12; v. 285; p. 335.



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- Turbines, turbine driven-sets, &c., Supporting means for. O. Junggren. No. 1,369,668; Feb. 22; v. 283; p. 688.
- Turbo-blower assembly. E. H. Sherbondy. No. 1,400,322; Dec. 13.
- Turbo-compressor casing. E. H. Sherbondy. No. 1,400,323; Dec. 13.
- Turbo-compressors, Constant-volume regulator for. P. Hoffman. No. 1,383,258; June 28; v. 287; p. 722.
- Turbo-mechanical-machine plants, Regulating mechanism for. O. A. Wiberg and G. Karlsson. No. 1,387,915; Aug. 16; v. 289; p. 511.
- Turbing-needle. C. F. Christopher. No. 1,368,605; Feb. 15; v. 283; p. 442.
- Turnbuckle. S. Ferragamo. No. 1,393,614; Oct. 11.
- Turnbuckle. R. D. Stevenson. No. 1,374,963; Apr. 19; v. 285; p. 409.
- Turnbuckle-wrench. C. J. Johnson. No. 1,397,810; Nov. 22.
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- Turnbutton-fastener. D. Bourque. No. 1,385,039; July 19; v. 288; p. 499.
- Turner, Sheet. G. B. Semley. No. 1,393,400; Oct. 11.
- Turning and beading machine. P. R. Glass. No. 1,389,643; Sept. 6; v. 290; p. 17.
- Turning-machine, Automatic. F. H. Bancroft. No. 1,400,013; Dec. 13.
- Turning-machine, Channel-flap. E. Erickson. No. 1,381,174; June 14; v. 287; p. 215.
- Turning-plate. G. Engel, Sr. No. 1,386,999; Aug. 9; v. 289; p. 278.
- Turning-tool. F. K. Lawrence. No. 1,395,436; Nov. 1.
- Turnover-machine. L. Goldstein. No. 1,381,820; June 14; v. 287; p. 336.
- Turnstile. C. D. Trubenbach. No. 1,385,971; July 26; v. 288; p. 764.
- Turnstile. C. D. Trubenbach and D. B. Sanneman. No. 1,382,575; June 21; v. 287; p. 538.
- Turntable. C. J. Hug. No. 1,367,602; Feb. 8; v. 283; p. 200.
- Turntable. M. H. Rice. No. 1,384,569; July 12; v. 288; p. 321.
- Turntable, Automatic. E. J. Sanders and J. W. Morrison. No. 1,367,507; Feb. 1; v. 283; p. 124.
- Turntables, Truck construction for. M. G. Hilpert. No. 1,386,060; Aug. 2; v. 289; p. 20.
- Turret-lathe. N. F. Fretter. No. 1,398,225; Nov. 29.
- Turret-locking mechanism. T. M. Kane. No. 1,370,821; Mar. 8; v. 284; p. 248.
- Tweezers. E. H. Metcalf. No. 1,380,232; May 31; v. 286; p. 989.
- Twine-cutter. A. N. Gregory. No. 1,379,864; May 31; v. 286; p. 919.
- Twine-cutter. O. L. Raymer. No. 1,365,952; Jan. 18; v. 282; p. 453.
- Twine-cutter, Hand. H. Schwarting. No. 1,398,919; Nov. 29.
- Twine-holder. W. and W. A. Crabtree. No. 1,389,863; Sept. 6; v. 290; p. 61.
- Twine-holder. H. F. Fleming. No. 1,364,987; Jan. 11; v. 282; p. 22.
- Twine-holder. A. E. Osterberg and G. Oberg. No. 1,373,757; Apr. 5; v. 285; p. 72.
- Twine-holder. W. J. Stott. No. 1,398,347; Nov. 29.
- Twine-holder. L. Wright. No. 1,378,752; May 17; v. 286; p. 563.
- Twine-holder and advertising device, Combined. B. W. Smith. No. 1,366,327; Jan. 18; v. 282; p. 525.
- Twine-holder and advertising device, Combined. B. W. Smith. No. 1,366,328; Jan. 18; v. 282; p. 526.
- Twist-drill. N. E. Woods. No. 1,384,733; July 12; v. 288; p. 355.
- Twister-spindle separator. A. E. Blakeley. No. 1,373,390; Mar. 29; v. 284; p. 907.
- Twisting and doubling machine. T. A. and H. A. Boyd. No. 1,384,041; July 12; v. 288; p. 212.
- Twisting-machine. W. Scholes. No. 1,391,512; Sept. 20; v. 290; p. 548.
- Twisting-machine. C. P. Wineman. No. 1,379,071; May 24; v. 286; p. 695.
- Twisting-machine for yarns, cottons, &c. A. A. Bowerman. No. 1,386,233; Aug. 2; v. 289; p. 54.
- Twisting-machines, Stop motion for. A. B. Belhumeur. No. 1,385,857; July 26; v. 288; p. 742.
- Twisting-tool. J. Schneider. No. 1,395,152; Oct. 25.
- Two-cycle engine. W. G. Gernandt. No. 1,385,250; July 19; v. 288; p. 543.
- Two-cycle explosive-engine. H. F. Holmquest. No. 1,370,586; Mar. 8; v. 284; p. 203.
- Two-cycle internal-combustion engine. W. R. Fasey. No. 1,374,915; Apr. 19; v. 285; p. 400.
- Two-cycle internal-combustion engine. G. J. Gall. No. 1,367,037; Feb. 1; v. 283; p. 31.
- Two-cycle motor. E. C. Panning and F. A. Isern. No. 1,382,539; June 21; v. 287; p. 531.
- Two-cycle upright gas-engine. C. E. Blser. No. 1,383,518; July 5; v. 288; p. 53.
- Two-in-one garbage-can. V. G. Fernandez. No. 1,382,634; June 28; v. 287; p. 603.
- Two-stroke-cycle engine. C. Rudqvist. No. 1,392,359; Oct. 4.
- Twyer. W. E. Frawley, Jr. No. 1,390,694; Sept. 13; v. 290; p. 320.
- Twyer-irons, Device for cooling. S. Mathews. No. 1,365,333; Jan. 11; v. 282; p. 292.
- Tying device. G. A. Ford. No. 1,387,699; Aug. 16; v. 289; p. 468.
- Tympan-gage, Automatic. J. S. Merkins. No. 1,399,141; Dec. 6.
- Type and type-holders, Making. C. A. Neyland. Nos. 1,393,307-8; Oct. 11.
- Type-bar machines, Ejector control for. J. U. Meistrell. No. 1,382,110; June 21; v. 287; p. 450.
- Type-bar mechanism. H. Etheridge. No. 1,380,788; June 7; v. 287; p. 89.
- Type-bars, Machine for grooving. A. W. Erickson. No. 1,366,313; Jan. 18; v. 282; p. 522.
- Type-carrier. B. L. Lutz. No. 1,396,938; Nov. 15.
- Type-casting machine. K. Sugimoto. No. 1,364,593; Jan. 4; v. 282; p. 105.
- Type-composing machine. W. Chipperfield. No. 1,367,302; Feb. 1; v. 283; p. 83.
- Type-composing machine. W. Chipperfield. No. 1,369,914; Mar. 1; v. 284; p. 30.
- Type-composing machine, Manually-operated. W. Chipperfield. No. 1,368,784; Feb. 15; v. 283; p. 477.
- Type for printing tabular forms. H. W. Bailey. No. 1,373,159; Mar. 29; v. 284; p. 862.
- Type fractions and use. C. C. Marder. No. 1,375,307; Apr. 19; v. 285; p. 476.
- Type-making machine. W. Armstrong. No. 1,397,714; Nov. 22.
- Type-metal-slug-casting machine, Apparatus for cooling molds of. W. E. Borst and C. C. Gilleo. No. 1,389,573; Sept. 6; v. 290; p. 61.
- Type, Self-cleaning. E. R. Hobbs. No. 1,375,153; Apr. 19; v. 285; p. 447.
- Type-wheel. F. A. Putnam and C. F. Robbins. No. 1,376,830; May 3; v. 286; p. 85.
- Typebar-action. C. Spiro. No. 1,391,020; Sept. 20; v. 290; p. 448.
- Typecasting and line-forming machine. E. E. Wilson. No. 1,370,676; Mar. 8; v. 284; p. 220.
- Typewriter. E. Berneburg. No. 1,393,194; Oct. 11.
- Typewriter. A. Block. No. 1,389,237; Aug. 30; v. 289; p. 884.
- Typewriter. J. W. Buchanan. No. 1,389,120; Aug. 30; v. 289; p. 861.
- Typewriter. M. Charles. No. 1,381,798; June 14; v. 287; p. 332.
- Typewriter. W. H. Edwards. No. 1,387,842; Aug. 16; v. 289; p. 498.
- Typewriter. A. King. No. 1,396,329; Nov. 8.
- Typewriter. P. Krumscheld. No. 1,371,694; Mar. 15; v. 284; p. 480.
- Typewriter. A. B. Parker. No. 1,370,992; Mar. 8; v. 284; p. 280.
- Typewriter. R. Reynolds. No. 1,383,757; July 5; v. 288; p. 104.
- Typewriter. L. R. Roberts. No. 1,388,203; Aug. 23; v. 289; p. 624.
- Typewriter. F. Satterstrom. No. 1,367,991; Feb. 8; v. 283; p. 274.
- Typewriter. A. van der Schaaff. No. 1,368,865; Feb. 15; v. 283; p. 493.
- Typewriter. C. Spiro. No. 1,389,911; Sept. 6; v. 290; p. 71.
- Typewriter accent-key attachment. A. Hering. No. 1,365,993; Jan. 18; v. 282; p. 460.
- Typewriter accent-key attachment. A. Hering. No. 1,365,994; Jan. 18; v. 282; p. 460.
- Typewriter and computing machine, Combined. H. L. Pitman. No. 1,369,189; Feb. 22; v. 283; p. 594.
- Typewriter and computing-machine, Combined. H. L. Pitman. No. 1,393,244; Oct. 11.
- Typewriter attachment. E. E. Briggs. No. 1,389,419; Aug. 30; v. 289; p. 921.
- Typewriter attachment. G. Castellanos. No. 1,391,244; Sept. 20; v. 290; p. 494.
- Typewriter attachment. H. N. Dickson. No. 1,364,734; Jan. 4; v. 282; p. 132.
- Typewriter attachment. A. R. McNeal. No. 1,368,814; Feb. 15; v. 283; p. 482.
- Typewriter attachment. W. D. Reid. No. 1,364,806; Jan. 4; v. 282; p. 146.
- Typewriter cabinet-desk. M. F. Sitta. No. 1,388,072; Aug. 16; v. 289; p. 542.
- Typewriter-desk. M. E. Beard. No. 1,376,312; Apr. 26; v. 285; p. 700.
- Typewriter-desk. F. M. Clough. No. 1,392,744; Oct. 4.
- Typewriter-desk. M. F. Sitta. No. 1,370,373; Mar. 1; v. 284; p. 117.
- Typewriter-desk, Combined office and drophead. G. F. Albrow. No. 1,398,618; Nov. 29.
- Typewriter device. M. Edmundson. No. 1,382,417; June 21; v. 287; p. 508.
- Typewriter-eraser. H. M. Cutshaw. No. 1,376,322; Apr. 26; v. 285; p. 702.
- Typewriter, Incased collapsible. W. P. Kidder. No. 1,383,638; July 5; v. 288; p. 79.
- Typewriter-keyboard device, Educational. H. Bates. No. 1,385,356; July 26; v. 288; p. 640.



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- Typewriter-keys, Cushion-cap for. W. C. Belknap. No. 1,364,828; Jan. 4; v. 282; p. 150.
- Typewriter-levers, &c., Mechanism for automatically operating. J. H. Pillings. No. 1,399,365; Dec. 6.
- Typewriter mechanism. O. A. Hokanson. No. 1,385,549; July 26; v. 288; p. 680.
- Typewriter. Multiple-impression. P. P. Bourquin. No. 1,395,994; Nov. 1.
- Typewriter-platen, Noise-reducing. W. R. Mulock. No. 1,382,218; June 21; v. 287; p. 469.
- Typewriter-ribbon. H. S. Stark. No. 1,392,458; Oct. 4.
- Typewriter-ribbon, Bicolored. S. A. Neidich. No. 1,364,789; Jan. 4; v. 282; p. 143.
- Typewriter-ribbon, making the same, Bicolored. S. A. Neidich. No. 1,364,788; Jan. 4; v. 282; p. 143.
- Typewriter-ribbon-movement. J. A. Hagerstrom. No. 1,397,613; Nov. 22.
- Typewriter-ribbons, Inker for. W. R. Ormes. No. 1,391,139; Sept. 20; v. 290; p. 473.
- Typewriter type-bars and other devices, Electrical actuating means for. F. Satterstrom. Nos. 1,395,599-600; Nov. 1.
- Typewriter-type, Reversible. A. Hering. No. 1,401,471; Dec. 27.
- Typewriter with detachable platen-carriage. H. Etheridge. No. 1,382,349; June 21; v. 287; p. 495.
- Typewriters, Addressing attachment for. W. G. Crocker. No. 1,388,099; Aug. 16; v. 289; p. 547.
- Typewriters, Attachment for. H. L. Hedrick and H. C. Chantler. No. 1,381,920; June 21; v. 287; p. 415.
- Typewriters, Attachment for. E. H. Reynolds and R. E. Bleazard. No. 1,397,454; Nov. 15.
- Typewriters, Card-positioning attachment for. W. P. De Saussure, Jr. No. 1,376,683; May 3; v. 286; p. 56.
- Typewriters, Cardholding clip for. W. A. Burton. No. 1,400,865; Dec. 20.
- Typewriters, Carriage-return mechanism for. W. L. Meuschke. No. 1,396,865; Nov. 15.
- Typewriters, Combined paper feed and finger releasing mechanism for. M. Garbell. No. 1,374,999; Apr. 19; v. 285; p. 416.
- Typewriters, Manifold attachment for. F. G. White. No. 1,399,812; Dec. 13.
- Typewriters, Multiple-ply web for. J. A. B. Smith. No. 1,400,572; Dec. 20.
- Typewriters, Multiple-ply web for. J. A. B. Smith. No. 1,400,631; Dec. 20.
- Typewriters, Paper-feeding apparatus for. W. C. Avery. No. 1,373,700; Apr. 5; v. 285; p. 62.
- Typewriters, Ribbon-spool for. H. A. Foothorap. No. 1,378,672; May 17; v. 286; p. 548.
- Typewriters, Ribbon-spool for. O. A. Hokanson. No. 1,366,182; Jan. 18; v. 282; p. 496.
- Typewriters, Tabulating attachment for. M. Garrett. No. 1,382,971; June 28; v. 287; p. 668.
- Typewriters, Tabulator-stop for. W. Molle. No. 1,400,492; Dec. 13.
- Typewriting and calculating machine. O. O. Martin. No. 1,378,047; May 17; v. 286; p. 428.
- Typewriting and computing machine, Combined. F. A. Hart. No. 1,370,312; Mar. 1; v. 284; p. 106.
- Typewriting and computing machine, Combined. F. A. Hart. No. 1,382,286; June 21; v. 287; p. 483.
- Typewriting and computing machine, Combined. F. A. Hart. No. 1,387,711; Aug. 16; v. 289; p. 471.
- Typewriting and computing machine, Combined. F. A. Hart. No. 1,388,257; Aug. 23; v. 289; p. 635.
- Typewriting and computing machine, Combined. H. E. K'Burg. No. 1,370,022; Mar. 1; v. 284; p. 51.
- Typewriting and computing machine, Combined. C. E. Norin. No. 1,370,475; Mar. 1; v. 284; p. 137.
- Typewriting and computing machine, Combined. H. L. Pitman. No. 1,386,653; Aug. 9; v. 289; p. 207.
- Typewriting and computing machine, Combined. H. Resch. No. 1,370,046; Mar. 1; v. 284; p. 55.
- Typewriting and computing machine, Combined. H. L. Pitman. No. 1,370,860; Mar. 1; v. 284; p. 115.
- Typewriting and computing machine, Combined. B. C. Stickney. No. 1,369,141; Feb. 22; v. 283; p. 585.
- Typewriting and computing machine, Combined. B. C. Stickney. No. 1,370,238; Mar. 1; v. 284; p. 92.
- Typewriting and computing machine, Combined. B. C. Stickney. No. 1,370,239; Mar. 1; v. 284; p. 92.
- Typewriting and computing machine, Combined. B. C. Stickney. No. 1,396,348; Nov. 8.
- Typewriting and computing machine, Combined. E. Thomas. No. 1,388,218; Aug. 23; v. 289; p. 627.
- Typewriting and computing machine, Combined. H. H. Vickers. No. 1,400,842; Dec. 20.
- Typewriting and computing machine, Combined. J. Waldheim. No. 1,369,065; Feb. 22; v. 283; p. 570.
- Typewriting and computing machine, Combined. J. Waldheim. No. 1,374,969; Apr. 19; v. 285; p. 410.
- Typewriting and computing machine, Combined. J. Waldheim. No. 1,393,187; Oct. 11.
- Typewriting and computing machine, Combined. L. A. Wernery. No. 1,389,232; Aug. 30; v. 289; p. 883.
- Typewriting and computing machine, Combined. H. Whitling. No. 1,389,234; Aug. 30; v. 289; p. 884.
- Typewriting-machine. F. H. Armstrong. No. 1,375,844; Apr. 19; v. 285; p. 483.
- Typewriting-machine. F. H. Armstrong. No. 1,387,959; Aug. 16; v. 289; p. 520.
- Typewriting-machine. F. H. Armstrong. No. 1,387,960; Aug. 16; v. 289; p. 520.
- Typewriting-machine. G. Bacsanyi. No. 1,388,320; Aug. 23; v. 289; p. 649.
- Typewriting-machine. W. E. Barnard. No. 1,386,391; Aug. 2; v. 289; p. 84.
- Typewriting-machine. H. Bates. No. 1,368,599; Feb. 15; v. 283; p. 441.
- Typewriting-machine. H. Bates. No. 1,370,508; Mar. 8; v. 284; p. 187.
- Typewriting-machine. J. W. Bond. No. 1,364,974; Jan. 11; v. 282; p. 223.
- Typewriting-machine. L. B. Bridges. No. 1,375,358; Apr. 19; v. 285; p. 485.
- Typewriting-machine. H. E. Bridgwater. No. 1,375,772; Apr. 26; v. 285; p. 596.
- Typewriting-machine. H. E. Bridgwater. No. 1,388,164; Aug. 23; v. 289; p. 616.
- Typewriting-machine. A. J. Briggs. No. 1,368,017; Feb. 8; v. 283; p. 279.
- Typewriting-machine. G. W. Campbell. No. 1,370,281; Mar. 1; v. 284; p. 100.
- Typewriting-machine. G. W. Campbell. No. 1,370,282; Mar. 1; v. 284; p. 100.
- Typewriting-machine. D. A. Carpenter. No. 1,386,090; Aug. 2; v. 289; p. 26.
- Typewriting-machine. T. M. Copeland. No. 1,376,922; May 3; v. 286; p. 103.
- Typewriting-machine. L. P. Diss. No. 1,383,699; July 5; v. 288; p. 92.
- Typewriting-machine. J. C. Doane. No. 1,384,122; July 12; v. 288; p. 228.
- Typewriting-machine. J. C. Doane. No. 1,384,123; July 12; v. 288; p. 228.
- Typewriting-machine. E. S. Dodge. No. 1,371,230; Mar. 15; v. 284; p. 388.
- Typewriting-machine. J. Duckstine. No. 1,368,491; Feb. 15; v. 283; p. 420.
- Typewriting-machine. J. Duckstine. No. 1,368,492; Feb. 15; v. 283; p. 420.
- Typewriting-machine. A. J. Dudley. No. 1,394,614; Oct. 25.
- Typewriting-machine. A. B. Ely. Nos. 1,398,321-2; Nov. 29.
- Typewriting-machine. J. Felbel. No. 1,392,408; Oct. 4.
- Typewriting-machine. O. Fischer. No. 1,392,135; Sept. 27; v. 290; p. 747.
- Typewriting-machine. H. A. Foothorap. No. 1,383,096; v. 287; p. 691.
- Typewriting-machine. G. H. Foster. No. 1,368,620; Feb. 15; v. 283; p. 445.
- Typewriting-machine. R. F. Gordon. No. 1,391,680; Sept. 27; v. 290; p. 655.
- Typewriting-machine. W. L. Gumprecht. No. 1,388,253; Aug. 23; v. 289; p. 635.
- Typewriting-machine. E. L. Harmon. No. 1,387,979; Aug. 16; v. 289; p. 524.
- Typewriting-machine. W. G. Hausman. No. 1,390,955; Sept. 13; v. 290; p. 373.
- Typewriting-machine. W. F. Helmond. No. 1,364,551; Jan. 4; v. 282; p. 98.
- Typewriting-machine. W. F. Helmond. No. 1,392,940; Oct. 11.
- Typewriting-machine. W. F. Helmond. Nos. 1,399,480-1; Dec. 6.
- Typewriting-machine. W. F. Helmond. No. 1,401,103; Dec. 20.
- Typewriting-machine. H. K. Henry. No. 1,387,543; Aug. 16; v. 289; p. 437.
- Typewriting-machine. E. B. Hess. No. 1,390,708; Sept. 13; v. 290; p. 322.
- Typewriting-machine. F. W. Hillard. (Reissue.) No. 15,209; Oct. 18.
- Typewriting-machine. F. Hoffmann. No. 1,370,648; Mar. 8; v. 284; p. 215.
- Typewriting-machine. J. B. Holden. No. 1,376,879; May 3; v. 286; p. 95.
- Typewriting-machine. J. B. Holden. No. 1,381,994; June 21; v. 287; p. 428.
- Typewriting-machine. J. B. Holden. No. 1,386,111; Aug. 2; v. 289; p. 30.
- Typewriting-machine. J. B. Holden. No. 1,386,256; Aug. 2; v. 289; p. 59.
- Typewriting-machine. J. B. Holden. No. 1,397,166; Nov. 15.
- Typewriting-machine. H. N. Josleyn. No. 1,367,145; Feb. 1; v. 283; p. 52.
- Typewriting-machine. A. G. F. Kurowski. No. 1,367,784; Feb. 8; v. 283; p. 235.
- Typewriting-machine. A. G. F. Kurowski. No. 1,370,322; Mar. 1; v. 284; p. 108.
- Typewriting-machine. A. G. F. Kurowski. No. 1,370,323; Mar. 1; v. 284; p. 108.
- Typewriting-machine. A. G. F. Kurowski. No. 1,371,909; Mar. 15; v. 284; p. 520.
- Typewriting-machine. A. G. F. Kurowski. No. 1,383,643; July 5; v. 288; p. 79.
- Typewriting-machine. A. G. F. Kurowski. No. 1,384,532; July 12; v. 288; p. 313.



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- Typewriting-machine. A. G. F. Kurowski. No. 1,386,636; Aug. 9; v. 289; p. 204.
- Typewriting-machine. A. G. F. Kurowski. No. 1,388,957; Aug. 30; v. 289; p. 828.
- Typewriting-machine. A. G. F. Kurowski. No. 1,389,949; Sept. 6; v. 290; p. 79.
- Typewriting-machine. A. G. F. Kurowski. No. 1,395,503; Nov. 1.
- Typewriting-machine. E. G. Latta. No. 1,382,789; June 28; v. 287; p. 633.
- Typewriting-machine. E. G. Latta. No. 1,382,790; June 28; v. 287; p. 634.
- Typewriting-machine. E. G. Latta. No. 1,382,791; June 28; v. 287; p. 634.
- Typewriting-machine. H. N. McKay. No. 1,394,632; Oct. 25.
- Typewriting-machine. C. E. McNamara. No. 1,395,049; Oct. 25.
- Typewriting-machine. E. H. Peterson. No. 1,397,544; Nov. 22.
- Typewriting-machine. H. H. Riggs. No. 1,384,407; July 12; v. 288; p. 287.
- Typewriting-machine. W. A. Schmidt. No. 1,388,207; Aug. 23; v. 289; p. 625.
- Typewriting-machine. G. A. Selb. No. 1,375,113; Apr. 19; v. 285; p. 439.
- Typewriting-machine. G. A. Selb. No. 1,378,486; May 17; v. 286; p. 511.
- Typewriting-machine. G. A. Selb. No. 1,391,798; Sept. 27; v. 290; p. 678.
- Typewriting-machine. G. A. Selb. No. 1,392,362; Oct. 4.
- Typewriting-machine. J. J. Sheehy. No. 1,380,931; June 7; v. 287; p. 116.
- Typewriting-machine. J. E. Simpson. No. 1,365,737; Jan. 18; v. 282; p. 410.
- Typewriting-machine. J. A. B. Smith. No. 1,364,819; Jan. 4; v. 282; p. 149.
- Typewriting-machine. J. A. B. Smith. No. 1,368,299; Feb. 15; v. 283; p. 382.
- Typewriting-machine. J. A. B. Smith. No. 1,377,446; May 10; v. 286; p. 261.
- Typewriting-machine. J. A. B. Smith. No. 1,378,627; May 17; v. 286; p. 539.
- Typewriting-machine. J. A. B. Smith. No. 1,386,969; Aug. 9; v. 289; p. 272.
- Typewriting-machine. J. A. B. Smith. No. 1,393,177; Oct. 11.
- Typewriting-machine. A. W. Smith. No. 1,372,568; Mar. 22; v. 284; p. 703.
- Typewriting-machine. A. W. Smith. No. 1,388,208; Aug. 23; v. 289; p. 625.
- Typewriting-machine. A. W. Smith. No. 1,388,209; Aug. 23; v. 289; p. 626.
- Typewriting-machine. B. C. Stickney. No. 1,364,651; Jan. 4; v. 282; p. 116.
- Typewriting-machine. B. C. Stickney. No. 1,370,236; Mar. 1; v. 284; p. 91.
- Typewriting-machine. B. C. Stickney. No. 1,370,237; Mar. 1; v. 283; p. 44.
- Typewriting-machine. B. C. Stickney. No. 1,381,895; June 14; v. 287; p. 351.
- Typewriting-machine. B. C. Stickney. No. 1,386,379; Aug. 2; v. 289; p. 82.
- Typewriting-machine. B. C. Stickney. No. 1,392,975; Oct. 11.
- Typewriting-machine. B. C. Stickney. No. 1,395,458; Nov. 1.
- Typewriting-machine. B. C. Stickney. No. 1,398,048; Nov. 22.
- Typewriting-machine. E. B. Stuart. No. 1,366,137; Jan. 18; v. 282; p. 488.
- Typewriting-machine. E. Thomas. No. 1,370,243; Mar. 1; v. 284; p. 93.
- Typewriting-machine. R. W. Uhlig. No. 1,384,788; July 19; v. 288; p. 447.
- Typewriting-machine. J. Waldheim. No. 1,369,066; Feb. 22; v. 283; p. 571.
- Typewriting-machine. J. Waldheim. No. 1,380,692; June 7; v. 287; p. 70.
- Typewriting-machine. J. Waldheim. No. 1,386,387; Aug. 2; v. 289; p. 83.
- Typewriting-machine. J. Waldheim. No. 1,388,392; Aug. 23; v. 289; p. 663.
- Typewriting-machine. J. Waldheim. No. 1,389,718; Sept. 6; v. 290; p. 32.
- Typewriting-machine. J. Waldheim. No. 1,400,702; Dec. 20.
- Typewriting-machine. J. A. Wherry. No. 1,388,987; Aug. 30; v. 289; p. 835.
- Typewriting-machine. O. Woodward. No. 1,375,764; Apr. 26; v. 285; p. 594.
- Typewriting-machine. O. Woodward. No. 1,370,772; Mar. 8; v. 284; p. 239.
- Typewriting-machine. O. Woodward. No. 1,371,591; Mar. 15; v. 284; p. 460.
- Typewriting-machine. O. Woodward. No. 1,380,455; June 7; v. 287; p. 25.
- Typewriting-machine. O. Woodward. No. 1,391,155; Sept. 20; v. 290; p. 476.
- Typewriting-machine. O. Woodward. No. 1,394,599; Oct. 25.
- Typewriting-machine and supports therefor. J. A. B. Smith. No. 1,380,746; June 7; v. 287; p. 80.
- Typewriting-machine, Folding. P. de Clamecy. No. 1,387,362; Aug. 9; v. 289; p. 350.
- Typewriting-machines, Calculating attachment for. F. J. Tillman. No. 1,379,322; May 24; v. 286; p. 744.
- Typewriting-machines, Forming and aligning type on the type-bars of. F. and H., Jr., Gansert. No. 1,380,709; June 7; v. 287; p. 73.
- Typewriting-machines, Line-making attachment for. E. G. Pereira. No. 1,397,740; Nov. 22.
- Typewriting-machines, Manifold device for. W. C. Shoup and W. E. Oliver. No. 1,383,346; July 5; v. 288; p. 18.
- Typewriting-machines, Marking attachment for. A. A. E. Hansen. No. 1,368,926; Feb. 15; v. 283; p. 504.
- Typewriting-machines, Paper take-up for. D. Gardner. No. 1,364,103; Jan. 4; v. 282; p. 11.
- Typewriting-machines, Platen-clutch for. C. Gabrielson. No. 1,393,277; Oct. 11.
- Typewriting-machines, Platen equipment for. H. A. Foothorap. No. 1,375,749; Apr. 26; v. 285; p. 592.
- Typewriting-machines, Ribbon-spool holder for. J. B. Holden. No. 1,379,408; May 24; v. 286; p. 760.
- Typewriting-machines, Segment-shift for. O. Petermann. No. 1,387,939; Aug. 16; v. 289; p. 516.
- Typewriting-machines, Segment-shift for. O. Petermann. No. 1,387,940; Aug. 16; v. 289; p. 516.
- Typewriting-machines, specially for writing on ruled paper, Device to graduate the distance of lines of. B. Shatz. No. 1,401,653; Dec. 27.
- Typewritten matter, Apparatus for duplicating. H. K. Lorentzen. No. 1,378,883; May 24; v. 286; p. 660.
- Typist's copy-stand. C. F. Guthridge. No. 1,393,116; Oct. 11.
- Typographic composing-machine. E. M. Low. No. 1,378,045; May 17; v. 286; p. 428.
- Typographic machine. M. C. Indahl. No. 1,378,413; May 17; v. 286; p. 497.
- Typographic machine. F. W. Letsch. No. 1,381,205; June 14; v. 287; p. 221.
- Typographic machine. F. W. Letsch. No. 1,392,017; Sept. 27; v. 290; p. 724.
- Typographic machine. F. W. Letsch and J. N. McFarland. No. 1,392,018; Sept. 27; v. 290; p. 725.
- Typographical composing and casting machines, Means for composing tabular matter in. E. Ellis. No. 1,377,820; May 10; v. 286; p. 332.
- Typographical composing and other key-controlled machines, Keyboard mechanism of. T. Drake. No. 1,398,092; Nov. 22.
- Typographical composing-machine. J. E. Billington. No. 1,373,942; Apr. 5; v. 285; p. 110.
- Typographical composing-machine. D. S. Kennedy. No. 1,380,807; June 7; v. 287; p. 93.
- Typographical composing-machine. D. S. Kennedy. No. 1,397,973; Nov. 22.
- Typographical distributing-machine. D. S. Kennedy. No. 1,387,495; Aug. 16; v. 289; p. 427.
- Typographical distributing-machine. D. S. Kennedy. No. 1,397,968; Nov. 22.
- Typographical distributing-machine. D. S. Kennedy. No. 1,397,972; Nov. 22.
- Typographical element. S. A. Jacobs. No. 1,382,088; June 21; v. 287; p. 446.
- Typographical machine. W. J. Irwin. No. 1,400,070; Dec. 13.
- Typographical machine. D. S. Kennedy. No. 1,367,606; Feb. 8; v. 283; p. 201.
- Typographical machine. D. S. Kennedy. No. 1,386,786; Aug. 9; v. 289; p. 234.
- Typographical machine. D. S. Kennedy. Nos. 1,396,125-6; Nov. 8.
- Typographical machine. D. S. Kennedy. No. 1,397,967; Nov. 22.
- Typographical machine. D. S. Kennedy. No. 1,397,969; Nov. 22.
- Typographical machine. D. S. Kennedy. No. 1,397,971; Nov. 22.
- Typographical machine. D. S. Kennedy. No. 1,397,974; Nov. 22.
- Typographical machine. G. E. Marlatt. No. 1,366,578; Jan. 25; v. 282; p. 619.
- Typographical machine. G. E. Marlatt. No. 1,366,579; Jan. 25; v. 282; p. 619.
- Typographical machine. G. E. Marlatt. No. 1,389,369; Aug. 30; v. 289; p. 911.
- Typographical machine. S. C. Nielsen. No. 1,386,794; Aug. 9; v. 289; p. 236.
- Typographical machine. H. Petersen. No. 1,385,585; July 26; v. 288; p. 687.
- Typographical machine. J. R. Rogers. No. 1,382,549; June 21; v. 287; p. 533.
- Typographical machine. E. W. Rogers and C. C. Chapel. No. 1,388,764; Aug. 23; v. 289; p. 735.
- Typographical machine. L. Sherrill. No. 1,383,769; July 5; v. 288; p. 106.
- Typographical machine, Mold for. B. K. Le Crone. No. 1,372,440; Mar. 22; v. 284; p. 679.
- Typographical machines, Keyboard mechanism for. D. S. Kennedy. No. 1,397,970; Nov. 22.



- Typographical machines, Line-stop for. E. W. Pierson. No. 1,392,792; Oct. 4.
- Typographical machines, Magazine-shifting mechanism for. T. S. Homans. No. 1,368,932; Feb. 15; v. 283; p. 505.
- Typographical matter, Mechanism for composing and casting. M. Barr and T. F. Maw. No. 1,380,763; June 7; v. 287; p. 84.
- U-packing, Making. T. Crossett. No. 1,386,601; Aug. 9; v. 289; p. 197.
- U-packing, Mold and apparatus for making. T. Crossett. No. 1,386,602; Aug. 9; v. 289; p. 197.
- Ultramarine, Manufacture of. A. Guillochin. No. 1,400,431; Dec. 13.
- Umbrella. W. E. Airey and J. Pomfret. No. 1,373,642; Apr. 5; v. 285; p. 51.
- Umbrella. E. R. Chase. No. 1,397,794; Nov. 22.
- Umbrella. P. L. Cook. No. 1,394,408; Oct. 18.
- Umbrella. P. C. Folwell. No. 1,387,146; Aug. 9; v. 289; p. 306.
- Umbrella. J. M. Lewis. No. 1,385,327; July 19; v. 288; p. 557.
- Umbrella. C. G. Stonestreet. No. 1,397,789; Nov. 22.
- Umbrella. L. A. Sygler. No. 1,397,466; Nov. 15.
- Umbrella. F. Westfeld. No. 1,369,996; Mar. 1; v. 284; p. 46.
- Umbrella, Collapsible. O. W. F. Posselt. No. 1,390,382; Sept. 13; v. 290; p. 256.
- Umbrella-cover. I. H. Weinberg and C. F. Blisbing. No. 1,381,043; June 7; v. 287; p. 138.
- Umbrella-draining cup. D. R. Baity. No. 1,369,603; Feb. 22; v. 283; p. 675.
- Umbrella, Foldable. A. S. Johnson. No. 1,378,354; May 17; v. 286; p. 485.
- Umbrella, Folding. P. S. Simmons and W. J. Frick. No. 1,396,893; Nov. 15.
- Umbrella-handle. R. Kamenetzky. No. 1,380,213; May 31; v. 286; p. 985.
- Umbrella-holder. C. A. Cooper. No. 1,392,120; Sept. 27; v. 290; p. 744.
- Umbrella-marker. L. W. Scutt. No. 1,369,846; Mar. 1; v. 284; p. 18.
- Umbrella or parasol. W. S. Wilson. No. 1,397,667; Nov. 22.
- Umbrella-rib. P. H. Seery. No. 1,381,350; June 14; v. 287; p. 247.
- Umbrella-support. L. E. Beavers. No. 1,399,683; Dec. 6.
- Umbrella-supporting means. P. H. McCourt. No. 1,368,516; Feb. 15; v. 283; p. 425.
- Umbrellas and sunshades, Runner and top-notch for. T. L. Virey. No. 1,368,306; Feb. 15; v. 283; p. 383.
- Umbrellas, Attachment for. C. W. Bennett. No. 1,387,758; Aug. 16; v. 289; p. 481.
- Umbrellas, Detachable fastening for. W. H. Beehler. No. 1,397,159; Nov. 15.
- Umbrellas, Removable cover for. W. Bergfield. No. 1,392,106; Sept. 27; v. 290; p. 741.
- Uncoupling-lever and coupling-positioning device, Combined. W. P. Murphy. No. 1,365,942; Jan. 18; v. 282; p. 451.
- Uncoupling mechanism. C. H. Krakau. No. 1,390,298; Sept. 13; v. 290; p. 240.
- Under reamer. F. Swan. No. 1,372,917; Mar. 29; v. 284; p. 814.
- Underfeed furnace. W. E. De Voe. No. 1,401,888; Dec. 27.
- Underfeed furnace, Self-cleaning side-dump. A. H. Blackburn and W. E. De Voe. No. 1,372,267; Mar. 22; v. 284; p. 646.
- Underframe and truck assembly. J. M. Rohlfing. No. 1,370,766; Mar. 8; v. 284; p. 238.
- Undergarment. C. A. Campbell. No. 1,376,674; May 3; v. 286; p. 55.
- Undergarment. A. E. Clarke. No. 1,398,624; Nov. 29.
- Undergarment. L. F. Doty. No. 1,391,618; Sept. 20; v. 290; p. 569.
- Undergarment. R. H. Harrell. No. 1,370,812; Mar. 8; v. 284; p. 247.
- Undergarment. F. J. Prue. No. 1,366,492; Jan. 25; v. 282; p. 601.
- Undergarment. B. W. Thayer. No. 1,393,468; Oct. 11.
- Undergarment. C. R. Watson. No. 1,376,381; Apr. 26; v. 285; p. 712.
- Undergarment for women. M. D. Neilson. No. 1,389,067; Aug. 30; v. 289; p. 851.
- Undergarment, Lady's. O. A. Lau. No. 1,400,825; Dec. 20.
- Underground and submarine antenna. E. C. Hanson. No. 1,388,336; Aug. 23; v. 289; p. 652.
- Underground loop-antenna. E. C. Hanson. No. 1,373,612; Apr. 5; v. 285; p. 45.
- Underreamer. P. J. Booker. No. 1,369,959; Mar. 1; v. 284; p. 39.
- Underreamer. E. Double. No. 1,388,105; Aug. 16; v. 289; p. 548.
- Underreamer. G. A. Montgomery. No. 1,368,961; Feb. 15; v. 283; p. 510.
- Underreamer. J. W. Pippin. No. 1,371,978; Mar. 15; v. 284; p. 534.
- Underreamer. C. S. Wright. No. 1,387,032; Aug. 9; v. 289; p. 284.
- Underreamer, Multiple-bit. A. L. Segelhorst. No. 1,397,114; Nov. 15.
- Underwear. S. S. Boyd. No. 1,387,585; Aug. 16; v. 289; p. 446.
- Unbairing-machine. R. C. Mischke. No. 1,393,809; Oct. 18.
- Uniflow engine. E. W. Swartwout. No. 1,390,398; Sept. 13; v. 290; p. 260.
- Uniform-motion universal joint. W. J. Francke. No. 1,392,754; Oct. 4.
- Union. A. C. Smith. No. 1,373,106; Mar. 29; v. 284; p. 850.
- Union-suit. C. A. Clements. No. 1,390,086; Sept. 6; v. 290; p. 107.
- Unit package. G. A. Wallin. No. 1,391,433; Sept. 20; v. 290; p. 532.
- Unit, Electric heating. C. C. Abbott. No. 1,393,732; Oct. 18.
- Unit, Pumping. G. D. Loud. No. 1,394,916; Oct. 25.
- Universal burning-in and running-in machine. F. Danielson. No. 1,369,223; Feb. 22; v. 283; p. 601.
- Universal connection. H. Mohr. No. 1,381,214; June 14; v. 287; p. 223.
- Universal joint. W. J. Behn. No. 1,376,504; May 3; v. 286; p. 24.
- Universal joint. A. P. Brush. No. 1,391,756; Sept. 27; v. 290; p. 670.
- Universal joint. E. A. Burnes. No. 1,390,668; Sept. 13; v. 290; p. 315.
- Universal joint. R. Chilton. No. 1,379,962; May 31; v. 286; p. 938.
- Universal joint. R. Chilton. No. 1,379,964; May 31; v. 286; p. 939.
- Universal joint. H. Cooper. No. 1,368,607; Feb. 15; v. 283; p. 442.
- Universal joint. J. Crawley. No. 1,372,404; Mar. 22; v. 284; p. 672.
- Universal joint. G. V. Curtis. No. 1,389,422; Aug. 30; v. 289; p. 921.
- Universal joint. L. G. Daniels. No. 1,382,958; June 28; v. 287; p. 665.
- Universal joint. M. G. Dusseau. No. 1,389,397; Aug. 30; v. 289; p. 897.
- Universal joint. F. Fischer. No. 1,397,951; Nov. 22.
- Universal joint. O. W. Hanson. No. 1,384,255; July 12; v. 288; p. 256.
- Universal joint. H. H. Hood. No. 1,376,437; May 3; v. 286; p. 12.
- Universal joint. A. M. Laycock. No. 1,373,082; Mar. 29; v. 284; p. 846.
- Universal joint. A. M. Laycock. No. 1,392,342; Oct. 4.
- Universal joint. N. Lee. No. 1,396,132; Nov. 8.
- Universal joint. R. H. Lowndes. No. 1,394,749; Oct. 25.
- Universal joint. J. C. Mackey. No. 1,364,842; Jan. 4; v. 282; p. 153.
- Universal joint. A. B. Morse. No. 1,394,184; Oct. 18.
- Universal joint. E. Noel. No. 1,389,970; Sept. 6; v. 290; p. 83.
- Universal joint. E. Noel. No. 1,389,971; Sept. 6; v. 290; p. 83.
- Universal joint. F. W. Peters. No. 1,364,311; Jan. 4; v. 282; p. 52.
- Universal joint. D. Robinson, Jr. No. 1,385,713; July 26; v. 288; p. 714.
- Universal joint. C. T. Schaefer. No. 1,386,735; Aug. 9; v. 289; p. 224.
- Universal joint. C. E. Swenson. No. 1,380,270; May 31; v. 286; p. 996.
- Universal joint. W. H. Thieme. No. 1,366,036; Jan. 18; v. 282; p. 468.
- Universal joint. W. H. Thieme. No. 1,366,037; Jan. 18; v. 282; p. 469.
- Universal joint. W. H. Thieme. No. 1,366,038; Jan. 18; v. 282; p. 469.
- Universal joint. W. H. Thieme. No. 1,366,039; Jan. 18; v. 282; p. 469.
- Universal joint. W. H. Thieme. No. 1,366,040; Jan. 18; v. 282; p. 469.
- Universal joint. W. H. Thieme. No. 1,371,005; Mar. 8; v. 284; p. 283.
- Universal joint. W. H. Thieme. No. 1,371,006; Mar. 8; v. 284; p. 283.
- Universal joint. W. H. Thieme. No. 1,376,840; May 3; v. 286; p. 88.
- Universal joint. W. H. Thieme. No. 1,378,985; May 24; v. 286; p. 680.
- Universal joint. W. H. Thieme. No. 1,378,986; May 24; v. 286; p. 680.
- Universal joint. W. H. Thieme. No. 1,381,599; June 14; v. 287; p. 293.
- Universal joint. W. H. Thieme. No. 1,381,600; June 14; v. 287; p. 294.
- Universal joint. G. H. Thomas. No. 1,389,915; Sept. 6; v. 290; p. 72.
- Universal joint. E. H. Webb. No. 1,388,225; Aug. 23; v. 289; p. 629.
- Universal joint. W. A. Whitney. No. 1,394,701; Oct. 25.
- Universal joint. J. P. Wood. No. 1,381,155; June 14; v. 287; p. 212.
- Universal joint. W. M. Ziegler. No. 1,367,578; Feb. 8; v. 283; p. 196.
- Universal joint-coupling. A. H. De Voe. No. 1,387,043; Aug. 9; v. 289; p. 287.



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- Universal-joint oil-box. G. E. Miller. No. 1,382,528; June 21; v. 287; p. 529.
- Universal joints, Method and apparatus for testing. R. Chilton. No. 1,379,961; May 31; v. 286; p. 938.
- Universal mill. H. R. Geer. No. 1,392,489; Oct. 4.
- Universal mill. A. L. Roberts. No. 1,385,644; July 26; v. 288; p. 699.
- Universal pipe-joint. E. G. Loomis. No. 1,373,515; Apr. 5; v. 285; p. 27.
- Universal reproducer. W. G. Shelton. No. 1,392,082; Sept. 27; v. 290; p. 737.
- Universal table. E. C. Amsden. No. 1,394,526; Oct. 25.
- Unloading and counting cocoanuts or like articles, Machine for. R. C. McKeand. No. 1,382,522; June 21; v. 287; p. 528.
- Unloading and elevating apparatus. J. J. Runck. No. 1,388,063; Aug. 16; v. 289; p. 540.
- Unloading apparatus. H. Pearson. No. 1,381,495; June 14; v. 287; p. 274.
- Unloading device. W. R. Jones. No. 1,392,419; Oct. 4.
- Unreeling and tension device. P. E. Chapman. No. 1,396,728; Nov. 15.
- Untwisting and winding machine, Chenille. G. C. L. Tisch. No. 1,398,754; Nov. 29.
- Unwinding apparatus. A. J. D. A. Voulgre. No. 1,393,985; Oct. 18.
- Unwinding device. W. E. Seed. No. 1,393,705; Oct. 11.
- Unwoven fabric and making same. R. B. Respass. No. 1,365,061; Jan. 11; v. 282; p. 239.
- Upholstering-cushions, Machine for making. A. H. Lichten. No. 1,365,041; Jan. 11; v. 282; p. 237.
- Upholstering-machine. E. J. Long. No. 1,381,573; June 14; v. 287; p. 289.
- Upholstering, Molding for. J. D. Bolender and E. R. Creamer. No. 1,387,639; Aug. 16; v. 289; p. 457.
- Upholstering roll or beading for furniture. H. J. Jacobs. No. 1,370,690; Mar. 8; v. 284; p. 223.
- Upholstery, Bat for. A. H. Gallagher. No. 1,368,921; Feb. 15; v. 283; p. 503.
- Upholstery device. H. L. Shepler. No. 1,383,431; July 5; v. 288; p. 36.
- Upholstery-spring construction. W. D. McCullough and T. Mahoney. No. 1,387,160; Aug. 9; v. 289; p. 309.
- Urea, Compound of. C. Bosch. No. 1,369,383; Feb. 22; v. 283; p. 632.
- Ureas, Producing tetra-substituted. T. J. Albert, Jr. No. 1,393,597; Oct. 11.
- Urinal. Y. Fishback. No. 1,386,696; Aug. 9; v. 289; p. 216.
- Urinal. T. Ohara. No. 1,379,206; May 24; v. 286; p. 721.
- Urinal bag, Male. F. F. Riche. No. 1,389,531; Aug. 30; v. 289; p. 943.
- Urinary apparatus. E. C. Rogers. No. 1,379,289; May 24; v. 286; p. 737.
- Urine-container and supporter therefor. T. T. Snow. No. 1,372,101; Mar. 22; v. 284; p. 613.
- Urn, Beverage. W. F. Clark. No. 1,389,628; Sept. 6; v. 290; p. 13.
- Urn, Coffee. J. L. Meyfarth. No. 1,376,287; Apr. 26; v. 285; p. 695.
- Urn construction, Multiple. W. F. Clark. No. 1,397,620; Nov. 22.
- Utensil, Camping. W. J. Feldkamp. No. 1,378,846; May 24; v. 286; p. 654.
- Utensil, Combination. F. Rosen. No. 1,381,339; June 14; v. 287; p. 245.
- Utensil, Cooking. H. L. Alexander. No. 1,384,035; July 12; v. 288; p. 211.
- Utensil, Cooking. R. B. Kirk and J. B. Young. No. 1,399,866; Dec. 13.
- Utensil-handle guard. M. A. Andes. No. 1,375,271; Apr. 19; v. 285; p. 469.
- Utensil implement. F. Szymd. No. 1,397,345; Nov. 15.
- Utensil, Kitchen. F. W. Workman. No. 1,383,779; July 5; v. 288; p. 109.
- Utensil-lifter. C. A. Mann. No. 1,368,953; Feb. 15; v. 283; p. 509.
- Utensil, Motor-driven. L. Collins. No. 1,372,279; Mar. 22; v. 284; p. 648.
- Utensil, Shaving. A. Hoffmann. No. 1,365,103; Jan. 11; v. 282; p. 247.
- Utensils, Manufacturing metal table. D. Calderoni. No. 1,371,469; Mar. 15; v. 284; p. 436.
- Utilization of observable radiations, Method of and apparatus for. L. Bell and N. Marshall. No. 1,385,657; July 26; v. 288; p. 702.
- Utilization of observable radiations, Method and apparatus for. N. Marshall and L. Bell. No. 1,385,696; July 26; v. 288; p. 710.
- V-type internal-combustion engine. S. S. Guy. No. 1,396,744; Nov. 15.
- Vacua, Method of and means for obtaining high. I. Langmuir. No. 1,393,550; Oct. 11.
- Vacuo-thermic body-treatment appliance. J. F. Webb, Sr. No. 1,399,095; Dec. 6.
- Vacuum and boiler feed apparatus. H. A. Young. No. 1,395,624; Nov. 1.
- Vacuum-brake. H. W. Barrows. No. 1,399,099; Dec. 6.
- Vacuum-breaker. R. Wood. No. 1,391,600; Sept. 20; v. 290; p. 566.
- Vacuum-can. S. C. Larsen. No. 1,391,549; Sept. 20; v. 290; p. 556.
- Vacuum-cleaner. G. Clements. No. 1,392,624; Oct. 4.
- Vacuum-cleaner. W. C. Johnston. No. 1,392,874; Oct. 4.
- Vacuum-cleaner. E. E. Mellenthin. No. 1,400,448; Dec. 13.
- Vacuum-cleaner. R. Nishimoto. No. 1,385,573; July 26; v. 288; p. 685.
- Vacuum-cleaner attachment. G. Qualman. No. 1,376,971; May 3; v. 286; p. 113.
- Vacuum-cleaner, Electric. O. Brintzenhofe. No. 1,386,836; Aug. 9; v. 289; p. 245.
- Vacuum-cleaner switch-operating mechanism. M. H. Spielman. No. 1,380,163; May 31; v. 286; p. 976.
- Vacuum-cleaning and dust-removing purposes, Apparatus for producing a vacuum for. B. C. Joy. No. 1,384,898; July 19; v. 288; p. 470.
- Vacuum cleaning apparatus, Dust-receptacle for. P. A. Geier. No. 1,383,615; July 5; v. 288; p. 74.
- Vacuum-discharge apparatus. H. Heuser. No. 1,388,565; Aug. 23; v. 289; p. 696.
- Vacuum electric apparatus. P. C. Hewitt. No. 1,384,953; July 19; v. 288; p. 481.
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- Vacuum feeding systems, Suction-augmenting device for. J. C. Coulombe. No. 1,374,491; Apr. 12; v. 285; p. 256.
- Vacuum fuel-feed apparatus. B. F. Zimmerman. No. 1,366,760; Jan. 25; v. 282; p. 655.
- Vacuum fuel-feed device. F. G. Whittington. No. 1,391,230; Sept. 20; v. 290; p. 491.
- Vacuum grain-cleaner. C. A. Torrence. No. 1,381,601; June 14; v. 287; p. 294.
- Vacuum heating system. T. O. Perry. No. 1,364,139; Jan. 4; v. 282; p. 17.
- Vacuum-jackets, Sealing. J. L. Fate. No. 1,388,248; Aug. 23; v. 289; p. 634.
- Vacuum-pressure frame. A. T. Koppe. No. 1,396,962; Nov. 15.
- Vacuum-producing device. J. McAlear. No. 1,367,556; Feb. 8; v. 283; p. 191.
- Vacuum-tube apparatus. E. O. Scriven. No. 1,375,739; Apr. 26; v. 285; p. 590.
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- Vacuum-tube holder. W. J. Leveridge. No. 1,386,714; Aug. 9; v. 289; p. 220.
- Vacuum-tube repeater-circuits. H. S. Read. No. 1,386,731; Aug. 9; v. 289; p. 223.
- Vacuum-type converter. W. T. Birdsall. No. 1,388,793; Aug. 23; v. 289; p. 741.
- Vacuum-valve detector. R. A. Weagant. No. 1,379,706; May 31; v. 286; p. 890.
- Vacuum-valve detector. R. A. Weagant. No. 1,380,206; May 31; v. 286; p. 984.
- Vacuum wall-containers, Manufacturing. C. A. Rohland. No. 1,388,126; Aug. 16; v. 289; p. 552.
- Vacuumizing apparatus. G. B. Haines. No. 1,395,915; Nov. 1.
- Vaginal washer. T. H. Larson. No. 1,374,458; Apr. 12; v. 285; p. 250.
- Valise-hinge. I. Heyman. No. 1,382,083; June 21; v. 287; p. 445.
- Valise, Traveling. J. Winitow. No. 1,365,139; Jan. 11; v. 282; p. 255.
- Valve. A. Abbamonte. No. 1,381,049; June 7; v. 287; p. 139.
- Valve. L. C. Bayles. No. 1,383,373; July 5; v. 288; p. 24.
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- Valve. C. A. Borchert and M. G. O'Neil. No. 1,387,831; Aug. 16; v. 289; p. 495.
- Valve. E. C. Bowden-Smith. No. 1,392,294; Oct. 4.
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- Valve. W. B. Brassington. No. 1,379,389; May 24; v. 286; p. 756.
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- Valve. J. A. Carson. No. 1,381,795; June 14; v. 287; p. 331.
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- Valve. B. J. Griffin. No. 1,394,895; Oct. 25.



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- Valve. W. Jean. No. 1,398,432; Nov. 29.
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- Valve. M. S. Reiley. No. 1,392,354; Oct. 4.
- Valve. F. T. Romberger. No. 1,401,923; Dec. 27.
- Valve. J. Rothchild. No. 1,367,506; Feb. 1; v. 283; p. 124.
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- Valve. D. L. Sheafor. No. 1,381,938; June 21; v. 287; p. 418.
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- Valve. E. H. Spencer. No. 1,383,871; July 5; v. 288; p. 127.
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- Valve-actuating mechanism. C. H. Rankin. No. 1,365,541; Jan. 11; v. 282; p. 332.
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- Valve and valve-operating mechanism, Dust-catcher. A. C. Danks. No. 1,401,052; Dec. 20.
- Valve and valve-seat. J. C. Bevelle and J. J. Smith. No. 1,391,450; Sept. 20; v. 290; p. 535.
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- Valve, Automatic. H. Hellweg. No. 1,375,696; Apr. 26; v. 285; p. 583.
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- Valve, Automatic cut-off. S. C. Carr. No. 1,385,112; July 19; v. 288; p. 515.
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- Valve, Blowtorch-. F. K. Low. No. 1,397,814; Nov. 22.
- Valve, Boiler check-shut-off. M. A. Enger. No. 1,399,470; Dec. 6.
- Valve, Bottle-filling. C. S. Weitz. No. 1,393,864; Oct. 18.
- Valve-box. L. Van Gilder. No. 1,377,105; May 3; v. 286; p. 133.
- Valve, Brake-pipe vent-. T. H. Thomas. No. 1,384,930; July 19; v. 288; p. 476.
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- Valve-cap. J. Schmidt. No. 1,374,396; Apr. 12; v. 285; p. 238.
- Valve-cap. H. A. Wood. No. 1,397,027; Nov. 15.
- Valve-cap and tire-deflator, Combination. W. P. McComb. No. 1,370,603; Mar. 8; v. 284; p. 206.
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- Valve, Check-. J. A. Donnelly. No. 1,366,171; Jan. 18; v. 282; p. 495.
- Valve, Check-. W. H. Elliott. No. 1,388,246; Aug. 23; v. 289; p. 633.
- Valve, Check-. R. M. Hotchkiss. No. 1,381,463; June 14; v. 287; p. 268.
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- Valve, Churn-. O. E. Pasko. No. 1,372,244; Mar. 22; v. 284; p. 642.
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- Valve-cleaner. D. D. Henderson. No. 1,399,962; Dec. 13.
- Valve, Cleaning-door and chimney-. W. T. Clark. No. 1,396,676; Nov. 8.



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- Valve, Combined cleaning-door and chimney-. W. T. Clark. No. 1,390,669; Sept. 13; v. 290; p. 316.
- Valve construction. G. R. Jernstedt. No. 1,365,694; Jan. 18; v. 282; p. 401.
- Valve construction, Annular. C. de Lukacsevics and E. Loffler. No. 1,390,967; Sept. 13; v. 290; p. 375.
- Valve control, Automatic. T. Curran. No. 1,387,130; Aug. 9; v. 289; p. 303.
- Valve-control float. C. Elmke. No. 1,390,892; Sept. 13; v. 290; p. 360.
- Valve-controller, Automatic. G. R. Richardson. No. 1,368,455; Feb. 15; v. 283; p. 413.
- Valve, Controlling-. C. H. Clark. No. 1,373,599; Apr. 5; v. 285; p. 43.
- Valve-controlling device. J. H. Brumbaugh. No. 1,396,808; Nov. 15.
- Valve-controlling means for water-closet apparatus. W. U. Griffiths. No. 1,397,208; Nov. 15.
- Valve-controlling mechanism, Automatic. J. T. Knoles. No. 1,367,748; Feb. 8; v. 283; p. 229.
- Valve-controlling mechanism, Rotary automatic. R. L. Bridges. No. 1,387,760; Aug. 16; v. 289; p. 481.
- Valve, Conveying-. A. F. Long. No. 1,396,859; Nov. 15.
- Valve-coupling. R. J. Noakes. No. 1,388,523; Aug. 23; v. 289; p. 689.
- Valve-cut-off-correction instrument for locomotives. V. Z. Caracristi. No. 1,398,256; Nov. 29.
- Valve, Cut-out. T. M. Roberts and T. Bovey. No. 1,368,970; Feb. 15; v. 283; p. 512.
- Valve, Cut-out. E. Ryder. No. 1,398,976; Dec. 6.
- Valve-cutter and valve-seat reamer, Combined. W. E. Fehr. No. 1,377,470; May 10; v. 286; p. 265.
- Valve, Cylindrical or sleeve. H. Berckenhoff. No. 1,377,798; May 10; v. 286; p. 328.
- Valve device, Brake-. T. H. Thomas. No. 1,381,946; June 21; v. 287; p. 420.
- Valve, Dispensing-. C. P. Bossert. No. 1,374,980; Apr. 19; v. 285; p. 413.
- Valve drain-trap. E. S. Stotts. No. 1,396,077; Nov. 8.
- Valve, Drifting-. J. H. Hanlon. No. 1,378,786; May 17; v. 286; p. 569.
- Valve, Dry-pipe. G. I. Rockwood. No. 1,397,704; Nov. 22.
- Valve, Electromagnetic. J. H. Campbell. No. 1,382,412; June 21; v. 287; p. 507.
- Valve, Electromagnetic. A. M. Olsen. No. 1,395,203; Oct. 25.
- Valve, Electropneumatic. E. Wiet and F. Chittenden. No. 1,392,544; Oct. 4.
- Valve, Emergency-. C. D. Myer. No. 1,394,332; Oct. 18.
- Valve, Engine injection-. A. Tacchella. No. 1,396,978; Nov. 15.
- Valve-facing tool. J. W. Nipper. No. 1,394,573; Oct. 25.
- Valve, faucet, and the like. W. R. Comings. No. 1,401,879; Dec. 27.
- Valve, Feed-water-regulator. V. V. Veenschoten. No. 1,368,978; Feb. 15; v. 283; p. 513.
- Valve, Feed-water-regulator. V. V. Veenschoten. No. 1,384,414; July 12; v. 288; p. 289.
- Valve, Fire-box. S. Plolunek. No. 1,369,466; Feb. 22; v. 283; p. 648.
- Valve-fitting. W. Grikscheit. No. 1,376,534; May 3; v. 286; p. 29.
- Valve, Float-. W. Combellick. No. 1,379,529; May 24; v. 286; p. 783.
- Valve, Float-. J. L. Skuttle. No. 1,368,864; Feb. 15; v. 283; p. 395.
- Valve, Fluid-. H. P. Booth. No. 1,400,411; Dec. 13.
- Valve, Fluid-controlling. H. E. Evans. No. 1,400,944; Dec. 20.
- Valve, Fluid-pressure-regulating. C. L. Bastian. No. 1,394,395; Oct. 18.
- Valve, Flush-. W. L. Harroun. No. 1,374,655; Apr. 12; v. 285; p. 288.
- Valve, Flush-. E. L. Kellan. No. 1,385,456; July 26; v. 288; p. 660.
- Valve, Flush-. G. D. Showers. No. 1,394,945; Oct. 25.
- Valve, Flush-. H. J. Winckler. No. 1,390,851; Sept. 13; v. 290; p. 351.
- Valve, Flushing-. R. A. Brooks. No. 1,396,501; Nov. 8.
- Valve, Flushing-. M. H. Flynn. No. 1,368,208; Feb. 8; v. 283; p. 316.
- Valve, Flushing-. C. H. Phillips. No. 1,388,481; Aug. 23; v. 289; p. 681.
- Valve, Flushing-. F. A. Schossow. No. 1,368,764; Feb. 15; v. 283; p. 473.
- Valve, Flushing-. E. G. Watrous. No. 1,379,231; May 24; v. 286; p. 726.
- Valve, Flushing-. E. C. Watrous. No. 1,382,814; June 28; v. 287; p. 638.
- Valve for air-compressors. B. V. Nordberg. No. 1,400,373; Dec. 13.
- Valve for angle-cocks, Double-pressure vent-. R. L. Evans. No. 1,385,122; July 19; v. 288; p. 518.
- Valve for blowing tanks, Inlet. H. A. Kimber. No. 1,386,004; Aug. 2; v. 289; p. 8.
- Valve for buildings, Fresh-air. M. B. Moyer. No. 1,397,739; Nov. 22.
- Valve for closet-tanks, Ball-. F. E. Grosvold. No. 1,377,883; May 10; v. 286; p. 345.
- Valve for coke-ovens, Air-. W. E. Roberts. No. 1,395,060; Oct. 25.
- Valve for engines. H. Crowe. No. 1,367,357; Feb. 1; v. 283; p. 94.
- Valve for flush-tanks, Inlet-control. W. Wright. No. 1,368,088; Feb. 8; v. 283; p. 292.
- Valve for flushing-tanks. H. N. Libbey. No. 1,396,133; Nov. 8.
- Valve for flushing-tanks. J. S. Sweeny. No. 1,382,027; June 21; v. 287; p. 435.
- Valve for flushing-tanks, Water-inlet. W. Sherwood. No. 1,391,860; Sept. 27; v. 290; p. 692.
- Valve for fuel-tank closure-plugs. A. L. Hartley. No. 1,372,506; Mar. 22; v. 284; p. 691.
- Valve for fuel-tanks, Locking-. A. C. Black and J. D. Clark. No. 1,377,389; May 10; v. 286; p. 250.
- Valve for gas-cocks, Automatic. J. J. Carey. No. 1,375,862; Apr. 19; v. 285; p. 486.
- Valve for gasoline-dispensing apparatus of filling stations, Outlet-. C. H. Hughes. No. 1,377,835; May 10; v. 286; p. 338.
- Valve for hot-water boilers, Temperature-controlled safety relief-. C. H. Smith. No. 1,388,383; Aug. 23; v. 289; p. 662.
- Valve for hot-water systems, Safety relief-. C. H. Smith. No. 1,401,002; Dec. 20.
- Valve for internal-combustion and fluid-pressure engines. E. Wallace. No. 1,386,477; Aug. 2; v. 289; p. 100.
- Valve for internal-combustion engines. J. Black. No. 1,382,053; June 21; v. 287; p. 439.
- Valve for irrigation projects. W. J. Coleburn. No. 1,374,358; Apr. 12; v. 285; p. 230.
- Valve for jet-condensers, Automatic shut-off. R. N. Ehrhart and J. A. Powell. No. 1,395,265; Nov. 1.
- Valve for locomotive-tenders, Tank-. W. F. J. Casey and G. Calvin. No. 1,369,007; Feb. 22; v. 283; p. 559.
- Valve for motors. C. O. Landgrebe. No. 1,400,488; Dec. 13.
- Valve for organs and the like, Magnetic. W. H. Reisner. No. 1,387,664; Aug. 16; v. 289; p. 461.
- Valve for pipes for water and other fluids. A. J. Astier. No. 1,387,446; Aug. 16; v. 289; p. 417.
- Valve for pneumatic motors, Oscillating. H. S. Hornbeck. No. 1,400,551; Dec. 20.
- Valve for pneumatic-tool handles, Throttle-. L. Sykes. No. 1,367,570; Feb. 8; v. 283; p. 194.
- Valve for pumps. M. Shevlin. No. 1,381,078; June 7; v. 287; p. 145.
- Valve for radiators, Exhaust-. H. A. Connors. No. 1,390,503; Sept. 13; v. 290; p. 281.
- Valve for range-boilers, &c., Steam-escape. W. A. Collier. No. 1,401,048; Dec. 20.
- Valve for refrigerating systems, Automatic expansion-. J. Ellmayer. No. 1,380,787; June 7; v. 287; p. 88.
- Valve for steam and water systems. O. W. Smith. No. 1,379,840; May 31; v. 286; p. 915.
- Valve for use in wireless telegraphy and telephony, Thermionic. H. S. de A. Donisthorpe. No. 1,391,671; Sept. 27; v. 290; p. 654.
- Valve for water-tanks. O. Linstadt. No. 1,393,384; Oct. 11.
- Valve, Gas-controlling. L. E. Erwin. No. 1,394,615; Oct. 25.
- Valve, Gas-engine. A. Moses. No. 1,365,531; Jan. 11; v. 282; p. 330.
- Valve, Gasoline-. G. C. Bredin. No. 1,398,999; Dec. 6.
- Valve, Gate-. M. C. Christensen. No. 1,398,678; Nov. 29.
- Valve, Gate-. J. C. Smith. No. 1,388,777; Aug. 23; v. 289; p. 738.
- Valve, Gate-. W. B. S. Whaley. No. 1,391,987; Sept. 27; v. 290; p. 718.
- Valve-gear. H. O. Baker. No. 1,395,331; Nov. 1.
- Valve-gear. J. O. Jones. No. 1,371,424; Mar. 15; v. 284; p. 427.
- Valve-gear. H. M. Smyth. No. 1,370,925; Mar. 8; v. 284; p. 267.
- Valve-gear for motors. A. Afanador. No. 1,385,104; July 19; v. 288; p. 514.
- Valve, Globe-. W. F. Walsh. No. 1,364,848; Jan. 4; v. 282; p. 154.
- Valve, Globe check-. C. C. Koplín. No. 1,369,444; Feb. 22; v. 283; p. 643.
- Valve-governor. A. Arnold. No. 1,384,113; July 12; v. 288; p. 226.
- Valve, Governor-actuated. G. J. Rackham. No. 1,367,326; Feb. 1; v. 283; p. 88.
- Valve, Grating-. L. Lundquist. No. 1,380,992; June 7; v. 287; p. 128.
- Valve-grinder. F. O. Albertson. No. 1,386,085; Aug. 2; v. 289; p. 25.



- Valve-grinder. F. A. Alzepeck. No. 1,368,829; Feb. 15; v. 283; p. 486.
- Valve-grinder. C. I. Bodenstein. No. 1,371,142; Mar. 8; v. 284; p. 309.
- Valve-grinder. C. A. Bukove. No. 1,390,879; Sept. 13; v. 290; p. 357.
- Valve-grinder. A. E. Carlson. No. 1,401,391; Dec. 27.
- Valve-grinder. W. H. Emmert and E. Minge. No. 1,373,181; Mar. 29; v. 284; p. 866.
- Valve-grinder. W. J. Luck. No. 1,396,861; Nov. 15.
- Valve-grinder. J. Miller. No. 1,384,624; July 12; v. 288; p. 333.
- Valve-grinder. N. J. Peterson. No. 1,393,567; Oct. 11.
- Valve-grinder. F. F. Richard. No. 1,400,000; Dec. 13.
- Valve-grinder. G. Schadee. No. 1,382,934; June 28; v. 287; p. 661.
- Valve-grinder. R. G. Sedgewick. No. 1,372,045; Mar. 22; v. 284; p. 603.
- Valve-grinder. C. H. and H. W. Viebrock. No. 1,397,390; Nov. 15.
- Valve-grinders, Operating device for. A. B. Baule and W. G. Kirchhoff. No. 1,386,674; Aug. 9; v. 289; p. 212.
- Valve-grinders, Operating device for. R. E. Clark. No. 1,401,314; Dec. 27.
- Valve-grinding composition. C. Shattock. No. 1,386,432; Aug. 2; v. 289; p. 92.
- Valve-grinding compound. J. V. Wicks. No. 1,381,953; June 21; v. 287; p. 421.
- Valve-grinding device. C. C. Lott. No. 1,400,365; Dec. 13.
- Valve-grinding device. F. R. Whitecomb. No. 1,380,620; June 7; v. 287; p. 56.
- Valve-grinding machine. H. E. Peck. No. 1,388,884; Aug. 30; v. 289; p. 814.
- Valve-grinding tool. P. J. Churnside. No. 1,371,967; Mar. 15; v. 284; p. 531.
- Valve-grinding tool. O. T. Haig. No. 1,391,892; Sept. 27; v. 290; p. 698.
- Valve-grinding tool. H. C. Hughes. No. 1,398,377; Nov. 29.
- Valve-grinding tool. J. J. Rischard. No. 1,377,440; May 10; v. 286; p. 260.
- Valve-handle. F. A. Stoll. No. 1,388,316; Aug. 23; v. 289; p. 648.
- Valve-handle. J. G. Zolleis. No. 1,373,476; Apr. 5; v. 285; p. 19.
- Valve-handle, Detachable. F. L. Hale. No. 1,398,263; Nov. 29.
- Valve, High-pressure. C. F. Hummel. No. 1,374,571; Apr. 12; v. 285; p. 273.
- Valve, High-pressure governor. J. Needham. No. 1,373,906; Apr. 5; v. 285; p. 103.
- Valve, House-service. T. J. Sullivan. No. 1,384,645; July 12; v. 288; p. 338.
- Valve-housing or handle-lock for pneumatic tools. A. Levedahl. No. 1,385,178; July 19; v. 288; p. 529.
- Valve, Humidifying-. J. W. Shepherd. No. 1,365,284; Jan. 11; v. 282; p. 283.
- Valve, Hutch-. A. G. J. Rapp. No. 1,391,403; Sept. 20; v. 290; p. 526.
- Valve, Hydraulic. E. Mathieu. No. 1,385,019; July 19; v. 288; p. 496.
- Valve, Hydraulic. D. F. Stayman. No. 1,385,932; July 26; v. 288; p. 757.
- Valve, Hydraulic back-pressure. A. Kennedy. No. 1,367,189; Feb. 1; v. 283; p. 61.
- Valve indicator, Throttle. L. S. Watres. No. 1,394,994; Oct. 11.
- Valve, Inflating-. R. N. Bressler. No. 1,381,700; June 14; v. 287; p. 313.
- Valve, Irrigation-. J. A. Carr. No. 1,399,928; Dec. 13.
- Valve, Irrigation-. C. J. Kurtz. No. 1,399,434; Dec. 6.
- Valve, Irrigating-. J. A. Nickolaus. No. 1,401,097; Dec. 20.
- Valve-lifter. H. A. Booth. No. 1,395,901; Nov. 1.
- Valve-lifter. B. C. Burmen. No. 1,389,564; Aug. 30; v. 289; p. 949.
- Valve-lifter. R. Chaney. No. 1,375,627; Apr. 19; v. 285; p. 537.
- Valve-lifter. R. L. Criswell. No. 1,384,518; July 12; v. 288; p. 310.
- Valve-lifter. W. E. Dunstan. No. 1,398,456; Nov. 29.
- Valve-lifter. F. M. Handly. No. 1,373,885; Apr. 5; v. 285; p. 99.
- Valve-lifter. N. G. Larson. No. 1,380,654; June 7; v. 287; p. 62.
- Valve-lifter. O. W. Lind. No. 1,366,573; Jan. 25; v. 282; p. 618.
- Valve-lifter. T. Otsuka. No. 1,384,969; July 19; v. 288; p. 485.
- Valve-lifter. T. Sandefur. No. 1,400,463; Dec. 13.
- Valve-lifter. C. T. Stubbs. No. 1,393,180; Oct. 11.
- Valve-lifter. J. Sunnen. No. 1,369,142; Feb. 22; v. 283; p. 585.
- Valve-lifting device. H. Egloff. No. 1,385,436; July 26; v. 288; p. 656.
- Valve-lifting device. W. W. McNaughton. No. 1,384,535; July 12; v. 288; p. 314.
- Valve-lifting device. J. E. Wainwright. No. 1,392,373; Oct. 4.
- Valve-lifting tool. G. W. Willson. No. 1,380,508; June 7; v. 287; p. 35.
- Valve-lock. L. R. Jones. No. 1,395,678; Nov. 1.
- Valve lock, Gasolene-. W. H. Jackson. No. 1,366,804; Jan. 25; v. 282; p. 664.
- Valve, Locking-. M. Christman. No. 1,365,379; Jan. 11; v. 282; p. 301.
- Valve, Locking-. F. J. McCalmont. No. 1,400,615; Dec. 20.
- Valve, Magnetically-operated. M. W. Link. No. 1,392,952; Oct. 11.
- Valve-manifold. W. Wishart and A. H. Morrell. No. 1,397,912; Nov. 22.
- Valve mechanism. K. E. Cartzdafner and H. A. Ketcham. No. 1,375,562; Apr. 19; v. 285; p. 524.
- Valve mechanism. R. N. Ehrhart. No. 1,368,251; Feb. 15; v. 283; p. 372.
- Valve mechanism. C. H. England. No. 1,372,874; Mar. 29; v. 284; p. 805.
- Valve mechanism. H. W. Hargood. No. 1,397,685; Nov. 22.
- Valve mechanism. E. W. Miller. No. 1,376,109; Apr. 26; v. 285; p. 661.
- Valve mechanism. C. E. Sayre. No. 1,389,104; Aug. 30; v. 289; p. 858.
- Valve mechanism. G. A. Schwer and O. E. Bornhauser. No. 1,389,276; Aug. 30; v. 289; p. 892.
- Valve mechanism, Automatic. J. C. Hansen-Ellehammer. No. 1,384,462; July 12; v. 288; p. 290.
- Valve mechanism, Compressor. W. Wishart and A. H. Morrell. No. 1,398,309; Nov. 29.
- Valve mechanism, Electro-. C. P. Frey. No. 1,384,443; July 12; v. 288; p. 295.
- Valve mechanism for oil-cans. C. H. Kelsea. No. 1,380,973; June 7; v. 287; p. 125.
- Valve mechanism for reversing regenerative furnaces. L. L. Knox. No. 1,397,380; Nov. 15.
- Valve mechanism, Motor-. L. L. Bedell. No. 1,366,511; Jan. 25; v. 282; p. 605.
- Valve mechanism, Reversing-. J. F. Rogers. No. 1,379,696; May 31; v. 286; p. 888.
- Valve mechanism, Snap-movement. C. F. Brand. No. 1,395,551; Nov. 1.
- Valve mechanism, Tank-car discharge-. A. E. Ostrander. No. 1,370,760; Mar. 8; v. 284; p. 237.
- Valve mechanism, Tappet-. F. G. Alborn. No. 1,399,839; Dec. 13.
- Valve members, Uniting the heads and stems of. J. Birrell. No. 1,382,052; June 21; v. 287; p. 439.
- Valve, Mixing-. S. N. Holm. No. 1,384,132; July 12; v. 288; p. 231.
- Valve, Motor-. L. Strebel. No. 1,380,435; June 7; v. 287; p. 21.
- Valve, Muffler-cut-out. J. W. Horne. No. 1,384,893; July 19; v. 288; p. 469.
- Valve, Multiple ball-. F. Wittenmeier. No. 1,401,223; Dec. 27.
- Valve, Multiple tire-. J. A. Overlander. No. 1,376,968; May 3; v. 286; p. 112.
- Valve of pumps. F. W. Brackett. No. 1,378,760; May 17; v. 286; p. 565.
- Valve of the annular type. O. Ohlsson. No. 1,383,842; July 5; v. 288; p. 121.
- Valve, Oil-control. H. M. Sheer. No. 1,389,075; Aug. 30; v. 289; p. 852.
- Valve, Oil-tank. W. F. James. No. 1,398,025; Nov. 22.
- Valve operating and locking device. W. G. Wiesener. No. 1,384,369; July 12; v. 288; p. 280.
- Valve operating and locking mechanism. S. L. Kneass. No. 1,379,927; May 31; v. 286; p. 931.
- Valve-operating device, Radiator-drain. R. V. Converse. No. 1,368,324; Feb. 15; v. 283; p. 387.
- Valve-operating lever. F. F. Scoville. No. 1,382,020; June 21; v. 287; p. 433.
- Valve-operating lever. F. F. Scoville. No. 1,366,502; Jan. 25; v. 282; p. 603.
- Valve-operating mechanism. H. V. J. Jouffret. No. 1,368,161; Feb. 8; v. 283; p. 307.
- Valve-operating mechanism. C. B. Kirkham. No. 1,373,432; Apr. 5; v. 285; p. 10.
- Valve-operating mechanism. F. E. Lamplough and H. J. S. Stobart. No. 1,369,677; Feb. 22; v. 283; p. 689.
- Valve-operating mechanism. F. B. McLean. No. 1,395,851; Nov. 1.
- Valve-operating mechanism. A. G. Maranville. No. 1,386,579; Aug. 2; v. 289; p. 120.
- Valve-operating mechanism. E. H. Sherbondy. No. 1,365,735; Jan. 18; v. 282; p. 409.
- Valve-operating mechanism. A. K. Wood. No. 1,372,326; Mar. 22; v. 284; p. 657.
- Valve-operating mechanism, Hutch-. A. G. Rapp and L. M. Ewell. No. 1,395,009; Oct. 25.
- Valve or closure mechanism, Gas-apparatus. C. S. Chrisman. No. 1,368,229; Feb. 8; v. 283; p. 321.
- Valve, Overhead. W. H. and P. M. Payne. No. 1,377,523; May 10; v. 286; p. 274.
- Valve-packing grease. E. C. Weisgerber. No. 1,384,714; July 12; v. 288; p. 352.
- Valve packing-ring, Rotary-. F. E. Foulke. No. 1,392,752; Oct. 4.



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- Valve, Packingless. R. Solomon. No. 1,374,774; Apr. 12; v. 285; p. 311.
- Valve, Packless. W. M. Fulton. No. 1,381,818; June 14; v. 287; p. 336.
- Valve, Permutation-. C. S. Regenold. No. 1,365,543; Jan. 11; v. 282; p. 333.
- Valve, Pilot-. E. V. Anderson. No. 1,370,260; Mar. 1; v. 284; p. 96.
- Valve, Plate-. L. R. Huff. No. 1,375,252; Apr. 19; v. 285; p. 465.
- Valve, Plate-. W. Frellwitz. No. 1,385,147; July 19; v. 288; p. 623.
- Valve, Plate-. G. G. Tuttle. No. 1,376,484; May 3; v. 286; p. 20.
- Valve, Plate-. C. Wainwright. No. 1,390,941; Sept. 13; v. 290; p. 370.
- Valve-plug remover. M. Keating. No. 1,380,562; June 7; v. 287; p. 45.
- Valve, Plunger-. C. W. Lerner. No. 1,373,081; Mar. 29; v. 284; p. 846.
- Valve, Pneumatic. M. C. Schweinert. No. 1,382,389; June 21; v. 287; p. 503.
- Valve, Pressure-. P. W. Bolton. No. 1,367,452; Feb. 1; v. 283; p. 113.
- Valve, Pressure-controlled. T. Clarkson. No. 1,367,864; Feb. 8; v. 283; p. 251.
- Valve, Pressure-reducing. J. H. Derby. No. 1,379,904; May 31; v. 286; p. 926.
- Valve, Pressure-reducing. W. Dieter. No. 1,386,051; Aug. 2; v. 289; p. 18.
- Valve, Pressure-reducing. C. C. Hansen. No. 1,378,026; May 17; v. 286; p. 424.
- Valve, Pressure-regulating. E. J. Augustin. No. 1,392,617; Oct. 4.
- Valve, Protected. C. J. Jensen. No. 1,374,741; Apr. 12; v. 285; p. 301.
- Valve-puller. R. W. Brouhard and W. H. Donaldson. No. 1,381,890; June 14; v. 287; p. 350.
- Valve, Pump-. J. W. Sandlin. No. 1,365,856; Jan. 18; v. 282; p. 433.
- Valve, Pump-. M. Wagner. No. 1,379,492; May 24; v. 286; p. 775.
- Valve, Puppet-. C. A. Pfanstiehl. No. 1,393,726; Oct. 11.
- Valve, Radiator-. W. Haas and C. W. Ringelspaugh. No. 1,382,080; June 21; v. 287; p. 444.
- Valve-refacing tool. W. Rother. No. 1,387,666; Aug. 16; v. 289; p. 461.
- Valve regulator and making same. Float or. C. F. Burroughs. No. 1,396,926; Nov. 15.
- Valve-regulator, Automatic. L. E. Egar and N. C. L. Wilhelm. No. 1,397,680; Nov. 22.
- Valve, Relief-. T. A. Crompton, Jr. No. 1,371,866; Mar. 15; v. 284; p. 512.
- Valve, Relief-. H. W. Justus. No. 1,399,710; Dec. 6.
- Valve-remover. C. M. Axelson. No. 1,370,397; Mar. 1; v. 284; p. 121.
- Valve-remover. U. E. G. Johnson. No. 1,378,463; May 17; v. 286; p. 507.
- Valve-rescating tool. J. J. Donahue. No. 1,366,639; Jan. 25; v. 282; p. 631.
- Valve, Rotary. H. T. Dutter. No. 1,371,081; Mar. 8; v. 284; p. 297.
- Valve, Rotary. T. F. Scollard. No. 1,389,536; Aug. 30; v. 289; p. 944.
- Valve, Safety-. A. B. Carhart. No. 1,393,258; Oct. 11.
- Valve, Safety-. G. H. Clark. No. 1,380,094; May 31; v. 286; p. 963.
- Valve, Safety-. F. Fraccascia and J. Ercolani. No. 1,379,092; May 24; v. 286; p. 699.
- Valve, Safety-. C. Granby. No. 1,377,199; May 10; v. 286; p. 212.
- Valve, Safety-. S. J. Mozur. No. 1,376,565; May 3; v. 286; p. 35.
- Valve, Safety fire-stop. H. G. Maule. No. 1,373,902; Apr. 5; v. 285; p. 102.
- Valve-seat, Removable. D. T. Gray. No. 1,376,427; May 3; v. 286; p. 10.
- Valve-seat retainer. F. W. Parsons. No. 1,385,467; July 26; v. 288; p. 663.
- Valve-seats, Apparatus for forming. W. E. Coakley. No. 1,367,238; Feb. 1; v. 283; p. 71.
- Valve-seats, Forming. W. E. Coakley. No. 1,390,022; Sept. 6; v. 290; p. 93.
- Valve seater and trimmer. J. W. McGuigan and W. C. Roy. No. 1,386,640; Aug. 9; v. 289; p. 205.
- Valve-seating machine, Portable locomotive-. J. J. Mooney and R. E. Bennett. No. 1,385,344; July 19; v. 288; p. 561.
- Valve, Secondary. W. B. Woore. No. 1,383,180; June 28; v. 287; p. 707.
- Valve, Secondary. W. B. Woore. No. 1,383,272; June 28; v. 287; p. 724.
- Valve, Secondary attachment-. G. H. Wood. No. 1,368,204; Feb. 8; v. 283; p. 316.
- Valve, Self-aligning piston-. P. H. Steiner. No. 1,374,405; Apr. 12; v. 285; p. 239.
- Valve, Self-seating rotary. D. Ronconi. No. 1,382,857; June 28; v. 287; p. 646.
- Valve-silencer. F. Grinham. No. 1,390,529; Sept. 13; v. 290; p. 286.
- Valve-silencer. C. D. Stromgren. No. 1,395,064; Oct. 25.
- Valve, Sleeve-. J. H. Stockholder. No. 1,385,401; July 26; v. 288; p. 649.
- Valve-spring-compressing clamp. G. P. Webster. No. 1,374,694; Apr. 12; v. 285; p. 296.
- Valve-spring-compressing tool. H. W. Paine. No. 1,401,920; Dec. 27.
- Valve-spring compressor. H. W. Coddington. No. 1,400,027; Dec. 13.
- Valve-spring compressor and valve-grinding tool. J. E. O'Sullivan. No. 1,379,310; May 24; v. 286; p. 741.
- Valve spring, Exhaust-. T. S. Kemble. No. 1,368,439; Feb. 15; v. 283; p. 409.
- Valve-spring holder. W. A. Leahy. No. 1,384,472; July 12; v. 288; p. 301.
- Valve-spring lifter. L. J. Davies. No. 1,393,669; Oct. 11.
- Valve-spring lifter. J. F. Duby. No. 1,365,468; Jan. 11; v. 282; p. 318.
- Valve-spring lifter. E. E. Tibbets. No. 1,384,648; July 12; v. 288; p. 339.
- Valve-springs, Machine for compressing. G. C. Hill and F. Cooper. No. 1,386,334; Aug. 2; v. 289; p. 74.
- Valve-springs, Spring-releasing device for auto. C. F. Stevens. No. 1,369,987; Mar. 1; v. 284; p. 44.
- Valve, Steam-. L. R. Mertens. No. 1,383,005; June 28; v. 287; p. 674.
- Valve, Steam-engine. E. H. Holmes. No. 1,376,093; Apr. 26; v. 285; p. 658.
- Valve, Steam-engine. S. Rosenzweig. No. 1,381,340; June 14; v. 287; p. 245.
- Valve-stem attachment. M. T. Willey. No. 1,388,137; Aug. 16; v. 289; p. 554.
- Valve stem, Elastic-. P. Mueller and A. C. Schuermann. No. 1,394,756; Oct. 25.
- Valve-stem lock. H. C. Boggs. No. 1,366,114; Jan. 18; v. 282; p. 483.
- Valve-stem lubricator. J. R. Moore. No. 1,373,346; Mar. 29; v. 284; p. 899.
- Valve-stem packing. C. C. Hansen. No. 1,391,317; Sept. 20; v. 290; p. 508.
- Valve-stem-resurfacing tool. M. B. Skinner. No. 1,369,138; Feb. 22; v. 283; p. 585.
- Valve-stems, Cap for. H. Brenner. No. 1,379,676; May 31; v. 286; p. 884.
- Valve-stems, Dust-cap for inflating. E. M. Overbey. No. 1,367,084; Feb. 1; v. 283; p. 40.
- Valve-stems, Oiling device for. A. L. Nelson. No. 1,370,346; Mar. 1; v. 284; p. 112.
- Valve structure. J. Anderson. No. 1,389,474; Aug. 30; v. 289; p. 932.
- Valve structure. S. E. Derby. No. 1,400,424; Dec. 13.
- Valve structure. R. M. Pierson. No. 1,399,791; Dec. 13.
- Valve structure, Check-. W. J. Schlacks. No. 1,384,096; July 12; v. 288; p. 223.
- Valve structures, Renewing means for. F. Masters. No. 1,386,888; Aug. 9; v. 289; p. 256.
- Valve supervisory systems, Contact device for. R. M. Hopkins. No. 1,371,993; Mar. 15; v. 284; p. 536.
- Valve, Switching-. C. W. Kinter and G. Z. Smith. No. 1,394,738; Oct. 25.
- Valve, Tank-filling. J. W. Bozeman and J. T. Jones. No. 1,368,884; Feb. 15; v. 283; p. 496.
- Valve, tap, &c. J. H. Hay. No. 1,378,030; May 17; v. 286; p. 425.
- Valve-tappet. F. H. Bellmore. No. 1,401,234; Dec. 27.
- Valve-tappet. G. E. Grable. No. 1,366,788; Jan. 25; v. 282; p. 661.
- Valve tester, Flutter-. R. M. Graham. No. 1,368,498; Feb. 15; v. 283; p. 421.
- Valve-testing machine. W. H. McKenzie. No. 1,373,824; Apr. 5; v. 285; p. 87.
- Valve, Three-way. J. D. Benbow. No. 1,395,469; Nov. 1.
- Valve, Thermal. P. G. MacGregor. No. 1,371,043; Mar. 8; v. 284; p. 290.
- Valve, Thermostat-. A. C. Thompson and W. S. Robinett. No. 1,369,854; Mar. 1; v. 284; p. 19.
- Valve, Thermostatic. J. Gartside. No. 1,386,466; Aug. 2; v. 289; p. 98.
- Valve, Thermostatic. S. Lippert. No. 1,376,818; May 3; v. 286; p. 83.
- Valve, Thermostatic. R. N. Trane. No. 1,371,060; Mar. 8; v. 284; p. 293.
- Valve, Thermostatically-controlled. R. D. Smith. No. 1,383,573; July 5; v. 288; p. 65.
- Valve, Throttle-. C. J. Pilliod. No. 1,384,567; July 12; v. 288; p. 321.
- Valve-timing device. B. R. Van Valkenburg. No. 1,378,154; May 17; v. 286; p. 449.
- Valve-tool. W. A. Eskil. No. 1,382,491; June 21; v. 287; p. 523.
- Valve-tool. P. Madsen. No. 1,368,446; Feb. 15; v. 283; p. 411.
- Valve, Train-line. C. H. Weaver. No. 1,389,465; Aug. 30; v. 289; p. 930.
- Valve-tubes, Cap for. D. H. Cox. No. 1,392,746; Oct. 4.
- Valve-tubes, Dust-caps and sleeve for inflating. E. O. Collins. No. 1,393,316; Nov. 29.
- Valve, Turbine governor-. B. B. Lacy. No. 1,397,812; Nov. 22.
- Valve, Vent-. C. A. Olson. No. 1,365,720; Jan. 18; v. 282; p. 406.
- Valve, Vent-. J. Ulrich. No. 1,393,653; Oct. 11.



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- Valve, Ventilating-. A. F. Knowles. No. 1,380,567; June 7; v. 287; p. 46.
- Valve, Volume-regulating. J. L. Fitts. No. 1,401,468; Dec. 27.
- Valve, Water-closet. J. W. Martin. No. 1,365,931; Jan. 18; v. 282; p. 449.
- Valve, Water-supply. H. Gardenier. No. 1,365,906; Jan. 18; v. 282; p. 443.
- Valve-welding. F. H. Wobig. No. 1,366,108; Jan. 18; v. 282; p. 482.
- Valves. G. W. Thompson. No. 1,381,765; June 14; v. 287; p. 326.
- Valves, Automatic. A. Roszkowski. No. 1,364,144; Jan. 4; v. 282; p. 19.
- Valves, Device for grinding automobile-. F. B. Kraling. No. 1,396,763; Nov. 15.
- Valves, Device for removing puppet-. C. J. Bousfield. (Reissue.) No. 15,162; July 26; v. 288; p. 765.
- Valves, Dust-cap for pneumatic. J. N. Newsom. No. 1,370,474; Mar. 1; v. 284; p. 137.
- Valves, Electrically-operating mechanism for. L. Farnham. No. 1,371,153; Mar. 8; v. 284; p. 311.
- Valves of carbureters, Actuating means for throttle-. C. L. Sheppy. No. 1,397,987; Nov. 22.
- Valves of compression-cocks and the like, Valve-stem for the. J. H. Gavin. No. 1,392,411; Oct. 4.
- Valves, Hydraulic operating mechanism for. L. Farnham. No. 1,364,837; Jan. 4; v. 282; p. 152.
- Valves, Lift for flush-. M. C. Reno. No. 1,394,862; Oct. 25.
- Valves, Lock for. C. S. Cates and W. Peters. No. 1,377,668; May 10; v. 286; p. 302.
- Valves, Machine for grinding. G. C. Hill and F. Cooper. No. 1,374,504; Apr. 12; v. 285; p. 259.
- Valves, Making flexible sleeve-. W. Noble. No. 1,383,747; July 5; v. 288; p. 102.
- Valves, Push-rod connection for automobile-engine. R. L. Hughs. No. 1,379,343; May 24; v. 286; p. 748.
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- Valves, Spring-retainer for puppet-. W. C. Willard. No. 1,390,661; Sept. 13; v. 290; p. 314.
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- Vanadium-containing impact-tool for hot work. P. A. E. Armstrong. No. 1,388,157; Aug. 23; v. 289; p. 615.
- Vanadium from solutions, Recovering. L. S. Copelin. No. 1,392,745; Oct. 4.
- Vanadium, Recovering. A. H. Carpenter. No. 1,396,992; Nov. 15.
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- Valvular coupling. J. J. Holland. No. 1,373,505; Apr. 5; v. 285; p. 25.
- Vamp-trimming machine. C. C. Blake. No. 1,373,403; Apr. 5; v. 285; p. 4.
- Vanity-case. B. M. Schwab. No. 1,369,938; Mar. 1; v. 284; p. 35.
- Vanity-box. A. Vericel. No. 1,381,036; June 7; v. 287; p. 137.
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- Vanity-case for personal wear. M. H. Brosnan. No. 1,400,139; Dec. 13.
- Vapor-burner. J. F. MacKay. No. 1,389,259; Aug. 30; v. 289; p. 889.
- Vapor-burner. A. MacLennan. No. 1,381,210; June 14; v. 287; p. 222.
- Vapor-burner, Inclosed. J. Good. No. 1,394,894; Oct. 25.
- Vapor-generator. H. M. Sheer. No. 1,373,362; Mar. 29; v. 284; p. 902.
- Vapor, Means for conditioning. R. W. Hardie. No. 1,388,143; Aug. 16; v. 289; p. 555.
- Vapor-rectifier, Metal. B. B. Schäfer. No. 1,369,984; Mar. 1; v. 284; p. 91.
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- Vaporizer. W. M. Bowles. No. 1,371,730; Mar. 15; v. 284; p. 486.
- Vaporizer. J. F. and P. R. Friend. No. 1,378,780; May 17; v. 286; p. 568.
- Vaporizer. A. W. Griffin. No. 1,380,553; June 7; v. 287; p. 43.
- Vaporizer. J. F. Hamer. No. 1,385,680; July 26; v. 288; p. 707.
- Vaporizer. P. O. Rowlands. No. 1,400,377; Dec. 13.
- Vaporizer and burner, Electrical. N. D. Belinski. No. 1,375,646; Apr. 19; v. 285; p. 541.
- Vaporizer and burner, Hydrocarbon-oil. J. C. Kelly. No. 1,365,108; Jan. 11; v. 282; p. 248.
- Vaporizer and carburetor for liquid fuel, Combined. J. F. Beaumont and G. D. Moore. No. 1,365,651; Jan. 18; v. 282; p. 392.
- Vaporizer hydrocarbon-burner. A. W. Pattison. No. 1,383,015; June 28; v. 287; p. 676.
- Vaporizer, Oil-. J. J. Weithaus. No. 1,384,004; July 5; v. 288; p. 155.
- Vaporizer, Portable electric. H. Nagel. No. 1,378,266; May 17; v. 286; p. 470.
- Vaporizing apparatus. C. W. Snyder. No. 1,386,376; Aug. 2; v. 289; p. 81.
- Variable-speed constant-voltage generator. W. A. Turbayne. No. 1,382,257; June 21; v. 287; p. 477.
- Variometer. J. S. E. Townsend. No. 1,376,592; May 3; v. 286; p. 41.
- Varnish. F. S. Vivas. No. 1,369,858; Mar. 1; v. 284; p. 20.
- Varnish-catcher. V. Kukulka. No. 1,396,581; Nov. 8.
- Varnish, Fireproof. C. L. Saunders, G. C. Stanley, and C. W. Bennett. No. 1,399,026; Dec. 6.
- Varnish, lacquer, enamel, paint, and similar coatings from any objects or materials, Removal of. G. H. Mains. No. 1,381,485; June 14; v. 287; p. 272.
- Varnish materials, Making. W. F. Sterling, V. E. Grottsch, and F. P. Veitch. No. 1,395,874; Nov. 1.
- Varnish, paint, &c. Receptacle for. F. W. Plane. No. 1,396,053; Nov. 8.
- Varnished surfaces, Polish for. C. Rosenthal. No. 1,383,427; July 5; v. 288; p. 35.
- Varnished wood surfaces, Composition for refinishing, blemished. R. R. Bridges. No. 1,394,808; Oct. 25.
- Vat. See—  
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- Vault and safe door. E. H. Phipps. No. 1,376,355; Apr. 26; v. 285; p. 708.
- Vault and safe lock, Emergency. D. J. Condon. No. 1,398,628; Nov. 29.
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- Vault, Burial-. P. I. Frost. No. 1,390,121; Sept. 6; v. 290; p. 114.
- Vault, Burial-. L. Gates. No. 1,376,615; May 3; v. 286; p. 45.
- Vault, Burial-. T. F. Jeter. No. 1,391,386; Sept. 20; v. 290; p. 522.
- Vault, Burial-. P. W. Watson. No. 1,365,806; Jan. 18; v. 282; p. 424.
- Vault closure, Burial-. H. C. Sponhauer. No. 1,384,279; July 12; v. 288; p. 261.
- Vault, Concrete burial-. J. M. Schenk. No. 1,369,985; Mar. 1; v. 284; p. 44.
- Vault, Concrete grave-. J. E. Mitchell. No. 1,371,323; Mar. 15; v. 284; p. 407.
- Vault construction. E. H. Strauss. No. 1,376,839; May 3; v. 286; p. 87.
- Vault-cover. E. Burger. No. 1,377,802; May 10; v. 286; p. 329.
- Vault-lock. A. L. Davis. No. 1,375,134; Apr. 19; v. 285; p. 443.
- Vault, Sectional burial-. J. D. Barber. No. 1,393,485; Oct. 11.
- Vault, Steel burial-. A. J. Merkelbach. No. 1,383,139; June 28; v. 287; p. 699.
- Vaults, Door-lock for open-end. C. F. Unckrich. No. 1,375,645; Apr. 19; v. 285; p. 540.
- Vaults, Means for protecting. L. E. Bumpass. No. 1,374,055; Apr. 5; v. 285; p. 131.
- Vegetable and pastry cutter. O. C. Gilbert. No. 1,371,158; Mar. 8; v. 284; p. 311.
- Vegetable and fruit dispenser. F. Philipps. No. 1,388,198; Aug. 23; v. 289; p. 623.
- Vegetable-cleaner, &c. H. E. Collett. No. 1,388,630; Aug. 23; v. 289; p. 709.
- Vegetable-crusher. W. S. Andrysiak. No. 1,382,449; June 21; v. 287; p. 515.
- Vegetable-cutter. H. A. Stoddard and F. E. Callaban. No. 1,395,369; Nov. 1.
- Vegetable-cutting machine. J. Hartman. No. 1,378,451; May 17; v. 286; p. 504.
- Vegetable-grader. A. H. Parks. No. 1,379,715; May 31; v. 286; p. 892.
- Vegetable-grading apparatus. S. C. Rigney. No. 1,382,856; June 28; v. 287; p. 646.
- Vegetable-slicer. R. J. Cox. No. 1,371,865; Mar. 15; v. 284; p. 861.
- Vegetable-topping machine. W. B. Graham. No. 1,380,647; June 7; v. 287; p. 61.
- Vegetable-washer. O. S. Sells. No. 1,381,510; June 14; v. 287; p. 276.
- Vegetables and fruits, Drying. B. S. Harrison. No. 1,387,710; Aug. 16; v. 289; p. 471.
- Vegetables, Apparatus for blanching or cooking. E. J. Vaudreuil. No. 1,374,340; Apr. 12; v. 285; p. 226.
- Vegetables, Apparatus for cutting. R. A. Soler and J. G. Negrete. No. 1,386,970; Aug. 9; v. 289; p. 272.
- Vegetables, Apparatus for cutting. J. E. Kennedy. No. 1,395,426; Nov. 1.
- Vegetables, Apparatus for dipping. W. Dernell. No. 1,394,612; Oct. 25.
- Vegetables, Blanching or cooking. E. J. Vaudreuil. No. 1,374,341; Apr. 12; v. 285; p. 227.
- Vegetables, fruits, &c., Preserving. A. Faltelowitz. No. 1,399,471; Dec. 6.
- Vegetables, Preparing evaporated. R. S. Wittenberg. No. 1,372,112; Mar. 22; v. 284; p. 616.
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- Vehicle. J. H. Collins. No. 1,385,815; July 26; v. 288; p. 734.
- Vehicle. J. P. Coughlin. No. 1,379,745; May 31; v. 286; p. 897.
- Vehicle. B. W. Howard. No. 1,379,567; May 24; v. 286; p. 789.



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- Vehicle. J. C. Jones. No. 1,399,348; Dec. 6.  
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 Vehicle-buffer. W. H. Manning. No. 1,401,269; Dec. 27.  
 Vehicle. S. Mierzwinski. No. 1,369,043; Feb. 22; v. 283; p. 566.  
 Vehicle. H. R. Morwood. No. 1,397,174; Nov. 15.  
 Vehicle. R. T. Newton. No. 1,382,533; June 21; v. 287; p. 530.  
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 Vehicle. H. R. Read. No. 1,365,908; Jan. 11; v. 282; p. 231.  
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 Vehicle-bodies, Combined brace and angle-bar for. R. L. Kilpatrick. No. 1,373,563; Apr. 5; v. 285; p. 36.  
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 Vehicle-body. L. R. Snapp. No. 1,380,083; May 31; v. 286; p. 961.  
 Vehicle-body. H. A. Wieman. No. 1,372,854; Mar. 29; v. 284; p. 800.  
 Vehicle-body. G. W. Wilkins. No. 1,381,378; June 14; v. 287; p. 252.  
 Vehicle-body bearing. E. A. Laughlin. Nos. 1,396,687-9; Nov. 8.  
 Vehicle-body brace. W. B. Prouty. No. 1,365,341; Jan. 11; v. 282; p. 293.  
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 Vehicle-body, Convertible. F. Faillace. No. 1,385,909; July 26; v. 288; p. 752.  
 Vehicle-body, Convertible. E. L. Hamilton. No. 1,393,440; Oct. 11.  
 Vehicle-body, Convertible. T. J. Kehoe. No. 1,379,825; May 31; v. 286; p. 912.  
 Vehicle-body, Convertible. H. H. Poole. No. 1,367,669; Feb. 8; v. 283; p. 213.  
 Vehicle-body, Convertible. C. D. Williams. No. 1,377,164; May 3; v. 286; p. 149.  
 Vehicle-body-door construction. W. H. Emond. No. 1,387,773; Aug. 16; v. 289; p. 484.  
 Vehicle-body equalizing means. A. Kadow. No. 1,389,648; Sept. 6; v. 290; p. 18.  
 Vehicle-body hanger. A. Montel. No. 1,383,415; July 5; v. 288; p. 33.  
 Vehicle-body, Motor-. G. Shefts. No. 1,387,911; Aug. 16; v. 289; p. 511.  
 Vehicle-body supporter. C. E. Burnett. No. 1,375,556; Apr. 19; v. 285; p. 523.  
 Vehicle-body suspension. W. D. Harper. No. 1,366,796; Jan. 25; v. 282; p. 662.  
 Vehicle-bracket lubricator. C. T. Myers. No. 1,387,295; Aug. 9; v. 289; p. 336.  
 Vehicle-brake. W. R. Clark. No. 1,380,772; June 7; v. 287; p. 85.  
 Vehicle-brake. C. F. Crawford. No. 1,400,869; Dec. 20.  
 Vehicle-brake. H. Kimmet. No. 1,375,706; Apr. 26; v. 285; p. 584.  
 Vehicle-brake. F. B. Snyder. No. 1,401,005; Dec. 20.  
 Vehicle-brake. J. W. White, Jr. No. 1,372,166; Mar. 22; v. 284; p. 626.  
 Vehicle brake mechanism. F. Tamborello. No. 1,393,051; Oct. 11.  
 Vehicle-bumpers, Support for. J. R. Reyburn. No. 1,399,520; Dec. 6.  
 Vehicle-cab. A. Sauter. No. 1,378,726; May 17; v. 286; p. 558.  
 Vehicle, Camping-. F. Bain. No. 1,378,512; May 17; v. 286; p. 516.  
 Vehicle chassis, Motor-. C. A. Ward. No. 1,377,234; May 10; v. 286; p. 219.  
 Vehicle, Child's. E. Allen. No. 1,395,660; Nov. 1.  
 Vehicle, Child's. J. Behm. No. 1,364,686; Jan. 4; v. 282; p. 123.  
 Vehicle, Child's. W. N. Best. No. 1,391,165; Sept. 20; v. 290; p. 477.  
 Vehicle, Child's. C. C. Church. No. 1,364,612; Jan. 4; v. 282; p. 109.  
 Vehicle, Child's. R. McDowell. No. 1,391,554; Sept. 20; v. 290; p. 557.  
 Vehicle, Child's. E. J. Hemington. No. 1,373,814; Apr. 5; v. 285; p. 84.  
 Vehicle, Child's. J. Kucinski. No. 1,379,993; May 31; v. 286; p. 944.  
 Vehicle, Child's. H. G. Norwood. No. 1,373,631; Apr. 5; v. 285; p. 49.  
 Vehicle, Child's. R. J. Schneider. No. 1,392,973; Oct. 11.  
 Vehicle, Child's. C. Sollima. No. 1,400,326; Dec. 13.  
 Vehicle, Child's. A. T. Tirado. No. 1,385,761; July 26; v. 288; p. 723.  
 Vehicle, Child's. C. C. Williams. No. 1,386,827; Aug. 9; v. 289; p. 243.  
 Vehicle, Child's. M. B. Zimmerman. No. 1,381,954; June 21; v. 287; p. 421.  
 Vehicle, Child's convertible. L. Johns. No. 1,379,305; May 24; v. 286; p. 740.  
 Vehicle, Coaster-. J. E. Hoffman. No. 1,371,421; Mar. 15; v. 284; p. 427.  
 Vehicle, Coaster-. J. E. Hoffman. No. 1,373,004; Mar. 29; v. 284; p. 831.  
 Vehicle, Combination-. R. A. Mack. No. 1,386,346; Aug. 2; v. 289; p. 76.  
 Vehicle, Combined motor and animal-draft. J. Morrison. No. 1,396,652; Nov. 8.  
 Vehicle construction. E. G. Moses. No. 1,397,594; Nov. 22.  
 Vehicle construction. H. F. Townner. No. 1,397,747; Nov. 22.  
 Vehicle construction, Motor-. W. F. Hudson. No. 1,366,077; Jan. 18; v. 282; p. 476.  
 Vehicle construction, Cushioned connection for. A. F. Masury and A. H. Leipert. No. 1,400,563; Dec. 20.  
 Vehicle-control mechanism, Bumper-actuated. K. O. Schauman. No. 1,398,399; Nov. 29.  
 Vehicle-controlling mechanism, Motor-. D. M. Smith. No. 1,372,204; Mar. 22; v. 284; p. 634.  
 Vehicle, Convertible. S. E. Creasey. No. 1,388,028; Aug. 16; v. 289; p. 533.  
 Vehicle, Convertible. W. E. McLaren. No. 1,370,604; Mar. 8; v. 284; p. 206.  
 Vehicle, Convertible toy. A. G. Beck. No. 1,364,683; Jan. 4; v. 282; p. 123.  
 Vehicle, Convertible wheeled. D. Strauch. No. 1,382,566; June 21; v. 287; p. 536.  
 Vehicle, Convertible wheel or sleigh. F. B. Klock. No. 1,375,008; Apr. 19; v. 285; p. 418.  
 Vehicle-coupling. A. B. Cadman. No. 1,399,250; Dec. 6.  
 Vehicle curtain-container. H. W. Aills. No. 1,398,885; Nov. 29.  
 Vehicle direction-indicator. W. E. Jury. No. 1,392,171; Sept. 27; v. 290; p. 754.  
 Vehicle direction-indicator. J. Peyré. No. 1,374,605; Apr. 12; v. 285; p. 279.  
 Vehicle direction-indicator. J. Peyré. No. 1,390,381; Sept. 13; v. 290; p. 256.  
 Vehicle direction-indicator. G. Torricellas. No. 1,376,176; Apr. 26; v. 285; p. 673.  
 Vehicle direction-signal. E. L. Cuthbertson. No. 1,382,627; June 28; v. 287; p. 602.  
 Vehicle direction-signal. G. W. Markos. No. 1,379,117; May 24; v. 286; p. 705.  
 Vehicle-door handle. J. G. Kaefler. No. 1,397,426; Nov. 15.  
 Vehicle-drive. W. C. Klein. No. 1,393,543; Oct. 11.  
 Vehicle-drive. E. S. Miller. No. 1,394,328; Oct. 18.  
 Vehicle drive-axle. A. P. Brush. Nos. 1,401,580-81; Dec. 27.  
 Vehicle drive mechanism. J. Krohn. No. 1,399,019; Dec. 6.  
 Vehicle driving-gear. C. E. Starr. No. 1,370,378; Mar. 1; v. 284; p. 118.  
 Vehicle driving mechanism, Motor-. J. A. Stumpfenhorst. No. 1,396,074; Nov. 8.  
 Vehicle driving mechanism, Motor-. V. V. Torbenson. No. 1,397,495; Nov. 15.  
 Vehicle-dump. E. R. Benson and M. S. Crandall. No. 1,387,036; Aug. 9; v. 289; p. 285.  
 Vehicle-dump. J. R. Gridler. No. 1,383,934; July 5; v. 288; p. 140.  
 Vehicle, Dumping hoist-. H. B. Miller. No. 1,393,151; Oct. 11.



- Vehicle elevating and supporting devices. W. L. Wagner. No. 1,389,403; Aug. 30; v. 289; p. 917.
- Vehicle, Endless-track. E. Schneider. No. 1,276,648; May 3; v. 286; p. 51.
- Vehicle extension drive-shaft, Motor-. G. S. Davison. (Re-issue.) No. 15,149; July 12; v. 288; p. 356.
- Vehicles, Extricating device for motor-. J. E. Coggon. No. 1,379,585; May 24; v. 286; p. 793.
- Vehicle-fender. C. Candido. No. 1,368,387; Feb. 15; v. 283; p. 399.
- Vehicle-fender. M. B. Dimin. No. 1,392,625; Oct. 4.
- Vehicle-fender. A. J. Hersey. No. 1,382,911; June 28; v. 287; p. 656.
- Vehicle-fender. H. A. Kleine. No. 1,373,822; Apr. 5; v. 285; p. 86.
- Vehicle-fender mounting. G. G. Behn. No. 1,396,351; Nov. 8.
- Vehicle for children. L. Johns. No. 1,383,307; July 5; v. 288; p. 10.
- Vehicle for traversing marsh-lands, Motor-. M. Ray. No. 1,400,984; Dec. 20.
- Vehicle-frame suspension. C. Andreason. No. 1,393,599; Oct. 11.
- Vehicle-frames, Cushioning device and support for. L. E. Clawson. No. 1,390,021; Sept. 6; v. 290; p. 93.
- Vehicle front-wheel driving mechanism. M. P. Winther. No. 1,379,792; May 31; v. 286; p. 906.
- Vehicle having both wheels and endless tracks, Apparatus for throwing the wheels into and out of action of a. E. Rmailho. No. 1,395,144; Oct. 25.
- Vehicle head-lamp. T. W. Rolph. No. 1,366,946; Feb. 1; v. 283; p. 13.
- Vehicle-headlight. J. C. Ryan. No. 1,365,279; Jan. 11; v. 282; p. 282.
- Vehicle headlight, Motor-. F. G. Gauntt. No. 1,393,278; Oct. 11.
- Vehicle-boist. J. C. Boutte. No. 1,398,959; Dec. 6.
- Vehicle, Hoisting and dumping. E. Albrecht and W. H. Schussler. No. 1,377,611; May 10; v. 286; p. 291.
- Vehicle-hounds, Adjustable tongue attachment for. E. N. Childs. No. 1,377,814; May 10; v. 286; p. 235.
- Vehicle-jack. W. E. Burrows. No. 1,389,737; Sept. 6; v. 290; p. 36.
- Vehicle-jack. F. P. Connors. No. 1,399,691; Dec. 6.
- Vehicle, Land-. C. Ducker. No. 1,368,027; Feb. 8; v. 283; p. 281.
- Vehicle-lift. L. F. Nadig. No. 1,376,157; Apr. 26; v. 285; p. 670.
- Vehicle-lift. C. B. Roberts. No. 1,389,532; Aug. 30; v. 289; p. 943.
- Vehicle-lifting means. A. D. Lightner and E. Holmes. No. 1,376,445; May 3; v. 286; p. 13.
- Vehicle-light. N. Lawson. No. 1,382,203; June 21; v. 287; p. 467.
- Vehicle-light, Dirigible. J. F. Keller. No. 1,380,972; June 7; v. 287; p. 125.
- Vehicle-lock. L. E. Grant. No. 1,391,105; Sept. 20; v. 290; p. 465.
- Vehicle lock and brake. G. W. McKinny. No. 1,371,317; Mar. 15; v. 284; p. 405.
- Vehicle lock, Motor-. A. J. Amuedo. No. 1,365,215; Jan. 11; v. 282; p. 269.
- Vehicle lock, Motor-. B. Owen. No. 1,399,514; Dec. 6.
- Vehicle-locking device. A. J. Pichl. No. 1,365,949; Jan. 18; v. 282; p. 452.
- Vehicle, Locomotive and similar. F. Ljungström, I. Broberg, and E. O. Eriksson. No. 1,365,256; Jan. 11; v. 282; p. 277.
- Vehicle, more particularly a locomotive, with combustion-engine and liquid driving-gear. H. Schneider. No. 1,389,562; Aug. 30; v. 289; p. 949.
- Vehicle, Motor-. W. Barber. No. 1,370,580; Mar. 8; v. 284; p. 201.
- Vehicle, Motor-. H. D. Church. No. 1,369,915; Mar. 1; v. 284; p. 31.
- Vehicle, Motor-. H. D. Church. No. 1,374,058; Apr. 5; v. 285; p. 132.
- Vehicle, Motor-. H. D. Church. No. 1,401,043; Dec. 20.
- Vehicle, Motor-. H. S. Currier. No. 1,399,379; Dec. 6.
- Vehicle, Motor-. F. J. Druar. No. 1,374,066; Apr. 5; v. 285; p. 133.
- Vehicle, Motor-. F. J. Druar. No. 1,384,309; July 12; v. 288; p. 267.
- Vehicle, Motor-. S. I. Fekete and S. G. Baits. No. 1,380,097; May 31; v. 286; p. 964.
- Vehicle, Motor-. E. L. Fitz Gibbon. No. 1,394,076; Oct. 18.
- Vehicle, Motor-. A. G. Grice. No. 1,368,032; Feb. 8; v. 283; p. 282.
- Vehicle, Motor-. J. O. Heinze. No. 1,393,779; Oct. 18.
- Vehicle, Motor-. S. Khalil. No. 1,389,764; Sept. 6; v. 290; p. 41.
- Vehicle, Motor-. E. B. Jackson. No. 1,390,441; Sept. 13; v. 290; p. 268.
- Vehicle, Motor-. A. R. Lang. No. 1,383,644; July 5; v. 288; p. 80.
- Vehicle, Motor-. C. M. Manly. (Reissue.) No. 15,243; Dec. 6.
- Vehicle, Motor-. A. Moorhouse. No. 1,400,566; Dec. 20.
- Vehicle, Motor-. J. G. Owen. No. 1,386,354; Aug. 2; v. 289; p. 77.
- Vehicle, Motor-. A. J. Purdy. No. 1,384,087; July 12; v. 288; p. 221.
- Vehicle, Motor-. J. F. Shawhan. No. 1,387,076; Aug. 9; v. 289; p. 293.
- Vehicle, Motor-. B. H. Smith. No. 1,370,374; Mar. 1; v. 284; p. 117.
- Vehicle, Motor-. D. G. Stanbrough. No. 1,391,864; Sept. 27; v. 290; p. 692.
- Vehicle, Motor-. M. Tibbetts. No. 1,369,946; Mar. 1; v. 284; p. 36.
- Vehicle, Motor-. M. Tibbetts. No. 1,377,861; May 10; v. 286; p. 340.
- Vehicle, Motor-. J. G. Vincent. No. 1,384,283; July 12; v. 288; p. 262.
- Vehicle, Motor-. J. G. Vincent. No. 1,399,093; Dec. 6.
- Vehicle, Motor-. M. A. Whelan. No. 1,377,237; May 10; v. 286; p. 219.
- Vehicle, Motor-. C. E. Wright. No. 1,366,235; Jan. 18; v. 282; p. 508.
- Vehicle, Motor-driven. J. B. Foote. No. 1,382,280; June 21; v. 287; p. 482.
- Vehicle, Motor-driven. R. E. Kerlin. No. 1,391,834; Sept. 27; v. 290; p. 686.
- Vehicle, Motor parcel-. C. M. Billings. No. 1,393,005; Oct. 11.
- Vehicle, Occupant-propelled sliding. C. Dahl. No. 1,377,402; May 10; v. 286; p. 252.
- Vehicle of the motor-truck type, Road-. N. Milner. No. 1,384,269; July 12; v. 288; p. 259.
- Vehicle of the self-laying-track type. F. Reddaway. No. 1,400,100; Dec. 13.
- Vehicle or the like, Dumping-. I. F. Avery. No. 1,365,810; Jan. 18; v. 282; p. 424.
- Vehicle propulsion mechanism. F. Rasputnik. No. 1,383,661; July 5; v. 288; p. 83.
- Vehicle, Pulling attachment for motor-. E. Ludescher. No. 1,401,263; Dec. 27.
- Vehicle, Refuse-. W. W. Harris. No. 1,400,543; Dec. 20.
- Vehicle, Refuse-collection. A. Fernández. No. 1,379,007; May 24; v. 286; p. 684.
- Vehicle-reverse lock. D. Mizruchy. No. 1,399,509; Dec. 6.
- Vehicle-rim. C. B. Keenum. No. 1,389,649; Sept. 6; v. 290; p. 18.
- Vehicle safety device. S. Rothauski. No. 1,382,858; June 28; v. 287; p. 646.
- Vehicle-seat. G. V. Barnes. No. 1,379,076; May 24; v. 286; p. 696.
- Vehicle-seat, Adjustable. D. A. Merideth. No. 1,375,058; Apr. 19; v. 285; p. 428.
- Vehicle-seat support. R. Carter, Jr. No. 1,390,506; Sept. 13; v. 290; p. 281.
- Vehicle, Seesaw and toy. T. B. Keogh and L. F. Caumont. No. 1,396,437; Nov. 8.
- Vehicle, Self-laying-track. W. Turnbull. No. 1,379,323; May 24; v. 286; p. 744.
- Vehicle, Self-loading. J. B. Von Canon. Nos. 1,397,993-4; Nov. 22.
- Vehicle, Self-steering. H. M. Woolley, Jr., and D. J. McKean. No. 1,387,091; Aug. 9; v. 289; p. 297.
- Vehicle-signal. V. R. Barnes. No. 1,378,312; May 17; v. 286; p. 478.
- Vehicle-signal. A. A. Dennis. No. 1,364,485; Jan. 4; v. 282; p. 85.
- Vehicle-signal. J. L. Du Frane. No. 1,382,767; June 28; v. 287; p. 629.
- Vehicle-signal. F. L. Elder. No. 1,366,724; Jan. 25; v. 282; p. 648.
- Vehicle-signal. J. G. Frieman. No. 1,399,339; Dec. 6.
- Vehicle-signal. C. H. Georger. No. 1,394,000; Oct. 18.
- Vehicle-signal. H. H. Hunt. No. 1,396,212; Nov. 8.
- Vehicle-signal. W. H. Learmont. No. 1,398,641; Nov. 29.
- Vehicle-signal. P. Myers. No. 1,364,130; Jan. 4; v. 282; p. 16.
- Vehicle-signal. C. H. Osman. No. 1,379,475; May 24; v. 286; p. 772.
- Vehicle-signal. C. A. Perkins. No. 1,397,778; Nov. 22.
- Vehicle-signal. J. Popowich. No. 1,379,211; May 24; v. 286; p. 722.
- Vehicle-signal. R. Reynolds. No. 1,367,989; Feb. 8; v. 283; p. 274.
- Vehicle-signal. T. Turner, J. E. Kessler, and W. L. Higgins. No. 1,388,675; Aug. 23; v. 289; p. 718.
- Vehicle signal and searchlight, Combined. R. E. Hines, W. J. Dellert, and J. A. Staehle. No. 1,380,905; June 7; v. 287; p. 111.
- Vehicle signal device. D. B. Spatz. No. 1,386,906; Aug. 9; v. 289; p. 260.
- Vehicle signal device. L. Stottmeister. No. 1,365,744; Jan. 18; v. 282; p. 411.
- Vehicle signaling apparatus. E. W. Swartwout. No. 1,365,127; Jan. 11; v. 282; p. 252.
- Vehicle signaling-crane. R. L. Johnson. No. 1,377,488; May 10; v. 286; p. 269.
- Vehicle signaling device. N. J. Klohn. No. 1,377,691; May 10; v. 286; p. 306.
- Vehicle signaling device, Motor-. C. H. Grings. No. 1,373,808; Apr. 5; v. 285; p. 83.
- Vehicle-spoke covers, Means for attaching. W. Blair. No. 1,390,425; Sept. 13; v. 290; p. 265.
- Vehicle-spring. W. M. Beatty. No. 1,396,549; Nov. 8.
- Vehicle-spring. F. Börminghaus. No. 1,388,695; Aug. 23; v. 289; p. 721.
- Vehicle-spring. F. R. Chaudet. No. 1,393,088; Oct. 11.



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- Vehicle-spring. F. V. Cooke. No. 1,369,009; Feb. 22; v. 283; p. 560.
- Vehicle-spring. J. C. Dowd. No. 1,392,680; Oct. 4.
- Vehicle-spring. C. Freihofer. No. 1,387,375; Aug. 9; v. 289; p. 353.
- Vehicle-spring. C. A. Hunt. No. 1,389,135; Aug. 30; v. 289; p. 864.
- Vehicle-spring. N. E. Lieberg. No. 1,400,612; Dec. 20.
- Vehicle-spring. H. W. Linaburry. No. 1,368,514; Feb. 15; v. 283; p. 424.
- Vehicle-spring. O. Peterson. No. 1,386,200; Aug. 2; v. 289; p. 48.
- Vehicle-spring. H. E. Smith. No. 1,392,974; Oct. 11.
- Vehicle-spring. J. E. Simmons. No. 1,379,223; May 24; v. 286; p. 724.
- Vehicle-spring. L. I. Thompson. No. 1,374,780; Apr. 12; v. 285; p. 312.
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- Vehicle-spring. S. A. Threlkeld. No. 1,391,644; Sept. 20; v. 290; p. 574.
- Vehicle-spring. T. H. Wickenden. No. 1,371,284; Mar. 15; v. 284; p. 399.
- Vehicle-spring and mounting therefor. D. T. Brownlee. No. 1,364,701; Jan. 4; v. 282; p. 126.
- Vehicle-spring, Attachable. E. R. Ritter. No. 1,387,615; Aug. 16; v. 289; p. 452.
- Vehicle, Spring-motor. B. C. Gray. No. 1,381,870; June 14; v. 287; p. 346.
- Vehicle spring, Motor-. W. M. Petty. No. 1,377,430; May 10; v. 286; p. 258.
- Vehicle-spring-retaining means. E. F. Burgess. No. 1,379,798; May 31; v. 286; p. 907.
- Vehicle spring suspension. R. W. Beckman. No. 1,373,940; Apr. 5; v. 285; p. 110.
- Vehicle spring suspension. T. L. Cowles. No. 1,372,120; Mar. 22; v. 284; p. 617.
- Vehicle spring suspension. W. B. Lowe. No. 1,396,044; Nov. 8.
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- Vehicle spring-wheel. W. A. Harris. No. 1,366,450; Jan. 25; v. 282; p. 593.
- Vehicle-springs, Automatic tension-regulator for. N. L. Olson. No. 1,380,409; June 7; v. 287; p. 16.
- Vehicle-springs, Device for enhancing the resiliency of. T. J. Priestley, Jr. No. 1,373,527; Apr. 5; v. 285; p. 29.
- Vehicle-springs, Device for facilitating the lubrication of. G. L. E. Klingbeil. No. 1,374,583; Apr. 12; v. 285; p. 274.
- Vehicle-springs, Device for facilitating the lubrication of. G. L. E. Klingbeil. No. 1,382,653; June 28; v. 287; p. 607.
- Vehicle-springs, Load-equalizer for. J. O. Twinberrow. No. 1,373,109; Mar. 29; v. 284; p. 851.
- Vehicle steam-engine boiler. L. S. Powell. No. 1,367,093; Feb. 1; v. 283; p. 42.
- Vehicle, Steam-propelled. J. A. Doble. No. 1,364,488; Jan. 4; v. 282; p. 86.
- Vehicle steering-gear, Motor-. D. C. Williams. No. 1,366,991; Feb. 1; v. 283; p. 21.
- Vehicle steering mechanism. D. E. Hennessy and J. McGeorge. No. 1,382,909; June 28; v. 287; p. 656.
- Vehicle steering mechanism. L. C. Vanderlip. No. 1,395,314; Nov. 1.
- Vehicle steering mechanism. L. C. Vanderlip. No. 1,396,078; Nov. 8.
- Vehicle suspension means. F. Cornelison. No. 1,397,922; Nov. 22.
- Vehicle-tank construction. A. A. Kramer. No. 1,390,045; Sept. 6; v. 290; p. 88.
- Vehicle-tank structure. A. A. Kramer. No. 1,394,742; Oct. 25.
- Vehicle, Three-wheeled self-propelled. A. Biagi and G. Casalis. No. 1,371,842; Mar. 15; v. 284; p. 508.
- Vehicle-tilting dumping-platform. A. F. Kezema. No. 1,389,052; Aug. 30; v. 289; p. 848.
- Vehicle, Tip-. W. Barnett and J. Florendine. No. 1,383,513; July 5; v. 288; p. 52.
- Vehicle-top. C. R. Allen. No. 1,379,893; May 31; v. 286; p. 925.
- Vehicle-top. F. H. Hall. No. 1,392,274; Sept. 27; v. 290; p. 775.
- Vehicle-top. F. H. Hall. No. 1,392,275; Sept. 27; v. 290; p. 775.
- Vehicle-top. J. E. Karl. No. 1,371,626; Mar. 15; v. 284; p. 467.
- Vehicle-top. A. H. Lichter. No. 1,389,671; Sept. 6; v. 290; p. 23.
- Vehicle-top. W. P. McKorkindale. No. 1,395,129; Oct. 25.
- Vehicle-top. M. Zutman. No. 1,390,418; Sept. 13; v. 290; p. 264.
- Vehicle-top attachment. J. H. Tabler. No. 1,365,010; Jan. 11; v. 282; p. 231.
- Vehicle-top attachment. D. C. Watt and F. A. Grearson. No. 1,376,491; May 3; v. 286; p. 21.
- Vehicle-top frame. E. Lover. No. 1,385,138; July 19; v. 288; p. 621.
- Vehicle-top support. C. R. Allen. No. 1,374,627; Apr. 12; v. 285; p. 283.
- Vehicle tops, Slip-cover for motor-. L. K. Snell. No. 1,381,141; June 14; v. 287; p. 209.
- Vehicle-tops, Window-sash tightener for. D. R. Jenkins. No. 1,401,606; Dec. 27.
- Vehicle, Trackless power-driven. A. E. Arons. No. 1,392,904; Oct. 11.
- Vehicle, Tractor. E. Schneider. No. 1,376,649; May 3; v. 286; p. 51.
- Vehicle, Tractor or other automotive. E. E. Chandler. No. 1,376,921; May 3; v. 286; p. 103.
- Vehicle, trailed power, Motor-. H. Wilcox. No. 1,387,820; Aug. 16; v. 289; p. 493.
- Vehicle trailed power, Motor-. H. Wilcox. No. 1,401,661; Dec. 27.
- Vehicle-train and vehicle. J. W. Collier. No. 1,391,760; Sept. 27; v. 290; p. 671.
- Vehicle-travel, Mechanism for computing. A. S. Richey. No. 1,369,471; Feb. 22; v. 283; p. 649.
- Vehicle turner, Motor-. V. E. Funkhouser and A. M. Meyers. No. 1,394,489; Oct. 18.
- Vehicle, Two-wheeled draft-. C. Hasking. No. 1,396,754; Nov. 15.
- Vehicle-wheel. R. A. Alger. No. 1,386,086; Aug. 2; v. 289; p. 25.
- Vehicle-wheel. W. N. Allan. No. 1,364,824; Jan. 4; v. 282; p. 149.
- Vehicle-wheel. W. N. Allan. No. 1,374,798; Apr. 12; v. 285; p. 315.
- Vehicle-wheel. W. N. Allan. No. 1,389,472; Aug. 30; v. 289; p. 931.
- Vehicle-wheel. W. N. Allan. No. 1,389,473; Aug. 30; v. 289; p. 931.
- Vehicle-wheel. A. W. Althoff. No. 1,389,285; Aug. 30; v. 289; p. 894.
- Vehicle-wheel. E. D. Beaumont. No. 1,394,882; Oct. 25.
- Vehicle-wheel. G. B. Bell. No. 1,399,331; Dec. 6.
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- Vehicle-wheel. J. L. Cohen. No. 1,389,629; Sept. 6; v. 290; p. 14.
- Vehicle-wheel. J. L. Cohen. No. 1,389,938; Sept. 6; v. 290; p. 77.
- Vehicle-wheel. D. Collins. No. 1,393,504; Oct. 11.
- Vehicle-wheel. C. S. Crawford. No. 1,381,859; June 14; v. 287; p. 343.
- Vehicle-wheel. W. W. De Long and J. A. Rook. No. 1,394,286; Oct. 18.
- Vehicle-wheel. W. H. Dundore. No. 1,400,807; Dec. 20.
- Vehicle-wheel. A. E. Ellis. No. 1,395,099; Oct. 25.
- Vehicle-wheel. A. Elten, Jr. No. 1,371,551; Mar. 15; v. 284; p. 453.
- Vehicle-wheel. A. Elten, Jr. No. 1,371,552; Mar. 15; v. 284; p. 453.
- Vehicle-wheel. A. B. Fuhr. No. 1,387,148; Aug. 9; v. 289; p. 304.
- Vehicle-wheel. G. S. Gallagher and G. Schadee. (Re-issue.) No. 15,191; Sept. 13; v. 290; p. 377.
- Vehicle-wheel. E. C. Gaspard. No. 1,380,138; May 31; v. 286; p. 971.
- Vehicle-wheel. J. G. Hartman. No. 1,381,828; June 14; v. 287; p. 337.
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- Vehicle-wheel. J. Hoffman. No. 1,385,171; July 19; v. 288; p. 527.
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- Vehicle-wheel. C. Macbeth. No. 1,365,637; Jan. 11; v. 282; p. 350.
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- Vehicle-wheel. V. M. Moore. No. 1,375,718; Apr. 26; v. 285; p. 587.
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- Vehicle-wheel. R. W. Padden. No. 1,393,694; Oct. 11.
- Vehicle-wheel. S. M. Perry. No. 1,396,283; Nov. 8.
- Vehicle-wheel. A. L. Putnam. No. 1,380,925; June 7; v. 287; p. 115.



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- Vehicle-wheel. A. L. Putnam. No. 1,388,665; Aug. 23; v. 289; p. 716.
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- Vehicle-wheel. A. H. Shoemaker. No. 1,372,983; Mar. 29; v. 284; p. 927.
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- Vehicle-wheel. R. S. Wilcox. No. 1,401,845; Dec. 27.
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- Vehicle-wheel and forming the same. W. N. Booth. No. 1,368,234; Feb. 15; v. 283; p. 369.
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- Vehicle wheel and tire. D. B. and C. W. Spencer. No. 1,401,450; Dec. 27.
- Vehicle-wheel attachment. M. M. Rodriguez. No. 1,370,364; Mar. 1; v. 284; p. 115.
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- Vehicle-wheel hub. E. B. Wagner. No. 1,400,112; Dec. 13.
- Vehicle-wheel lock. J. L. Raney. No. 1,376,114; Apr. 26; v. 285; p. 662.
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- Vehicle-wheel rim. M. W. Grigsby. No. 1,391,472; Sept. 20; v. 290; p. 540.
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- Vehicle-wheels, Antiskid attachment for. S. G. Silberman. No. 1,378,289; May 17; v. 286; p. 474.
- Vehicle-wheels, Antiskid device for. W. H. Crane. No. 1,398,538; Nov. 29.
- Vehicle-wheels, Antislip device for. F. W. Smith. No. 1,374,328; Apr. 12; v. 285; p. 224.
- Vehicle-wheels, Antislipping attachment for. C. Moss. No. 1,393,810; Oct. 18.
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- Vehicle-wheels, Auxiliary tread element for. E. S. Howard. No. 1,385,918; July 26; v. 288; p. 754.
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- Vehicle-wheels, Non-skid appendage for. A. F. Gillet. No. 1,371,237; Mar. 15; v. 284; p. 380.
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- Vehicle-wheels, Oil-cap for. A. J. Crotty. No. 1,400,871; Dec. 20.
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- Vehicles, Accident-preventing attachment for. E. J. Putterer. No. 1,386,172; Aug. 2; v. 289; p. 42.
- Vehicles, Advertising device for. F. W. Gerken. No. 1,371,678; Mar. 15; v. 284; p. 477.
- Vehicles, Anchoring device for wheeled. W. W. Blakely. No. 1,401,389; Dec. 27.
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- Vehicles and the like, Direction indicator or signal for motor-. J. C. Colburn. No. 1,375,628; Apr. 19; v. 285; p. 537.
- Vehicles, Antiskid attachment for. O. J. Schoenborn. No. 1,388,066; Aug. 16; v. 289; p. 540.
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- Vehicles, Attachment for motor-. H. B. Hollifield. No. 1,395,111; Oct. 25.
- Vehicles, Attachment for steering mechanism of motor-driven. H. L. Schuler. No. 1,375,419; Apr. 19; v. 285; p. 497.
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- Vehicles, Auxiliary traction device for motor-. A. H. Geddes. No. 1,398,015; Nov. 22.
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- Vehicles, Bracket for. I. A. Sibley, Jr. No. 1,376,044; Apr. 26; v. 285; p. 648.
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- Vehicles, Collapsible top-frame for. G. L. Smith. No. 1,390,220; Sept. 6; v. 290; p. 132.
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- Vehicles, Direction-indicator for. T. F. Goodwin. No. 1,400,601; Dec. 20.
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- Vehicles, Direction-indicator for motor-. C. L. Bossolt. No. 1,391,937; Sept. 27; v. 290; p. 707.
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- Vehicles, Direction-indicator for motor-. A. J. Schroepfer. No. 1,370,846; Mar. 8; v. 284; p. 853.
- Vehicles, Direction-indicator for motor-driven. O. O. Adams. No. 1,383,181; June 23; v. 287; p. 707.
- Vehicles, Direction-signal for. J. B. Rawlings. No. 1,369,354; Feb. 22; v. 283; p. 626.
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- Vehicles, Disk wheel for. R. C. Hoffman. No. 1,376,938; May 3; v. 286; p. 107.
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- Vehicles, Draft-deflector for motor-. M. E. Francisco. No. 1,380,471; June 7; v. 287; p. 28.
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- Vehicles, Drive for motor-. G. Midboe. No. 1,372,627; Mar. 22; v. 284; p. 714.
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- Vehicles, Driving-axle mechanism for road-wheels of motor-. W. Martinson. No. 1,367,616; Feb. 8; v. 283; p. 203.
- Vehicles, Driving mechanism for motor-. L. A. De More. No. 1,387,477; Aug. 16; v. 289; p. 423.
- Vehicles, Driving mechanism for motor-. S. Midboe. No. 1,373,142; Mar. 29; v. 284; p. 858.
- Vehicles, Driving mechanism for motor-. V. V. Torben-son. No. 1,397,491; Nov. 15.
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- Vehicles, Electric attachment for motor-. J. Blackburn. No. 1,366,553; Jan. 25; v. 282; p. 614.
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- Vehicles, Electric generator for motor-. J. Gambs. No. 1,391,679; Sept. 27; v. 290; p. 655.
- Vehicles, Electric lamp for. P. O. Dorer. No. 1,399,940; Dec. 13.
- Vehicles, Electric lighting and starting system for motor-. F. W. Springer. No. 1,370,162; Mar. 1; v. 284; p. 77.
- Vehicles, Electric system for motor-. L. M. Wolfsohn. No. 1,393,596; Oct. 11.
- Vehicles, Electrical apparatus for motor-. J. Bijur. No. 1,375,998; Apr. 26; v. 285; p. 639.
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- Vehicles, Electrically-operated horn for motor-. G. Frecheville. No. 1,373,496; Apr. 5; v. 285; p. 23.
- Vehicles, Emergency-brake for. C. L. McDonald. No. 1,385,877; July 26; v. 288; p. 747.
- Vehicles, End-gate for. W. Sanderson. No. 1,376,733; May 3; v. 286; p. 66.
- Vehicles, Endless-track arrangement for. G. Hageloch. No. 1,386,926; Aug. 9; v. 289; p. 263.
- Vehicles, Endless-track mechanism for. A. B. Webb. No. 1,399,369; Dec. 6.
- Vehicles, Exhaust-heater fitting for motor-propelled. C. S. Pelton. No. 1,365,847; Jan. 18; v. 282; p. 432.
- Vehicles, Exhaust-whistle for motor-. E. L. Cruise. No. 1,378,840; May 24; v. 286; p. 652.
- Vehicles, Final drive for motor-. M. C. Frins. No. 1,386,614; Aug. 9; v. 289; p. 200.
- Vehicles, Fluid-compressor for motor-. O. E. Hunt. No. 1,394,835; Oct. 25.
- Vehicles, Folding or collapsible head or hood of. A. S. Cheston. No. 1,391,369; Sept. 20; v. 290; p. 519.
- Vehicles, Front-wheel drive for. S. T. Hoener. No. 1,394,013; Oct. 18.
- Vehicles, Front-wheel steering mechanism for motor-. W. Haylor. No. 1,390,903; Sept. 13; v. 290; p. 362.
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- Vehicles, Headlight for. F. O. and P. A. Linstrom. No. 1,392,424; Oct. 4.
- Vehicles, Headlight for. V. A. Quagliano. No. 1,388,891; Aug. 30; v. 289; p. 815.
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- Vehicles, Hub-flange for motor-. J. L. Hannegan. No. 1,381,635; June 14; v. 287; p. 300.
- Vehicles, Interchangeable hub for motor-. E. E. McIntyre. No. 1,375,223; Apr. 19; v. 285; p. 460.
- Vehicles, Jack for motor-driven. E. M. Scott. No. 1,382,250; June 21; v. 287; p. 476.
- Vehicles, Jacking attachment for motor-. J. H. Igo. No. 1,375,515; Apr. 19; v. 285; p. 515.
- Vehicles, Lamp-supporting means for motor-. G. E. Goddard. No. 1,399,055; Dec. 6.
- Vehicles, License-indicator for motor-. M. J. Gorman. No. 1,381,117; June 14; v. 287; p. 205.
- Vehicles, Life-saving guard for steam and motor road-. G. L. Savington. No. 1,386,938; Aug. 9; v. 289; p. 266.
- Vehicles, Lift for motor-. J. H. Fangmann. No. 1,390,109; Sept. 6; v. 290; p. 111.
- Vehicles, Lighting-. M. Arendt. No. 1,366,629; Jan. 25; v. 282; p. 629.
- Vehicles, Lighting device for motor-. R. B. Benjamin. No. 1,381,391; June 14; v. 287; p. 255.
- Vehicles, Lighting system for. B. J. Grigsby. No. 1,367,961; Feb. 8; v. 283; p. 269.
- Vehicles, Lighting system for motor-. C. H. Voss. No. 1,376,237; Apr. 26; v. 285; p. 685.
- Vehicles, Lighting system of. D. Macdonald. No. 1,378,885; May 24; v. 286; p. 661.
- Vehicles, Live axle and countershaft for motor-. J. F. Buckingham. No. 1,381,063; June 7; v. 287; p. 142.
- Vehicles, Load-binder for. M. E. Saunders. No. 1,375,183; Apr. 19; v. 285; p. 452.
- Vehicles, Loading and unloading apparatus for. V. L. J. Bourgeois. No. 1,391,607; Sept. 20; v. 290; p. 567.
- Vehicles, Lock for motor-. J. H. Igo and W. T. McKay. No. 1,387,156; Aug. 9; v. 289; p. 308.
- Vehicles, Lock for motor-driven. C. N. Addis. No. 1,400,507; Dec. 20.
- Vehicles, Lockable steering-wheel for motor-. J. Lawson. No. 1,383,550; July 5; v. 288; p. 60.
- Vehicles, Locking device for. C. C. Epps. No. 1,376,085; Apr. 26; v. 285; p. 657.
- Vehicles, Locking device for. E. Setkowski. No. 1,396,067; Nov. 8.
- Vehicles, Locking device for motor-. R. Baer and H. Kopp. No. 1,391,358; Sept. 20; v. 290; p. 517.



- Vehicles, Locking device for motor-. R. E. Harris. No. 1,376,876; May 3; v. 286; p. 95.
- Vehicles, Locking device for motor-. R. E. Harris. No. 1,382,189; June 21; v. 287; p. 464.
- Vehicles, Locking device for motor-. R. E. Harris. No. 1,382,190; June 21; v. 287; p. 464.
- Vehicles, Locking device for motor-. D. M. Tiller. No. 1,386,543; Aug. 2; v. 289; p. 113.
- Vehicles, Locking device for use with road-. W. J. N. Mann. No. 1,391,687; Sept. 27; v. 290; p. 656.
- Vehicles, Locking mechanism for motor-. J. J. Jordan. No. 1,370,970; Mar. 8; v. 284; p. 276.
- Vehicles, Luggage-carrier for. W. W. Wooster. No. 1,370,253; Mar. 1; v. 284; p. 95.
- Vehicles, marine vessels, or aircraft, Propelling device for use on. E. Morize. No. 1,375,601; Apr. 19; v. 285; p. 531.
- Vehicles, Means for lubricating steering-knuckles of. F. H. Gleason. No. 1,388,945; Aug. 30; v. 289; p. 826.
- Vehicles, Means for storing. P. B. Cole. No. 1,378,168; May 17; v. 286; p. 451.
- Vehicles, Means for suspending endless-track. P. L. Leisse. No. 1,367,060; Feb. 1; v. 283; p. 36.
- Vehicles, Means of suspension of. G. J. Rackham. No. 1,379,836; May 31; v. 286; p. 914.
- Vehicles, Means for suspension of engines in motor-. I. M. Jacobs. No. 1,398,024; Nov. 22.
- Vehicles, Non-skid attachment for. N. M. McDaniel. No. 1,398,942; Nov. 29.
- Vehicles, Non-skid device for motor and other. A. C. Norman. No. 1,381,001; June 7; v. 287; p. 130.
- Vehicles, Oil-level indicator for motor-. C. R. Short. No. 1,386,903; Aug. 9; v. 289; p. 259.
- Vehicles, Operating mechanism for power-driven. A. Zoller. No. 1,395,993; Nov. 1.
- Vehicles, Platform-spring attachment for motor-. J. Zapf. No. 1,380,511; June 7; v. 287; p. 35.
- Vehicles, Pneumatic spring support for motor-. F. Schmidt. No. 1,371,648; Mar. 15; v. 284; p. 471.
- Vehicles, Pneumatic springing of. F. S. Farnsworth. No. 1,364,294; Jan. 4; v. 282; p. 49.
- Vehicles, Pocket attachment for. J. M. White. No. 1,401,660; Dec. 27.
- Vehicles, Power control for motor-. J. M. Lansden. No. 1,397,130; Nov. 15.
- Vehicles, Power-driving attachment for automotive. R. A. Jacobson. No. 1,371,375; Mar. 15; v. 284; p. 417.
- Vehicles, Power-transmitting mechanism for motor-. R. E. Joyce. No. 1,390,716; Sept. 13; v. 290; p. 324.
- Vehicles, Propelling mechanism for. J. R. Broach. No. 1,389,735; Sept. 6; v. 290; p. 35.
- Vehicles, Propulsion means for. W. H. French. No. 1,392,565; Oct. 4.
- Vehicles, Pump for motor-. S. A. Strickland. No. 1,376,903; May 3; v. 286; p. 100.
- Vehicles, Pushing device for motor-. F. Carlson. No. 1,378,321; May 17; v. 286; p. 480.
- Vehicles, Radiator for motor-. H. Jaffe. No. 1,390,616; Sept. 13; v. 290; p. 304.
- Vehicles, Radiator for motor-. J. G. Vincent. No. 1,384,285; July 12; v. 288; p. 262.
- Vehicles, Radiator for motor-. R. M. Zarucha. No. 1,393,479; Oct. 11.
- Vehicles, Radiator-shield for motor-. E. A. Evers. No. 1,369,228; Feb. 22; v. 283; p. 602.
- Vehicles, Rear-axle clutch-gear for motor-. I. Stephens and F. W. Evans. No. 1,368,856; Feb. 15; v. 283; p. 491.
- Vehicles, Rear-axle construction for motor-. J. A. Whitcomb and R. Koehler. No. 1,370,247; Mar. 1; v. 284; p. 94.
- Vehicles, Rear-axle drive for motor-. O. S. Pulliam. No. 1,371,809; Mar. 15; v. 284; p. 502.
- Vehicles, Rear-axle mounting for motor-. A. A. Stephens. No. 1,367,927; Feb. 8; v. 283; p. 262.
- Vehicles, Rear-axle structure for motor-. E. L. Kraft. No. 1,386,510; Aug. 2; v. 289; p. 106.
- Vehicles, Rear signal device for. F. C. S. Knowles. No. 1,393,291; Oct. 11.
- Vehicles, Rear wheel for motor-. W. H. Klock. No. 1,394,739; Oct. 25.
- Vehicles, Reduction-gearing for motor-. D. W. Perin. No. 1,366,325; Jan. 18; v. 282; p. 525.
- Vehicles, Refrigerator-body for. C. O. Junge. No. 1,400,880; Dec. 20.
- Vehicles, Regulator for electric-lighting systems on motor-. J. W. Fitz Gerald. No. 1,373,806; Apr. 5; v. 285; p. 83.
- Vehicles, Resilient wheel for motor-. T. C. Dobbins. No. 1,369,329; Feb. 22; v. 283; p. 621.
- Vehicles, Reverse-stop for. C. P. Cirac. No. 1,388,404; Aug. 23; v. 289; p. 666.
- Vehicles, Road-clearing attachment for. M. Semoff. No. 1,367,923; Feb. 8; v. 283; p. 262.
- Vehicles, Road-wheel for. S. O. Williams. No. 1,392,545; Oct. 4.
- Vehicles, Rotary jack for. F. B. Urbano. No. 1,394,376; Oct. 18.
- Vehicles, Runner attachment for children's. J. Hudry. No. 1,374,011; Apr. 5; v. 285; p. 123.
- Vehicles, Runner attachment for motor-. J. E. Ollivier. No. 1,396,653; Nov. 8.
- Vehicles, Runner for wheeled. A. N. Purcell. No. 1,388,757; Aug. 23; v. 289; p. 734.
- Vehicles, Running-gear for. R. D. Morton. No. 1,375,311; Apr. 19; v. 285; p. 477.
- Vehicles, Running-gear for motor-. L. E. Waterman, H. R. Traphagen, and H. L. Waterman. No. 1,374,412; Apr. 12; v. 285; p. 241.
- Vehicles, Safety appliance for. C. Halpern. No. 1,401,774; Dec. 27.
- Vehicles, Safety device for occupants of. E. A. Tyler. No. 1,368,466; Feb. 15; v. 283; p. 415.
- Vehicles, Safety-fender for. C. E. Bedaux. No. 1,386,308; Aug. 2; v. 289; p. 69.
- Vehicles, Safety locking device for motor-. J. H. Farmer. No. 1,388,417; Aug. 23; v. 289; p. 668.
- Vehicles, Safety-signal for motor-. W. H. Collins and F. R. Baukhage. No. 1,387,355; Aug. 9; v. 289; p. 349.
- Vehicles, Safety starting-clutch for motor-. S. Abe. No. 1,395,243; Nov. 1.
- Vehicles, Safety-stop for motor-. J. G. Clark. No. 1,396,356; Nov. 8.
- Vehicles, Safety-stop for. J. D. Farmer. No. 1,386,324; Aug. 2; v. 289; p. 72.
- Vehicles, Sand-dispensing device for motor-. H. J. Hinz. No. 1,401,078; Dec. 20.
- Vehicles, Seat construction for. C. W. McKinley. No. 1,379,771; May 31; v. 286; p. 901.
- Vehicles, Self opening and closing gate for motor-. C. J. W. Robertson. No. 1,389,271; Aug. 30; v. 289; p. 891.
- Vehicles, Shock-absorber for. J. W. Blackledge. No. 1,377,613; May 10; v. 286; p. 291.
- Vehicles, Shock-absorber for. R. H. Hassler. (Reissue.) No. 15,018; Jan. 4; v. 282; p. 156.
- Vehicles, Shock-absorber for. H. E. Thompson. No. 1,377,104; May 3; v. 286; p. 138.
- Vehicles, Shock-absorbing means for. H. Howe. No. 1,375,512; Apr. 19; v. 285; p. 515.
- Vehicles, Signal device for motor-. B. Stanley. No. 1,391,803; Sept. 27; v. 290; p. 679.
- Vehicles, Signal for. W. W. McKesky. No. 1,390,573; Sept. 13; v. 290; p. 215.
- Vehicles, Signal for motor-. R. S. Hall. No. 1,381,918; June 21; v. 287; p. 415.
- Vehicles, Signal for use on. G. A. Garth. No. 1,399,955; Dec. 13.
- Vehicles, Signal-light for. J. Davis. No. 1,383,606; July 5; v. 288; p. 72.
- Vehicles, Signaling apparatus for. H. Fryman. No. 1,391,623; Sept. 20; v. 290; p. 570.
- Vehicles, Signaling apparatus for use on road-. A. H. Kelday. No. 1,397,639; Nov. 22.
- Vehicles, Signaling device for. J. B. Muniz. No. 1,375,720; Apr. 26; v. 285; p. 587.
- Vehicles, Signaling device for. E. Trim. No. 1,366,041; Jan. 18; v. 282; p. 470.
- Vehicles, Skid for motor-. J. Deschamps. No. 1,400,478; Dec. 13.
- Vehicles, Sled attachment for. J. Bartuzel. No. 1,380,860; June 7; v. 287; p. 103.
- Velocipede, Sledge-. P. Madjaroglou and A. Paulick. No. 1,399,138; Dec. 6.
- Vehicles, Sleigh attachment for auto-. O. T. Backlund. No. 1,394,514; Oct. 18.
- Vehicles, Spare-wheel carrier for. C. T. Ridgely. No. 1,373,392; Mar. 29; v. 284; p. 907.
- Vehicles, Speed-control device for motor-. J. E. Jordan. No. 1,400,608; Dec. 20.
- Vehicles, Speed-control device for moving. P. J. Simmen. No. 1,391,420; Sept. 20; v. 290; p. 530.
- Vehicles, Speed control for motor-. E. J. Crawford. No. 1,384,730; July 12; v. 288; p. 355.
- Vehicles, Speed-controlling device for. G. Horvath. No. 1,377,964; May 10; v. 286; p. 360.
- Vehicles, Speed-indicator for motor-. F. Gardner. No. 1,396,186; Nov. 8.
- Vehicles, Splash-guard for wheels of motor-. J. H. Stirk. No. 1,400,010; Dec. 13.
- Vehicles, Spotlight for motor-. F. G. Bullis. No. 1,387,347; Aug. 9; v. 289; p. 347.
- Vehicles, Spring-controller for. N. R. Krause. No. 1,379,992; May 31; v. 286; p. 944.
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- Vehicles, Spring for. J. N. Murphy. No. 1,370,038; Mar. 1; v. 284; p. 54.
- Vehicles, Spring for motor-. D. H. Montgomery. No. 1,384,146; July 12; v. 288; p. 233.
- Vehicles, Spring-mount for. H. B. Bacon. No. 1,393,068; Oct. 11.
- Vehicles, Spring-relief device for. J. Egan. No. 1,369,918; Mar. 1; v. 284; p. 31.
- Vehicles, Spring-shackle for motor-. S. I. Fekete. No. 1,376,803; May 3; v. 286; p. 80.
- Vehicles, Spring-support for. A. Hupp. No. 1,390,560; Sept. 13; v. 290; p. 293.
- Vehicles, Spring-suspension attachment for motor-. L. Obrecht. No. 1,389,318; Aug. 30; v. 289; p. 900.
- Vehicles, Spring suspension for. D. T. Brownlee. No. 1,364,702; Jan. 4; v. 282; p. 126.
- Vehicles, Spring suspension for. T. I. Duffy. No. 1,381,623; June 14; v. 287; p. 298.
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- Vehicles, Spring suspension for. C. W. McKinley. No. 1,390,365; Sept. 13; v. 290; p. 253.
- Vehicles, Spring-suspension for. E. E. Weaver. No. 1,401,841; Dec. 27.
- Vehicles, Spring-suspension mechanism for. E. E. Weaver. No. 1,401,840; Dec. 27.
- Vehicles, Spring suspension of motor road-. L. E. Cowey. No. 1,377,980; May 10; v. 286; p. 363.
- Vehicles, Spring suspension of self-propelled. H. H. Neale. No. 1,389,100; Aug. 30; v. 289; p. 857.
- Vehicles, Spring suspension of self-propelled. H. H. Neale. No. 1,389,839; Sept. 6; v. 290; p. 56.
- Vehicles, Sprinkler attachment for. I. G. Howell. No. 1,385,684; July 26; v. 288; p. 708.
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- Vehicles, Steering device for. J. F. Eccard. No. 1,398,588; Nov. 29.
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- Vehicles, Steering-gear connection for motor-. T. L. Anthony. No. 1,375,887; Apr. 26; v. 285; p. 618.
- Vehicles, Steering-gear for motor-. M. R. Karge. No. 1,387,727; Aug. 16; v. 289; p. 474.
- Vehicles, Steering-gear lock for motor-. M. M. Mueller. No. 1,381,000; June 7; v. 287; p. 130.
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- Vehicles, Steering mechanism for. E. J. Valeur. No. 1,374,044; Apr. 5; v. 285; p. 129.
- Vehicles, Steering mechanism for motor-. L. C. Sharp. No. 1,386,737; Aug. 9; v. 289; p. 225.
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- Vehicles, Steering mechanism for motor-driven. J. R. Kunzelman. No. 1,370,653; Mar. 8; v. 284; p. 216.
- Vehicles, Sunshade for. J. P. Humphrey. No. 1,393,130; Oct. 11.
- Vehicles, Suspension for. L. C. Beck. No. 1,398,060; Nov. 22.
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- Vehicles, System for steam-driven motor-. F. I. du Pont. No. 1,390,608; Aug. 9; v. 289; p. 198.
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- Vending-machine. E. F. Spaulding. No. 1,370,232; Mar. 1; v. 284; p. 90.
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- Vending-machine, Coin-controlled. E. B. Potts. No. 1,382,384; June 21; v. 287; p. 502.
- Vending-machine, Coin-operated. E. Schultz. No. 1,400,773; Dec. 20.
- Vending-machine for grocery commodities and the like. W. J. Goudeau. No. 1,390,031; Sept. 6; v. 290; p. 95.



- Vending-machine indicator. E. B. Potts and A. D. Grover. No. 1,393,964; Oct. 18.
- Vending machine, Liquid-. J. S. Samuelson. No. 1,373,914; Apr. 5; v. 285; p. 104.
- Vending machine, Stamp-. J. C. Hawkins. No. 1,391,775; Sept. 27; v. 290; p. 673.
- Vending machine, Stamp-. J. J. Schermack. No. 1,399,889; Dec. 13.
- Vending machine, Ticket-. E. A. Jackson. No. 1,381,839; June 14; v. 287; p. 339.
- Vending-machines, Coin-controlled operating device for. A. K. Collins. No. 1,382,475; June 21; v. 287; p. 519.
- Vending machines, Coin-operated mechanism for gasoline-. A. J. Ludwig. No. 1,378,590; May 17; v. 286; p. 531.
- Vending machines, Coin-tester for coin-controlled. A. D. Grover. No. 1,373,422; Apr. 5; v. 285; p. 8.
- Vending-machines, Delivery mechanism for. G. H. Armistage. No. 1,398,994; Dec. 6.
- Vending-machines, Sheet-delivering mechanism for. G. L. Huff. No. 1,399,385; Dec. 6.
- Vending-machines, Slot-closing device for coin-controlled. A. D. Grover. No. 1,391,732; Sept. 27; v. 290; p. 666.
- Vener-rack, Portable. R. T. Quick. No. 1,397,328; Nov. 15.
- Veneering, Skeleton core for. B. C. Rockwell. No. 1,394,119; Oct. 18.
- Vent device. J. J. Catron. No. 1,391,245; Sept. 20; v. 290; p. 494.
- Vent, Safety-. M. Wiget. No. 1,394,702; Oct. 25.
- Ventilated automobile-driver's seat. D. Benson and G. K. Bruce. No. 1,400,717; Dec. 20.
- Ventilating apparatus. R. E. Hellmund. No. 1,385,995; Aug. 2; v. 289; p. 6.
- Ventilating appliance, Mine-. J. F. Gamille. No. 1,372,500; Mar. 22; v. 284; p. 690.
- Ventilating bell or forcing-glass, Collapsible and. O. C. Kuebler. No. 1,392,178; Sept. 27; v. 290; p. 755.
- Ventilating-cupola for barns and the like. H. Silver. (Reissue). No. 15,223; Nov. 8.
- Ventilating-sash lock. F. P. Grode and F. Huttig. No. 1,395,708; Nov. 1.
- Ventilating systems, Blower for. A. Lamontagne. No. 1,375,595; Apr. 19; v. 285; p. 530.
- Ventilating systems, Damper for. W. G. Forcier. No. 1,391,309; Sept. 20; v. 290; p. 507.
- Ventilating unit. W. Shurtleff. No. 1,394,946; Oct. 25.
- Ventilation. H. L. Doherty. No. 1,382,961; June 28; v. 287; p. 666.
- Ventilation system. A. W. Stewart. No. 1,391,216; Sept. 20; v. 290; p. 488.
- Ventilation system. A. W. Stewart. No. 1,391,217; Sept. 20; v. 290; p. 488.
- Ventilator. *See*—  
Automatic ventilator. Shipping-car ventilator.  
Car-ventilator. Shoe-ventilator.  
Crib and bin ventilator. Window-ventilator.
- Ventilator. T. M. Brown. No. 1,400,860; Dec. 20.
- Ventilator. W. G. Forcier. No. 1,373,960; Apr. 5; v. 285; p. 114.
- Ventilator. H. W. Gaddess. No. 1,375,378; Apr. 19; v. 285; p. 480.
- Ventilator. C. M. Goodrich. No. 1,381,630; June 14; v. 287; p. 299.
- Ventilator. A. T. Hanson. No. 1,369,099; Feb. 22; v. 283; p. 577.
- Ventilator. G. Hanson. No. 1,393,775; Oct. 18.
- Ventilator. O. Kerwen. No. 1,399,126; Dec. 6.
- Ventilator. F. C. Largen. No. 1,383,469; July 5; v. 288; p. 44.
- Ventilator. J. W. Lippincott. No. 1,391,781; Sept. 27; v. 290; p. 675.
- Ventilator. A. W. Lucas. No. 1,389,252; Aug. 30; v. 289; p. 887.
- Ventilator. H. M. Marsh. No. 1,389,261; Aug. 30; v. 289; p. 889.
- Ventilator. J. McGeorge. No. 1,378,476; May 17; v. 286; p. 509.
- Ventilator. W. Mitchell. No. 1,382,736; June 28; v. 287; p. 623.
- Ventilator. A. Pfau. No. 1,389,896; Sept. 6; v. 290; p. 68.
- Ventilator. J. H. Smidley. No. 1,369,566; Feb. 22; v. 283; p. 667.
- Ventilator apparatus. P. R. Jordan. No. 1,394,735; Oct. 25.
- Ventilator, Window-. M. Mooers. No. 1,382,927; June 28; v. 287; p. 659.
- Ventilators, Thermostatic control for dampers for unit. M. J. Callahan. No. 1,390,758; Sept. 13; v. 290; p. 333.
- Verifier. J. B. Baskerville. No. 1,370,267; Mar. 1; v. 284; p. 98.
- Vernier surface-gage. F. Janusch. No. 1,372,433; Mar. 22; v. 284; p. 677.
- Vertical kiln. E. Chaudière. No. 1,390,884; Sept. 13; v. 290; p. 358.
- Vessel. E. H. Ewertz. No. 1,364,626; Jan. 4; v. 282; p. 111.
- Vessel and other objects, Air-bag and salvage method for raising sunken. A. O. Ryan. No. 1,364,646; Jan. 4; v. 282; p. 115.
- Vessel, Cargo. W. Lambert. No. 1,400,298; Dec. 13.
- Vessel, Cargo-. H. R. McClelland and J. McLean. No. 1,401,623; Dec. 27.
- Vessel, Cooking. M. L. Thompson. No. 1,384,786; July 19; v. 288; p. 447.
- Vessel-filling apparatus. T. S. Bailey. No. 1,373,935; Apr. 5; v. 285; p. 109.
- Vessel, Immersible salvage. A. J. F. Lee. No. 1,388,729; Aug. 23; v. 289; p. 728.
- Vessel-loading device. A. M. McDougall. No. 1,365,929; Jan. 18; v. 282; p. 448.
- Vessel, Marine. H. R. Collier. No. 1,364,719; Jan. 4; v. 282; p. 129.
- Vessel, Navigable. C. P. M. Jack. No. 1,393,537; Oct. 11.
- Vessel, Ocean-going. F. A. McKae. No. 1,395,000; Oct. 25.
- Vessel-propelling mechanism. J. Worcester. No. 1,380,283; May 31; v. 286; p. 999.
- Vessel-raising device. J. Szalay. No. 1,395,875; Nov. 1.
- Vessel, Submergible. L. Fort. No. 1,382,073; June 21; v. 287; p. 443.
- Vessel superstructure. A. McDougall. No. 1,380,110; May 31; v. 286; p. 966.
- Vessel, Vacuum-jacketed metal. E. S. Andrews. No. 1,368,877; Feb. 15; v. 283; p. 495.
- Vessels, Apparatus for indicating the depth of liquid in. L. Murphy. No. 1,368,187; Feb. 8; v. 283; p. 212.
- Vessels, Apparatus for raising sunken. H. A. Gray. No. 1,367,250; Feb. 1; v. 283; p. 73.
- Vessels, Apparatus for refloating sunken. M. Ariura. No. 1,373,643; Apr. 5; v. 285; p. 51.
- Vessels, Applying pressure to the interior of closed. A. E. Guy. No. 1,369,890; Mar. 1; v. 284; p. 26.
- Vessels, Article and method for hermetically sealing packing. G. W. Luhrmann. No. 1,379,113; May 24; v. 286; p. 704.
- Vessels, Attachment for cooking. E. E. Butts. No. 1,384,597; July 12; v. 288; p. 327.
- Vessels, Attachment for discharging contents from. M. Heffernan. No. 1,380,062; May 31; v. 286; p. 957.
- Vessels, Auxiliary apparatus for steering. A. M. Nicolson. No. 1,392,786; Oct. 4.
- Vessels, Building reinforced-concrete and composite. G. C. and R. E. Newton. No. 1,367,986; Feb. 8; v. 283; p. 273.
- Vessels, Cellular construction of. C. McDonald. No. 1,366,269; Jan. 18; v. 282; p. 614.
- Vessels, Closure for containing. B. W. Rivers. No. 1,365,274; Jan. 11; v. 282; p. 281.
- Vessels, Construction for raising sunken. P. Donaire. No. 1,390,097; Sept. 6; v. 290; p. 109.
- Vessels, Device for raising sunken. J. W. Reno. No. 1,373,672; Apr. 5; v. 285; p. 56.
- Vessels, Device for raising sunken. L. Sanchez. No. 1,396,885; Nov. 15.
- Vessels, Exhaust system for submarine. H. E. Grieshaber. No. 1,383,398; July 5; v. 288; p. 29.
- Vessels, Head for dispensing. W. G. Dunham. No. 1,391,771; Sept. 27; v. 290; p. 673.
- Vessels, Head for dispensing. W. G. Dunham. No. 1,391,772; Sept. 27; v. 290; p. 673.
- Vessels, Lip-guard for drinking. T. J. Mooney. No. 1,369,293; Feb. 22; v. 283; p. 614.
- Vessels, Machine for securing end closures in. F. Coates. No. 1,384,049; July 12; v. 288; p. 213.
- Vessels, Method and apparatus for steering. A. M. Nicolson. No. 1,392,787; Oct. 4.
- Vessels or the like, Apparatus for lifting and floating sunken. K. Akaki and M. Itoi. No. 1,383,051; June 28; v. 287; p. 683.
- Vessels, Outlet for jacketed. E. B. Nichols. No. 1,392,204; Sept. 27; v. 290; p. 761.
- Vessels, Paddle-wheel construction for. J. G. Myers. No. 1,371,257; Mar. 15; v. 284; p. 394.
- Vessels, Raising submerged. J. W. Reno. No. 1,400,316; Dec. 13.
- Vessels, Raising sunken. J. W. Reno. No. 1,364,142; Jan. 4; v. 282; p. 18.
- Vessels, Raising sunken. J. W. Reno. No. 1,364,143; Jan. 4; v. 282; p. 18.
- Vessels, Recovering sunken. R. de Graff. No. 1,368,787; Feb. 15; v. 283; p. 477.
- Vessels, Regenerative counter-propeller for marine. R. W. Birkett. No. 1,386,835; Aug. 9; v. 289; p. 245.
- Vessels, Rigging for sailing. C. Julien. No. 1,379,573; May 24; v. 286; p. 790.
- Vest-supporter. C. M. Florkey. No. 1,384,693; July 12; v. 288; p. 348.
- Veterinary surgical appliance. S. M. Craddock. No. 1,388,172; Aug. 23; v. 289; p. 618.
- Vibrating mechanism. F. E. Kling and L. B. Weidlein. No. 1,400,169; Dec. 13.
- Vibrating motor. K. Edison. No. 1,373,316; Mar. 29; v. 284; p. 893.
- Vibrating motor and method, Constant-speed. L. R. McDonald. No. 1,396,335; Nov. 8.
- Vibration-absorbing device. M. J. Teel. No. 1,383,350; July 5; v. 288; p. 19.
- Vibration-absorbing mounting. P. W. Bridgman. No. 1,377,556; May 10; v. 286; p. 281.
- Vibration-absorbing support, Collapsible. G. W. Beadle. No. 1,372,991; Mar. 29; v. 284; p. 829.
- Vibration, Means for measuring. J. E. Kennedy. No. 1,397,525; Nov. 22.



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- Vibration-motor. G. Ramsey. No. 1,379,212; May 24; v. 286; p. 722.
- Vibration motor and method, Variable amplitude of. L. E. McDonald. No. 1,396,337; Nov. 8.
- Vibration-recorder. A. Bourrieu. No. 1,367,941; Feb. 8; v. 283; p. 265.
- Vibrations, Apparatus for converting. G. Locke. No. 1,370,462; Mar. 1; v. 284; p. 134.
- Vibrations, Detecting underwater. H. D. Arnold. No. 1,383,690; July 5; v. 288; p. 90.
- Vibrations, Detecting underwater. J. W. Horton. No. 1,381,640; June 14; v. 287; p. 301.
- Vibrations, Method of and apparatus for detecting underwater. J. W. Horton. No. 1,378,960; May 24; v. 286; p. 675.
- Vibrator. J. C. Field. No. 1,368,916; Feb. 15; v. 283; p. 502.
- Vibrator. E. O. Hatten. No. 1,389,586; Sept. 6; v. 290; p. 5.
- Vibrator. H. J. Schaumleffel. No. 1,397,058; Nov. 15.
- Vibrator, Massage-. C. H. Beach. No. 1,368,782; Feb. 15; v. 283; p. 476.
- Vibrator, Mechanical. W. H. Gilman and M. H. Loughridge. No. 1,374,197; Apr. 12; v. 285; p. 199.
- Vibrator, Ribbon-. O. A. Hokanson. No. 1,383,540; July 5; v. 288; p. 58.
- Vibrator, Ribbon-. O. A. Hokanson. No. 1,385,374; July 26; v. 288; p. 643.
- Vibrator, Therapeutic electric. S. D. Smith. No. 1,373,208; Mar. 29; v. 284; p. 872.
- Vibratory-jaw crusher. C. M. Conder and G. T. Vivian. No. 1,385,244; July 19; v. 288; p. 542.
- View-finding device. F. F. Nelson. No. 1,400,901; Dec. 20.
- Viol. A. F. Groebel. No. 1,377,067; May 3; v. 286; p. 131.
- Violin, &c. F. M. Ashley. No. 1,367,580; Feb. 8; v. 283; p. 196.
- Violin. D. H. Neilly. No. 1,382,310; June 21; v. 287; p. 487.
- Violin. R. A. Sivard. No. 1,384,492; July 12; v. 288; p. 305.
- Violin and producing the same. J. Gorman. No. 1,400,153; Dec. 13.
- Violin-body. W. J. Lucas. No. 1,386,183; Aug. 2; v. 289; p. 44.
- Violin-bow guide. S. L. Yates. No. 1,384,292; July 12; v. 288; p. 264.
- Violin-bridge. H. F. Fisher. No. 1,377,570; May 10; v. 286; p. 283.
- Violin chin-rest. S. J. Wallace. No. 1,387,216; Aug. 9; v. 289; p. 319.
- Violin-player, Automatic. E. V. Carlson. No. 1,387,467; Aug. 16; v. 289; p. 421.
- Violin-tailpiece. A. S. Filson. No. 1,369,092; Feb. 22; v. 283; p. 576.
- Violin-tailpiece, Combination. M. A. Wilson; No. 1,397,193; Nov. 15.
- Violins, &c. Shoulder-pad for. H. F. Fisher. No. 1,377,571; May 10; v. 286; p. 283.
- Violins, Tone-indicating device for. W. F. Hames. No. 1,392,151; Sept. 27; v. 290; p. 750.
- Virus for use in the treatment of swine, Artificial cultivation of broncho-pneumonia. F. Proescher. No. 1,391,579; Sept. 20; v. 290; p. 562.
- Viscera-inspection table. E. Keebler. No. 1,380,563; June 7; v. 287; p. 45.
- Viscera-separating machine. A. O. Lundell. No. 1,365,708; Jan. 18; v. 282; p. 404.
- Viscose, Precipitating. F. Steimmig. No. 1,399,587; Dec. 6.
- Viscosity, Method and apparatus for determining. A. G. M. Michell. No. 1,398,878; Nov. 29.
- Viscous liquids, Treating. R. Rafn. No. 1,368,291; Feb. 15; v. 283; p. 380.
- Viscous substances, Pumping of. H. T. Newbigin. No. 1,377,914; May 10; v. 286; p. 351.
- Vise. F. E. Bergstedt. No. 1,379,382; May 24; v. 286; p. 755.
- Vise. W. A. Campbell. No. 1,393,083; Oct. 11.
- Vise. M. S. Cummer. No. 1,379,747; May 31; v. 286; p. 897.
- Vise. O. L. Engstrom and H. C. Nelson. No. 1,392,130; Sept. 27; v. 290; p. 746.
- Vise. S. J. Korkosz. No. 1,394,912; Oct. 25.
- Vise. E. S. Ldstone. No. 1,385,216; July 19; v. 288; p. 636.
- Vise. J. R. Long. No. 1,399,632; Dec. 6.
- Vise. A. S. Mellor. No. 1,385,088; July 19; v. 288; p. 610.
- Vise. R. M. Miller. No. 1,392,434; Oct. 4.
- Vise. J. A. Olson. No. 1,375,928; Apr. 26; v. 285; p. 626.
- Vise. J. K. Skinder. No. 1,375,236; Apr. 19; v. 285; p. 462.
- Vise. F. W. Stroh. No. 1,385,504; July 26; v. 288; p. 671.
- Vise. C. Thyssen. No. 1,389,568; Aug. 30; v. 289; p. 950.
- Vise. J. L. Ware. No. 1,375,876; Apr. 26; v. 285; p. 616.
- Vise. D. A. Wilkinson. No. 1,387,821; Aug. 16; v. 289; p. 493.
- Vise, Angler's cabinet. W. L. Beaty. No. 1,374,807; Apr. 12; v. 285; p. 317.
- Vise. Anvil-. A. C. Paulson. No. 1,385,268; July 19; v. 288; p. 546.
- Vise appliance. E. L. Page. No. 1,387,936; Aug. 16; v. 289; p. 515.
- Vise, Bench-. J. E. Messenger. No. 1,399,786; Dec. 13.
- Vise, Bench-. E. O. Munger. No. 1,373,198; Mar. 29; v. 284; p. 370.
- Vise, Combination-. H. Germanow. No. 1,371,617; Mar. 15; v. 284; p. 465.
- Vise, Machine-. J. H. Jacobs. No. 1,372,027; Mar. 22; v. 284; p. 600.
- Vise, Machine or other. J. H. Jerrim. No. 1,368,399; Feb. 15; v. 283; p. 401.
- Vise-operator. L. Salter. No. 1,393,834; Oct. 18.
- Vise, Parallel. N. Olivier. No. 1,383,658; July 5; v. 288; p. 83.
- Vise, Picture-frame. A. J. White. No. 1,393,059; Oct. 11.
- Vise, Piston-. L. A. Anderson. No. 1,368,683; Feb. 15; v. 283; p. 457.
- Vise-post. J. F. Bixler and J. A. Long. No. 1,390,189; Sept. 6; v. 290; p. 127.
- Vise, Quick-acting. E. W. Fulton. No. 1,387,845; Aug. 16; v. 289; p. 498.
- Vise, Quick-release bench-. M. W. Smith. No. 1,391,913; Sept. 27; v. 290; p. 702.
- Vise-stand. M. Evans. No. 1,398,424; Nov. 29.
- Vise-stand. L. F. Roeder. No. 1,381,663; June 14; v. 287; p. 305.
- Vise-jaws, Bolt-clamp for. C. Algrim. No. 1,395,659; Nov. 1.
- Vise-jaws, Equalizing attachment for. W. S. Duwellius. No. 1,397,409; Nov. 15.
- Vise, Universal. C. A. Carlson. No. 1,383,524; July 5; v. 288; p. 55.
- Vises, Bending attachment for. J. S. Ouellette. No. 1,397,980; Nov. 22.
- Visual weather-screen. S. A. de Normanville. No. 1,379,750; May 31; v. 286; p. 898.
- Volatile solvents from material treated therewith, Removal of. H. Bollmann. No. 1,371,546; Mar. 15; v. 284; p. 452.
- Volatile solvents, The recovery of. E. Bindschedler. No. 1,368,601; Feb. 15; v. 283; p. 441.
- Volatilizer, Fuel-charged. J. B. Morin. No. 1,371,705; Mar. 15; v. 284; p. 482.
- Voltage-controlling mechanism. P. Bossu. No. 1,396,552; Nov. 8.
- Voltage fluctuations on distributing systems, Prevention of objectionable. A. F. Knight. No. 1,365,502; Jan. 11; v. 282; p. 324.
- Voltage of the current supplied therefrom, Electrical transformer for regulating or varying the. F. E. Berry. No. 1,396,551; Nov. 8.
- Voltage-regulating apparatus. V. A. Fynn. No. 1,387,149; Aug. 9; v. 289; p. 307.
- Voltaic cell and electrode. F. R. Parker. No. 1,366,095; Jan. 18; v. 282; p. 480.
- Volume recording meter, Pressure or. C. H. Smoot. No. 1,369,568; Feb. 22; v. 283; p. 668.
- Vote-registering machine. E. E. Hines. No. 1,380,557; June 7; v. 287; p. 44.
- Voting apparatus, Electrically-operated. A. C. Bocher. No. 1,393,074; Oct. 11.
- Vulcanized joint. J. O. Langguth. No. 1,378,040; May 17; v. 286; p. 427.
- Vulcanizer. A. Adamson. No. 1,368,679; Feb. 15; v. 283; p. 457.
- Vulcanizer. M. Boylan. No. 1,385,518; July 26; v. 288; p. 674.
- Vulcanizer. G. H. Bunnell and B. E. Titus. No. 1,393,495; Oct. 11.
- Vulcanizer. P. Crosley, Jr. No. 1,393,091; Oct. 11.
- Vulcanizer. O. M. Fredd. No. 1,373,807; Apr. 5; v. 285; p. 83.
- Vulcanizer. A. O. Harris. No. 1,370,438; Mar. 1; v. 284; p. 130.
- Vulcanizer. E. D. Hostler, I. J. Hamiel, and C. H. Mather. No. 1,379,447; May 24; v. 286; p. 767.
- Vulcanizer. W. E. Johnson. No. 1,392,645; Oct. 4.
- Vulcanizer. F. O. Melin. No. 1,376,149; Apr. 26; v. 285; p. 669.
- Vulcanizer. A. J. Savage. No. 1,389,599; Sept. 6; v. 290; p. 8.
- Vulcanizer. H. A. Sheets, Jr. No. 1,396,069; Nov. 8.
- Vulcanizer. W. R. Younger. No. 1,384,503; July 12; v. 288; p. 307.
- Vulcanizer-burner. W. Frost. No. 1,388,032; Aug. 16; v. 289; p. 534.
- Vulcanizer, Footwear. W. H. Foster. No. 1,374,371; Apr. 12; v. 285; p. 233.
- Vulcanizer-igniter. H. A. Sheets, Jr. No. 1,396,068; Nov. 8.
- Vulcanizers, Matrix for. F. Maier. No. 1,380,919; June 7; v. 287; p. 114.
- Vulcanizer, Tube-splice. C. E. Miller. No. 1,364,133; Jan. 4; v. 282; p. 17.
- Vulcanizing air-bag. O. W. Dolph. No. 1,379,397; May 24; v. 286; p. 758.
- Vulcanizing air-bag. G. E. Sapp. No. 1,380,930; June 7; v. 287; p. 116.
- Vulcanizing apparatus. J. W. Arthur. No. 1,365,365; Jan. 11; v. 282; p. 298.



- Vulcanizing apparatus. G. W. Bulley. No. 1,380,463; June 7; v. 287; p. 26.
- Vulcanizing apparatus. I. K. Rystedt. No. 1,376,463; May 3; v. 286; p. 16.
- Vulcanizing apparatus and process. E. Fetter. (Reissue.) No. 15,076; Apr. 5; v. 285; p. 153.
- Vulcanizing device. J. J. Cotter. No. 1,372,799; Mar. 29; v. 284; p. 789.
- Vulcanizing device. S. J. Hurwitz. No. 1,383,951; July 5; v. 288; p. 143.
- Vulcanizing device. J. Traum. No. 1,384,362; July 12; v. 288; p. 278.
- Vulcanizing, Method of and apparatus for. R. H. Atcherson. No. 1,388,138; Aug. 16; v. 289; p. 555.
- Vulcanizing, Method of and apparatus for. J. C. Young. No. 1,390,005; Sept. 6; v. 290; p. 90.
- Vulcanizing-mold. O. M. Fredd. No. 1,376,196; Apr. 26; v. 285; p. 677.
- Vulcanizing-mold. E. F. Nelson. No. 1,397,447; Nov. 15.
- Vulcanizing-oven. C. J. Berthel. No. 1,382,948; June 28; v. 287; p. 663.
- Vulcanizing-pad. F. A. Brown. No. 1,379,391; May 24; v. 286; p. 757.
- Vulcanizing-press. R. H. Crumlich. No. 1,386,603; Aug. 9; v. 289; p. 197.
- Wafer-baking apparatus. M. H. Bergen. No. 1,374,419; Apr. 12; v. 285; p. 243.
- Waffle-machine. F. A. Sell. No. 1,395,930; Nov. 1.
- Waffle-mold. W. L. Holbrook. No. 1,385,829; July 26; v. 288; p. 737.
- Wagon. W. L. Jennings. No. 1,384,720; July 12; v. 288; p. 353.
- Wagon. B. E. John. No. 1,371,246; Mar. 15; v. 284; p. 392.
- Wagon. C. F. Stich. No. 1,391,083; Sept. 20; v. 290; p. 461.
- Wagon. F. H. Ward. No. 1,377,949; May 10; v. 286; p. 358.
- Wagon and sled, Coaster. W. K. Porter. No. 1,401,640; Dec. 27.
- Wagon attachment. W. Schlesener. No. 1,382,553; June 21; v. 287; p. 634.
- Wagon-bed, Adjustable. J. J. Stromberg. No. 1,366,847; Jan. 25; v. 282; p. 672.
- Wagon-body. J. Speed. No. 1,394,798; Oct. 25.
- Wagon-brake, Automatic. O. A. Berg. No. 1,385,772; July 26; v. 288; p. 725.
- Wagon, Coaster-. H. J. Heider. No. 1,385,946; July 26; v. 288; p. 759.
- Wagon, coaster, and scooter, Convertible child's. C. Huseman. No. 1,395,497; Nov. 1.
- Wall construction. I. F. Raudabaugh. No. 1,399,320; Dec. 6.
- Wall construction and brick therefor. R. F. Martin. No. 1,400,893; Dec. 20.
- Wall construction or wall. J. H. Magee. No. 1,399,222; Dec. 6.
- Wagon, Dump-. P. A. Peterson. No. 1,392,445; Oct. 4.
- Wagon-dump. H. E. Surface. No. 1,393,464; Oct. 11.
- Wagon, Dumping-. D. Birstler. No. 1,397,355; Nov. 15.
- Wagon, Dumping-. H. Page. No. 1,394,113; Oct. 18.
- Wagon, Dumping-. J. Thompson. No. 1,381,031; June 7; v. 287; p. 136.
- Wagon end-gate. J. Gross. No. 1,374,297; Apr. 12; v. 285; p. 218.
- Wagon, Grocery sales-. W. H. Fruitticher. No. 1,371,234; Mar. 15; v. 284; p. 389.
- Wagon-hayrack carriage. J. S. Myers. (Reissue.) No. 15,158; July 19; v. 288; p. 563.
- Wagon, Juvenile. M. E. Griswold. No. 1,376,873; May 3; v. 286; p. 94.
- Wagon-lifting apparatus. C. L. C. Magee. No. 1,397,593; Nov. 22.
- Wagon-loading device. E. C. Lehson. No. 1,385,560; July 26; v. 288; p. 682.
- Wagon-rack. L. H. Halverson. No. 1,381,634; June 14; v. 287; p. 300.
- Wagon, Revolving bottom dump-. E. G. Ledyard. No. 1,386,263; Aug. 2; v. 289; p. 60.
- Wagon-spring. F. D. Story. No. 1,398,810; Nov. 29.
- Wagon-standard. D. T. Smith. No. 1,368,463; Feb. 15; v. 283; p. 415.
- Wagon-tank construction. A. A. Kramer. No. 1,365,110; Jan. 11; v. 282; p. 249.
- Wagon-tongue. J. C. Kitterman. No. 1,390,792; Sept. 13; v. 290; p. 339.
- Wagon, Trailer-. E. E. Wickersham. No. 1,386,978; Aug. 9; v. 289; p. 274.
- Wagons, &c., Draft appliance for. L. Coppock. (Reissue.) No. 15,180; Aug. 23; v. 289; p. 750.
- Wagons, Hoisting and unloading sling for. E. T. Jacobson. No. 1,367,976; Feb. 8; v. 283; p. 272.
- Wagons, Tail end-gate for. E. M. Price. No. 1,384,212; July 12; v. 288; p. 246.
- Waist. A. A. Hogan. No. 1,382,358; June 21; v. 287; p. 497.
- Waist, Child's. E. F. Meier. No. 1,385,221; July 19; v. 288; p. 537.
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- Waistband. M. Thomas and C. Kaufmann. No. 1,371,273; Mar. 15; v. 284; p. 397.
- Waistband-lining. R. D. Von Rentsch. No. 1,366,852; Jan. 25; v. 282; p. 673.
- Waistband, Metallic. A. G. Soar. No. 1,371,448; Mar. 15; v. 284; p. 432.
- Walking-sticks, crutches, &c., Adjustable rubber pad, ferule or tip for. F. King. No. 1,372,517; Mar. 22; v. 284; p. 693.
- Wall-anchor. N. K. Bowman. No. 1,396,398; Nov. 8.
- Wall-block. J. W. Hull. No. 1,398,695; Nov. 29.
- Wall-board. J. E. Dalglish. No. 1,386,554; Aug. 2; v. 289; p. 115.
- Wall-board, Composition for. E. D. Martinet. No. 1,371,505; Mar. 15; v. 284; p. 444.
- Wall-board fastener. C. A. Upson. No. 1,373,036; Mar. 29; v. 284; p. 837.
- Wall-bracket. R. F. Perkins. No. 1,390,539; Sept. 13; v. 290; p. 288.
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- Wall, Concrete. G. H. Forrester. No. 1,379,754; May 31; v. 286; p. 898.
- Wall construction. G. R. De Forrest. No. 1,377,062; May 3; v. 286; p. 120.
- Wall construction. D. W. Dodson. No. 1,370,686; Mar. 8; v. 284; p. 222.
- Wall construction. H. J. Lafontaine. No. 1,367,785; Feb. 8; v. 283; p. 236.
- Wall construction. E. T. Lee. No. 1,372,358; Mar. 22; v. 284; p. 663.
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- Wall construction. E. F. Needham. No. 1,375,103; Apr. 19; v. 285; p. 437.
- Wall construction. F. M. Sawyer. No. 1,378,139; May 17; v. 286; p. 446.
- Wall construction. G. O. Schulz. No. 1,383,766; July 5; v. 288; p. 106.
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- Wall construction, Concrete. W. C. Buckhout. No. 1,368,109; Feb. 8; v. 283; p. 297.
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- Wall-mold. A. Bostain. No. 1,368,105; Feb. 8; v. 283; p. 296.
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- Wall-socket. E. G. Liebold. No. 1,376,712; May 3; v. 286; p. 62.
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- Wall structure and structural blocks for making same. E. L. Benton. No. 1,377,550; May 10; v. 286; p. 280.
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- Walls, Concrete-form for reinforced hollow. E. B. Hillman. No. 1,364,372; Jan. 4; v. 282; p. 63.
- Walls, Core for hollow. D. C. Patterson. No. 1,395,452; Nov. 1.
- Walls, Core for molding hollow. J. E. Fifield. No. 1,373,877; Apr. 5; v. 285; p. 97.
- Walls, Heating. A. Roberts. No. 1,401,497; Dec. 27.
- Walls, Metallic mold for concrete. G. W. Bolton. No. 1,374,717; Apr. 12; v. 285; p. 300.
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- Warps, Machine for operating upon. M. F. Field. No. 1,383,712; July 5; v. 288; p. 95.
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| Dish-washer.     | Suction-washer.         |
| Lock-washer.     | Tap-washer.             |
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- Washer-securing device. F. D. Conard. No. 1,376,744; May 3; v. 286; p. 69.
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- Washing and rinsing machine. A. J. Fisher. No. 1,396,364; Nov. 8.
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- Washing-machine. L. L. Barron, H. B. Wolken, and F. J. Felker. No. 1,369,876; Mar. 1; v. 284; p. 23.
- Washing-machine. C. E. Beardsley. No. 1,381,784; June 14; v. 287; p. 329.
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- Washing-machine. O. F. Fishedick and A. W. Krabn. No. 1,382,636; June 28; v. 287; p. 604.
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- Washing-machine. M. M. Latham. No. 1,381,716; June 14; v. 287; p. 317.
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- Washing-machine. H. Rabezzana. No. 1,376,227; Apr. 26; v. 285; p. 684.
- Washing-machine. K. Rayburn. No. 1,375,107; Apr. 19; v. 285; p. 438.
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- Washing-machine. F. Ritz and J. H. Brook. No. 1,393,969; Oct. 18.
- Washing-machine. C. Schirmer. No. 1,388,064; Aug. 16; v. 289; p. 540.
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- Washing-machine. J. N. Thornton. No. 1,387,630; Aug. 16; v. 289; p. 455.
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- Washing-machine. J. Vincent. No. 1,397,886; Nov. 22.
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- Washing-machine. F. E. Wolcott. No. 1,390,224; Sept. 6; v. 290; p. 133.
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- Washing machine, Clothes-. A. E. Roever. No. 1,396,465; Nov. 8.
- Washing-machine, Convertible. W. E. C. Powell. No. 1,387,173; Aug. 9; v. 289; p. 312.
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- Washing-machine draw-off. F. Russell. No. 1,399,800; Dec. 13.
- Washing-machine drive. H. W. Eden. No. 1,387,696; Aug. 16; v. 289; p. 467.
- Washing-machine folding shelf. J. Nelson. No. 1,369,933; Mar. 1; v. 284; p. 34.
- Washing-machine heater. A. J. Fisher. No. 1,388,941; Aug. 30; v. 289; p. 825.
- Washing-machine mechanism. W. H. Voss. No. 1,384,876; July 19; v. 288; p. 466.
- Washing-machine mechanism. W. H. Voss. No. 1,385,806; July 26; v. 288; p. 732.
- Washing-machine, Nut. F. Groner. No. 1,387,257; Aug. 9; v. 289; p. 327.
- Washing machine, Plume-. I. Tessa. No. 1,397,745; Nov. 22.
- Washing-machine, Rotary. G. Binder. No. 1,389,182; Aug. 30; v. 289; p. 874.
- Washing-machine, Steam. J. Kashinsky. No. 1,375,913; Apr. 26; v. 285; p. 623.
- Washing-machine tub. R. J. Anderson. No. 1,389,090; Aug. 30; v. 289; p. 855.
- Washing-machine tub. V. B. Edwards. No. 1,386,245; Aug. 2; v. 289; p. 57.
- Washing-machine tubs, Cover for. D. D. Green. No. 1,379,014; May 24; v. 286; p. 685.
- Washing-machine with folding wringer. H. D. Payne, A. W. De Clerque, and S. T. Sjoborg. No. 1,375,170; Apr. 19; v. 285; p. 450.
- Washing-machines and wringers, Gear transmission for. H. Hansen. No. 1,400,744; Dec. 20.
- Washing-machines, Automatic reversing device for. P. C. Mossner. No. 1,392,961; Oct. 11.
- Washing-machines, Drive and reversing mechanism for. C. Welhart. No. 1,399,910; Dec. 13.
- Washing-machines, Driving mechanism for. H. Hansen. No. 1,400,743; Dec. 20.
- Washing-machines, Driving mechanism for. W. F. Moran. No. 1,393,957; Oct. 18.
- Washing-machines, Eccentric driving mechanism for power. H. H. Toll and F. C. Duff. No. 1,379,732; May 31; v. 286; p. 895.
- Washing-machines, Gearing for. J. A. Diener. No. 1,387,365; Aug. 9; v. 289; p. 350.
- Washing-machines, Gearing for. A. H. Peters. No. 1,391,272; Sept. 20; v. 290; p. 490.
- Washing-machines, Heating unit for. I. H. Harris. No. 1,374,202; Apr. 12; v. 285; p. 200.
- Washing-machines, Operating device for. L. E. Dietz. No. 1,384,121; July 12; v. 288; p. 228.
- Washing-machines, Power-drive for. J. J. Wood. No. 1,396,082; Nov. 8.
- Washing-machines, Reversing mechanism for cylinder. F. Balzer. No. 1,376,393; May 3; v. 286; p. 3.
- Washing-machines, Timer for. J. A. Brenner. No. 1,395,034; Oct. 25.
- Washing-machines, Wringer mechanism for. B. E. Getz. No. 1,380,551; June 7; v. 287; p. 43.
- Washing or cleaning machine. A. Henning. No. 1,387,776; Aug. 16; v. 289; p. 485.
- Washtub and sink, Combined. S. Chervin. No. 1,370,088; Mar. 1; v. 284; p. 63.
- Washtub-cover. J. Kanster. No. 1,387,006; Aug. 9; v. 289; p. 279.
- Washtub-protector. I. B. Dorsey. No. 1,400,733; Dec. 20.
- Washtubs, Clothes-wringing attachment for. C. B. Davis. No. 1,379,618; May 31; v. 286; p. 874.
- Waste-basin and flushing means therefor. C. Adell. No. 1,366,761; Jan. 26; v. 282; p. 656.
- Waste-paper bag. A. D. Robinson. No. 1,373,450; Apr. 5; v. 285; p. 14.
- Watch. J. A. Freund. No. 1,392,006; Sept. 27; v. 290; p. 722.
- Watch. G. Henry. No. 1,372,814; Mar. 29; v. 284; p. 793.
- Watch. S. E. Leshner. No. 1,367,403; Feb. 1; v. 283; p. 104.
- Watch. L. Tomchin. No. 1,382,256; June 21; v. 287; p. 477.
- Watch-bow fastener. E. J. Wittman. No. 1,375,434; Apr. 19; v. 285; p. 500.
- Watch-casing, Three-piece. L. Lehr. No. 1,400,083; Dec. 13.
- Watch-casing, Two-piece. L. Lewitt. No. 1,385,839; July 26; v. 288; p. 739.
- Watch chain and charm, Combined. W. M. Przybyla. No. 1,371,932; Mar. 15; v. 284; p. 525.
- Watch-charm. R. C. Homan. No. 1,385,454; July 26; v. 288; p. 660.
- Watch-dial, Adjustable. H. L. Shaw. No. 1,375,470; Apr. 19; v. 285; p. 507.
- Watch-escapements, Depth-adjuster for. F. R. Coats and J. F. Hartwell. No. 1,368,118; Feb. 8; v. 283; p. 299.
- Watch-fob. J. Komorous. No. 1,370,125; Mar. 1; v. 284; p. 70.
- Watch-holder. H. T. Hoffman. No. 1,373,003; Mar. 29; v. 284; p. 831.
- Watch-holder. W. C. Rogers. No. 1,381,018; June 7; v. 287; p. 134.
- Watch-movement. J. Rizek. No. 1,396,879; Nov. 15.
- Watch-movement case. S. K. Ouzoun-Boghossian. No. 1,364,798; Jan. 4; v. 282; p. 145.
- Watch-movement case. S. K. Ouzoun-Boghossian. No. 1,375,661; Apr. 19; v. 285; p. 543.
- Watch-pendant. L. E. F. Wachter. No. 1,383,884; July 5; v. 288; p. 130.
- Watch-plates, Making. J. A. Freund. No. 1,392,007; Sept. 27; v. 290; p. 723.
- Watch-pocket protector, Safety-. L. Jurgielewicz. No. 1,380,212; May 31; v. 286; p. 985.
- Watch-protector. A. Hurwitz. No. 1,372,697; Mar. 29; v. 284; p. 769.
- Watch-repair box. J. Couture. No. 1,372,604; Mar. 22; v. 284; p. 710.
- Watch-stand. H. C. Karr. No. 1,384,071; July 12; v. 288; p. 217.
- Watch winding and hands-setting mechanism. E. Pellaton. No. 1,388,755; Aug. 23; v. 289; p. 733.
- Watch winding attachment. E. C. Nielsen. No. 1,386,351; Aug. 2; v. 289; p. 77.
- Watches, Safety attachment for stop-. H. E. Von Kersburg. No. 1,373,467; Apr. 5; v. 285; p. 17.
- Watchcase. L. Lubin. No. 1,376,776; May 3; v. 286; p. 75.
- Watchmaker's compound tool. A. Brilliant. No. 1,389,119; Aug. 30; v. 289; p. 861.
- Water, Apparatus for producing distilled. B. Bleicken. No. 1,401,578; Dec. 27.
- Water, Apparatus for purifying. A. J. Reed. No. 1,397,452; Nov. 15.
- Water, Apparatus for walking on the. A. N. Sheldon. No. 1,384,354; July 12; v. 288; p. 277.
- Water, Automatically regulating the addition of a treating agent to. J. S. Simsohn. No. 1,388,613; Aug. 23; v. 289; p. 706.
- Water-bed fence. R. P. Stine. No. 1,399,819; Dec. 13.
- Water-bottle stopper. M. C. Schweinert. No. 1,382,679; June 28; v. 287; p. 612.
- Water-circulator. A. Hahn. No. 1,399,617; Dec. 6.



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- Water-cleaning plant. H. Wehner. No. 1,400,129; Dec. 13.
- Water-closet. W. E. Hinsdale. No. 1,391,475; Sept. 20; v. 290; p. 540.
- Water-closet. W. E. Hinsdale. No. 1,391,476; Sept. 20; v. 290; p. 540.
- Water-closet. W. E. Hinsdale and W. H. Hall. No. 1,391,477; Sept. 20; v. 290; p. 541.
- Water-closet bowl. A. G. Wood, Jr. No. 1,376,907; May 3; v. 286; p. 101.
- Water-closets, Flush for. E. Levine. No. 1,400,222; Dec. 13.
- Water-closet, Railway. J. A. Corry. No. 1,377,185; May 10; v. 286; p. 209.
- Water-column. E. E. Johnson. No. 1,391,545; Sept. 20; v. 290; p. 555.
- Water-conductor. A. E. Fortney. No. 1,368,918; Feb. 15; v. 283; p. 503.
- Water-conductors, drain-spouts, &c., Relieving attachment for clogged. A. R. Konsalik. No. 1,383,547; July 5; v. 288; p. 60.
- Water-conduits, Balanced closing device for. F. Gremmels. No. 1,392,637; Oct. 4.
- Water-cooled glass-roller. W. Cox. No. 1,392,626; Oct. 4.
- Water-cooler. W. B. Barley and J. C. Corbett. No. 1,400,713; Dec. 20.
- Water-cooler. G. A. Doerr. No. 1,390,280; Sept. 13; v. 290; p. 237.
- Water-cooler. H. Giessel. No. 1,386,699; Aug. 9; v. 289; p. 217.
- Water-cooler. C. K. Green. No. 1,372,135; Mar. 22; v. 284; p. 620.
- Water-cooler. F. A. Phillippi. No. 1,391,075; Sept. 20; v. 290; p. 459.
- Water-cooling apparatus. C. Kohler. No. 1,371,628; Mar. 15; v. 284; p. 467.
- Water-craft, Propelling mechanism for. E. J. Schneider. No. 1,379,290; May 24; v. 286; p. 737.
- Water, Dispensing cool drinking. J. L. Fate. No. 1,382,070; June 21; v. 287; p. 443.
- Water-distilling apparatus. C. E. Kells. No. 1,366,465; Jan. 25; v. 282; p. 497.
- Water-distilling apparatus. C. E. Kells. No. 1,379,631; May 31; v. 286; p. 876.
- Water distributor and cleaner, Boiler-feed-. C. W. Reneau. No. 1,383,153; June 28; v. 287; p. 702.
- Water-elevating apparatus. E. O. Cartwright. No. 1,383,599; July 5; v. 288; p. 70.
- Water-elevating unit. E. E. Schumaker. No. 1,383,031; June 28; v. 287; p. 679.
- Water-elevator. H. N. Enholm. No. 1,365,901; Jan. 18; v. 282; p. 442.
- Water-fall, Imitation. K. W. H. Schroeder. No. 1,399,662; Dec. 6.
- Water-flow device. R. W. Andrews. No. 1,396,239; Nov. 8.
- Water for irrigation or other purposes, Device for controlling a supply of. R. G. Kennedy. No. 1,388,723; Aug. 23; v. 289; p. 727.
- Water from gasoline, Device for separating. G. D. Keffer. No. 1,369,113; Feb. 22; v. 283; p. 580.
- Water furnace, Hot-. G. H. Russell. No. 1,364,585; Jan. 4; v. 282; p. 104.
- Water-gage. G. H. Sargent. No. 1,380,079; May 31; v. 286; p. 960.
- Water-gage. G. H. Sargent. No. 1,380,080; May 31; v. 286; p. 961.
- Water-gage. G. H. Sargent. No. 1,395,062; Oct. 25.
- Water-gage cocks, Arrangement of. W. F. Kiesel, Jr. No. 1,388,115; Aug. 16; v. 289; p. 550.
- Water-gage or gage-cock. Y. Tajima. No. 1,373,274; Mar. 29; v. 284; p. 884.
- Water-gage safety device. E. Pulsifer. No. 1,364,410; Jan. 4; v. 282; p. 70.
- Water-heater. F. J. Clifford. No. 1,377,806; May 10; v. 286; p. 329.
- Water-heater. A. N. Clough. No. 1,399,192; Dec. 6.
- Water-heater. E. T. Curran. No. 1,397,268; Nov. 15.
- Water-heater. A. W. Empson. No. 1,367,502; Feb. 1; v. 283; p. 123.
- Water-heater. J. W. Ewart. No. 1,376,142; Apr. 26; v. 285; p. 668.
- Water-heater. A. T. Fowles. No. 1,382,495; June 21; v. 287; p. 523.
- Water-heater. J. W. Gamble. No. 1,395,981; Nov. 1.
- Water-heater. C. C. Hansen. No. 1,400,541; Dec. 20.
- Water-heater. J. G. Haus. No. 1,394,897; Oct. 25.
- Water-heater. A. J. Park. No. 1,372,447; Mar. 22; v. 284; p. 680.
- Water-heater. P. C. Sachse. No. 1,391,695; Sept. 27; v. 290; p. 658.
- Water-heater. O. P. Scott. No. 1,389,166; Aug. 30; v. 289; p. 870.
- Water-heater. S. C. Smith. No. 1,398,747; Nov. 29.
- Water-heater. R. M. Stephens. No. 1,366,752; Jan. 25; v. 282; p. 654.
- Water-heater. C. H. Toombs. No. 1,398,755; Nov. 29.
- Water-heater. R. W. Wiederwax. No. 1,391,354; Sept. 20; v. 290; p. 516.
- Water-heater. W. Wright. No. 1,388,684; Aug. 23; v. 289; p. 719.
- Water heater and condenser, Combined. F. J. Larkworthy. No. 1,371,250; Mar. 15; v. 284; p. 392.
- Water heater and dripper, Flexible. H. W. Christian. No. 1,390,500; Sept. 13; v. 290; p. 280.
- Water-heater and shower-bath, Combined. S. Buka. No. 1,372,598; Mar. 22; v. 284; p. 709.
- Water-heater, Automatic. G. S. Walker. No. 1,366,043; Jan. 18; v. 282; p. 470.
- Water-heater, Electric. H. W. Christian. No. 1,367,463; Feb. 1; v. 283; p. 116.
- Water-heater, Electric. F. Hachmann. No. 1,366,794; Jan. 25; v. 282; p. 662.
- Water-heater, Electric. R. S. Jacobsen. No. 1,396,121; Nov. 8.
- Water-heater, Electric. C. Kratt. No. 1,394,847; Oct. 25.
- Water-heater, Electric. S. I. Phelps. No. 1,399,515; Dec. 6.
- Water-heater, Electric. A. F. de Raignau. No. 1,386,607; Aug. 9; v. 289; p. 199.
- Water-heater, Electric. A. M. Werner. No. 1,387,819; Aug. 16; v. 289; p. 493.
- Water-heater, Portable. T. J. Dowd. No. 1,371,876; Mar. 15; v. 284; p. 514.
- Water-heater, Portable. A. Zebrowski. No. 1,381,533; June 14; v. 287; p. 281.
- Water-heaters, Automatic gas-valve for. F. W. Warner. No. 1,385,853; July 26; v. 288; p. 742.
- Water-heaters, &c., Coupling device for. C. P. Wadley. No. 1,398,985; Dec. 6.
- Water-heaters, Gas-shut-off control for. O. Schwimmer. No. 1,386,370; Aug. 2; v. 289; p. 80.
- Water-heating apparatus, Indirect. C. Smith. No. 1,379,581; May 24; v. 286; p. 792.
- Water-heating device. J. H. Bacon. Nos. 1,399,918-9; Dec. 13.
- Water-heating system. T. F. Noonan. No. 1,366,208; Jan. 18; v. 282; p. 501.
- Water in cooling-towers, Device for re-cooling the. F. Uhde. No. 1,383,039; June 28; v. 287; p. 681.
- Water in receptacles, Apparatus for indicating the height of. J. C. Fuller. No. 1,367,689; Feb. 8; v. 283; p. 217.
- Water-level-indicating apparatus, Electrical. W. D. Nickum. No. 1,388,479; Aug. 23; v. 289; p. 681.
- Water-level indicator. J. J. Ogilvie. No. 1,372,187; Mar. 22; v. 284; p. 630.
- Water-level-indicator instrument. H. S. Parks. No. 1,379,716; May 31; v. 286; p. 892.
- Water-lines, Strainer and fish-trap for. C. T. Denker and H. R. Winton. No. 1,370,685; Mar. 8; v. 284; p. 222.
- Water, Means for re-cooling. H. Boltshauser. No. 1,365,148; Jan. 11; v. 282; p. 256.
- Water-meter. R. S. Bassett. No. 1,390,664; Sept. 13; v. 290; p. 315.
- Water-meter. F. Lambert. No. 1,377,987; May 10; v. 286; p. 364.
- Water-meter. W. L. Marden. No. 1,400,559; Dec. 20.
- Water-meter. K. Mori. No. 1,384,329; July 12; v. 288; p. 271.
- Water-meter. E. A. Ritter. No. 1,390,645; Sept. 13; v. 290; p. 311.
- Water-meter box. N. Forni. No. 1,395,807; Nov. 1.
- Water-meters, &c., Register for. W. L. Marden. No. 1,397,534; Nov. 22.
- Water, Method and means of distilling. B. A. de Woern. No. 1,379,502; May 24; v. 286; p. 777.
- Water-motor. E. J. Brady. No. 1,388,018; Aug. 16; v. 289; p. 531.
- Water-motor. W. G. Brigger. No. 1,370,003; Mar. 1; v. 284; p. 47.
- Water-motor. J. J. Hood. No. 1,370,539; Mar. 8; v. 284; p. 194.
- Water-motor. O. L. Howe. No. 1,399,558; Dec. 6.
- Water-motor. E. Kunkel. No. 1,381,712; June 14; v. 287; p. 316.
- Water-motor. W. R. Morris. No. 1,377,719; May 10; v. 286; p. 311.
- Water-motor. S. Neumann. No. 1,394,212; Oct. 18.
- Water-motor. E. C. Reutlinger. No. 1,382,237; June 21; v. 287; p. 473.
- Water motor or pump, Rotary. F. H. Crago. No. 1,382,065; June 21; v. 287; p. 441.
- Water-motors, Piston and valve-operating mechanism for. P. F. Schneider. No. 1,369,134; Feb. 22; v. 283; p. 584.
- Water of crystallization from magnesium chlorides, Removing. H. H. Dow. No. 1,389,546; Aug. 30; v. 289; p. 946.
- Water or muck bailer. P. R. Gawthrop, Sr. No. 1,401,903; Dec. 27.
- Water-pillow. I. Eguchi. No. 1,381,067; June 7; v. 287; p. 143.
- Water-power system. H. Mortensen, Sr. No. 1,386,069; Aug. 2; v. 289; p. 22.
- Water, Purifying and clarifying of. M. Puiggari and N. Venezia. No. 1,392,524; Oct. 4.
- Water-repellent composition. G. A. Richter, W. B. Van Arsdal, and D. H. White. No. 1,396,527; Nov. 8.
- Water-rigging for stoping-drills. W. H. Joyce. No. 1,398,100; Nov. 22.
- Water-silencer. J. F. Webb, Sr. No. 1,383,886; July 5; v. 288; p. 130.
- Water-softening material, Manufacturing. J. B. Wherry. No. 1,388,133; Aug. 16; v. 289; p. 554.



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- Water-softening washing compound. O. Volz. No. 1,400,332; Dec. 13.
- Water-supply device, Aerated-. C. M. Frost. No. 1,391,311; Sept. 20; v. 290; p. 507.
- Water-supply pumping system, Electrical. G. M. Brown. No. 1,369,081; Feb. 22; v. 283; p. 573.
- Water-supply system. J. H. Valle. No. 1,365,359; Jan. 11; v. 282; p. 297.
- Water-treating apparatus. J. Roche and R. J. Parker. No. 1,371,814; Mar. 15; v. 284; p. 503.
- Water-trough. A. N. Menard. No. 1,400,449; Dec. 13.
- Water-tube boiler. W. Council. No. 1,391,300; Sept. 20; v. 290; p. 505.
- Water-tube boiler. F. M. Meyer. No. 1,391,558; Sept. 20; v. 290; p. 557.
- Water-tube boiler. J. Van Oosterwyck. No. 1,398,943; Nov. 29.
- Water-tube boiler and superheater therefor. R. S. Port-ham and J. Dornan. No. 1,375,174; Apr. 19; v. 285; p. 451.
- Water-tube boilers and making same, Form for molding monolithic baffle-walls for. W. A. Hoffman. No. 1,377,774; May 10; v. 286; p. 323.
- Water-tube steam-boiler. R. B. Armstrong. No. 1,383,590; July 5; v. 288; p. 69.
- Water-vaporizer. W. P. Kidder. No. 1,372,235; Mar. 22; v. 284; p. 640.
- Water-wheel. J. E. W. Branan. No. 1,367,532; Feb. 8; v. 283; p. 187.
- Water-wheel. L. E. Franke. No. 1,391,730; Sept. 27; v. 290; p. 665.
- Water-wheel. J. J. Hendley. No. 1,401,077; Dec. 20.
- Water-wheel. J. King. No. 1,392,893; Oct. 4.
- Water-wheel. C. A. Olcott. No. 1,373,260; Mar. 29; v. 284; p. 882.
- Water-wheel. C. A. Rowlett. No. 1,378,561; May 17; v. 286; p. 525.
- Water-wheel and dam, Combined. C. W. Smith. No. 1,373,456; Apr. 5; v. 285; p. 15.
- Water-wheels, Gate-operating mechanism for. W. Zaugg. No. 1,388,686; Aug. 23; v. 289; p. 720.
- Waters, Apparatus for controlling tide. A. Parker. No. 1,389,212; Aug. 30; v. 289; p. 879.
- Waterer and feeder. H. A. Foster. No. 1,391,824; Sept. 27; v. 290; p. 684.
- Waterer, Hog-. W. A. McCollough. No. 1,392,513; Oct. 4.
- Waterer, Jar-fountain. J. M. Flitcraft. No. 1,397,627; Nov. 22.
- Waterer, Poultry-. J. Krull. No. 1,384,699; July 12; v. 288; p. 349.
- Waterer, Poultry-. E. C. Mellick. No. 1,401,424; Dec. 27.
- Waterer, Stock-. H. B. Gogerty. No. 1,394,617; Oct. 25.
- Waterer, Stock-. W. M. Lester. No. 1,372,888; Mar. 29; v. 284; p. 808.
- Waterer, Stock-. E. W. Paulson. No. 1,372,188; Mar. 22; v. 284; p. 630.
- Waterer, Stock-. P. B. Thrasher. No. 1,395,750; Nov. 1.
- Waterer, Stock-. C. O. Whitnell. No. 1,368,216; Feb. 8; v. 283; p. 318.
- Watering and feeding machine, Stock. H. Burrmann. No. 1,381,400; June 14; v. 287; p. 256.
- Watering appliance, Stock-. O. M. Woods. No. 1,366,284; Jan. 18; v. 282; p. 507.
- Watering-bowl or drinking-fountain, Automatic. W. L. Martin. No. 1,393,303; Oct. 11.
- Watering device for baby-chicks. C. E. Erickson. No. 1,372,946; Mar. 29; v. 284; p. 820.
- Watering device for cattle. H. C. Rassmann. No. 1,384,346; July 12; v. 288; p. 275.
- Watering device, Stock-. E. S. Johnson. (Reissue.) No. 1,5139; July 5; v. 288; p. 161.
- Watering tanks, Heater for stock-. I. V. Hodgins. No. 1,372,815; Mar. 29; v. 284; p. 793.
- Watering-trough. B. E. Luckinbill. No. 1,383,646; July 5; v. 288; p. 80.
- Watering-trough. C. Schmidt. No. 1,383,342; July 5; v. 288; p. 17.
- Watermarking device. F. P. Klund. No. 1,386,411; Aug. 2; v. 289; p. 88.
- Waterproof cements, concretes, and mortars, Composition for and the production of. H. C. Badder. No. 1,396,546; Nov. 8.
- Waterproof cigarette-case. S. V. Roos and M. Josephs. No. 1,366,283; Jan. 18; v. 282; p. 517.
- Waterproof composition. W. C. Beyenberg. No. 1,390,424; Sept. 13; v. 290; p. 265.
- Waterproof composition. S. C. Graves. No. 1,382,077; June 21; v. 287; p. 444.
- Waterproof composition. L. Kirschbraum. No. 1,401,791; Dec. 27.
- Waterproof composition and making same. G. C. Bailey and F. Boettner. No. 1,364,475; Jan. 4; v. 282; p. 83.
- Waterproof covering and making same. O. A. Heppes. No. 1,376,092; Apr. 26; v. 285; p. 658.
- Waterproof electric heater. L. P. Hynes. No. 1,389,307; Aug. 30; v. 289; p. 898.
- Waterproof fabric. G. B. Smith. No. 1,364,818; Jan. 4; v. 282; p. 149.
- Waterproof fiber tube and making same. F. A. Birmingham. G. A. Richter, W. B. Van Arsdell, and D. H. White. No. 1,396,021; Nov. 8.
- Waterproof fibrous material and making same. G. A. Richter, W. B. Van Arsdell, and D. H. White. No. 1,396,060; Nov. 8.
- Waterproof gum. S. E. Brick. No. 1,389,575; Sept. 6; v. 290; p. 3.
- Waterproof printing fluid, Invisible. H. P. Pearson. No. 1,401,357; Dec. 27.
- Waterproof roofing, Machine for making flexible. S. H. Goldberg. No. 1,392,323; Oct. 4.
- Waterproof sheet and flashing receptacle, Combined. J. I. Holder. No. 1,377,349; May 10; v. 286; p. 242.
- Waterproofing. W. Alexander. No. 1,385,854; July 26; v. 288; p. 742.
- Waterproofing. A. Mohn. No. 1,397,738; Nov. 22.
- Waterproofing and sizing composition, Adhesive. A. E. Craver. No. 1,373,412; Apr. 5; v. 285; p. 6.
- Waterproofing cloth, Composition for. N. C. Bissell. No. 1,391,934; Sept. 27; v. 290; p. 707.
- Waterproofing composition. O. H. Brauser and M. H. Oakes. No. 1,399,724; Dec. 6.
- Waterproofing composition. T. Bosshard. No. 1,383,068; June 28; v. 287; p. 686.
- Waterproofing composition and making same. W. G. Abbott, Jr. No. 1,395,885; Nov. 1.
- Waterproofing composition and making same. A. de Ciciliani. No. 1,390,236; Sept. 6; v. 290; p. 135.
- Waterproofing composition and making same. T. Shibata and E. Oe. No. 1,380,428; June 7; v. 287; p. 20.
- Waterproofing leather, cloth, or wood. J. Zoltowski. No. 1,391,088; Sept. 20; v. 290; p. 462.
- Waterproofing material and making same. H. H. Hurt. No. 1,400,164; Dec. 13.
- Waterproofing material and making same. L. M. Kregelius. No. 1,382,986; June 28; v. 287; p. 671.
- Waterproofing substance for fibrous material. A. O. Tate. No. 1,400,579; Dec. 20.
- Wave action, Protecting objects from. P. Brasher. No. 1,391,992; Sept. 27; v. 290; p. 719.
- Wave distribution. H. C. Egerton. No. 1,365,470; Jan. 11; v. 282; p. 319.
- Wave force, Apparatus for utilizing. G. L. Hutchinson. No. 1,366,002; Jan. 18; v. 282; p. 462.
- Wave-motor. H. Godfrey. No. 1,370,304; Mar. 1; v. 284; p. 104.
- Wave-motor. R. Harris. No. 1,379,183; May 24; v. 286; p. 717.
- Wave-motor. S. D. Master. No. 1,385,879; July 26; v. 288; p. 747.
- Wave-motor. T. A. McCulley. No. 1,385,083; July 19; v. 288; p. 509.
- Wave-motor. A. W. H. Warschavsky. No. 1,379,145; May 24; v. 286; p. 710.
- Wave-motor. A. Whittle. No. 1,385,738; July 26; v. 288; p. 719.
- Wave-motor. J. S. Wilkin. No. 1,369,593; Feb. 22; v. 283; p. 673.
- Wave-operated device. P. J. Kilcullen. No. 1,396,580; Nov. 8.
- Wave or tide motor. C. L. Ervin. No. 1,376,140; Apr. 26; v. 285; p. 667.
- Wave-signaling, Receiving apparatus for. R. V. L. Hartley. No. 1,387,262; Aug. 9; v. 289; p. 328.
- Wax-finish remover. J. F. Hurley. No. 1,380,299; May 31; v. 286; p. 1002.
- Wax, Floor-. J. P. Steidle. No. 1,389,391; Aug. 30; v. 289; p. 915.
- Wax flowers and making them. L. D. Singer. No. 1,400,324; Dec. 13.
- Waxer, Iron-. W. H. Steinbrenner. No. 1,370,712; Mar. 8; v. 284; p. 227.
- Wax-melting machine, and seal-maker. J. A. Clifton. No. 1,393,263; Oct. 11.
- Waxing and polishing device, Floor. E. O. E. Blomquist. No. 1,394,662; Oct. 25.
- Weaner. W. R. Barger. No. 1,375,031; Apr. 19; v. 285; p. 423.
- Weaner. F. E. Johnson. No. 1,384,721; July 12; v. 288; p. 353.
- Weaner. F. E. Johnson. No. 1,395,116; Oct. 25.
- Weaner and the like, Calf-. J. Reichert. No. 1,366,099; Jan. 18; v. 282; p. 481.
- Weaner and the like, (jointed.) Calf-. J. Reichert. No. 1,366,133; Jan. 18; v. 282; p. 487.
- Weaner, Calf-. J. Freeman. No. 1,372,806; Mar. 29; v. 284; p. 791.
- Weaner, Calf-. C. J. Sundstrom. No. 1,383,442; July 5; v. 288; p. 38.
- Wearing-apparel. F. Wiberley. No. 1,396,799; Nov. 15.
- Weather-board. M. K. Armstrong. No. 1,399,455; Dec. 6.
- Weather-board gage. E. Ulven. No. 1,377,945; May 10; v. 286; p. 357.
- Weather-indicator. W. Margraf. No. 1,387,287; Aug. 9; v. 289; p. 334.
- Weather-strip. J. P. Glaser. No. 1,379,910; May 31; v. 286; p. 927.
- Weather-strip. J. P. Glaser. No. 1,379,911; May 31; v. 286; p. 928.
- Weather-strip. J. P. Glaser. No. 1,379,912; May 31; v. 286; p. 928.
- Weather-strip. J. P. Glaser. No. 1,379,913; May 31; v. 286; p. 929.
- Weather-strip. C. M. Jones. No. 1,401,409; Dec. 27.
- Weather-strip. J. H. Osborn. No. 1,397,979; Nov. 22.
- Weather-strip. F. A. Stickle. No. 1,398,284; Nov. 29.
- Weather-strip, Automatic. W. J. Dillard and J. D. Taylor. No. 1,398,181; Nov. 22.



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- Weather-stripping. E. H. Berg. No. 1,400,206; Dec. 13.  
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Weaving-machine. A. Wild. No. 1,386,826; Aug. 9; v. 289; p. 243.  
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Weaving mechanism. A. Le Blanc. No. 1,379,193; May 24; v. 286; p. 719.  
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Web-tightening mechanism. T. and E. L. Vicars. No. 1,386,529; Aug. 2; v. 289; p. 110.  
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Weft-replenishing mechanism. E. H. Ryon. No. 1,366,951; Feb. 1; v. 283; p. 14.  
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Weight-supporting platform. M. B. Mills. No. 1,384,478; July 12; v. 288; p. 302.  
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Welding. J. W. Fay. No. 1,372,805; Mar. 29; v. 284; p. 791.  
Welding. W. A. Pratt. No. 1,366,593; Jan. 25; v. 282; p. 622.  
Welding and brazing. E. H. Jones. No. 1,387,157; Aug. 9; v. 289; p. 309.  
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Welding, Apparatus for electric. G. H. Forsyth. No. 1,375,687; Apr. 26; v. 285; p. 581.  
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Welding, Electric. C. H. Kicklighter. No. 1,367,552; Feb. 8; v. 283; p. 191.  
Welding, Electric percussive. L. W. Chubb. No. 1,373,054; Mar. 29; v. 284; p. 840.  
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Welding, Joining metal by electric. C. H. Kicklighter. No. 1,367,553; Feb. 8; v. 283; p. 191.  
Welding low-melting-point metals and alloys to high-melting-point metals. C. A. Laise. No. 1,390,243; Sept. 6; v. 290; p. 136.  
Welding-machine, Resistance. S. Thronsen. No. 1,376,657; May 3; v. 286; p. 52.  
Welding-machine, Rotary. W. S. Southwick. No. 1,367,212; Feb. 1; v. 283; p. 66.  
Welding method, machine and welded chain, Electric. F. E. Stahl. No. 1,370,926; Mar. 8; v. 284; p. 267.  
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Welding plates, Apparatus for electrically. T. E. Murray, Jr. No. 1,370,987; Mar. 8; v. 284; p. 279.  
Welding, Process of and apparatus for electric-arc. R. C. Knoll. No. 1,381,647; June 14; v. 287; p. 303.  
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Welding sheet-zinc lap-seams, Electrically. E. Schröder. No. 1,369,360; Feb. 22; v. 283; p. 628.  
Welding-shield. W. G. King. No. 1,370,121; Mar. 1; v. 284; p. 69.  
Welding system, Arc-. O. H. Eschholz. No. 1,374,557; Apr. 12; v. 285; p. 269.  
Welding system, Electric. D. H. Wilson. No. 1,386,215; Aug. 2; v. 289; p. 51.  
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Well-boring apparatus. B. Boykin, Jr. No. 1,398,413; Nov. 29.



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- Well-boring apparatus, Automatic slip for. W. G. Vreeland. No. 1,400,701; Dec. 20.
- Well-boring machine. J. E. Kellar. No. 1,392,945; Oct. 11.
- Well-boring machine. G. F. Ormsbee. No. 1,366,826; Jan. 25; v. 282; p. 668.
- Well-casing extractor. F. M. Price. No. 1,387,944; Aug. 16; v. 289; p. 517.
- Well-casing wrench. V. W. Zillen and R. E. Fair. No. 1,380,513; June 7; v. 287; p. 36.
- Well-casings. Release-joint for. P. S. Hovis. No. 1,370,447; Mar. 1; v. 284; p. 131.
- Well-cleaner. A. Scheurer. No. 1,400,996; Dec. 20.
- Well-cleaning device. F. E. Crotto. No. 1,400,030; Dec. 13.
- Well-digger. W. V. Seifert. No. 1,388,314; Aug. 23; v. 289; p. 648.
- Well-drill. M. Elchinko. No. 1,368,126; Feb. 8; v. 283; p. 300.
- Well-drill bit. W. E. Minton. No. 1,372,894; Mar. 29; v. 284; p. 809.
- Well-drill socket. E. W. Bell. No. 1,390,750; Sept. 13; v. 290; p. 331.
- Well-drill wrench. W. H. Ellinger. No. 1,396,099; Nov. 8.
- Well-drill wrench. W. H. Ellinger. No. 1,397,044; Nov. 15.
- Well-drilling apparatus. E. C. Drake. No. 1,390,025; Sept. 6; v. 290; p. 94.
- Well-drilling apparatus. G. S. Minshall. No. 1,396,649; Nov. 8.
- Well-drilling apparatus. W. Overkamp. No. 1,384,629; July 12; v. 288; p. 334.
- Well-drilling apparatus. J. B. Wooldridge. No. 1,370,677; Mar. 8; v. 284; p. 221.
- Well-drilling apparatus. Crown-block for. W. G. Vreeland. No. 1,368,775; Feb. 15; v. 283; p. 475.
- Well-drilling apparatus. Drill-head for. S. C. Gilthorpe. No. 1,391,626; Sept. 20; v. 290; p. 571.
- Well-drilling apparatus. Rotary. E. E. Greve. No. 1,377,575; May 10; v. 286; p. 284.
- Well-drilling apparatus. Rotary. E. E. Greve. No. 1,395,706; Nov. 1.
- Well-drilling bit. O. J. Bourgois. No. 1,400,794; Dec. 20.
- Well-drilling bit. P. G. Midgett. No. 1,387,733; Aug. 16; v. 289; p. 475.
- Well-drilling device. J. B. Wooldridge. No. 1,376,302; Apr. 26; v. 285; p. 698.
- Well-drilling device. Deep-. L. E. Nebergall. No. 1,374,946; Apr. 19; v. 285; p. 406.
- Well-drilling head. Rotary. J. V. Box. No. 1,383,785; July 5; v. 288; p. 110.
- Well-drilling machine. A. C. Bradshaw. No. 1,369,614; Feb. 22; v. 283; p. 677.
- Well-drilling machine. E. L. Dillon. No. 1,393,350; Oct. 11.
- Well-drilling machine. L. B. Ekas. No. 1,397,758; Nov. 22.
- Well-drilling machine. F. A. Focks. No. 1,371,884; Mar. 15; v. 284; p. 516.
- Well-drilling machine. Rotary. W. H. Taylor. No. 1,386,908; Aug. 9; v. 289; p. 260.
- Well-drilling rigs. Signal and registering mechanism for. G. D. Morrison. No. 1,375,410; Apr. 19; v. 285; p. 495.
- Well-drilling tool. W. G. Blodgett. No. 1,375,817; Apr. 26; v. 285; p. 604.
- Well-drilling tool. F. H. Clore. No. 1,373,996; Apr. 5; v. 285; p. 121.
- Well-drilling tools. Temper-screw for. R. E. Neilson. No. 1,400,900; Dec. 20.
- Well-elevator. W. L. Dunn. No. 1,385,435; July 26; v. 288; p. 656.
- Well-liner clamp. R. J. Bigelow. No. 1,380,182; May 31; v. 286; p. 980.
- Well-packer. P. H. Mack. No. 1,371,503; Mar. 15; v. 284; p. 443.
- Well-plug. G. W. Mauzey. No. 1,379,119; May 24; v. 286; p. 705.
- Well-screen. M. E. Layne. No. 1,366,087; Jan. 18; v. 282; p. 479.
- Well-screen. M. McLean. No. 1,367,406; Feb. 1; v. 283; p. 104.
- Well-screen and making same. M. E. Layne. No. 1,367,609; Feb. 8; v. 283; p. 202.
- Well-screen cleaner. S. F. Bashara. No. 1,380,517; June 7; v. 287; p. 36.
- Well-screens and means for setting same. Seal for. A. Thomson and V. B. Daniels. No. 1,382,255; June 21; v. 287; p. 477.
- Well-seal. P. H. Mack. No. 1,395,720; Nov. 1.
- Well-tool. Self-balling. L. Garrison. No. 1,399,108; Dec. 6.
- Well-tubing catcher. B. F. Kelley. No. 1,367,399; Feb. 1; v. 283; p. 103.
- Well-tubing catcher. R. A. Wilson. No. 1,374,540; Apr. 12; v. 285; p. 266.
- Well-washer. F. E. Crotte. No. 1,384,305; July 12; v. 288; p. 266.
- Well-washing device. F. E. Crotto. No. 1,401,464; Dec. 27.
- Wells and pipe-lines. Oil-trap for. J. T. Kyle and V. W. Russell. No. 1,390,793; Sept. 13; v. 290; p. 340.
- Wells. Apparatus for forcing fluid from. C. G. Bodungen. No. 1,369,318; Feb. 22; v. 283; p. 619.
- Wells. Apparatus for separating and collecting fluids in. M. E. Layne. No. 1,382,295; June 21; v. 287; p. 485.
- Wells. Cementing. P. B. Kinnear. No. 1,381,645; June 14; v. 287; p. 302.
- Wells. Cleaning oil-. G. C. Bellis. No. 1,382,337; June 21; v. 287; p. 492.
- Wells. Control-head for oil-. D. Breeding. No. 1,372,399; Mar. 22; v. 284; p. 671.
- Wells. Coupling for sucker-rods of oil and water. R. R. Renfro. No. 1,372,905; Mar. 29; v. 284; p. 811.
- Wells. Drilling. J. A. and G. A. Fitzpatrick. No. 1,394,192; Oct. 18.
- Wells. Drilling. W. E. Nolan. No. 1,401,488; Dec. 27.
- Wells. Excluding extraneous fluids from. J. C. Swan. No. 1,379,657; May 31; v. 286; p. 881.
- Wells. Expansive plug for. W. G. Haynes. No. 1,388,564; Aug. 23; v. 289; p. 696.
- Wells. Heating apparatus for use in oil-. J. C. Stephens. No. 1,383,670; July 5; v. 288; p. 86.
- Wells. Heating apparatus for use in oil-. J. C. Stephens. No. 1,383,777; July 5; v. 288; p. 108.
- Wells. Method and apparatus for operating oil-. M. W. Quick. No. 1,369,049; Feb. 22; v. 283; p. 567.
- Wells. Method and means for cementing oil-. E. P. Halliburton. No. 1,369,891; Mar. 1; v. 284; p. 26.
- Wells. Method and means for facilitating sealing deep. H. C. Pendleton. No. 1,393,311; Oct. 11.
- Wells. Method of and apparatus for pumping petroleum-oil from. J. W. Herron. No. 1,376,877; May 3; v. 286; p. 95.
- Wells or the like. Tubing-catcher for oil-. W. H. McKissick. (Reissue.) No. 15,075; Mar. 29; v. 284; p. 908.
- Wells. Packer for. W. W. Fondren. No. 1,382,770; June 28; v. 287; p. 630.
- Wells. Preventing caving in. J. C. Swan. No. 1,379,656; May 31; v. 286; p. 881.
- Wells. Process of and apparatus for drilling oil-. R. E. Leonard. No. 1,400,962; Dec. 20.
- Wells. Safety device for. J. F. McDowell. No. 1,370,140; Mar. 1; v. 284; p. 72.
- Wells. Sealing the walls of deep. W. E. Nolan. No. 1,398,563; Nov. 29.
- Wells. System for removing obstructions to the flow of fluid in the earth strata adjacent to. B. F. Gardner. No. 1,372,743; Mar. 29; v. 284; p. 778.
- Wells. Valve-cap for high-pressure. R. E. Franklin. No. 1,368,623; Feb. 15; v. 283; p. 445.
- Well-beating machine. A. R. Schoenky. No. 1,382,443; June 21; v. 287; p. 514.
- Well-butting machine. F. M. Furber. No. 1,368,331; Feb. 15; v. 283; p. 388.
- Well grooving and beveling machine. J. O. Perkins. No. 1,395,765; Nov. 1.
- Well-laying machine. C. P. Stanbon. No. 1,370,613; Mar. 8; v. 284; p. 208.
- Well or rand. E. A. Young. No. 1,393,478; Oct. 11.
- Well-strip and making same. E. W. Dunbar. No. 1,375,283; Apr. 19; v. 285; p. 472.
- Wells. Making. E. A. Young. No. 1,393,477; Oct. 11.
- Wellting. E. A. Young. No. 1,393,476; Oct. 11.
- Well-machine. H. A. Constantine. No. 1,380,637; June 7; v. 287; p. 59.
- Wheel. See—
- Amusement-wheel.
  - Auto-wheel.
  - Automobile-wheel.
  - Ball-bearing string-proof wheel.
  - Buffing or polishing wheel.
  - Car-wheel.
  - Cast-metal wheel.
  - Cast-rim disk wheel.
  - Cast-steel-spoked wheel.
  - Caster-wheel.
  - Composite gear-wheel.
  - Cushion-wheel.
  - Cushioned wheel.
  - Cushioned vehicle-wheel.
  - Demountable wheel.
  - Demountable automatic wheel.
  - Detachable wheel.
  - Disk wheel.
  - Disk steel wheel.
  - Disk vehicle-wheel.
  - Drive-wheel.
  - Driving and steering wheel.
  - Elastic wheel.
  - Endless-runner wheel.
  - Excavating-wheel.
  - Fifth-wheel.
  - Finishing-wheel.
  - Flanged wheel.
  - Inner cushioned wheel.
  - Interchangeable wheel.
  - Gear-wheel.
  - Grinding-wheel.
  - Hand-wheel.
  - Hollow-rolled-rim wheel.
  - Locomotive driving-wheel.
  - Loose-tread traction-wheel.
  - Metal wheel.
  - Metal vehicle-wheel.
  - Metallic wheel.
  - Mine-car wheel.
  - Motor-wheel.
  - Motor-vehicle wheel.
  - Multiple-tread wheel.
  - Non-skid wheel.
  - Paddle-wheel.
  - Pinwheel.
  - Pipe-cutting wheel.
  - Plate disk wheel.
  - Plate-web wheel.
  - Plow-wheel.
  - Pneumatic wheel.
  - Pneumatic vehicle-wheel.
  - Polishing-wheel.
  - Power-wheel.
  - Power-contained drive-wheel.
  - Pressed-plate wheel.
  - Pressed-steel wheel.
  - Pressed-steel vehicle-wheel.
  - Resilient wheel.
  - Resilient-vehicle wheel.
  - Sectional gear-wheel.
  - Sectional hollow cast-metal spoke-wheel.
  - Sheet-metal wheel.
  - Spoke-wheel.
  - Sprayer paddle-wheel.
  - Spring-wheel.
  - Sprocket gear-wheel.
  - Steel-felly wheel.
  - Steering-wheel.
  - Suspension-wheel.
  - Tension-plate wheel.
  - Tire-dressing wheel.



## Alphabetical list of inventions—Continued.

- Wheel: *See*—Continued.  
 Toothed wheel.  
 Toy wheel.  
 Toy wind-wheel.  
 Traction-wheel.  
 Tractor-wheel.  
 Tractor axle and wheel.  
 Transmitting traction-wheel.  
 Tricad-wheel.  
 Trolley-wheel.  
 Wheel. G. E. Alexander. No. 1,379,507; May 24; v. 286; p. 778.  
 Wheel. M. H. Ambrose. No. 1,381,100; June 14; v. 287; p. 201.  
 Wheel. P. G. Anderson. No. 1,370,723; Mar. 8; v. 284; p. 230.  
 Wheel. G. Baumann. No. 1,389,807; Sept. 6; v. 290; p. 49.  
 Wheel. W. Z. Black and D. W. Butz. No. 1,390,871; Sept. 13; v. 290; p. 355.  
 Wheel. J. A. Carter. No. 1,376,603; May 3; v. 286; p. 43.  
 Wheel. W. E. Crawford. No. 1,376,259; Apr. 26; v. 285; p. 689.  
 Wheel. T. G. Dade. No. 1,386,164; Aug. 2; v. 289; p. 40.  
 Wheel. E. P. Dickey. No. 1,394,477; Oct. 18.  
 Wheel. M. B. Giberson. No. 1,396,107; Nov. 8.  
 Wheel. C. P. Gifford. No. 1,364,877; Jan. 11; v. 282; p. 204.  
 Wheel. E. E. Hans. No. 1,378,025; May 17; v. 286; p. 423.  
 Wheel. T. C. Harvey. No. 1,400,437; Dec. 13.  
 Wheel. M. P. Holmes. No. 1,387,398; Aug. 9; v. 289; p. 357.  
 Wheel. R. Hoopes. No. 1,384,194; July 12; v. 288; p. 243.  
 Wheel. T. M. Hoskins. No. 1,365,404; Jan. 11; v. 282; p. 306.  
 Wheel. J. O. Johnston. No. 1,386,784; Aug. 9; v. 289; p. 234.  
 Wheel. W. B. Kerrick. No. 1,377,353; May 10; v. 286; p. 243.  
 Wheel. W. B. Kerrick. No. 1,377,354; May 10; v. 286; p. 243.  
 Wheel. K. Knudsen. No. 1,366,083; Jan. 18; v. 282; p. 478.  
 Wheel. E. M. G. Lepère. No. 1,365,835; Jan. 18; v. 282; p. 430.  
 Wheel. F. L. Minnick. No. 1,401,620; Dec. 27.  
 Wheel. H. C. Muhlbach. No. 1,374,217; Apr. 12; v. 285; p. 203.  
 Wheel. L. H. Perlman. No. 1,374,099; Apr. 5; v. 285; p. 140.  
 Wheel. L. H. Perlman. No. 1,374,100; Apr. 5; v. 285; p. 140.  
 Wheel. L. H. Perlman. No. 1,374,101; Apr. 5; v. 285; p. 140.  
 Wheel. L. H. Perlman. No. 1,374,103; Apr. 5; v. 285; p. 141.  
 Wheel. L. H. Perlman. No. 1,374,104; Apr. 5; v. 285; p. 141.  
 Wheel. L. H. Perlman. No. 1,374,106; Apr. 5; v. 285; p. 141.  
 Wheel. L. H. Perlman. No. 1,374,107; Apr. 5; v. 285; p. 141.  
 Wheel. L. H. Perlman. No. 1,388,197; Aug. 23; v. 289; p. 623.  
 Wheel. H. D. Rey. No. 1,387,179; Aug. 9; v. 289; p. 313.  
 Wheel. R. R. Root. No. 1,395,734; Nov. 1.  
 Wheel. A. H. Shoemaker. No. 1,372,982; Mar. 29; v. 284; p. 827.  
 Wheel. A. H. Shoemaker. No. 1,379,054; May 24; v. 286; p. 692.  
 Wheel. A. K. Simmons. No. 1,376,589; May 3; v. 286; p. 40.  
 Wheel. E. E. Slick. No. 1,377,634; May 10; v. 286; p. 296.  
 Wheel. F. S. Stafford. No. 1,392,367; Oct. 4.  
 Wheel. F. S. Stafford. No. 1,395,456; Nov. 1.  
 Wheel. F. S. Stafford. No. 1,399,410; Dec. 6.  
 Wheel. C. E. Stailey and E. H. Blazer. No. 1,393,711; Oct. 11.  
 Wheel. C. A. Sullivan. No. 1,394,372; Oct. 18.  
 Wheel. H. Ysskin. No. 1,394,461; Oct. 18.  
 Wheel. J. H. Wagenhorst. No. 1,369,859; Mar. 1; v. 284; p. 20.  
 Wheel. O. R. Winders. No. 1,366,619; Jan. 25; v. 282; p. 628.  
 Wheel. G. Yates. No. 1,375,545; Apr. 19; v. 285; p. 521.  
 Wheel-alignment gage. D. L. Rowe. No. 1,399,228; Dec. 6.  
 Wheel-anchor, Adjustable. E. S. Stotts. No. 1,396,076; Nov. 8.  
 Wheel-anchoring device. W. W. Blakely and F. W. Knott. No. 1,376,186; Apr. 26; v. 285; p. 675.  
 Wheel and bearing therefor. A. F. Grainer. No. 1,382,355; June 21; v. 287; p. 496.  
 Wheel and bucket mounting. Turbine. L. A. Darling. No. 1,366,119; Jan. 18; v. 282; p. 484.  
 Wheel and pulley remover. O. W. Kellen. No. 1,367,816; Feb. 8; v. 283; p. 242.  
 Wheel and demountable rim. J. Eulberg. No. 1,387,372; Aug. 9; v. 289; p. 352.  
 Wheel and rim. J. H. Wagenhorst. No. 1,366,042; Jan. 18; v. 282; p. 470.  
 Wheel and resilient tire for road-vehicles. W. Alderson. No. 1,389,729; Sept. 6; v. 290; p. 34.  
 Wheel and shafts. J. C. Hudson. No. 1,392,501; Oct. 4.  
 Wheel and wheel-fitter. E. B. Killen. No. 1,379,577; May 24; v. 286; p. 791.  
 Wheel assembly, Drive-. S. V. and M. G. Dusseau. No. 1,387,967; Aug. 16; v. 289; p. 521.  
 Wheel attachment. E. H. Chadderdon. No. 1,374,428; Apr. 12; v. 285; p. 244.  
 Wheel attachment. G. P. Knudson. No. 1,394,680; Oct. 25.  
 Wheel attachment, Traction-. W. Webber. No. 1,388,985; Aug. 30; v. 289; p. 834.  
 Wheel blocking and jacking device. A. M. Bellony. No. 1,398,534; Nov. 29.  
 Wheel-brake. A. G. Herreshoff and A. Lucand. No. 1,396,958; Nov. 15.  
 Wheel-chain-tightening tool. Z. A. Lavoie. No. 1,386,413; Aug. 2; v. 289; p. 89.  
 Wheel-chock device. J. C. Monahan. No. 1,401,350; Dec. 27.  
 Wheel-colter. L. K. Benedict. No. 1,379,613; May 31; v. 286; p. 873.  
 Wheel, Combination roller and ball bearing. J. L. Chesnutt. No. 1,386,160; Aug. 2; v. 289; p. 39.  
 Wheel-compressing machine. F. Loufek. No. 1,378,700; May 17; v. 286; p. 553.  
 Wheel construction. A. H. Anthony and C. E. Nordfeldt. No. 1,396,310; Nov. 8.  
 Wheel construction. A. Genton. No. 1,379,859; May 31; v. 286; p. 918.  
 Wheel construction. O. H. Johnson. No. 1,390,909; Sept. 13; v. 290; p. 363.  
 Wheel construction. W. S. Purdy. No. 1,369,541; Feb. 22; v. 283; p. 662.  
 Wheel construction, Disk-. R. C. Hoffman. No. 1,387,982; Aug. 16; v. 289; p. 524.  
 Wheel construction, Fifth-. C. C. Keesler and F. A. Clock. No. 1,397,688; Nov. 22.  
 Wheel construction, Semiwood. E. K. Baker. No. 1,368,421; Feb. 15; v. 283; p. 406.  
 Wheel, Demountable. B. R. Taggart. No. 1,371,710; Mar. 15; v. 284; p. 483.  
 Wheel device, Fifth-. J. Morrison. No. 1,377,138; May 3; v. 286; p. 144.  
 Wheel-dresser. F. Dawson. No. 1,369,789; Mar. 1; v. 284; p. 57.  
 Wheel-dressing tool. O. A. Miller. No. 1,387,427; Aug. 9; v. 289; p. 863.  
 Wheel-drive. H. Nelson. No. 1,375,259; Apr. 19; v. 285; p. 466.  
 Wheel drive, Four-. R. D. Smith and A. Christopherson. No. 1,392,365; Oct. 4.  
 Wheel drive mechanism, Four-. G. W. Smith. No. 1,386,967; Aug. 9; v. 289; p. 271.  
 Wheel equipment, Demountable-. J. S. Williams. No. 1,394,658; Oct. 25.  
 Wheel-facing machine. G. F. Kight. No. 1,371,791; Mar. 15; v. 284; p. 498.  
 Wheel-fellies, Driving-arch for. L. B. Harvey. No. 1,389,139; Aug. 30; v. 289; p. 865.  
 Wheel-fender. A. M. Hudson. No. 1,393,020; Oct. 11.  
 Wheel for machines moving over soft ground, Driving-. J. G. Schulz. No. 1,386,281; Aug. 2; v. 289; p. 63.  
 Wheel for road-vehicles. S. Penney. No. 1,390,970; Sept. 13; v. 290; p. 376.  
 Wheel grip, Motor-. B. A. Pennock. No. 1,369,264; Feb. 22; v. 283; p. 609.  
 Wheel-guard. J. O. Johnston. No. 1,373,889; Apr. 5; v. 285; p. 99.  
 Wheel-guard. J. O. Johnston. No. 1,375,392; Apr. 19; v. 285; p. 492.  
 Wheel gudgeon, Bull and calf. W. M. Keck. No. 1,366,464; Jan. 25; v. 282; p. 596.  
 Wheel, Hand-. H. W. Dover. No. 1,398,069; Nov. 22.  
 Wheel having self-contained motor. D. Marshall. No. 1,384,142; July 12; v. 288; p. 233.  
 Wheel-hub. P. J. Kilcullen. No. 1,400,442; Dec. 13.  
 Wheel-hub. B. C. Zuhars and H. D. Clarke. No. 1,374,133; Apr. 5; v. 285; p. 146.  
 Wheel-hub and brake-drum, Combined. J. W. White. No. 1,387,444; Aug. 9; v. 289; p. 366.  
 Wheel-hub caps, Fastener for. J. L. and A. C. Vauclain. No. 1,382,577; June 21; v. 287; p. 539.  
 Wheel-hub-locking device. D. R. Murphey. No. 1,384,083; July 12; v. 288; p. 220.  
 Wheel-lock. M. Branco. No. 1,388,322; Aug. 23; v. 289; p. 649.  
 Wheel-lock. R. S. Lawrence. No. 1,386,414; Aug. 2; v. 289; p. 89.  
 Wheel-lock. D. J. Raddick. No. 1,394,219; Oct. 18.  
 Wheel lock, Steering-. R. T. Binder. No. 1,390,952; Sept. 13; v. 290; p. 372.  
 Wheel lock, Steering-. R. T. Binder. No. 1,390,953; Sept. 13; v. 290; p. 372.  
 Wheel-locking device. H. Nicodemus. No. 1,401,721; Dec. 27.



- Wheel, Metal vehicle. M. P. Winther. No. 1,364,341; Jan. 4; v. 282; p. 67.
- Wheel mount, Loose. A. Genton. No. 1,379,860; May 31; v. 286; p. 919.
- Wheel-mounting. A. J. Baumler. No. 1,367,006; Feb. 1; v. 283; p. 25.
- Wheel-mounting. C. A. Baumler. No. 1,401,939; Dec. 27.
- Wheel-mounting. E. E. Berry. No. 1,380,462; June 7; v. 287; p. 26.
- Wheel or pulley. G. T. Guy. No. 1,369,337; Feb. 22; v. 283; p. 623.
- Wheel, Polishing. D. F. McGovern. (Reissue.) No. 1,524,545; Dec. 6.
- Wheel-protector. A. Diana. No. 1,374,065; Apr. 5; v. 285; p. 133.
- Wheel-protector. A. Mull. No. 1,381,583; June 14; v. 287; p. 291.
- Wheel-puller. T. H. Jacob. No. 1,367,744; Feb. 8; v. 283; p. 228.
- Wheel-puller. A. B. Klay. No. 1,376,340; Apr. 26; v. 285; p. 705.
- Wheel-puller, Hydraulic. C. W. Wood and E. C. Kelly. No. 1,387,674; Aug. 16; v. 289; p. 463.
- Wheel-rack, Portable. H. A. House, Jr. No. 1,380,802; June 7; v. 287; p. 92.
- Wheel, Resilient. J. Pronovost. No. 1,396,233; Nov. 8.
- Wheel-rim. H. C. Babel. No. 1,374,272; Apr. 12; v. 285; p. 214.
- Wheel-rim. J. J. Tierney. No. 1,369,575; Feb. 22; v. 283; p. 669.
- Wheel-rim, Collapsible. E. A. Jones. No. 1,364,935; Jan. 11; v. 282; p. 215.
- Wheel-rim, Demountable. N. Schenk. No. 1,386,368; Aug. 2; v. 289; p. 80.
- Wheel-rim, Demountable. F. Wildhaber and A. L. Warren. No. 1,389,470; Aug. 30; v. 289; p. 931.
- Wheel-rim-fastening device. F. F. Enter. No. 1,379,856; May 31; v. 286; p. 918.
- Wheel-rim, Resilient and demountable. B. A. Raynor. No. 1,374,113; Apr. 5; v. 285; p. 142.
- Wheel rim, Vehicle. J. H. Cockrill. No. 1,389,937; Sept. 6; v. 290; p. 76.
- Wheel rim, Vehicle. J. C. Theberath. No. 1,401,015; Dec. 20.
- Wheel-rolling mill. H. C. L. von Philip. No. 1,371,009; Mar. 8; v. 284; p. 283.
- Wheel-skid, Emergency. C. D. Oland. No. 1,375,063; Apr. 19; v. 285; p. 429.
- Wheel spindle, Vehicle. M. Fisher. No. 1,401,900; Dec. 27.
- Wheel structure. A. Closs. No. 1,368,899; Feb. 15; v. 283; p. 499.
- Wheel support, Demountable. G. G. C. Flintermann. No. 1,397,626; Nov. 22.
- Wheel traction and antislip device. C. W. Hodges. No. 1,372,692; Mar. 29; v. 284; p. 768.
- Wheel-traction device. J. W. White. No. 1,384,546; July 12; v. 288; p. 316.
- Wheel-tread. J. D. Ingram. No. 1,367,661; Feb. 8; v. 283; p. 212.
- Wheel-tread. J. D. Ingram. No. 1,372,951; Mar. 29; v. 284; p. 821.
- Wheel-trimming machine. T. Larsson. No. 1,377,991; May 10; v. 286; p. 365.
- Wheel-turning machine. M. J. Sielaff. No. 1,366,543; Jan. 25; v. 282; p. 612.
- Wheels, Adjustable tractive attachment for traction. R. D. Ballard. No. 1,376,792; May 3; v. 286; p. 78.
- Wheels and rims, Making disk. R. C. Hoffman. No. 1,376,622; May 3; v. 286; p. 46.
- Wheels, Antiskid chain for. J. F. Herman. No. 1,383,628; July 5; v. 288; p. 77.
- Wheels, Antislip device for vehicle. J. McDermott. No. 1,389,204; Aug. 30; v. 289; p. 878.
- Wheels, Auxiliary tire for vehicle. G. A. Crane. No. 1,384,240; July 12; v. 288; p. 253.
- Wheels, Collapsible rim for. E. A. Jones. No. 1,374,574; Apr. 12; v. 285; p. 273.
- Wheels, Demountable rim for. R. L. Jenkins. No. 1,372,230; Mar. 22; v. 284; p. 639.
- Wheels, Demountable-rim lock for vehicle. R. M. Baird. No. 1,390,186; Sept. 6; v. 290; p. 126.
- Wheels, Detachable lug for tractor. I. G. Humphrey. No. 1,368,260; Feb. 15; v. 283; p. 374.
- Wheels, Detachable mud hook or spike for tractor. H. H. Helland. No. 1,368,629; Feb. 15; v. 283; p. 446.
- Wheels, Detachable tread for traction. H. A. Denison. No. 1,377,321; May 10; v. 286; p. 236.
- Wheels, &c., Device for removing gear. G. W. Schilling. No. 1,368,760; Feb. 15; v. 283; p. 472.
- Wheels, Device for dressing grinding. F. P. Rogers. No. 1,388,308; Aug. 23; v. 289; p. 646.
- Wheels, Device for securing demountable. A. J. de La Barre. No. 1,375,037; Apr. 19; v. 285; p. 424.
- Wheels, Elastic collar for polishing and grinding. G. O. Burlew. No. 1,386,988; Aug. 9; v. 289; p. 276.
- Wheels, Forming disk. G. H. Forsyth. No. 1,399,951; Dec. 13.
- Wheels, Forming steel. W. H. Walter. No. 1,397,566; Nov. 22.
- Wheels, Grouter device for tractor. F. Evans. No. 1,391,049; Sept. 20; v. 290; p. 454.
- Wheels, Hand warm or grip for steering. S. Duer. No. 1,385,527; July 26; v. 288; p. 675.
- Wheels, Hub for demountable. T. Fisher. No. 1,369,643; Feb. 22; v. 283; p. 683.
- Wheels, Hub structure of detachable wire-spoked. E. G. Budd. No. 1,388,022; Aug. 16; v. 289; p. 532.
- Wheels, Ice-lug for tractor. J. Schmadeke. No. 1,368,762; Feb. 15; v. 283; p. 472.
- Wheels in calculating-machines, Supporting means of the ten-pin, hundred-pin, &c., of the calculating. V. J. Odhner. No. 1,388,746; Aug. 23; v. 289; p. 732.
- Wheels, &c., Locking mechanism for numeral. A. H. Pitney. No. 1,382,224; June 21; v. 287; p. 472.
- Wheels, Lubricating means for trolley. A. McKinnon. No. 1,375,525; Apr. 19; v. 285; p. 517.
- Wheels, Making. G. S. Porter. No. 1,366,834; Jan. 25; v. 282; p. 670.
- Wheels, Making. G. S. Porter. No. 1,367,092; Feb. 1; v. 283; p. 42.
- Wheels, Making railway disk. F. Schaffer. No. 1,391,907; Sept. 27; v. 290; p. 700.
- Wheels, Manufacturing disk. A. L. Putnam. No. 1,395,357; Nov. 1.
- Wheels, Manufacture of type. G. S. Hiltz. No. 1,371,680; Mar. 15; v. 284; p. 477.
- Wheels, Manufacturing. E. K. Baker. No. 1,368,420; Feb. 15; v. 283; p. 405.
- Wheels, Metal cuff for automobile. G. F. McKenna. No. 1,368,952; Feb. 15; v. 283; p. 509.
- Wheels, Mud-lug for automobile. F. W. McGinn. No. 1,393,450; Oct. 11.
- Wheels, Non-skid plate for truck. E. D. Cass. No. 1,368,893; Feb. 15; v. 283; p. 498.
- Wheels, Non-slipping device for vehicle. E. N. Pagelsen. No. 1,395,345; Nov. 1.
- Wheels, Power-pulley for vehicle. E. C. Shaw. No. 1,372,836; Mar. 29; v. 284; p. 797.
- Wheels, Power transmission for. H. R. Holmes. No. 1,377,131; May 3; v. 286; p. 143.
- Wheels, Resilient hub for. T. M. Wright. No. 1,390,226; Sept. 6; v. 290; p. 134.
- Wheels, Reversible tread member for. C. A. Honsinger. No. 1,369,972; Mar. 1; v. 283; p. 42.
- Wheels, Rim construction for disk. L. B. Harvey. No. 1,376,808; May 3; v. 286; p. 81.
- Wheels, Rim for vehicle. C. G. Westerberg. No. 1,383,358; July 5; v. 288; p. 21.
- Wheels, Securing device for demountable. A. L. Putnam. No. 1,384,150; July 12; v. 288; p. 234.
- Wheels, shafts, &c., Driver for. A. J. E. Munters. No. 1,397,819; Nov. 22.
- Wheels, Traction attachment for vehicle. J. R. Bassett. No. 1,371,462; Mar. 15; v. 284; p. 435.
- Wheels, Traction device for. J. A. Bentz. No. 1,369,956; Mar. 1; v. 284; p. 38.
- Wheels, Traction-shoe for vehicle. F. Guasch. No. 1,377,679; May 10; v. 286; p. 304.
- Wheeled seat. F. Baynes. No. 1,369,216; Feb. 22; v. 283; p. 600.
- Wheelbarrow. W. Richman. No. 1,383,026; June 28; v. 287; p. 678.
- Wheelbarrow. W. V. Van Etten. No. 1,377,946; May 10; v. 286; p. 357.
- Wheelbarrow-handle. H. M. Caswell. No. 1,392,114; Sept. 27; v. 290; p. 743.
- Wheelbarrow reinforcement. H. J. Luschen. No. 1,375,921; Apr. 26; v. 285; p. 625.
- Whey, Extracting soluble albumen from. A. C. Weimar. No. 1,381,605; June 14; v. 287; p. 294.
- Whiffletree. C. H. Asbury. No. 1,386,673; Aug. 9; v. 289; p. 211.
- Whiffletree. L. A. McDaniel. No. 1,372,762; Mar. 29; v. 284; p. 782.
- Whisper-phone. W. Molloy. No. 1,376,719; May 3; v. 286; p. 64.
- Whistle. H. J. Carmody. No. 1,397,263; Nov. 15.
- Whistle. E. J. Schneider. No. 1,382,744; June 28; v. 287; p. 624.
- Whistle, Alarm. P. A. Wood. No. 1,365,959; Jan. 18; v. 282; p. 454.
- Whistle and top, Combined. F. J. Vierling and F. R. Bartholomew. No. 1,373,371; Mar. 29; v. 284; p. 903.
- Whistle-operating connection. J. E. Lamoine and C. W. O'Neal. No. 1,392,773; Oct. 4.
- Wick-carrier, Adjustable. M. Boileau. No. 1,390,873; Sept. 13; v. 290; p. 355.
- Wicks, Treating. J. Feeney. No. 1,379,857; May 31; v. 286; p. 918.
- Wild-oats separator. R. L. Owens. No. 1,400,233; Dec. 13.
- Wild-oats separator. F. W. Busch. No. 1,401,039; Dec. 20.
- Wild-pea separator. C. L. Palmer and J. R. Hollister. No. 1,368,746; Feb. 15; v. 283; p. 470.
- Winch. G. Feriani. No. 1,393,436; Oct. 11.
- Winches, Cable controlling and storing means for. W. Noble. No. 1,364,579; Jan. 4; v. 282; p. 102.
- Wind-deflector. G. Comrie. No. 1,385,485; July 26; v. 288; p. 667.
- Wind-deflector. G. Glaudel. No. 1,393,682; Oct. 11.
- Wind-deflector, Slide. H. and L. Benzer. No. 1,401,942; Dec. 27.



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- Wind-guard. M. W. Carroll, Jr. No. 1,389,935; Sept. 6; v. 290; p. 76.
- Wind instruments, Socket for. B. F. Winterhoff. No. 1,376,986; May 3; v. 286; p. 116.
- Wind-motor. F. B. Geisler. No. 1,383,461; July 5; v. 288; p. 42.
- Wind or water wheel. F. J. Barto. No. 1,364,681; Jan. 4; v. 282; p. 122.
- Wind-screen. F. E. Morriss. No. 1,393,239; Oct. 11.
- Wind-wheels. J. Bott. No. 1,379,439; May 24; v. 286; p. 765.
- Windmill. B. W. Boston. No. 1,397,031; Nov. 15.
- Windmill. H. V. Calkins. No. 1,364,982; Jan. 11; v. 282; p. 225.
- Windmill. H. M. Cryer. No. 1,368,024; Feb. 8; v. 283; p. 280.
- Windmill. J. J. Donnelly. No. 1,387,692; Aug. 16; v. 289; p. 467.
- Windmill. C. F. Erickson. No. 1,388,994; Aug. 30; v. 289; p. 836.
- Windmill. D. R. Holmes and N. H. Campbell. No. 1,374,659; Apr. 12; v. 285; p. 289.
- Windmill. D. R. Scholes. No. 1,395,601; Nov. 1.
- Windmill. W. R. Twiford. No. 1,384,787; July 19; v. 288; p. 447.
- Windmill. W. H. Winslett. No. 1,399,282; Dec. 6.
- Windmill-fan. H. E. Eggerth. No. 1,377,328; May 10; v. 286; p. 238.
- Windmill-gear and control mechanism. A. Carlson. No. 1,369,396; Feb. 22; v. 283; p. 634.
- Windmill-power engine. S. E. Martin. No. 1,394,104; Oct. 18.
- Windmill-wheel. E. C. Bozied. No. 1,367,766; Feb. 8; v. 283; p. 232.
- Windmills, Automatic control for. E. Schefer. No. 1,366,326; Jan. 18; v. 282; p. 525.
- Windmills, Controlling device for. A. Ege. No. 1,397,802; Nov. 22.
- Windmills, Speed-regulator for. A. G. H. Anderson. No. 1,397,713; Nov. 22.
- Windmills, Stroke-regulator for. A. B. Sabin. No. 1,378,621; May 17; v. 286; p. 537.
- Windshield. F. A. Dillingham. No. 1,383,191; June 28; v. 287; p. 709.
- Windshield. H. J. Earl. No. 1,400,479; Dec. 13.
- Windshield. F. Gingle. No. 1,369,741; Feb. 22; v. 283; p. 702.
- Windshield. R. L. Hardin. No. 1,389,549; Aug. 30; v. 289; p. 946.
- Windshield. H. Higgin. No. 1,371,483; Mar. 15; v. 284; p. 439.
- Windshield. J. S. Kern. No. 1,378,871; May 24; v. 286; p. 658.
- Windshield. A. L. Lambert and A. Bell. No. 1,389,145; Aug. 30; v. 289; p. 866.
- Windshield. J. A. Miller. No. 1,371,703; Mar. 15; v. 284; p. 482.
- Windshield. J. E. Parmelee. No. 1,366,483; Jan. 25; v. 282; p. 600.
- Windshield. C. B. Rose. No. 1,369,193; Feb. 22; v. 283; p. 595.
- Windshield. H. G. Smith. No. 1,373,840; Apr. 5; v. 285; p. 90.
- Windshield. A. M. Southard. No. 1,390,652; Sept. 13; v. 290; p. 812.
- Windshield. A. J. Stretch. No. 1,394,045; Oct. 18.
- Windshield attachment. A. F. Gillet. No. 1,381,629; June 14; v. 287; p. 299.
- Windshield attachment. G. G. Gross. No. 1,394,084; Oct. 18.
- Windshield attachment. F. Kamrowski. No. 1,379,104; May 24; v. 286; p. 702.
- Windshield attachment. F. M. Locher. No. 1,371,496; Mar. 15; v. 284; p. 442.
- Windshield attachment. F. W. Roberts. No. 1,372,552; Mar. 22; v. 284; p. 700.
- Windshield attachment or deflector for automobiles. W. L. Howe. No. 1,384,803; July 19; v. 288; p. 451.
- Windshield, Auxiliary. G. Glaudel. No. 1,386,565; Aug. 2; v. 289; p. 117.
- Windshield, Auxiliary. G. Glaudel. No. 1,393,681; Oct. 11.
- Windshield, Auxiliary. R. L. Greer. No. 1,382,284; June 21; v. 287; p. 483.
- Windshield, Auxiliary. C. D. Miller. No. 1,386,418; Aug. 2; v. 289; p. 89.
- Windshield, Auxiliary. A. Reed. No. 1,391,580; Sept. 20; v. 290; p. 562.
- Windshield-cleaner. A. Dell. No. 1,389,129; Aug. 30; v. 289; p. 863.
- Windshield-cleaner. J. Demand. No. 1,370,684; Mar. 8; v. 284; p. 222.
- Windshield-cleaner. W. M. Folberth. No. 1,365,391; Jan. 11; v. 282; p. 303.
- Windshield-cleaner. H. K. Frankowski and A. Hoffman. No. 1,399,107; Dec. 6.
- Windshield-cleaner. C. F. Green. No. 1,397,511; Nov. 22.
- Windshield-cleaner. J. T. Lewis. No. 1,382,205; June 21; v. 287; p. 467.
- Windshield-cleaner. B. I. Malouf. No. 1,392,190; Sept. 27; v. 290; p. 758.
- Windshield-cleaner. J. Pederson. No. 1,370,909; Mar. 8; v. 284; p. 264.
- Windshield-cleaner. J. Pederson. No. 1,370,910; Mar. 8; v. 284; p. 264.
- Windshield-cleaner. S. G. Skinner. No. 1,395,604; Nov. 1.
- Windshield-cleaner. J. J. Tracy. No. 1,370,168; Mar. 1; v. 284; p. 78.
- Windshield-cleaner. H. C. Tripp. No. 1,394,052; Oct. 18.
- Windshield-cleaner. H. C. Tripp. No. 1,394,053; Oct. 18.
- Windshield-cleaner. J. L. Webb. No. 1,379,232; May 24; v. 286; p. 726.
- Windshield-cleaner. A. W. Wessoleck. No. 1,375,878; Apr. 26; v. 285; p. 617.
- Windshield-cleaner, Actuating device for. W. M. Folberth. No. 1,387,598; Aug. 16; v. 289; p. 448.
- Windshield-cleaner, mirror, and sun-protector. M. Lampkin. No. 1,371,631; Mar. 15; v. 284; p. 468.
- Windshield-cleaning composition. F. H. Adler. No. 1,378,931; May 24; v. 286; p. 670.
- Windshield construction. E. G. Simpson. No. 1,392,880; Oct. 4.
- Windshield-cover. A. E. Canby. No. 1,398,714; Nov. 29.
- Windshield for vehicles and conveyances. W. de F. Crowell. No. 1,385,204; July 19; v. 288; p. 534.
- Windshield for vehicles, Auxiliary. T. B. Powell and C. S. McLean. No. 1,400,979; Dec. 20.
- Windshield-protector. J. Bedard. No. 1,392,474; Oct. 4.
- Windshield, Rear-seat. V. E. Crosby. No. 1,386,600; Aug. 9; v. 289; p. 197.
- Windshield, Rolling. W. H. Gerhard. No. 1,380,894; June 7; v. 287; p. 109.
- Windshield-shade. J. Ackerland. No. 1,378,509; May 17; v. 286; p. 516.
- Windshield-shade. J. Ackerland. No. 1,378,510; May 17; v. 286; p. 516.
- Windshield-shade. W. H. Malott. No. 1,375,164; Apr. 19; v. 285; p. 449.
- Windshield-shade. W. R. Marsh. No. 1,383,323; July 5; v. 288; p. 13.
- Windshield-shade. B. H. Pugh. No. 1,367,202; Feb. 1; v. 283; p. 64.
- Windshield-shade. H. G. Whitmore and C. T. Glasser. No. 1,398,661; Nov. 29.
- Windshield-spotlight support. L. J. Antoine. No. 1,381,267; June 14; v. 287; p. 232.
- Windshield-support, Adjustable. E. W. Goodwin. No. 1,381,116; June 14; v. 287; p. 205.
- Windshield, Vehicle-. W. Rosenblatt and J. J. Simon. No. 1,397,234; Nov. 15.
- Windshield-visor. A. F. Winberg. No. 1,394,595; Oct. 25.
- Windshield-wing. B. J. Hubbard. No. 1,380,909; June 7; v. 287; p. 112.
- Windshield-wiper. J. T. Allmand. No. 1,388,911; Aug. 30; v. 289; p. 819.
- Windshield-wiper. A. F. Gillet. No. 1,371,363; Mar. 15; v. 284; p. 415.
- Windshield wiper, washer, and cleaner. H. Klatt. No. 1,369,817; Mar. 1; v. 284; p. 13.
- Windshield-wiper for vehicles. J. W. Cain. No. 1,378,090; May 17; v. 286; p. 436.
- Windshield-wipers, U-clip for. V. H. Christen. No. 1,369,008; Feb. 22; v. 283; p. 559.
- Windshields, Clear-vision device for. W. M. Christopher. No. 1,396,729; Nov. 15.
- Windshields, Curtain attachment for. L. K. Mulford. No. 1,400,567; Dec. 20.
- Windshields, Gutter for. J. Person. No. 1,375,104; Apr. 19; v. 285; p. 437.
- Winder. H. D. Colman. No. 1,366,447; Jan. 25; v. 282; p. 593.
- Winder-shaft. J. H. Baker. No. 1,397,310; Nov. 15.
- Winding and reeling machines, Tension device for. G. L. Rice. No. 1,385,925; July 26; v. 288; p. 755.
- Winding and unwinding apparatus. W. P. Voth. No. 1,398,984; Dec. 6.
- Winding apparatus. C. A. Brink. No. 1,381,186; June 28; v. 287; p. 708.
- Winding-base. H. Winslow. No. 1,367,934; Feb. 8; v. 283; p. 264.
- Winding device. H. P. Lee. No. 1,396,444; Nov. 8.
- Winding device. W. C. Starkey. No. 1,372,046; Mar. 22; v. 284; p. 603.
- Winding devices, Take-up mechanism. J. Clayton. No. 1,398,680; Nov. 29.
- Winding-engine. S. S. McIntyre. No. 1,381,209; June 14; v. 287; p. 222.
- Winding implement. F. E. Townsend. No. 1,397,022; Nov. 15.
- Winding-machine. J. C. Anderson. No. 1,368,536; Feb. 15; v. 283; p. 429.
- Winding-machine. G. F. Atwood. No. 1,381,899; June 21; v. 287; p. 411.
- Winding-machine. F. W. Cotterman. No. 1,377,808; May 10; v. 286; p. 330.
- Winding-machine. J. V. Cuniff. No. 1,375,568; Apr. 19; v. 285; p. 525.
- Winding-machine. F. Diehl. No. 1,370,744; Mar. 8; v. 284; p. 233.
- Winding-machine. W. Grunow. No. 1,371,367; Mar. 15; v. 284; p. 416.
- Winding-machine. C. W. Hubbard. No. 1,394,732; Oct. 25.
- Winding-machine. E. F. Hulbert. No. 1,380,105; May 31; v. 286; p. 965.
- Winding-machine. W. E. Riecken. No. 1,381,933; June 21; v. 287; p. 417.



- Winding machine, Roll. C. Knoth. No. 1,394,095; Oct. 18.
- Winding-machine, Semiautomatic. S. Throusen. No. 1,367,999; Feb. 8; v. 283; p. 276.
- Winding machine, Spiral-tube. A. King. No. 1,382,984; June 28; v. 287; p. 670.
- Winding-machines, Bunch-builder for. E. S. Gary, Jr. No. 1,378,171; May 17; v. 286; p. 452.
- Winding-machines, Guide for. J. A. Olbon. No. 1,381,492; June 14; v. 287; p. 273.
- Winding-machines, Stop-motion for. O. A. Conte. No. 1,364,354; Jan. 4; v. 282; p. 60.
- Winding mechanism. R. P. Ashbaugh and S. C. Cawthon. No. 1,376,914; May 3; v. 286; p. 102.
- Winding or hoisting engine. C. Evers. No. 1,383,704; July 5; v. 288; p. 93.
- Winding warps and other purposes, Spool for. G. Hutchinson. No. 1,378,412; May 17; v. 286; p. 497.
- Windings, Apparatus for making. C. W. Francis. No. 1,379,755; May 31; v. 286; p. 899.
- Windings, Making. C. W. Francis. No. 1,396,033; Nov. 8.
- Windlass. D. B. Conclin. No. 1,379,084; May 24; v. 286; p. 698.
- Windless clamp for sucker-rods and tube-hoists. W. W. C. Spencer. No. 1,397,937; Nov. 22.
- Windlass, Portable. E. Eck. No. 1,386,693; Aug. 9; v. 289; p. 216.
- Windlass, Portable. A. A. Keller. No. 1,379,990; May 31; v. 286; p. 943.
- Windlass, Portable hand-. T. V. Nutter. No. 1,386,582; Aug. 2; v. 289; p. 120.
- Window. W. H. Barriere. No. 1,397,671; Nov. 22.
- Window. H. Ferr. No. 1,381,070; June 7; v. 287; p. 144.
- Window. J. Greenburg. No. 1,385,539; July 26; v. 288; p. 678.
- Window. E. Gusy. No. 1,370,890; Mar. 8; v. 284; p. 260.
- Window. P. Horslev. No. 1,378,828; May 17; v. 286; p. 577.
- Window. L. Lane. No. 1,392,183; Sept. 27; v. 290; p. 757.
- Window. A. MacKinnon. No. 1,379,460; May 24; v. 286; p. 769.
- Window. A. P. Schoellerman. No. 1,399,323; Dec. 6.
- Window. W. S. Shields. No. 1,370,848; Mar. 8; v. 284; p. 253.
- Window. F. S. Stafford. No. 1,378,292; May 17; v. 286; p. 474.
- Window. J. V. Sugg. No. 1,397,117; Nov. 15.
- Window. C. B. Wing. No. 1,395,074; Oct. 25.
- Window. F. A. Winslow. (Reissue.) No. 15,146; July 5; v. 288; p. 162.
- Window adjuster, Casement-. W. Cox. No. 1,398,629; Nov. 29.
- Window and door lock. M. Subber. No. 1,389,709; Sept. 6; v. 290; p. 30.
- Window and door securer. C. A. Topp. No. 1,392,467; Oct. 4.
- Window and screen lock, Automatic safety. J. D. Piltz. No. 1,389,457; Aug. 30; v. 289; p. 928.
- Window and transom, Combined. G. Sincak. No. 1,375,186; Apr. 19; v. 285; p. 453.
- Window antirattler. E. H. Jacob. No. 1,374,206; Apr. 12; v. 285; p. 201.
- Window attachment. W. S. Borland. No. 1,373,709; Apr. 5; v. 285; p. 63.
- Window attachment. H. A. Hobelmann. No. 1,401,080; Dec. 20.
- Window attachment. O. J. Neff. No. 1,380,237; May 31; v. 286; p. 990.
- Window-bracket. J. P. Arntz. No. 1,373,397; Apr. 5; v. 285; p. 3.
- Window, Casement-. L. Lane. No. 1,370,325; Mar. 1; v. 284; p. 108.
- Window-catch. M. Dahlgren. No. 1,394,253; Oct. 18.
- Window-clamp. H. W. Struebing. No. 1,387,564; Aug. 16; v. 289; p. 441.
- Window-cleaner. L. S. Kracke. No. 1,378,243; May 17; v. 286; p. 465.
- Window-cleaner. M. Lomano. No. 1,370,463; Mar. 1; v. 284; p. 134.
- Window-cleaner. S. Yuasa. No. 1,382,875; June 28; v. 287; p. 649.
- Window-cleaning device. G. T. Bloomingdale. No. 1,385,003; July 26; v. 288; p. 691.
- Window-cleaning device. A. Fernandez. No. 1,376,195; Apr. 26; v. 285; p. 677.
- Window-cleaning device. S. Kahn. No. 1,395,280; Nov. 1.
- Window-cleaning device. J. J. Peterson. No. 1,381,884; June 14; v. 287; p. 349.
- Window-cleaning device. J. J. Peterson. No. 1,383,018; June 28; v. 287; p. 677.
- Window-closing device, Automatic. R. G. Cator. No. 1,396,252; Nov. 8.
- Window-cleaning mechanism. L. L. Korach. No. 1,382,000; June 21; v. 287; p. 429.
- Window, Collapsible. W. P. Eggers. No. 1,376,193; Apr. 26; v. 285; p. 677.
- Window construction. G. S. Benjamin. No. 1,384,935; July 19; v. 288; p. 477.
- Window construction. D. Bourque. No. 1,392,243; Sept. 27; v. 290; p. 769.
- Window construction. J. H. and J. E. Crook. No. 1,396,359; Nov. 8.
- Window construction. F. Dutcher. No. 1,387,479; Aug. 16; v. 289; p. 424.
- Window construction. A. V. Horner. No. 1,367,970; Feb. 8; v. 283; p. 270.
- Window construction. J. H. Horner. No. 1,395,962; Nov. 1.
- Window construction. J. Sylvan. No. 1,379,061; May 24; v. 286; p. 694.
- Window-counterbalance. E. G. Erickson. No. 1,373,955; Apr. 5; v. 285; p. 113.
- Window-cupboard. C. A. Geib. No. 1,387,382; Aug. 9; v. 289; p. 354.
- Window, door, or porch screen. D. R. Cooley. No. 1,388,801; Aug. 23; v. 289; p. 743.
- Window-envelop. W. E. Swift. No. 1,388,837; Aug. 23; v. 289; p. 749.
- Window-fastener. J. K. Bleackacek. No. 1,375,769; Apr. 26; v. 285; p. 595.
- Window-fastener. E. M. Brooks. No. 1,401,941; Dec. 27.
- Window-fastener. J. L. Bush. No. 1,388,237; Aug. 23; v. 289; p. 631.
- Window-fastener. F. H. Hart. No. 1,370,109; Mar. 1; v. 284; p. 67.
- Window-fastener. W. Miller. No. 1,387,860; Aug. 16; v. 289; p. 501.
- Window-fastener. F. T. Schneider. No. 1,399,277; Dec. 6.
- Window-fastener. E. Songey. No. 1,376,122; Apr. 26; v. 285; p. 664.
- Window-fastener or door-check. R. Benziger and F. Gass. No. 1,366,689; Jan. 25; v. 282; p. 641.
- Window-fixture. A. Hellmuth. No. 1,388,643; Aug. 23; v. 289; p. 711.
- Window-fixture. M. Wenzowitz. No. 1,379,497; May 24; v. 286; p. 776.
- Window-fixture. L. E. Wood. No. 1,391,599; Sept. 20; v. 290; p. 565.
- Window for vehicle-curtains. R. O. Taylor. No. 1,380,606; June 7; v. 287; p. 53.
- Window-frame. S. Abramson. No. 1,391,602; Sept. 20; v. 290; p. 566.
- Window-frame. E. Cresse. No. 1,384,516; July 12; v. 288; p. 310.
- Window-frame. L. Elenga. No. 1,382,348; June 21; v. 287; p. 495.
- Window-frame. S. H. Reid. No. 1,366,678; Jan. 25; v. 282; p. 639.
- Window-frame. A. L. Hutchinson. No. 1,389,136; Aug. 30; v. 289; p. 864.
- Window-frame. B. Schechter. No. 1,366,679; Jan. 25; v. 282; p. 639.
- Window frame and screen. G. M. Kaempffe. No. 1,370,214; Mar. 1; v. 284; p. 87.
- Window-frame and chute structure. W. H. Taylor. No. 1,390,178; Sept. 6; v. 290; p. 125.
- Window frame and sash structure. G. A. Martin. No. 1,397,221; Nov. 15.
- Window-frames, Air-deflecting device for. F. W. Lancaster. No. 1,376,210; Apr. 26; v. 285; p. 680.
- Window-glass channel. E. W. M. Bailey. No. 1,374,629; Apr. 12; v. 285; p. 283.
- Window-glass silencer. T. J. Martin. No. 1,380,996; June 7; v. 287; p. 129.
- Window glass and screen holder, Combined. C. H. Hargadine. No. 1,372,687; Mar. 29; v. 284; p. 767.
- Window-guard. H. M. Aarons. No. 1,387,958; Aug. 16; v. 289; p. 519.
- Window-guard. J. E. Baker. No. 1,393,192; Oct. 11.
- Window-guard. B. C. Petterson. No. 1,378,378; May 17; v. 286; p. 490.
- Window-guide. P. Rissman. No. 1,378,558; May 17; v. 286; p. 525.
- Window heater and drier. A. A. Fagen. No. 1,370,955; Mar. 8; v. 284; p. 273.
- Window-lock. C. E. Barbier. No. 1,396,496; Nov. 8.
- Window-lock. A. E. Clay. No. 1,395,556; Nov. 1.
- Window-lock. R. E. Johnson. No. 1,392,335; Oct. 4.
- Window-lock. C. Price. No. 1,387,903; Aug. 16; v. 289; p. 509.
- Window-lock. J. A. Rouch and T. H. Hastie. No. 1,373,977; Apr. 5; v. 285; p. 117.
- Window-lock. T. A. Smith. No. 1,374,773; Apr. 12; v. 285; p. 310.
- Window-lock. G. W. Stein. No. 1,380,263; May 31; v. 286; p. 995.
- Window-lock. I. Wiernikowski. No. 1,399,177; Dec. 6.
- Window-lock. W. Zych. No. 1,386,671; Aug. 9; v. 289; p. 211.
- Window-locking device. E. A. Rosenberg. No. 1,389,072; Aug. 30; v. 289; p. 852.
- Window, Non-freezable. H. B. Valade. No. 1,394,237; Oct. 18.
- Window-opener and closer, Storm-. E. C. Sport. No. 1,395,303; Nov. 1.
- Window-openings, Metal facing for inside of. G. A. Knapp. No. 1,393,792; Oct. 18.
- Window-operating mechanism. C. Gebhard. No. 1,387,432; Aug. 9; v. 289; p. 364.
- Window-operating mechanism. L. M. Phelps. No. 1,397,112; Nov. 15.
- Window-operators, Power device for. J. J. Parker. No. 1,395,514; Nov. 1.
- Window-operators, Power for. J. J. Parker. No. 1,395,515; Nov. 1.



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- Window or key lock. B. Leichter. No. 1,393,628; Oct. 11.  
 Window provision-box. M. Rachlin. No. 1,401,816; Dec. 27.  
 Window-rack. E. F. Chaffee. No. 1,370,948; Mar. 8; v. 284; p. 272.  
 Window-raising device. J. A. Kulier. No. 1,372,171; Mar. 22; v. 284; p. 627.  
 Window-regulator. L. T. Bulley. No. 1,365,370; Jan. 11; v. 282; p. 299.  
 Window-regulator. E. E. Heintz. No. 1,398,693; Nov. 29.  
 Window-regulator. J. S. Mesnooh. No. 1,380,002; May 31; v. 286; p. 945.  
 Window-runway. J. F. Dodge and G. E. Goddard. No. 1,387,366; Aug. 9; v. 289; p. 351.  
 Window-screen construction. W. H. Ray. No. 1,399,878; Dec. 13.  
 Window-sash gearing and lock. W. H. Peaden. No. 1,370,356; Mar. 1; v. 284; p. 114.  
 Window-sash holder. E. H. Lutz. No. 1,367,749; Feb. 8; v. 283; p. 229.  
 Window-sash holder. W. Mandel. No. 1,381,422; June 14; v. 287; p. 261.  
 Window-sash regulator and operator. L. J. Gouin. No. 1,388,252; Aug. 23; v. 289; p. 634.  
 Window-sashes, Weatherproofing means for. E. A. Nix. No. 1,391,003; Sept. 20; v. 290; p. 444.  
 Window-screen. L. Guggenberger. No. 1,395,492; Nov. 1.  
 Window-screen. W. J. Hewitt. No. 1,398,017; Nov. 22.  
 Window-screen. B. W. Jones. No. 1,370,500; Mar. 1; v. 284; p. 141.  
 Window-screen. B. J. Marriott. No. 1,393,560; Oct. 11.  
 Window-screen. C. Rochon. No. 1,392,706; Oct. 4.  
 Window-screen. R. Schulz. No. 1,387,947; Aug. 16; v. 289; p. 518.  
 Window-screen. L. Simon. No. 1,386,033; Aug. 2; v. 289; p. 15.  
 Window-screens and making same, Frame for. F. W. Van Fleet. No. 1,385,958; July 26; v. 288; p. 762.  
 Window-seat, Portable folding outside. G. L. Kimmerle and D. S. Landstra. No. 1,365,695; Jan. 18; v. 282; p. 401.  
 Window-shade bracket. R. C. Cranford. No. 1,391,528; Sept. 20; v. 290; p. 552.  
 Window-sill. F. E. Lawson. No. 1,368,444; Feb. 15; v. 283; p. 410.  
 Window, Sliding. F. J. Garnier. No. 1,386,859; Aug. 9; v. 289; p. 250.  
 Window-stop. E. E. Crawford. No. 1,381,083; June 7; v. 287; p. 146.  
 Window-stops, Securing means for. R. L. Christenson. No. 1,377,748; May 10; v. 286; p. 318.  
 Window structure. J. S. Berry. No. 1,391,237; Sept. 20; v. 290; p. 492.  
 Window-supporting device. E. G. Simpson. No. 1,381,676; June 14; v. 287; p. 308.  
 Window, Ventilating curtain-. V. W. Peterson. No. 1,388,370; Aug. 23; v. 289; p. 659.  
 Window ventilating-stop. B. W. Dennis. No. 1,395,910; Nov. 1.  
 Window-ventilator. C. M. Buhrman. No. 1,390,878; Sept. 13; v. 290; p. 356.  
 Window-ventilator. E. E. Hunt. No. 1,383,811; July 5; v. 288; p. 115.  
 Window-ventilator. M. J. Leahy. No. 1,388,050; Aug. 16; v. 289; p. 537.  
 Window-ventilator. J. Lynn. No. 1,393,556; Oct. 11.  
 Window-ventilator. S. Meyer. No. 1,399,787; Dec. 13.  
 Window-ventilator. N. B. Nielsen and E. G. Brant. No. 1,399,135; Dec. 6.  
 Window-ventilator. C. S. Woods. No. 1,376,184; Apr. 26; v. 285; p. 675.  
 Window-washer's harness. G. F. Minnis. No. 1,366,920; Feb. 1; v. 283; p. 8.  
 Window-washer's harness, Attaching-clip for. G. F. Minnis. No. 1,373,013; Mar. 29; v. 284; p. 833.  
 Window-wedge. B. F. Dickens. No. 1,397,859; Nov. 22.  
 Window-wall construction. J. T. Allmand. No. 1,383,052; June 28; v. 287; p. 683.  
 Windows and doors, Spring-roller attachment for. A. A. Burgner. No. 1,384,596; July 12; v. 288; p. 327.  
 Windows and the Hke, Metallic frame for. A. Motteau. No. 1,367,418; Feb. 1; v. 283; p. 106.  
 Windows, Antirattling device for automobile-. M. D. Meserole. No. 1,369,689; Feb. 22; v. 283; p. 692.  
 Windows, Counterbalance mechanism for vehicle-. J. D. Lawrence. No. 1,397,256; Nov. 15.  
 Windows, Curtain-guard for. A. H. Reimann. No. 1,389,843; Sept. 6; v. 290; p. 57.  
 Windows, Fastener for adjustable. J. Stoch. No. 1,392,606; Oct. 4.  
 Windows, Framing and attaching means for. C. E. Taylor. No. 1,372,048; Mar. 22; v. 284; p. 604.  
 Windows, Guide and position-grip for sliding vehicle-. A. E. Lattimore. No. 1,384,904; July 19; v. 288; p. 471.  
 Windows, Hanger for storm-. C. A. Jones. No. 1,369,246; Feb. 22; v. 283; p. 606.  
 Windows, Hinge for casement. V. S. Lundell and G. E. Eckberg. No. 1,383,647; July 5; v. 288; p. 80.  
 Windows or the like, Protection-strip for glass. E. U. Kimbark. No. 1,375,914; Apr. 26; v. 285; p. 623.  
 Windows, Protecting device for bank-. T. H. and E. P. Robbins. No. 1,382,803; June 28; v. 287; p. 636.  
 Windows, Safety-lock for. P. Page. No. 1,387,302; Aug. 9; v. 289; p. 337.  
 Windows, Ventilating-screen for. F. A. Ferguson. No. 1,372,128; Mar. 22; v. 284; p. 619.  
 Wire and cable puller. V. M. McDonald. No. 1,378,702; May 17; v. 286; p. 553.  
 Wire and drill gage. J. Brewer. No. 1,389,486; Aug. 30; v. 289; p. 934.  
 Wire and securing the same, Articles secured to. F. E. and C. G. Wood. No. 1,397,848; Nov. 22.  
 Wire-basket support. G. A. Lamp. No. 1,386,878; Aug. 9; v. 289; p. 253.  
 Wire-bending apparatus. J. D. Smith. No. 1,392,713; Oct. 4.  
 Wire-bending machine. J. Darling. No. 1,388,409; Aug. 23; v. 289; p. 667.  
 Wire-bending machine. A. G. Hagstrom. No. 1,377,150; May 3; v. 286; p. 147.  
 Wire-bending tool. J. McVay. No. 1,380,323; May 31; v. 286; p. 1006.  
 Wire-bound box. C. H. Bombardie. No. 1,364,850; Jan. 4; v. 282; p. 154.  
 Wire-bound box. M. E. S. Secker. No. 1,382,323; June 21; v. 287; p. 489.  
 Wire-bound box. E. A. Srill. No. 1,398,606; Nov. 29.  
 Wire-bound package. J. Caylor. No. 1,382,473; June 21; v. 287; p. 519.  
 Wire box-strapping, Device for tightening and securing round-. L. S. Gans. No. 1,400,046; Dec. 13.  
 Wire-cable members, Uniting two parallel. W. H. Brown. No. 1,368,480; Feb. 15; v. 283; p. 418.  
 Wire chain. F. W. Smith. No. 1,379,131; May 24; v. 286; p. 708.  
 Wire-clamp. W. J. Carley. No. 1,382,620; June 28; v. 287; p. 600.  
 Wire-clamp. S. S. Matthes. No. 1,367,619; Feb. 8; v. 283; p. 203.  
 Wires, Clip for bead-. T. Midgley. No. 1,368,642; Feb. 15; v. 283; p. 449.  
 Wire-colling machine. E. Turgeon. No. 1,382,258; June 21; v. 287; p. 477.  
 Wire-coil-making machine. J. G. Zwicker. No. 1,365,615; Jan. 11; v. 282; p. 232.  
 Wire-coiling apparatus. M. Vogelsong. No. 1,394,378; Oct. 18.  
 Wire-coiling mechanism. E. F. Hathaway and C. Lea. No. 1,367,814; Feb. 8; v. 283; p. 241.  
 Wire-connecting device. A. Ascherl. No. 1,382,048; June 21; v. 287; p. 438.  
 Wire-connection. G. Quaglia and A. Capello. No. 1,381,741; June 14; v. 287; p. 321.  
 Wire connection, Ground-. C. J. Barrow. No. 1,389,929; Sept. 6; v. 290; p. 75.  
 Wire-covering machine. J. A. Heany. No. 1,375,655; Apr. 19; v. 285; p. 542.  
 Wire-covering machine. D. Noble. No. 1,367,709; Feb. 8; v. 283; p. 221.  
 Wire-cutter. F. K. Ratkovic. No. 1,373,762; Apr. 5; v. 285; p. 74.  
 Wire-drawing machine. T. Gore. No. 1,379,181; May 24; v. 286; p. 716.  
 Wire-drawing machine. H. W. Hodgson. No. 1,390,714; Sept. 13; v. 290; p. 323.  
 Wire-drawing machine. J. W. Lauren. No. 1,377,206; May 10; v. 286; p. 213.  
 Wire-drawing machine. W. D. Pierson. No. 1,387,169; Aug. 9; v. 289; p. 311.  
 Wire-drawing machines, Apparatus for setting the dies of. R. D. Connor and R. P. Slinger. No. 1,367,686; Feb. 8; v. 283; p. 216.  
 Wire-drawing machinery, Continuous. M. Howarth. No. 1,390,132; Sept. 6; v. 290; p. 116.  
 Wire-drawing or similar machines, Stop device for. W. D. Pierson. No. 1,380,412; June 7; v. 287; p. 17.  
 Wire-embedder. N. W. Matthews. No. 1,366,674; Jan. 25; v. 282; p. 638.  
 Wire fabric. W. E. Baker. No. 1,375,810; Apr. 26; v. 285; p. 603.  
 Wire fabric. K. I. Diethelm. No. 1,385,434; July 26; v. 288; p. 656.  
 Wire fabric. C. Ehrlich. No. 1,384,748; July 19; v. 288; p. 439.  
 Wire fabric. W. J. Pine. No. 1,372,309; Mar. 22; v. 284; p. 654.  
 Wire fabric. W. J. Pine. No. 1,372,310; Mar. 22; v. 284; p. 654.  
 Wire fabric. W. J. Pine. No. 1,376,037; Apr. 26; v. 285; p. 647.  
 Wire-fence machine. A. G. Johnson. No. 1,390,293; Sept. 13; v. 290; p. 239.  
 Wire-fence stretcher. J. F. Ball. No. 1,387,338; Aug. 9; v. 289; p. 345.  
 Wire-fence stretcher. W. N. Harsen. No. 1,371,026; Mar. 8; v. 284; p. 287.  
 Wire-fence tool. P. J. Hindmarsh. No. 1,367,516; Feb. 1; v. 283; p. 126.  
 Wire form. H. Koch. No. 1,370,822; Mar. 8; v. 284; p. 249.  
 Wire-forming machine. M. Olson. No. 1,382,379; June 21; v. 287; p. 501.



- Wire-gauze fabric, Method of and means for perforating. J. A. S. Becker. No. 1,368,233; Feb. 15; v. 283; p. 369.
- Wire-glass, Machine for and method of making corrugated. A. Shuman. No. 1,397,149; Nov. 15.
- Wire-grooving machine. P. F. Butterfield. No. 1,386,156; Aug. 2; v. 289; p. 39.
- Wire hair-frame. R. J. Duffee. No. 1,371,991; Mar. 15; v. 284; p. 536.
- Wire-loop-twisting machine. L. E. Parker. No. 1,385,582; July 26; v. 288; p. 687.
- Wire, Machine for coiling. S. P. Smurr. No. 1,382,251; June 21; v. 287; p. 476.
- Wire, Machine for spirally threading or grooving. J. B. Davies. No. 1,394,716; Oct. 25.
- Wire, Machine for straightening. M. M. Sørensen. No. 1,383,676; July 5; v. 288; p. 66.
- Wire mattress fabric. O. J. Gasau. No. 1,373,233; Mar. 29; v. 284; p. 877.
- Wire mattress fabric. J. Libow. No. 1,394,848; Oct. 25.
- Wire-mesh fabricated materials, Wire-inserting mechanism for. J. D. Smith. No. 1,392,714; Oct. 4.
- Wire, Method and apparatus for drawing. R. D. Conner. (Reissue.) No. 15,205; Oct. 11.
- Wire netting, Apparatus for the manufacture of. F. and F. Riviere. No. 1,401,557; Dec. 27.
- Wire, Nail-staple for barbed. G. Washington. No. 1,389,540; Aug. 30; v. 289; p. 945.
- Wire or cable end connector. J. F. Haworth. No. 1,380,800; June 7; v. 287; p. 91.
- Wire or other rope, Cargo-net of. W. F. Goodyear. No. 1,367,249; Feb. 1; v. 283; p. 73.
- Wire-reel. E. L. Croswhite. No. 1,385,522; July 26; v. 288; p. 674.
- Wire-reel. E. L. Croswhite. No. 1,399,934; Dec. 13.
- Wire-reel. C. K. Warner. No. 1,394,382; Oct. 18.
- Wire-reel, Collapsible. H. A. McIlwain. No. 1,365,710; Jan. 18; v. 282; p. 404.
- Wire, Reel for barbed. E. Nelson. No. 1,368,648; Feb. 15; v. 283; p. 450.
- Wire rolling and cutting device. A. Sherpitis. No. 1,367,282; Feb. 1; v. 283; p. 79.
- Wire rope. J. N. Bellwald. No. 1,397,718; Nov. 22.
- Wire rope. R. D. Green. No. 1,382,723; June 28; v. 287; p. 621.
- Wire rope. F. S. Phelps. No. 1,373,632; Apr. 5; v. 285; p. 49.
- Wire-rope choker-sling. J. A. Buckley and J. Nadeau. No. 1,391,457; Sept. 20; v. 290; p. 537.
- Wire-rope machine. A. E. Anderson. No. 1,401,122; Dec. 27.
- Wire-rope, Machine for making. A. E. Anderson. No. 1,378,932; May 24; v. 286; p. 670.
- Wire-rope machines, Twister-head for. A. E. Anderson. No. 1,365,442; Jan. 11; v. 282; p. 315.
- Wire-rope socket. D. W. Snow. No. 1,390,830; Sept. 13; v. 290; p. 347.
- Wire-screen-stretching device. F. A. Stickle. No. 1,395,613; Nov. 1.
- Wire splice and stretcher. C. E. Hatfield. No. 1,386,109; Aug. 2; v. 289; p. 29.
- Wire-splicer. J. O. Mulligan. No. 1,391,137; Sept. 20; v. 290; p. 472.
- Wire-spoke connection. J. H. Graham. (Reissue.) No. 15,109; May 24; v. 286; p. 796.
- Wire-spoke wheel. L. S. Weil. No. 1,375,267; Apr. 19; v. 285; p. 468.
- Wire-spoked wheel. E. G. Budd. No. 1,388,021; Aug. 16; v. 289; p. 531.
- Wire-spoked wheel, Detachable. W. H. Heales. No. 1,393,441; Oct. 11.
- Wire-stitching machine. A. M. Moore. No. 1,380,733; June 7; v. 287; p. 78.
- Wire-stitching machine. J. W. Nasmith. No. 1,371,388; Mar. 15; v. 284; p. 420.
- Wire stitching or stapling machines, Work-supporting means for. D. A. Flavell. No. 1,396,950; Nov. 15.
- Wire-stretcher. M. E. Buck. No. 1,396,502; Nov. 8.
- Wire-stretcher. L. F. Edwards. No. 1,374,838; Apr. 12; v. 285; p. 323.
- Wire-stretcher. A. Faist. No. 1,367,129; Feb. 1; v. 283; p. 49.
- Wire-stretcher. F. Frank. No. 1,387,374; Aug. 9; v. 289; p. 352.
- Wire-stretcher. H. E. Glover. No. 1,372,134; Mar. 22; v. 284; p. 620.
- Wire-stretcher. B. J. Greer. No. 1,389,045; Aug. 30; v. 289; p. 846.
- Wire-stretcher. H. Gutsche. No. 1,371,163; Mar. 8; v. 284; p. 312.
- Wire-stretcher. J. Niemela. No. 1,397,878; Nov. 22.
- Wire-stretcher. D. J. O'Connor, C. A. Nelson, and C. Nahabed. No. 1,400,093; Dec. 13.
- Wire-stretcher. J. H. Ryals. No. 1,401,739; Dec. 27.
- Wire-stretcher. A. L. Sanderson. No. 1,396,062; Nov. 8.
- Wire-stretcher. C. L. Stark. No. 1,373,270; Mar. 29; v. 284; p. 884.
- Wire-stretcher. W. L. Tompkins. No. 1,364,530; Jan. 4; v. 282; p. 94.
- Wire stretcher and splicer combined. J. M. Roberts. No. 1,384,853; July 19; v. 288; p. 461.
- Wire stretcher, Bundle-tying. A. J. Gerrard. No. 1,372,684; Mar. 29; v. 284; p. 767.
- Wire-stretcher clamp. J. G. Kerr. No. 1,373,078; Mar. 29; v. 284; p. 845.
- Wire stretching and twisting device. M. Mitchell. No. 1,372,531; Mar. 22; v. 284; p. 696.
- Wire stretching and twisting machine, Automatic. A. J. Gerrard and P. Wright. No. 1,391,826; Sept. 27; v. 290; p. 684.
- Wire-stretching apparatus. L. A. and L. R. Riddle. No. 1,392,079; Sept. 27; v. 290; p. 736.
- Wire support, Bond-. E. A. Everett. No. 1,386,854; Aug. 9; v. 289; p. 249.
- Wire-support. S. S. Matthes. No. 1,367,618; Feb. 8; v. 283; p. 203.
- Wire-ties, Tool for tying. A. M. Bates. No. 1,365,649; Jan. 18; v. 282; p. 392.
- Wire tightener and splicer. H. H. Schaefer. No. 1,400,995; Dec. 20.
- Wire-terminal. E. Schwartz. No. 1,385,928; July 26; v. 288; p. 756.
- Wire transmission lines, Locating faulty suspension-insulators on live. T. F. Johnson, Jr. No. 1,366,078; Jan. 18; v. 282; p. 477.
- Wire trays, Supporting-leg for superposing. F. M. Snyder. No. 1,396,148; Nov. 8.
- Wire-twister. J. W. Urie. No. 1,377,373; May 10; v. 286; p. 247.
- Wire twisting and bending machine. J. A. Butler. No. 1,400,724; Dec. 20.
- Wire-twisting chuck. G. B. Smith. No. 1,367,632; Feb. 8; v. 283; p. 206.
- Wire-twisting device. H. Anderson. No. 1,396,013; Nov. 8.
- Wire-tying machine. P. Wright. No. 1,389,413; Aug. 30; v. 289; p. 919.
- Wire-tying machine, Portable. W. M. Boenning. No. 1,391,820; Sept. 27; v. 290; p. 683.
- Wire-tying machine, Hand-operated. P. Wright. No. 1,401,025; Dec. 20.
- Wire wheels, Apparatus for assembling. L. Fine. No. 1,398,227; Nov. 29.
- Wire wheels, Shaping and truing. H. A. House, Jr. No. 1,399,770; Dec. 13.
- Wires and the like, Gripping device for. G. V. Twiss. No. 1,365,357; Jan. 11; v. 282; p. 296.
- Wirebound package. J. Caylor. No. 1,385,813; July 26; v. 288; p. 734.
- Wirebound box. G. C. Babcock. No. 1,371,208; Mar. 8; v. 284; p. 321.
- Wiring-conduit cap. F. I. Johnson. No. 1,382,510; June 21; v. 287; p. 526.
- Wires, Connecting device for. J. W. Fuller. No. 1,393,107; Oct. 11.
- Wires, Connector for electric. E. H. Kruse. No. 1,386,634; Aug. 9; v. 289; p. 203.
- Wireless apparatus. H. H. Hyder. No. 1,379,589; May 24; v. 286; p. 793.
- Wireless control device. J. Lindgren. No. 1,380,663; June 7; v. 287; p. 64.
- Wireless direction-finder. R. A. Fessenden. No. 1,374,293; Apr. 12; v. 285; p. 218.
- Wireless direction-finder. H. J. Round. No. 1,368,657; Feb. 15; v. 283; p. 452.
- Wireless fog-signal system, Audiofrequency. E. C. Hanson. No. 1,388,949; Aug. 30; v. 289; p. 827.
- Wireless phonograph for hospitals. E. C. Hanson. No. 1,381,827; June 14; v. 287; p. 337.
- Wireless receiver. T. W. Case. No. 1,379,167; May 24; v. 286; p. 714.
- Wireless receiving system. A. W. Hull. No. 1,387,986; Aug. 16; v. 289; p. 525.
- Wireless receiving and transmitting apparatus. J. Erskine-Murray and J. Robinson. No. 1,398,848; Nov. 29.
- Wireless signaling, Aerial system for. C. S. Franklin. No. 1,370,735; Mar. 8; v. 284; p. 232.
- Wireless signaling apparatus. A. A. Hall. No. 1,384,523; July 12; v. 288; p. 311.
- Wireless signaling apparatus. H. J. Round. No. 1,395,987; Nov. 1.
- Wireless signaling, Method and apparatus for. F. H. Kroger. No. 1,365,787; Jan. 18; v. 282; p. 420.
- Wireless system, Submarine. W. G. Zeigler. No. 1,382,590; June 21; v. 287; p. 541.
- Wireless-telegraph receiver. E. W. B. Gill. No. 1,371,757; Mar. 15; v. 284; p. 491.
- Wireless-telegraph receiver. G. M. Wright. No. 1,394,600; Oct. 25.
- Wireless telegraphy, Aerial conductor for. C. S. Franklin. (Reissue.) Nos. 15,040-1; Feb. 15; v. 283; p. 517.
- Wireless telegraphy and telephony, Aerial system employed in. C. S. Franklin. No. 1,368,622; Feb. 15; v. 283; p. 445.
- Wireless telegraphy, Generator of high-frequency oscillations for. V. J. F. Bouchardon. No. 1,373,710; Apr. 5; v. 285; p. 64.
- Wireless transmission system, Valve of. C. E. Hiatt and W. J. Davis. No. 1,394,090; Oct. 18.
- Wireless transmitting system. H. K. Sandell. No. 1,391,855; Sept. 27; v. 290; p. 691.
- Wood and metal manufacturers, Polisher and grinder for. B. Zsarnay. No. 1,388,231; Aug. 23; v. 289; p. 630.
- Wood and other carbonaceous material, Process and apparatus for carbonizing. J. F. Wells. No. 1,383,888; July 5; v. 288; p. 130.



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- Wood-carving device. E. R. Spreadbury. No. 1,389,462; Aug. 30; v. 289; p. 929.
- Wood-carving machine. J. Galbraith. No. 1,368,712; Feb. 15; v. 283; p. 463.
- Wood composition. G. Magnani. No. 1,364,776; Jan. 4; v. 282; p. 141.
- Wood distillation. J. S. Pearce. No. 1,395,867; Nov. 1.
- Wood distillation. E. M. Sawtelle. No. 1,374,887; Apr. 12; v. 285; p. 833.
- Wood for seasoning it, Treatment of. M.-P. Otto. No. 1,381,656; June 14; v. 287; p. 304.
- Wood-grainer. E. Jolliffe. No. 1,384,959; July 19; v. 288; p. 483.
- Wood-impregnating retorts, Condenser and separator for. J. H. Dunstan and R. A. Davis. No. 1,374,069; Apr. 5; v. 285; p. 134.
- Wood, Method and apparatus for transforming. H. F. Weiss. No. 1,366,225; Jan. 18; v. 282; p. 505.
- Wood or other plastic bodies, Manufacture of artificial. H. Plauson. No. 1,397,144; Nov. 15.
- Wood preservation and means for effecting the same. G. Pfeiffer, Jr. No. 1,369,589; Feb. 22; v. 283; p. 662.
- Wood, Preserving. S. B. Moore. No. 1,388,877; Aug. 30; v. 289; p. 812.
- Wood protection. P. Bartsch. No. 1,374,806; Apr. 12; v. 285; p. 317.
- Wood-reworking machines, Feed mechanism for. W. J. Elder. No. 1,378,845; May 24; v. 286; p. 653.
- Wood substitute and making same. G. D. Rose. No. 1,370,155; Mar. 1; v. 284; p. 75.
- Wood, Tool for boring and counterboring. L. S. Hayden. No. 1,398,779; Nov. 29.
- Wood, Treating. A. C. Chandler. No. 1,388,513; Aug. 23; v. 289; p. 687.
- Wood, Treating. L. N. Lyon. No. 1,382,103; June 21; v. 287; p. 448.
- Wood, Treating. S. Smith. No. 1,380,429; June 7; v. 287; p. 20.
- Wood, Treating. A. H. Twombly, A. P. Ludin, and R. A. Marr. No. 1,396,899; Nov. 15.
- Wood wheel. C. N. Waterhouse. No. 1,387,568; Aug. 16; v. 289; p. 442.
- Wooden article and making the same. G. Morandl. No. 1,385,387; July 26; v. 288; p. 646.
- Wooden shell. A. J. Martin. No. 1,385,635; July 26; v. 288; p. 698.
- Wooden surfaces, Electrically-operated machine for scraping irregular. I. A. Watrous. No. 1,392,543; Oct. 4.
- Woodworking, Joining-equalizer for. W. J. Karmire. No. 1,401,787; Dec. 27.
- Woodworking-machine. M. Hutchinson. No. 1,369,744; Feb. 22; v. 283; p. 703.
- Woodworking-machine. E. L. Taylor. No. 1,372,374; Mar. 22; v. 284; p. 666.
- Woodworking-machine. G. F. Welivar. No. 1,388,988; Aug. 30; v. 289; p. 835.
- Woodworking-machines, Cutter-head for. C. L. Long and C. Schmaus. No. 1,387,278; Aug. 9; v. 289; p. 331.
- Woodworking-machines, Pressure-guard for. J. D. McMichael. No. 1,399,137; Dec. 6.
- Woodworking-machines, Turning-head for. C. L. Long. No. 1,370,825; Mar. 8; v. 284; p. 249.
- Woodworking-shapers, Attachment for. W. A. Henn. No. 1,378,350; May 17; v. 286; p. 485.
- Wool-fat solutions, Distilling or recovering naphtha or other hydrocarbons from. C. N. Wilson. No. 1,383,585; July 5; v. 288; p. 68.
- Wool substitute from cellulose and similar solutions, Manufacturing a. P. H. Minck. No. 1,383,742; July 5; v. 288; p. 101.
- Wool, Washing or scouring. R. M. Poole and H. F. Davis. No. 1,377,790; May 10; v. 286; p. 327.
- Work and display stand. P. H. and J. H. Gartner. No. 1,387,253; Aug. 9; v. 289; p. 326.
- Work and tool holder. H. Brooker. No. 1,367,014; Feb. 1; v. 283; p. 26.
- Work-clamp. J. G. Sauer. No. 1,372,833; Mar. 29; v. 284; p. 796.
- Work-feeding-tripping means. W. S. Sherman. No. 1,381,352; June 14; v. 287; p. 247.
- Work-guide. F. L. MacKenzie and G. Goddu. No. 1,375,796; Apr. 26; v. 285; p. 600.
- Work-handling method. H. A. Lewis. No. 1,367,061; Feb. 1; v. 283; p. 36.
- Work-holder. A. C. Lindholm. No. 1,376,953; May 3; v. 286; p. 109.
- Work-holder. H. W. Milling. No. 1,384,079; July 12; v. 288; p. 219.
- Work-holder. J. W. Wagner. No. 1,396,302; Nov. 8.
- Work holding or setting appliance, Machine and other vise and like. W. L. Secord. No. 1,372,661; Mar. 22; v. 284; p. 721.
- Work-holding stand. C. Frair. No. 1,398,096; Nov. 22.
- Work or tool holder, Universally-adjustable. I. L. Cole. No. 1,399,194; Dec. 6.
- Work-piece-feeding mechanism. E. V. and V. Swangren. No. 1,389,790; Sept. 6; v. 290; p. 46.
- Woven pocketed carrier. F. R. Batchelder. No. 1,375,442; Apr. 19; v. 285; p. 502.
- Woven pocketed carrier. V. H. Jennings. No. 1,373,739; Apr. 5; v. 285; p. 69.
- Work-positioning device. J. M. Benjamin. No. 1,400,716; Dec. 20.
- Work-positioning mechanism. G. Goddu and F. L. Mackenzie. No. 1,401,248; Dec. 27.
- Work-rest. W. A. Blackburn. No. 1,401,131; Dec. 27.
- Work-support. E. Benson. No. 1,395,664; Nov. 1.
- Work-support. C. C. Blake and M. E. Fernald. No. 1,373,114; Mar. 29; v. 284; p. 852.
- Work-support. L. A. Casgrain. No. 1,382,759; June 28; v. 287; p. 627.
- Work-support. G. Goddu. No. 1,384,830; July 19; v. 288; p. 456.
- Work-support. G. Goddu and F. L. Mackenzie. No. 1,396,192; Nov. 8.
- Work-support, Adjustable. N. Schwagel. No. 1,366,962; Feb. 1; v. 283; p. 16.
- Work supporting and guiding device. C. A. Green. No. 1,385,538; July 26; v. 288; p. 677.
- Work-supporting mechanism. T. Scott and J. E. Cleland. No. 1,365,792; Jan. 18; v. 282; p. 421.
- Work-supporting table. J. W. Droll. No. 1,372,870; Mar. 29; v. 284; p. 804.
- Workbox for domestic use. R. Kelsall. No. 1,382,188; June 21; v. 287; p. 464.
- Working machine. Leather. R. F. Whitney. No. 1,380,760; June 7; v. 287; p. 83.
- Working-time indicator. H. Osieck. No. 1,383,560; July 5; v. 288; p. 62.
- Worm-screw spindle, Shock-absorbing. M. Leitch. No. 1,364,120; Jan. 4; v. 282; p. 14.
- Woven fabric. F. H. Stewart. No. 1,368,214; Feb. 8; v. 283; p. 318.
- Woven fabric. F. H. Stewart. No. 1,368,215; Feb. 8; v. 283; p. 318.
- Wrapper. J. L. Christensen. No. 1,381,904; June 21; v. 287; p. 412.
- Wrapper. F. B. Oldham. No. 1,381,425; June 14; v. 287; p. 261.
- Wrapper, Mailing-. H. L. Greve. No. 1,376,871; May 3; v. 286; p. 94.
- Wrapper, Mailing-. H. L. Greve. No. 1,376,872; May 3; v. 286; p. 94.
- Wrapper, Package-. D. L. Baxter. No. 1,384,115; July 12; v. 288; p. 227.
- Wrapping and means for practising same. W. H. Wheldon. No. 1,400,116; Dec. 13.
- Wrapping and sealing articles, Machine for. T. G. McGirr. No. 1,370,980; Mar. 8; v. 284; p. 278.
- Wrapping and unwrapping machine. W. C. Stevens. No. 1,395,063; Oct. 25.
- Wrapping articles, Machine for. C. O. Wachter. No. 1,394,240; Oct. 18.
- Wrapping device. J. E. Fillingame and J. M. Rideout. No. 1,364,093; Jan. 4; v. 282; p. 9.
- Wrapping device. K. Miyasaki. No. 1,375,797; Apr. 26; v. 285; p. 601.
- Wrapping-machine. E. H. Angier and W. M. Wheldon. No. 1,382,403; June 21; v. 287; p. 506.
- Wrapping-machine. H. Y. Armstrong. No. 1,400,202; Dec. 13.
- Wrapping-machine. J. F. Cullin. No. 1,380,531; June 7; v. 287; p. 39.
- Wrapping-machine. O. E. Edstrom. No. 1,375,369; Apr. 19; v. 285; p. 487.
- Wrapping-machine. A. Feifer. No. 1,393,768; Oct. 18.
- Wrapping-machine. J. Scherner and E. Hutchens. No. 1,387,016; Aug. 9; v. 289; p. 281.
- Wrapping-machine. E. L. Smith. No. 1,377,975; May 10; v. 286; p. 362.
- Wrapping-machine. E. L. Smith. No. 1,382,445; June 21; v. 287; p. 514.
- Wrapping machine, Can-. F. H. Knapp and H. G. Dewey. No. 1,370,750; Mar. 8; v. 284; p. 235.
- Wrapping-machine folder. W. C. Stevens. (Reissue.) No. 15,099; May 3; v. 286; p. 151.
- Wrapping-machine, Horizontal-shuttle. F. M. Pierce. No. 1,399,989; Dec. 13.
- Wrapping-machines, Apparatus for unwinding paper strips from rolls of paper in. R. Leumann. No. 1,400,827; Dec. 20.
- Wrapping-machines, Feeding and forming mechanism for. C. J. Lietz. No. 1,384,198; July 12; v. 288; p. 244.
- Wrapping-machines, Numbering device for. A. C. Kappes. No. 1,384,899; July 19; v. 288; p. 470.
- Wrapping-machines, Receiving and transfer mechanism for. C. J. Lietz. No. 1,384,199; July 12; v. 288; p. 244.
- Wrapping or packaging machine. E. H. Angier. No. 1,394,266; Oct. 18.
- Wrapping up articles of parallelepiped form, Apparatus for. R. Leumann. No. 1,378,694; May 17; v. 286; p. 552.
- Wreaths, Automatic machine for making metallic frames for. C. Smith. No. 1,394,796; Oct. 25.
- Wrecking-bar. A. Juelfs. No. 1,377,014; May 3; v. 286; p. 121.
- Wrecking-tool. A. Downey. No. 1,389,820; Sept. 6; v. 290; p. 52.



## Wrench: See—

- Adjustable wrench.  
Adjustable socket-wrench.  
Adjustable tappet-wrench.  
Angle-wrench.  
Angular-socket wrench.  
Automatic wrench.  
Cant-slip wrench.  
Chain wrench.  
Chain pipe-wrench.  
Combination-wrench.  
Combination pipe-wrench.  
End-wrench.  
Friction-wrench.  
Grease-cup wrench.  
Jar-wrench.  
Monkey-wrench.  
Multiple wrench.  
Multiple adjustable wrench.  
Nut-wrench.  
Oil-cock wrench.  
Oil-test wrench.  
Pipe wrench.  
Pipe and nut wrench.
- Plier-type wrench.  
Pliers and end wrench.  
Power-wrench.  
Quick-acting wrench.  
Quick-adjusting wrench.  
Ratchet-wrench.  
Ratchet socket-wrench.  
Reversible socket-wrench.  
Safety pneumatic wrench.  
Screw-wrench.  
Screw-action wrench.  
Screw-cap wrench.  
Slip-jaw wrench.  
Socket-wrench.  
Spanner-wrench.  
Spud-wrench.  
Strap-wrench.  
Strud-driving wrench.  
Tool-wrench.  
Turnbuckle-wrench.  
Well-casing wrench.  
Well-drill wrench.
- Wrench. A. C. Allan. No. 1,386,149; Aug. 2; v. 289; p. 37.  
Wrench. J. G. Allmon. No. 1,384,655; July 12; v. 288; p. 340.  
Wrench. V. A. Anderson. No. 1,400,134; Dec. 13.  
Wrench. A. G. H. Andr  e. No. 1,377,178; May 10; v. 286; p. 208.  
Wrench. G. W. Ansley. No. 1,375,546; Apr. 19; v. 285; p. 521.  
Wrench. B. V. Apfeld. No. 1,375,071; Apr. 19; v. 285; p. 431.  
Wrench. W. B. Bandy. No. 1,368,380; Feb. 15; v. 283; p. 398.  
Wrench. J. L. Barnes. No. 1,393,070; Oct. 11.  
Wrench. M. Belcher. No. 1,386,229; Aug. 2; v. 289; p. 53.  
Wrench. J. V. Belluomini. No. 1,384,588; July 12; v. 288; p. 325.  
Wrench. F. R. Bemus. No. 1,371,463; Mar. 15; v. 284; p. 435.  
Wrench. J. Berggren. No. 1,398,886; Nov. 29.  
Wrench. J. E. Bergman. No. 1,378,209; May 17; v. 286; p. 459.  
Wrench. C. Bernard. No. 1,367,730; Feb. 8; v. 283; p. 225.  
Wrench. W. L. Bockover. No. 1,370,510; Mar. 8; v. 284; p. 188.  
Wrench. J. E. Bonnett. No. 1,381,786; June 14; v. 287; p. 329.  
Wrench. M. Bricher. No. 1,387,346; Aug. 9; v. 289; p. 347.  
Wrench. L. Briles. No. 1,373,861; Apr. 5; v. 285; p. 94.  
Wrench. E. B. Brookshire. No. 1,373,296; Mar. 29; v. 284; p. 889.  
Wrench. E. W. Bullard. No. 1,367,297; Feb. 1; v. 283; p. 82.  
Wrench. H. Butt. No. 1,397,262; Nov. 15.  
Wrench. S. A. Campbell. No. 1,371,350; Mar. 15; v. 284; p. 412.  
Wrench. J. Canelles. No. 1,387,761; Aug. 16; v. 289; p. 481.  
Wrench. W. A. Carleton and C. E. Yoho. No. 1,398,125; Nov. 22.  
Wrench. W. J. Carpenter. No. 1,386,596; Aug. 9; v. 289; p. 196.  
Wrench. J. M. Cavanaugh. No. 1,382,761; June 28; v. 287; p. 628.  
Wrench. G. D. Chenette. No. 1,369,784; Mar. 1; v. 284; p. 6.  
Wrench. J. M. Clark. No. 1,398,889; Nov. 29.  
Wrench. E. W. Cochran. No. 1,368,900; Feb. 15; v. 283; p. 499.  
Wrench. E. W. Cochran. No. 1,395,800; Nov. 1.  
Wrench. T. E. Connor. No. 1,391,461; Sept. 20; v. 290; p. 538.  
Wrench. M. A. Crozier. No. 1,370,733; Mar. 8; v. 284; p. 231.  
Wrench. A. M. Cunha. No. 1,370,194; Mar. 1; v. 284; p. 83.  
Wrench. F. Danielson. No. 1,394,539; Oct. 25.  
Wrench. J. W. Davies. No. 1,379,536; May 24; v. 286; p. 784.  
Wrench. F. E. Davis. No. 1,380,044; May 31; v. 286; p. 954.  
Wrench. C. A. Dies. No. 1,389,581; Sept. 6; v. 290; p. 4.  
Wrench. M. C. Dillon. No. 1,371,873; Mar. 15; v. 284; p. 514.  
Wrench. R. H. Dinnoek, J. Sheaver, and G. Wyskocil. No. 1,388,029; Aug. 16; v. 289; p. 533.  
Wrench. C. W. Dixon. No. 1,391,764; Sept. 27; v. 290; p. 672.  
Wrench. B. Dobazenecki. No. 1,377,758; May 10; v. 286; p. 320.  
Wrench. O. Duda. No. 1,384,800; July 19; v. 288; p. 450.  
Wrench. G. Durgan and H. Myers. No. 1,373,180; Mar. 29; v. 284; p. 866.  
Wrench. S. Eagle. No. 1,380,643; June 7; v. 287; p. 60.  
Wrench. R. C. Evans. No. 1,371,415; Mar. 15; v. 284; p. 426.  
Wrench. L. Evans. No. 1,382,492; June 21; v. 287; p. 523.  
Wrench. E. J. Evans and G. E. Hemphill. No. 1,391,180; Sept. 20; v. 290; p. 480.  
Wrench. A. S. Fisher. No. 1,386,325; Aug. 2; v. 289; p. 72.  
Wrench. C. F. Fletcher. No. 1,392,318; Oct. 4.  
Wrench. O. R. Fowble. No. 1,380,052; May 31; v. 286; p. 955.  
Wrench. J. J. Fraro. No. 1,395,952; Nov. 1.  
Wrench. E. W. Grogan. No. 1,372,618; Mar. 22; v. 284; p. 713.  
Wrench. W. F. Hagedorn. No. 1,369,804; Mar. 1; v. 284; p. 10.  
Wrench. J. L. Happy. No. 1,371,679; Mar. 15; v. 284; p. 476.  
Wrench. W. E. Hart. No. 1,400,285; Dec. 13.  
Wrench. A. R. Heaney. No. 1,391,110; Sept. 20; v. 290; p. 466.  
Wrench. A. B. Heimbach. No. 1,377,772; May 10; v. 286; p. 323.  
Wrench. A. B. Heimbach. No. 1,385,994; Aug. 2; v. 289; p. 6.  
Wrench. J. C. Holley. No. 1,367,969; Feb. 8; v. 283; p. 270.  
Wrench. T. S. Hose. No. 1,397,214; Nov. 15.  
Wrench. A. D. Hullett. No. 1,399,621; Dec. 6.  
Wrench. J. C. Hurley. No. 1,386,708; Aug. 9; v. 289; p. 219.  
Wrench. J. Jaros. No. 1,368,801; Feb. 15; v. 283; p. 480.  
Wrench. R. H. Jones. No. 1,383,123; June 28; v. 287; p. 696.  
Wrench. S. M. Katcart. No. 1,397,638; Nov. 22.  
Wrench. D. C. Kerr. No. 1,371,491; Mar. 15; v. 284; p. 441.  
Wrench. F. Kettler. No. 1,391,898; Sept. 20; v. 290; p. 699.  
Wrench. A. Kikta. No. 1,389,515; Aug. 30; v. 289; p. 939.  
Wrench. C. W. King. No. 1,399,966; Dec. 13.  
Wrench. A. C. Kloppe. No. 1,385,214; July 19; v. 288; p. 536.  
Wrench. E. T. Knitter. No. 1,384,765; July 19; v. 288; p. 443.  
Wrench. G. C. Kotrba. No. 1,378,035; May 17; v. 286; p. 426.  
Wrench. G. Kuhns. No. 1,378,687; May 17; v. 286; p. 551.  
Wrench. F. Lambert. No. 1,388,866; Aug. 30; v. 289; p. 810.  
Wrench. F. K. Lawrence. No. 1,401,615; Dec. 27.  
Wrench. O. H. Lay. No. 1,399,265; Dec. 6.  
Wrench. G. M. Lee. No. 1,377,895; May 10; v. 286; p. 347.  
Wrench. C. H. Lewis. No. 1,384,618; July 12; v. 288; p. 332.  
Wrench. A. Linde. No. 1,389,200; Aug. 30; v. 289; p. 877.  
Wrench. A. S. Lizak. No. 1,385,180; July 19; v. 288; p. 529.  
Wrench. R. Lumsden. No. 1,399,633; Dec. 6.  
Wrench. F. C. Lyon, Sr. No. 1,390,917; Sept. 13; v. 290; p. 365.  
Wrench. T. Matheny. No. 1,381,128; June 14; v. 287; p. 207.  
Wrench. O. B. McClurkin. No. 1,367,407; Feb. 1; v. 283; p. 105.  
Wrench. O. B. McClurkin. No. 1,367,408; Feb. 1; v. 283; p. 105.  
Wrench. C. Meyer. No. 1,390,371; Sept. 13; v. 290; p. 254.  
Wrench. H. R. Milan. No. 1,400,226; Dec. 13.  
Wrench. W. F. Miller. No. 1,395,052; Oct. 25.  
Wrench. A. W. Minney. No. 1,391,337; Sept. 20; v. 290; p. 513.  
Wrench. A. W. Minney. No. 1,391,749; Sept. 27; v. 290; p. 669.  
Wrench. A. W. Minney. No. 1,392,651; Oct. 4.  
Wrench. A. W. Minney. No. 1,392,782; Oct. 4.  
Wrench. J. H. Miskimen. No. 1,369,459; Feb. 22; v. 283; p. 646.  
Wrench. J. R. Mitchell. No. 1,401,484; Dec. 27.  
Wrench. C. G. Moline. No. 1,375,530; Apr. 19; v. 285; p. 518.  
Wrench. W. L. Morgan. No. 1,400,451; Dec. 13.  
Wrench. L. H. Morris. No. 1,364,448; Jan. 4; v. 282; p. 78.  
Wrench. F. M. Murray. No. 1,383,744; July 5; v. 288; p. 101.  
Wrench. C. F. Nast. No. 1,389,685; Sept. 6; v. 290; p. 25.  
Wrench. C. E. Nebel. No. 1,367,422; Feb. 1; v. 283; p. 107.  
Wrench. S. J. Nordstrom. No. 1,400,905; Dec. 20.  
Wrench. J. O'Brien, Jr. No. 1,370,351; Mar. 1; v. 284; p. 113.  
Wrench. J. E. Owen. No. 1,377,428; May 10; v. 286; p. 257.  
Wrench. E. M. Pauley. No. 1,373,201; Mar. 29; v. 284; p. 870.  
Wrench. G. Peszternak. No. 1,398,274; Nov. 29.



## Alphabetical list of inventions—Continued.

- Wrench. W. Petersen. No. 1,392,443; Oct. 4.  
Wrench. C. O. Poole. No. 1,378,719; May 17; v. 286; p. 557.  
Wrench. C. C. Reavel. No. 1,396,590; Nov. 8.  
Wrench. C. E. Reed. No. 1,387,867; Aug. 16; v. 289; p. 503.  
Wrench. J. O. Reynolds. No. 1,373,022; Mar. 29; v. 284; p. 835.  
Wrench. W. H. Roach. No. 1,377,930; May 10; v. 286; p. 354.  
Wrench. H. T. Roberts. No. 1,394,939; Oct. 25.  
Wrench. O. F. Roberts. No. 1,401,817; Dec. 27.  
Wrench. S. Rood. No. 1,390,460; Sept. 13; v. 290; p. 272.  
Wrench. R. A. Rosander. (Reissue.) No. 15,135; June 28; v. 287; p. 275.  
Wrench. H. F. Samson. No. 1,371,118; Mar. 8; v. 284; p. 304.  
Wrench. H. Schlutz. No. 1,395,656; Nov. 1.  
Wrench. E. P. Schwarz. No. 1,399,890; Dec. 13.  
Wrench. A. M. Shenk, A., and L. Saltzer. No. 1,394,225; Oct. 18.  
Wrench. E. E. Sievert. No. 1,368,580; Feb. 15; v. 283; p. 437.  
Wrench. W. O. and B. J. Singer. No. 1,382,938; June 28; v. 287; p. 661.  
Wrench. F. M. Smith. No. 1,376,295; Apr. 26; v. 285; p. 697.  
Wrench. J. C. Smith. No. 1,386,905; Aug. 9; v. 289; p. 260.  
Wrench. H. J. Smith. No. 1,388,005; Aug. 16; v. 289; p. 529.  
Wrench. H. Smith, Jr. No. 1,397,462; Nov. 15.  
Wrench. N. K. Smith. No. 1,397,884; Nov. 22.  
Wrench. A. H. Snyder and A. Kowal. No. 1,371,649; Mar. 15; v. 284; p. 471.  
Wrench. G. H. Spong. No. 1,379,482; May 24; v. 286; p. 773.  
Wrench. C. C. Steward. No. 1,364,214; Jan. 4; v. 282; p. 32.  
Wrench. C. C. Steward. No. 1,392,238; Sept. 27; v. 290; p. 768.  
Wrench. C. L. Stidham. No. 1,395,933; Nov. 1.  
Wrench. C. A. Stolakiss. No. 1,383,672; July 5; v. 288; p. 86.  
Wrench. W. Tankersley. No. 1,372,662; Mar. 22; v. 284; p. 721.  
Wrench. S. L. Taylor. No. 1,385,506; July 26; v. 288; p. 671.  
Wrench. E. C. and W. H. Thompson. No. 1,396,387; Nov. 8.  
Wrench. J. W. Tracy. No. 1,388,131; Aug. 16; v. 289; p. 553.  
Wrench. P. J. Tumulla. No. 1,371,952; Mar. 15; v. 284; p. 528.  
Wrench. A. G. Udgard. No. 1,372,918; Mar. 29; v. 284; p. 814.  
Wrench. C. E. Vandenberg. No. 1,396,981; Nov. 15.  
Wrench. J. L. Walsh and H. H. Reiber. No. 1,366,224; Jan. 18; v. 282; p. 505.  
Wrench. O. A. Ward. No. 1,396,982; Nov. 15.  
Wrench. H. G. Wernimont. No. 1,370,175; Mar. 1; v. 284; p. 79.  
Wrench. D. W. B. Wilson. No. 1,367,222; Feb. 1; v. 283; p. 68.  
Wrench. E. C. Woods. No. 1,364,600; Jan. 4; v. 282; p. 106.  
Wrench. P. York. No. 1,371,965; Mar. 15; v. 284; p. 531.  
Wrench. J. Zilliox. No. 1,386,217; Aug. 2; v. 289; p. 51.  
Wrench and pipe-tongs, Combined. C. Andersen. No. 1,395,785; Nov. 1.  
Wrench attachment. F. Ettinger. No. 1,396,171; Nov. 8.  
Wrench, Double-grip-socket. W. D. Reist. No. 1,396,591; Nov. 8.  
Wrench-handle. W. J. Wright. No. 1,371,533; Mar. 15; v. 284; p. 449.  
Wrench-handles, Making. R. R. Coes. No. 1,395,222; Oct. 25.  
Wrench mechanism. J. Nelson. No. 1,366,587; Jan. 25; v. 282; p. 621.  
Wrench, Monkey-. W. Gordon. No. 1,380,794; June 7; v. 287; p. 90.  
Wrench, Quick-adjusting. G. Hoffmann. No. 1,396,576; Nov. 8.  
Wrench, Screw-cap. A. Stockland. No. 1,396,298; Nov. 8.  
Wrench, Socket-. W. Barnes. No. 1,381,900; June 21; v. 287; p. 411.  
Wrench, Socket-. F. I. Silva. No. 1,395,528; Nov. 1.  
Wrench-sockets, Forming. P. C. Baldus. No. 1,375,767; Apr. 26; v. 285; p. 595.  
Wriggler. A. E. Moore. No. 1,398,881; Nov. 29.  
Wringer. See—  
Clothes-wringer. Mop-wringer.  
Floor-mop wringer.  
Wringer. H. Hansen. No. 1,400,433; Dec. 13.  
Wringer. H. C. Hirschy. No. 1,399,482; Dec. 6.  
Wringer. B. S. McCutchen. Nos. 1,399,303-4; Dec. 6.  
Wringer. J. J. Wood. No. 1,366,622; Jan. 25; v. 282; p. 628.  
Wringer and clamp therefor. L. R. Jones. No. 1,373,965; Apr. 5; v. 285; p. 115.  
Wringer attachment. L. F. Doellinger. No. 1,375,784; Apr. 26; v. 285; p. 598.  
Wringer, Clothes-. W. H. Meyer. No. 1,401,805; Dec. 27.  
Wringer device. P. W. Carroll. No. 1,392,478; Oct. 4.  
Wringer-rolls, Stripping mechanism for. T. J. Bonniwell. No. 1,375,356; Apr. 19; v. 285; p. 485.  
Wringer-support. E. Twigg. No. 1,378,500; May 17; v. 286; p. 514.  
Wringers, Feeding device for clothes-. R. P. Wright. No. 1,368,872; Feb. 15; v. 283; p. 494.  
Wringers, Interlock for swinging power-driven. J. F. Lamb. No. 1,378,472; May 17; v. 286; p. 508.  
Wringers, Positive pressure-release for clothes-. R. P. Wright. No. 1,368,873; Feb. 15; v. 283; p. 494.  
Wringers, Safety device for clothes-. W. A. Schuedler. No. 1,394,360; Oct. 18.  
Wrist-pin. C. H. Clemous. No. 1,395,946; Nov. 1.  
Wrist-pin. J. H. Fullington. No. 1,384,186; July 12; v. 288; p. 242.  
Wrist-pin. W. R. Miller. No. 1,373,345; Mar. 29; v. 284; p. 899.  
Wrist-pin bearing, Removable. R. F. Forkner and A. Straightiff. No. 1,375,142; Apr. 19; v. 285; p. 441.  
Writing and drawing apparatus. J. G. Hendrickson. No. 1,386,332; Aug. 2; v. 289; p. 74.  
Writing and numbering machine, Check. C. H. Wolfe and H. G. Allen. No. 1,366,620; Jan. 25; v. 282; p. 628.  
Writing and reading device, Self-luminous. P. M. Willis. No. 1,373,783; Apr. 5; v. 285; p. 78.  
Writing, Apparatus for insuring the correct position of the fingers and hand in. A. G. A. S. de Leysat and C. D. Discry. No. 1,379,804; May 31; v. 286; p. 908.  
Writing attachment. J. P. Glaesser. No. 1,367,872; Feb. 8; v. 283; p. 253.  
Writing-machine. E. J. Orr. No. 1,391,788; Sept. 27; v. 290; p. 676.  
Writing machine, Check-. L. M. Todd and M. H. Johanson. No. 1,364,962; Jan. 11; v. 282; p. 221.  
Writing-machines, Micrometer line-spacing adjustment for. P. B. Tingley. No. 1,381,143; June 14; v. 287; p. 210.  
Wrought iron, Making. J. Aston. No. 1,370,507; Mar. 8; v. 284; p. 187.  
Wrought iron, Making. J. Aston. No. 1,370,622; Mar. 8; v. 284; p. 210.  
X-ray apparatus. W. D. Coolidge. No. 1,365,638; Jan. 11; v. 282; p. 351.  
X-ray apparatus. W. D. Coolidge. No. 1,394,143; Oct. 18.  
X-ray apparatus. W. Meyer. No. 1,384,143; July 12; v. 288; p. 233.  
X-ray apparatus. W. Meyer. No. 1,384,144; July 12; v. 288; p. 233.  
X-ray apparatus. M. B. Rodriguez. No. 1,390,250; Sept. 6; v. 290; p. 138.  
X-ray apparatus. S. Tousey. No. 1,372,110; Mar. 22; v. 284; p. 615.  
X-ray apparatus, Cell-diaphragm for. S. Tousey. No. 1,381,521; June 14; v. 287; p. 279.  
X-ray-film carrier. S. Tousey. No. 1,370,858; Mar. 8; v. 284; p. 255.  
X-ray-film-developing tank, Daylight. J. B. Garrett. No. 1,393,108; Oct. 11.  
X-ray films, Cassette for. M. B. Hodgson. No. 1,367,601; Feb. 8; v. 283; p. 200.  
X-ray films, Package of. J. G. Jones. No. 1,395,918; Nov. 1.  
X-ray machines, Switch mechanism for. W. C. Dee. No. 1,396,815; Nov. 15.  
X-ray negatives, File record and mount for. O. A. Helmer. No. 1,387,488; Aug. 16; v. 289; p. 426.  
X-ray photographing appliance. G. E. Richards. No. 1,374,235; Apr. 12; v. 285; p. 206.  
X-ray plates, Stereoscope for. H. F. Waite. No. 1,373,847; Apr. 5; v. 285; p. 91.  
X-ray stand and table. W. Meyer. No. 1,371,507; Mar. 15; v. 284; p. 444.  
X-ray system. H. F. Waite. No. 1,370,010; Mar. 8; v. 284; p. 284.  
X-ray system, Fluoroscopic. H. F. Waite. No. 1,400,333; Dec. 13.  
X-ray tube. T. B. Rider. No. 1,400,001; Dec. 13.  
X-ray-tube-controlling mechanism. H. A. Mulvany and H. E. Kennedy. No. 1,387,162; Aug. 9; v. 289; p. 310.  
X-ray tubes, Guard for. G. C. Johnston and L. S. Uphoff. No. 1,400,607; Dec. 20.  
X-ray tubes, Increasing the efficiency of. W. Meyer. No. 1,394,569; Oct. 25.  
X-rays and similar radiations, Protecting device against. P. A. M. J. Angebaud. No. 1,368,094; Feb. 8; v. 283; p. 294.  
Yarn. Apparatus for drying. G. Bailey. No. 1,383,510; July 5; v. 288; p. 52.  
Yarn-cleaning device. W. E. Goyette. No. 1,391,540; Sept. 20; v. 290; p. 554.  
Yarn, Device for guiding, clearing, and tensioning. J. O. McKean. No. 1,392,515; Oct. 4.  
Yarn-holder. M. Levy. No. 1,386,264; Aug. 2; v. 289; p. 60.  
Yarn, Metallic. C. Ruoff and J. Nitschman. No. 1,376,730; May 3; v. 286; p. 66.  
Yarn package, and method and mechanism for winding it. T. Andrew. No. 1,400,403; Dec. 13.  
Yarn spooler or winder, Auxiliary. C. M. Byrd. No. 1,381,791; June 14; v. 287; p. 330.  
Yarn-tension device. A. M. Pigeon. No. 1,385,189; July 19; v. 288; p. 531.



- Yarn-tension machine. L. T. Houghton. No. 1,382,730; June 28; v. 287; p. 622.
- Yarn, twine, cord, and the like by spinning or twisting flat strips of material, Production of. J. S. Harley. No. 1,379,981; May 31; v. 286; p. 942.
- Yarn-winding machine. L. Stocker. No. 1,389,392; Aug. 30; v. 289; p. 915.
- Yarn-winding machine. H. E. White. No. 1,373,040; Mar. 29; v. 284; p. 838.
- Yarn with liquids, Treating hanks of. H. Hablützel-Frel. No. 1,383,300; July 5; v. 288; p. 9.
- Yarns, Frame for doubling. F. Chadwick. No. 1,400,026; Dec. 13.
- Yarns in the form of hanks, skeins, or bundles, Machine for dyeing or similarly treating. A. Ashworth. No. 1,367,112; Feb. 1; v. 283; p. 46.
- Yeast, Food product obtained from brewers'. J. C. Miller. No. 1,391,561; Sept. 20; v. 290; p. 558.
- Yeast, Food product obtained from brewers'. J. C. Miller. No. 1,391,562; Sept. 20; v. 290; p. 558.
- Yeast, Making dry. W. B. D. Penniman. No. 1,386,359; Aug. 2; v. 289; p. 78.
- Yeast, Making dry. W. B. D. Penniman. No. 1,386,360; Aug. 2; v. 289; p. 78.
- Yeast, Making dry. W. B. D. Penniman. No. 1,386,361; Aug. 2; v. 289; p. 78.
- Yeast preparation and fermentation, Preparation of media for. R. Wahl. No. 1,379,294; May 24; v. 286; p. 738.
- Yieldable connecting-rod. C. H. Kugler. No. 1,389,055; Aug. 30; v. 289; p. 848.
- Yielding coupling. A. Lanz. No. 1,376,774; May 3; v. 286; p. 74.
- Yielding fastening for joints. F. Lambert. No. 1,377,986; May 10; v. 286; p. 364.
- Yieldable joint. T. G. Linderme. No. 1,386,265; Aug. 2; v. 289; p. 60.
- Yielding universal joint. F. R. Hume. No. 1,386,000; Aug. 2; v. 289; p. 7.
- Yoke. A. J. Forsythe. No. 1,399,204; Dec. 6.
- Yoke. W. A. Geiger. No. 1,372,683; Mar. 29; v. 284; p. 767.
- Yoke. J. F. O'Connor. No. 1,369,535; Feb. 22; v. 283; p. 661.
- Yoke, Drawbar-. C. E. Bauer. No. 1,375,768; Apr. 26; v. 285; p. 595.
- Yoke, Drawbar-. G. C. Murray. No. 1,370,702; Mar. 8; v. 284; p. 225.
- Yoke center, Neck-. J. N. Lindquist. No. 1,375,920; Apr. 26; v. 285; p. 625.
- Yoke connection, Resilient. R. H. Randall and A. Leighton. No. 1,395,871; Nov. 1.
- Yoke, Draft-gear. G. C. Murray. No. 1,388,878; Aug. 30; v. 289; p. 812.
- Yoke, Draft-gear. G. C. Murray. No. 1,391,203; Sept. 20; v. 290; p. 485.
- Yoke, Pulverizer-mill. E. H. Dimler. No. 1,390,431; Sept. 13; v. 290; p. 266.
- Yoke, Temper-screw. V. W. Moyer. No. 1,397,595; Nov. 22.
- Yokes, Manufacture of drawbar. H. T. Anderson. No. 1,401,748; Dec. 27.
- Zero-setting mechanism. N. White. No. 1,396,612; Nov. 8.
- Zinc-bearing solutions, Purification of. A. E. Hall. No. 1,380,712; June 7; v. 287; p. 74.
- Zinc chloride, Producing. P. Danckwardt. No. 1,378,219; May 17; v. 286; p. 461.
- Zinc, Electrolytic production of. A. E. Hall. No. 1,380,711; June 7; v. 287; p. 73.
- Zinc, Extraction of. F. E. Lee, A. L. McCallum, and S. G. Blaylock. No. 1,399,020; Dec. 6.
- Zinc oxid, Manufacturing of. W. L. Coursen. No. 1,372,486; Mar. 22; v. 284; p. 688.
- Zinc, Production of. C. E. Cornelius. No. 1,398,006; Nov. 22.
- Zinc solutions, Purification of. S. Field. No. 1,382,494; June 21; v. 287; p. 523.
- Zinc sulfid, Manufacture of. P. Comment. No. 1,374,435; Apr. 12; v. 285; p. 246.
- Zinc, Treatment of lixiviation-residue. R. L. Lloyd. No. 1,378,822; May 17; v. 286; p. 576.
- Zirconium and iron, Alloying. R. H. McKee. Nos. 1,401,266-7; Dec. 27.
- Zirconium steel, Producing. H. C. Sicard. No. 1,374,038; Apr. 5; v. 285; p. 128.
- Zither, Inverted keyed. H. A. Ballard. No. 1,376,738; May 3; v. 286; p. 67.
- Zone, Mechanically-operated safety. C. Gore. No. 1,394,003; Oct. 18.

## ALPHABETICAL LIST OF DESIGNS.

- Advertising device. F. Merriman. No. 59,253; Oct. 4.
- Advertising device. H. Morris. No. 60,054; Dec. 20.
- Advertising device. F. L. Steeg. No. 58,837; Aug. 30; v. 289; p. 980.
- Advertising device and revolving stand, Combined. B. F. Burns. No. 60,083; Dec. 27.
- Advertising display device. F. P. Connolly. No. 58,137; June 14; v. 287; p. 354.
- Advertising novelty. C. H. Forbell. No. 60,019; Dec. 20.
- Advertising-sign. J. T. Aultman. No. 59,055; Sept. 20; v. 290; p. 578.
- Aeroplane, Amusement. R. N. Anderson. No. 58,056; June 7; v. 287; p. 150.
- Aeroplane-body. L. Hinz. No. 58,233; June 28; v. 287; p. 731.
- Agitating machine. Liquid-. C. A. Rietz. No. 59,683; Nov. 15.
- Air-compressor casing. E. H. Steedman. No. 60,066; Dec. 20.
- Amalgam carrier and plugger. G. Holtz. No. 57,434; Mar. 29; v. 284; p. 912.
- Ampul. J. L. Robinson. No. 58,687; Aug. 9; v. 289; p. 373.
- Amulet. S. Wasilow. No. 56,901; Jan. 4; v. 282; p. 168.
- Amusement device. C. E. Frost. No. 59,582; Nov. 8.
- Animal figure. J. S. Gledhill and W. H. Smith. No. 59,470; Oct. 25.
- Anklet. R. T. Drager. No. 58,893; Sept. 6; v. 290; p. 147.
- Anklets. C. Tweedie. Nos. 59,044-6; Sept. 13; v. 290; p. 389.
- Anvil. J. Sheever. No. 60,064; Dec. 20.
- Apparel or article of similar nature, Appliqué trimming for wearing-. O. E. Maul. No. 57,537; Apr. 12; v. 285; p. 345.
- Apparel, Trimming for ladies' wearing-. S. Neillinger. Nos. 59,856-9; Nov. 29.
- Apparel, Trimming for wearing-. F. J. Keil. Nos. 58,576-8; Aug. 2; v. 289; p. 133.
- Apron. M. M. Burke. No. 58,993; Sept. 13; v. 290; p. 379.
- Apron. I. B. Keller. No. 58,579; Aug. 2; v. 289; p. 133.
- Apron. G. Pfeffer. No. 57,992; May 24; v. 286; p. 803.
- Apron. T. B. Smith. No. 57,284; Mar. 8; v. 284; p. 339.
- Apron, Dress-. L. Morgan. No. 57,250; Mar. 8; v. 284; p. 332.
- Apron, Garden-. J. Berenzweig. Nos. 57,199-200; Mar. 8; v. 284; p. 324.
- Apron, Garden-. J. Berenzweig. No. 57,305; Mar. 15; v. 284; p. 540.
- Article of manufacture. M. D. Adler. No. 56,957; Jan. 25; v. 282; p. 684.
- Article of manufacture. E. Coste. No. 56,859; Jan. 4; v. 282; p. 160.
- Article of manufacture. J. P. Hartnett. Nos. 57,969-72; May 24; v. 286; p. 799.
- Article of manufacture. A. H. Sell. No. 56,894; Jan. 4; v. 282; p. 167.
- Article of manufacture. M. Wilner. Nos. 57,291-2; Mar. 8; v. 284; p. 340.
- Article of manufacture, Surface ornamentation of an. G. H. Nevius. No. 58,161; June 14; v. 287; p. 358.
- Ash-can, garbage-can, or like receptacle. H. J. Schaffer. No. 57,156; Feb. 22; v. 283; p. 718.
- Ash-tray and cigar-holder, Combination. J. E. O'Brien. No. 57,541; Apr. 12; v. 285; p. 346.
- Ash-tray stand. L. Valenzia. No. 58,202; June 21; v. 287; p. 551.
- Astral board. M. Jacobson. No. 59,657; Nov. 15.
- Atomizer-head. T. A. De Vilbiss. No. 59,624; Nov. 15.
- Auto-coaster. E. L. Berard. No. 58,539; Aug. 2; v. 289; p. 126.
- Auto-radiator cap. L. R. Steele. No. 59,987; Dec. 13.
- Autographic register. M. C. Stern. No. 56,948; Jan. 18; v. 282; p. 537.
- Automobile. J. M. Kawanami. No. 59,359; Oct. 11.
- Automobile-body. J. E. Allen. No. 59,318; Oct. 11.
- Automobile-body. H. J. Earl. No. 58,665; Aug. 9; v. 289; p. 368.
- Automobile-body. W. A. King. No. 58,766; Aug. 30; v. 289; p. 966.
- Automobile-body. C. E. McCormick. No. 56,884; Jan. 4; v. 282; p. 164.
- Automobile-body. E. Rapattoni. Nos. 57,723-4; Apr. 26; v. 285; p. 744.
- Automobile-body. E. Rapattoni. No. 59,373; Oct. 11.
- Automobile-body. D. B. Smith. No. 57,936; May 17; v. 286; p. 588.
- Automobile-body. H. T. Thomas. No. 58,262; June 28; v. 287; p. 736.
- Automobile-body. M. C. Tunison. No. 57,800; May 3; v. 286; p. 158.
- Automobile-body. A. de Velasco. No. 57,117; Feb. 22; v. 283; p. 712.
- Automobile-body. E. F. Willer. No. 58,173; June 14; v. 287; p. 360.
- Automobile-body. A. R. Zwebell. No. 58,912; Sept. 6; v. 290; p. 150.



*Alphabetical list of designs—Continued.*

- Automobile-body molding. H. J. Earl. No. 58,664; Aug. 9; v. 289; p. 368.
- Automobile-buffer. D. L. Benton. No. 59,327; Oct. 11.
- Automobile-bumper. W. G. Cox. No. 58,718; Aug. 30; v. 289; p. 956.
- Automobile-bumper. F. G. Whittington. No. 58,005; May 24; v. 286; p. 805.
- Automobile bumper-bar. L. P. Halladay. No. 58,565; Aug. 2; v. 289; p. 131.
- Automobile-casing tread. C. E. McCormick. No. 59,245; Oct. 4.
- Automobile-curtain. R. K. Thomson. No. 57,285; Mar. 8; v. 284; p. 339.
- Automobile delivery-body. R. E. Shephard. No. 57,387; Mar. 15; v. 284; p. 554.
- Automobile direction-indicator. R. R. McDonnell. No. 57,141; Feb. 22; v. 283; p. 716.
- Automobile disk wheel. F. S. Carver. No. 58,070; June 7; v. 287; p. 152.
- Automobile-door. J. J. Foley. No. 58,734; Aug. 30; v. 289; p. 959.
- Automobile-downlight, &c., Trimming for an. A. J. Roth. No. 59,784; Nov. 22.
- Automobile-fender. W. A. King. No. 57,661; Apr. 26; v. 285; p. 733.
- Automobile-hood. T. J. Kehoe. No. 57,839; May 10; v. 286; p. 373.
- Automobile hood and radiator, Combined. L. H. Pomeroy. No. 57,722; Apr. 26; v. 285; p. 744.
- Automobile-indicator. C. A. Beardmore. No. 57,763; May 2; v. 286; p. 152.
- Automobile instrument-board. A. Ward, Jr. No. 57,026; Jan. 25; v. 282; p. 694.
- Automobile instrument-board, Instrument-mount for an. F. G. Whittington. No. 57,754; Apr. 26; v. 285; p. 749.
- Automobile license-plate. J. M. Patterson. No. 59,374; Oct. 11.
- Automobile-lock. C. Pohl. No. 56,888; Jan. 4; v. 282; p. 165.
- Automobile-panel. W. L. Pollard. Nos. 59,431-2; Oct. 18.
- Automobile parking-light. A. R. Gross. No. 57,640; Apr. 26; v. 285; p. 729.
- Automobile-radiator cap. M. Simon. No. 59,985; Dec. 13.
- Automobile-radiator core. A. Parrella. No. 59,976; Dec. 13.
- Automobile-radiator curtain-hood. C. C. Woodberry. No. 59,398; Oct. 11.
- Automobile-radiators, Nipple attachment for. R. Stirling, Jr. No. 58,952; Sept. 6; v. 290; p. 158.
- Automobile rear-sight device. H. W. Stover and B. M. Coates. No. 58,692; Aug. 9; v. 289; p. 373.
- Automobile rear signaling device. H. A. Dever. No. 58,999; Sept. 13; v. 290; p. 380.
- Automobile-seat construction. H. T. Thomas. No. 58,261; June 28; v. 287; p. 736.
- Automobile side curtain. R. K. Thomson. No. 57,746; Apr. 26; v. 285; p. 748.
- Automobile side curtain. R. K. Thomson. Nos. 57,795-7; May 3; v. 286; p. 157.
- Automobile-signal. E. E. Mullvain. No. 57,060; Feb. 1; v. 283; p. 134.
- Automobile-signal. E. E. Mullvain. No. 57,708; Apr. 26; v. 285; p. 742.
- Automobile-signal. E. E. Mullvain. No. 57,850; May 10; v. 286; p. 375.
- Automobile-signal. L. Voyer. No. 59,444; Oct. 18.
- Automobile-signal stand. C. H. Georger. No. 56,966; Jan. 25; v. 282; p. 685.
- Automobile-steering-column lock. F. C. Copeland. No. 59,580; Nov. 8.
- Automobile-steering-wheel lock. C. O. Rush. No. 59,377; Oct. 11.
- Automobile step-plate. F. H. Stanwood. Nos. 57,791-2; May 3; v. 286; pp. 156-7.
- Automobile tail-light and direction-indicator, Combination. W. P. Hammond. No. 57,523; Apr. 12; v. 285; p. 342.
- Automobile tail or signal light. W. Hendry. No. 57,648; Apr. 26; v. 285; p. 731.
- Automobile-top. L. and C. Gillig. No. 57,635; Apr. 26; v. 285; p. 729.
- Automobile-top. F. D. Gould. No. 57,041; Feb. 1; v. 283; p. 131.
- Automobile-top. W. L. Pollard. Nos. 59,429-30; Oct. 18.
- Automobile-top. H. T. Thomas. No. 58,263; June 28; v. 287; p. 736.
- Automobile-truck body. C. Hermanovich. No. 59,349; Oct. 11.
- Automobile-vehicle trailer. J. H. Labourdette. Nos. 58,917-18; Sept. 6; v. 290; p. 151.
- Automobile-wheel-hub cap. R. M. Guy. No. 57,643; Apr. 26; v. 285; p. 730.
- Automobile-wheel lock. A. W. Saegesser. No. 57,729; Apr. 26; v. 285; p. 745.
- Automobile-wheel lock. L. E. Trimm. No. 57,402; Mar. 15; v. 284; p. 557.
- Automobile window-bracket. C. F. Attwood. No. 59,320; Oct. 11.
- Automobile-window regulator, Handle construction for an. A. J. Roth. No. 59,783; Nov. 22.
- Automobiles, Emergency-tank for. W. L. Washington. No. 58,172; June 14; v. 287; p. 360.
- Automobiles, Foot-mat frame for. F. P. Livingston. No. 58,606; Aug. 2; v. 289; p. 138.
- Automobiles, Foot-scraper for. F. P. Livingston. No. 58,605; Aug. 2; v. 289; p. 138.
- Automobiles, Name-plate for. C. Squire. No. 59,386; Oct. 11.
- Automobiles, Non-skid plate for. C. B. Gibson. No. 57,898; May 17; v. 286; p. 582.
- Automobiles, Rear end signal device for. G. D. Gordon. No. 57,834; May 10; v. 286; p. 373.
- Automobiles, Signal for. L. M. Durney and H. J. Montgomery. No. 59,627; Nov. 15.
- Automobiles, Signal-light for. J. H. Weber and J. B. Sturtevant. No. 59,439; Oct. 18.
- Automobiles, Toe-plate for the running-boards of. C. C. Bergstrom. No. 59,404; Oct. 18.
- Axle-lubricating sleeve. C. H. Thompson. No. 58,049; May 31; v. 286; p. 1017.
- Baby-carriages, Body for. J. R. Craig. No. 58,549; Aug. 2; v. 289; p. 128.
- Baby-jumper. J. Reuther. No. 58,163; June 14; v. 287; p. 358.
- Badge. G. A. Desenfant. Nos. 57,516-17; Apr. 12; v. 285; p. 341.
- Badge. N. L. McGhee. No. 59,905; Dec. 6.
- Badge. E. C. McUpson. No. 58,611; Aug. 2; v. 289; p. 139.
- Badge. T. F. Miller. No. 59,668; Nov. 15.
- Badge, button, or pin. A. P. Daniel. No. 59,623; Nov. 15.
- Badge, button, pin, brooch, or emblem. L. R. Scarborough. No. 58,945; Sept. 6; v. 290; p. 157.
- Badge or button. B. I. Reed. No. 59,284; Oct. 4.
- Badge or button, Service. H. H. Hillyer. No. 59,475; Oct. 25.
- Badge or emblem. R. S. Marx. No. 59,560; Nov. 1.
- Badge or emblem. F. S. Shankland. No. 57,545; Apr. 12; v. 285; p. 346.
- Badge, pin, emblem, charm, or similar article. A. C. H. Arend. No. 58,695; Aug. 30; v. 289; p. 952.
- Badge, pin, emblem, charm, or similar article. M. A. Howard. No. 57,046; Feb. 1; v. 283; p. 131.
- Badge, pin, emblem, or similar article. A. M. Millard. No. 59,254; Oct. 4.
- Badge, pin, or button, Emblematic. A. G. Warren. No. 59,796; Nov. 22.
- Badge, watch-charm, &c. H. J. Juenemann. No. 57,349; Mar. 15; v. 284; p. 548.
- Bag-frame. E. Norman and R. A. Ames. No. 59,030; Sept. 13; v. 290; p. 386.
- Bag-top. S. G. Mandalian. No. 59,851; Nov. 29.
- Bait, Artificial. F. M. Smith. No. 59,436; Oct. 18.
- Bait, Artificial. W. A. Stolley. No. 57,871; May 10; v. 286; p. 379.
- Bait, Artificial casting. T. J. Carter. No. 57,311; Mar. 15; v. 284; p. 541.
- Bait, Surface ornamentation for artificial. H. S. Dills. No. 58,139; June 14; v. 287; p. 354.
- Bait, Surface ornamentation for the body of an artificial-minnow. C. F. Pflueger. No. 57,858; May 10; v. 286; p. 377.
- Baking-iron. E. J. Tschantz. No. 58,050; May 31; v. 286; p. 1017.
- Bank. M. B. Cusick. No. 58,550; Aug. 2; v. 289; p. 128.
- Bank. J. A. Warde. No. 57,958; May 17; v. 286; p. 591.
- Bank, Child's. G. W. Alexander. No. 58,055; June 7; v. 287; p. 150.
- Bank, Savings-. J. H. Bailey. No. 57,100; Feb. 22; v. 283; p. 709.
- Bank, Savings-. W. S. Finley. No. 59,730; Nov. 22.
- Bank, Savings-. C. Fisher. Nos. 59,733-4; Nov. 22.
- Barber's pole. W. Kavan. No. 57,987; May 24; v. 286; p. 800.
- Basin-fitting. P. Mueller. No. 57,193; Mar. 1; v. 284; p. 145.
- Basket. I. E. Loewenberg. No. 57,535; Apr. 12; v. 285; p. 344.
- Basket. E. Salazar. No. 57,730; Apr. 26; v. 285; p. 745.
- Basket. M. Szonderowski. No. 57,395; Mar. 15; v. 284; p. 556.
- Basket. R. Walter. Nos. 59,695-6; Nov. 15.
- Basket. R. and R. P., Jr., Walter. No. 59,697; Nov. 15.
- Basket. L. Yen. No. 60,119; Dec. 27.
- Basket, Salt and pepper. R. E. Harris and R. L. Chance. No. 58,229; June 28; v. 287; p. 730.
- Basket, Waste-. W. F. Scranton. No. 58,258; June 28; v. 287; p. 736.
- Basket, Waste-. C. W. Sutton. No. 60,070; Dec. 20.
- Bath-mitten. C. Neugebauer. No. 58,930; Sept. 6; v. 290; p. 154.
- Bathing-cap. G. K. Guinzburg. No. 57,642; Apr. 26; v. 285; p. 730.
- Bathtub. J. J. Jones. No. 56,879; Jan. 4; v. 282; p. 163.
- Batteries, Holddown-plate for. P. E. Norris. No. 59,028; Sept. 13; v. 290; p. 386.
- Batteries, Woven-glass separator for. M. Hartenheim. No. 56,923; Jan. 18; v. 282; p. 532.
- Battery-case. E. Davis and W. E. Holland. No. 59,200; Oct. 4.
- Battery-connector. G. E. Lundberg. No. 58,675; Aug. 9; v. 289; p. 370.
- Battery terminal, Storage-. P. M. Marko. No. 59,021; Sept. 13; v. 290; p. 384.
- Battery-tester. J. K. Elderkin. No. 59,629; Nov. 15.
- Bean-pot and cover. J. Beiswanger. (Reissue.) No. 15,056; Mar. 8; v. 284; p. 322.



- Beard-softener. C. S. Finney. No. 57,628; Apr. 26; v. 285; p. 727.
- Bed. R. C. East. No. 58,140; June 14; v. 287; p. 354.
- Bed and settee, Combined. A. I. Joynes. No. 58,387; July 12; v. 288; p. 378.
- Bed-cover retainer. D. B. Humbird. No. 59,961; Dec. 13.
- Bed-spring. J. L. Moore. No. 58,158; June 14; v. 287; p. 358.
- Bedpan. V. Loewenberg. No. 57,430; Mar. 29; v. 284; p. 913.
- Bedstead end. W. Papoll. No. 57,927; May 17; v. 286; p. 586.
- Bedstead end. C. A. Stuart. No. 56,900; Jan. 4; v. 282; p. 168.
- Bedstead end frame. F. Anderson. Nos. 59,572-3; Nov. 8.
- Bedstead end frames, Grille for. C. A. Stuart. No. 59,789; Nov. 22.
- Bedstead-frame. C. A. Stuart. Nos. 59,609-10; Nov. 8.
- Bedstead-frames, Grille for. C. A. Stuart. No. 59,608; Nov. 8.
- Bench, Double. L. G. Haase. No. 57,644; Apr. 26; v. 285; p. 730.
- Beverage-dispenser. F. W. and C. L. Holderle. No. 59,652; Nov. 15.
- Beverage-dispensing apparatus. J. M. Travis. No. 57,949; May 17; v. 286; p. 590.
- Beverage-dispensing apparatus. J. M. Travis. No. 59,043; Sept. 13; v. 290; p. 389.
- Beverage-dispensing apparatus. J. M. Travis. Nos. 59,136-8; Sept. 20; v. 290; p. 595.
- Beverages, Dispensing-cooler for. A. G. Richardson and W. J. Atwood. No. 57,095; Feb. 8; v. 283; p. 326.
- Bezel. A. S. Alexander. Nos. 58,126-8; June 14; v. 287; p. 352.
- Bezel or similar device. F. W. Walker. No. 57,876; May 10; v. 286; p. 380.
- Bicycle-pedal. R. S. Heise. No. 57,901; May 17; v. 286; p. 582.
- Bill-board, Miniature. W. E. Telling. No. 57,484; Apr. 5; v. 285; p. 158.
- Bill-board, Miniature. W. E. Telling. No. 57,485; Apr. 5; v. 285; p. 158.
- Billiard-table rail. W. Conama. No. 58,715; Aug. 30; v. 289; p. 955.
- Blouse, Child's. P. B. Hannaford. No. 59,005; Sept. 13; v. 290; p. 381.
- Blouse, Woman's. A. H. Flanders. No. 57,220; Mar. 8; v. 284; p. 327.
- Boat-hull. J. E. Langstaff. No. 58,033; May 31; v. 286; p. 1014.
- Boiler, Aluminum double. H. A. Church. No. 59,192; Oct. 4.
- Boiler unit, Finned tubular. W. L. Six. No. 59,690; Nov. 15.
- Boilers, Preheating-chamber for domestic. L. V. Gelder. No. 58,023; May 31; v. 286; p. 1013.
- Bolt. H. V. Gill. No. 59,346; Oct. 11.
- Bonnet. K. M. Polhamus. No. 59,032; Sept. 13; v. 290; p. 387.
- Bonnet, Motor. J. J. Kelly. No. 59,897; Dec. 6.
- Book, Loose-leaf. F. C. Skiles. No. 59,606; Nov. 8.
- Bookcover and bookmark, Combination. B. Raff. No. 59,773; Nov. 22.
- Bookrack. H. H. Febrey. No. 60,017; Dec. 20.
- Boot-top. C. Tweedle. Nos. 59,047-8; Sept. 13; v. 290; p. 390.
- Boots, shoes, &c., Sole for. F. C. Lloyd. No. 59,849; Nov. 29.
- Bootee, Baby. E. A. Wagner. No. 57,288; Mar. 8; v. 284; p. 339.
- Booth. P. M. Busick. No. 58,423; July 19; v. 288; p. 566.
- Boring-machine frame. E. B. Teeple. No. 57,999; May 24; v. 286; p. 803.
- Bottle. H. C. Anderson. No. 58,203; June 28; v. 287; p. 726.
- Bottle. E. E. Baker. No. 60,081; Dec. 27.
- Bottle. E. Duke. No. 59,071; Sept. 20; v. 290; p. 581.
- Bottle. E. Eckl. No. 58,077; June 7; v. 287; p. 153.
- Bottle. A. F. Kammer. No. 60,098; Dec. 27.
- Bottle. C. King. No. 57,979; May 24; v. 286; p. 801.
- Bottle. W. W. Lewis. No. 56,983; Jan. 25; v. 282; p. 688.
- Bottle. R. J. Maurer. No. 57,695; Apr. 26; v. 285; p. 739.
- Bottle. J. J. Mojonner. No. 57,479; Apr. 5; v. 285; p. 157.
- Bottle. L. B. Newell. No. 59,767; Nov. 22.
- Bottle. S. Ohki. No. 57,147; Feb. 22; v. 283; p. 717.
- Bottle. F. W. Schwenck. No. 57,867; May 10; v. 286; p. 379.
- Bottle. M. G. Vidulich. No. 59,309; Oct. 4.
- Bottle. V. Vivaudou. No. 59,994; Dec. 13.
- Bottle. T. C. Wheaton, Jr. No. 58,121; June 7; v. 287; p. 161.
- Bottle. S. J. Wood. No. 58,174; June 14; v. 287; p. 360.
- Bottle-cap. G. W. Goodridge. No. 58,671; Aug. 9; v. 289; p. 369.
- Bottle-cap remover, Milk. E. H. Foote. No. 59,645; Nov. 15.
- Bow-clasp or similar article. H. Wellen. No. 59,050; Sept. 13; v. 290; p. 390.
- Bottle-holder. W. T. Bradshaw and A. J. Bond. No. 58,014; May 31; v. 286; p. 1011.
- Bottle, Hot-water. J. H. Cadogan. No. 56,857; Jan. 4; v. 282; p. 159.
- Bottle-opener and door-lock, Combined. O. E. Bennett. No. 59,403; Oct. 18.
- Bottle opener, Milk. B. Biehl, Sr. No. 60,009; Dec. 20.
- Bottle or container. M. O. Haworth-Booth. No. 58,090; June 7; v. 287; p. 155.
- Bottle protecting and carrying device. H. Lauzon. No. 59,662; Nov. 15.
- Bottle-stop remover, Milk. T. W. Saul. No. 59,378; Oct. 11.
- Bottle-stopper. J. P. Casey. No. 59,187; Oct. 4.
- Bottle-surface. A. J. Knowles. No. 57,438; Mar. 29; v. 284; p. 913.
- Bottle-surface. A. J. Knowles. No. 57,672; Apr. 26; v. 285; p. 735.
- Bow-holder. E. E. Hamilton. No. 59,471; Oct. 25.
- Bowl. A. J. Sanford. Nos. 58,832-3; Aug. 30; v. 289; p. 979.
- Bowl, Fruit. H. and L. Farber. No. 56,861; Jan. 4; v. 282; p. 160.
- Bowl or similar article. G. Haviland. No. 59,218; Oct. 4.
- Box. L. H. Heimerdinger. No. 57,337; Mar. 15; v. 284; p. 546.
- Box and flour-bin or similar article, Combined bread. P. G. Lucas, Jr. No. 59,499; Oct. 25.
- Box-cover. M. H. Connor. No. 56,968; Jan. 25; v. 282; p. 685.
- Box-cover. E. I. Heymann. No. 57,902; May 17; v. 286; p. 582.
- Box or container. G. B. Scott. No. 59,290; Oct. 4.
- Boxes, Handhole-cover for. J. Januchowsky. No. 57,477; Apr. 5; v. 285; p. 157.
- Bracelet. J. Megar. No. 59,764; Nov. 22.
- Bracelet. L. D. Miller. No. 57,180; Feb. 22; v. 283; p. 722.
- Bracelet. E. H. Miller. No. 57,702; Apr. 26; v. 285; p. 741.
- Bracelet. L. Palliser. No. 57,991; May 24; v. 286; p. 802.
- Bracelet, napkin-ring. R. Sturm. No. 58,409; July 12; v. 288; p. 382.
- Bracelet, Watch. S. Lederer. No. 59,972; Dec. 13.
- Bracket. M. Klein. Nos. 57,355-6; Mar. 15; v. 284; p. 549.
- Bracket. A. L. Van Veen. No. 57,287; Mar. 8; v. 284; p. 339.
- Bracket for lighting means. F. M. Poritz. Nos. 57,787-8; May 3; v. 286; p. 156.
- Braid. L. Adlman. No. 59,532; Nov. 1.
- Bramble-bird. H. H. Fawk. No. 56,962; Jan. 25; v. 282; p. 684.
- Brassiere. W. E. Pruzan. No. 59,772; Nov. 22.
- Brassiere-girdle, Combination. F. L. Bannhr. No. 59,574; Nov. 8.
- Breastpin or badge. O. R. Rose. No. 58,450; July 19; v. 288; p. 572.
- Brick, facing. J. H. Mitchell. No. 57,368; Mar. 15; v. 284; p. 551.
- Brocade fabric. J. H. Bunting. No. 58,459; July 26; v. 288; p. 768.
- Brooch. B. B. Gunnoe. No. 58,564; Aug. 2; v. 289; p. 131.
- Brooch. B. M. West. No. 59,799; Nov. 22.
- Brooder-heater. Moisture-tank for a. M. C. Baron. No. 57,572; Apr. 26; v. 285; p. 717.
- Brooder-hood. M. C. Baron. No. 57,573; Apr. 26; v. 285; p. 715.
- Brooms and kindred articles, Handle-cap for whisk-. A. C. Recker. No. 59,925; Dec. 6.
- Brush. J. F. and M. O. Quimby. No. 60,107; Dec. 27.
- Brush and broom holder. M. F. Dennis. No. 58,724; Aug. 30; v. 289; p. 957.
- Brush or mirror rack. H. D. Mosauer. No. 58,678; Aug. 9; v. 289; p. 371.
- Brush or similar article, Hair. L. A. Samstag. No. 57,154; Feb. 22; v. 283; p. 713.
- Buckle. L. H. Fishel. Nos. 59,633-5; Nov. 15.
- Buckle. L. Hauser. No. 58,480; July 26; v. 288; p. 772.
- Buckle. J. B. Robinson. No. 56,993; Jan. 25; v. 282; p. 690.
- Buckle and locket, Combination belt. I. Anderson. No. 58,204; June 28; v. 287; p. 726.
- Buckle, Belt. W. J. Nelson. No. 59,860; Nov. 29.
- Buckle, Duplex. J. Miller. No. 59,766; Nov. 22.
- Buckle, Repair. W. E. Dempsey. No. 57,591; Apr. 26; v. 285; p. 720.
- Buckle, Suspender. J. Press. No. 56,944; Jan. 18; v. 282; p. 536.
- Building-block. H. E. Clouser and E. R. Thornton. No. 58,660; Aug. 9; v. 289; p. 367.
- Building-blocks, Box for a set of. B. Reichenbach. No. 58,940; Sept. 6; v. 290; p. 156.
- Bulb, Suction. A. E. Fraass. No. 59,646; Nov. 15.
- Bumper. J. W. Simmons. No. 57,734; Apr. 26; v. 285; p. 746.
- Bumper, Automobile. E. R. Jones. No. 57,777; May 3; v. 286; p. 154.
- Bumper-bar. R. T. Newton. No. 57,712; Apr. 26; v. 285; p. 742.
- Butter-cutting gage. F. Sprader. No. 59,691; Nov. 15.
- Button. P. Caspary. No. 59,539; Nov. 1.



*Alphabetical list of designs—Continued.*

- Button. M. C. Damon. No. 57,825; May 10; v. 286; p. 371.
- Button. G. E. Feagans. No. 59,206; Oct. 4.
- Button. J. Fox. No. 57,324; Mar. 15; v. 284; p. 544.
- Button. J. Fox. No. 57,629; Apr. 26; v. 285; p. 727.
- Button. W. W. Hobe. Nos. 58,484-6; July 26; v. 288; pp. 773-4.
- Button. R. Kuno. Nos. 58,773-5; Aug. 30; v. 289; p. 967.
- Button. A. M. Lisby. No. 58,921; Sept. 6; v. 290; p. 152.
- Button. A. M. Turkeltaub. Nos. 57,450-5; Mar. 29; v. 284; p. 915.
- Button anchor, Lapel-. W. Fischer. No. 59,732; Nov. 22.
- Button, badge, banner, or similar article. G. L. Ellert, Jr. No. 57,215; Mar. 8; v. 284; p. 326.
- Button, badge, or pin. G. Walter. No. 58,649; Aug. 2; v. 289; p. 146.
- Button, badge, or similar article. I. Smith. No. 58,949; Sept. 6; v. 290; p. 157.
- Button. Cuff-. J. H. Oster. No. 59,372; Oct. 11.
- Button. Memorial. G. H. Boeger and J. L. Campbell. No. 58,706; Aug. 30; v. 289; p. 954.
- Button. Military-service. J. H. Geary. No. 58,311; July 12; v. 288; p. 360.
- Button or badge. F. A. Thill. No. 58,642; Aug. 2; v. 289; p. 145.
- Cabinet. C. A. Cooley. No. 57,769; May 3; v. 286; p. 153.
- Cabinet. A. Kalenborn. No. 59,357; Oct. 11.
- Cabinet. E. P. Kellogg. No. 59,600; Nov. 8.
- Cabinet. L. B. Parker. No. 59,676; Nov. 15.
- Cabinet, Advertising-. W. M. Wade. No. 58,844; Aug. 30; v. 289; p. 981.
- Cabinet and standard for X-ray apparatus, Combined. O. H. and A. F. Pieper. No. 60,104; Dec. 27.
- Cabinet, Coal-. B. Campbell. No. 58,995; Sept. 13; v. 290; p. 380.
- Cabinet, Cookie-. J. B. Cooke. No. 56,958; Jan. 25; v. 282; p. 684.
- Cabinet, Cork-. H. Copeland. No. 58,071; June 7; v. 287; p. 152.
- Cabinet, Cutlery-. J. H. Lickert. No. 58,293; July 5; v. 288; p. 165.
- Cabinet, Directory-. S. L. Marsh. No. 58,245; June 28; v. 287; p. 733.
- Cabinet, Dispensing-. L. S. Paletou. No. 59,862; Nov. 29.
- Cabinet, Display-. H. Morris. Nos. 60,052-3; Dec. 20.
- Cabinet, Electric-welder. S. M. Harvey. No. 58,230; June 28; v. 287; p. 731.
- Cabinet for X-ray unit. G. B. Coleman. No. 58,216; June 28; v. 287; p. 728.
- Cabinet, Kitchen-. E. S. Sutton. No. 59,041; Sept. 13; v. 290; p. 389.
- Cabinet, Phonograph-. H. Knaub. No. 58,031; May 31; v. 286; p. 1014.
- Cabinet, Phonograph-. M. W. Mix. No. 58,156; June 14; v. 287; p. 357.
- Cabinet, Phonograph-. A. T. Mowitz. No. 58,250; June 28; v. 287; p. 734.
- Cabinet, Phonograph-. S. K. Ouzoun-Boghossian. No. 58,499; July 26; v. 288; p. 777.
- Cabinet, Phonograph-. C. T. Wittstein. No. 57,459; Mar. 29; v. 284; p. 917.
- Cabinet, Shaving-. M. Jurek. No. 59,967; Dec. 13.
- Cabinet, Vending. J. I. Holcomb and J. F. Hoke, Jr. No. 59,006; Sept. 13; v. 290; p. 381.
- Caddie-bag. B. R. Hunt. No. 57,526; Apr. 12; v. 285; p. 343.
- Calendar holder, Pad-. H. Haupt. No. 57,227; Mar. 8; v. 284; p. 329.
- Calendar-mount. E. E. Lion. No. 59,241; Oct. 4.
- Calendar-stand base. R. H. Baxter. No. 58,867; Sept. 6; v. 290; p. 141.
- Can. I. C. Popper. No. 58,628; Aug. 2; v. 289; p. 142.
- Can. Oil-. L. O. Brown. No. 59,407; Oct. 18.
- Can-opener. H. S. Earle. No. 57,321; Mar. 15; v. 284; p. 543.
- Can-opener. H. Till. No. 57,798; May 3; v. 286; p. 157.
- Can or similar receptacle, Sifter-top. M. H. Connor. No. 57,312; Mar. 15; v. 284; p. 542.
- Can or similar receptacle, Sifter-top. W. H. Green. Nos. 59,583-7; Nov. 8.
- Can-tester. H. Rabbazana. No. 58,684; Aug. 9; v. 289; p. 372.
- Canning-knife. J. H. Lickert. No. 57,684; Apr. 26; v. 285; p. 737.
- Candle-cup. H. T. Howell. No. 60,028; Dec. 20.
- Candle-holder. L. V. Lavell. No. 57,920; May 17; v. 286; p. 585.
- Candle-plate. M. Klein. No. 59,661; Nov. 15.
- Candlestick. F. H. La Pierre. No. 59,238; Oct. 4.
- Candy. C. Masconi. No. 59,760; Nov. 22.
- Candy. G. H. Pappas. No. 59,863; Nov. 29.
- Candy, Block of. J. S. Auerbach. No. 57,298; Mar. 15; v. 284; p. 539.
- Candy-box. C. E. Price. No. 58,449; July 19; v. 288; p. 571.
- Candy-box. B. M. Tait. No. 58,954; Sept. 6; v. 290; p. 158.
- Candy-container. C. H. Steere. No. 58,165; June 14; v. 287; p. 859.
- Candy-display box. F. H. Roberts. No. 56,992; Jan. 25; v. 282; p. 689.
- Candy known as bonny bonnet pops, Paper-wrapped. W. Steel. No. 59,692; Nov. 15.
- Candy or cake confection, Edible. R. Vesely. No. 59,993; Dec. 13.
- Candy-package. A. Rozowsky. No. 57,864; May 10; v. 286; p. 378.
- Candy, Package containing. A. G. Kilgore. No. 59,601; Nov. 8.
- Canopy. M. Klein. No. 57,919; May 17; v. 286; p. 585.
- Cap. K. L. Bartholomew. Nos. 58,302-3; July 12; v. 288; pp. 358-9.
- Cap. W. I. Crum. No. 58,306; July 12; v. 288; p. 359.
- Cap. L. H. Ensten. No. 59,464; Oct. 25.
- Cap. A. S. Jeffries. No. 58,384; July 12; v. 288; p. 378.
- Cap for talcum-powder boxes. J. M. Hothersall. Nos. 58,417-18; July 12; v. 288; p. 384.
- Cap. B. Podolsky. No. 59,512; Oct. 25.
- Cap. H. Waldbaum. No. 59,528; Oct. 25.
- Cap, Knitted. S. Rosenberg. No. 58,402; July 12; v. 288; p. 381.
- Car, Amusement-. J. J. Stock. No. 58,115; June 7; v. 287; p. 160.
- Car, Automobile service-. M. T. Kresteller. No. 57,675; Apr. 26; v. 285; p. 736.
- Car-check holder. H. J. Guymon. No. 58,227; June 28; v. 287; p. 730.
- Car for children, Foot-propelled. T. Cannavaro. No. 58,068; June 7; v. 287; p. 152.
- Car, Kiddie-. H. C. Hebig. No. 58,750; Aug. 30; v. 289; p. 962.
- Car, Play-. J. K. Tully. No. 60,072; Dec. 20.
- Carafe, Vacuum-jacketed. H. L. Heisler. No. 58,091; June 7; v. 287; p. 156.
- Carbon-holder. H. D. Regar. No. 58,162; June 14; v. 287; p. 358.
- Carbureter body or casing. C. E. Johnson. No. 57,659; Apr. 26; v. 285; p. 733.
- Card, Display-. C. F. Farnham. No. 59,955; Dec. 13.
- Card, Display-. S. Sampson. No. 58,631; Aug. 2; v. 289; p. 143.
- Card or similar article, Display show-. W. G. Flint. No. 56,862; Jan. 4; v. 282; p. 160.
- Card, Playing-. J. C. Gaffney. No. 57,325; Mar. 15; v. 284; p. 544.
- Card, Playing-. R. E. Samuel. No. 57,994; May 24; v. 286; p. 803.
- Card, Sealed postal. S. Stefanko. No. 58,637; Aug. 2; v. 289; p. 144.
- Cards, Pack of playing-. J. J. Laver. No. 59,757; Nov. 22.
- Cards, Pack of playing-. G. L. McCarthy. No. 59,761; Nov. 22.
- Cards, Playing-. V. F. Richter. No. 56,889; Jan. 4; v. 282; p. 165.
- Cards, Set of alphabet-. C. Moore. No. 56,985; Jan. 25; v. 282; p. 688.
- Cards, Set of playing-. C. K. Frederick. No. 57,896; May 17; v. 286; p. 581.
- Carpet. P. Kuzmjak. No. 56,978; Jan. 25; v. 282; p. 687.
- Carpet. H. L. Thompson. No. 58,840; Aug. 30; v. 289; p. 981.
- Carriage, Collapsible baby-. M. S. Dunkelberger. No. 57,773; May 3; v. 286; p. 153.
- Carton, Medicine-. E. E. Leeper. No. 58,919; Sept. 6; v. 290; p. 152.
- Case having compartments for stationery supplies, Portable. E. C. Peterke. No. 59,270; Oct. 4.
- Cash-register. F. L. Fuller. No. 59,735; Nov. 22.
- Cash-resigter. C. J. Sundstrand. No. 57,742; Apr. 26; v. 285; p. 747.
- Casket, Burial-. F. E. Hollins. No. 59,225; Oct. 4.
- Casket, Beauty-cream. M. Ubelmann. No. 57,954; May 17; v. 286; p. 591.
- Casket-handle. F. B. Aston. No. 59,946; Dec. 13.
- Casserole. H. and L. Farber. No. 56,914; Jan. 18; v. 282; p. 530.
- Casserole, Oval. J. Beiswanger. No. 57,183; Mar. 1; v. 284; p. 143.
- Casserole, Square. J. Beiswanger. No. 57,182; Mar. 1; v. 284; p. 143.
- Caster-wheel. W. F. Herold. No. 59,746; Nov. 22.
- Ceiling-boxes, Electrical receptacle for. P. Hartmann. No. 59,216; Oct. 4.
- Ceiling-holder. L. R. Wellman. No. 58,650; Aug. 2; v. 289; p. 146.
- Certificate, Trust-. J. E. Jones. Nos. 57,232-3. Mar. 8; v. 284; pp. 329-30.
- Chain, Antiskid cross-. A. M. Pederson and J. Murphy. No. 59,510; Oct. 25.
- Chain-clasp. W. A. Schuler. No. 57,385; Mar. 15; v. 284; p. 554.
- Chain-loop. J. C. Virden. No. 58,002; May 24; v. 286; p. 804.
- Chain ornament. K. Koztowski. No. 59,493; Oct. 25.
- Chain, Watch-. J. C. O'Brien. No. 57,146; Feb. 22; v. 283; p. 716.
- Chain, Watch-. R. Mellnik. No. 57,248; Mar. 8; v. 284; p. 332.
- Chain, Watch-. R. Van Doblan. No. 59,308; Oct. 4.
- Chair. J. H. Dodson. No. 58,554; Aug. 2; v. 289; p. 129.
- Chair. G. A. Erikson. No. 57,627; Apr. 26; v. 285; p. 727.



- Chair, R. W. Porter. No. 57,263; Mar. 8; v. 284; p. 335.  
 Chair, A. Wanner, Jr. No. 56,951; Jan. 18; v. 282; p. 537.  
 Chair, A. Wanner, Jr. No. 57,877; May 10; v. 286; p. 380.  
 Chair, U. Wilcox. No. 58,960; Sept. 6; v. 290; p. 159.  
 Chairs, Attachment for. J. L. Wilcox. No. 57,560; Apr. 12; v. 285; p. 350.  
 Chair, stool, or similar article, Metallic. F. H. Headley. Nos. 59,222-3; Oct. 4.  
 Chair, Study-. O. E. Moeser. No. 58,613; Aug. 2; v. 289; p. 139.  
 Chalk-sharpener. J. P. Phillips and N. C. Ahl. No. 56,989; Jan. 25; v. 282; p. 689.  
 Chandelier, M. Klein. Nos. 57,352-3; Mar. 15; v. 284; pp. 548-9.  
 Chandelier, M. Klein. No. 57,357; Mar. 15; v. 284; p. 549.  
 Chandelier, M. Klein. No. 57,361; Mar. 15; v. 284; p. 550.  
 Chandelier, I. Newland. Nos. 58,931-6; Sept. 6; v. 290; pp. 154-5.  
 Chandelier, F. M. Poritz. Nos. 58,104-7; June 7; v. 287; p. 158.  
 Chandelier, F. M. Poritz. Nos. 57,785-6; May 3; v. 286; pp. 155-6.  
 Chandelier-band, A. J. D. Ohm. No. 57,256; Mar. 8; v. 284; p. 337.  
 Chandelier, Electric-candle. F. A. Frerichs. No. 57,427; Mar. 29; v. 284; p. 911.  
 Chandelier, Electric-candle. F. A. Frerichs. No. 57,429; Mar. 29; v. 284; p. 912.  
 Chandelier stem and distributor, Combined. B. Newland. No. 57,710; Apr. 26; v. 285; p. 742.  
 Charm, N. Lieberfreund. No. 59,240; Oct. 4.  
 Charm, E. B. Riegel. No. 59,928; Dec. 6.  
 Charm, E. L. Weed. No. 59,529; Oct. 25.  
 Charm, E. L. Weed. No. 59,798; Nov. 22.  
 Charm, E. L. Weed. No. 59,996; Dec. 13.  
 Charm or pendant, M. L. Goldstein. No. 59,211; Oct. 4.  
 Check, Bank-. R. P. Reckards. No. 59,283; Oct. 4.  
 Check, Bank-. B. F. Stuart. No. 58,639; Aug. 2; v. 289; p. 144.  
 Checker-board and tray, Combination. A. M. Deig. No. 58,138; June 14; v. 287; p. 354.  
 Chest, F. Tockes. No. 59,614; Nov. 8.  
 Chest, Clothes-. G. E. Bergstrom. Nos. 59,057-9; Sept. 20; v. 290; pp. 578-9.  
 Chest or similar article, M. B. Lockhart. No. 57,981; May 24; v. 286; p. 801.  
 China, glass, &c., Surface decoration for. A. Martin. No. 56,984; Jan. 25; v. 282; p. 688.  
 Chisels, Plane block for. A. Turnbull. No. 57,748; Apr. 26; v. 285; p. 748.  
 Churn-dasher, N. P. Dazey. Nos. 60,015-16; Dec. 20.  
 Cigar and cigarette receiver, Combined. F. B. Schell. No. 57,276; Mar. 8; v. 284; p. 337.  
 Cigar-container, C. E. Tillman. No. 57,173; Feb. 22; v. 283; p. 721.  
 Cigar-cutter, C. E. Zapffe. No. 58,175; June 14; v. 287; p. 360.  
 Cigar-cutter and box-opener, Combination. W. Fechteler. No. 60,089; Dec. 27.  
 Cigar-lighter, E. P. Hersey. No. 57,837; May 10; v. 286; p. 373.  
 Cigarette-forming device, C. S. Branch. No. 57,581; Apr. 26; v. 285; p. 719.  
 Cigarette-holder and ash-tray, G. M. Minton. No. 58,927; Sept. 6; v. 290; p. 153.  
 Clasp, J. H. Stone. No. 60,068; Dec. 20.  
 Clasp or hook for a waist-belt, A. L. Vilander. No. 59,795; Nov. 22.  
 Cleaner for erasers, Vacuum-. W. J. Haynes, Jr. No. 60,093; Dec. 27.  
 Cleaner, Vacuum-. O. Brintzenhofe. No. 57,109; Feb. 22; v. 283; p. 710.  
 Clevis, Lazy-horse. M. Parker. No. 59,977; Dec. 13.  
 Clip, C. H. Patten and R. W. Otis. No. 59,677; Nov. 15.  
 Cloak, C. West. No. 59,571; Nov. 1.  
 Cloak and skirt, Military. K. C. Dalton. No. 58,551; Aug. 2; v. 289; p. 128.  
 Clock, Advertising-. F. R. Bussert. No. 57,310; Mar. 15; v. 284; p. 541.  
 Clock and phonograph-cabinet, Combined. S. Crimi. No. 57,892; May 17; v. 286; p. 581.  
 Clock-case, S. K. Ouzoun-Boghossian. No. 57,373; Mar. 15; v. 284; p. 562.  
 Clock-face, W. F. Maher. No. 58,444; July 19; v. 288; p. 570.  
 Clock-mount, W. J. Hoffman. No. 56,873; Jan. 4; v. 282; p. 162.  
 Clock-stand, H. J. Karp. No. 59,896; Dec. 6.  
 Cloth, C. O. Mueller. No. 59,671; Nov. 15.  
 Cloth-fastener, Bent-wire. H. McKinnie. No. 56,880; Jan. 4; v. 282; p. 163.  
 Cloth, Floor-. F. Cartwright. Nos. 57,495-503; Apr. 12; v. 285; pp. 337-9.  
 Clothes-hanger, J. C. Shannon. No. 59,688; Nov. 15.  
 Clothes-lifting stick, N. T. Thornton and E. C. Dunn. No. 59,613; Nov. 8.  
 Clothes-stick head, J. A. Busch. No. 57,112; Feb. 22; v. 283; p. 711.  
 Clothes-tree, D. Schmeidler. No. 57,382; Mar. 15; v. 284; p. 554.  
 Clothes-wringer frame, H. O. Bartlett. No. 58,010; May 31; v. 286; p. 1010.  
 Clothesline-holder, F. T. Murray. No. 59,427; Oct. 18.  
 Clothespin, H. White. No. 59,445; Oct. 18.  
 Coal-bin, A. Spence. No. 57,869; May 10; v. 286; p. 379.  
 Coaster, Child's. M. B. Nelson. No. 56,987; Jan. 25; v. 282; p. 689.  
 Coaster, Steering-post and wheel for a. L. C. Williams. No. 59,944; Dec. 6.  
 Coat, Child's. A. W. Ellsworth. No. 57,322; Mar. 15; v. 284; p. 543.  
 Cobbler's tool, G. Constantino. No. 58,717; Aug. 30; v. 289; p. 956.  
 Cock, Bath-. M. W. Wuesthoff. No. 59,399; Oct. 11.  
 Coffin, A. Haladey and J. Wröbel. No. 60,092; Dec. 27.  
 Coin and fare holder, J. J. Szepe. No. 59,791; Nov. 22.  
 Coin-collector, J. A. Hensey. No. 57,042; Feb. 1; v. 283; p. 131.  
 Coin or token, S. P. Foltz. No. 60,018; Dec. 20.  
 Coin or token, D. W. Hollister. No. 60,024; Dec. 20.  
 Collar, C. Charles. No. 59,711; Nov. 22.  
 Collar-clasp, F. B. Byers. Nos. 59,408-9; Oct. 18.  
 Collar-clasp or similar article, P. E. Wiberg. No. 58,123; June 7; v. 287; p. 161.  
 Collar clasp, Soft-. H. Kapotkin. No. 59,009; Sept. 13; v. 290; p. 382.  
 Collar, Embroidered lace, H. Schwarber. No. 57,019; Jan. 25; v. 282; p. 693.  
 Collar-fastener, W. E. Field. No. 58,733; Aug. 30; v. 289; p. 959.  
 Collar-fastener, S. L. Gedney. No. 58,744; Aug. 30; v. 289; p. 961.  
 Collar fastener, Soft-. S. Plummer. No. 57,721; Apr. 26; v. 285; p. 744.  
 Collar-holder, L. E. Baer. No. 58,129; June 14; v. 287; p. 353.  
 Collar-holder, A. D. Crosby. No. 58,073; June 7; v. 287; p. 153.  
 Collar-holder, W. E. Kennison. No. 57,660; Apr. 26; v. 285; p. 733.  
 Collar-holder, H. C. Llufrío. No. 58,786; Aug. 30; v. 289; p. 970.  
 Collar-holder, R. K. and F. S. Maker. No. 57,694; Apr. 26; v. 285; p. 739.  
 Collar-holder, A. J. Newton. No. 57,711; Apr. 26; v. 285; p. 742.  
 Collar-holder, A. J. Newton. No. 58,100; June 7; v. 287; p. 157.  
 Collar-holder, E. I. Rogers, Jr. No. 57,863; May 10; v. 286; p. 378.  
 Collar-holder, C. Silverman. No. 58,295; July 5; v. 288; p. 165.  
 Collar-holding device, C. A. Dye. No. 58,220; June 28; v. 287; p. 729.  
 Collar, Horse-. M. Dykas. No. 59,826; Nov. 29.  
 Collar-link, R. W. Johnson. No. 58,237; June 28; v. 287; p. 732.  
 Collar-pin, A. M. Dutcher. No. 59,463; Oct. 25.  
 Color-mixer, C. D. Upton. No. 57,955; May 17; v. 286; p. 591.  
 Comb, B. J. Foster. No. 58,474; July 26; v. 288; p. 771.  
 Comb, H. D. Mosauer. No. 58,680; Aug. 9; v. 289; p. 371.  
 Comb, H. A. Shaw. No. 57,020; Jan. 25; v. 282; p. 693.  
 Comb and brush holder, A. P. Polanchych. No. 59,280; Oct. 4.  
 Comb-cleaning device, L. Spak. No. 57,737; Apr. 26; v. 285; p. 747.  
 Combination-tool, V. R. Helin. No. 58,482; July 26; v. 283; p. 773.  
 Compote, H. and L. Farber. No. 56,961; Jan. 25; v. 282; p. 684.  
 Compressors and motors, Housing for electric air, S. D. Black and A. G. Decker. No. 57,812; May 10; v. 286; p. 369.  
 Computing apparatus, N. A. Shipherd. No. 59,381; Oct. 11.  
 Condenser and freezer, Casing for a combined, J. M. Larsen. No. 57,137; Feb. 22; v. 283; p. 715.  
 Condiment-holder, L. Layne. No. 59,758; Nov. 22.  
 Condiment-shaker, M. McCarthy. No. 57,848; May 10; v. 286; p. 375.  
 Conduit-bushing, H. S. Walker. No. 57,407; Mar. 15; v. 284; p. 558.  
 Confectionery or chewing-gum unit, G. H. Paine. No. 58,042; May 31; v. 286; p. 1016.  
 Container, H. Senften. No. 58,689; Aug. 9; v. 289; p. 373.  
 Container, V. Vivaudou. No. 57,488; Apr. 5; v. 285; p. 158.  
 Container for fruit syrup, flavoring extracts, and fruit acids, Combination tube, S. L. Crawford. No. 57,588; Apr. 26; v. 285; p. 720.  
 Cooker casing and electrical hot-plate, Combined fireless, J. H. Reichart. No. 57,266; Mar. 8; v. 284; p. 336.  
 Cooker, Pressure-. T. V. Connor. No. 58,662; Aug. 9; v. 289; p. 368.  
 Corner member and leg, C. H. Gudegast. No. 58,225; June 28; v. 287; p. 730.  
 Corset, A. S. Becker. No. 59,537; Nov. 1.  
 Cosmetic-bottle and massage device, J. O. Linden. No. 57,364; Mar. 15; v. 284; p. 550.



*Alphabetical list of designs—Continued.*

- Costume. C. B. McKinley. No. 58,447; July 19; v. 288; p. 571.
- Costume, Lady's sport-. L. J. Carleton. No. 58,544; Aug. 2; v. 289; p. 126.
- Costumer. R. C. East. No. 59,886; Dec. 6.
- Cotter-pin puller. C. O. Anderson. No. 58,453; July 26; v. 288; p. 767.
- Coupon. R. E. Hall, Jr. No. 59,890; Dec. 6.
- Cover. S. Geisman. No. 58,562; Aug. 2; v. 289; p. 130.
- Cradle. R. C. East. No. 58,141; June 14; v. 287; p. 355.
- Crank-case arm. T. F. Wilson. No. 59,397; Oct. 11.
- Crank-case-repair arm. W. F. Hudson. No. 57,047; Feb. 1; v. 283; p. 132.
- Cravat-holder. J. A. Mariner. No. 58,094; June 7; v. 287; p. 156.
- Crock, Buttermilk-. D. O. Brant. No. 57,580; Apr. 26; v. 285; p. 719.
- Crockery and chinaware. R. E. Stuart. Nos. 59,038-9; Sept. 13; v. 290; p. 388.
- Crucifix, candlestick, or similar article, Base for a. C. S. Mosman. Nos. 58,809-14; Aug. 30; v. 289; pp. 975-6.
- Crumbling implement. W. J. Hines. No. 58,232; June 28; v. 287; p. 731.
- Cultivator. C. S. McCarthy, Jr. No. 58,195; June 21; v. 287; p. 549.
- Cup. F. J. Kristofek. No. 57,844; May 10; v. 286; p. 374.
- Cup or similar article. G. Haviland. No. 59,219; Oct. 4.
- Cup, Loving-. K. H. Ober. No. 59,507; Oct. 25.
- Cup, trophy, or article of similar nature. A. Johnson. No. 57,130; Feb. 22; v. 283; p. 714.
- Current-tap. R. B. Benjamin. No. 57,104; Feb. 22; v. 283; p. 710.
- Curtain and shade hanger. S. Lojewski. No. 60,046; Dec. 20.
- Curtain-fitting. E. L. Wilson. No. 59,998; Dec. 13.
- Curtain-hanger. A. Bielecka. No. 57,201; Mar. 8; v. 284; p. 324.
- Curtain-pole bracket. N. Cimino. No. 57,817; May 10; v. 286; p. 370.
- Curtain-rod holder. L. G. Strnad. No. 57,740; Apr. 26; v. 285; p. 747.
- Cushion, Seat-. E. E. Marsh. No. 59,900; Dec. 6.
- Cut-out ring. H. T. Howell. No. 60,027; Dec. 20.
- Cutlery article, Combination. S. G. Palmberg. No. 58,817; Aug. 30; v. 289; p. 976.
- Cycles, Mud-guard for. H. J. McCauley. No. 58,246; June 28; v. 287; p. 733.
- Cycles, Side 'car for motor-. O. Lemieux and G. Liboiron. No. 58,037; May 31; v. 286; p. 1015.
- Dental-appliance panel. O. H. and A. F. Pieper. No. 58,819; Aug. 30; v. 289; p. 977.
- Dental appliances, Panel for. O. H. and A. F. Pieper. No. 58,939; Sept. 6; v. 290; p. 156.
- Dental bracket-arm. P. Russell. No. 59,934; Dec. 6.
- Dental die device. J. H. Hollison and C. H. Miller. No. 57,044; Feb. 1; v. 283; p. 131.
- Dental-equipment stand. G. D. Heck. Nos. 59,649-50; Nov. 15.
- Dental implement. J. H. Kellogg. No. 59,230; Oct. 4.
- Dental implements, Pedestal for. P. Russell, A. W. Schramm, and R. S. Woodward, Jr. No. 59,932; Dec. 6.
- Dental stand. P. Russell, A. W. Schramm, and R. S. Woodward, Jr. No. 59,933; Dec. 3.
- Dentists' use, Receptacle for. S. M. Hurr. No. 59,965; Dec. 13.
- Desk. W. L. Fox. No. 57,075; Feb. 8; v. 283; p. 322.
- Desk and table, Combination. P. Van Dommelen. No. 60,077; Dec. 20.
- Desk, Chair-. J. C. Moore. No. 57,369; Mar. 15; v. 284; p. 551.
- Desk, Chair-. J. C. Moore. No. 60,051; Dec. 20.
- Desk-pad corner-clip. H. T. Adams. No. 60,006; Dec. 20.
- Desk, School-. L. H. McKee. No. 58,247; June 28; v. 287; p. 734.
- Desk set. F. J. Plym. Nos. 59,274-9; Oct. 4.
- Desk, Typewriter-. C. Tichy. No. 57,401; Mar. 15; v. 284; p. 557.
- Dessert-cup, Edible. S. E. Winder. No. 57,177; Feb. 22; v. 283; p. 722.
- Dial, Window of an instrument-. T. L. Lee. No. 59,557; Nov. 1.
- Diamond-setting. J. Davidson. No. 58,307; July 12; v. 288; p. 359.
- Dice. F. J. Kromenaker. No. 59,970; Dec. 13.
- Dictation-machines, Correction-indicator for. G. W. Beadle. No. 58,537; Aug. 2; v. 289; p. 125.
- Direction-indicator. I. D. Howell. No. 57,910; May 17; v. 286; p. 583.
- Dish. F. S. Crowell. Nos. 57,819-21; May 10; v. 286; p. 370.
- Dish, Bonbon-. H. and L. Farber. No. 57,827; May 10; v. 286; p. 371.
- Dish or receptacle. J. L. Wentz. No. 56,903; Jan. 4; v. 282; p. 168.
- Dish or similar article. G. Haviland. No. 59,217; Oct. 4.
- Dish or similar article. H. E. Nock. No. 56,939; Jan. 18; v. 282; p. 535.
- Dish or similar article. J. Tharaud. No. 58,515; July 26; v. 288; p. 780.
- Dish or similar receptacle. F. Pfeiffer, Sr. No. 57,719; Apr. 26; v. 285; p. 743.
- Disk, Advertising-. H. H. Pennock. No. 58,101; June 7; v. 287; p. 157.
- Disk wheel. W. L. Pfeiffer. No. 59,375; Oct. 11.
- Disk, Wheel-. F. C. Schoenthal. No. 58,634; Aug. 2; v. 289; p. 143.
- Disk-wheel disk. W. E. Williams. No. 58,856; Aug. 30; v. 289; p. 983.
- Disks, Utility-stand for. H. Zamsky and S. Levy. No. 58,415; July 12; v. 288; p. 384.
- Dispensing apparatus or article of similar nature. N. C. Ward. Nos. 57,457-8; Mar. 29; v. 284; pp. 916-17.
- Dispensing apparatus, Stand for. D. H. Clark. No. 59,713; Nov. 22.
- Display-box for bead necklaces. O. W. Trilsch. No. 57,747; Apr. 26; v. 285; p. 748.
- Display-case. I. W. Rice. Nos. 59,870-1; Nov. 29.
- Display-counter. G. W. Gray. No. 60,021; Dec. 20.
- Display-counter. W. T. Sherer. No. 57,096; Feb. 8; v. 283; p. 326.
- Display device. W. Wurth. No. 58,296; July 5; v. 288; p. 165.
- Display device, Cut-out. L. Callahan. No. 57,425; Mar. 29; v. 284; p. 911.
- Display-fixture. G. M. Morrill. No. 58,098; June 7; v. 287; p. 157.
- Display-rack. E. Allen. No. 59,053; Sept. 20; v. 290; p. 578.
- Display-rack for shoes. L. S. McCombs. No. 56,883; Jan. 4; v. 282; p. 164.
- Display-stand. H. L. Beach. No. 29,618; Nov. 18.
- Display-stand. D. J. Jacobs. No. 59,554; Nov. 1.
- Display-stand. M. M. Mills. No. 57,705; Apr. 26; v. 285; p. 741.
- Display-stand. C. J. Pult. No. 57,442; Mar. 29; v. 284; p. 914.
- Display-stand. A. Wood. No. 58,983; Sept. 6; v. 290; p. 164.
- Displaying articles of merchandise, Stand for. L. A. Samstag. No. 59,130; Sept. 20; v. 290; p. 594.
- Doily. E. Holzer. No. 59,227; Oct. 4.
- Doll. L. E. Alexander. No. 58,863; Sept. 6; v. 290; p. 141.
- Doll. E. V. Allison. Nos. 58,298-300; July 12; v. 288; p. 358.
- Doll. E. Baird and C. M. Alig. No. 59,533; Nov. 1.
- Doll. H. Baum. No. 57,489; Apr. 12; v. 285; p. 336.
- Doll. E. B. Card. No. 59,814; Nov. 29.
- Doll. J. M. Cook. No. 57,315; Mar. 15; v. 284; p. 542.
- Doll. M. A. Cummings. No. 57,316; Mar. 15; v. 284; p. 542.
- Doll. S. E. Delavan. No. 57,515; Apr. 12; v. 285; p. 341.
- Doll. W. Donahay. Nos. 57,596-613; Apr. 26; v. 285; pp. 721-4.
- Doll. O. W. Ennis. No. 57,519; Apr. 12; v. 285; p. 341.
- Doll. P. Fynn. No. 59,210; Oct. 4.
- Doll. C. A. Giebler-Wanke. Nos. 57,189-90; Mar. 1; v. 284; pp. 144-5.
- Doll. F. C. Hamill. No. 58,315; July 12; v. 288; p. 361.
- Doll. A. Heath. No. 59,893; Dec. 6.
- Doll. E. A. Hutchison. No. 59,491; Oct. 25.
- Doll. D. H. Isaac and L. B. Smith. No. 59,847; Nov. 29.
- Doll. F. Johnson. No. 58,385; July 12; v. 288; p. 378.
- Doll. C. Johnstone. No. 60,031; Dec. 20.
- Doll. F. Kaupmann, Jr. Nos. 58,574-5; Aug. 2; v. 289; p. 133.
- Doll. A. Keenan. Nos. 59,968-9; Dec. 13.
- Doll. H. Kelley. No. 58,388; July 12; v. 288; p. 378.
- Doll. A. N. Ludwig. No. 58,787; Aug. 30; v. 289; p. 970.
- Doll. A. Lustig. No. 58,390; July 12; v. 288; p. 379.
- Doll. M. Macdonald. No. 59,242; Oct. 4.
- Doll. E. Malvarca. Nos. 58,391-2; July 12; v. 288; p. 371.
- Doll. C. T. McEnery. No. 59,246; Oct. 4.
- Doll. F. L. Miller, Jr. Nos. 59,666-7; Nov. 15.
- Doll. L. Morse. No. 57,251. Mar. 8; v. 284; p. 333.
- Doll. H. O. Oliver. No. 60,056; Dec. 20.
- Doll. D. Read. No. 59,282; Oct. 4.
- Doll. I. H. Rundquist. Nos. 56,890-1; Jan. 4; v. 282; p. 166.
- Doll. E. R. Scatterday. No. 59,787; Nov. 22.
- Doll. M. Schoen. No. 59,289; Oct. 4.
- Doll. E. M. Shaw. No. 58,404; July 12; v. 288; p. 381.
- Doll. M. T. Tatum and E. W. Tyndale. No. 57,396; Mar. 15; v. 284; p. 556.
- Doll. R. H. Usher. No. 57,025; Jan. 25; v. 282; p. 694.
- Doll. F. Vathé. No. 60,076; Dec. 20.
- Doll. U. Wilcox. No. 59,051; Sept. 13; v. 290; p. 391.
- Doll. M. M. Zimmerman. No. 59,999; Dec. 13.
- Doll. Brownie. F. C. Hamill. No. 59,215; Oct. 4.
- Doll. Dressed. E. V. Allison. No. 58,297; July 12; v. 288; p. 357.
- Doll. Dressed. S. de Kazarine and M. de Porohovchikova. Nos. 59,513-14; Oct. 25.
- Doll-head. E. H. Springer. No. 57,547; Apr. 12; v. 285; p. 347.
- Doll-house. W. Donahay. Nos. 57,614-17; Apr. 26; v. 285; pp. 724-5.
- Doll or article of similar nature, Rag. B. E. Feist. No. 59,467; Oct. 25.
- Doll, Pugilist. T. N. Le Claire. No. 58,389; July 12; v. 288; p. 378.
- Doll, Rag. M. Kaesela. No. 60,097; Dec. 27.
- Doll, statuette, or minaret figure. E. A. Meiser. No. 59,854; Nov. 29.



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- Doll-wagon. C. J. Kern. No. 58,030; May 31; v. 286; p. 1014.
- Doll's costume. E. R. Clark and L. R. Neuer. No. 59,193; Oct. 4.
- Doll's head. V. H. Mohler. No. 60,050; Dec. 20.
- Domestic-boiler stand. L. V. Gelder. No. 57,521; Apr. 12; v. 285; p. 342.
- Door-bumper. S. B. Atwood. No. 59,173; Oct. 4.
- Dough-mixer. F. X. Lauterbur. Nos. 58,034-5; May 31; v. 286; pp. 1014-15.
- Dough-rounder. T. H. Clark. No. 59,621; Nov. 15.
- Drain-cock-opening tool. J. Benbow and E. Mason. No. 59,326; Oct. 11.
- Dress. J. R. Taylor. No. 58,641; Aug. 2; v. 289; p. 144.
- Dress, apron, or like garment. C. K. Wilson. No. 57,293; Mar. 8; v. 284; p. 340.
- Dress, House-. W. H. Johnson. No. 57,231; Mar. 8; v. 284; p. 329.
- Dress, House-. H. Mellen. No. 59,561; Nov. 1.
- Dress or frock. S. S. Robertson. No. 57,727; Apr. 26; v. 285; p. 745.
- Drill-hole cleaner or similar article. L. J. Sortor. No. 58,691; Aug. 9; v. 289; p. 373.
- Drum-hoop. E. J. Gulick. Nos. 58,746-7; Aug. 30; v. 289; p. 961.
- Dust-pan. O. Scalise. No. 59,131; Sept. 20; v. 290; p. 594.
- Easel. R. Spencer. No. 59,607; Nov. 8.
- Egg-tester. J. K. and E. K. Martinka. No. 57,988; May 24; v. 286; p. 602.
- Electric arms, Wall-plate for mounting. J. Giammarino. No. 57,634; Apr. 26; v. 285; p. 728.
- Electric automatic plant. M. C. Cosgray. No. 58,716; Aug. 30; v. 289; p. 956.
- Electric-bulb holder. A. Spaniak. No. 57,942; May 17; v. 286; p. 559.
- Electric ceiling-fixture. F. A. Frerichs. No. 58,737; Aug. 30; v. 289; p. 959.
- Electric ceiling-fixture. F. A. Frerichs. No. 58,740; Aug. 30; v. 289; p. 960.
- Electric ceiling-fixture. F. A. Frerichs. No. 58,742; Aug. 30; v. 289; p. 960.
- Electric chandelier. F. A. Frerichs. No. 58,736; Aug. 30; v. 289; p. 959.
- Electric chandelier. F. A. Frerichs. Nos. 58,738-9; Aug. 30; v. 289; p. 960.
- Electric drill. A. H. Petersen. No. 59,678; Nov. 15.
- Electric fan and heating device. G. Graff and W. A. Kennedy. No. 58,289; July 5; v. 288; p. 164.
- Electric fan-casing. H. R. and R. J. Kelsey. No. 58,765; Aug. 30; v. 289; p. 965.
- Electric heater. G. Potstada. No. 57,542; Apr. 12; v. 285; p. 346.
- Electric heating elements, Sectional support for. F. W. Moffat. Nos. 59,369-70; Oct. 11.
- Electric heating unit, Radiant. M. H. Shoenberg. No. 59,133; Sept. 20; v. 290; p. 594.
- Electric immersion-heater. D. H. Clark. No. 59,712; Nov. 22.
- Electric-light bracket. C. B. Rogers. No. 58,688; Aug. 9; v. 289; p. 373.
- Electric-light fixture, Bracket for the head-ring of an. H. Shlamowitz. No. 59,937; Dec. 6.
- Electric-light fixtures, Ceiling-plates for. S. M. Israel. Nos. 58,876-7; Jan. 4; v. 282; p. 163.
- Electric-light reflector, Face of a ceiling. J. W. Hancock. No. 59,892; Dec. 6.
- Electric-light stand. V. Meyers. No. 58,394; July 12; v. 288; p. 379.
- Electric-light stand, Sewer's. S. M. Israel. No. 58,757; Aug. 30; v. 289; p. 964.
- Electric-light support, Portable. C. T. Wittstein. No. 58,006; May 24; v. 286; p. 805.
- Electric lights, Contact device for portable. J. T. Drufva. Nos. 58,894-6; Sept. 6; v. 290; pp. 147-8.
- Electric-lighting device. A. A. Henkel. No. 58,092; June 7; v. 287; p. 156.
- Electric-lighting fixture. L. Goldberg. No. 58,869; Jan. 4; v. 282; p. 161.
- Electric-motor casing. A. C. Gilbert. No. 58,904; Sept. 6; v. 290; p. 149.
- Electric-motor casing. C. A. Rietz. No. 57,483; Apr. 5; v. 285; p. 158.
- Electric plate. L. R. Hamlin. No. 59,078; Sept. 20; v. 290; p. 582.
- Electric switches, Casing for. O. H. and A. F. Pieper. No. 58,681; Aug. 9; v. 289; p. 372.
- Electric tool, Portable. S. D. Black and A. G. Decker. No. 57,756; Apr. 26; v. 285; p. 718.
- Electric wall-bracket. F. A. Frerichs. No. 58,741; Aug. 30; v. 289; p. 960.
- Electrical accumulator, Sheet-metal stock for making cells or containers for. C. H. Worsnop. No. 59,804; Nov. 22.
- Electrical adapter. R. P. Briesemeister. No. 58,066; June 7; v. 287; p. 151.
- Electrical attachment-plug, Cap for an. J. G. Peterson. No. 56,943; Jan. 18; v. 282; p. 536.
- Electrical generator, Casing for an. R. I. Frost. No. 58,560; Aug. 2; v. 289; p. 130.
- Electrical heating elements, Insulator-support for. F. W. Moffat. No. 58,804; Aug. 30; v. 289; p. 973.
- Electrical receptacle. E. C. White. No. 58,518; July 26; v. 288; p. 780.
- Electrical-receptacle plate. E. C. White. Nos. 56,953-5; Jan. 18; v. 282; p. 538.
- Electrically-operated hand-drill. A. H. Sweetland. No. 58,117; June 7; v. 287; p. 160.
- Electrode, Sparking-plug. F. W. Hill. No. 58,231; June 28; v. 287; p. 731.
- Elevator-signal. F. S. Van Bloem. Nos. 58,643-5; Aug. 2; v. 289; p. 145.
- Emblem. V. Jacobsen. No. 58,441; July 12; v. 288; p. 570.
- Emblem, badge, button, pin, fob, ring, or like article of manufacture. C. W. Shropshire. No. 58,511; July 26; v. 288; p. 779.
- Emblem, badge, or similar article to be applied to ties, shirts, and similar articles of wearing-apparel. W. H. Moore, Jr. No. 58,928; Sept. 6; v. 290; p. 153.
- Emblem, badge, pin, fob, ring, or like article. W. R. Atkinson. No. 57,296; Mar. 15; v. 284; p. 539.
- Emblem, badge, pin, fob, ring, or like articles. E. A. Frank and H. B. Curtis. No. 56,965; Jan. 25; v. 282; p. 685.
- Emblem, badge, ring, stickpin, brooch, watch-charm, &c. E. C. Dennis and R. M. Shipley. No. 59,825; Nov. 29.
- Emblem, badge, ring, stickpin, brooch, watch-charm, lapel-button. E. C. Dennis and R. M. Shipley. No. 59,984; Dec. 13.
- Emblem, badge, stickpin, or similar article. H. G. Es-sayan. No. 59,631; Nov. 15.
- Emblem-button. C. B. Gore. No. 58,436; July 19; v. 288; p. 569.
- Emblem, emblazoned or illuminated placard, flag, &c., Patriotic. R. Percy. No. 58,448; July 19; v. 288; p. 571.
- Emblem or badge. A. M. Pond. No. 58,045; May 31; v. 286; p. 1016.
- Emblem, pin, badge, or similar article. G. McCaul. No. 59,903; Dec. 6.
- Emblem, pin, button, or similar article. E. C. Heathcote. No. 56,871; Jan. 4; v. 282; p. 162.
- Emblem, pin, button, or similar article. E. C. Heathcote. Nos. 59,589-91; Nov. 8.
- Emblem, pin, button, or similar article. E. C. Heathcote. Nos. 59,744-5; Nov. 22.
- Embroidery. F. Hoengig. Nos. 57,474-6; Apr. 5; v. 285; pp. 156-7.
- Engine-casing. C. C. Hinkley. No. 59,843; Nov. 29.
- Engine-frame. C. E. Gambill. No. 59,833; Nov. 29.
- Engines, Vaporizer for gas-. M. O. Smith. No. 57,282; Mar. 8; v. 284; p. 338.
- Envelop. E. Balogh. No. 58,535; Aug. 2; v. 289; p. 125.
- Eraser and pencil-sharpener, Combined. L. Zelick. No. 59,530; Oct. 25.
- Erasers, Brush attachment for. L. W. Faber. No. 57,219; Mar. 8; v. 283; p. 327.
- Fabric. G. Gegenheimer. Nos. 59,834-7; Nov. 29.
- Fabric, Brocade. J. H. Bunting. Nos. 57,202-3; Mar. 8; v. 284; p. 324.
- Fabric, Brocade. J. H. Bunting. No. 58,876; Sept. 6; v. 290; p. 143.
- Fabric for tents and the like, Cotton. W. S. Friedlander. No. 58,743; Aug. 30; v. 289; p. 961.
- Fabric or article of similar nature, Textile. A. Frati. No. 58,735; Aug. 30; v. 289; p. 959.
- Fabric or similar article, Textile. L. Biva. Nos. 58,700-5; Aug. 30; v. 289; pp. 953-4.
- Fabric or similar article, Textile. L. Biva. Nos. 59,177-9; Oct. 4.
- Fabric or similar article, Textile. A. Frati. Nos. 59,208-9; Oct. 4.
- Fabric or similar article, Textile. H. L. Ransom and J. E. Emerson. No. 59,034; Sept. 13; v. 290; p. 387.
- Fabric, Printed. E. B. Batterton. No. 59,808; Nov. 29.
- Fabric, Textile. J. H. Bunting. No. 57,204; Mar. 8; v. 284; p. 325.
- Fabric, Textile. J. H. Bunting. No. 58,711; Aug. 30; v. 289; p. 955.
- Fabric, Textile. J. H. Bunting. Nos. 58,877-8; Sept. 6; v. 290; p. 143.
- Fabric, Textile. J. H. Bunting. No. 58,992; Sept. 13; v. 290; p. 379.
- Fabric, Textile. J. H. Bunting. Nos. 59,183-5; Oct. 4.
- Fabric, Textile. A. Eisele. No. 57,216; Mar. 8; v. 284; p. 327.
- Fabric, Textile. A. Eisele. No. 58,897; Sept. 6; v. 290; p. 148.
- Fabric, Textile. T. W. Estes, Jr. Nos. 59,465-6; Oct. 25.
- Fabric, Textile. T. W. Estes, Jr. No. 59,545; Nov. 1.
- Fabric, Textile. C. Katz. Nos. 57,234-6; Mar. 8; v. 284; p. 330.
- Fabric, Textile. C. Katz. No. 58,913; Sept. 6; v. 290; p. 150.
- Fabric, Textile. E. Krupicka. Nos. 57,237-8; Mar. 8; v. 284; p. 330.
- Fabric, Textile. E. Krupicka. Nos. 58,769-71; Aug. 30; v. 289; p. 966.
- Fabric, Textile. E. Krupicka. No. 59,014; Sept. 13; v. 290; p. 383.
- Fabric, Textile. W. W. Mayer. No. 59,501; Oct. 25.
- Fabric, Textile. R. L. Reinhart. Nos. 58,823-5; Aug. 30; v. 289; p. 978.



*Alphabetical list of designs—Continued.*

- Fabric, Textile. W. G. Reith. Nos. 57,267-9; Mar. 8; v. 284; p. 336.
- Fabric, Textile. C. Waugh. No. 56,902; Jan. 4; v. 282; p. 168.
- Fabric used in upholstering and decorating. C. L. G. Bianchini. Nos. 58,870-3; Sept. 6; v. 290 p. 142.
- Fabrics, Article of manufacture comprising a flouncing or edging for. H. T. Mendelsohn. No. 57,249; Mar. 8; v. 284; p. 332.
- Fan. W. Brown. No. 57,816; May 10; v. 286; p. 369.
- Fan. E. R. Field. No. 58,732; Aug. 30; v. 289; p. 959.
- Fan and heating device, Electric. G. Graff and W. A. Kennedy. No. 59,214; Oct. 4.
- Fan, Motor-. T. Nakamura. No. 59,975; Dec. 13.
- Fastener. W. A. Schuler. No. 57,384; Mar. 15; v. 284; p. 554.
- Favor. E. Gosliner. No. 58,745; Aug. 30; v. 289; p. 961.
- Feed-trough. A. N. Eaton. No. 57,620; Apr. 26; v. 285; p. 725.
- Feed-through switch. J. B. Downing. No. 59,070; Sept. 20; v. 290; p. 581.
- Fence, Wire. A. G. Johnson. No. 59,119; Sept. 20; v. 290; p. 592.
- Fender. F. E. Bradfield. No. 57,579; Apr. 26; v. 285; p. 718.
- Figure, Novelty. H. H. Kopley. No. 60,042; Dec. 20.
- Figure, Novelty. M. I. Mayer and G. H. Phelps. No. 58,446; July 19; v. 288; p. 571.
- Figurette. L. L. Artz. No. 59,450; Oct. 25.
- Figurette, Decoration of. G. Pfeiffer. No. 57,262; Mar. 8; v. 284; p. 335.
- File, Letter-. A. Paulson. No. 59,508; Oct. 25.
- Files, Hand-grip for. J. L. Osgood. Nos. 58,620-3; Aug. 2; v. 289; pp. 140-1.
- Film-reel. E. S. Porter. No. 57,860; May 10; v. 286; p. 377.
- Finger-nail tool. V. Beauregard. No. 58,210; June 28; v. 287; p. 727.
- Finger-ring. F. Amati. No. 58,008; May 31; v. 286; p. 1010.
- Finger-ring. J. Hookaylo. No. 57,338; Mar. 15; v. 284; p. 546.
- Finger-ring or similar article. M. E. Gollersch. No. 58,312; July 12; v. 288; p. 360.
- Fire-extinguisher. F. W. Andrews. No. 59,319; Oct. 11.
- Fire-extinguisher casing. F. C. Bargar. No. 56,906; Jan. 18; v. 282; p. 529.
- Fish-bait. H. S. Dills. Nos. 58,183-4; June 21; v. 287; p. 547.
- Fish-bait. J. N. Piggott. No. 59,770; Nov. 22.
- Fish-bait body. W. A. Stolley. No. 57,739; Apr. 26; v. 285; p. 747.
- Fish-bait body. W. A. Stolley. No. 58,116; June 7; v. 287; p. 160.
- Fishing pole and reel, Combined. M. S. Dunkelberger. No. 59,204; Oct. 4.
- Flag. D. C. Gebhardt. No. 57,223; Mar. 8; v. 284. p. 284.
- Flag. C. A. Masline, Sr. No. 57,366; Mar. 15; v. 284; p. 551.
- Flag, Automobile service-. J. B. Danforth. No. 57,512; Apr. 12; v. 285; p. 340.
- Flag, banner, or similar article. H. P. Lane. No. 59,015; Sept. 13; v. 290; p. 383.
- Flag-holder. C. Selisnik. No. 59,875; Nov. 29.
- Flag or emblem. W. Kautzman. No. 56,882; Jan. 4; v. 282; p. 163.
- Flag, pennant, &c. V. Jacobsen. Nos. 57,345-7; Mar. 15; v. 284; pp. 547-8.
- Flag, pennant, emblem, or article of similar nature. C. Nettleton. No. 58,395; July 12; v. 288; p. 379.
- Flag, pennant, sign, emblem, or article of similar nature. A. Le Fevre. No. 57,533; Apr. 12; v. 285; p. 344.
- Flag, Service-. P. L. Miller. No. 57,192; Mar. 1; v. 284; p. 145.
- Flashlight. W. B. Stephenson. No. 59,301; Oct. 4.
- Flashlight-head. A. G. Arnoll. No. 57,760; May 3; v. 286; p. 151.
- Flatiron-holder. W. H. Hawkes. No. 58,566; Aug. 2; v. 289; p. 131.
- Floral holder. V. Sucatre. Nos. 58,451-2; July 19; v. 288; p. 572.
- Flower-holder. F. Carder. No. 59,186; Oct. 4.
- Flower-holder. E. L. Knowles. No. 57,843; May 10; v. 286; p. 374.
- Flower-stand. C. M. Winemiller. No. 60,079; Dec. 20.
- Flue-cleaning blade. G. E. Shirley. No. 59,382; Oct. 11.
- Fly-catcher. G. Simcole. No. 57,735; Apr. 26; v. 285; p. 746.
- Flytrap. J. Baj and L. Marciniak. No. 58,009; May 31; v. 286; p. 1010.
- Fob, Watch-. C. W. Herrin. No. 58,327; July 12; v. 288; p. 363.
- Folder. F. J. Cooper. No. 59,338; Oct. 11.
- Foot-band. C. Tweedie. Nos. 59,990-1; Dec. 13.
- Foot-band. C. Tweedie. Nos. 60,074-5; Dec. 20.
- Footrest. T. P. Schott. No. 58,946; Sept. 6; v. 290; p. 157.
- Footwear, Infant's. J. Tweedie. No. 58,051; May 31; v. 286; p. 1017.
- Fork and spoon, Combination. A. A. Quandee and S. G. Palmberg. No. 59,869; Nov. 29.
- Fork, Carver. J. H. Lickert. No. 58,779; Aug. 30; v. 289; p. 968.
- Fountain, Sanitary drinking-. A. G. Haws. No. 59,473; Oct. 25.
- Fountain, Soda-. F. T. Wiechert. No. 58,652; Aug. 2; v. 289; p. 146.
- Fountains, Drinking-pan for stock-. W. A. McCullough. No. 58,196; June 21; v. 287; p. 550.
- Frames, Tubing for automobile-windshield. W. B. McCarthy. No. 59,367; Oct. 11.
- Frock, Child's. D. M. Smith. No. 59,037; Sept. 13; v. 290; p. 388.
- Fruit-dish or article of similar nature. F. S. Crowell. Nos. 57,822-4; May 10; v. 286; p. 371.
- Fuel-container. M. C. Whitaker. No. 58,281; June 28; v. 287; p. 739.
- Funnel. G. Gregory. No. 59,648; Nov. 15.
- Fur garment, Child's one-piece. S. S. Samuels. No. 59,288; Oct. 4.
- Furnace. W. J. Haynes, Jr. No. 59,220; Oct. 4.
- Furnace, Hot-air. C. S. Prizer. No. 57,149; Feb. 22; v. 283; p. 717.
- Furnaces, Refractory floor member for electric. F. W. Moffat. No. 59,256; Oct. 4.
- Furnaces, Refractory roof member for electric. F. W. Moffat. No. 59,257; Oct. 4.
- Furniture-cover. E. M. Thompson. No. 58,168; June 14; v. 287; p. 359.
- Fuse and plug receptacle box, Combined. W. C. Hollins and F. P. Arrousez. No. 57,975; May 24; v. 286; p. 800.
- Fuse and switch block, Combined. C. H. Bissell. No. 56,907; Jan. 18; v. 282; p. 529.
- Fuse cutter and splitter. R. Rice. No. 59,774; Nov. 22.
- Gage-frame. B. H. Blood. Nos. 59,703-6; Nov. 22.
- Gaiter. W. Metts. Nos. 58,798-800; Aug. 30; v. 289; p. 972.
- Game. H. M. Becker. No. 58,012; May 31; v. 286; p. 1011.
- Game apparatus. C. C. Rehark. No. 57,062; Feb. 1; v. 283; p. 135.
- Game apparatus. E. C. Steffen. No. 58,259; June 28; v. 287; p. 736.
- Game apparatus. J. Zopfa. No. 59,531; Oct. 25.
- Game apparatus, Disk or element for a. E. Bruder. No. 59,709; Nov. 22.
- Game-board. W. C. Carter. No. 58,069; June 7; v. 287; p. 152.
- Game-board. H. T. Clayton. No. 59,715; Nov. 22.
- Game-board. A. Cohn and L. H. Debs. No. 58,661; Aug. 9; v. 289; p. 368.
- Game-board. R. H. Cotter. No. 59,820; Nov. 29.
- Game-board. R. H. Cotter. No. 60,013; Dec. 20.
- Game-board. R. J. Dahir. No. 59,719; Nov. 22.
- Game-board. E. J. Daley, Jr. No. 57,037; Feb. 1; v. 283; p. 130.
- Game-board. G. P. Garin. No. 58,670; Aug. 9; v. 289; p. 369.
- Game-board. A. J. Gore. No. 57,430; Mar. 29; v. 284; p. 312.
- Game-board. F. D. Jenkins. No. 58,093; June 7; v. 287; p. 156.
- Game-board. W. S. Loring. No. 57,982; May 24; v. 286; p. 801.
- Game-board. J. F. Lyons. No. 58,850; Nov. 29.
- Game-board. A. Oehmann. No. 58,937; Sept. 6; v. 290; p. 155.
- Game-board. F. S. Rode. No. 58,829; Aug. 30; v. 289; p. 979.
- Game-board. A. Romeuz-Cuilliez and J. Célier. No. 59,433; Oct. 18.
- Game-board. R. L. Stadnick. No. 57,160; Feb. 22; v. 283; p. 719.
- Game-board. E. Sutton. No. 57,947; May 17; v. 286; p. 589.
- Game-board. S. L. Tracey. No. 58,264; June 28; v. 287; p. 737.
- Game-cards, Pack of. L. H. Hartman. No. 58,749; Aug. 30; v. 289; p. 962.
- Game-dial or similar article. E. Bruder. Nos. 58,707-8; Aug. 30; v. 289; p. 954.
- Game-dial or similar article. E. Bruder. Nos. 59,707-8; Nov. 22.
- Garment. F. Nesmith. No. 58,929; Sept. 6; v. 290; p. 153.
- Garment, Child's. L. E. Freeman. No. 57,222; Mar. 8; v. 284; p. 328.
- Garment, Child's. L. E. Freeman. No. 58,308; July 12; v. 288; p. 359.
- Garment, Child's. A. Ladd. No. 59,555; Nov. 1.
- Garment, Child's. M. L. Zidell. No. 57,294; Mar.-8; v. 284; p. 340.
- Garment, Child's outer. J. Solomon. No. 60,065; Dec. 20.
- Garment, Lady's. S. Y. Merchant. No. 59,562; Nov. 1.
- Garment or romper, Child's. S. J. Varnhagen. No. 59,570; Nov. 1.
- Garment-protector. M. S. George. No. 59,736; Nov. 22.
- Garment-protector. G. K. Guinzburg. No. 57,179; Feb. 22; v. 283; p. 722.
- Garment-shield. V. Guinzburg. No. 56,967; Jan. 25; v. 282; p. 685.
- Garment, such as a play-suit, Child's outer. E. M. Cook. No. 59,540; Nov. 1.
- Garment-supporter. A. M. Ziegler. No. 58,416; July 12; v. 288; p. 384.



- Garment, Work-. C. R. Schmick. No. 58,403; July 12; v. 288; p. 381.
- Garter. T. Cahn. No. 60,084; Dec. 27.
- Garter. M. B. Hammond. No. 56,969; Jan. 25; v. 282; p. 686.
- Garter, Man's. J. Press. No. 59,566; Nov. 1.
- Gas-burner. H. E. Kerr and W. J. Barber. No. 58,914; Sept. 6; v. 290; p. 151.
- Gas-heater. J. H. Grayson. No. 59,839; Nov. 29.
- Gas-heater. J. H. Grayson. No. 59,888; Dec. 6.
- Gas-heater. J. H. Grayson. Nos. 60,022-3; Dec. 20.
- Gas-heater. M. L. Packer. No. 60,057; Dec. 20.
- Gas-heater, Portable. L. P. Lowe. No. 57,687; Apr. 26; v. 285; p. 738.
- Gas-heater, Radiant. E. L. Lope. No. 58,151; June 14; v. 287; p. 356.
- Gas-stoves, Radiant for. A. H. Humphrey. No. 57,230; Mar. 8; v. 284; p. 329.
- Gasolene-dispenser casing. J. H. Brady. No. 58,131; June 14; v. 287; p. 353.
- Gear-cover. C. Kanev. No. 59,358; Oct. 11.
- Gem-setting. A. L. Eliasoff. Nos. 57,217-18; Mar. 8; v. 284; p. 327.
- Gem-setting. J. W. Mayer. No. 58,609; Aug. 2; v. 289; p. 138.
- Gin and delinter saw teeth, Cleaning and alining device for. J. Wilson. No. 57,561; Apr. 12; v. 285; p. 350.
- Girdle, Lady's. A. B. Beck. No. 58,987; Sept. 13; v. 290; p. 378.
- Glass article. A. J. Sanford. Nos. 57,272-5; Mar. 8; v. 284; p. 337.
- Glass article of manufacture, Ornamentation for cut-. A. F. Priestley. No. 59,681; Nov. 15.
- Glass dish, Transparent. G. D. Sailer. Nos. 58,200-1; June 21; v. 287; pp. 550-1.
- Glass dish, Transparent. G. D. Sailer. No. 59,287; Oct. 4.
- Glass dish, Transparent-. G. D. Sailer. No. 60,062; Dec. 20.
- Glass globe, Prismatic. W. A. Dorey. No. 57,618; Apr. 26; v. 285; p. 725.
- Glass goblet or similar article. J. O. Balda. No. 57,570; Apr. 26; v. 285; p. 717.
- Glass goblet or similar article of manufacture. J. O. Balda. No. 58,534; Aug. 2; v. 289; p. 124.
- Glass goblet or similar article, Surface ornamentation for. J. W. Groves. No. 59,077; Sept. 20; v. 290; p. 582.
- Glass, Reading-. L. W. Bugbee. No. 60,010; Dec. 20.
- Glass store-fronts, Bar for holding plate-. G. W. Davis. No. 57,590; Apr. 26; v. 285; p. 720.
- Glass vase or similar article. B. Johnson. No. 58,759; Aug. 30; v. 289; p. 964.
- Glass vessel. M. A. Smith. No. 57,997; May 24; v. 286; p. 803.
- Glass-wiper. V. H. Christen. No. 59,189; Oct. 4.
- Glove. H. Eisenstein. No. 59,626; Apr. 26; v. 285; p. 727.
- Glove. B. C. Grinnell. No. 58,313; July 12; v. 288; p. 360.
- Glove. E. Perrone. No. 58,627; Aug. 2; v. 289; p. 142.
- Glove. E. Pevny. No. 59,679; Nov. 15.
- Glove. H. I. Seely. No. 57,279; Mar. 8; v. 284; p. 338.
- Glove. H. A. Taylor. No. 59,611; Nov. 8.
- Glove or similar article, Ornamentation for a. W. Horn. No. 59,477; Oct. 25.
- Goblet. J. O. Balda. No. 59,451; Oct. 25.
- Goblet. T. C. Heisey. No. 59,651; Nov. 15.
- Goblet or similar article. T. C. Heisey. No. 59,474; Oct. 25.
- Goblet or similar article. S. Munich. No. 58,197; June 21; v. 287; p. 550.
- Goblet or similar article of glassware. A. E. Sehlbach. No. 57,933; May 17; v. 286; p. 587.
- Golf-ball. P. A. Martin. No. 59,366; Oct. 11.
- Golf-putter head. E. F. Bacheller. No. 58,209; June 28; v. 287; p. 727.
- Golf-putter head. A. A. Kraeuter. No. 57,980; May 24; v. 286; p. 801.
- Gong-casing. M. J. West. No. 58,846; Aug. 30; v. 289; p. 982.
- Goods or veilings, Ticket for net. E. Jacob. No. 57,838; May 10; v. 286; p. 373.
- Graphophone. C. Dittmar. No. 57,594; Apr. 26; v. 285; p. 721.
- Grass mat. W. T. Case. Nos. 57,504-10; Apr. 12; v. 285; pp. 339-40.
- Grates, &c., Heating-element section for electrical. S. D. Robinson. No. 59,685; Nov. 15.
- Grave-cover. L. Anderson. No. 59,172; Oct. 4.
- Gripping device. G. G. Seher. No. 59,936; Dec. 6.
- Gum and mint case. L. W. Buchenau. No. 59,181; Oct. 1.
- Gum-package-dispensing receptacle. T. E. Crecellus. No. 58,545; Aug. 2; v. 289; p. 127.
- Gun, Grease-. C. E. Bown. No. 57,107; Feb. 22; v. 283; p. 710.
- Gun, Grease-. A. A. Klems. No. 57,362; Mar. 15; v. 284; p. 550.
- Gun, Grease-. A. A. Klems. No. 59,361; Oct. 11.
- Gun, Grease-. C. W. Manzel. No. 57,987; May 24; v. 286; p. 802.
- Gun, Oil-. C. W. Manzel. No. 57,986; May 24; v. 286; p. 802.
- Hair-clipper. E. J. Rust. No. 59,434; Oct. 18.
- Hair-cutter handle. W. J. Van Osdel. No. 58,843; Aug. 30; v. 289; p. 981.
- Hair-cutter, Power. J. G. Beshara. No. 58,658; Aug. 9; v. 289; p. 367.
- Hair-cutting machines, Case for. E. V. N. Tomasulo. No. 59,440; Oct. 18.
- Hair fringe. M. Muller. No. 59,261; Oct. 4.
- Hairpin. G. Hake. No. 57,645; Apr. 26; v. 285; p. 730.
- Hairpin. T. W. Saul. No. 57,995; May 24; v. 286; p. 803.
- Hairpin. A. J. Smith. No. 59,291; Oct. 4.
- Hammer, Cushion-. W. Moorhouse. No. 57,706; Apr. 26; v. 285; p. 741.
- Hammer-mill beater. J. L. Hiller. No. 56,924; Jan. 18; v. 282; p. 532.
- Hammock. B. B. Englander. No. 59,630; Nov. 15.
- Handbag. M. A. Boething. No. 59,577; Nov. 8.
- Handbag-frame. J. Fischer. Nos. 56,915-6; Jan. 18; v. 282; p. 530.
- Handbag-frame. M. Sloane. No. 57,868; May 10; v. 286; p. 379.
- Handbag, Lady's. A. C. Fisher. No. 58,558; Aug. 2; v. 289; p. 129.
- Handkerchief. C. L. Sumner. No. 59,040; Sept. 13; v. 290; p. 388.
- Handle. P. M. Marks. No. 59,122; Sept. 20; v. 290; p. 592.
- Handle. N. A. Petry. No. 59,920; Dec. 6.
- Handle for spoons, forks, or similar articles. A. G. Kintz. No. 57,779; May 3; v. 286; p. 154.
- Handle of a spoon, fork, or similar article. J. H. Harmstone. No. 58,479; July 26; v. 288; p. 772.
- Handle or similar article of manufacture. A. J. Roth. No. 59,782; Nov. 22.
- Harness anchor, Safety-. G. F. Minnis. Nos. 59,026-7; Sept. 13; v. 290; pp. 385-6.
- Hat. C. R. Place. No. 56,990; Jan. 25; v. 282; p. 689.
- Hat. K. M. Polhamus. No. 56,991; Jan. 25; v. 282; p. 689.
- Hat and coat rack and umbrella-stand, Combined. N. Williams. No. 57,066; Feb. 1; v. 283; p. 135.
- Hat-lining. A. Doman. No. 57,595; Apr. 26; v. 285; p. 721.
- Hat-lining. J. W. Mason. No. 59,023; Sept. 13; v. 290; p. 385.
- Hat-lining. M. Prince. No. 59,567; Nov. 1.
- Hats, Blank for changeable-shape sport-. A. G. Freeman. No. 59,887; Dec. 6.
- Hats, Crease-retaining device for. F. J. Schalow. No. 57,996; May 24; v. 286; p. 803.
- Hatpin. S. A. A. Stenberg. No. 57,388; Mar. 15; v. 284; p. 554.
- Head and neck covering, Combined. S. Rosenberg. No. 58,944; Sept. 6; v. 290; p. 157.
- Headlight. P. R. Collier. Nos. 57,890-1; May 17; v. 286; p. 580.
- Headlight. D. M. White. No. 58,122; June 7; v. 287; p. 161.
- Headlight-dimmer. U. S. McCormick. No. 57,698; Apr. 26; v. 285; p. 740.
- Headlight-lens. J. H. Howard. No. 57,909; May 17; v. 286; p. 583.
- Headlight-lens. J. T. Roffy. No. 59,931; Dec. 6.
- Headlight-lens. C. R. Wooten. No. 57,757; Apr. 26; v. 285; p. 750.
- Headlight-reflector. G. A. Arndt. No. 58,455; July 26; v. 288; p. 767.
- Headlight-reflector, Blown-glass. J. T. Roffy. No. 59,930; Dec. 6.
- Headlights, Antiglare device for automobile-. H. R. Drury. No. 57,619; Apr. 26; v. 285; p. 725.
- Hearse-body. C. S. Mooney. No. 58,249; June 28; v. 287; p. 734.
- Heat-tube for fireplace-heater. G. E. Sharpe. No. 60,063; Dec. 20.
- Heater. W. M. Belt. No. 57,101; Feb. 22; v. 283; p. 709.
- Heater casing, Gas-. J. Mitera. No. 59,255; Oct. 4.
- Heater, Electric. A. J. Holmes. No. 58,487; July 26; v. 288; p. 774.
- Heater, Gas-. H. Dalitz. No. 59,199; Oct. 4.
- Heating apparatus. F. B. Howell. Nos. 60,095-6; Dec. 27.
- Heating apparatus. A. M. Mertzanoff. No. 56,932; Jan. 18; v. 282; p. 534.
- Heel, Boot or shoe. H. G. Swarr. No. 57,763; Apr. 26; v. 285; p. 748.
- Heel-plate. T. B. Fadum. No. 57,826; May 10; v. 286; p. 371.
- Heel-rest. W. E. Sanders. No. 58,632; Aug. 2; v. 289; p. 143.
- Heel, Rubber. W. A. Ream. No. 57,150; Feb. 22; v. 283; p. 717.
- Heel, Shoe-. R. Iredell. No. 59,753; Nov. 22.
- Highway-signal. E. H. Medén. No. 58,096; June 7; v. 287; p. 156.
- Hinge. A. Koetting. No. 57,529; Apr. 12; v. 285; p. 343.
- Hobbyhorse. B. and L. Shinn. No. 58,635; Aug. 2; v. 289; p. 143.
- Hoe. W. Krelewicz. No. 57,057; Feb. 1; v. 283; p. 134.
- Hoe, Garden-. R. F. Barton. No. 57,302; Mar. 15; v. 284; p. 540.
- Hog-house, Individual. L. K. Ellis. No. 60,087; Dec. 27.



*Alphabetical list of designs—Continued.*

- Hollow tableware, Article of. V. Gaertner. Nos. 57,832-3; May 10; v. 286; p. 372.
- Hollow-ware article. H. E. Nock. Nos. 56,937-8; Jan. 18; v. 282; pp. 534-5.
- Hollow-ware article. H. E. Nock. No. 56,940; Jan. 18; v. 282; p. 535.
- Hollow-ware article. G. F. Parker. No. 59,941; Jan. 18; v. 282; p. 535.
- Hooks, Blade for grass-. H. S. Earle. No. 59,072; Sept. 20; v. 290; p. 581.
- Horn, Double. O. Dotson. No. 58,727; Aug. 30; v. 289; p. 958.
- Horn, Flexible shoe-. J. H. Davis. No. 57,115; Feb. 22; v. 283; p. 711.
- Horn, Valve-casing for a. E. J. Gulick. No. 58,226; June 28; v. 287; p. 730.
- Horse, Rocking-. J. H. Webb. No. 57,751; Apr. 26; v. 285; p. 749.
- Hose, Apparatus for housing. L. E. Baker. No. 59,949; Dec. 13.
- Hose stand, Air-. G. F. Royer. No. 57,271; Mar. 8; v. 284; p. 337.
- Hose-supporter collet. C. J. Hazelton. No. 59,221; Oct. 4.
- Hosiery. J. P. Nissen. No. 57,540; Apr. 12; v. 285; p. 345.
- Hosiery drying and shaping structure. J. H. Kelly. No. 59,231; Oct. 4.
- Hub-cap or similar article. E. J. Sheriff. No. 57,733; Apr. 26; v. 285; p. 746.
- Humidor for cigars. G. Teasdale. No. 58,955; Sept. 6; v. 290; p. 158.
- Husk. R. B. Benjamin. No. 57,105; Feb. 22; v. 283; p. 710.
- Ice-box-door cleat. A. G. Hillebrecht, Jr. No. 59,420; Oct. 18.
- Ice-cream cone. T. F. Lawton. No. 59,603; Nov. 8.
- Ice-cream-cone tray. J. W. Hoodwin. No. 60,025; Dec. 20.
- Ice-creeping plate. J. Viall. No. 59,308; Oct. 4.
- Ignition-contacter. A. A. Kent. No. 57,914; May 17; v. 286; p. 584.
- Ignition-shield, Automobile. E. O. Divine. No. 57,771; May 3; v. 286; p. 153.
- Ignition-tester and spark-gap. C. H. Peck. No. 59,509; Oct. 25.
- Ignition-wire manifold. C. E. Hendricks. Nos. 59,080-6; Sept. 20; v. 290; pp. 583-4.
- Illuminating device. G. Mannino. No. 58,496; July 26; v. 288; p. 776.
- Incense-burner. G. I. Lay. No. 59,556; Nov. 1.
- Incense burner or candlestick. M. J. Kohlberg. No. 59,899; Dec. 6.
- Incense-lozenge. A. C. Page. No. 59,565; Nov. 1.
- Indicator. A. B. Christopher. No. 60,085; Dec. 27.
- Indicator sign, or similar article. C. A. Widmer. No. 58,282; June 28; v. 287; p. 740.
- Induction-coil casing. T. L. Lee. No. 58,495; July 26; v. 288; p. 776.
- Inking-roller. L. La Tour and A. F. Munnell. No. 59,017; Sept. 13; v. 290; p. 383.
- Inkstand-cover. H. Haupt. No. 59,472.
- Inkwell. E. B. Goldstein. No. 59,004; Sept. 13; v. 290; p. 381.
- Insulator. A. O. Austin. No. 59,947; Dec. 13.
- Iron, Electric. A. Ruelland. No. 59,286; Oct. 4.
- Jar. J. M. Luchessa. No. 58,607; Aug. 2; v. 289; p. 138.
- Jar. R. J. Maurer. No. 57,696; Apr. 26; v. 285; p. 739.
- Jar. J. W. Reed. No. 57,444; Mar. 29; v. 284; p. 914.
- Jar, Fruit-. L. A. Drey and J. L. Hiatt. No. 57,772; May 3; v. 286; p. 153.
- Jar opener, Fruit-. A. R. Gurnett. No. 58,672; Aug. 9; v. 289; p. 370.
- Jar or similar article, Closure-cap for a. A. and H. Ingram. Nos. 57,048-54; Feb. 1; v. 283; pp. 132-3.
- Jar or similar article of similar nature. A. and H. Ingram. No. 59,846; Nov. 29.
- Jar or similar container. J. C. Morrison. No. 57,707; Apr. 26; v. 285; p. 741.
- Jewel-mounting, Pronged setting for a. J. Kreisler. No. 58,601; Aug. 2; v. 289; p. 137.
- Jewel, Precious, semiprecious, or synthetic. H. D. Steel. Nos. 59,297-9; Oct. 4.
- Jewelry. F. T. Kassel. Nos. 60,039-40; Dec. 20.
- Jewelry, Article of. H. W. Fishel. Nos. 58,309-10; July 12; v. 288; p. 360.
- Jewelry-box. F. M. Wright. Nos. 59,615-16; Nov. 8.
- Jewelry—namely, a finger-ring or similar article. I. H. Lapidus. No. 59,236; Oct. 4.
- Jewelry—namely, a finger-ring or similar article. F. Zoldo. No. 59,316; Oct. 4.
- Jewelry—namely, a pin, brooch, &c., Article of. H. W. Fishel. Nos. 59,636-44; Nov. 15.
- Jewelry—namely, finger-ring. I. H. Lapidus. No. 58,603; Aug. 2; v. 289; p. 137.
- Jug, Syrup-. A. J. Vits. No. 57,486; Apr. 5; v. 285; p. 158.
- Key-ring. C. H. Payne. No. 57,928; May 17; v. 286; p. 587.
- Kitchen-reminder and advertising-chart, Combined. E. E. Swihart. No. 57,744; Apr. 26; v. 285; p. 748.
- Kitchen-tool. C. L. Graves. No. 59,076; Sept. 20; v. 290; p. 582.
- Knife and fork cleaner. J. J. Gottfried. No. 58,024; May 31; v. 286; p. 1013.
- Knife and fork, Combination. J. H. Lickert. No. 57,683; Apr. 26; v. 285; p. 737.
- Knife-handle. F. J. Shively. No. 57,935; May 17; v. 286; p. 588.
- Knife handle, Pocket-. C. T. Bierbach. Nos. 58,457-8; July 12; v. 288; p. 768.
- Knife, Spoon-. J. Rupp. No. 57,446; Mar. 29; v. 284; p. 915.
- Knife, Potato-. J. H. Lickert. No. 57,534; Apr. 12; v. 285; p. 344.
- Knitted cap. D. F. Byrnes. No. 58,879; Sept. 6; v. 290; p. 144.
- Knitted cap. E. N. Joha. No. 58,573; Aug. 2; v. 289; p. 132.
- Knitted cap. D. Karger. No. 58,758; Aug. 30; v. 289; p. 964.
- Knitted cap. W. B. Tyrrell. No. 58,957; Sept. 6; v. 290; p. 159.
- Knitted or netted fabric. S. Worms. Nos. 58,521-5; July 26; v. 288; p. 781.
- Knitted or netted fabric. S. Worms. No. 58,860; Aug. 30; v. 289; p. 984.
- Knitting-machines, Cop-mounting bracket for. W. A. Houck. No. 57,435; Mar. 29; v. 284; p. 913.
- Knitting, Tension device for. S. Abate and J. Buonincontri. No. 59,449; Oct. 25.
- Lace. C. Bernard. No. 59,700; Nov. 22.
- Lace. H. Binch. Nos. 58,988-9; Sept. 13; v. 290; p. 379.
- Lace. H. S. Bromley. No. 58,710; Aug. 30; v. 289; p. 955.
- Lace. O. Brueggeborns. Nos. 58,990-1; Sept. 13; v. 290; p. 379.
- Lace. M. H. Daudy. No. 57,214; Mar. 8; v. 284; p. 326.
- Lace. M. H. Daudy. Nos. 57,513-14; Apr. 12; v. 285; p. 340.
- Lace. M. H. Daudy. No. 58,723; Aug. 30; v. 289; p. 957.
- Lace. M. H. Daudy. No. 58,998; Sept. 13; v. 290; p. 380.
- Lace. M. H. Daudy. No. 59,458; Oct. 25.
- Lace. M. H. Daudy. No. 60,014; Dec. 20.
- Lace. E. A. Davis. Nos. 59,721-3; Nov. 22.
- Lace. W. Draycott. Nos. 59,202-3; Oct. 4.
- Lace. F. Hoenig. Nos. 57,464-73; Apr. 5; v. 285; pp. 155-6.
- Lace. G. Holt. No. 59,226; Oct. 4.
- Lace. T. O. Kümalehto. No. 58,772; Aug. 30; v. 289; p. 967.
- Lace. T. O. Kümalehto. No. 59,756; Nov. 22.
- Lace. F. Meyer. Nos. 58,802-3; Aug. 30; v. 289; p. 973.
- Lace. T. Monk. Nos. 59,258-60; Oct. 4.
- Lace. S. H. Page. Nos. 59,262-7; Oct. 4.
- Lace. S. H. Page. Nos. 59,912-19; Dec. 6.
- Lace. H. A. Philips. Nos. 59,271-2; Oct. 4.
- Lace. H. A. Philips. Nos. 59,921-3; Dec. 6.
- Lace. G. Radford. No. 58,503; July 26; v. 288; p. 778.
- Lace. G. Radford. No. 59,281; Oct. 4.
- Lace. G. F. Townsend. No. 59,569; Nov. 1.
- Lace and embroidery. W. Schmid. Nos. 56,892-3; Jan. 4; v. 282; p. 166.
- Lace and embroidery. W. Schmid. Nos. 56,994-57,018; Jan. 25; v. 282; pp. 690-3.
- Lace, Embroidered. H. Schwarber. No. 57,277; Mar. 8; v. 284; p. 338.
- Ladle and strainer, Combination. S. Rosen. No. 60,109; Dec. 27.
- Lamp. W. J. Cameron. No. 57,206; Mar. 8; v. 284; p. 325.
- Lamp. F. S. Crowell. No. 59,197; Oct. 4.
- Lamp. J. E. Holmgren. No. 57,045; Feb. 1; v. 283; p. 131.
- Lamp. J. Howe, Jr. No. 59,845; Nov. 29.
- Lamp. C. W. La Roche. No. 59,121; Sept. 20; v. 290; p. 592.
- Lamp. J. I. Papale and G. Campbell. No. 59,061; Sept. 20; v. 290; p. 579.
- Lamp. R. W. Poe. No. 58,044; May 31; v. 286; p. 1016.
- Lamp. J. Smith. Nos. 57,938-40; May 17; v. 286; p. 588.
- Lamp. W. L. Stewart. No. 60,067; Dec. 20.
- Lamp. L. G. Unmack. No. 58,412; July 12; v. 288; p. 383.
- Lamp. H. H. Wolter. Nos. 59,169-70; Sept. 20; v. 290; p. 602.
- Lamp, Acetylene-. W. J. Frisbie. No. 67,037; Feb. 1; v. 283; p. 130.
- Lamp and clock stand. J. M. Hansen. No. 57,226; Mar. 8; v. 284; p. 329.
- Lamp and phonograph, Combined. J. Bloch. No. 56,855; Jan. 4; v. 282; p. 159.
- Lamp and talking machine casing, Combined. W. Hucal. No. 57,911; May 17; v. 286; p. 584.
- Lamp, Auto-. L. S. Treese. No. 57,286; Mar. 8; v. 284; p. 339.
- Lamp, Automobile-. L. Lapidus. No. 58,776; Aug. 30; v. 289; p. 967.
- Lamp, Automobile signal-. E. M. Downey and C. P. Hepp. No. 58,185; June 21; v. 287; p. 548.
- Lamp-base. O. J. Doerre. No. 59,581; Nov. 8.
- Lamp-base. L. R. Wellman. No. 57,176; Feb. 22; v. 283; p. 721.



- Lamp base, Floor-. D. Schmiedler. No. 57,383; Mar. 15; v. 284; p. 554.  
 Lamp-base, Portable. S. R. Schwartz. No. 59,132; Sept. 20; v. 290; p. 594.  
 Lamp body, Vehicle-. M. S. Haselton. No. 57,974; May 24; v. 286; p. 800.  
 Lamp, Boudoir-. J. S. Apfel. Nos. 58,864-5; Sept. 6; v. 290; p. 141.  
 Lamp-casing. L. R. Sauer. No. 56,946; Jan. 18; v. 282; p. 536.  
 Lamp-casings, Combined hinge and bracket socket-piece for. L. Lapidus. No. 59,498; Oct. 25.  
 Lamp-chimney. W. W. Crowl. No. 57,114; Feb. 22; v. 283; p. 711.  
 Lamp-door. N. Macneale. No. 58,676; Aug. 9; v. 289; p. 371.  
 Lamp fixture, Electric-. J. M. Cruet. Nos. 59,821-2; Nov. 20.  
 Lamp-globe. C. A. Campbell. No. 58,880; Sept. 6; v. 290; p. 144.  
 Lamp-globe. C. A. Campbell. No. 59,813; Nov. 29.  
 Lamp-globe. J. W. Gosling. No. 57,462; Apr. 5; v. 285; p. 154.  
 Lamp, Incandescent electric. A. C. Mannweiler. No. 59,500; Oct. 25.  
 Lamp or other pedestal. F. Roettges. Nos. 59,776-8; Nov. 22.  
 Lamp or other shade. F. Roettges. Nos. 59,779-81; Nov. 22.  
 Lamp, Portable. W. R. Boisvert. Nos. 57,884-5; May 17; v. 286; p. 579.  
 Lamp-shade. D. L. Bevan. No. 58,013; May 31; v. 286; p. 1011.  
 Lamp-shade. A. S. Meadoff. No. 59,852; Nov. 29.  
 Lamp-shade. F. M. Poritz. Nos. 58,102-3; June 7; v. 287; pp. 157-8.  
 Lamp-shade. S. R. Schwartz and A. Bostroem. No. 59,788; Nov. 22.  
 Lamp-shade. B. H. Scotford. No. 59,983; Dec. 13.  
 Lamp-shade. E. H. Strauss. No. 57,793; May 3; v. 286; p. 157.  
 Lamp-shade. C. E. Williams. No. 58,124; June 7; v. 287; p. 161.  
 Lamp-shade. M. F. F. Wilson. No. 59,800; Nov. 22.  
 Lamp-shade, Panel for a. L. L. Katzenstein. No. 59,599; Nov. 8.  
 Lamp-socket, Plural. A. C. Recker. No. 57,930; May 17; v. 286; p. 587.  
 Lamp sockets, Chain-pull for electrical-. L. R. Allen. No. 59,054; Sept. 20; v. 290; p. 578.  
 Lamp-stand. R. J. Baldinger. No. 58,284; July 5; v. 288; p. 163.  
 Lamp-stand. J. G. Fitzgerald. No. 58,559; Aug. 2; v. 289; p. 129.  
 Lamp-stand. E. Papp. No. 56,886; Jan. 4; v. 282; p. 164.  
 Lamp-stand. E. S. Pease. No. 59,979; Dec. 13.  
 Lamp-stand and smoking set, Combination. S. M. Israel. Nos. 58,027-8; May 31; v. 286; p. 1013.  
 Lamp stand, Electric-. C. H. Elliott and A. Supansick. No. 58,898; Sept. 6; v. 290; p. 148.  
 Lamp-support. E. F. McCarthy. No. 59,604; Nov. 8.  
 Lamp support and casing, Combined. W. J. Callahan. No. 58,543; Aug. 2; v. 289; p. 126.  
 Lamps, Leg for candlesticks or other portable. F. S. Crowell. No. 58,074; June 7; v. 287; p. 153.  
 Lamps, Support for. H. H. Wolter. No. 59,168; Sept. 20; v. 290; p. 602.  
 Lantern. R. T. Grady. No. 56,920; Jan. 18; v. 282; p. 531.  
 Lantern-globe, Combined Fresnel and plain. W. N. Manuel and E. Pascucci. No. 57,984; May 24; v. 286; p. 801.  
 Lantern-globe, Fresnel. W. N. Manuel and E. Pascucci. No. 57,985; May 24; v. 286; p. 802.  
 Lanterns, Frame for. P. Mohrmann. No. 59,906; Dec. 6.  
 Lathe, drilling and milling machines, Frame for combination. H. Dalton. No. 54,461; July 26; v. 288; p. 768.  
 Laundries, Time-indicator for use in. E. E. Larocque. No. 58,604; Aug. 2; v. 289; p. 138.  
 Lavalière. S. Szimanski. No. 58,410; July 12; v. 288; p. 383.  
 Leather. C. Brandt. No. 59,884; Dec. 6.  
 Leather football-cover. J. R. Thomlinson. Nos. 58,166-7; June 14; v. 287; p. 359.  
 Leather, wall-paper, or similar article of manufacture. H. G. Wurm. Nos. 59,880-1; Nov. 29.  
 Lens. A. G. Muller and C. McMullen. No. 58,616; Aug. 2; v. 289; p. 140.  
 Lens, Automobile-. H. J. Hands. No. 58,146; June 14; v. 287; p. 356.  
 Lens-blank. H. W. Hill. No. 59,842; Nov. 29.  
 Lens, Blank for an ophthalmic. H. W. Hill. No. 59,747; Nov. 22.  
 Lens, Front of a signal. O. Kroehle. No. 58,916; Sept. 6; v. 290; p. 151.  
 Lens, Headlight-. U. Wegman. No. 58,845; Aug. 30; v. 289; p. 982.  
 Lens or similar article. V. A. Quagliano. No. 60,106; Dec. 27.  
 Lens-plate. H. Dalitz. No. 59,720; Nov. 22.  
 Letter-head. W. P. Southard. No. 57,546; Apr. 12; v. 285; p. 347.  
 Letters, Alphabet of sign-. G. R. Pyper. No. 58,256; June 28; v. 287; p. 735.  
 Level. D. C. Watson. No. 59,943; Dec. 6.  
 Level and gage, Inspector's track. A. T. Richardson. No. 59,927; Dec. 6.  
 Lifting-jack. T. M. Avery. No. 59,883; Dec. 6.  
 Lifting-jack. J. C. Kopf. No. 57,073; Apr. 26; v. 285; p. 735.  
 Lifting-jack. J. C. Kopf. No. 60,044; Dec. 20.  
 Lifting-jack and vise, Combination. D. P. Vick. No. 58,646; Aug. 2; v. 289; p. 145.  
 Light, Automobile parking-. W. Leuckert. No. 59,239; Oct. 4.  
 Light, Ceiling-. M. Klein. No. 57,354; Mar. 15; v. 284; p. 549.  
 Light, Ceiling-. M. Klein. No. 57,359; Mar. 15; v. 284; p. 550.  
 Light-fixture, Suspended. C. H. Helde. Nos. 58,567-8; Aug. 2; v. 289; p. 131.  
 Light for automobiles, &c., Cowl-. A. R. Gross. Nos. 59,212-13; Oct. 4.  
 Light support, Hall-. M. Klein. No. 57,351; Mar. 15; v. 284; p. 548.  
 Lighting device, Street-. H. J. McGee. No. 58,790; Aug. 30; v. 289; p. 971.  
 Lighting-fixture. H. C. Adam. Nos. 56,844-6; Jan. 4; v. 282; p. 157.  
 Lighting-fixture. H. C. Adam. Nos. 57,418-21; Mar. 18; v. 284; p. 910.  
 Lighting-fixture. H. C. Adam. No. 57,563; Apr. 26; v. 285; p. 716.  
 Lighting-fixture. H. C. Adam. Nos. 60,000-1; Dec. 20.  
 Lighting-fixture. R. S. Aspinwall. Nos. 56,848-9; Jan. 4; v. 282; p. 158.  
 Lighting-fixture. S. G. Hibben. No. 59,087; Sept. 20; v. 290; p. 584.  
 Lighting-fixture. R. T. Hughes. Nos. 59,593-4; Nov. 8.  
 Lighting-fixture. M. Klein. Nos. 57,915-17; May 17; v. 286; pp. 584-5.  
 Lighting-fixture. M. Klein. No. 58,149; June 14; v. 287; p. 356.  
 Lighting-fixture. F. K. Maerz. Nos. 57,692-3; Apr. 26; v. 285; p. 739.  
 Lighting-fixture. W. S. Snow. No. 58,114; June 7; v. 287; p. 160.  
 Lighting-fixture. W. A. Weller. Nos. 58,276-8; June 28; v. 287; p. 739.  
 Lighting-fixture. A. A. Wohlauer. No. 56,956; Jan. 18; v. 282; p. 538.  
 Lighting-fixture arm. H. C. Adam. No. 57,562; Apr. 26; v. 285; p. 716.  
 Lighting-fixture arm. R. Kleinman. No. 60,043; Dec. 20.  
 Lighting-fixture arm. H. T. Howell. No. 60,026; Dec. 20.  
 Lighting-fixture arm. S. Kostszewski. No. 57,674; Apr. 26; v. 285; p. 735.  
 Lighting-fixture arm. F. K. Maerz. Nos. 57,690-1; Apr. 26; v. 285; p. 738.  
 Lighting-fixture arm. A. Miller. No. 58,497; July 26; v. 288; p. 776.  
 Lighting-fixture arm. A. J. D. Ohm. No. 57,255; Mar. 8; v. 284; p. 333.  
 Lighting-fixture arm. E. A. Walker. No. 57,957; May 17; v. 286; p. 591.  
 Lighting-fixture arm. G. Westphal. Nos. 60,116-8; Dec. 27.  
 Lighting-fixture, Arm for a portable. M. B. Bowen. Nos. 58,061-4; June 7; v. 287; p. 151.  
 Lighting-fixture, Arm for a portable. W. J. Grady. Nos. 58,083-8; June 7; v. 287; pp. 154-5.  
 Lighting-fixture-arm husk. W. R. Kahns. Nos. 60,035-6; Dec. 20.  
 Lighting-fixture body. H. C. Adam. Nos. 60,002-3; Dec. 20.  
 Lighting-fixture bowl. R. Y. Barrows. Nos. 57,300-1; Mar. 15; v. 284; p. 540.  
 Lighting-fixture bowl-hook. L. R. Wellman. No. 58,003; May 24; v. 286; p. 804.  
 Lighting-fixture-bowl support. H. V. Willman. No. 57,755; Apr. 26; v. 285; p. 750.  
 Lighting-fixture bracket. W. R. Kahns. No. 56,881; Jan. 4; v. 282; p. 163.  
 Lighting-fixture bracket-arm. T. Dahl. No. 58,721; Aug. 30; v. 289; p. 957.  
 Lighting-fixture bracket-back. T. Dahl. No. 58,720; Aug. 30; v. 289; p. 957.  
 Lighting-fixture-bracket back. A. J. D. Ohm. No. 57,254; Mar. 8; v. 284; p. 333.  
 Lighting-fixture candle-cup. T. Dahl. No. 58,722; Aug. 30; v. 289; p. 957.  
 Lighting-fixture canopy. A. J. D. Ohm. No. 58,252; June 28; v. 287; p. 734.  
 Lighting-fixture canopy. G. V. Strahan and F. W. Mathieu. No. 57,944; May 17; v. 286; p. 589.  
 Lighting-fixture, Ceiling-plate for a. G. V. Strahan. Nos. 57,170-1; Feb. 22; v. 283; pp. 720-1.  
 Lighting-fixture, Ceiling-plate for a. G. V. Strahan and F. W. Mathieu. No. 57,943; May 17; v. 286; p. 589.  
 Lighting-fixture hanger. H. H. Kwatnez. Nos. 57,240-2; Mar. 8; v. 284; p. 331.  
 Lighting-fixture hook. A. J. D. Ohm. No. 57,194; Mar. 1; v. 284; p. 145.



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- Lighting-fixture loop. F. E. Chambers. No. 57,585; Apr. 26; v. 285; p. 719.  
 Lighting-fixture loop. G. E. McFadden. No. 57,699; Apr. 26; v. 285; p. 740.  
 Lighting-fixture ornament. H. T. Howell. No. 59,478; Oct. 25.  
 Lighting-fixture part. P. I. Ansoerge. No. 57,423; Mar. 29; v. 284; p. 910.  
 Lighting-fixture plate. H. T. Howell. No. 58,488; July 26; v. 288; p. 774.  
 Lighting-fixture plate. H. T. Howell. No. 60,030; Dec. 20.  
 Lighting-fixture plate. E. A. Walker. No. 57,956; May 17; v. 286; p. 591.  
 Lighting-fixture plate. E. A. Walker. No. 58,517; July 26; v. 288; p. 780.  
 Lighting-fixture plate. L. R. Wellman. No. 57,803; May 3; v. 286; p. 158.  
 Lighting-fixture plate. G. Westphal. No. 57,027; Jan. 25; v. 282; p. 694.  
 Lighting-fixture plate. G. Westphal. No. 57,753; Apr. 26; v. 285; p. 749.  
 Lighting-fixture reflector, Semi-indirect. H. C. Adam. No. 60,004; Dec. 20.  
 Lighting-fixture ring. F. Schwartz. No. 57,278; Mar. 8; v. 284; p. 338.  
 Lighting-fixture ring. C. A. Smith. No. 59,525; Oct. 25.  
 Lighting-fixture-rosette. J. W. Schulze. No. 58,947; Sept. 6; v. 290; p. 157.  
 Lighting-fixture shade. W. T. Blackwell. No. 59,576; Nov. 8.  
 Lighting-fixture shade. T. Dahl. No. 58,719; Aug. 30; v. 289; p. 956.  
 Lighting-fixture shell. D. Frankel. No. 57,221; Mar. 8; v. 284; p. 327.  
 Lighting-fixture, Standard for a. G. V. Strahan. Nos. 57,163-5; Feb. 22; v. 283; pp. 719-20.  
 Lighting-fixture, Standard for a. G. V. Strahan and F. W. Mathieu. No. 59,948; Dec. 6.  
 Lighting-fixture unit. H. Cohn. No. 58,884; Sept. 6; v. 290; p. 145.  
 Lighting-fixture unit. H. Cohn. No. 58,887; Sept. 6; v. 290; p. 146.  
 Lighting-fixture unit. H. Cohn. No. 58,889; Sept. 6; v. 290; p. 146.  
 Lighting-fixture unit. H. Cohn. No. 58,892; Sept. 6; v. 290; p. 147.  
 Lighting-fixture urn. H. C. Adam. Nos. 57,413-17; Mar. 29; v. 284; p. 909.  
 Lighting-fixture urn. H. C. Adam. No. 58,986; Sept. 13; v. 290; p. 378.  
 Lighting-fixture, Wall-bracket. M. Klein. No. 57,360; Mar. 15; v. 284; p. 550.  
 Lighting-fixture, Wall-bracket for a. G. V. Strahan. Nos. 57,161-2; Feb. 22; v. 283; p. 719.  
 Lighting-fixture, Wall-bracket for a. G. V. Strahan. Nos. 57,166-9; Feb. 22; v. 283; p. 720.  
 Lighting-fixture wall-plate. H. C. Adam. No. 58,985; Sept. 13; v. 290; p. 378.  
 Lighting-fixture wall-plate. H. Cohn. No. 58,891; Sept. 6; v. 290; p. 147.  
 Lighting-fixture, Wall-plate of a bracket for a. H. Cohn. No. 58,890; Sept. 6; v. 290; p. 146.  
 Lighting-fixtures, Arm for. M. Klein. No. 58,242; June 28; v. 287; p. 733.  
 Lighting-fixtures, Arm for. M. Klein. No. 58,580; Aug. 2; v. 289; p. 134.  
 Lighting-fixtures, Arm for. S. Kostszewski. No. 59,424; Oct. 18.  
 Lighting-fixtures, Arm for. R. C. Ratto. No. 57,443; Mar. 29; v. 284; p. 914.  
 Lighting-fixtures, Arm of a wall-bracket for. H. Cohn. No. 59,063; Sept. 20; v. 290; p. 580.  
 Lighting-fixtures, Back for. J. W. Schulze. No. 59,435; Oct. 18.  
 Lighting-fixtures, Back-plate of a wall-bracket for. H. Cohn. No. 58,882; Sept. 6; v. 290; p. 144.  
 Lighting-fixtures, Back-plate of a wall-bracket for. H. Cohn. No. 58,886; Sept. 6; v. 290; p. 145.  
 Lighting-fixtures, Back plate of a wall-bracket for. H. Cohn. No. 59,622; Nov. 22.  
 Lighting-fixtures, Body for. M. Klein. No. 58,241; June 28; v. 287; p. 732.  
 Lighting-fixtures, Bracket-arm for. H. Cohn. No. 58,883; Sept. 6; v. 290; p. 145.  
 Lighting-fixtures, Bracket-back for. M. Klein. No. 57,918; May 17; v. 286; p. 585.  
 Lighting-fixtures, Combined wall-bracket and socket-cover for. H. Cohn. No. 58,885; Sept. 6; v. 290; p. 145.  
 Lighting-fixtures, Fixture-arm for. T. Dale. No. 59,415; Oct. 18.  
 Lighting-fixtures, Holder for. F. W. Mathieu. Nos. 59,901-2; Dec. 6.  
 Lighting-fixtures, Knob for arm-husk for. W. R. Kahns. No. 60,037; Dec. 20.  
 Lighting-fixtures, Plate for. E. A. Walker. No. 58,120; June 7; v. 287; p. 161.  
 Lighting-fixtures, Ring for. S. Kostszewski. No. 59,425; Oct. 18.  
 Lighting-fixtures, Ring for. A. Ullman. No. 59,992; Dec. 13.  
 Lighting-fixtures, Socket-cover for. T. Dahl. Nos. 59,413-14; Oct. 18.  
 Lighting-fixtures, Socket-cover for. G. V. Strahan and F. W. Mathieu. Nos. 57,945-6; May 17; v. 286; p. 589.  
 Lighting-fixtures, Standard for. G. V. Strahan and F. W. Mathieu. Nos. 58,407-8; July 12; v. 288; p. 382.  
 Lighting-fixtures, Support-plate for. T. Dahl. Nos. 59,411-12; Oct. 18.  
 Lighting-fixtures, Three-way plate for. H. Cohn. No. 58,888; Sept. 6; v. 290; p. 146.  
 Lighting-globe. W. Harrison. No. 57,463; Apr. 5; v. 285; p. 154.  
 Lighting-globe. A. B. Waggoner. No. 58,171; June 14; v. 287; p. 360.  
 Lighting unit. M. Klein. No. 57,358; Mar. 15; v. 284; p. 549.  
 Lingerie-clasp. C. G. Hultman. No. 58,025; May 31; v. 286; p. 1013.  
 Link. A. Duda. No. 58,729; Aug. 30; v. 289; p. 958.  
 Link, Stranded. A. Duda. No. 58,730; Aug. 30; v. 289; p. 958.  
 Linoleum. W. J. Donnelly. No. 58,556; Aug. 2; v. 289; p. 129.  
 Linoleum, oilcloth, or floor-covering. C. M. Post. Nos. 59,515-22; Oct. 25.  
 Liquid-dispenser. G. D. Sailer. Nos. 58,110-11; June 7; v. 287; p. 159.  
 Liquid-dispenser, Container for a. R. Mueller. No. 59,672; Nov. 15.  
 Liquid-dispensing apparatus. L. E. Baker. No. 58,176; June 21; v. 287; p. 546.  
 Liquid-dispensing apparatus. J. Fleckenstein. No. 57,426; Mar. 29; v. 284; p. 911.  
 Liquid-dispensing apparatus, Portable. T. H. Forrest. No. 60,090; Dec. 27.  
 Lock. E. A. De Lue and C. E. Anable. No. 59,541; Nov. 1.  
 Loom-picker. M. B. Fredericks. No. 59,003; Sept. 13; v. 290; p. 381.  
 Loom-picker, Protective cover for a. M. B. Fredericks. No. 59,002; Sept. 13; v. 290; p. 381.  
 Loom stop-motion, Drop-wire for. J. Regan. No. 58,821; Aug. 30; v. 289; p. 977.  
 Looms, Power-stick clamp for. R. Serafin. No. 59,380; Oct. 11.  
 Lubricating attachment. C. W. Manzel. No. 58,154; June 14; v. 287; p. 357.  
 Lubricator. A. A. Van Orsdale and J. B. Linn. No. 58,169; June 14; v. 287; p. 359.  
 Lubricator-nipple. A. V. Gulborg. No. 59,889; Dec. 6.  
 Mail-box. B. T. Pennig. No. 59,269; Oct. 4.  
 Manicure implement. B. Wigder. No. 58,519; July 26; v. 288; p. 780.  
 Marker. A. J. Dunlap. No. 59,626; Nov. 15.  
 Masher and spoon, Combined culinary. M. Goldsmith. No. 58,223; June 28; v. 287; p. 729.  
 Mask, Respirator. J. W. Knoblock. No. 57,527; Apr. 12; v. 285; p. 343.  
 Mat-holder. S. C. Mendelsohn. No. 59,503; Oct. 25.  
 Match-box. W. Zebra. No. 59,447; Oct. 18.  
 Match-box holder. H. L. Beach. No. 59,402; Oct. 18.  
 Match-box holder. G. Rudroff. No. 57,063; Feb. 1; v. 283; p. 135.  
 Match-box holder. C. G. Watson. No. 57,750; Apr. 26; v. 285; p. 749.  
 Match-receptacle. F. A. Fuller. No. 57,632; Apr. 26; v. 285; p. 728.  
 Match-scratcher. B. Baldwin. No. 60,007; Dec. 20.  
 Matches, Holder for book-. E. A. Merritt. No. 57,923; May 17; v. 286; p. 586.  
 Measuring instrument, Electrical. H. I. Shire. No. 57,934; May 17; v. 286; p. 587.  
 Meat-cutting machine, Frame for a. W. R. Woods and J. F. Langston. No. 59,315; Oct. 4.  
 Meat-loaf-cooker receptacle. H. Adelman. No. 59,171; Oct. 4.  
 Meat-pounder and bone-cutter. H. Hanford. No. 57,334; Mar. 15; v. 284; p. 545.  
 Medal. R. T. Burrill. No. 57,205; Mar. 8; v. 284; p. 325.  
 Medallion. A. J. Laws. No. 59,663; Nov. 15.  
 Medallion. C. A. Stuart. No. 59,302; Oct. 4.  
 Medicinal container. H. D. Sebring. No. 58,948; Sept. 6; v. 290; p. 157.  
 Medicinal tablet, candy, chewing-gum, &c. E. J. Noble. Nos. 59,909-11; Dec. 6.  
 Metal rack. H. L. Beach. No. 59,617; Nov. 15.  
 Metal wheel, Pressed-. W. C. Hine. No. 59,351; Oct. 11.  
 Meter-box. T. E. Murray, Jr. No. 60,055; Dec. 20.  
 Meters or similar measuring instruments, Face-plate for. M. Smithy. No. 57,941; May 17; v. 286; p. 588.  
 Micrometer-caliper, Handle for a. F. O. Jaques, Jr. No. 58,489; July 26; v. 288; p. 774.  
 Micrometer, Inside. C. W. Scott. No. 57,932; May 17; v. 286; p. 587.  
 Microscope and mirror, Combined. J. H. A. Carr. No. 59,579; Nov. 8.  
 Milk-boiler. S. Stapienski. No. 57,064; Feb. 1; v. 283; p. 135.  
 Milking-machines, Pulsator-valve casing for. P. B. Hewlett. No. 57,433; Mar. 29; v. 284; p. 912.  
 Mirror, brush, or similar article, Back of a. F. H. La Pierre. No. 59,237; Oct. 4.



## Alphabetical list of designs—Continued.

- Mirror, brush, or similar toilet article, Back of a. W. S. Bechtold. No. 58,421; July 19; v. 288; p. 565.
- Mirrors, brushes, or similar articles, Back for hand. A. G. Kintz. No. 57,778; May 3; v. 286; p. 154.
- Mirror-scope and parking-light, Combined. W. P. Hammond. No. 58,228; June 28; v. 287; p. 730.
- Mitten, Novelty. C. G. Bujarsky. No. 59,182; Oct. 4.
- Mixer. H. M. Bigelow. No. 59,702; Nov. 22.
- Mixing and stirring device. M. Black. No. 57,883; May 17; v. 286; p. 579.
- Mop-head. M. P. and J. McNaughton. No. 60,103; Dec. 27.
- Motor and air-pump casing, Combination. S. D. Black and A. G. Decker. No. 58,177; June 21; v. 287; p. 547.
- Motor-casing. H. C. Bracht. No. 59,455; Oct. 25.
- Motor-casing. A. Glowicki. No. 58,222; June 28; v. 287; p. 729.
- Motor-tan guard. A. C. Gilbert. No. 58,903; Sept. 6; v. 290; p. 149.
- Motor-vehicle steering-wheel. H. Lee. No. 58,244; June 28; v. 287; p. 733.
- Motorcycle-frame. G. Joassart. No. 57,976; May 24; v. 286; p. 800.
- Motorcycle-trunk. F. J. Romadka. No. 60,108; Dec. 27.
- Motorcycle-side-car body. W. S. Harley. No. 57,335; Mar. 15; v. 284; p. 545.
- Motometer. P. F. Beaulieu. No. 58,698; Aug. 30; v. 289; p. 952.
- Mousetrap, Self-setting. L. Romanson. No. 59,129; Sept. 20; v. 290; p. 594.
- Mud-guard. E. L. Tomlinson. No. 57,799; May 3; v. 286; p. 158.
- Mud-guard brace. E. F. Pawsat. No. 57,378; Mar. 15; v. 284; p. 553.
- Muffler. J. W. Bettmann. No. 59,454; Oct. 25.
- Music-roll-repair device. J. Schirra. No. 58,507; July 26; v. 288; p. 778.
- Musical instruments, Bridge for string. E. W. Plate. No. 59,680; Nov. 15.
- Musical instruments, Bridge for string. E. W. Plate. No. 59,771; Nov. 22.
- Musical instruments, Combined implement for stringed. B. F. Knell. No. 58,768; Aug. 30; v. 289; p. 966.
- Musical instruments, Mouthpiece for. E. A. Couturier. No. 57,511; Apr. 12; v. 285; p. 340.
- Nail. J. Jasus. No. 58,442; July 19; v. 288; p. 570.
- Nail-set. B. W. Frampton. No. 57,630; Apr. 26; v. 285; p. 727.
- Nail-set. W. A. Peck. No. 58,502; July 26; v. 288; p. 778.
- Name-plate. G. M. Webber. No. 57,752; Apr. 26; v. 285; p. 749.
- Narrow fabric. D. C. Frank. Nos. 58,475-6; July 26; v. 288; p. 771.
- Necktie or similar article. A. Morar. No. 59,563; Nov. 1.
- Neckties, Holder for. M. L. Grossman. No. 56,870; Jan. 4; v. 282; p. 162.
- Netted fabric. H. T. Mendelsohn. No. 57,539; Apr. 12; v. 285; p. 345.
- Newspaper and parcel holder. P. Jacovini. No. 59,492; Oct. 25.
- Newspaper-vending box and trash-receptacle, Combined. C. D. O'Rourke. No. 58,816; Aug. 30; v. 289; p. 976.
- Non-skid chains, Anchor-yoke for. W. N. Schleicher. No. 59,384; Oct. 11.
- Note, Bank-. A. S. Major. No. 59,019; Sept. 13; v. 290; p. 384.
- Nut-wrench. G. Allen. No. 57,068; Feb. 8; v. 283; p. 321.
- Oil-burner. E. W. Mahan. No. 60,102; Dec. 27.
- Oil-burner body. C. B. Webb. No. 59,995; Dec. 13.
- Oil-gun reservoir. B. H. Skelly. No. 60,112; Dec. 27.
- Oil-stove and lamp-frame, Combined. A. E. K. Lukaszewska. No. 57,688; Apr. 26; v. 285; p. 738.
- Omnibus body, Motor-. S. Gage. No. 58,288; July 5; v. 288; p. 164.
- Ophthalmic mountings, Frame member of. E. L. Schumacher and W. H. Boutelle. No. 59,873; Nov. 29.
- Ornamentation for an article of manufacture. W. T. Osborne. Nos. 57,411-12; Mar. 22; v. 284; p. 723.
- Ornamentation for an article of manufacture, Surface. B. Holz. No. 58,328; July 12; v. 288; p. 364.
- Oven, Bake-. F. A. Heroux. No. 57,432; Mar. 29; v. 284; p. 912.
- Oven, Baking-. A. Levitt. No. 57,243; Mar. 8; v. 284; p. 331.
- Ovens, Insulator-porcelain for electric. F. W. Moffat. Nos. 58,805-6; Aug. 30; v. 289; p. 974.
- Ovenware, Frame for. C. Andrews, Jr. Nos. 58,205-7; July 28; v. 287; pp. 726-7.
- Overcoat, ulster, or a sport sack-coat. S. S. Jackson. No. 58,572; Aug. 2; v. 289; p. 132.
- Overcoats, Supplementary waist for men's. L. F. Amsden. No. 58,301; July 12; v. 288; p. 358.
- Packing-gaskets, Display-package of. F. A. Laraway. No. 57,531; Apr. 12; v. 285; p. 344.
- Pail. J. H. Wilson. No. 58,053; May 31; v. 286; p. 1018.
- Palm-stand. W. O'Blaza. No. 57,145; Feb. 22; v. 283; p. 716.
- Paneled stock-pot. H. A. Church. No. 58,546; Aug. 2; v. 289; p. 127.
- Paper bag. H. and S. Sterenbuch. No. 57,023; Jan. 25; v. 282; p. 693.
- Paper-cutter or similar article, Frame for a. A. G. Danielson. No. 59,064; Sept. 20; v. 290; p. 580.
- Paper doll. F. Benson. No. 58,868; Sept. 6; v. 290; p. 142.
- Paper doll. F. Benson. Nos. 59,175-6; Oct. 4.
- Paper doll. F. Benson. No. 59,810; Nov. 29.
- Paper, Embossed wall-. A. Ainsworth. Nos. 58,527-9; Aug. 2; v. 289; pp. 123-4.
- Paper fork. G. P. Mallory. No. 58,807; Aug. 30; v. 289; p. 974.
- Paper-tablet cover, Writing-. L. R. Linscott. No. 59,558; Nov. 1.
- Paper-weight. C. D. Hudson. No. 59,656; Nov. 15.
- Paper-weight. P. C. Wentworth. No. 58,651; Aug. 2; v. 289; p. 146.
- Partitions, &c., in showcases, Clamp for holding. J. D. Moser. No. 59,670; Nov. 15.
- Pastry-lifter. W. G. Wilson. No. 59,313; Oct. 4.
- Pastry-tool. J. C. Brown. No. 57,815; May 10; v. 286; p. 369.
- Pedestal. M. Blickman. Nos. 58,059-60; June 7; v. 287; p. 150-1.
- Peeling disk, Vegetable-. C. F. Smith. No. 58,046; May 31; v. 286; p. 1016.
- Pen and pencil case. J. H. Worthy and C. W. Lund. No. 59,052; Sept. 13; v. 290; p. 391.
- Pen and pencil clip blank. W. Neuswanger. No. 58,618; Aug. 2; v. 289; p. 140.
- Pen and pencil, Combination fountain. S. Zdanowicz. No. 59,945; Dec. 6.
- Pen and pencil holder. O. B. Fish. Nos. 58,425-34; July 19; v. 288; pp. 566-8.
- Pen or pencil case. J. C. Wahl. Nos. 57,403-5; Mar. 15; v. 284; p. 557.
- Pen or pencil case. J. C. Wahl. No. 58,516; July 26; v. 288; p. 780.
- Pen or pencil-case. J. C. Wahl. Nos. 58,693-4; Aug. 9; v. 289; p. 374.
- Pen, pencil, penknife, or similar article, Surface ornamentation for a. E. Todd, Jr. Nos. 58,000-1; May 24; v. 286; p. 804.
- Pencil. H. L. Fischer. No. 59,731; Nov. 22.
- Pencil. M. P. D. Fortune. No. 57,520; Apr. 12; v. 285; p. 342.
- Pencil. W. A. Sheaffer. No. 59,035; Sept. 13; v. 290; p. 387.
- Pencil-cap. E. E. Knisely. No. 59,013; Sept. 13; v. 290; p. 383.
- Pencil, Lead-. A. J. Taussig. Nos. 57,397-9; Mar. 15; v. 284; p. 556.
- Pencils, Case for. W. Peshkin. No. 58,398; July 12; v. 288; p. 380.
- Pendant for lighting means. F. M. Poritz. No. 57,789; May 3; v. 286; p. 156.
- Pendant, Masonic. E. E. M. Barton. No. 58,304; July 12; v. 288; p. 359.
- Pendant, Self-illuminating. T. C. Smith. No. 58,047; May 31; v. 286; p. 1017.
- Pendant switch. L. J. Streun. No. 58,838; Aug. 30; v. 289; p. 980.
- Pennant. E. C. Briggs. No. 57,583; Apr. 26; v. 285; p. 719.
- Pennant. M. W. Hillgardner. No. 56,970; Jan. 25; v. 282; p. 686.
- Pennant. C. W. Marks. No. 58,393; July 12; v. 288; p. 379.
- Percolator. A. W. Paull. No. 58,818; Aug. 30; v. 289; p. 977.
- Percolator, Aluminum coffee-. H. A. Church. No. 60,011; Dec. 20.
- Percolator, urn, or similar article. R. J. Bourgeois and G. P. Ittig. No. 57,814; May 10; v. 286; p. 369.
- Perfumer and disinfector, Combined. A. J. Flauder. No. 59,468; Oct. 25.
- Perfumer and disinfector, Combined. A. J. Flauder. Nos. 59,829-31; Nov. 29.
- Petticoat. M. A. Williams. No. 58,414; July 12; v. 288; p. 383.
- Phonetic instruments, Housing for. H. G. Pape. No. 57,718; Apr. 26; v. 285; p. 743.
- Phonograph. F. Luculano. No. 58,148; June 14; v. 287; p. 356.
- Phonograph. W. H. Thommen. No. 59,989; Dec. 13.
- Phonograph. M. Wolak. No. 57,409; Mar. 15; v. 284; p. 558.
- Phonograph-cabinet. R. C. Aimone. Nos. 57,564-5; Apr. 26; v. 285; p. 716.
- Phonograph-cabinet. P. A. Bergman. No. 57,882; May 17; v. 286; p. 579.
- Phonograph-cabinet. K. Bergvelt. No. 56,853; Jan. 4; v. 282; p. 159.
- Phonograph-cabinet. E. A. Caviness. Nos. 59,331-2; Oct. 11.
- Phonograph-cabinet. E. R. Conley. No. 59,337; Oct. 11.
- Phonograph-cabinet. E. C. Cook. Nos. 57,313-4; Mar. 15; v. 284; p. 542.
- Phonograph-cabinet. C. E. Ferreira. No. 57,895; May 17; v. 286; p. 581.
- Phonograph-cabinet. G. R. Gramitto. No. 58,437; July 19; v. 288; p. 569.
- Phonograph-cabinet. E. F. Harper. No. 58,748; Aug. 30; v. 289; p. 962.



*Alphabetical list of designs—Continued.*

- Phonograph-cabinet. W. B. Hollingshead. No. 57,652; Apr. 26; v. 285; p. 731.
- Phonograph-cabinet. E. C. Howard. Nos. 57,903-8; May 17; v. 286; pp. 582-3.
- Phonograph-cabinet. E. C. Howard. Nos. 59,749-51; Nov. 22.
- Phonograph, Cabinet-. W. Lane. No. 57,680; Apr. 26; v. 285; p. 736.
- Phonograph-cabinet. A. F. La Pierre. Nos. 57,678-9; Apr. 26; v. 285; p. 736.
- Phonograph-cabinet. D. S. Malone. No. 57,365; Mar. 15; v. 284; p. 551.
- Phonograph-cabinet. W. E. Meiding, Sr. No. 58,924; Sept. 6; v. 290; p. 153.
- Phonograph-cabinet. H. L. Meidinger. No. 58,677; Aug. 9; v. 289; p. 371.
- Phonograph-cabinet. H. Orsenigo. Nos. 57,081-94; Feb. 8; v. 283; pp. 324-6.
- Phonograph-cabinet. H. Orsenigo. No. 57,857; May 10; v. 286; p. 377.
- Phonograph-cabinet. A. W. J. Schuler. Nos. 57,195-6; Mar. 1; v. 284; pp. 145-6.
- Phonograph-cabinet. A. W. J. Schuler. No. 57,931; May 17; v. 286; p. 587.
- Phonograph-cabinet. M. J. Stone. Nos. 57,389-93; Mar. 15; v. 284; p. 555.
- Phonograph-cabinet. J. J. Warner. No. 57,959; May 17; v. 286; p. 591.
- Phonograph-cabinet. C. T. Wittstein. No. 58,125; June 7; v. 287; p. 161.
- Phonograph-cabinet. C. T. Wittstein. Nos. 58,963-78; Sept. 6; v. 290; pp. 160-3.
- Phonograph-cabinet. C. T. Wittstein. No. 59,802; Nov. 22.
- Phonograph-cabinet. J. Wolff. No. 57,178; Feb. 22; v. 283; p. 722.
- Phonograph-cabinet. J. Wolff. Nos. 58,655-6; Aug. 2; v. 289; p. 147.
- Phonograph-cabinet, desk, and bookcase, Combined. E. Friberg. No. 56,917; Jan. 18; v. 282; p. 531.
- Phonograph, Cabinet for. R. W. Morrison. No. 58,614; Aug. 2; v. 289; p. 139.
- Phonograph-cabinets and organs, Grille for. S. K. Ouzoun-Boghossian. No. 58,624; Aug. 2; v. 289; p. 141.
- Phonograph-case. J. A. Fern. Nos. 57,828-9; May 10; v. 286; p. 372.
- Phonograph-case. J. M. Waddell. Nos. 58,647-8; Aug. 2; v. 289; p. 146.
- Phonograph-casing. G. R. Kunkle. No. 58,150; June 14; v. 287; p. 356.
- Phonograph-motors, Motor-board for. T. C. Roberts. No. 59,929; Dec. 6.
- Phonograph, Portable. C. E. Dodson. No. 57,410; Mar. 22; v. 284; p. 722.
- Phonograph-record case. J. H. Davis. No. 57,187; Mar. 1; v. 284; p. 144.
- Phonograph. Sound-box for a. E. C. Howard. No. 59,960; Dec. 13.
- Phonograph tone-arm. F. Huschler. No. 57,344; Mar. 15; v. 284; p. 547.
- Phonograph tone-arm. H. K. Sandell. No. 58,834; Aug. 30; v. 289; p. 979.
- Phonographs, Sound-conduit for. E. C. Howard. No. 59,752; Nov. 22.
- Phonographs, Speaking-tube for. N. C. Durand. No. 59,543; Nov. 1.
- Phonographs, Tone-arm for. E. Fletcher. No. 59,832; Nov. 29.
- Photograph-holder. R. L. Gardner. No. 57,188; Mar. 1; v. 284; p. 144.
- Physician's traffic signal. J. B. McAfee. No. 58,097; June 7; v. 287; p. 157.
- Piano-bench. J. Golubski. No. 57,328; Mar. 15; v. 284; p. 544.
- Piano-case. G. C. Kavanaugh. No. 56,973; Jan. 25; v. 282; p. 686.
- Picture-frame. J. Kush. No. 60,045; Dec. 20.
- Picture-frame. T. M. Norskov. No. 57,253; Mar. 8; v. 284; p. 333.
- Picture-frame. Z. Sobczak. No. 59,938; Dec. 6.
- Picture-frame. R. Wisser. No. 57,029; Jan. 25; v. 282; p. 695.
- Picture, Framed. C. Smykowski. No. 58,636; Aug. 2; v. 289; p. 144.
- Picture machine, Moving. F. W. Hochstetter. No. 59,958; Dec. 13.
- Picture, mirror, or like frame. A. Swientek. No. 59,303; Oct. 4.
- Pillow-sham holders, Bracket for. H. F. Ollis. No. 58,619; Aug. 2; v. 289; p. 140.
- Pin. B. E. Laskey. No. 58,443; July 19; v. 288; p. 570.
- Pin. M. Manfredy. No. 59,020; Sept. 13; v. 290; p. 384.
- Pin. N. A. Smith. No. 57,283; Mar. 8; v. 284; p. 339.
- Pin. H. R. Stine. No. 56,896; Jan. 4; v. 282; p. 167.
- Pin-holder. L. Z. Gunn. No. 59,588; Nov. 8.
- Pin, punch, or similar tool. Finger-grip portion of a. A. W. Marcy. No. 57,139; Feb. 22; v. 283; p. 715.
- Pin or emblem, Class. J. C. Miller. No. 57,704; Apr. 26; v. 285; p. 741.
- Pin, watch-fob, lapel-button, ring, belt-buckle, seal, pin-button, watchcase, or similar article. F. S. Land. No. 59,497; Oct. 25.
- Pincushion. M. J. Willmann. No. 58,962; Sept. 6; v. 290; p. 160.
- Pinwheel. W. C. Heindl. No. 60,094; Dec. 27.
- Pincers. A. L. Evenden and J. D. and J. A. Casey. No. 59,827; Nov. 29.
- Pipe-coupling. D. M. Tulloch. No. 59,942; Dec. 6.
- Pipe-hanger. J. Hojnowski. No. 57,228; Mar. 8; v. 284; p. 329.
- Pipe holder, Smoking-. H. F. Stuhr. No. 60,069; Dec. 20.
- Pipe-union nipple. W. H. Humphrey. Nos. 56,925-7; Jan. 18; v. 282; p. 532.
- Pipe-union nipple. W. H. Humphrey. No. 57,343; Mar. 15; v. 284; p. 547.
- Pipe-wrench. G. Allen. No. 57,069; Feb. 8; v. 283; p. 321.
- Pistol-guide. M. G. Nixon. No. 59,861; Nov. 20.
- Piston-ring. H. C. Doan and C. J. Marson. No. 57,319; Mar. 15; v. 284; p. 543.
- Pitcher. A. J. Vits. No. 57,487; Apr. 5; v. 285; p. 158.
- Planing-machine frame. I. T. Howard. No. 59,421; Oct. 18.
- Plant-protector. W. C. and E. C. Clark and L. Wehrheim. No. 59,885; Dec. 6.
- Plaque or thermometer-support. C. J. Balliett. No. 57,460; Apr. 5; v. 285; p. 154.
- Plate. T. Kotato. Nos. 58,581-600; Aug. 2; v. 289; pp. 134-7.
- Plate. A. A. Meeker. No. 58,248; June 28; v. 287; p. 734.
- Plate. E. L. Schnepf. No. 58,633; Aug. 2; v. 289; p. 143.
- Plate and another designating device, Frame for holding a number-. H. A. Thayer. No. 58,839; Aug. 30; v. 289; p. 980.
- Plate and similar article. M. M. Engelhardt. No. 59,205; Oct. 4.
- Plate, Cake-. J. Beiswanger. (Reissue.) No. 15,054; Mar. 8; v. 284; p. 322.
- Plate, Dinner-. E. J. Meissner. No. 58,039; May 31; v. 286; p. 1015.
- Plate, Name-. C. H. Lynch. No. 59,365; Oct. 11.
- Plate or similar article. A. Beyrand. Nos. 58,211-13; June 28; v. 287; pp. 727-8.
- Plate or similar article. A. Bihr. No. 59,406; Oct. 18.
- Plate or similar article. R. T. Dixon. Nos. 57,817-8; Mar. 15; v. 284; pp. 542-3.
- Plate or similar article. M. M. Engelhardt. No. 58,471; July 26; v. 288; p. 770.
- Plate or similar article. A. F. Hancock. No. 57,646; Apr. 26; v. 285; p. 730.
- Plate or similar article. S. I. Morley. No. 58,040; May 31; v. 286; p. 1015.
- Plate or similar article of tableware. H. C. Whorf. No. 59,446; Oct. 18.
- Plate, Refreshment-. M. McInerney. No. 58,038; May 31; v. 286; p. 1015.
- Playing-cards. J. G. Stickney. No. 59,527; Oct. 25.
- Plier-handle, Ornamentation of a. A. A. Krauter. No. 59,602; Nov. 8.
- Plier-handles or similar tools, Ornamentation for. E. W. Myers. No. 59,506; Oct. 25.
- Pliers. F. S. Durham. No. 58,467; July 26; v. 288; p. 770.
- Pliers or similar gripping-surfaces, Handle for. E. W. Myers. No. 57,252; Mar. 8; v. 284; p. 333.
- Plug cap, Attachment-. C. J. Klein. No. 57,841; May 10; v. 286; p. 374.
- Plug-contact device. W. E. Nourse. No. 57,713; Apr. 26; v. 285; p. 742.
- Plug device, Face of an electrical attachment-. G. W. Goodridge. No. 58,032; June 7; v. 287; p. 154.
- Plug or connector, Attachment. W. H. Harrington. No. 59,840; Nov. 29.
- Plug receptacle, Attachment-. H. Hubbell. No. 57,655; Apr. 26; v. 285; p. 732.
- Pocket member. B. Levy. No. 59,759; Nov. 22.
- Police-billy. F. Biffar, Jr. No. 58,214; June 28; v. 287; p. 728.
- Polycycle. S. Sala and K. Dabrowski. No. 57,993; May 24; v. 286; p. 803.
- Posts, Cap for. A. J. Schultz. Nos. 58,508-10; July 26; v. 288; pp. 778-9.
- Potato masher and ricer. H. P. Roberts. No. 57,862; May 10; v. 286; p. 378.
- Powder and other commodities, Receptacle for toilet. L. A. Wegenaar. No. 59,311; Oct. 4.
- Powder-box. J. W. Harrington. No. 58,905; Sept. 6; v. 290; p. 149.
- Powder box, Talcum-. F. Eberhart. No. 57,893; May 17; v. 286; p. 581.
- Powder box, Talcum-. E. Hoffman. Nos. 58,752-5; Aug. 30; v. 289; p. 963.
- Powder box, Talcum-. E. Hoffman. No. 58,906; Sept. 6; v. 290; p. 149.
- Powder-can or similar receptacle, Sifter-top for a. C. S. Humphrey. No. 58,026; May 31; v. 286; p. 1013.
- Powder-container. A. E. Bruns. No. 58,709; Aug. 30; v. 289; p. 955.
- Powder-container. C. S. Humphrey. No. 58,570; Aug. 2; v. 289; p. 132.
- Powder-container or similar receptacle. C. S. Humphrey. Nos. 57,524-5; Apr. 12; v. 285; p. 342.
- Powder-container or similar receptacle. C. S. Humphrey. Nos. 59,479-90; Oct. 25.
- Powder container or similar receptacle. C. S. Humphrey. No. 59,595; Nov. 8.
- Powder-container top. F. S. Hyatt. No. 58,909; Sept. 6; v. 290; p. 150.



*Alphabetical list of designs—Continued.*

- Powder-container tops, Cap for. F. S. Hyatt. No. 58,571; Aug. 2; v. 289; p. 132.  
 Powder-container tops, Slip-cap for. F. S. Hyatt. Nos. 59,596-7; Nov. 8.  
 Powder or similar articles, Container for sachet-. W. S. Stock. No. 59,438; Oct. 18.  
 Powder, Receptacle for toilet. L. A. Wegenaar. Nos. 58,265-75; June 28; v. 287; pp. 737-8.  
 Power plant. L. B. and E. W. Jones and R. G. Battin. No. 59,228; Oct. 4.  
 Power plant, Cabinet for an electrical. B. A. Linderman. No. 57,078; Feb. 8; v. 283; p. 323.  
 Power-transmitting-belt. D. F. Morgan. No. 57,144; Feb. 22; v. 283; p. 716.  
 Precious or imitation stone. G. W. Korper. No. 56,977; Jan. 25; v. 282; p. 687.  
 Precious, semiprecious, or synthetic stone or imitation thereof. J. Kraus. Nos. 59,233-5; Oct. 4.  
 Precious-stone setting. L. Hirsch. No. 56,971; Jan. 25; v. 282; p. 686.  
 Pressure-indicating gage. C. Gaston. No. 58,477; July 26; v. 288; p. 772.  
 Pressure-indicating gage. C. Gaston. No. 60,020; Dec. 20.  
 Prick-punch, nail-set, or article of similar nature. A. H. Starrett. No. 57,548; Apr. 12; v. 285; p. 347.  
 Printer's gage. D. Turtle. No. 60,073; Dec. 20.  
 Puff for applying powder and liquid preparations. F. Lobl. No. 57,685; Apr. 26; v. 285; p. 737.  
 Pump-casing. S. S. Cramer. No. 57,035; Feb. 1; v. 283; p. 130.  
 Pump-casing. G. W. Garman. No. 57,039; Feb. 1; v. 283; p. 130.  
 Pump-casing. P. A. Myers. No. 57,371; Mar. 15; v. 284; p. 551.  
 Pump casing, Rotary-. J. B. Jensen. No. 58,188; June 21; v. 287; p. 548.  
 Pump, Liquid-soap. E. G. Watrous. No. 57,175; Feb. 22; v. 283; p. 721.  
 Pumps, Air injector for. L. L. Taylor. No. 59,877; Nov. 29.  
 Purse, Coin-. F. Petersen. No. 60,058; Dec. 20.  
 Puzzle device. C. R. Palmer. No. 58,625; Aug. 2; v. 289; p. 141.  
 Pyrometer. H. B. Brown. No. 57,493; Apr. 12; v. 285; p. 337.  
 Quilt. F. G. Lentz. No. 59,018; Sept. 13; v. 290; p. 384.  
 Rack. C. C. Dudley. No. 58,557; Aug. 2; v. 289; p. 120.  
 Rack. L. S. Gulick. No. 58,089; June 7; v. 287; p. 155.  
 Radiator. L. Courtot. No. 58,424; July 19; v. 288; p. 566.  
 Radiator. A. Kehm. No. 58,189; June 21; v. 287; p. 548.  
 Radiator. R. Stahl. No. 57,998; May 24; v. 286; p. 804.  
 Radiator and hood, Combined automobile. J. L. Cracraft. No. 58,287; July 5; v. 288; p. 163.  
 Radiator, Automobile-. A. M. Maris. No. 57,140; Feb. 22; v. 283; p. 715.  
 Radiator, Automobile-. F. Richard. No. 57,726; Apr. 26; v. 285; p. 745.  
 Radiator, Automobile-. M. H. L. Sizaire. No. 57,736; Apr. 26; v. 285; p. 746.  
 Radiator-cap. E. W. Austin. No. 57,761; May 3; v. 286; p. 151.  
 Radiator-cap. O. E. Black. No. 58,874; Sept. 6; v. 290; p. 143.  
 Radiator-cap. J. P. Cavanaugh and S. C. Porter. No. 59,330; Oct. 11.  
 Radiator-cap. H. R. Clifford. No. 58,286; July 5; v. 288; p. 163.  
 Radiator-cap. C. B. Coombs. No. 58,136; June 14; v. 287; p. 354.  
 Radiator-cap. J. J. Halloran. No. 58,292; July 5; v. 288; p. 164.  
 Radiator-cap. W. C. Haun. No. 58,147; June 14; v. 287; p. 356.  
 Radiator-cap. R. H. Hummert. No. 58,908; Sept. 6; v. 290; p. 150.  
 Radiator-cap. S. Jaffe. No. 57,658; Apr. 26; v. 285; p. 732.  
 Radiator-cap. A. L. Litchfield. No. 59,363; Oct. 11.  
 Radiator-cap. R. F. Miller. No. 57,441; Mar. 29; v. 284; p. 914.  
 Radiator-cap. H. C. Stutz. No. 57,741; Apr. 26; v. 285; p. 747.  
 Radiator-cap. H. J. Tauscher. No. 58,514; July 26; v. 288; p. 780.  
 Radiator-cap. W. Van Guilder. Nos. 59,390-1; Oct. 11.  
 Radiator-cap. F. G. Whittington. No. 58,848; Aug. 30; v. 289; p. 982.  
 Radiator-cap. F. G. Whittington. No. 59,395; Oct. 11.  
 Radiator-cap. I. L. Wolkow. No. 57,805; May 3; v. 286; p. 158.  
 Radiator cap, Automobile-. V. J. Dupies. No. 59,341; Oct. 11.  
 Radiator cap, Automobile-. J. W. Lake and J. R. Chesnut. No. 57,677; Apr. 26; v. 285; p. 736.  
 Radiator cap ornament. C. E. Elliott and O. O. Nichols. No. 58,899; Sept. 6; v. 290; p. 148.  
 Radiator cap ornament. A. Travers. No. 59,878; Nov. 29.  
 Radiator cap ornament. L. K. Woodard. No. 58,283; June 28; v. 287; p. 740.  
 Radiator cap with temperature-indicator. W. Van Guilder. No. 59,392; Oct. 11.  
 Radiator casing, Automobile-. E. H. Belden. No. 58,422; July 19; v. 288; p. 565.  
 Radiator-filling cap. F. A. Ruckman. No. 58,630; Aug. 2; v. 289; p. 142.  
 Radiator for an automobile. A. O. Holtom and J. B. Crockett. No. 58,907; Sept. 6; v. 290; p. 149.  
 Radiator for automobiles. R. Stahl. No. 59,876; Nov. 29.  
 Radiator front, Air-cell formation of an automobile-. E. H. Cross. No. 59,457; Oct. 25.  
 Radiator, Motor-vehicle. V. W. Page. No. 57,784; May 3; v. 286; p. 155.  
 Radiator ornament. C. E. Elliott and O. L. Nichols. No. 59,725; Nov. 22.  
 Radiator, Refrigerating-. A. Kehm. No. 58,190; June 21; v. 287; p. 548.  
 Radiator, Refrigerating-. A. Kehm. No. 59,229; Oct. 4.  
 Radiator-repairing-machine frame, Automobile-. E. B. Thompson. No. 57,794; May 3; v. 286; p. 157.  
 Radiator-section. L. Courtot. No. 57,818; May 10; v. 286; p. 370.  
 Radiator-shell. G. S. Duarte. No. 59,724; Nov. 22.  
 Radiator-shell. W. Sparks. No. 57,738; Apr. 26; v. 285; p. 747.  
 Radiator shell or hood, Automobile-. E. C. De Smet. No. 57,592; Apr. 26; v. 285; p. 721.  
 Radiators, Cap for automobile-. A. L. McGregor. No. 58,294; July 5; v. 288; p. 165.  
 Radiometer-case. H. Barnes. No. 57,762; May 3; v. 286; p. 151.  
 Radiopanel, Instrument-mount for. A. P. Morgan. No. 58,808; Aug. 30; v. 289; p. 974.  
 Rail-bond terminal. J. R. Brown. No. 58,016; May 31; v. 286; p. 1011.  
 Rail-bond terminal, Electric. W. P. Bovard. No. 57,308; Mar. 15; v. 284; p. 541.  
 Rail-joint chair. J. A. Grapes. No. 57,331; Mar. 15; v. 284; p. 545.  
 Railway-spike. F. M. Embanks. No. 58,221; June 28; v. 287; p. 729.  
 Ramekin. J. Beiswanger. No. 57,181; Mar. 1; v. 284; p. 143.  
 Rattle. F. H. Holley. Nos. 58,234-5; June 28; v. 287; p. 731.  
 Rattle. F. C. Monkhouse. No. 58,157; June 14; v. 287; p. 357.  
 Rattle. L. Morse. Nos. 58,159-60; June 14; v. 287; p. 358.  
 Rattle, Baby's. M. Patremio. No. 56,887; Jan. 4; v. 282; p. 164.  
 Rattle, Teething-. J. Davis. No. 58,075; June 7; v. 287; p. 153.  
 Razor-blade. H. P. MacLagan. No. 59,243; Oct. 4.  
 Razor blade, Safety-. H. J. Gaisman. No. 59,345; Oct. 11.  
 Razor-knife. J. P. Gits. No. 57,636; Apr. 26; v. 285; p. 729.  
 Razor, Safety-. C. Elsener. No. 59,544; Nov. 1.  
 Receptacle. I. R. Parsons. No. 58,254; June 28; v. 287; p. 735.  
 Receptacle, Boudoir-. M. Hamilton. No. 57,333; Mar. 15; v. 284; p. 545.  
 Receptacle, Combined garter and powder-puff. A. Heald. No. 58,316; July 12; v. 288; p. 361.  
 Receptacle, Fluid-receiving. L. Gudeman. Nos. 58,290-1; July 5; v. 288; p. 164.  
 Receptacle-plug. P. R. Collier. No. 58,019; May 31; v. 286; p. 1012.  
 Receptacle, Sifter-top. M. Wolf. No. 58,654; Aug. 2; v. 289; p. 147.  
 Receptacles, Casing for street-. F. F. Dickerman. No. 57,593; Apr. 26; v. 285; p. 721.  
 Rectifier. J. K. Elderkin. No. 59,628; Nov. 15.  
 Reflector. R. B. Benjamin. No. 59,056; Sept. 20; v. 290; p. 578.  
 Reflector. E. Zimmermann, Jr. No. 59,448; Oct. 18.  
 Reflector, Automobile-. E. G. Johanson. No. 57,055; Feb. 1; v. 283; p. 133.  
 Reflector, Automobile-. E. G. Johanson. No. 57,912; May 17; v. 286; p. 584.  
 Reflectors. J. S. Massey. No. 58,923; Sept. 6; v. 290; p. 152.  
 Refrigerant, Iceless. E. S. Pease. No. 58,501; July 26; v. 288; p. 777.  
 Refrigerator compressor-casing, Domestic-. C. F. Geiger and F. C. Geller. No. 57,326; Mar. 15; v. 284; p. 544.  
 Regulating apparatus, Control-handle for. A. H. Grebe. No. 57,900; May 17; v. 286; p. 582.  
 Respirator. J. W. Knoblock. No. 57,528; Apr. 12; v. 285; p. 343.  
 Respirator filter-ring. F. Willson. No. 60,078; Dec. 20.  
 Ribbon-clasp. S. Bruner. No. 59,620; Nov. 15.  
 Ribbon waldemar, sautoir, or the like, Slide for. C. H. Sherman. No. 58,835; Aug. 30; v. 289; p. 980.  
 Ring. F. J. Binder. No. 56,854; Jan. 4; v. 282; p. 159.  
 Ring. V. H. Cohn. Nos. 59,195-6; Oct. 4.  
 Ring. J. A. Jacobs. No. 56,878; Jan. 4; v. 282; p. 163.  
 Ring. J. W. Mayer. No. 59,665; Nov. 15.  
 Ring. R. E. Redeker. No. 58,400; July 12; v. 288; p. 380.  
 Ring. M. Rossein. No. 57,728; Apr. 26; v. 285; p. 745.  
 Ring. M. Simson. Nos. 57,280-1; Mar. 8; v. 284; p. 338.  
 Ring. W. L. Steffen. No. 59,300; Oct. 4.



*Alphabetical list of designs—Continued.*

- Ring, bar-pin, or similar article, Finger-. H. P. Hurt. No. 56,972; Jan. 25; v. 282; p. 686.
- Ring, bracelet, or the like. F. A. Wittstein. Nos. 58,981-2; Sept. 6; v. 290; p. 164.
- Ring, brooch, or pin. P. B. Johnston. No. 58,386; July 12; v. 288; p. 378.
- Ring, Finger-. C. W. Bailey. No. 59,948; Dec. 13.
- Ring, Finger-. I. Bernstein. No. 59,453; Oct. 25.
- Ring, Finger-. E. E. Bross. No. 58,875; Sept. 6; v. 290; p. 143.
- Ring, Finger-. J. L. Chambers. No. 59,188; Oct. 4.
- Ring, Finger-. J. A. Jacobs. No. 57,657; Apr. 26; v. 285; p. 732.
- Ring, Finger-. C. McWilliams. No. 57,247; Mar. 8; v. 284; p. 332.
- Ring, Finger-. F. E. Peloquin. No. 59,605; Nov. 8.
- Ring, Finger-. W. C. Ramstein. No. 58,820; Aug. 20; v. 289; p. 977.
- Ring, Finger-. H. Rufeisen. No. 59,523; Oct. 25.
- Ring, Finger-. A. H. Ulbrich. No. 59,694; Nov. 15.
- Ring, Finger-. J. Winsen. No. 59,314; Oct. 4.
- Ring, Finger-. F. H. Wittstein. Nos. 58,979-80; Sept. 6; v. 290; p. 164.
- Ring-gage. J. Bath. No. 56,850; Jan. 4; v. 282; p. 158.
- Ring or like article. M. L. Bowden. No. 56,856; Jan. 4; v. 282; p. 159.
- Ring or like article. M. L. Robbins. No. 58,401; July 12; v. 288; p. 381.
- Ring or similar article. J. W. Mayer. No. 57,245; Mar. 8; v. 284; p. 332.
- Ring or similar article. J. W. Mayer. No. 57,538; Apr. 12; v. 285; p. 345.
- Ring or similar article. J. W. Mayer. Nos. 59,249-52; Oct. 4.
- Ring or similar article. J. W. Mayer. No. 60,047; Dec. 20.
- Ring or similar article, Finger-. J. Kreisler. No. 59,495; Oct. 25.
- Ring or similar article of manufacture. M. Seiger. No. 59,874; Nov. 29.
- Ring, Setting for a finger-. I. Roskin. No. 59,568; Nov. 1.
- Ring, Wedding-. C. L. Front. No. 58,956; Sept. 6; v. 290; p. 159.
- Ring, Wedding-. M. H. Lebolt. No. 57,681; Apr. 26; v. 285; p. 737.
- Ring, Wedding-. J. C. O'Brien. No. 59,768; Nov. 22.
- Ring, Wedding-. C. B. Namiot. No. 58,815; Aug. 30; v. 289; p. 976.
- Rivet-punch. L. L. and C. C. Caillet. No. 59,410; Oct. 18.
- Road-gravelers, Body for. F. A. Leicher. No. 58,777; Aug. 30; v. 289; p. 968.
- Road-guide. T. C. Angerstein. No. 57,569; Apr. 26; v. 285; p. 717.
- Road-marker. T. C. Angerstein. No. 57,568; Apr. 26; v. 285; p. 717.
- Roaster, Aluminum. H. A. Church. No. 59,953; Dec. 13.
- Robe. G. A. Bell. No. 57,198; Mar. 8; v. 284; p. 324.
- Rocker. J. H. Dodson. No. 58,555; Aug. 2; v. 289; p. 129.
- Rocking-horse. J. H. Webb. Nos. 57,558-9; Apr. 12; v. 285; p. 349.
- Romper. R. F. Hough. No. 59,844; Nov. 29.
- Romper, Child's. J. Miller and D. Macowsky. No. 57,367; Mar. 15; v. 284; p. 551.
- Rompers. R. Gilbert. No. 58,902; Sept. 6; v. 290; p. 148.
- Rosary. G. Thibault. No. 59,306; Oct. 4.
- Rubber ball or similar article. F. W. Dodge. No. 59,542; Nov. 1.
- Rubber heel. P. Altruda. No. 59,807; Nov. 29.
- Rubber heel. G. W. Bulley. No. 57,032; Feb. 1; v. 283; p. 129.
- Rubber heel. W. H. Clarke. No. 59,714; Nov. 22.
- Rubber heel. G. W. Grubb. No. 57,225; Mar. 8; v. 284; p. 329.
- Rubber heel. E. J. Hooper. No. 57,339; Mar. 15; v. 284; p. 546.
- Rubber heel. S. Massina. No. 60,048; Dec. 20.
- Rubber heel. L. E. Meyer. No. 56,933; Jan. 18; v. 282; p. 534.
- Rubber heel. T. Trimboli. No. 57,874; May 10; v. 286; p. 380.
- Rubber, Laundry-. F. W. Stein. No. 59,939; Dec. 6.
- Rubber mat. T. G. Richards. No. 58,941; Sept. 6; v. 290; p. 156.
- Rubber mat and cover. H. Joseph. No. 59,966; Dec. 13.
- Rubber matting. T. G. Richards. No. 58,942; Sept. 6; v. 290; p. 156.
- Rubber-tire casing. C. R. Baker. Nos. 59,321-2; Oct. 11.
- Rug. A. H. Waldo. No. 57,406; Mar. 15; v. 284; p. 558.
- Rug. A. H. Waldo. Nos. 57,550-57; Apr. 12; v. 285; pp. 347-9.
- Rug and carpet holder. J. W. Mumford. No. 57,370; Mar. 15; v. 284; p. 551.
- Rug, Grass. A. F. Clements. Nos. 58,713-14; Aug. 30; v. 289; p. 955.
- Rug, Grass. G. M. Fauser. No. 58,731; Aug. 30; v. 289; p. 958.
- Rug, Grass. S. Sokolsky. No. 58,836; Aug. 30; v. 289; p. 980.
- Rug, Grass. C. van de Wall. No. 58,842; Aug. 30; v. 289; p. 981.
- Rug, Grass. B. L. Wight. Nos. 58,849-55; Aug. 30; v. 289; pp. 982-3.
- Rule, Circular slide-. J. F. Keller and F. J. Badge. No. 59,360; Oct. 11.
- Rule-holder. T. D. Frederick. No. 57,831; May 10; v. 286; p. 372.
- Ruler. A. P. Draper. No. 59,462; Oct. 25.
- Salt brick. G. L. Edgerton. No. 56,913; Jan. 18; v. 282; p. 530.
- Sandal. J. P. Burns. No. 58,994; Sept. 13; v. 290; p. 379.
- Sash-fastener. F. Klicpera. No. 57,135; Feb. 22; v. 283; p. 715.
- Sash-weight, Sectional. W. A. Bartley. Nos. 57,810-11; May 10; v. 286; p. 368.
- Saw-set. C. Bodmer. No. 57,578; Apr. 26; v. 285; p. 285; p. 718.
- Scale, Computing. B. W. King. No. 57,840; May 10; v. 286; p. 374.
- Scale, Elevation-. A. T. Richardson. No. 59,926; Dec. 6.
- Scales, Casting for. E. G. Allen and A. A. Hagar. No. 57,960; May 24; v. 286; p. 797.
- Scales, Signboard for weighing-. K. G. Fisher. No. 59,001; Sept. 13; v. 290; p. 381.
- Scarf. A. Lazar. No. 57,532; Apr. 12; v. 285; p. 344.
- Scarf. F. Simon. No. 58,406; July 12; v. 288; p. 382.
- Scarf. N. Wisnefsky. No. 58,857; Aug. 30; v. 289; p. 984.
- Scarfpin, breastpin, &c. J. D. Rippin. No. 56,890; Jan. 4; v. 282; p. 166.
- Scarfpin or similar article. R. J. Green. No. 57,638; Apr. 26; v. 285; p. 729.
- Scissors and shears, Tension-spring for. J. J. Conway. No. 58,460; July 26; v. 288; p. 768.
- Scraper and parer, Vegetable. J. McNaughton. No. 59,248; Oct. 4.
- Screw or similar article. J. P. Eustis. No. 58,666; Aug. 9; v. 289; p. 368.
- Screwdriver. G. L. Hall. No. 59,742; Nov. 22.
- Seat. H. Mestre. No. 57,142; Feb. 22; v. 283; p. 716.
- Seat. S. P. Nissley. No. 59,907; Dec. 6.
- Seesaw. J. P. Bodenmiller. No. 58,130; June 14; v. 287; p. 353.
- Seesaw. G. Schaller. No. 58,506; July 26; v. 288; p. 778.
- Sewage apparatus. L. P. Berry, Jr. No. 57,575; Apr. 26; v. 285; p. 718.
- Sewing-machine arm. B. Ambrosiewicz. No. 58,420; July 19; v. 288; p. 565.
- Sewing-machine-cover case. G. G. Hasbrouck. No. 59,841; Nov. 29.
- Sewing-machine head. A. D. Smith. No. 59,524; Oct. 25.
- Sewing-machine looper. C. A. Dearborn. No. 59,460; Oct. 25.
- Sewing-machine presser-foot. C. A. Dearborn. No. 59,461; Oct. 25.
- Shade and curtain-pole bracket, Combined. F. L. Hawkins. No. 58,481; July 26; v. 288; p. 772.
- Shade, globe, or illuminating-bowl, Surface ornamentation of a. R. S. Glese. Nos. 56,863-8; Jan. 4; v. 282; pp. 160-1.
- Shade, Lighting-fixture. W. F. Handel. No. 56,922; Jan. 18; v. 282; p. 532.
- Shade, reflector, or similar article for a lighting-fixture. J. Doyle. No. 59,201; Oct. 4.
- Shade, Window-. A. U. Luca. No. 57,846; May 10; v. 286; p. 375.
- Shaping and ironing tool. F. E. Kern. No. 58,007; May 24; v. 286; p. 805.
- Sharpener, Knife-. S. Brook. No. 59,951; Dec. 13.
- Shears, Tailor's. E. A. Wack. No. 57,749; Apr. 26; v. 285; p. 749.
- Shelf. J. Cordes. No. 57,587; Apr. 26; v. 285; p. 720.
- Shell, Deep-body. H. T. Howell. No. 60,029; Dec. 20.
- Shingle, Roofing-. C. Russell. No. 59,981; Dec. 13.
- Shingle, Roofing-. J. A. Scharwath. Nos. 57,865-6; May 10; v. 286; p. 378.
- Shingle-simulating strip. O. A. Heppes. No. 57,126; Feb. 22; v. 283; p. 713.
- Shirt. B. L. Homel. No. 59,959; Dec. 13.
- Shirt-front. J. G. Leibold. No. 56,982; Jan. 25; v. 282; p. 688.
- Shirt, Night-. I. N. Kelley. No. 59,012; Sept. 13; v. 290; p. 383.
- Shirt, Outer. W. Benson. Nos. 56,851-2; Jan. 4; v. 282; p. 158.
- Shock-absorber. O. E. Leighton. No. 57,682; Apr. 26; v. 285; p. 737.
- Shoe. V. Benedetti. No. 60,008; Dec. 20.
- Shoe. J. A. Brent. No. 57,108; Feb. 22; v. 283; p. 710.
- Shoe. C. H. Brown. No. 57,110; Feb. 22; v. 283; p. 711.
- Shoe. F. Phillips. No. 59,031; Sept. 13; v. 290; p. 386.
- Shoe, Bathing-. E. A. Wagner. No. 57,289; Mar. 8; v. 284; p. 340.
- Shoe-horn. J. N. Mayhew. No. 58,797; Aug. 30; p. 289; p. 972.
- Shoe ornament. G. H. Pulsifer. No. 57,929; May 17; v. 286; p. 587.
- Shoe-plate. M. M. West. No. 59,394; Oct. 11.
- Shoe-sole. D. T. Lebo. No. 59,971; Dec. 13.
- Shoe, Vamp of a. I. J. Kauder. No. 59,658; Nov. 15.
- Shoes, Heel-brace for. L. Paternostro. Nos. 59,866-7; Nov. 29.
- Shovel. F. A. Vedutis. No. 60,115; Dec. 27.
- Shower-plate, Two-light. L. R. Wellman. No. 57,802; May 3; v. 286; p. 158.



*Alphabetical list of designs—Continued.*

- Shrine. F. Bissonette. No. 59,575; Nov. 8.  
Sifter-top. H. W. Jones. Nos. 57,132-4; Feb. 22; v. 283; p. 714.  
Sifter-top can or similar receptacle. M. H. Connor. No. 57,034; Feb. 1; v. 283; p. 129.  
Sifter-top can or similar receptacle. M. H. Connor. No. 58,020; May 31; v. 286; p. 1012.  
Sifter-top can or similar receptacle. M. H. Connor. No. 59,819; Nov. 29.  
Sifter-top can or similar receptacle. O. M. Svendsen. No. 58,048; May 31; v. 286; p. 1017.  
Sifter-top receptacle. M. Wolf. No. 58,858; Aug. 30; v. 289; p. 984.  
Sign. R. D. Bruegger. No. 57,424; Mar. 29; v. 284; p. 911.  
Sign. O. F. Funk. No. 58,561; Aug. 2; v. 289; p. 130.  
Sign. W. C. Haag. No. 57,076; Feb. 8; v. 283; p. 323.  
Sign. W. M. Harnstein. No. 59,654; Nov. 15.  
Sign. B. Meek and F. W. Miller. No. 58,155; June 14; v. 287; p. 357.  
Sign. F. W. Wilson. No. 57,756; Apr. 26; v. 285; p. 750.  
Sign, Advertising-. R. R. Johnstone. No. 57,348; Mar. 15; v. 284; p. 548.  
Sign, Advertising-. C. G. King. No. 59,423; Oct. 18.  
Sign, Electric. M. Norden. No. 57,852; May 10; v. 286; p. 376.  
Sign, Electric. M. Norden. No. 59,029; Sept. 13; v. 290; p. 386.  
Sign, Highway-. C. R. Wilson. No. 59,698; Nov. 15.  
Sign, Highway advertising and directing. R. Tenny. No. 59,693; Nov. 15.  
Sign or similar article, Advertising-. L. Glclas. No. 58,435; July 19; v. 288; p. 569.  
Signal. I. V. Edgerton. No. 57,965; May 24; v. 286; p. 798.  
Signal. R. R. Thompson. No. 58,841; Aug. 30; v. 289; p. 981.  
Signal-exhibitor casing. J. E. Journeaux and W. E. Hebestreit. Nos. 58,238-40; June 28; v. 287; p. 732.  
Signal, Traffic-. J. P. Hotz. No. 58,673; Aug. 9; v. 289; p. 370.  
Signet, Eastern-Star. C. A. Homan. No. 56,875; Jan. 4; v. 282; p. 162.  
Sink-scraper. W. J. Hines. No. 57,649; Apr. 26; v. 285; p. 731.  
Siphon-tube holder. F. G. Meyer. No. 59,974; Dec. 13.  
Sled. V. T. Broberg. No. 58,015; May 31; v. 286; p. 1011.  
Sled. L. Tkachuk. No. 59,388; Oct. 11.  
Sled. G. Wakeham. No. 59,797; Nov. 22.  
Sled, Bob-. E. S. Ensign. No. 59,000; Sept. 13; v. 290; p. 380.  
Slipper. V. Gardner. No. 57,121; Feb. 22; v. 283; p. 712.  
Slipper. E. A. Wagner. No. 57,456; Mar. 29; v. 284; p. 916.  
Smoking set. S. Semieski. No. 58,193; June 21; v. 287; p. 549.  
Snap-switch and plug-connector, Combined. F. C. DeReamer. No. 58,076; June 7; v. 287; p. 153.  
Soap, Cake of. S. Cummins. No. 59,823; Nov. 29.  
Soap, Cake of. M. Finger. No. 59,416; Oct. 18.  
Soap, Cake of. A. C. Lang. No. 58,032; May 31; v. 286; p. 1014.  
Soap, Cake of. S. Resor. No. 60,060; Dec. 20.  
Soap-holder. C. E. Erickson. No. 59,727; Nov. 22.  
Soap-muff. J. L. Wentz. No. 56,904; Jan. 4; v. 282; p. 168.  
Sock-retainer for boots and shoes. J. T. Cooper. No. 60,012; Dec. 20.  
Socket-cover. W. R. Kahns. Nos. 60,033-4; Dec. 20.  
Socket-cover. W. R. Kahns. No. 60,038; Dec. 20.  
Socket-interrupter. M. H. Shoenberg. No. 57,159; Feb. 22; v. 283; p. 719.  
Socket, Inverted angle. R. B. Benjamin. No. 57,102; Feb. 22; v. 283; p. 709.  
Socket-plug. R. B. Benjamin. No. 57,103; Feb. 22; v. 283; p. 709.  
Socket, Plural. W. M. Parker. No. 59,769; Nov. 22.  
Soda-fountain and ice-cream-dispensing apparatus. W. F. Beatty. No. 58,011; May 31; v. 286; p. 1010.  
Soda-fountain and ice-cream-dispensing apparatus. W. F. Beatty. No. 58,657; Aug. 9; v. 289; p. 367.  
Sole-trimming machine. P. Levasseur and A. P. Dumas. No. 58,194; June 21; v. 287; p. 549.  
Sound-amplifier. C. J. Dodge. No. 59,625; Nov. 15.  
Sound-box casing. W. G. Morse. No. 58,615; Aug. 2; v. 289; p. 140.  
Sound-reproducing machines, Light attachment for. G. E. Bernecker. No. 57,574; Apr. 26; v. 285; p. 718.  
Spark-gap, Casing for a rotary. W. E. Woods and L. A. Benson. No. 58,859; Aug. 30; v. 289; p. 984.  
Spark-gap rotor. R. H. G. Mathews. No. 58,095; June 7; v. 287; p. 156.  
Spark-intensifier. G. L. Hall. No. 59,743; Nov. 22.  
Spark-plug. H. H. Chinsky and E. Honstetter. No. 58,215; June 28; v. 287; p. 728.  
Spark-plug. P. J. Griffin. No. 58,438; July 12; v. 288; p. 569.  
Spark-plug. H. B. Light. No. 57,191; Mar. 1; v. 284; p. 145.  
Spark-plug. H. J. McNabb and R. T. Parrish. No. 57,080; Feb. 8; v. 283; p. 324.  
Spark-plug extension. E. H. Schweering. No. 59,686; Nov. 15.  
Spark-plug insulator, Glass. H. Z. White. No. 57,028; Jan. 25; v. 282; p. 695.  
Spark-plugs, Intensifier for. F. H. Eliason and W. F. Schwahl. No. 57,074; Feb. 8; v. 283; p. 322.  
Spark-plug electrode. F. W. Hill. No. 57,127; Feb. 22; v. 283; p. 713.  
Spatula. J. H. Lickert. No. 57,780; May 3; v. 286; p. 155.  
Spectacle-frame, Shell. T. Leytham. No. 58,920; Sept. 6; v. 290; p. 152.  
Spectacles. S. J. Clulee. No. 59,716; Nov. 22.  
Spectacles. S. J. Clulee. Nos. 59,817-18; Nov. 29.  
Spectacles, Frame for. O. U. Desha. No. 59,339; Oct. 11.  
Speedometer face-plate. J. Berge. No. 59,328; Oct. 11.  
Spike. F. C. Bauer, Sr. No. 58,456; July 26; v. 288; p. 768.  
Spike. F. C. Bauer, Sr. No. 59,324; Oct. 11.  
Spike. A. Duda. No. 58,728; Aug. 30; v. 289; p. 958.  
Spinner. E. E. Tatler. No. 56,949; Jan. 18; v. 282; p. 537.  
Sponge doll. C. F. Flemming. Nos. 59,547-51; Nov. 1.  
Spoon and fork, Combined. J. Domingo y Cañellas. No. 58,881; Sept. 6; v. 290; p. 144.  
Spoon, fork, or similar article. T. B. Lashar. No. 58,493; July 26; v. 288; p. 775.  
Spoon, fork, or similar article, Handle for. P. J. Gordon. No. 59,347; Oct. 11.  
Spoon, fork, or similar article, Handle for. F. W. Koonz. No. 60,100; Dec. 27.  
Spoon, fork, and similar article, Handle for. I. V. Smith. No. 59,385; Oct. 11.  
Spoon, fork, or similar article, Handle for. G. Strohaker. No. 59,387; Oct. 11.  
Spoon, fork, or similar article, Handle for a. A. L. Barney. No. 59,452; Oct. 25.  
Spoon, fork, or similar article, Handle for a. F. W. Koonz. No. 58,492; July 26; v. 288; p. 775.  
Spoon, fork, or similar article, Handle for a. F. E. Prétat. No. 59,376; Oct. 11.  
Spoon, fork, or similar article, Handle for a. F. R. Woodward. No. 57,197; Mar. 1; v. 284; p. 146.  
Spoon-handle. T. A. Williams. No. 58,520; July 26; v. 288; p. 781.  
Spoon-holder. J. E. Felertag. No. 59,632; Nov. 15.  
Spoon, Ice-cream. J. A. Rayder. No. 58,685; Aug. 9; v. 289; p. 372.  
Spoon, knife, fork or analogous utensil, Handle for. G. N. Allen. No. 59,401; Oct. 18.  
Spoon, knife, or fork, Handle of a. S. James. Nos. 59,353-4; Oct. 11.  
Spoons, forks, &c., Handle for. L. Moses. No. 58,099; June 7; v. 287; p. 157.  
Spoons, forks, or similar articles, Handle for. M. Bernstein. No. 59,405; Oct. 18.  
Spoons, forks, or similar articles, Handle for. A. G. Kintz. No. 58,767; Aug. 30; v. 289; p. 966.  
Spot-light. H. G. Fitz Gerald. No. 56,964; Jan. 25; v. 282; p. 685.  
Spot-light handle-stem. C. F. L. and W. L. Kaufmann. No. 57,056; Feb. 1; v. 283; p. 134.  
Spring-hanger bracket. R. S. Taylor. No. 59,792; Nov. 22.  
Springs, Securing-clip for. H. C. Naumann. No. 57,851; May 10; v. 286; p. 376.  
Sprinkler-body. A. K. Brauer. No. 57,582; Apr. 26; v. 285; p. 719.  
Staff-head. H. J. Gallagher. No. 59,074; Sept. 20; v. 290; p. 582.  
Stand. J. D. Holmes. No. 59,007; Sept. 13; v. 290; p. 382.  
Stand. M. A. Peck. No. 57,061; Feb. 1; v. 283; p. 134.  
Stand, Display-. C. J. Pult. (Reissue). No. 15,021; Jan. 4; v. 282; p. 157.  
Standard. A. Liskowacki. No. 59,664; Nov. 15.  
Staple. N. P. Plougmann. No. 58,043; May 31; v. 286; p. 1016.  
Staple-puller. O. Hermanson. No. 58,569; Aug. 2; v. 289; p. 132.  
Stapling-machine frame. F. Polzer. No. 60,105; Dec. 27.  
Statue. E. J. Jewell. No. 58,911; Sept. 6; v. 290; p. 150.  
Statuette. L. Davidovits. No. 59,459; Oct. 25.  
Statuette. M. P. D. Fortune. No. 59,207; Oct. 4.  
Statuette. F. J. Geissler. No. 58,901; Sept. 6; v. 290; p. 148.  
Statuette. B. Halsey. No. 59,891; Dec. 6.  
Statuette. J. MacQuarrie. No. 59,559; Nov. 1.  
Statuette. H. J. Masinter. No. 56,885; Jan. 4; v. 282; p. 164.  
Statuette. J. Ologubel. No. 58,396; July 12; v. 288; p. 380.  
Statuette. S. H. Peat and J. B. Johnston. No. 58,397; July 12; v. 288; p. 380.  
Statuette. B. E. Rieg and E. B. Williams. No. 57,270; Mar. 8; v. 284; p. 336.  
Statuette. A. Rigotty. No. 58,943; Sept. 6; v. 290; p. 156.  
Statuette. H. Tyler and A. S. Pascal. No. 59,978; Dec. 13.  
Statuette, doll, or similar article. K. M. Burke. No. 57,309; Mar. 15; v. 284; p. 541.



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- Statuette, sculpture, or similar article. E. Hoenig. No. 57,651; Apr. 26; v. 285; p. 731.
- Statuette, watch-fob, emblem, badge, radiator-cap. M. Marston. No. 58,608; Aug. 2; v. 289; p. 138.
- Steamer. H. Dalitz. No. 59,198; Oct. 4.
- Steering-post lock. J. A. Olbon. No. 59,564; Nov. 1.
- Sterilizer. M. Blickman. No. 58,540; Aug. 2; v. 289; p. 126.
- Stirring and turning tool. J. H. Lickert. No. 57,845; May 10; v. 286; p. 375.
- Stocking. M. Parkas. No. 59,546; Nov. 1.
- Stocking. S. Swanson. No. 59,988; Dec. 13.
- Stone or an imitation thereof, or article of similar nature, Precious, semiprecious, or synthetic. S. Heller. Nos. 58,317-21; July 12; v. 288; pp. 361-3.
- Stone, Precious, semi precious, or synthetic. E. L. Weed. No. 59,997; Dec. 13.
- Stone-setting. A. Frank. No. 59,552; Nov. 1.
- Stones, Setting for precious. H. Breslavsky. No. 58,305; July 12; v. 288; p. 359.
- Storage battery, Electric. R. B. Owen. No. 58,938; Sept. 6; v. 290; p. 155.
- Store-front. S. A. Lerner. No. 56,930; Jan. 18; v. 282; p. 533.
- Store-front. C. H. Seymour. No. 58,690; Aug. 9; v. 289; p. 373.
- Stove. C. R. Graham. No. 57,330; Mar. 15; v. 284; p. 545.
- Stove. B. B. Kahn. No. 59,895; Dec. 6.
- Stove front, Heating-. G. F. Reznor. No. 57,445; Mar. 29; v. 284; p. 914.
- Stove, Gas-. A. H. Humphrey. Nos. 57,341-2; Mar. 15; v. 284; p. 547.
- Stove, Gas-. A. H. Humphrey. No. 57,656; Apr. 26; v. 285; p. 732.
- Stove, Gas-. A. H. Humphrey. Nos. 59,962-3; Dec. 13.
- Stove, Gas-. J. M. Tobias. No. 57,174; Feb. 22; v. 283; p. 721.
- Stove, Oil-. E. E. Hilliker. Nos. 58,439-40; July 19; v. 288; pp. 569-70.
- Stove, Portable cook-. F. Kuhn and J. A. Hand. No. 57,478; Apr. 5; v. 285; p. 157.
- Stove-reservoir holder, Oil-. A. J. Kieckhefer. No. 56,928; Jan. 18; v. 282; p. 533.
- Stoves, Fireback for gas-. A. H. Humphrey. No. 57,129; Feb. 22; v. 283; p. 714.
- Stoves, Radiant for gas-. A. H. Humphrey. No. 59,964; Dec. 13.
- Strainer. L. Daniels. No. 57,589; Apr. 26; v. 285; p. 720.
- Strainer-holder. C. Schaumburg. No. 58,112; June 7; v. 287; p. 159.
- Strainer, Milk-. F. D. Kincaid. No. 59,232; Oct. 4.
- Straw-weave as applied to a straw hat. J. Stebe. No. 58,950; Sept. 6; v. 290; p. 158.
- Suction-cleaner case. I. L. Sheffer. No. 56,947; Jan. 18; v. 282; p. 536.
- Suit, Bathing-. W. B. Tyrrell. No. 58,411; July 12; v. 288; p. 383.
- Suit, Child's. C. Pfeffer. No. 56,988; Jan. 25; v. 282; p. 689.
- Suitcase-handle. S. Modern and M. Moskowitz. No. 57,143; Feb. 22; v. 283; p. 716.
- Sun and rain shield. E. C. Hillman. No. 59,350; Oct. 11.
- Sunbonnet. K. M. Polhamus. No. 59,033; Sept. 13; v. 290; p. 387.
- Sundae-cup holder. H. Pick. No. 57,720; Apr. 26; v. 285; p. 743.
- Sundae-dish. A. E. Sehlbach. No. 59,687; Nov. 15.
- Surface ornamentation applied to an article of manufacture. J. O. Balda. No. 57,806; May 10; v. 286; p. 368.
- Surgical mirror. A. A. Anzell. No. 58,533; Aug. 2; v. 289; p. 124.
- Switch casing, Safety-. R. K. Mason. No. 57,244; Mar. 8; v. 284; p. 331.
- Switches, Handle for electric. C. E. Anderson. No. 57,098; Feb. 22; v. 283; p. 709.
- Syringes, Nozzle for. H. L. Bruen. No. 59,952; Dec. 13.
- Table. J. A. Swanson. No. 58,953; Sept. 6; v. 290; p. 158.
- Table. U. Wilcox. No. 58,961; Sept. 6; v. 290; p. 159.
- Table and photograph-case, Combination library-. E. J. Seaburg. No. 57,158; Feb. 22; v. 283; p. 718.
- Table cover, Oil-cloth. C. Bastow. No. 60,082; Dec. 27.
- Tablet, Candy. T. D. Richardson. No. 59,285; Oct. 4.
- Tablet, Medicinal. A. Blackstone. No. 59,950; Dec. 13.
- Tackle-box. W. Roehl. No. 59,775; Nov. 22.
- Tag. J. J. Collins. No. 59,194; Oct. 4.
- Talcum-powder box. H. R. Corey. No. 58,072; June 7; v. 287; p. 152.
- Talcum-powder box. F. E. Eberhart. Nos. 57,621-5; Apr. 26; v. 285; pp. 726-7.
- Talcum-powder box. J. M. Hothersall. Nos. 58,329-83; July 12; v. 288; pp. 364-77.
- Talcum-powder box. J. M. Hothersall. Nos. 59,088-118; Sept. 20; v. 290; pp. 584-91.
- Talcum-powder can. H. R. Corey. No. 57,033; Feb. 1; v. 283; p. 129.
- Talcum-powder can. H. Goldberg. No. 58,563; Aug. 2; v. 289; p. 130.
- Talcum-powder can. C. H. Nowack. Nos. 57,853-5; May 10; v. 286; p. 376.
- Talking-machine. J. A. Davis. No. 58,552; Aug. 2; v. 289; p. 128.
- Talking-machine box. C. J. Willenborg, Jr. No. 58,004; May 24; v. 286; p. 805.
- Talking-machine cabinet. J. F. Biggs. No. 57,306; Mar. 15; v. 284; p. 541.
- Talking-machine cabinet. S. K. Ouzoun-Boghossian. No. 57,990; May 24; v. 286; p. 802.
- Talking-machine cabinet or casing. A. Morelle. No. 59,669; Nov. 15.
- Talking-machine case. F. W. Steck. Nos. 58,512-13; July 26; v. 288; p. 779.
- Talking-machine casing. A. J. Swing. No. 57,024; Jan. 25; v. 282; p. 694.
- Talking-machine grille. S. K. Ouzoun-Boghossian. No. 57,372; Mar. 15; v. 284; p. 552.
- Talking-machine grille. S. K. Ouzoun-Boghossian. Nos. 57,374-5; Mar. 15; v. 284; p. 552.
- Talking-machine grille. S. K. Ouzoun-Boghossian. Nos. 57,714-7; Apr. 26; v. 285; p. 743.
- Talking-machine grille. S. K. Ouzoun-Boghossian. No. 57,783; May 3; v. 286; p. 155.
- Talking-machines, Grille for. S. K. Ouzoun-Boghossian. Nos. 57,481-2; Apr. 5; v. 285; pp. 157-8.
- Talking-machines, Turntable for. J. A. Davis. No. 58,553; Aug. 2; v. 289; p. 128.
- Tape-transmitter casing. W. G. Fluharty. No. 59,956; Dec. 13.
- Tassel. W. J. Gagnon. No. 59,469; Oct. 25.
- Tea or coffee pot. W. J. Baring. No. 58,697; Aug. 30; v. 289; p. 952.
- Teakettle, Aluminum. H. A. Church. Nos. 59,190-1; Oct. 4.
- Telephone-cover and lamp-stand, Combined. H. C. and J. E. Atherley. No. 59,882; Dec. 6.
- Telephones, Desk-stand for hand-. E. S. McLarn. Nos. 57,700-1; Apr. 26; v. 285; p. 740.
- Telephone-dial support. A. J. Curren. No. 57,213; Mar. 8; v. 284; p. 326.
- Telephone-earpiece. R. W. Post. No. 58,682; Aug. 9; v. 289; p. 372.
- Telephone-receiver attachment. B. Wise. No. 60,080; Dec. 20.
- Telephone-receiver holder. B. Wise. No. 59,801; Nov. 22.
- Telephone-support. L. Maisel. No. 58,794; Aug. 30; v. 289; p. 971.
- Temple-gage. W. A. Jackson. No. 58,910; Sept. 6; v. 290; p. 150.
- Textile fabric. J. H. Bunting. No. 57,494; Apr. 12; v. 285; p. 337.
- Textile fabric. A. Eisele. Nos. 58,468-70; July 26; v. 288; p. 770.
- Textile fabric. E. Krupicka. No. 57,530; Apr. 12; v. 285; p. 344.
- Textile fabric. R. L. Reinhart. No. 57,543; Apr. 12; v. 285; p. 346.
- Textile fabric. W. G. Reith. No. 58,505; July 26; v. 288; p. 778.
- Textile fabric. W. G. Reith. No. 57,544; Apr. 12; v. 285; p. 346.
- Thermometer. G. S. Clark and P. B. Snyder. No. 59,333; Oct. 11.
- Thermometer, Desk-. S. C. Lord. No. 57,686; Apr. 26; v. 285; p. 737.
- Ticking, Mattress-. E. Sonntag, Jr. Nos. 59,292-6; Oct. 4.
- Tie-clip. F. S. and R. K. Maker. No. 58,153; June 14; v. 287; p. 357.
- Tie-fastener and soft-collar retainer, Combined. H. I. Felix. No. 58,667; Aug. 9; v. 289; p. 368.
- Tie-holder or similar article. A. Cole. No. 59,456; Oct. 25.
- Ties, Form for bow-. S. R. Waddell. No. 58,958; Sept. 6; v. 290; p. 159.
- Tile. E. Taylor. No. 56,950; Jan. 18; v. 282; p. 537.
- Tile, Building-. G. H. Bruce. No. 57,111; Feb. 22; v. 283; p. 711.
- Tire. J. M. Alderfer. No. 58,419; July 19; v. 288; p. 565.
- Tire. A. K. and C. A. Allen. No. 59,806; Nov. 29.
- Tire. E. P. Altenburg. No. 57,070; Feb. 8; v. 283; p. 322.
- Tire. A. A. Arter. No. 57,295; Mar. 15; v. 284; p. 539.
- Tire. A. Balthazar and M. R. Shaw. No. 57,571; Apr. 26; v. 285; p. 717.
- Tire. O. Basten. No. 57,881; May 17; v. 286; p. 579.
- Tire. J. I. Black. No. 57,307; Mar. 15; v. 284; p. 541.
- Tire. A. K. Brill. No. 58,067; June 7; v. 287; p. 152.
- Tire. W. D. Carnal. No. 57,184; Mar. 1; v. 284; p. 143.
- Tire. W. D. Carnal. Nos. 57,210-11; Mar. 8; v. 284; p. 325.
- Tire. J. Christy. No. 57,185; Mar. 1; v. 284; p. 143.
- Tire. J. Christy. No. 59,815; Nov. 29.
- Tire. C. H. Desautels. No. 57,116; Feb. 22; v. 283; p. 712.
- Tire. H. A. Githens. Nos. 57,233-5; Feb. 22; v. 283; p. 713.
- Tire. R. P. Gourley and H. P. Partenheimer. No. 57,637; Apr. 26; v. 285; p. 729.
- Tire. W. E. Greer. No. 56,921; Jan. 18; v. 282; p. 531.
- Tire. C. G. Hoover. No. 59,653; Nov. 15.
- Tire. I. V. Humphrey. No. 58,187; June 21; v. 287; p. 548.



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- Tire. J. T. Johnson. No. 57,131; Feb. 22; v. 283; p. 714.
- Tire. W. P. Keith. No. 58,764; Aug. 30; v. 289; p. 965.
- Tire. K. B. Kilborn and W. S. Wolfe. No. 59,755; Nov. 22.
- Tire. J. P. Kirch. Nos. 57,663-71; Apr. 26; v. 285; pp. 733-5.
- Tire. E. J. Kraft. No. 59,494; Oct. 25.
- Tire. E. L. Lawlor. Nos. 56,980-1; Jan. 25; v. 282; p. 687.
- Tire. E. L. Lawlor. No. 57,138; Feb. 22; v. 283; p. 715.
- Tire. E. L. Lawlor. No. 58,494; July 26; v. 288; p. 775.
- Tire. R. W. Lyons. No. 58,789; Aug. 30; v. 289; p. 970.
- Tire. W. M. Mackintosh. No. 57,983; May 24; v. 286; p. 801.
- Tire. C. F. Ofensend. No. 57,480; Apr. 5; v. 285; p. 157.
- Tire. J. Olson. No. 57,856; May 10; v. 286; p. 376.
- Tire. E. Phillips. No. 59,511; Oct. 25.
- Tire. H. Radlovich. No. 58,198; June 21; v. 287; p. 550.
- Tire. L. B. F. Schoenfeldt. No. 59,982; Dec. 13.
- Tire. F. H. Smith. No. 57,790; May 3; v. 286; p. 156.
- Tire. R. J. Smith. No. 59,526; Oct. 25.
- Tire. J. Tenney, Jr. Nos. 59,304-5; Oct. 4.
- Tire. E. R. Throsby. No. 57,400; Mar. 15; v. 284; p. 556.
- Tire. R. S. Trogner. No. 57,953; May 17; v. 286; p. 590.
- Tire. R. S. Trogner. Nos. 59,139-67; Sept. 20; v. 290; pp. 595-602.
- Tire. R. S. Trogner. Nos. 59,441-3; Oct. 18.
- Tire. E. G. Weiler. No. 59,049; Sept. 13; v. 290; p. 390.
- Tire. W. S. Wolfe. No. 59,803; Nov. 22.
- Tire. E. Yockey. No. 57,731; Apr. 26; v. 285; p. 746.
- Tire. E. Yockey. No. 57,753; Apr. 26; v. 285; p. 750.
- Tire, Automobile. M. J. Atkinson. No. 57,071; Feb. 8; v. 283; p. 322.
- Tire, Automobile. W. P. Braender. No. 59,811; Nov. 29.
- Tire, Automobile. W. A. Brubaker. No. 58,017; May 31; v. 286; p. 1012.
- Tire, Automobile. W. Dunbar. No. 57,073; Feb. 8; v. 283; p. 322.
- Tire, Automobile. M. Greenspan. No. 57,431; Mar. 29; v. 284; p. 912.
- Tire, Automobile. J. Hotchkiss. No. 59,655; Nov. 15.
- Tire, Automobile. H. M. Lambert. No. 57,136; Feb. 22; v. 283; p. 715.
- Tire, Automobile. C. W. McKone. No. 57,849; May 10; v. 286; p. 375.
- Tire, Automobile. B. L. Mellinger. No. 58,612; Aug. 2; v. 289; p. 139.
- Tire, Automobile. O. H. Williams. No. 57,879; May 10; v. 286; p. 381.
- Tire, Automobile. J. G. Wolfe. No. 57,880; May 10; v. 286; p. 381.
- Tire-carrier. J. Galamb. No. 57,897; May 17; v. 286; p. 581.
- Tire-carrier. H. G. Voight. No. 57,801; May 3; v. 286; p. 158.
- Tire-casing. R. D. Belden. Nos. 57,490-1; Apr. 12; v. 285; pp. 336-7.
- Tire-casing. R. D. Belden. No. 59,174; Oct. 4.
- Tire-casing. F. H. Brewster. No. 57,461; Apr. 5; v. 285; p. 154.
- Tire-casing. F. S. Dickinson. Nos. 58,181-2; June 21; v. 287; p. 547.
- Tire-casing. T. G. Graham. No. 57,224; Mar. 8; v. 284 p. 325.
- Tire-casing. A. H. Harris. No. 57,336; Mar. 15; v. 284; p. 546.
- Tire-casing. P. C. Hudson. No. 57,340; Mar. 15; v. 284; p. 546.
- Tire-casing. G. W. Odell. No. 57,926; May 17; v. 286; p. 586.
- Tire-casing. G. W. Odell. No. 59,673; Nov. 15.
- Tire-casing. L. T. Petersen. Nos. 57,257-61; Mar. 8 v. 284; p. 334-5.
- Tire-casing. E. A. Reid. No. 59,128; Sept. 20; v. 290; p. 593.
- Tire-casing. O. L. Weaver. No. 57,408; Mar. 15; v. 284; p. 558.
- Tire-chain tool. W. J. Van Kuren. No. 57,549; Apr. 1; v. 285; p. 347.
- Tire-core. W. A. Black. No. 57,813; May 10; v. 286; p. 369.
- Tire-core. C. D. McCullough. No. 59,024; Sept. 13; v. 290; p. 385.
- Tire, Cushion. H. M. Lambert. No. 57,363; Mar. 15; v. 284; p. 550.
- Tire, Cushion. A. A. Robb. No. 59,684; Nov. 15.
- Tire, Elastic vehicle. J. M. Alderfer. No. 57,566; Apr. 26; v. 285; p. 716.
- Tire, Elastic vehicle. E. O. Blekre. Nos. 57,764-7; May 3; v. 286; p. 152.
- Tire, Elastic vehicle. A. L. Breitenstein. No. 57,072; Feb. 8; v. 283; p. 322.
- Tire, Elastic vehicle. D. A. Doyle, Jr. No. 58,022; May 31; v. 286; p. 1012.
- Tire, Elastic vehicle. F. E. Shannon. No. 57,732; Apr. 26; v. 285; p. 746.
- Tire for automobile-wheels. G. K. Culp. No. 58,218; June 28; v. 287; p. 729.
- Tire for motor-vehicles. G. Grow. No. 59,418; Oct. 18.
- Tire-gages, Casing for. A. B. Low. No. 59,364; Oct. 11.
- Tire lock for automobiles, Spare. E. E. Chapman. No. 59,062; Sept. 20; v. 290; p. 579.
- Tire, Non-skid. W. A. Brubaker. No. 59,619; Nov. 15.
- Tire, Non-skid. W. E. Duersten. No. 57,118; Feb. 22; v. 283; p. 712.
- Tire, Non-skid. H. McCreary. No. 58,610; Aug. 2; v. 289; p. 139.
- Tire, Non-skid. W. H. Ramsthaler. No. 57,265; Mar. 8 v. 284; p. 336.
- Tire or casing, Vehicle. E. L. Campbell. No. 58,018; May 31; v. 286; p. 1012.
- Tire or casing, Vehicle. E. L. Campbell. No. 58,178; June 21; v. 287; p. 547.
- Tire or similar article. F. H. Smith. No. 57,937; May 17; v. 286; p. 588.
- Tire-patch. E. M. Steell. No. 58,951; Sept. 6; v. 290; p. 158.
- Tire-placer. C. A. Hornburg. No. 57,654; Apr. 26; v. 285; p. 732.
- Tire, Pneumatic. F. A. Bollinger. No. 58,541; Aug. 2; v. 289; p. 126.
- Tire, Pneumatic. W. F. Collins. No. 58,180; June 21; v. 287; p. 547.
- Tire, Pneumatic. M. L. Wiener. No. 57,290; Mar. 8; v. 284; p. 340.
- Tire-rack. W. T. Rancel. No. 58,504; July 26; v. 288; p. 778.
- Tire, Rubber. W. E. Armacost. No. 57,759; May 3; v. 286; p. 151.
- Tire, Rubber. A. C. Fisher. No. 57,120; Feb. 22; v. 283; p. 712.
- Tire, Rubber. C. S. Park. No. 58,500; July 26; v. 288; p. 777.
- Tire, Rubber. D. W. Whipple. No. 58,847; Aug. 30; v. 289; p. 982.
- Tire shoe-horn. E. F. King. No. 59,848; Nov. 29.
- Tire shoe or tread, Pneumatic. J. Martin. Nos. 58,795-6; Aug. 30; v. 289; p. 972.
- Tire, Solid rubber. L. E. Clough. No. 58,547; Aug. 2; v. 289; p. 127.
- Tire-tool. A. J. English and C. J. Hart. No. 58,472; July 26; v. 288; p. 770.
- Tire-tread. A. L. Breitenstein. Nos. 57,886-7; May 17; v. 286; pp. 579-80.
- Tire-tread. A. L. Breitenstein. No. 59,180; Oct. 4.
- Tire-tread. R. E. Cartledge. Nos. 58,996-7; Sept. 13; v. 290; p. 380.
- Tire-tread. W. M. Doucette. Nos. 59,065-9; Sept. 20; v. 290; pp. 580-1.
- Tire-tread. S. T. Ehrlich. No. 59,073; Sept. 20; v. 290; p. 581.
- Tire-tread. C. T. Gardner. No. 59,075; Sept. 20; v. 290; p. 582.
- Tire-tread. W. S. Gauntt. No. 58,478; July 26; v. 288; p. 772.
- Tire-tread. R. B. Gillette and R. W. Hutchens. No. 59,918; Jan. 18; v. 282; p. 531.
- Tire-tread. A. A. Glidden, G. G. Buell, and E. O. Fritch. No. 58,081; June 7; v. 287; p. 154.
- Tire-tread. E. C. Gordon. No. 57,040; Feb. 1; v. 283; p. 130.
- Tire-tread. J. Graham. No. 57,899; May 17; v. 286; p. 582.
- Tire-tread. L. A. Gredys. No. 57,332; Mar. 15; v. 284; p. 545.
- Tire-tread. W. J. Greene. No. 57,835; May 10; v. 286; p. 373.
- Tire-tread. F. E. Holcomb. No. 57,077; Feb. 8; v. 283; p. 323.
- Tire-tread. J. F. Jamrowicz. No. 59,008; Sept. 13; v. 290; p. 382.
- Tire-tread. L. M. Kennedy. No. 57,350; Mar. 15; v. 284; p. 548.
- Tire-tread. H. L. Kenyon. Nos. 56,974-6; Jan. 25; v. 282; pp. 686-7.
- Tire-tread. C. A. Kline. No. 57,842; May 10; v. 286; p. 374.
- Tire-tread. E. F. Kling. No. 58,491; July 26; v. 288; p. 775.
- Tire-tread. H. W. Kugler. No. 58,602; Aug. 2; v. 289; p. 137.
- Tire-tread. K. Kurose. No. 59,120; Sept. 20; v. 290; p. 592.
- Tire-tread. G. Lambright. No. 58,243; June 28; v. 287; p. 733.
- Tire-tread. W. G. Lerch. No. 58,674; Aug. 9; v. 289; p. 370.
- Tire-tread. A. E. Lichtman. No. 58,778; Aug. 30; v. 289; p. 968.
- Tire-tread. N. H. Losey. No. 57,781; May 3; v. 286; p. 155.
- Tire-tread. E. F. Lumber. No. 58,788; Aug. 30; v. 289; p. 970.
- Tire-tread. W. E. McCormish. No. 57,079; Feb. 8; v. 283; p. 323.
- Tire-tread. W. W. McMahan. No. 59,973; Dec. 13.
- Tire-tread. L. E. Meyer. No. 58,801; Aug. 30; v. 289; p. 973.
- Tire-tread. H. D. Mitchell. No. 56,934; Jan. 18; v. 282; p. 534.
- Tire-tread. W. J. Murphy. Nos. 59,124-5; Sept. 20; v. 290; p. 593.



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- Tire-tread. G. W. Odell. No. 59,674; Nov. 15.  
 Tire-tread. W. H. Paull. No. 57,377; Mar. 15; v. 284; p. 552.  
 Tire-tread. W. H. Paull. No. 59,268; Oct. 4.  
 Tire-tread. J. W. Price. No. 58,683; Aug. 9; v. 289; p. 372.  
 Tire-tread. H. J. Richards. No. 58,826; Aug. 30; v. 289; p. 978.  
 Tire-tread. E. R. Simms. No. 59,689; Nov. 15.  
 Tire-tread. H. H. Swan. No. 59,042; Sept. 13; v. 290; p. 389.  
 Tire-tread. A. C. Terrell. No. 57,745; Apr. 26; v. 285; p. 748.  
 Tire-tread. F. Trautwein. No. 57,065; Feb. 1; v. 283; p. 135.  
 Tire-tread. W. F. Wiley and A. Reinsberg. No. 59,312; Oct. 4.  
 Tire-tread. H. S. Yost. No. 58,984; Sept. 6; v. 290; p. 164.  
 Tire tread, Automobile. G. E. Foresman. No. 57,830; May 10; v. 286; p. 372.  
 Tire tread, Automobile. J. R. Riley. No. 58,629; Aug. 2; v. 289; p. 142.  
 Tire tread, Cushion. C. Soderlund. No. 59,134; Sept. 20; v. 290; p. 594.  
 Tire tread, Elastic. E. O. Blekre. Nos. 56,908-10; Jan. 18; v. 282; p. 529.  
 Tire Tread for an automobile. G. Grow. No. 57,836; May 10; v. 286; p. 373.  
 Tire-tread, Non-skid. E. N. Downes. Nos. 58,463-5; July 12; v. 288; p. 769.  
 Tire-tread or similar article. R. W. Hutchens. No. 58,756; Aug. 30; v. 289; p. 964.  
 Tire tread, Pneumatic. R. M. Pierson. No. 59,273; Oct. 4.  
 Tire tread, Pneumatic. F. R. Talbott. No. 58,640; Aug. 2; v. 289; p. 144.  
 Tire tread, Pneumatic. J. D. Tew. No. 57,873; May 10; v. 286; p. 380.  
 Tire-tread, Rubber. J. E. Schneider. No. 58,113; June 7; v. 287; p. 159.  
 Tire tread, Vehicle. H. T. Auerbach. No. 57,297; Mar. 15; v. 284; p. 539.  
 Tire, Vehicle. D. L. Becker. No. 57,303; Mar. 15; v. 284; p. 540.  
 Tire, Vehicle. D. L. Becker. No. 59,699; Nov. 22.  
 Tire, Vehicle. E. O. Blekre. No. 58,058; June 7; v. 287; p. 150.  
 Tire, Vehicle. R. Butler. Nos. 57,888-9; May 17; v. 286; p. 580.  
 Tire, Vehicle. W. Carnal. Nos. 57,207-9; Mar. 8; v. 284; p. 325.  
 Tire, Vehicle. D. F. Crow. No. 56,911; Jan. 18; v. 282; p. 530.  
 Tire, Vehicle. P. J. McHugh. No. 58,791; Aug. 30; v. 289; p. 971.  
 Tire, Vehicle. E. H. Nahm. No. 57,709; Apr. 26; v. 285; p. 742.  
 Tire, Vehicle. J. H. Patten. No. 57,376; Mar. 15; v. 284; p. 552.  
 Tire, Vehicle. N. Serlin. No. 57,386; Mar. 15; v. 284; p. 554.  
 Tire, Vehicle. R. J. Stokes. No. 59,870; May 10; v. 286; p. 379.  
 Tire, Vehicle. M. Switzer. No. 57,872; May 10; v. 286; p. 379.  
 Tire, Vehicle. M. Switzer. No. 57,948; May 17; v. 286; p. 590.  
 Tire, Vehicle. W. F. Troast. No. 59,794; Nov. 22.  
 Tire, Vehicle. R. H. Waters. No. 57,878; May 10; v. 286; p. 380.  
 Tire, Vehicle. R. H. Waters. No. 59,310; Oct. 4.  
 Tires, Non-skid tread for. C. B. Klopfenstine. Nos. 58,191-2; June 21; v. 287; p. 549.  
 Tires, Non-skid tread for airless or pneumatic. J. A. MacMillan. No. 59,426; Oct. 18.  
 Tires, Non-skid tread for automobile. E. O. Fritch. No. 57,631; Apr. 26; v. 285; p. 728.  
 Tires, Non-skid tread for automobile. A. F. Glidden. No. 58,080; June 7; v. 287; p. 154.  
 Tires, Non-skid tread for automobile. R. Muir. No. 57,059; Feb. 1; v. 283; p. 134.  
 Tires, Tread-link for. R. McCormick. No. 59,904; Dec. 6.  
 Tobacco-pipe reamer. G. J. Meyers. No. 60,049; Dec. 20.  
 Toilet-article handle. H. D. Mosauer. No. 58,679; Aug. 9; v. 289; p. 371.  
 Toilet-box. J. Rosenfield. No. 57,152; Feb. 22; v. 283; p. 717.  
 Toilet-chair. A. L. Morton. No. 59,126; Sept. 20; v. 290; p. 593.  
 Toilet-receptacle, Top or bottom for. H. D. Mosauer. No. 59,022; Sept. 13; v. 290; p. 384.  
 Tong, Pair of. P. Kuzmjak. No. 57,239; Mar. 8; v. 284; p. 331.  
 Tool. W. S. Bellows. No. 59,325; Oct. 11.  
 Tool. J. G. Williams. No. 59,396; Oct. 11.  
 Tool-chest. G. A. Jones. No. 57,436; Mar. 29; v. 284; p. 913.  
 Tool, Cleaning. J. H. Hebert. No. 59,348; Oct. 11.  
 Tool, Combination. J. Bosco. No. 57,030; Feb. 1; v. 283; p. 129.  
 Tool, Combination. A. H. Crampton. No. 58,663; Aug. 9; v. 289; p. 368.  
 Tool, Combination. R. E. Kingston and F. W. Woodard. No. 57,662; Apr. 26; v. 285; p. 730.  
 Tool, Combination. N. Larson. No. 56,979; Jan. 25; v. 282; p. 687.  
 Tool, Combination. J. Schwendner. No. 57,157; Feb. 22; v. 283; p. 718.  
 Tool, Combination. C. E. Swihart. No. 57,394; Mar. 15; v. 284; p. 555.  
 Tool, Combination. P. R. Zylka. No. 57,097; Feb. 8; v. 283; p. 326.  
 Tooth cleaner and support, Combined. L. A. Gable. Nos. 58,668-9; Aug. 9; v. 289; p. 369.  
 Toothbrush. J. S. Cahill. No. 56,858; Jan. 4; v. 282; p. 160.  
 Toothbrush. A. A. Campbell. No. 57,584; Apr. 26; v. 285; p. 719.  
 Toothbrush. W. B. Gibson. No. 57,327; Mar. 15; v. 284; p. 544.  
 Toothbrush. P. S. Marcellus. No. 58,445; July 19; v. 288; p. 571.  
 Toothbrush. J. E. Perrault. No. 59,127; Sept. 20; v. 290; p. 593.  
 Toothbrush, paste, and glass holder, Combination. K. Frost and O. Jessl. No. 59,647; Nov. 15.  
 Toothpick-vender. M. Wilson. No. 58,653; Aug. 2; v. 289; p. 147.  
 Top. J. W. Glenn. No. 58,079; June 7; v. 287; p. 154.  
 Top, Spinning. S. Asaturian. No. 58,866; Sept. 6; v. 290; p. 141.  
 Tourist guide-board. E. M. Quint. No. 59,924; Dec. 6.  
 Towel hanger and marker. O. Fields. No. 56,963; Jan. 25; v. 282; p. 685.  
 Towel-holder. A. A. Lovejoy. No. 57,058; Feb. 1; v. 283; p. 134.  
 Towels and other articles, Holder for. C. A. Michaels. No. 59,765; Nov. 22.  
 Tower-bell engagement-ring. J. A. Goyette. No. 59,838; Nov. 29.  
 Toy. C. G. Adamec. No. 59,805; Nov. 29.  
 Toy. C. W. Beiser. No. 59,538; Nov. 1.  
 Toy. F. A. Billmeyer. No. 58,699; Aug. 30; v. 289; p. 952.  
 Toy. A. S. Bucher. Nos. 58,132-4; June 14; v. 287; p. 353.  
 Toy. J. W. Carlson. No. 59,329; Oct. 11.  
 Toy. J. Fritz. No. 57,038; Feb. 1; v. 283; p. 130.  
 Toy. P. Goehring. No. 58,142; June 14; v. 287; p. 355.  
 Toy. R. L. Herman. No. 58,483; July 26; v. 288; p. 773.  
 Toy. E. N. Hickey. No. 59,894; Dec. 6.  
 Toy. J. Maier and T. Rice. Nos. 58,792-3; Aug. 30; v. 289; p. 971.  
 Toy. R. Moody. Nos. 59,404-5; Oct. 25.  
 Toy. S. P. Nissley. No. 59,908; Dec. 6.  
 Toy. J. P. Orwit. No. 59,675; Nov. 15.  
 Toy. F. Strauss. No. 58,638; Aug. 2; v. 289; p. 144.  
 Toy. L. Townsend. No. 58,118; June 7; v. 287; p. 160.  
 Toy. L. L. Whitaker and J. Lochrie. No. 56,952; Jan. 18; v. 282; p. 937.  
 Toy. S. Wojcik. No. 58,054; May 31; v. 286; p. 1018.  
 Toy aeroplane. G. T. Fulton. No. 58,078; June 7; v. 287; p. 153.  
 Toy aeroplane. G. A. Purcell. No. 58,108; June 7; v. 287; p. 158.  
 Toy airplane. J. J. Keller. No. 57,437; Mar. 29; v. 284; p. 913.  
 Toy airscout. R. H. Howell. No. 57,128; Feb. 22; v. 283; p. 714.  
 Toy animal. H. M. Baker. No. 57,299; Mar. 15; v. 284; p. 539.  
 Toy animal. C. J. Clouser. No. 58,135; June 14; v. 287; p. 354.  
 Toy animal. J. B. Gruelle. No. 58,314; July 12; v. 288; p. 360.  
 Toy animal. J. B. Gruelle. No. 59,553; Nov. 1.  
 Toy animal. R. D. Highet. No. 56,872; Jan. 4; v. 282; p. 162.  
 Toy balloon. F. B. Pastir. Nos. 59,864-5; Nov. 29.  
 Toy balloon. E. T. Richert. No. 57,151; Feb. 22; v. 283; p. 717.  
 Toy balloon. E. T. Richert. No. 58,109; June 7; v. 287; p. 159.  
 Toy balloon-doll. W. M. Colvin. No. 59,718; Nev. 22.  
 Toy bank. J. H. Bigalow. No. 59,701; Nov. 22.  
 Toy bank. H. C. Gordon. No. 56,919; Jan. 18; v. 282; p. 531.  
 Toy bank. F. Yokel. No. 58,862; Aug. 30; v. 289; p. 984.  
 Toy block. H. C. Diefenbach. No. 58,462; July 12; v. 288; p. 769.  
 Toy bow. A. D. Adriance. No. 59,317; Oct. 11.  
 Toy bowling-alley. H. Reuhl. No. 58,686; Aug. 9; v. 289; p. 373.  
 Toy broom. R. Nakian. No. 59,855; Nov. 29.  
 Toy car. M. J. Breitenstein and M. G. Martin. No. 57,031; Feb. 1; v. 283; p. 129.  
 Toy car. D. V. Davis. No. 56,860; Jan. 4; v. 282; p. 160.  
 Toy cart. C. P. Wood. No. 57,057; Feb. 1; v. 283; p. 135.  
 Toy, Child's wheel. J. C. Juthe. No. 59,598; Nov. 8.  
 Toy coaster. C. Voorhees. No. 58,170; June 14; v. 287; p. 360.



- Toy, Dancing. T. Barnaby. No. 58,285; July 5; v. 288; p. 163.
- Toy dog. A. M. Burton. No. 59,578; Nov. 8.
- Toy doll. G. Goss. No. 59,738; Nov. 22.
- Toy, Figure. C. G. Ecket. No. 57,518; Apr. 12; v. 285; p. 341.
- Toy, Figure. P. S. H. Newell. Nos. 57,924-5; May 17; v. 286; p. 586.
- Toy, Flying. R. D. Haworth. No. 59,419; Oct. 18.
- Toy, Flying. W. H. V. Shrum. Nos. 57,448-9; Mar. 29; v. 284; p. 915.
- Toy, Flying. W. H. Van Shrum. No. 57,447; Mar. 29; v. 284; p. 915.
- Toy gas-stove. L. C. Jones. No. 60,032; Dec. 20.
- Toy glider. W. F. Lebzelter. No. 58,036; May 31; v. 286; p. 1015.
- Toy horse with jockey. R. Mulrone. No. 58,251; June 28; v. 287; p. 734.
- Toy monkey. W. F. Keller. No. 59,011; Sept. 13; v. 290; p. 382.
- Toy painting outfit. N. Ullman. No. 58,119; June 7; v. 287; p. 160.
- Toy paper aeroplane. B. H. Harris. No. 57,647; Apr. 26; v. 285; p. 731.
- Toy-pistol holster. A. Baron. No. 59,536; Nov. 1.
- Toy rabbit known as Peter Bunny. M. Waterman. No. 58,413; July 12; v. 288; p. 383.
- Toy, Revolving-disk display. H. C. Block. No. 59,060; Sept. 20; v. 290; p. 579.
- Toy rocker. C. J. Clouser. No. 59,334; Oct. 11.
- Toy, Rocking duck nursery. H. P. Sigwalt. No. 60,111; Dec. 27.
- Toy runabout. H. V. Keely. No. 59,898; Dec. 6.
- Toy savings-bank. O. C. Curtiss. No. 56,912; Jan. 18; v. 282; p. 530.
- Toy small-arm. C. W. Beiser. No. 58,057; June 7; v. 287; p. 150.
- Toy sprinkler. E. G. Hofmann. No. 57,043; Feb. 1; v. 283; p. 131.
- Toy table. C. J. Kern. No. 59,660; Nov. 15.
- Toy, Teeter. C. J. Kern. No. 59,659; Nov. 15.
- Toy, Teetering. G. J. Kallander. No. 59,356; Oct. 11.
- Toy telephone. T. C. Steen. No. 57,022; Jan. 25; v. 282; p. 693.
- Toy vacuum device. G. J. Kaye. No. 60,041; Dec. 20.
- Toy vehicle. H. T. Atkinson and B. Vale. No. 57,099; Feb. 22; v. 283; p. 709.
- Toy vehicle. G. Eklund. No. 57,894; May 17; v. 286; p. 581.
- Toy, Vehicle. R. M. G. Phillips. No. 58,255; June 28; v. 287; p. 735.
- Toy vehicle. F. Strauss. No. 59,941; Dec. 6.
- Toy wagon. S. I. Rose. No. 59,872; Nov. 29.
- Toy, Wheeled. E. B. Ferry. Nos. 59,343-4; Oct. 11.
- Toy, Whirling. J. Zbkowski. No. 58,526; July 26; v. 288; p. 781.
- Toy whistle. J. Bartolowsky. No. 59,323; Oct. 11.
- Toy windmill. P. Delich. No. 56,960; Jan. 25; v. 282; p. 684.
- Trace-carrier. J. Reichert. No. 59,682; Nov. 15.
- Traction-tread. G. L. Schofield. No. 59,379; Oct. 11.
- Tractor. G. W. Dunham. No. 58,466; July 26; v. 288; p. 769.
- Tractor. C. E. Sargent. No. 57,381; Mar. 15; v. 284; p. 553.
- Tractor. J. C. Westmont. No. 58,280; June 28; v. 287; p. 739.
- Tractor, Transmission-case for a. C. T. Penton. No. 58,626; Aug. 2; v. 289; p. 142.
- Tractor transmission-housing. J. M. Howard and C. J. Allen. No. 58,236; June 28; v. 287; p. 732.
- Tractor-wheel. A. R. Sandt. No. 57,155; Feb. 22; v. 283; p. 718.
- Traffic guard. M. C. Benham. No. 59,809; Nov. 29.
- Traffic-signal. F. F. Ellis. No. 59,726; Nov. 22.
- Traffic-signal. G. N. and O. W. Russel. No. 59,785; Nov. 22.
- Traffic-signal, Physician's. J. B. McAfee, E. D. Benton, and M. K. Davis. No. 57,697; Apr. 26; v. 285; p. 740.
- Transformers, Casing for. R. V. Bingay. No. 57,106; Feb. 22; v. 283; p. 710.
- Trap, Animal. M. E. Dorsch. No. 57,320; Mar. 15; v. 284; p. 543.
- Trash-receptacle and advertising-carrier, Combined. G. J. Richardson and W. Sachs. Nos. 57,379-80; Mar. 15; v. 284; p. 553.
- Tray. W. J. Hines. No. 57,650; Apr. 26; v. 285; p. 731.
- Tray, Ash-. L. Kelch. No. 57,913; May 17; v. 286; p. 584.
- Tray, Ash-. G. M. Minton. No. 58,925; Sept. 6; v. 290; p. 153.
- Tray, Box-. M. G. Becker. No. 58,538; Aug. 2; v. 289; p. 125.
- Tray, Combination match and ash. G. R. West. No. 58,052; May 31; v. 286; p. 1017.
- Tray, Desk-. F. J. Kristofek and H. L. Fischer. No. 56,929; Jan. 18; v. 282; p. 533.
- Tray, dish, plate, platter, bowl, compote, or analogous article. G. F. Parker. No. 56,942; Jan. 18; v. 282; p. 536.
- Tray or similar article. H. A. Heizmann. No. 58,186; June 21; v. 287; p. 548.
- Tray, Service-. D. Goodale. No. 57,968; May 24; v. 286; p. 799.
- Tray, Smoker's. G. M. Minton. No. 58,926; Sept. 6; v. 290; p. 153.
- Tray, Utility. J. Beiswanger. (Reissue.) No. 15,055; Mar. 8; v. 284; p. 322.
- Tray warmer, Serving-. W. C. Jurgens. No. 58,029; May 31; v. 286; p. 1014.
- Trays or some similar articles, Handle for. A. Barchoff. Nos. 59,534-5; Nov. 1.
- Tread-belt link. C. S. Johnson. No. 59,422; Oct. 18.
- Tree support, Christmas-. R. and F. J. Roesler. No. 58,830; Aug. 30; v. 289; p. 979.
- Trimming for fabrics and like material. R. Kehr. No. 59,010; Sept. 13; v. 290; p. 382.
- Trough, Combination water and feed. R. L. Carter. No. 57,212; Mar. 8; v. 284; p. 326.
- Trough, Feed-. A. N. Eaton. No. 57,119; Feb. 22; v. 283; p. 712.
- Truck-cab. F. G. Proctor. No. 59,980; Dec. 13.
- Truck cab, Auto-. F. G. Davis. No. 57,186; Mar. 1; v. 284; p. 144.
- Truck-caster. W. F. Herold. No. 58,751; Aug. 30; v. 289; p. 962.
- Truck, Motor-driven farm-. A. T. Sturt. No. 59,790; Nov. 22.
- Trucks, &c., Solid rubber tire for motor-. H. B. Coats. No. 59,717; Nov. 22.
- Tub with a cover, Laundry-. G. F. Reznor. No. 60,061; Dec. 20.
- Tumbler-holder. C. A. Mosgrove. No. 57,989; May 24; v. 286; p. 802.
- Tuning-fork and supporting-resonator, Master. J. C. Deagan. No. 56,959; Jan. 25; v. 282; p. 684.
- Tweezer. H. W. Armstrong. No. 58,208; June 28; v. 287; p. 727.
- Type, Font of. M. R. Hall. No. 57,522; Apr. 12; v. 285; p. 342.
- Type, Font of. B. F. Mannes. No. 57,536; Apr. 12; v. 285; p. 345.
- Umbrella and parasol tip. B. O. Wright. No. 58,861; Aug. 30; v. 289; p. 984.
- Umbrella-stand. A. S. Macdonald. No. 57,922; May 17; v. 286; p. 585.
- Undergarment. W. L. Siewers. No. 58,405; July 12; v. 288; p. 381.
- Uniform, Military. H. K. Meacham. No. 59,502; Oct. 25.
- Urn. G. E. Curtiss. No. 59,824; Nov. 29.
- Urn, Coffee-. I. C. Popper. No. 57,859; May 10; v. 286; p. 377.
- Urn, Coffee-. T. J. Topper. No. 59,135; Sept. 30; v. 290; p. 595.
- Urn, Percolating-. E. A. Farr. No. 58,473; July 26; v. 288; p. 771.
- Utensils, Knob for cooking or kitchen. G. E. Curtiss. No. 59,954; Dec. 13.
- Vacuum-insulated jug and casing therefor. G. P. Altenberg. No. 57,567; Apr. 26; v. 285; p. 716.
- Valve, Casing for a radiator air-. P. Mirk. No. 59,123; Sept. 20; v. 290; p. 592.
- Valve key, Deflating-. F. D. Goodlake. No. 57,329; Mar. 15; v. 284; p. 544.
- Valve-grinder, Portable electric. S. D. Black and A. G. Decker. No. 57,577; Apr. 26; v. 285; p. 718.
- Valves, Cap for air-. P. J. Griffin. No. 57,639; Apr. 26; v. 285; p. 729.
- Vanity-case. M. Berkowitz. No. 58,869; Sept. 6; v. 290; p. 142.
- Vanity-case, brooch, pin, &c. P. J. Thompson. No. 59,793; Nov. 22.
- Vaporizer for internal-combustion engines. J. H. Hopkins. No. 59,592; Nov. 8.
- Vase. F. H. La Pierre. No. 59,016; Sept. 13; v. 290; p. 383.
- Vase. M. Sherman. No. 59,036; Sept. 13; v. 290; p. 387.
- Vase, Flower-. L. H. Hirsch. No. 59,224; Oct. 4.
- Vault, Burial-. D. B. McKinney and J. Dusch. No. 57,440; Mar. 29; v. 284; p. 914.
- Vegetable-cutter. O. Reinert. No. 58,822; Aug. 30; v. 289; p. 977.
- Vehicle. F. A. Johanknecht. No. 58,490; July 26; v. 288; p. 775.
- Vehicle, Automotive. V. W. Page. No. 58,253; June 28; v. 287; p. 735.
- Vehicle, Beverage-dispensing. D. Richardson and C. N. Jacoby. No. 58,828; Aug. 30; v. 289; p. 978.
- Vehicle-body. C. H. Bowman. No. 58,542; Aug. 2; v. 289; p. 126.
- Vehicle-body. L. W. Ray. No. 58,257; June 28; v. 287; p. 735.
- Vehicle-body. G. J. Weldon. No. 59,393; Oct. 11.
- Vehicle, Child's. J. T. Casey. No. 58,659; Aug. 9; v. 289; p. 367.
- Vehicle, Child's. J. H. Howell. No. 57,229; Mar. 8; v. 284; p. 329.
- Vehicle, Child's. A. C. Klenke. No. 59,754; Nov. 22.
- Vehicle fender, Motor-. R. B. Fageol. No. 59,542; Oct. 11.
- Vehicle glare-shield. J. D. Banks. No. 58,696; Aug. 30; v. 289; p. 952.
- Vehicle-heater casing. C. S. Pelton. No. 57,148; Feb. 22; v. 283; p. 717.
- Vehicle hood, Motor-. J. F. Corl. Nos. 57,962-3; May 24; v. 286; p. 798.
- Vehicle, Motor-. D. Richardson and C. N. Jacoby. No. 58,827; Aug. 30; v. 289; p. 977.



*Alphabetical list of designs—Continued.*

- Vehicle or similar article. J. F. Benjamin. No. 57,304; Mar. 15; v. 284; p. 540.
- Vehicle spring suspension. N. Wyeth. No. 59,400; Oct. 11.
- Vehicle-top. J. Lowery. No. 57,782; May 3; v. 286; p. 155.
- Vehicle top, Motor-. G. E. Madison. No. 57,689; Apr. 26; v. 285; p. 738.
- Vehicle-tops, Corner-piece for. W. B. Larkins. No. 59,362; Oct. 11.
- Vehicle-wheel. J. L. Cracraft. No. 58,217; June 28; v. 287; p. 728.
- Vehicle-wheel. V. Lougheed. No. 57,921; May 17; v. 286; p. 585.
- Vehicle-wheel. A. M. Stanley. No. 58,164; June 14; v. 287; p. 359.
- Vehicle-wheel. R. H. West. No. 58,279; June 28; v. 287; p. 739.
- Vehicle wheel and fender assembly, Motor-. R. B. Fageol. Nos. 59,728-9; Nov. 22.
- Vehicle-wheel, Forged-steel. J. Manu. No. 57,246; Mar. 8; v. 284; p. 332.
- Vehicle, Wheeled. C. C. Church. No. 57,586; Apr. 26; v. 285; p. 720.
- Vehicles, Curtain-window for. W. R. Johnston. Nos. 58,760-3; Aug. 30; v. 289; p. 965.
- Vehicles, Direction-indicator for. G. E. Bates. No. 58,536; Aug. 2; v. 289; p. 125.
- Vehicles, Direction-indicator for motor-. S. C. Brendel. No. 59,812; Nov. 29.
- Vehicles, Face-plate for combination indicating instruments for motor-driven. B. H. Anibal. No. 58,230; Aug. 2; v. 289; p. 124.
- Vehicles, Face-plate for switch mechanism for motor-driven. B. H. Anibal. No. 58,531; Aug. 2; v. 289; p. 124.
- Vehicles, Footrest for children's. W. T. Green. No. 58,143; June 14; v. 287; p. 355.
- Vehicles, Handle for children's. W. T. Green. No. 58,224; June 28; v. 287; p. 730.
- Vehicles, Instrument-board for motor-. B. H. Anibal. No. 58,532; Aug. 2; v. 289; p. 124.
- Vehicles, Radius-rod for. L. C. Wendland. No. 58,959; Sept. 6; v. 290; p. 159.
- Vehicles, Seat-body for children's. H. D. Boyer. No. 58,065; June 7; v. 287; p. 151.
- Vehicles, Seat-body for children's. H. G. Norwood. No. 58,041; May 31; v. 286; p. 1016.
- Vehicles, Sleigh-knee for heavy. J. F. Schmidt. No. 59,935; Dec. 6.
- Vehicles, Steering-head for children's. W. T. Green. No. 58,145; June 14; v. 287; p. 355.
- Vehicles, Tail-light for. V. I. Ciley. No. 58,712; Aug. 30; v. 289; p. 955.
- Vehicles, Wheel-fork for children's. W. T. Green. No. 58,144; June 14; v. 287; p. 355.
- Velocipede, Child's. W. M. Cobb. Nos. 59,335-6; Oct. 11.
- Velocipede, Child's. J. K. Tully. No. 59,389; Oct. 11.
- Velocipede, Child's. J. K. Tully. No. 60,071; Dec. 20.
- Velocipede-frame. L. J. Baribault. Nos. 57,807-8; May 10; v. 286; p. 368.
- Vending-machine casing. F. Q. Rast. No. 60,120; Dec. 27.
- Vending-machines, Punch-board for. J. W. Hoodwin. No. 59,476; Oct. 25.
- Ventilator. C. O. Whitnell. No. 59,879; Nov. 29.
- Vest. A. M. Qua. No. 58,399; July 12; v. 288; p. 380.
- Waffle-iron. W. V. Bozzelle and J. W. Hummel. No. 57,961; May 24; v. 286; p. 798.
- Waffle-iron. C. M. Burbank. No. 59,710; Nov. 22.
- Waffle-iron. J. F. Lamb. No. 59,496; Oct. 25.
- Waffle-iron, Electrically-heated. F. F. Forshee. No. 59,957; Dec. 13.
- Wall-bracket and lamp, Combined. H. C. Adam. No. 60,005; Dec. 20.
- Wall-bracket or candelabrum for electric and other illumination. J. W. Davidson. No. 57,964; May 24; v. 286; p. 798.
- Wall corner-receptacle. H. D. Lillibridge. No. 58,784; Aug. 30; v. 289; p. 969.
- Wall-receptacle. H. D. Lillibridge. Nos. 58,780-3; Aug. 30; v. 289; pp. 968-9.
- Wall-receptacle. H. D. Lillibridge. No. 58,785; Aug. 30; v. 289; p. 970.
- Wall-sconce, Electric-candle. F. A. Frerichs. No. 57,428; Mar. 29; v. 284; p. 911.
- Wardrobe-trunks, Butterfly garment-retainer for. W. W. Dodge. No. 58,725; Aug. 30; v. 289; p. 957.
- Wardrobe-trunks, Oval garment-retainer for. W. W. Dodge. No. 58,726; Aug. 30; v. 289; p. 958.
- Washbasin. R. E. Crane. No. 57,770; May 3; v. 286; p. 153.
- Washboard. C. Sholin. No. 59,383; Oct. 11.
- Washboard, Hand-. W. A. Harwi. No. 59,079; Sept. 20; v. 290; p. 582.
- Washer. J. R. Armstrong. No. 56,847; Jan. 4; v. 282; p. 158.
- Washing-machine. J. J. Finucane. No. 59,828; Nov. 29.
- Washing-machine. H. C. Hirschy. No. 59,748; Nov. 22.
- Washing-machine casing. R. G. Clyde and K. Rayburn. No. 58,548; Aug. 2; v. 289; p. 127.
- Washing-machine casing. N. Lombard. No. 58,922; Sept. 6; v. 290; p. 152.
- Washing-machine tub. C. W. Swanson. No. 57,172; Feb. 22; v. 283; p. 721.
- Washing-machines, Gear-casing for. H. O. Bartlett. No. 57,809; May 10; v. 286; p. 368.
- Washtub. C. and F. Maganuco. No. 58,152; June 14; v. 287; p. 357.
- Watch and key-ring strap, Combined. D. R. McCullough. No. 59,025; Sept. 13; v. 290; p. 385.
- Watch-bow. F. G. Gruen. No. 59,741; Nov. 22.
- Watch-bow. E. A. Phinney. No. 59,868; Nov. 29.
- Watch-bow, Pendant. S. Spitzer. No. 59,986; Dec. 13.
- Watch case-bow. A. W. Wadsworth. No. 57,875; May 10; v. 286; p. 380.
- Watch case or locket. J. Daving. No. 58,021; May 31; v. 286; p. 1012.
- Watch-chain. J. T. Tennefess. No. 59,612; Nov. 8.
- Watch-fob. A. S. Hokanson. No. 56,874; Jan. 4; v. 282; p. 162.
- Watch-fob. J. J. McAvoy. No. 59,244; Oct. 4.
- Watch-movement case. S. K. Ouzoun-Boghossian. No. 58,498; July 26; v. 288; p. 776.
- Watch, Wrist. F. G. Gruen. Nos. 59,739-40; Nov. 22.
- Watchcase. M. Megurovsky. No. 59,853; Nov. 29.
- Watchcase-bow. J. McGrevy. No. 59,247; Oct. 4.
- Watchcases, Crown and bow for. I. Koket. No. 58,915; Sept. 6; v. 290; p. 151.
- Watchcases, Ribbon loop for. J. McGrevy. Nos. 59,762-3; Nov. 22.
- Water-fixture. P. Mueller. Nos. 56,935-6; Jan. 18; v. 282; p. 534.
- Water-heater, Gas. J. O. Smith. No. 59,437; Oct. 18.
- Water-heaters, Gas-burner for. L. V. Gelder. No. 57,633; Apr. 26; v. 285; p. 728.
- Weather-forecasting device. R. Lancaster. No. 60,101; Dec. 27.
- Wedding-ring. C. B. Namiot. No. 58,617; Aug. 2; v. 289; p. 140.
- Welding-blowpipe or similar article. E. H. Meden. No. 59,568; Oct. 11.
- Wheel. G. H. Forsyth. Nos. 57,966-7; May 24; v. 286; pp. 798-9.
- Wheel. A. L. Putnam. No. 57,861; May 10; v. 286; p. 377.
- Wheel. F. Richard. No. 57,725; Apr. 26; v. 285; p. 744.
- Wheel-chock. V. R. Francis. No. 57,774; May 3; v. 286; p. 153.
- Wheel, Disk. L. B. Harvey. No. 57,776; May 3; v. 286; p. 154.
- Wheel, Disk. L. B. Harvey. No. 57,973; May 24; v. 286; p. 800.
- Wheel disk, Vehicle-. A. L. Putnam. No. 57,264; Mar. 8; v. 284; p. 335.
- Wheel-holder. R. B. Stipes and J. D. Goodwin. No. 58,260; June 28; v. 287; p. 736.
- Wheel, Tractor-. W. S. Stothoff. Nos. 56,898-9; Jan. 4; v. 282; p. 167.
- Wheel, Truck-. W. S. Stothoff. No. 56,897; Jan. 4; v. 282; p. 167.
- Wheels, Hub-shell for wire. H. A. House, Jr. No. 59,352; Oct. 11.
- Whistle. E. H. Clarke. No. 59,816; Nov. 29.
- Whistle. E. S. De Tangle. No. 59,340; Oct. 11.
- Whistle. J. W. Glenn. No. 59,737; Nov. 22.
- Whistle, Song-. A. Mortensen and M. L. Higley. No. 56,986; Jan. 25; v. 282; p. 688.
- Wig, Doll-. O. Tollender. No. 58,900; Sept. 6; v. 290; p. 148.
- Wind-deflector. A. Williams. No. 57,804; May 3; v. 286; p. 158.
- Wind-deflector clamp. F. W. Stair. No. 57,021; Jan. 25; v. 282; p. 693.
- Windshield. J. A. Miller. No. 57,703; Apr. 26; v. 285; p. 741.
- Windshield-blinds, Bracket for. H. A. Kaitting. No. 57,977; May 24; v. 286; p. 800.
- Windshield-clip, Blind-holding. H. A. Kaitting. No. 59,355; Oct. 11.
- Windshield-wing. R. D. Parker. No. 59,428; Oct. 18.
- Windshields, Sunshade and vizor for vehicle. G. A. Holsberg. No. 57,653; Apr. 26; v. 285; p. 732.
- Window-fastener. H. Dalitz. No. 58,219; June 28; v. 287; p. 729.
- Window, name-plate, &c. E. Wooler. No. 56,905; Jan. 4; v. 282; p. 168.
- Woven fabric or similar article. L. H. Brewster. No. 57,492; Apr. 12; v. 285; p. 337.
- Wrecking-bar. C. Nelson. No. 59,371; Oct. 11.
- Wrench. V. A. Anderson. No. 58,454; July 26; v. 288; p. 767.
- Wrench. L. Campbell, Sr. No. 57,113; Feb. 22; v. 283; p. 711.
- Wrench. A. Chadwick. No. 57,768; May 3; v. 286; p. 152.
- Wrench. C. C. Evans. No. 57,323; Mar. 15; v. 284; p. 543.
- Wrench. J. Kropacz. No. 57,676; Apr. 26; v. 285; p. 736.
- Wrench. J. A. Mallett. No. 57,847; May 10; v. 286; p. 375.
- Wrench. P. Piotrowski. No. 56,945; Jan. 18; v. 282; p. 536.



- Wrench. G. E. Sharp. No. 56,895; Jan. 4; v. 282; p. 167.  
 Wrench or similar hand-tools, Handle for. S. A. Safford. No. 57,153; Feb. 22; v. 283; p. 718.  
 Wrench, Socket-. D. F. Graham. No. 57,775; May 3; v. 286; p. 154.  
 Wrench, Socket-. D. F. Graham. No. 59,417; Oct. 18.  
 Wrenches or similar hand tools, Handle for. L. A. Safford. No. 59,786; Nov. 22.  
 Wringer-frame. A. W. Altorfer. No. 57,422; Mar. 29; v. 284; p. 910.  
 Wristband-clasp. F. G. Gruen. No. 57,641; Apr. 26; v. 285; p. 730.  
 X-Ray apparatus, Standard for. O. H. and A. F. Pieper. No. 60,059; Dec. 20.  
 X-ray machine, Combined cabinet and standard for. P. Maloney. No. 56,931; Jan. 18; v. 282; p. 533.

## ALPHABETICAL LIST OF TRADE-MARKS.

- Abrasive material, crushed abrasive material, (ungraded,) and abrasive grains, Crude. White Heat Products Company. No. 149,288; Dec. 6.  
 Abrasive material, Granular. Norton Company. No. 140,917; Mar. 29; v. 284; p. 947.  
 Abrasive papers and cloths. United States Sand Paper Co. No. 141,453; Apr. 19; v. 285; p. 569.  
 Abrasive powder and wheels. White Heat Products Company. No. 145,862; Aug. 16; v. 289; p. 599.  
 Abrasive products. Norton Company. No. 148,188; Nov. 8.  
 Abrasive wheels, Unmounted. E. C. Atkins & Company. No. 142,435; May 17; v. 286; p. 624.  
 Abrasives coated on cloth or paper, or both. Manning Abrasive Co. No. 142,605; May 17; v. 286; p. 629.  
 Abrasives coated on cloth or paper, or both. Manning Abrasive Co. No. 144,842; July 19; v. 288; p. 620.  
 Absorbent material to absorb gases. Barnebey-Cheney Engineering Company. No. 146,172; Sept. 6; v. 290; p. 197.  
 Accessories for motor cars and cycles. Herbert Terry & Sons. No. 142,152; May 3; v. 286; p. 191.  
 Accounting-forms. Curwin's Accountancy Co. No. 146,207; Sept. 6; v. 290; p. 198.  
 Acid ester of salicylic acid, Salicylic-. Merck & Co. No. 138,838; Jan. 11; v. 282; p. 377.  
 Acid, Fixing and developing. Arkansas Distributing Co. No. 147,474; Oct. 18.  
 Acid, Sulfuric. The Eagle-Picher Lead Co. No. 138,809; Jan. 11; v. 282; p. 376.  
 Acid, Sulfuric. Southern Agricultural Chemical Corporation. No. 146,880; Sept. 20; v. 290; p. 637.  
 Acoustic appliances. Mazer Acoustile Company. No. 142,019; May 3; v. 286; p. 187.  
 Adding, listing, calculating, and bookkeeping machines. Wales Adding Machine Company. No. 139,105; Jan. 18; v. 282; p. 561.  
 Adding-machines. Erie Calculator Co. No. 141,543; Apr. 26; v. 285; p. 779.  
 Adding-machines. Federal Adding Machine Corporation. No. 145,504; Aug. 2; v. 289; p. 184.  
 Addresses, &c., Machines for printing. Addressograph Company. No. 147,447; Oct. 18.  
 Adhesives, Certain. R. M. Hollingshead Co. No. 149,948; Dec. 27.  
 Adhesive tape for repair purposes, &c. Smooth-On Manufacturing Company. No. 145,814; Aug. 16; v. 289; p. 598.  
 Adhesives, compounds, &c. National Rubber & Specialties Co. No. 142,064; May 3; v. 286; p. 188.  
 Advertising and directional signs, Electrical. Viking Sign Company. No. 144,963; July 19; v. 288; p. 623.  
 Advertising literature. Tolman Print Inc. No. 142,902; May 17; v. 286; p. 642.  
 Advertising literature. Tolman Print Inc. No. 146,516; Sept. 6; v. 290; p. 217.  
 Advertising novelties. Tolman Print Inc. No. 147,419; Oct. 11.  
 Aeroplanes and parts thereof. Commercial Aeroplane Wing Syndicate. No. 143,574; June 7; v. 287; p. 182.  
 Agricultural and milling machinery. J. B. Sedberry. No. 149,733; Dec. 20.  
 Agricultural implements. B. F. Avery & Sons. No. 141,852; May 3; v. 286; p. 182.  
 Agricultural implements. C. W. Genung. No. 144,217; June 28; v. 287; p. 774.  
 Agricultural implements. International Harvester Company. No. 140,845; Mar. 29; v. 284; p. 944.  
 Agricultural implements. International Harvester Company. Nos. 144,586-7; July 12; v. 288; p. 424.  
 Agricultural implements. Samson Tractor Company. No. 142,743; May 17; v. 286; p. 633.  
 Agricultural implements and parts thereof. Deere & Company. No. 139,517; Feb. 8; v. 283; p. 350.  
 Agricultural machinery. Moline Plow Company. No. 139,462; Feb. 1; v. 283; p. 176.  
 Agricultural machinery and parts thereof. International Harvester Company. No. 142,582; May 17; v. 286; p. 628.  
 Agricultural machinery and parts thereof, Certain. International Harvester Company. No. 145,119; July 26; v. 288; p. 814.  
 Air compressors and ejectors. Alberger Pump and Condenser Company. No. 145,240; July 26; v. 288; p. 819.  
 Air-compressors and semiportable air-compressor outfits, Portable, &c. Mundie Manufacturing Company. No. 140,493; Mar. 15; v. 284; v. 584.  
 Air-compressors, pumps, turbines, and turbine-engines. Nash Engineering Co. No. 149,460; Dec. 13.  
 Air-feeding devices for stoves, &c. J. Y. King. No. 142,374; May 10; v. 286; p. 409.  
 Air-washers. R-W Company. No. 143,736; June 7; v. 287; p. 187.  
 Airplanes and flying-boats. Aeromarine Plane & Motor Company. No. 139,733; Feb. 15; v. 283; p. 543.  
 Alcohol, Denatured. Kentucky Distilleries & Warehouse Co. No. 148,877; Nov. 29.  
 Alcohol, Diacetone. Alcohol Products Company. No. 141,828; May 3; v. 286; p. 181.  
 Alcohol, Ethyl. American Distilling Co. No. 141,835; May 3; v. 286; p. 181.  
 Alcohol, Ethyl. U. S. Industrial Alcohol Co. No. 150,148; Dec. 27.  
 Alcohol for bathing, massage, &c., Composition containing. U. S. Industrial Alcohol Co. Nos. 148,287-8; Nov. 8.  
 Alcohol, Non-beverage grain-. Geo. Wiedemann Company. No. 150,176; Dec. 27.  
 Alcohols and potash, soda, barium, and chrome salts, Denatured. Western Industries Co. No. 144,086; June 21; v. 287; p. 583.  
 Ale and beer, Pale. Bass, Ratcliff & Gretton. No. 138,572; Jan. 4; v. 282; p. 185.  
 Alkaline rhubarb compound. William S. Merrell Company. No. 141,608; Apr. 26; v. 285; p. 781.  
 Alloy containing nickel and copper, Metal. International Nickel Co. No. 142,583; May 17; v. 286; p. 628.  
 Alloy, Gold. Arnold Schroetter & Co. No. 141,667; Apr. 26; v. 285; p. 783.  
 Alloy steels in bars, billets, and shapes. The Carpenter Steel Company. No. 138,785; Jan. 11; v. 282; p. 375.  
 Alloy steels in bars, billets, and shapes. The Carpenter Steel Company. Nos. 138,789-91; Jan. 11; v. 282; p. 375.  
 Alloy steels in bars, billets, and shapes. The Carpenter Steel Company. No. 138,793; Jan. 11; v. 282; p. 375.  
 Alloys, Acid-resisting. Midwest Engine Company. No. 139,167; Jan. 25; v. 282; p. 735.  
 Alloys, Aluminum. A. Pacz. No. 145,170; July 26; v. 288; p. 815.  
 Alloys and castings and forgings, Light metal. Dow Chemical Company. No. 144,747; July 19; v. 288; p. 617.  
 Alloys, Ferro. The Kinite Company. No. 139,560; Feb. 8; v. 283; p. 351.  
 Alloys, Metal. American Boron Products Company. Nos. 142,852-3; May 17; v. 286; p. 637.  
 Alloys, Non-ferrous. Aterite Co. No. 144,691; July 19; v. 288; p. 615.  
 Alloys, Non-ferrous. United American Metals Corporation. No. 139,906; Feb. 22; v. 283; p. 755.  
 Alloys, White-metal. Pan American Smelting Works. No. 138,847; Jan. 11; v. 282; p. 377.  
 Almanac. O. E. Bruder. No. 140,088; Mar. 8; v. 284; p. 363.  
 Alternative. C. H. Brooks. No. 142,949; May 24; v. 286; p. 844.  
 Almonds. California Almond Growers Exchange. No. 141,883; May 3; v. 286; p. 183.  
 Aluminum and aluminum alloys, Ingots, castings, &c., of. Acieral Company of America. No. 143,879; June 21; v. 287; p. 577.  
 Aluminum, brass, Babbitt metal, copper, zinc. Aurora Refining Company. No. 139,113; Jan. 25; v. 282; p. 733.  
 Ammeters and voltmeters, oil-pressure gages, oil-indicators. W. G. Nagel Electric Co. Nos. 140,595-6; Dec. 13.  
 Ammeters, voltmeters, and wattmeters. Pocket. Metric Appliance Corporation. No. 141,169; Apr. 12; v. 285; p. 382.  
 Ammonia. D. Robinson. No. 148,732; Nov. 22.  
 Amusement devices. L. Raymond. No. 142,099; May 3; v. 286; p. 189.  
 Amusement game apparatus, Horse-racing. L. A. Elfman. No. 148,648; Nov. 22.  
 Amusement-vehicle. J. J. Stock. No. 150,133; Dec. 27.  
 Anchors and certain castings. American Steel Foundries. No. 148,982; Dec. 6.  
 Anchors and parts of machinery. American Standard Ship Fitting Corporation. No. 140,730; Mar. 29; v. 284; p. 941.  
 Anesthetic compound. Abbott Laboratories. No. 147,893; Nov. 8.  
 Anesthetic for use in dentistry. A. M. Abrams. No. 146,060; Aug. 30; v. 289; p. 1013.



*Alphabetical list of trade-marks—Continued.*

- Anesthetic for use in painless extraction of teeth and in general surgery. Local. Dr. O. W. Green & Dr. L. O. Green. No. 139,031; Dec. 27.
- Anesthetic, Local. A. E. Healy. No. 145,689; Aug. 16; v. 289; p. 594.
- Anesthetics. The Abbott Laboratories. No. 138,767; Jan. 11; v. 282; p. 375.
- Anesthetics, Local. Novocol Chemical M'fg. Co. No. 146,826; Sept. 20; v. 290; p. 636.
- Anilin and other dyestuffs and related products. Dicks, David Co. No. 147,984; Nov. 8.
- Anodyne, antipruritic ointment. Sharp & Dohme. No. 146,504; Sept. 6; v. 290; p. 215.
- Ant-destroyer. B. Heller & Co. No. 141,292; Apr. 12; v. 285; p. 388.
- Ant-exterminators, Liquid. J. H. Edelen. No. 146,084; Aug. 30; v. 289; p. 1013.
- Antileak compound. Cumings Brothers. No. 141,106; Apr. 12; v. 285; p. 380.
- Antipyretic and diaphoretic capsules for headaches, colds and la grippe. The Morton Chemical Company. No. 138,840; Jan. 11; v. 282; p. 377.
- Antirheumatic, analgesic, and antipyretic. Bayer Company. No. 148,636; Nov. 22.
- Antiseptic. T. W. Blakeslee. No. 140,754; Mar. 29; v. 284; p. 942.
- Antiseptic. Van Vleet-Mansfield Drug Co. No. 146,014; Aug. 23; v. 289; p. 789.
- Antiseptic and bactericidal agent for use in both human and veterinary fields. Zell-Straub Laboratories. No. 138,751; Jan. 4; v. 282; p. 190.
- Antiseptic cones for female debility. J. S. Gaudynski. No. 143,964; June 21; v. 287; p. 579.
- Antiseptic, disinfectant, &c. American Laboratories. No. 141,836; May 3; v. 286; p. 181.
- Antiseptic, disinfectant, and deodorant. Southern Chemical Company. No. 138,707; Jan. 4; v. 282; p. 189.
- Antiseptic fluid. Alex. D. Shaw & Co. No. 144,471; July 5; v. 288; p. 195.
- Antiseptic for asthma, neuralgia, and influenza. Natiff Medicine Co. No. 140,182; Mar. 8; v. 284; p. 366.
- Antiseptic for use after shaving. Tansch Company. No. 148,744; Nov. 22.
- Antiseptic for wounds, burns, and old ulcers. Oily. Knost & Dietz Chemical Co. No. 140,414; Mar. 15; v. 284; p. 582.
- Antiseptic, germicide, and medicinal treatment for pyorrhea. J. D. Mason. No. 150,001; Dec. 27.
- Antiseptic healing preparation. C. W. Treverton. No. 145,840; Aug. 16; v. 289; p. 398.
- Antiseptic in the form of powder, tablets and cream. Preston Chemical Company. No. 140,939; Mar. 29; v. 284; p. 947.
- Antiseptic, &c., in the treatment of disordered conditions of the uterus and vagina. William S. Merrell Company. No. 142,026; May 3; v. 286; p. 187.
- Antiseptic, Liquid. J. N. Cole. No. 143,572; June 7; v. 287; p. 182.
- Antiseptic mentholated cream. Firstade Laboratories. No. 143,801; June 7; v. 287; p. 191.
- Antiseptic mouth-washes. F. S. Carroll. No. 148,639; Nov. 22.
- Antiseptic ointment. W. F. Severa Co. No. 147,164; Oct. 4.
- Antiseptic powder. Sharp & Dohme. No. 140,435; Mar. 15; v. 284; p. 582.
- Antiseptic powder. Winthrop Chemical Company. No. 145,872; Aug. 16; v. 289; p. 599.
- Antiseptic powder for relieving burns. J. Pagnotta. No. 146,658; Sept. 13; v. 290; p. 429.
- Antiseptic powder of copper, alum, and zinc. Darbonnier & Saperstein. No. 147,585; Oct. 25.
- Antiseptic solution. Aseptico Laboratories. No. 143,538; June 7; v. 287; p. 181.
- Antiseptic solution. J. B. Haymore. No. 145,688; Aug. 16; v. 289; p. 594.
- Antiseptic solution. Sharp & Dohme. No. 146,502; Sept. 6; v. 290; p. 215.
- Antiseptic solution. Sharpe-Philippi Co. No. 138,862; Jan. 11; v. 282; p. 378.
- Antiseptic solution. C. D. Smith Drug Co. No. 146,366; Sept. 6; v. 290; p. 203.
- Antiseptic solution. M. Strozzi. No. 139,899; Feb. 22; v. 283; p. 755.
- Antiseptic, tonic laxative, and nerve tonic, Alkaline. Physician's Drug Manufacturing Association. No. 147,018; Sept. 27; v. 290; p. 805.
- Antiseptic tooth-powder. E. A. Welters. No. 141,015; Mar. 29; v. 284; p. 950.
- Antiseptics. M. J. Griffith. No. 146,990; Sept. 27; v. 290; p. 804.
- Antiseptics and dentifrices. H. E. Kraft. No. 140,620; Mar. 22; v. 284; p. 745.
- Antiseptics and liniments. W. F. Young, Inc. No. 139,917; Feb. 22; v. 283; p. 756.
- Antiseptics, Packaged. Davis & Geck. No. 140,103; Mar. 8; v. 284; p. 364.
- Antitoxin. T. B. Chemical Company. No. 146,070; Aug. 30; v. 289; p. 1013.
- Apierent, Saline. J. C. Eno, Limited. No. 148,010; Nov. 8.
- Apparatus for maintaining constant current on Coolidge tubes. Roentgen Appliance Company. No. 142,389; May 10; v. 286; p. 410.
- Apparel, Ladies' wearing-. A. H. Flanders Company. No. 144,763; July 19; v. 288; p. 617.
- Apparel, Ladies' wearing-. J. A. Goldstein. No. 149,776; Dec. 20.
- Apparel, Ladies' wearing-. E. Grossman. No. 141,754; Apr. 26; v. 285; p. 788.
- Apparel, Women's, children's, and infants' outer wearing-. M. Ainbinder. No. 143,529; June 7; v. 287; p. 181.
- Apple-butter. Highland Apple Company. No. 146,103; Aug. 30; v. 289; p. 1014.
- Apple-butter, jam, &c. Temtor Corn & Fruit Products Co. No. 147,173; Oct. 4.
- Apples, Barreled fresh. B. R. Richards. No. 139,618; Feb. 8; v. 283; p. 353.
- Apples, Evaporated. Northwest Evaporating Company. No. 141,626; Apr. 26; v. 285; p. 782.
- Apples, Fresh. H. H. Davis. No. 139,784; Feb. 22; v. 283; p. 752.
- Apples, Fresh. Fruit Supply Company. No. 138,968; Jan. 18; v. 282; p. 554.
- Apples, Fresh. Israel Orchard Co. No. 144,886; July 19; v. 288; p. 621.
- Apples, Fresh. Reliable Fruit & Produce Co. No. 144,453; July 5; v. 288; p. 194.
- Apples, Fresh. R. A. Tedford & Company. No. 143,757; June 7; v. 287; p. 188.
- Apples, potatoes, and milk, dressed chickens, Fresh. P. N. Popason. No. 149,468; Dec. 13.
- Apron-dresses. Mayer & Neuburger Company. No. 147,358; Oct. 11.
- Aprons. R. H. Macy & Co. No. 149,154; Dec. 6.
- Aprons and bloomers, Woman's. Rhea Manufacturing Company. No. 147,881; Nov. 1.
- Aprons and house-dresses. Ward-Stilson Company. No. 145,588; Aug. 9; v. 289; p. 408.
- Aprons, belts, &c., Ladies' sanitary. M. S. George. No. 138,623; Jan. 4; v. 282; p. 187.
- Aprons, house-dresses, rompers, &c., Bungalow-. J. S. Oppenheimer. Nos. 142,313-14; May 10; v. 286; p. 405.
- Aqua-ammonia. National Ammonia Company. No. 147,503; Oct. 18.
- Arch support, Instep-. Scholl Manufacturing Company. No. 139,469; Feb. 1; v. 283; p. 177.
- Arch-supporters and bunion-protectors. Lynn Rubber Manufacturing Company. No. 146,587; Sept. 13; v. 290; p. 422.
- Armbrands, garters, and suspenders. Slonim Brothers. Nos. 138,705-6; Jan. 4; v. 282; p. 189.
- Armored conductors and flexible steel conduits. Eastern Tube & Tool Company. No. 148,824; Nov. 29.
- Arsenical compounds, Solutions of medicinal. Lowy Laboratory, Inc. No. 140,542; Mar. 15; v. 284; p. 586.
- Artificial alkalinized hydrated ferric oxid. Alpha-Lux Company. No. 143,273; May 31; v. 286; p. 1047.
- Ash-sifters. Nichtenhauser & Levy. No. 141,792; Apr. 26; v. 285; p. 791.
- Asphalt, artificial asphalt, roof-felting, &c. Aktiengesellschaft Johannes Jeserich. No. 141,827; May 3; v. 286; p. 181.
- Asphaltum. Barber Asphalt Paving Company. No. 144,545; July 12; v. 288; p. 423.
- Asphaltum. Standard Oil Company of New York. No. 144,944; July 19; v. 288; p. 623.
- Asphaltum-base paint. United States Asphalt Refining Company. No. 149,621; Dec. 18.
- Aspirin. E. L. Miller. No. 144,612; July 12; v. 288; p. 425.
- Aspirin tablets. J. C. Patterson. No. 148,204; Nov. 8.
- Asmatic papers and cigarettes not containing tobacco. Lundy, Wilson & Company. No. 149,994; Dec. 27.
- Attachments and diaphragms. Phonograph. S. B. Williamson. No. 145,871; Aug. 16; v. 289; p. 599.
- Attrition-mills. Engelberg Huller Company. No. 147,211; Oct. 4.
- Attrition mills and coffee shellers. Engelberg Huller Company. No. 149,913; Dec. 27.
- Auto-bodies, Chemical preparation for the removal of road-tar from. Solene Products Company. No. 149,508; Dec. 13.
- Auto dri-mist, cedar floor-polish; duck-back wax. E. K. Lincoln. No. 147,631; Oct. 25.
- Auto, piano, and furniture polish. F. M. Taft. No. 138,873; Jan. 11; v. 282; p. 378.
- Auto-top dressing. Lowe Brothers. Company. No. 150,204; Dec. 27.
- Automobile accessories. Haines Manufacturing Corporation. No. 148,064; Nov. 8.
- Automobile accessories. Owl Auto Products Company. No. 148,195; Nov. 8.
- Automobile accessories. United Auto Stores. No. 148,551; Nov. 15.
- Automobile accessory. Hudson Motor Specialties Company. No. 140,041; Mar. 1; v. 284; p. 176.
- Automobile air and water filling posts. Williams-Loper. No. 146,282; Sept. 6; v. 290; p. 201.
- Automobile and furniture polish. H. L. Feasel. No. 147,483; Oct. 18.
- Automobile and furniture polish. H. Hilton. No. 141,139; Apr. 12; v. 285; p. 381.
- Automobile and furniture polish. J. W. Olts. No. 150,036; Dec. 27.



- Automobile and locomotive cylinders, Machine for boring. W. L. Brubaker & Bros. No. 145,253; July 26; v. 288; p. 821.
- Automobile-bodies. Economy Hoist and Body Company. No. 145,351; Aug. 2; v. 289; p. 178.
- Automobile bodies and frames. Greyhound Motors Corporation. No. 145,104; July 26; v. 288; p. 813.
- Automobile-bodies and parts thereof. Pierce-Arrow Motor Car Company. No. 147,669; Oct. 25.
- Automobile bodies and underframes. Mercury Body Corporation. No. 138,670; Jan. 4; v. 282; p. 188.
- Automobile-bodies, carriages, &c. Clayton Company. No. 143,305; May 31; v. 286; p. 1048.
- Automobile-body, furniture, and piano polishing material. M. T. Mallon. No. 145,980; Aug. 23; v. 289; p. 788.
- Automobile-body, piano, &c., polish. F. M. Pisculli. No. 141,201; Apr. 12; v. 285; p. 383.
- Automobile-body polish. Sta-Brite Manufacturing Company. No. 142,145; May 3; v. 286; p. 191.
- Automobile-body polish. I. C. Zachary. No. 145,493; Aug. 2; v. 289; p. 182.
- Automobile-brake lining. Cumings Brothers. No. 141,105; Apr. 12; v. 285; p. 380.
- Automobile-brake linings. Russell Manufacturing Company. No. 146,050; Aug. 23; v. 289; p. 794.
- Automobile-bumpers. Milwaukee Auto Engine & Supply Company. No. 149,701; Dec. 20.
- Automobile-bumpers. Ramspring Bumper Co. No. 148,519; Nov. 15.
- Automobile-bumpers, pedal-rubbers. Federal Rubber Company. Nos. 147,768-9; Nov. 1.
- Automobile-bumpers, pedal-rubbers. Federal Rubber Company. No. 147,771; Nov. 1.
- Automobile direction-signals, Mechanically-actuated. P.A.-T-S Manufacturing Company. No. 148,203; Nov. 8.
- Automobile enameled fenders, body, &c., Polish and cleaner for. Hall-Thompson Company. No. 140,271; Mar. 8; v. 284; p. 371.
- Automobile fan-belts of canvas. Fabric Belt & Lace Co. No. 140,350; Mar. 15; v. 284; p. 581.
- Automobile, floor, &c., polish. D. D. Wolfram. No. 149,555; Dec. 13.
- Automobile, furniture, &c., polish. L. B. Wade Co. No. 150,158; Dec. 27.
- Automobile, furniture, &c., polish. A. F. Weise. No. 143,769; June 7; v. 287; p. 188.
- Automobile, furniture, &c., polishes. H. A. Ertley. No. 148,399; Nov. 15.
- Automobile, furniture, &c., polishes. R. B. Wright. No. 149,559; Dec. 13.
- Automobile gears and shafting, transmission-gears, &c. Automotive Gear Works. No. 148,988; Dec. 6.
- Automobile-heater utilizing explosive-engine-exhaust heat. Miller-West Company. No. 149,167; Dec. 6.
- Automobile inner tubes. Dural Rubber Corp. No. 139,736; Feb. 15; v. 283; p. 543.
- Automobile-lock. R. E. Adreon. No. 142,406; May 17; v. 286; p. 623.
- Automobile oil-gages. Wallace Motor Products Corporation. No. 142,166; May 3; v. 286; p. 192.
- Automobile-pedals. G. I. Staderker. No. 147,249; Oct. 4.
- Automobile, piano, and furniture polish. H. M. Zeigler & Son. No. 146,922; Sept. 20; v. 290; p. 639.
- Automobile, piano, furniture, &c., polish. Noxal Polish Manufacturing Company. No. 146,825; Sept. 20; v. 290; p. 636.
- Automobile-polish. C. Kranzler. No. 142,286; May 10; v. 286; p. 404.
- Automobile-polish. I. P. Perryman. No. 139,867; Feb. 22; v. 283; p. 754.
- Automobile-radiators. Modine Manufacturing Company. No. 144,443; July 5; v. 288; p. 194.
- Automobile-radiators, Compound for removing deposit from. Northwestern Chemical Co. No. 139,858; Feb. 22; v. 283; p. 754.
- Automobile-rim clamps, wedges and bolts for same. Thompson-Neaylon Manufacturing Co. No. 138,722; Jan. 4; v. 282; p. 190.
- Automobile-rim tools. K. P. Products Co. No. 147,461; Oct. 18.
- Automobile seats and chairs. Fort Pitt Bedding Company. No. 142,539; May 17; v. 286; p. 627.
- Automobile-springs. Champion Auto Spring Company. No. 140,343; Mar. 15; v. 284; p. 580.
- Automobile steering posts and wheels, Lock for. Simplex Corporation. No. 146,507; Sept. 6; v. 290; p. 216.
- Automobile-tire-repair outfits. Magic Auto Supply Company. No. 142,601; May 17; v. 286; p. 629.
- Automobile tires and patches. Loeser & Sons. No. 140,874; Mar. 29; v. 284; p. 945.
- Automobile tools and accessories. Cantwell-Miller Manufacturing Company. No. 141,332; Apr. 19; v. 285; p. 565.
- Automobile-tops. American Auto Top Company. No. 146,627; Sept. 13; v. 290; p. 425.
- Automobile-tops. Mills Cabinet Company. No. 141,044; Mar. 29; v. 284; p. 953.
- Automobile-tops. J. G. Trumbly. No. 139,414; Feb. 1; v. 283; p. 172.
- Automobile-tops and side-curtain attachments. Longdin-Brugger Co. No. 140,425; Mar. 15; v. 284; p. 582.
- Automobile-tops, Dressing for. Pantasote Leather Company. No. 140,924; Mar. 29; v. 284; p. 947.
- Automobile tops, radiator-covers, curtains, and cushions. Falls City Buggy Top Company. No. 147,670; Dec. 20.
- Automobile-whistles, &c. Interstate Tool and Mfg. Co. No. 141,576; Apr. 26; v. 285; p. 780.
- Automobile-windows. L. C. Myers. No. 146,654; Sept. 13; v. 290; p. 428.
- Automobiles. Auburn Automobile Company. Nos. 140,695-6; Mar. 22; v. 284; p. 749.
- Automobiles. J. I. Case Threshing Machine Company. No. 139,068; Jan. 18; v. 282; p. 558.
- Automobiles. Chalmers Motor Corporation. No. 140,770; Mar. 29; v. 284; p. 942.
- Automobiles. Champion Motors Corporation. No. 144,716; July 19; v. 288; p. 616.
- Automobiles. Davis Car Company. No. 142,253; May 10; v. 286; p. 403.
- Automobiles. Dorris Motor Car Company. No. 148,327; Nov. 8.
- Automobiles. Du Pont Motors. No. 140,370; Mar. 15; v. 284; p. 581.
- Automobiles. Gramm Bernstein Motor Truck Co. No. 141,129; Apr. 12; v. 285; p. 381.
- Automobiles. Holmes Automobile Company. No. 143,807; June 7; v. 287; p. 191.
- Automobiles. Holmes Automobile Company. No. 148,667; Nov. 22.
- Automobiles. A. J. Jackson. No. 143,373; May 31; v. 286; p. 1050.
- Automobiles. La Fayette Motors Company. No. 142,375; May 10; v. 286; p. 409.
- Automobiles. Maibohm Motors Company. No. 142,298; May 10; v. 286; p. 405.
- Automobiles. Maxwell Motor Company. No. 141,607; Apr. 26; v. 285; p. 781.
- Automobiles. Moine M'low Company. No. 140,897; Mar. 29; v. 284; p. 946.
- Automobiles. Packard Motor Car Company. No. 147,803; Nov. 1.
- Automobiles. S. C. Pandolfo. No. 143,420; May 31; v. 286; p. 1051.
- Automobiles. Remington Motors Inc. No. 147,675; Oct. 25.
- Automobiles. Societe des Moteurs Gnome et Rhone. No. 144,477; July 5; v. 288; p. 195.
- Automobiles. Stevens-Duryea. No. 139,101; Jan. 18; v. 282; p. 561.
- Automobiles. Stevens-Duryea, Inc. No. 145,463; Aug. 2; v. 289; p. 182.
- Automobiles. J. R. Sutterly, Jr. No. 142,787; May 17; v. 286; p. 634.
- Automobiles. C. H. Willis & Company. No. 149,748; Dec. 20.
- Automobiles. Yellow Cab Manufacturing Co. No. 146,411; Sept. 6; v. 290; p. 204.
- Automobiles accessories, Certain electric. Superior Lamp Mfg. Co. No. 147,522; Oct. 18.
- Automobiles and automobile-trucks. Belmont Motors Corporation. No. 142,357; May 10; v. 286; p. 407.
- Automobiles and certain named parts thereof. Societe Anonyme des Anciens Etablissements Hotchkiss & Cie. No. 138,866; Jan. 11; v. 282; p. 378.
- Automobiles and certain parts thereof, Pressed-steel frames for. Parish & Bingham Corporation. No. 145,772; Aug. 16; v. 289; p. 596.
- Automobiles and chassis for automobiles, bicycles, and aeroplanes. Minerva Motors. No. 149,703; Dec. 20.
- Automobiles and furniture, Transparent luster and finish for. Nu-Lac Company. No. 147,440; Oct. 11.
- Automobiles and lorries. Societe Lyonnaise d'Industrie Mecanique. No. 149,239; Dec. 6.
- Automobiles and motor-trucks. Comet Automobile Company. No. 140,100; Mar. 8; v. 284; p. 364.
- Automobiles and motor-trucks. Goodyear Tire & Rubber Co. No. 143,353; May 31; v. 286; p. 1049.
- Automobiles and motor-trucks. Gregory-Craun Motor Co. No. 144,405; July 5; v. 288; p. 193.
- Automobiles and motor-trucks. Selden Truck Corporation. No. 144,469; July 5; v. 288; p. 195.
- Automobiles and motor-trucks. Standard Steel Car Company. No. 141,057; Apr. 5; v. 285; p. 187.
- Automobiles, automobile-bodies, motor-trucks. Vogue Motor Car Company. No. 139,045; Jan. 18; v. 282; p. 556.
- Automobiles, automobile radiators, reservoirs, and hoods. J. B. D. L. Chardard. No. 143,930; June 21; v. 287; p. 578.
- Automobiles, automobile trucks, trailers, whether of two or more wheels. The Willys-Overland Company. No. 139,433; Feb. 1; v. 283; p. 173.
- Automobiles, Auxiliary power-transmitting shafts for. C. H. Foltmer. No. 141,938; May 3; v. 286; p. 184.
- Automobiles, Electrically-operated direction-indicating signals for use on. J. T. Lindstrom. No. 139,722; Feb. 15; v. 283; p. 541.
- Automobiles, Front-wheel spindles for Ford. Motor Spindle Corporation. No. 141,619; Apr. 26; v. 285; p. 781.
- Automobiles, furniture, and varnished surfaces, Polish and preservative for. Acron Polish Company. No. 142,403; May 17; v. 286; p. 623.
- Automobiles, motor-boats, aeroplanes, motorcycles. Guy Motors Ltd. No. 149,089; Dec. 6.



*Alphabetical list of trade-marks—Continued.*

- Automobiles, motor-trucks, &c. Gramm-Bernstein Motor Truck Company. No. 149,392; Dec. 13.
- Automobiles, motor-trucks, chassis, &c. Gramm-Bernstein Motor Truck Company. No. 139,803; Feb. 22; v. 283; p. 752.
- Automobiles, Motor-trucks, motor lorries and cars. Samson Tractor Company. No. 143,458; May 31; v. 286; p. 1052.
- Automobiles, motor-trucks, trailers. Studebaker Corporation. No. 141,690; Apr. 26; v. 285; p. 783.
- Automobiles, motorcycles, and bicycles. Seven Eleven Auto Company. No. 140,682; Mar. 22; v. 284; p. 747.
- Automobiles or any varnished surface. Cleanser and polish for. Queen City-Specialty Co. No. 142,320; May 10; v. 286; p. 405.
- Automobiles, Pleasure-. S. Paris. No. 145,171; July 26; v. 288; p. 815.
- Automobiles, Spark-timers for. Pep Timer Company. No. 139,726; Feb. 15; v. 283; p. 541.
- Automobiles, &c., Starting fluid for. A. A. Koch. No. 141,587; Apr. 26; v. 285; p. 780.
- Automobiles, Sun and rain shields for. E. Palmuth. No. 147,804; Nov. 1.
- Automobiles, Sun and rain shields for. Rain-Sun Vision Shield Co. No. 146,497; Sept. 6; v. 290; p. 214.
- Automotive and other purposes, Gears for transmitting power for. Timken-Detroit Axle Company. No. 147,705; Oct. 25.
- Automotive tools and equipment. Dearborn Equipment Co. No. 145,346; Aug. 2; v. 289; p. 178.
- Automotive vehicles and parts thereof, Frames for. Pierce-Arrow Motor Car Company. No. 147,668; Oct. 25.
- Awning-stripes in the piece. Marshall Field & Company. No. 144,844; July 19; v. 288; p. 620.
- Axes, hatchets, &c. Kelly Axe Manufacturing Co. No. 140,855; Mar. 29; v. 284; p. 945.
- Axle-stands, babbittin outfits, burning-in machines, &c. Danielson Tool Company. No. 141,530; Apr. 26; v. 285; p. 779.
- Axles and axle parts of power-driven vehicles. Kirkwen Multipower Axle Co. No. 144,593; July 12; v. 288; p. 424.
- Axles and springs, Vehicle. Sheldon Axle and Spring Company. No. 140,056; Mar. 1; v. 284; p. 178.
- Axles for motor-vehicles. Timken-Detroit Axle Company. No. 146,052; Aug. 23; v. 289; p. 794.
- Axles for pleasure-automobiles and automobile-trucks. Vulcan Motor Axle Company. No. 150,155; Dec. 27.
- Axles, Vehicle-. Baker R & L Company. No. 144,513; July 5; v. 288; p. 198.
- Babbitt-lined bearings. American Bearing & Die Casting Corporation. No. 149,337; Dec. 13.
- Babbitt metal. Syracuse Smelting Works. No. 139,643; Feb. 8; v. 283; p. 354.
- Baby-pants. I. B. Kleinert Rubber Company. No. 140,860; Mar. 29; v. 284; p. 945.
- Baby-pants. Morris, Mann & Reilly. Nos. 149,175-6; Dec. 6.
- Baby-pants and aprons. J. Stein. No. 148,743; Nov. 22.
- Baby-pants, Waterproof. Rubberized Sheeting & Specialty Co. No. 149,220; Dec. 6.
- Bacillus Bulgaricus culture. F. A. Geck. No. 139,679; Feb. 8; v. 283; p. 356.
- Bacon. John Morrell & Company. No. 150,016; Dec. 27.
- Bacon, hams, lard, &c. Theurer-Norton Provision Co. No. 140,994; Mar. 29; v. 284; p. 945.
- Bacon, sausages, and pickled pigs' feet in jars. Jacob E. Decker & Sons. No. 141,920; May 3; v. 286; p. 184.
- Bacon squares, Jowl-. Jacob E. Decker & Sons. No. 141,919; May 3; v. 286; p. 184.
- Bacteria, Inoculating-. Eggert Chemical Company. No. 142,260; May 10; v. 286; p. 404.
- Bacteria, Soil-. C. F. Pennewell. No. 147,667; Oct. 25.
- Bacteriological starting culture. Vitalait Laboratory. No. 149,279; Dec. 6.
- Baggage-racks. Adams & Westlake Company. No. 142,405; May 17; v. 286; p. 623.
- Bagging. American Manufacturing Company. Nos. 141,026-7; Mar. 29; v. 284; p. 951.
- Bagging, Jute. American Manufacturing Company. No. 143,234; May 24; v. 286; p. 855.
- Bagging, Jute. American Manufacturing Company. Nos. 143,887-8; June 21; v. 287; p. 577.
- Bagging manufactured from jute fiber. American Manufacturing Company. No. 145,242; July 26; v. 288; p. 819.
- Bags and portfolio-like envelops, Traveling-. United States Rubber Company. No. 142,808; May 17; v. 286; p. 635.
- Bags, Beaded. H. Wolff & Co. No. 147,832; Nov. 1.
- Bags, Burlap, jute, and cotton. H. Chesler. No. 146,711; Sept. 20; v. 290; p. 632.
- Bags, Cloth. Marshall Field & Company. No. 147,439; Oct. 11.
- Bags, Fancy silk or cloth. Navy League of the United States. No. 144,907; July 19; v. 288; p. 622.
- Bags for carrying coal, Canvas. Jenckes Spinning Company. No. 142,588; May 17; v. 286; p. 628.
- Bags, Laundry-. Jenckes Spinning Company. No. 141,982; May 3; v. 286; p. 186.
- Bags, Machines to close filled. Economy Bag Closing Co. No. 140,590; Mar. 22; v. 284; p. 744.
- Bags made of leather, fiber, &c. Knickerbocker Case Company. No. 149,787; Dec. 20.
- Bags, Water-. Schaefer Tent & Awning Company. No. 145,806; Aug. 16; v. 289; p. 597.
- Bait, Artificial. S. Allcock & Co. No. 147,896; Nov. 8.
- Baker's machinery. Read Machinery Co. No. 150,070; Dec. 27.
- Bakers' products—viz., bread. E. B. Nicolait. No. 146,120; Aug. 30; v. 289; p. 1015.
- Bakery machinery. Peerless Bread Machine Company. No. 141,795; Apr. 26; v. 285; p. 792.
- Bakery machinery. Thomson Machine Company. No. 138,924; Jan. 11; v. 282; p. 382.
- Bakery products. The L. Bromm Baking Co. No. 139,256; Feb. 1; v. 283; p. 167.
- Bakery products. Massachusetts Baking Company. No. 141,167; Apr. 12; v. 285; p. 382.
- Bakery products. S. A. Reynolds. No. 143,729; June 7; v. 287; p. 187.
- Baking plants. Bake-Rite Oven Mfg. Company. No. 145,037; July 26; v. 288; p. 811.
- Baking-powder. Batterton Coffee Co. No. 146,173; Sept. 6; v. 290; p. 197.
- Baking powder. Commercial Importing Company. No. 138,597; Jan. 4; v. 282; p. 186.
- Baking-powder. Heekin Spice Company. No. 140,825; Mar. 29; v. 284; p. 944.
- Baking-powder. Hegewisch Chemical Works. No. 140,139; Mar. 8; v. 284; p. 365.
- Baking-powder. B. Heller and Company. No. 147,220; Oct. 4.
- Baking-powder. Johnson-Appleby Company. No. 149,125; Dec. 6.
- Baking-powder. O. H. Olfene. Nos. 140,186-8; Mar. 8; v. 284; p. 366.
- Baking-powder. Royal Baking Powder Company. No. 148,736; Nov. 22.
- Baking-powder and coloring for food. Odelsa Mfg. Co. No. 140,185; Mar. 8; v. 284; p. 366.
- Baking-powder, cream of tartar, &c. H. A. Johnson Co. No. 147,861; Nov. 1.
- Ball-bearings. U. S. Ball Bearing Manufacturing Company. No. 147,525; Oct. 18.
- Ball-cocks, Toilet tank and trough. Rex Supply Company. No. 149,490; Dec. 13.
- Ball, Game-. L. J. Rober. Nos. 150,078-9; Dec. 27.
- Balls, Golf-. Cupples Company Manufacturers. No. 139,515; Feb. 8; v. 283; p. 350.
- Balls, Golf-. The Fair. No. 142,517; May 17; v. 286; p. 626.
- Balls, Golf-. A. J. Reach Company. No. 148,936; Nov. 29.
- Balls, Golf-. United States Rubber Company. No. 145,294; July 26; v. 288; p. 825.
- Balls, Golf-. United States Rubber Company. No. 146,012; Aug. 23; v. 289; p. 789.
- Balls, Golf-. Worthington Ball Company. No. 145,492; Aug. 2; v. 289; p. 182.
- Bands for wrapping cake and pie. E. Stendel. No. 143,872; June 14; v. 287; p. 402.
- Bank deposit-books. G. P. Garin. No. 148,837; Nov. 29.
- Bark from which tanning substances are made. Harold M. McArthur & Co. No. 143,994; June 21; v. 287; p. 580.
- Bark from which tanning substances are made. Harold M. McArthur & Co. Limited. No. 146,803; Sept. 20; v. 290; p. 635.
- Barley-malt extract. G. Loewus & Co. No. 147,008; Sept. 27; v. 290; p. 805.
- Barley-malt extract. Wander Company. No. 147,184; Oct. 4.
- Barrels, dust-arresters, &c., Tumbling-. Whiting Foundry Equipment Co. No. 139,229; Jan. 25; v. 282; p. 736.
- Barrettes. Penn Rivet Corporation. No. 143,426; May 31; v. 286; p. 1051.
- Barrettes, Hair-locking attachments for. R. W. Thayer. No. 142,901; May 17; v. 286; p. 642.
- Barytes, (sulfate of barium,) &c. Nulsen Corporation, Manufacturers. No. 141,628; Apr. 26; v. 285; p. 782.
- Baseball-bats. Hilton Collins Co. No. 144,227; June 28; v. 287; p. 775.
- Baseballs. San Antonio Drug Co. No. 150,097; Dec. 27.
- Baskets. Wabash Basket Co. No. 142,345; May 10; v. 286; p. 406.
- Baskets. Wabash Basket Company. No. 150,157; Dec. 27.
- Baskets on wheels, Market-. M. B. Capen. No. 144,712; July 19; v. 288; p. 616.
- Bath powder or salt. Royal Pharmaceutical & Perfumery Co. No. 142,116; May 3; v. 286; p. 190.
- Bath-robos and bathing-suits. Pelton & Pelton. No. 142,085; May 3; v. 286; p. 189.
- Bath-robos, Infants'. Federal Underwear Co. No. 141,354; Apr. 19; v. 285; p. 566.
- Bath-room fittings. Bre Manufacturing Company. No. 144,354; July 5; v. 288; p. 191.
- Bath-room fittings. Bre Manufacturing Company. No. 146,183; Sept. 6; v. 290; p. 198.
- Bath-salts. H. W. Smith. No. 144,280; June 28; v. 287; p. 776.
- Bathing-rompers. Neuman & Rubin. No. 149,183; Dec. 6.
- Bathroom fixtures and accessories. G. C. Squier. No. 143,480; May 31; v. 286; p. 1053.
- Bathroom-fixtures of enameled ware. Whyt E naml Specialty Co. Nos. 145,204-5; July 26; v. 288; p. 816.



- Bathtubs, lavatories, sinks, Enameled and metallic. Richmond Radiator Company. No. 142,729; May 17; v. 286; p. 632.
- Batiste, Cotton. Sears, Roebuck and Co. No. 144,052; June 21; v. 287; p. 582.
- Batiste in the piece. Sears, Roebuck and Co. No. 145,219; July 26; v. 288; p. 817.
- Bats, Baseball. Hillerich & Bradsby Co. No. 146,767; Sept. 20; v. 290; p. 634.
- Bats, Baseball-. Hilton Collins Co. No. 149,944; Dec. 27.
- Batteries, and certain parts thereof. General Lead Batteries Company. No. 147,773; Nov. 1.
- Batteries and connectors thereof, Secondary. Westinghouse Union Battery Co. No. 142,348; May 10; v. 286; p. 406.
- Batteries and connectors thereof, Secondary. Westinghouse Union Battery Co. No. 149,625; Dec. 13.
- Batteries and flash-light batteries, Dry-cell. French Battery & Carbon Co. Nos. 140,596-7; Mar. 22; v. 284; p. 744.
- Batteries and flashlight cases, Dry-. French Battery & Carbon Co. No. 139,074; Jan. 18; v. 282; p. 558.
- Batteries and parts, electric switches, bulbs, &c., Storage. Appel Battery Service Company. No. 144,339; July 5; v. 288; p. 191.
- Batteries and parts thereof, Electric. W. T. Johnston. No. 148,098; Nov. 8.
- Batteries and parts thereof, Storage. Willard Storage Battery Company. No. 144,497; July 5; v. 288; p. 196.
- Batteries, Dry. Carbon Products Company. No. 141,510; Apr. 26; v. 285; p. 778.
- Batteries, Dry. Carbon Products Co. No. 142,247; May 10; v. 286; p. 403.
- Batteries, Dry. National Carbon Company. No. 138,678; Jan. 4; v. 282; p. 188.
- Batteries, Dry. National Carbon Company. No. 140,715; Mar. 22; v. 284; p. 751.
- Batteries, Dry. National Carbon Company. No. 146,306; Sept. 6; v. 290; p. 201.
- Batteries, Dry-cell. French Battery & Carbon Co. No. 149,925; Dec. 27.
- Batteries, &c., Dry-cell and flashlight. French Battery & Carbon Co. No. 139,589; Feb. 8; v. 283; p. 531.
- Batteries, Electric. Cincinnati Storage Battery Company. No. 146,444; Sept. 6; v. 290; p. 209.
- Batteries, Electric. Federal Storage Battery Co. No. 143,242; May 24; v. 286; p. 856.
- Batteries, Electric. Stuart Products Corporation. No. 146,888; Sept. 20; v. 290; p. 638.
- Batteries, flashlights, &c., Electric. National Carbon Company. No. 141,183; Apr. 12; v. 285; p. 382.
- Batteries, Indicators for indicating the internal condition of storage and other. Henry-Cooper Manufacturing Company. No. 138,822; Jan. 11; v. 282; p. 376.
- Batteries, Indicators for showing state of charge of storage. Cellokay Manufacturing Company. No. 144,715; July 19; v. 288; p. 616.
- Batteries, Storage. B. Dubinski. No. 146,455; Sept. 6; v. 290; p. 210.
- Batteries, Storage. Endurance Battery Corporation. No. 139,713; Feb. 15; v. 283; p. 541.
- Batteries, Storage. L. Glosstein. No. 146,574; Sept. 13; v. 290; p. 421.
- Batteries, Storage. Hobbs Laboratories. No. 144,416; July 5; v. 288; p. 193.
- Batteries, Storage. W. Law. No. 139,156; Jan. 25; v. 282; p. 734.
- Batteries, Storage. M. Marks. No. 144,606; July 12; v. 288; p. 425.
- Batteries, Storage. Paul M. Marko & Co. No. 146,535; Sept. 6; v. 290; p. 219.
- Batteries, Storage. Wolke Lead Batteries Co. No. 139,732; Feb. 15; v. 283; p. 541.
- Batteries, Storage. Wuest & Schrader. No. 144,652; July 12; v. 288; p. 426.
- Batteries, Storage, lighting, and starting. Electrolyte Storage Battery Co. No. 141,288; Apr. 12; v. 285; p. 387.
- Battery-boxes, switchboards, generators. Volta Battery Company. No. 148,298; Nov. 8.
- Battery-jars made of hard or semihard rubber. B. F. Goodrich Company. No. 144,575; July 12; v. 288; p. 424.
- Battery-separators. Indianapolis Separator Company. Nos. 148,087-8; Nov. 8.
- Battery testers, Electric. Forest Electric Co. No. 147,601; Oct. 25.
- Battery turntables, plate presses, steamers, &c. American Bureau of Engineering. No. 145,025; July 26; v. 288; p. 811.
- Batting, Wool-. Sears, Roebuck and Co. No. 143,463; May 31; v. 286; p. 1053.
- Beads and bead necklaces. M. C. Smith. No. 142,225; May 3; v. 286; p. 192.
- Beams, studding, and joists of metal. Northwestern Expanded Metal Company. No. 141,625; Apr. 26; v. 285; p. 782.
- Beans, Baked. Edwards Food Products Company. No. 141,350; Apr. 19; v. 285; p. 566.
- Bearing-fitting compound, Abrasive. United States Products Company. No. 141,258; Apr. 12; v. 285; p. 385.
- Bearing materials. Cellugraph Engineering Corporation. No. 140,768; Mar. 29; v. 284; p. 942.
- Bearing-metal. Cosmic Metal Company. No. 140,033; Mar. 1; v. 284; p. 176.
- Bearing, Metal. More-Jones Brass & Metal Company. No. 145,160; July 26; v. 288; p. 815.
- Bearing metals. A. C. Ryan. No. 148,528; Nov. 15.
- Bearings. W. L. Sandage. No. 150,098; Dec. 27.
- Bearings and parts thereof, Antifriction-. Wright Roller Bearing Company. Nos. 139,232-3; Jan. 25; v. 282; p. 737.
- Bearings and parts thereof, Roller-. Timken Roller Bearing Company. No. 144,149; June 21; v. 287; p. 590.
- Bearings and pumps and air-compressors, grease-guns, &c. Overseas Motor Service Corporation. No. 145,769; Aug. 16; v. 289; p. 596.
- Bearings and shaft-hangers. Hess-Bright Manufacturing Company. No. 139,079; Jan. 18; v. 282; p. 559.
- Bearings, Ball and roller. Pruyn Company of America. No. 139,952; Feb. 22; v. 283; p. 760.
- Bearings, Roller-. Bock Bearing Company. No. 144,100; June 21; v. 287; p. 585.
- Bearings, Roller-. Roversford Foundry & Machine Co. No. 145,289; July 26; v. 288; p. 825.
- Bearings, Steel balls for. Bryce Manufacturing Company. No. 145,254; July 26; v. 288; p. 821.
- Bearings, Steel balls for antifriction-. J. J. McIntyre. No. 138,999; Jan. 18; v. 282; p. 555.
- Bed and pillows, Feather. Lewis Feather Bed & Pillow Co. No. 140,421; Mar. 15; v. 284; p. 582.
- Beds and cribs. Greenpoint Metallic Bed Company. No. 147,323; Oct. 11.
- Beds, Concealed. Murphy Wall Bed Company. No. 139,174; Jan. 25; v. 282; p. 735.
- Beds, couches, springs, &c. Englander Spring Bed Co. No. 146,459; Sept. 6; v. 290; p. 210.
- Beds, cribs, bed-springs, mattresses. Barcalo Manufacturing Company. No. 146,429; Sept. 6; v. 290; p. 207.
- Bedsprads. Marshall Field & Company. No. 144,131; June 21; v. 287; p. 583.
- Bedsprads. Marshall Field & Company. No. 145,146; July 26; v. 288; p. 814.
- Bedsprads. Marshall Field & Company. No. 145,414; Aug. 2; v. 289; p. 180.
- Bedsprads. Marshall Field & Company. Nos. 145,663-4; Aug. 16; v. 289; p. 593.
- Bedsprads. Marshall Field & Company. Nos. 146,814-5; Sept. 20; v. 290; p. 635.
- Bedsprads. Marshall Field & Company. No. 147,127; Oct. 4.
- Bedsprads. Marshall Field & Company. No. 147,729; Oct. 25.
- Bedsprads. Marshall Field & Company. No. 149,448; Dec. 13.
- Bedsprads. Stevens Manufacturing Co. No. 145,583; Aug. 9; v. 289; p. 488.
- Bedsprads, blankets, &c., and textile piece goods. Textile Manufacturers Alliance. No. 144,068; June 21; v. 287; p. 583.
- Bed-springs. Henry Schomer Company. No. 150,102; Dec. 27.
- Bed-springs, mattresses, and pillows. Charles P. Rogers & Co. No. 150,083; Dec. 27.
- Bed-springs or spring-mattresses for beds. Western Wire Products Co. No. 148,625; Nov. 15.
- Bedsteads, mattresses, &c. Pittsburgh Iron Folding Bed Co. No. 144,449; July 5; v. 288; p. 194.
- Bed-ticking. Blue Buckle Cotton Mills. Nos. 139,762-6; Feb. 22; v. 283; p. 757.
- Bed-ticking. Blue Buckle Cotton Mills. No. 141,329; Apr. 19; v. 285; p. 565.
- Beehives and certain named parts thereof. G. B. Lewis Company. No. 144,528; July 5; v. 288; p. 199.
- Beer. Victor Brewing Company. No. 145,474; Aug. 2; v. 289; p. 182.
- Beer and malt tonic, Near. Primalt Products Company. No. 148,216; Nov. 8.
- Beer and other cereal malt beverages. Gottlieb Bauernschmidt Straus Brewing Company. No. 139,802; Feb. 22; v. 283; p. 752.
- Beer and other cereal malt beverages known and sold as near beer. Gottlieb Bauernschmidt-Straus Brewing Company. Nos. 140,814-16; Mar. 29; v. 284; pp. 943-4.
- Beer, Lager-. Adam Scheidt Brewing Company. No. 142,749; May 17; v. 286; p. 633.
- Beer, Near. White Eagle Brewing Company. No. 148,312; Nov. 8.
- Beer, near beer, malt tonic, &c. Val Blatz Brewing Company. No. 146,388; Sept. 6; v. 290; p. 204.
- Beer, Root-. Golden Grain Juice Co. No. 144,779; July 19; v. 288; p. 618.
- Beer, Root-. Southern Beverage Company. No. 148,715; Nov. 22.
- Beers, near beers, porter, &c. Bartels Brewing Company. Nos. 141,860-3; May 3; v. 286; p. 182.
- Beeswax substitute. Cantol Wax Company. No. 147,949; Nov. 8.
- Bellows and shovels, Molders'. Osborn Manufacturing Company. No. 149,195; Dec. 6.
- Belt-dressing. Dr. Clark's Chemical Laboratories. No. 139,274; Feb. 1; v. 283; p. 168.
- Belt-dressing compositions. L. M. Fisher. No. 148,024; Nov. 8.



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- Belt-fasteners, Hinged. Flexible Steel Lacing Company. No. 141,744; Apr. 26; v. 285; p. 787.
- Belt-hooks. National Ring Traveler Co. No. 141,622; Apr. 26; v. 285; p. 781.
- Belts. Endless Belt Corporation. No. 144,386; July 5; v. 288; p. 192.
- Belts. The B. F. Goodrich Company. No. 138,627; Jan. 4; v. 282; p. 187.
- Belts. The B. F. Goodrich Company. No. 139,309; Feb. 1; v. 283; p. 169.
- Belts. B. F. Goodrich Company. No. 140,812; Mar. 29; v. 284; p. 943.
- Belts. Modern Belt Co. No. 139,947; Feb. 22; v. 283; p. 760.
- Belts. Perkins-Campbell Company. No. 139,949; Feb. 22; v. 283; p. 760.
- Belts. United & Globe Rubber Company. No. 141,452; Apr. 19; v. 285; p. 569.
- Belts and belting made of rubber combined with fabric. B. F. Goodrich Company. No. 145,505; Aug. 2; v. 289; p. 184.
- Belts and buckles not of precious metal for personal wear. Hickok Manufacturing Company. No. 143,978; June 21; v. 287; p. 580.
- Belts, disks, packings, etc., Leather link. Mitchell and Smith. No. 147,643; Oct. 25.
- Belts, Elevator. B. F. Goodrich Company. No. 140,811; Mar. 29; v. 284; p. 943.
- Belts, Endless. Endless Belt Corporation. No. 144,385; July 5; v. 288; p. 192.
- Belts, Fabric. Endless Belt Corporation. No. 145,352; Aug. 2; v. 289; p. 178.
- Belts for personal wear. Miller Rubber Company. No. 147,642; Oct. 25.
- Belts for personal wear, Leather. Leatherwear Company of America. No. 143,252; May 24; v. 286; p. 857.
- Belts for supporting garments. M. I. Fox. No. 139,073; Jan. 18; v. 282; p. 558.
- Belts for supporting outer garments. Marathon Tire & Rubber Company. No. 141,601; Apr. 26; v. 285; p. 781.
- Belts for supporting wearing-apparel, Leather. Miller & Gleason. No. 144,201; June 28; v. 287; p. 774.
- Belts for wearing-apparel, &c. Wolfson Company. No. 144,154; June 21; v. 287; p. 591.
- Belts, hose-supporters, suspenders, Men's. Herman Neckwear Manufacturing Company. No. 139,549; Feb. 8; v. 283; p. 351.
- Belts, Leather. F. Gilardini. No. 138,626; Jan. 4; v. 282; p. 187.
- Belts made of fabric combined with rubber, Conveyer. The B. F. Goodrich Company. No. 147,774; Nov. 1.
- Belts of ornamental design, Ladies'. F. C. Gerbasi. No. 138,624; Jan. 4; v. 282; p. 187.
- Belts, Sanitary. I. B. Kleintert Rubber Company. No. 140,617; Mar. 22; v. 284; p. 745.
- Belts, Transmission. Arthur S. Brown Mfg. Co. No. 146,026; Aug. 23; v. 289; p. 791.
- Belts, Trousers-supporting. Faust Mfg. Company. No. 142,263; May 10; v. 286; p. 404.
- Belting. The Farm Equipment Co. No. 138,812; Jan. 11; v. 282; p. 376.
- Belting. B. F. Goodrich Company. No. 149,389; Dec. 13.
- Belting. Gutta Percha & Rubber Manufacturing Company. No. 140,191; Mar. 8; v. 284; p. 366.
- Belting. "Scandinavia" Belting Ltd. No. 141,214; Apr. 12; v. 285; p. 383.
- Belting. Vacuum Belting Company. No. 144,961; July 19; v. 288; p. 623.
- Belting and belt-lacing. Canvas. Fabric Belt & Lace Co. No. 138,810; Jan. 11; v. 282; p. 376.
- Belting and hose made of fabric and rubber and machinery packing. B. F. Goodrich Company. No. 143,352; May 31; v. 286; p. 1049.
- Belting and machinery packing. Klatscher & Lorenz, Inc. No. 141,996; May 3; v. 286; p. 186.
- Belting and transmission-lining sets, Fabric. Liberty Belting Mills. No. 140,871; Mar. 29; v. 284; p. 945.
- Belting, Canvas. Chesapeake Belting Company. No. 146,710; Sept. 20; v. 290; p. 632.
- Belting, Cotton. Victor Balata & Textile Belting Co. No. 140,322; Mar. 15; v. 284; p. 579.
- Belting, Dress. A. Larseman. No. 148,884; Nov. 29.
- Belting, Dress. Russell Manufacturing Co. No. 150,090; Dec. 27.
- Belting, elastic webbing, and suspenders, Ladies' dress. Russell Manufacturing Company. No. 143,449; May 31; v. 286; p. 1052.
- Belting, Fabric. Republic Belting Company. No. 147,676; Oct. 25.
- Belting, Flat leather. J. E. Rhoads & Sons. No. 142,727; May 17; v. 286; p. 632.
- Belting, Flat leather. J. E. Rhoads & Sons. No. 145,006; July 19; v. 288; p. 628.
- Belting for power transmission. R. Hockaday. No. 140,274; Mar. 8; v. 284; p. 371.
- Belting, hose and machinery packings. Imperial Belting Company. No. 139,823; Feb. 22; v. 283; p. 753.
- Belting, hose, and packing. Imperial Belting Company. No. 141,145; Apr. 12; v. 285; p. 381.
- Belting, hose, machinery packing, tires. Gates Rubber Company. No. 140,128; Mar. 8; v. 284; p. 365.
- Belting, hose, packing, tires. Delaware Electric & Supply Co. No. 140,363; Mar. 15; v. 284; p. 580.
- Belting, Leather and rubber. Republic Belting Company. No. 146,339; Sept. 6; v. 290; p. 202.
- Belting, Leather. Chicago Belting Company. No. 140,772; Mar. 29; v. 284; p. 942.
- Belting, Leather. Chicago Belting Company. Nos. 141,891-4; May 3; v. 286; p. 183.
- Belting, Leather. Chicago Belting Company. No. 145,627; Aug. 16; v. 289; p. 592.
- Belting, Leather. Consolidated Belting Company. No. 138,798; Jan. 11; v. 282; p. 376.
- Belting, Leather. J. J. Freadrich. No. 138,622; Jan. 4; v. 282; p. 187.
- Belting, Leather. J. J. Freadrich. No. 141,746; Apr. 26; v. 285; p. 787.
- Belting, Leather. Grant Leather Corporation. No. 143,356; May 31; v. 286; p. 1049.
- Belting, Leather. Hide Leather & Belting Co. No. 139,144; Jan. 25; v. 282; p. 734.
- Belting, Leather. Hide Leather & Belting Company. No. 140,273; Mar. 8; v. 284; p. 371.
- Belting, Leather. Hide Leather & Belting Co. No. 148,857; Nov. 29.
- Belting, Leather. E. F. Houghton & Co. No. 138,640; Jan. 4; v. 282; p. 187.
- Belting, Leather. E. F. Houghton & Co. No. 140,835; Mar. 29; v. 284; p. 944.
- Belting, Leather. Kistler Leather Company. No. 148,112; Nov. 8.
- Belting, Leather. W. S. Nott Company. No. 141,627; Apr. 26; v. 285; p. 782.
- Belting, Leather. Page Belting Company. No. 139,741; Feb. 15; v. 283; p. 544.
- Belting, Leather. Page Belting Company. No. 139,948; Feb. 22; v. 283; p. 760.
- Belting, Leather. Page Belting Company. Nos. 142,687-90; May 17; v. 286; p. 631.
- Belting, Leather. Page Belting Company. No. 142,692; May 17; v. 286; p. 631.
- Belting, Leather. Page Belting Company. No. 142,694; May 17; v. 286; p. 631.
- Belting, Leather. J. E. Rhoads & Sons. No. 141,802; Apr. 26; v. 285; p. 792.
- Belting, Leather. J. E. Rhoads & Sons. No. 145,187; July 26; v. 288; p. 816.
- Belting, Leather. United Belt Manufacturing Company. No. 148,953; Nov. 29.
- Belting, Leather. I. B. Williams and Sons. No. 145,868; Aug. 16; v. 289; p. 599.
- Belting, Leather. The Wirthlin-Maan Co. No. 139,437; Feb. 1; v. 283; p. 173.
- Belting, Leather, rubber, and composition. Wayne Belting and Supply Co. No. 141,012; Mar. 29; v. 284; p. 950.
- Belting, Machinery. Maine Belting Company. No. 142,602; May 17; v. 286; p. 629.
- Belting made from canvas, treated canvas, or leather. Lamborn & Co. No. 148,882; Nov. 29.
- Belting of rubber and fabric. Gutta Percha & Rubber Manufacturing Company. No. 138,906; Jan. 11; v. 282; p. 381.
- Belting, Skirt. Penn Rivet Corporation. No. 143,425; May 31; v. 286; p. 1051.
- Belting, Stitched canvas. W. D. Allen Manufacturing Company. No. 141,070; Apr. 12; v. 285; p. 379.
- Belting, Textile. Victor Balata & Textile Belting Co. No. 148,991; Dec. 6.
- Belting, Textile machinery. Buckner Process Company. No. 140,089; Mar. 8; v. 284; p. 363.
- Beltings. Rossendale-Reddaway Belting and Hose Co. No. 140,200; Apr. 8; v. 284; p. 367.
- Beltings and belt-lacing. Laurence Belting Company. Nos. 138,989-90; Jan. 18; v. 282; p. 554.
- Beltings, brake-linings, antisqueak-webs, &c. Russell Manufacturing Company. No. 143,454; May 31; v. 286; p. 1052.
- Beltings, packings, hose, &c. C. O. Alexander. No. 140,311; Mar. 15; v. 284; p. 579.
- Bench grinding-machines. Duwell Manufacturing Company. No. 145,554; Aug. 9; v. 289; p. 407.
- Benzol, toluol, &c. Peoples Gas By-Products Corporation. No. 142,087; May 3; v. 286; p. 189.
- Beverage. Chippewa Springs Corporation. No. 144,722; July 19; v. 288; p. 616.
- Beverage. Hedge's Orange Ale Co. No. 146,479; Sept. 6; v. 290; p. 212.
- Beverage. A. Kickbusch Grocery Co. No. 139,827; Feb. 22; v. 283; p. 753.
- Beverage. Kiewel Brewing Company. No. 141,993; May 3; v. 286; p. 186.
- Beverage, Alcoholic. A. Freixas. No. 146,744; Sept. 20; v. 290; p. 633.
- Beverage and flavoring for same, Non-alcoholic maltless. Eng-Skell Company Inc. No. 148,576; Nov. 15.
- Beverage and syrup for making non-alcoholic, maltless. Central Consumers Company. No. 146,635; Sept. 13; v. 290; p. 426.
- Beverage and syrup for making same. B. F. Barbour. No. 149,303; Dec. 6.



- Beverage and syrup for making same, Non-alcoholic. General Fruit & Syrup Co. No. 140,389; Mar. 15; v. 284; p. 581.
- Beverage and syrup for making same, Non-alcoholic. Gray-Juergens Co. No. 146,754; Sept. 20; v. 290; p. 634.
- Beverage and syrup for making same, Non-alcoholic, maltless. Frank O. Goldsmith. No. 148,652; Nov. 22.
- Beverage and syrup for making same, Non-alcoholic maltless. Hurty-Peck & Company. No. 147,491; Oct. 18.
- Beverage and syrup for making same, Non-alcoholic maltless. John Mulhern Company. No. 147,501; Oct. 18.
- Beverage and syrup for making same, Non-alcoholic maltless. Kansas City Kola Company. No. 147,493; Oct. 18.
- Beverage and syrup for making same, Non-alcoholic, maltless, artificial grape. P. E. Barnett. No. 149,835; Dec. 27.
- Beverage and syrup for making same, Non-alcoholic, non-cereal, maltless. F. W. Connolly. No. 140,098; Mar. 8; v. 284; p. 364.
- Beverage, &c., and syrup for making the same, Non-Alcoholic. Glory Beverage Company. No. 139,799; Feb. 22; v. 283; p. 752.
- Beverage and syrup for manufacturing same, Non-alcoholic. C. B. Marvin. No. 140,286; Mar. 8; v. 284; p. 373.
- Beverage and syrup therefor, Non-alcoholic, maltless. W. H. Ridgaway. No. 143,442; May 31; v. 286; p. 1052.
- Beverage, Carbonated tea. Anheuser-Busch. No. 143,544; June 7; v. 287; p. 181.
- Beverage, Cereal. Milwaukee Brewery of San Francisco. No. 144,529; July 5; v. 288; p. 199.
- Beverage, Cereal malt. Central Beverage Company. No. 140,094; Mar. 8; v. 284; p. 363.
- Beverage, Cereal malt. Independent Breweries Company. No. 148,443; Nov. 15.
- Beverage, Cereal maltless. Fort Pitt Brewing Company. No. 139,794; Feb. 22; v. 283; p. 752.
- Beverage, Cereal non-intoxicating malt. Rieger & Gretz Brewing Company. No. 142,110; May 3; v. 286; p. 190.
- Beverage, Compound for making. Dunne-McCord Company. No. 147,088; Oct. 4.
- Beverage made of malt and cereals. Griesedieck Brothers Brewery Company. No. 139,543; Feb. 8; v. 283; p. 351.
- Beverage, Malt. Inner Circle Corporation. No. 145,382; Aug. 2; v. 289; p. 179.
- Beverage, Malt. Paterson Brewing & Malting Company. Nos. 141,634-5; Apr. 26; v. 285; p. 782.
- Beverage, Malt cereal. M. K. Goetz Brewing Co. No. 139,800; Feb. 22; v. 283; p. 752.
- Beverage, Maltless. Cleveland & Sandusky Brewing Company. No. 147,964; Nov. 8.
- Beverage, Maltless. Lash's Products Co. No. 141,401; Apr. 19; v. 285; p. 568.
- Beverage, Maltless. Lash's Products Co. No. 142,005; May 3; v. 286; p. 186.
- Beverage, Maltless, non-alcoholic. Queen City Bottling Company. No. 150,069; Dec. 27.
- Beverage, Maltless, non-cereal. Northwestern Extract Co. No. 145,515; Aug. 2; v. 289; p. 186.
- Beverage, Non-alcoholic. American Beverages Co. No. 141,473; Apr. 26; v. 285; p. 777.
- Beverage, Non-alcoholic. Ecks Limited. No. 139,133; Jan. 25; v. 282; p. 733.
- Beverage, Non-alcoholic. J. T. Hudson. No. 140,402; Mar. 15; v. 284; p. 582.
- Beverage, Non-alcoholic. Iroquois Beverage Company. No. 148,871; Nov. 29.
- Beverage, Non-alcoholic. G. U. Lipshulch. No. 149,988; Dec. 27.
- Beverage, Non-alcoholic. Renner Company. No. 144,454; July 5; v. 288; p. 194.
- Beverage, Non-alcoholic. Tisco Company. No. 147,065; Sept. 27; v. 290; p. 809.
- Beverage, Non-alcoholic. W. T. Wagner's Sons Co. No. 150,159; Dec. 27.
- Beverage, Non-alcoholic. O. C. Willson. No. 139,781; Feb. 15; v. 283; p. 541.
- Beverage, Non-alcoholic cereal. Berghoff Brewing Ass'n. No. 148,358; Nov. 15.
- Beverage, Non-alcoholic coffee. King Coffee Products Corporation. No. 138,981; Jan. 18; v. 282; p. 554.
- Beverage, Non-alcoholic fruit. C. A. Cawley. No. 145,623; Aug. 16; v. 289; p. 592.
- Beverage, Non-alcoholic fruit. D. N. Goldberg. No. 145,370; Aug. 2; v. 289; p. 179.
- Beverage, Non-alcoholic fruit. Warwick Bottling Works. No. 143,217; May 24; v. 286; p. 852.
- Beverage, Non-alcoholic malt. Golden Grain Juice Co. No. 143,621; June 7; v. 287; p. 184.
- Beverage, Non-alcoholic malt. Lexington Brewing Company. No. 141,594; Apr. 26; v. 285; p. 781.
- Beverage, Non-alcoholic maltless. W. M. Chapman. No. 147,724; Oct. 25.
- Beverage, Non-alcoholic maltless. Coleman and Company, Limited. No. 146,970; Sept. 27; v. 290; p. 804.
- Beverage, Non-alcoholic maltless. Energlo Company. No. 139,978; Mar. 1; v. 284; p. 173.
- Beverage, Non-alcoholic, maltless. A. C. Gibson. No. 149,311; Dec. 6.
- Beverage, Non-alcoholic maltless. Hurty-Peck & Company. No. 148,584; Nov. 15.
- Beverage, Non-alcoholic maltless. Independent Brewing Company of Pittsburgh. No. 139,555; Feb. 8; v. 283; p. 351.
- Beverage, Non-alcoholic maltless. K. & K. Chemical Co. No. 140,851; Mar. 29; v. 284; p. 945.
- Beverage, Non-alcoholic, maltless. J. M. Lafin. No. 140,158; Mar. 8; v. 284; p. 365.
- Beverage, Non-alcoholic, maltless. Magnus Fruit Products Co. No. 148,688; Nov. 22.
- Beverage, Non-alcoholic maltless. S. S. S. Mfg. Co. No. 144,932; July 19; v. 288; p. 622.
- Beverage, Non-alcoholic maltless. H. P. Miller. No. 142,043; May 3; v. 286; p. 188.
- Beverage, Non-alcoholic maltless. L. Schiller. No. 141,433; Apr. 19; v. 285; p. 569.
- Beverage, Non-alcoholic maltless. L. Schiller. No. 145,453; Aug. 2; v. 289; p. 181.
- Beverage, Non-alcoholic maltless. Schuster Co. No. 141,217; Apr. 12; v. 285; p. 383.
- Beverage, Non-alcoholic, maltless. H. W. Van Doren. No. 149,537; Dec. 13.
- Beverage, Non-alcoholic, maltless, non-cereal. W. B. Swayzee. No. 146,374; Sept. 6; v. 290; p. 203.
- Beverage, Non-alcoholic, non-cereal. The Bee Bee Confection Company. No. 141,318; Apr. 19; v. 285; p. 565.
- Beverage, Non-alcoholic, non-cereal. Capitol Brewery Co. No. 142,464; May 17; v. 286; p. 625.
- Beverage, Non-alcoholic, non-cereal. Say Tay Co. No. 141,213; Apr. 12; v. 285; p. 383.
- Beverage, Non-alcoholic, non-cereal, maltless. M. Brock and A. B. Praetsch. No. 149,852; Dec. 27.
- Beverage, Non-alcoholic, non-cereal, maltless. U. L. Davies. No. 149,026; Dec. 6.
- Beverage, Non-alcoholic, non-cereal, maltless. Hootch Mfg. Co. No. 148,439; Nov. 15.
- Beverage, Non-alcoholic, non-cereal, maltless. M. Ma-tranga. No. 148,690; Nov. 22.
- Beverage, Non-alcoholic, non-cereal, maltless. G. N. Prokos. No. 150,066; Dec. 27.
- Beverage, Non-cereal, maltless. Orange Nectar Co. No. 146,657; Sept. 13; v. 290; p. 429.
- Beverage, Non-intoxicating. Danciger Brothers. No. 144,737; July 19; v. 288; p. 616.
- Beverage, Non-intoxicating. Greenwood Beverage Co. No. 140,133; Mar. 8; v. 284; p. 365.
- Beverage, Non-intoxicating. S. Hirsch Distilling Co. No. 139,322; Feb. 1; v. 283; p. 169.
- Beverage, Non-intoxicating cereal. Beadleston & Woerz. No. 140,325; Mar. 15; v. 284; p. 579.
- Beverage, Non-intoxicating, cereal, malt. Highland Brewing Co. No. 142,565; May 17; v. 286; p. 628.
- Beverage, Non-intoxicating, cereal, malt. D. G. Yuengling & Son. No. 150,189; Dec. 27.
- Beverage, Non-intoxicating cereal maltless. A. Liebmann. No. 139,342; Feb. 1; v. 283; p. 170.
- Beverage, Non-intoxicating fruit. J. M. Murphy. Nos. 140,907-8; Mar. 29; v. 284; p. 946.
- Beverage, Non-intoxicating malt. Anheuser-Busch. No. 139,754; Feb. 22; v. 283; p. 751.
- Beverage, Non-intoxicating, malt, cereal. Sweetwater Beverage Company. No. 140,301; Mar. 8; v. 284; p. 374.
- Beverage, Non-intoxicating maltless. B. & C. Mfg. Co. No. 145,603; Aug. 16; v. 289; p. 591.
- Beverage, Non-intoxicating, maltless, non-cereal. Joseph Krieg-Fink Co. No. 149,136; Dec. 6.
- Beverage, Non-intoxicating, maltless, non-cereal. Pearl City Fruit Company. No. 150,048; Dec. 27.
- Beverage, Non-intoxicating, non-cereal, maltless fruit. J. L. Wood. No. 139,668; Feb. 8; v. 283; p. 355.
- Beverage-powders. Jiffy Dessert Company. No. 142,589; May 17; v. 286; p. 628.
- Beverage resembling tea, Leaves and berries used for making a. H. Brunner. No. 139,494; Feb. 8; v. 283; p. 349.
- Beverage, Table. Dr. Otto Mausert. No. 143,080; May 24; v. 286; p. 848.
- Beverage, Unfermented, non-alcoholic. The Sweet Valley Products Co. No. 141,244; Apr. 12; v. 285; p. 384.
- Beverages. Druggist Sundries Company. No. 141,114; Apr. 12; v. 285; p. 385.
- Beverages. Peter Hand Company. No. 141,055; Apr. 5; v. 285; p. 187.
- Beverages and extract for making same, Non-alcoholic maltless. Lehman-Rosenfeld Company. No. 147,494; Oct. 18.
- Beverages and syrup for flavoring same, Non-alcoholic. Sweet Orchard Company. No. 147,702; Oct. 25.
- Beverages and syrups for making, Non-alcoholic, non-cereal, maltless. H. H. Nelson. No. 150,026; Dec. 27.
- Beverages and syrups for making same. Acme Beverage-Extract Co. No. 148,966; Dec. 6.
- Beverages and syrups for making same. Acme Beverage-Extract Co. No. 149,810; Dec. 27.
- Beverages and syrup for making same. H. B. Bischoff. No. 149,349; Dec. 13.
- Beverages and syrups for making same. Evers-Rehm Co. No. 149,916; Dec. 27.
- Beverages and syrups for making same. A. C. Jewell. No. 149,427; Dec. 13.



## Alphabetical list of trade-marks—Continued.

- Beverages and syrups for making same. A. F. Kloss Co. No. 149,972; Dec. 27.
- Beverages and syrups for making same. Red-Pep Company. No. 139,874; Feb. 22; v. 283; p. 755.
- Beverages and syrups for making the same. World Bottling Co., Ltd. No. 141,276; Apr. 12; v. 285; p. 385.
- Beverages and syrups for making same, Non-alcoholic. Arrowhead Springs Company. No. 143,783; June 7; v. 287; p. 189.
- Beverages and syrups for making, Non-alcoholic. J. E. Fowler. No. 139,450; Feb. 1; v. 283; p. 175.
- Beverages and syrups for making the same, Non-alcoholic. Pulaski Company. No. 139,189; Jan. 25; v. 282; p. 735.
- Beverages and syrups for making same, Non-alcoholic carbonated. Kool Kola Co. No. 141,589; Apr. 26; v. 285; p. 780.
- Beverages and syrups for making same, Non-alcoholic, non-cereal. Goldelle Ginger Ale Co. No. 148,418; Nov. 15.
- Beverages and syrups for making same, Non-alcoholic, non-cereal, maltless. G. W. Anderson. No. 148,630; Nov. 22.
- Beverages and syrups for making same, Non-alcoholic, non-cereal, maltless. Orange Surprise Syrup & Bottling Co. No. 150,037; Dec. 27.
- Beverages and syrups for making, Non-alcoholic, non-cereal, maltless. V. O. Robertson. No. 150,080; Dec. 27.
- Beverages and syrups, Non-alcoholic. W. C. Hathaway. No. 148,428; Nov. 15.
- Beverages and syrups, Non-alcoholic, maltless. United Cola Bottlers Corporation. No. 142,806; May 17; v. 286; p. 635.
- Beverages and syrups therefor. Bee Bee Confection Company. No. 143,285; May 31; v. 286; p. 1047.
- Beverages and syrups therefor, Non-alcoholic, non-cereal, maltless. J. Glazer. No. 143,617; June 7; v. 287; p. 183.
- Beverages and syrups therefor, Non-alcoholic, non-cereal, maltless. A. F. Kloss Co. No. 143,379; May 31; v. 286; p. 1050.
- Beverages and syrups therefor, Non-cereal maltless. Star Extract Works. No. 139,637; Feb. 8; v. 283; p. 354.
- Beverages, apple cider, ginger-ale, &c. C. J. Vath. No. 143,204; May 24; v. 286; p. 852.
- Beverages, Cereal. Consumers Brewing Company. No. 141,345; Apr. 19; v. 285; p. 566.
- Beverages, Cereal malt. Gottlieb Bauernschmidt Straus Brewing Company. No. 141,128; Apr. 12; v. 285; p. 381.
- Beverages, extracts, and liquors, Malt. American Diamond Company. No. 140,068; Mar. 8; v. 284; p. 363.
- Beverages in the form of a syrup or carbonated in bottles, Non-alcoholic. Southern Beverage Company. No. 144,420; July 5; v. 288; p. 193.
- Beverages, Malt. Detroit Beverage Company. No. 142,863; May 17; v. 286; p. 638.
- Beverages, Malt. E. Steinhauser. No. 142,778; May 17; v. 286; p. 634.
- Beverages, Malt. United Breweries Company. No. 140,454; Mar. 15; v. 284; p. 583.
- Beverages, Malt and hop. Sethness Company. No. 149,501; Dec. 13.
- Beverages, malt extracts and tonics, Malt and cereal. V. Neustadt. No. 146,308; Sept. 6; v. 290; p. 201.
- Beverages, malt extracts, &c., Certain. Val Blatt Brewing Co. No. 145,611; Aug. 16; v. 289; p. 591.
- Beverages, malt extracts, near beer, &c., Certain. Val Blatt Brewing Company. No. 145,846; Aug. 16; v. 289; p. 599.
- Beverages, Malted non-alcoholic. Dennos Food Company. No. 141,107; Apr. 12; v. 285; p. 380.
- Beverages, Maltless fruit. Red Ball Company. No. 148,937; Nov. 29.
- Beverages, Maltless non-alcoholic. Stoneward Corp. No. 149,513; Dec. 13.
- Beverages, Maltless, non-alcoholic, non-cereal. Oregon Growers Cooperative Assn. Nos. 150,038-9; Dec. 27.
- Beverages, Maltless, non-cereal. Los Angeles Ice & Cold Storage Company. No. 149,992; Dec. 27.
- Beverages, Material for chill-proofing and stabilizing. American Tonsul Company. No. 147,748; Nov. 1.
- Beverages, Non-alcoholic. Cairo Food Products Company. No. 141,503; Apr. 26; v. 285; p. 778.
- Beverages, Non-alcoholic. A. Campodonico. No. 140,341; Mar. 15; v. 284; p. 580.
- Beverages, Non-alcoholic. F. R. Perkins. No. 139,185; Jan. 25; v. 282; p. 735.
- Beverages, Non-alcoholic. B. Schriro. No. 146,862; Sept. 20; v. 290; p. 637.
- Beverages, Non-alcoholic. S. M. Starkey. No. 140,978; Mar. 29; v. 284; p. 949.
- Beverages, Non-alcoholic cereal. Jackson Brewing Company. No. 148,451; Nov. 15.
- Beverages, Non-alcoholic, cereal, malt. Venoz Beverage Company. No. 141,000; Mar. 29; v. 284; p. 949.
- Beverages, Non-alcoholic fruit. Cream City Products Company. No. 139,503; Feb. 8; v. 283; p. 350.
- Beverages, Non-alcoholic fruit. Rainier Products Company. No. 138,696; Jan. 4; v. 282; p. 189.
- Beverages, Non-alcoholic malt. V. Loewer's Gambrinus Brewery Co. No. 140,424; Mar. 15; v. 284; p. 582.
- Beverages, Non-alcoholic, maltless. S. Blackman. No. 143,290; May 31; v. 286; p. 1047.
- Beverages, Non-alcoholic, maltless. Chatham Bottling Company. No. 146,708; Sept. 20; v. 290; p. 632.
- Beverages, Non-alcoholic, maltless. Essantee Company. No. 144,756; July 19; v. 288; p. 617.
- Beverages, Non-alcoholic, maltless. Piel Bros. No. 142,712; May 17; v. 286; p. 632.
- Beverages, Non-alcoholic, maltless. M. Robins. No. 145,288; July 26; v. 288; p. 825.
- Beverages, Non-alcoholic, maltless. S. Salierno. No. 144,916; July 19; v. 288; p. 622.
- Beverages, Non-alcoholic, maltless. Stone Fizz Company of America. No. 144,948; July 19; v. 288; p. 623.
- Beverages, Non-alcoholic, maltless. Watkins Beverage Company. No. 143,218; May 24; v. 286; p. 852.
- Beverages, Non-alcoholic non-cereal maltless. Bee Bee Confection Company. No. 139,484; Feb. 8; v. 283; p. 349.
- Beverages, Non-alcoholic, non-cereal, maltless. B. F. Ruth. No. 150,091; Dec. 27.
- Beverages, Non-alcoholic, non-cereal, maltless. Service Corp. Nos. 150,104-5; Dec. 27.
- Beverages, Non-alcoholic non-intoxicating. J. G. F. Hieber. No. 141,963; May 3; v. 286; p. 185.
- Beverages, Non-intoxicating. H. P. Schroeder. No. 142,123; May 3; v. 286; p. 190.
- Beverages, Non-intoxicating. H. P. Schroeder. No. 149,232; Dec. 6.
- Beverages, Non-intoxicating. West End Brewing Co. No. 144,492; July 5; v. 288; p. 196.
- Beverages sold as soft drinks. M. H. Leister. No. 141,160; Apr. 12; v. 285; p. 382.
- Beverages, syrup colors and flavors used in the preparation thereof, Non-alcoholic. Kamm Co. No. 143,057; May 24; v. 286; p. 847.
- Beverages, syrups for making same, and spring-water. W. J. Brendel. No. 147,756; Nov. 1.
- Beverages, Various non-alcoholic maltless. Piel Bros. Nos. 142,706-7; May 17; v. 286; p. 632.
- Bicarbonate of soda, saleratus, and baking-powder. Church & Dwight Company. No. 142,960; May 24; v. 286; p. 844.
- Bicycles. D. P. Harris Hardware & Manufacturing Co. Nos. 145,686-7; Aug. 16; v. 289; p. 594.
- Bicycles. D. P. Harris Hardware & Manufacturing Co. No. 149,581; Dec. 13.
- Bicycles, Power-driven. Cyclemotor Corporation. No. 147,583; Oct. 25.
- Bicycles, tricycles, &c. Broadway Cycle Co. No. 141,327; Apr. 19; v. 285; p. 565.
- Bicycles, tricycles, velocipedes, motorcycles, and parts thereof. Broadway Cycle Co. No. 145,617; Aug. 16; v. 289; p. 592.
- Billiard-cloth. Brunswick-Balke-Collender Company. No. 142,486; May 17; v. 286; p. 625.
- Bills of exchange. R. Sims. No. 146,361; Sept. 6; v. 290; p. 203.
- Binders, blank books, desk-pads, &c., Loose-leaf. Shea Smith & Co. No. 140,215; Mar. 8; v. 284; p. 367.
- Bindings of cotton, silk, and wool. H. S. Rosenthal. No. 142,734; May 17; v. 286; p. 633.
- Binoculars. E. B. Meyrowitz, Inc. No. 140,891; Mar. 29; v. 284; p. 946.
- Birch-ale. Schoenhofen Company. No. 138,702; Jan. 4; v. 282; p. 189.
- Biscuit. National Biscuit Company. No. 143,180; May 24; v. 286; p. 849.
- Biscuit. National Biscuit Company. No. 143,693; June 7; v. 287; p. 186.
- Biscuit. National Biscuit Company. No. 144,905; July 19; v. 288; p. 622.
- Biscuit. National Biscuit Company. No. 145,164; July 26; v. 288; p. 815.
- Biscuit. National Biscuit Company. No. 145,231; July 26; v. 288; p. 817.
- Biscuit. National Biscuit Company. No. 145,423; Aug. 2; v. 289; p. 180.
- Biscuit and crackers. National Biscuit Company. No. 146,655; Sept. 13; v. 290; p. 428.
- Biscuit and crackers. National Biscuit Company. No. 149,708; Dec. 20.
- Biscuit and crackers, Soda. J. B. Carr Biscuit Co. No. 146,705; Sept. 20; v. 290; p. 632.
- Biscuit, crackers, and cake. National Biscuit Company. No. 149,707; Dec. 20.
- Biscuits and crackers. Grocers Biscuit Company. No. 142,272; May 10; v. 286; p. 404.
- Biscuits, Mixed. Consumers Biscuit Co. No. 146,445; Sept. 6; v. 290; p. 209.
- Bismuth and cydrastin solution for indigestion, &c. William S. Merrell Company. No. 143,085; May 24; v. 286; p. 848.
- Bismuth compound used in diarrhea or various intestinal disorders. William S. Merrell Company. No. 142,029; May 3; v. 286; p. 187.
- Bitters, Aromatic. C. W. Abbott & Co. No. 141,822; May 3; v. 286; p. 181.
- Blackening and dressing iron surfaces, Preparation for. Pingo Company. No. 145,641; Aug. 16; v. 289; p. 592.



*Alphabetical list of trade-marks—Continued.*

- Blackings, polishes, &c., for leather articles and metal-polishes. Société Anonyme des Produits du Lion Noir. No. 142,770; May 17; v. 286; p. 634.
- Blank books and forms, Certain. National Thrift Association. No. 148,176; Nov. 8.
- Blank books and indexes. National Blank Book Co. No. 148,173; Nov. 8.
- Blank forms. A. S. Gilman Printing Company. No. 141,127; Apr. 12; v. 285; p. 381.
- Blank forms composing an efficiency-service system for dentists. G. A. Graham. No. 148,420; Nov. 15.
- Blanket-bindings and tapes. Macungie Silk Company. No. 149,153; Dec. 6.
- Blankets. Chatham Manufacturing Company. No. 146,637; Sept. 13; v. 290; p. 426.
- Blankets. Chatham Manufacturing Company. Nos. 149,010-2; Dec. 6.
- Blankets, Cotton bed-. Esmond Mills. No. 148,012; Nov. 8.
- Blankets, All-wool. R. H. Macy & Co. No. 141,600; Apr. 26; v. 285; p. 781.
- Blankets and piece goods. Associated American Industries. No. 139,756; Feb. 22; v. 283; p. 757.
- Blankets made of cotton and of a mixture of cotton and wool. W. S. Libbey Company. No. 149,431; Dec. 13.
- Blankets, Manufactured. Edson Moore & Company. No. 139,352; Feb. 1; v. 283; p. 170.
- Blankets, Manufactured. Edson Moore & Company. No. 146,085; Aug. 30; v. 289; p. 1013.
- Blankets, Manufactured. Ely & Walker Dry Goods Company. No. 139,293; Feb. 1; v. 283; p. 168.
- Blankets, quilts, bedspreads, cotton and wool piece goods, handkerchiefs. Western Dry Goods Co. No. 143,772; June 7; v. 287; p. 188.
- Blankets, Woolen. Wyman, Partridge & Co. No. 147,722; Oct. 25.
- Blasting supplies, ammunition, and accessories. Western Cartridge Company. No. 142,347; May 10; v. 286; p. 406.
- Bleach and toilet cream. F. J. Hawkins. No. 140,397; Mar. 15; v. 284; p. 581.
- Bleaching compounds and powders for cleaning linen, &c. Société Anonyme des Produits du Lion Noir. No. 139,889; Feb. 22; v. 283; p. 755.
- Bleaching-powder, soda-ash, soda crystals, and bicarbonates. The United Alkali Company Limited. No. 20,027; Nov. 15; renewed Aug. 11, 1921.
- Blood-purifier. San Miguel Medicine Co. No. 145,746; Aug. 16; v. 289; p. 595.
- Blood-purifier. A. Sparta. No. 139,891; Feb. 22; v. 283; p. 755.
- Blood-purifier, Vegetable. W. S. Burkhart. No. 146,700; Sept. 20; v. 290; p. 632.
- Blood-purifying solution. Pisecek & Briscoe. No. 149,604; Dec. 13.
- Bloomers, blouses, waists, skirts, &c. Morris & Company. No. 147,372; Oct. 11.
- Blouse-suits and blouses, Ladies' and children's. Straus, Royer & Strass. No. 150,135; Dec. 27.
- Blouses. M. M. Konski. No. 144,322; June 28; v. 287; p. 781.
- Blouses and bloomers, Children's. Peter Pan Co. No. 145,776; Aug. 16; v. 289; p. 596.
- Blouses and overalls. Brown Durrell Co. No. 141,328; Apr. 19; v. 285; p. 565.
- Blouses, Boys'. Fred'k H. Sprague Co. No. 140,219; Mar. 8; v. 284; p. 367.
- Blouses, Boys'. Greencbaum Bros. & Co. No. 143,357; May 31; v. 286; p. 1049.
- Blouses, Boys'. Oberndorfer Co. No. 147,383; Oct. 11.
- Blouses, dresses, coats, smocks. Jacobs Brothers. No. 146,265; Sept. 6; v. 290; p. 200.
- Blouses, dresses, skirts, suits, and bloomers, Ladies' and children's. Straus, Royer & Strass. No. 148,272; Nov. 8.
- Blouses, Ladies'. Lerner Waist Co. Nos. 145,715-16; Aug. 16; v. 289; p. 594.
- Blouses, Ladies'. Lorraine Stores Corporation. No. 145,732; Aug. 16; v. 289; p. 595.
- Blouses, middy dresses and suits, Middy-. D. Caplan & Sons. No. 143,845; June 14; v. 287; p. 399.
- Blouses, pajamas, and overalls. E. Byrnes. No. 148,369; Nov. 15.
- Blouses, play-suits, or rompers, &c., Boys'. Sonny Manufacturing Co. No. 145,582; Aug. 9; v. 289; p. 408.
- Blouses, Women's. Al Levy & Bro. No. 140,621; Mar. 22; v. 284; p. 745.
- Blowers. Champion Blower & Forge Co. No. 146,439; Sept. 6; v. 290; p. 208.
- Blowpipes. Torchweld Equipment Company. No. 146,892; Sept. 20; v. 290; p. 638.
- Blue, Laundry. J. L. Prescott Company. No. 150,063; Dec. 27.
- Blue, Laundry. Reckitts (U. S. A.), Ltd. No. 140,945; Mar. 29; v. 284; p. 948.
- Blue, Laundry. W. E. Spence. No. 148,267; Nov. 8.
- Blue, Wash-. S. Bernstein. No. 140,080; Mar. 8; v. 284; p. 363.
- Blue, Wash-. Siemon & Elting. No. 142,128; May 3; v. 286; p. 190.
- Bluing. W. R. Hollingshead Company. No. 141,966; May 3; v. 286; p. 185.
- Bluing. Twin City Mfg. Co. No. 143,760; June 7; v. 287; p. 188.
- Bluing and ammonia. Thoro Products Mfg. Co. No. 150,141; Dec. 27.
- Bluing, Laundry. Tip Top Bluing Works. No. 148,545; Nov. 15.
- Bluing. L. E. Scofield. No. 146,354; Sept. 6; v. 290; p. 203.
- Board, Binders'-. C. B. Hewitt Brothers. No. 141,381; Apr. 19; v. 285; p. 567.
- Board, Box-. American Writing Paper Company. No. 140,732; Mar. 29; v. 284; p. 941.
- Boats and parts thereof, Certain. Old Town Canoe Company. No. 149,793; Dec. 20.
- Bobbin-cleaning machine. Terrell Machine Company. No. 147,704; Oct. 25.
- Bodkins and tape-needles. M. A. Patterson. No. 138,692; Jan. 4; v. 282; p. 189.
- Body-vermin destroyer. Raabe & Bowman. No. 147,390; Oct. 11.
- Boiler and radiator preparation. F. D. Conard. No. 139,277; Feb. 1; v. 283; p. 168.
- Boiler compound. Dearborn Chemical Company. No. 145,649; Aug. 16; v. 289; p. 592.
- Boiler compound. Modoc Company of Pa. No. 139,172; Jan. 25; v. 282; p. 735.
- Boiler compound. F. Salathe. No. 139,196; Jan. 25; v. 282; p. 735.
- Boiler compound and also antifreezing compound. H. F. Hayden. No. 149,404; Dec. 13.
- Boiler compound, disinfectant, antifreeze solution. Jewett & Sowers Oil Co. No. 141,582; Apr. 26; v. 285; p. 780.
- Boiler compounds. Seminole Chemical Co. No. 140,680; Mar. 22; v. 284; p. 747.
- Boilers and appurtenances thereto, Steam-. Christopher Cunningham Company. No. 145,547; Aug. 9; v. 289; p. 407.
- Boilers, Combustion control for steam-. Automatic Fuel Saving Co. No. 148,632; Nov. 22.
- Boilers, Range-. Pennsylvania Range Boiler Co. No. 149,199; Dec. 6.
- Boil-weevil spray. Cotton Industrial Corporation. No. 141,910; May 3; v. 286; p. 183.
- Bolts, screws, studs, &c. Atlas Bolt & Screw Co. No. 147,268; Oct. 11.
- Bonbons and chocolates. George S. Dilas & Company. No. 148,814; Nov. 29.
- Bone-builder and conditioner for hogs. Avalon Farms Company. No. 142,923; May 24; v. 286; p. 843.
- Boning, steels, and staying materials for corsets, &c. Mightybone Corporation of New York. No. 148,164; Nov. 8.
- Booklets and leaflets, Printed. Process Engineers, Incorporated. No. 147,388; Oct. 11.
- Booklets and pamphlets, Printed. American Social Hygiene Association. No. 145,534; Aug. 9; v. 289; p. 407.
- Booklets and pamphlets, Printed. T. G. Cooke. Nos. 149,760-1; Dec. 20.
- Booklets, Monthly. A. S. J. Gammon. No. 145,365; Aug. 2; v. 289; p. 179.
- Booklets, Periodically-issued. Wm. Fischman Inc. No. 144,761; July 19; v. 288; p. 617.
- Books and fillers therefor, Memorandum-. Robinson Manufacturing Co. No. 146,343; Sept. 6; v. 290; p. 202.
- Books and forms, filing-cards, &c. Blank. D. G. McCarty. No. 141,408; Apr. 19; v. 285; p. 568.
- Books and pamphlets. E. P. Harris. No. 141,135; Apr. 12; v. 285; p. 381.
- Books and pamphlets in series, Printed. E. Nieman. No. 148,495; Nov. 15.
- Books and printed matter, Instruction-. Dollfus Mieg & Cie. Société Anonyme. Nos. 140,302-3; Oct. 11.
- Books and similar publications, Instruction-. Bernhard Ulmann Co. No. 145,196; July 26; v. 288; p. 816.
- Books, charts, &c., for teaching music. H. E. Millikin. No. 144,006; June 21; v. 287; p. 581.
- Books, Check-. Standard Check Book Co. No. 147,518; Oct. 18.
- Books, Covers for. American Writing Paper Company. No. 139,022; Feb. 22; v. 283; p. 757.
- Books issued semiannually. Haas Brothers Fabrics Corporation. No. 144,222; June 28; v. 287; p. 775.
- Books, magazines, circulars. Allied Labor Press Association. No. 141,071; Apr. 12; v. 285; p. 379.
- Books, magazines, pamphlets, &c. E. A. Townley. No. 144,071; June 21; v. 287; p. 583.
- Books of a blank nature, Budget-. Staples & Staples. No. 139,215; Jan. 25; v. 282; p. 736.
- Books, pamphlets and circulars, Printed. National Automobile Dealers Ass'n. No. 142,062; May 3; v. 286; p. 188.
- Books, pamphlets, posters, &c. Christmas Club (a Corporation). No. 146,028; Aug. 23; v. 289; p. 791.
- Books, Printed. Dorrance & Company. No. 148,392; Nov. 15.
- Books, Printed. J. F. Draughon. No. 147,998; Nov. 8.
- Books, published in series, Printed. E. J. Clode. No. 143,306; May 31; v. 286; p. 1048.
- Books, Series of. P. F. Collier & Son Company. Nos. 146,029-30; Aug. 23; v. 289; p. 791.
- Boot and shoe counters. J. Spaulding & Sons Co. No. 139,100; Jan. 18; v. 282; p. 561.



*Alphabetical list of trade-marks—Continued.*

- Boots and shoes. Bray & Stanley. No. 147,554; Oct. 25.  
 Boots and shoes. Chas. E. Lynch Shoe Mfg. Co. No. 142,292; May 10; v. 286; p. 405.  
 Boots and shoes. B. A. Corbin & Son Co. No. 141,908; May 3; v. 286; p. 183.  
 Boots and shoes. Econo Shoe Manufacturing Co. No. 143,940; June 21; v. 287; p. 579.  
 Boots and shoes. Emerson Shoe Company. No. 143,596; June 7; v. 287; p. 183.  
 Boots and shoes. Huntington Shoe and Leather Company. No. 148,671; Nov. 22.  
 Boots and shoes. Old Colony Shoe Company. No. 147,362; Oct. 11.  
 Boots and shoes. Pennington-Crowell Shoe Company. No. 145,774; Aug. 16; v. 289; p. 596.  
 Boots and shoes. Slater and Morrill. No. 142,781; May 17; v. 286; p. 634.  
 Boots and shoes. Stacy-Adams Company. No. 150,119; Dec. 27.  
 Boots and shoes. Sterling Shoes Corporation. No. 146,887; Sept. 20; v. 290; p. 638.  
 Boots and shoes. L. Teter. No. 144,067; June 21; v. 287; p. 583.  
 Boots and shoes. United States Rubber Company. No. 143,202; May 24; v. 286; p. 852.  
 Boots and shoes all of leather. Chas. E. Lynch Shoe Mfg. Co. No. 147,870; Nov. 1.  
 Boots and shoes for infants and children. Towle & Surridge. No. 149,267; Dec. 6.  
 Boots and shoes for misses and children. Leather. Wm. Kaut Footwear Company. No. 140,154; Mar. 8; v. 284; p. 365.  
 Boots and shoes, Infants' and children's. Little Witch Shoe Co. No. 149,145; Dec. 6.  
 Boots and shoes, Leather. Barney, Capen & Denham Co. No. 138,570; Jan. 4; v. 282; p. 185.  
 Boots and shoes, Leather. Carlisle Shoe Co. No. 148,371; Nov. 15.  
 Boots and shoes, Leather. Florsheim Shoe Company. No. 144,764; July 19; v. 288; p. 617.  
 Boots and shoes, Leather. Florsheim Shoe Company. No. 146,737; Sept. 20; v. 290; p. 633.  
 Boots and shoes, Leather. Foot, Schulze & Co. No. 147,848; Nov. 1.  
 Boots and shoes, Leather. C. Gotzian & Co. No. 139,935; Feb. 22; v. 283; p. 758.  
 Boots and shoes, Leather. F. M. Hoyt Shoe Company. No. 148,441; Nov. 15.  
 Boots and shoes, Leather. Knipe Bros. No. 149,132; Dec. 6.  
 Boots and shoes, Leather. Leonard & Barrows. No. 143,667; June 7; v. 287; p. 185.  
 Boots and shoes, Leather. L. J. Levine. No. 144,829; July 19; v. 288; p. 619.  
 Boots and shoes, Leather. Platin Bros. Shoe Co. No. 143,717; June 7; v. 287; p. 186.  
 Boots and shoes made wholly or partly of rubber. B. F. Goodrich Company. No. 144,525; July 5; v. 288; p. 199.  
 Boots and shoes of leather, fabric, &c. Wm. Filene's Sons Company. No. 139,934; Feb. 22; v. 283; p. 758.  
 Boots and shoes of leather or cloth and leather. Henry Cort Company. No. 142,250; May 10; v. 286; p. 403.  
 Boots and shoes, Polishes and dressings for. J. Magenheim. No. 147,637; Oct. 25.  
 Boots and shoes, soles, and sole and heel pads. F. R. Segger. No. 140,679; Mar. 22; v. 284; p. 747.  
 Boots and shoes, Women's leather. Foot, Schulze & Co. No. 139,677; Feb. 8; v. 283; p. 366.  
 Boots, Lumbermen's. United States Rubber Company. No. 140,065; Mar. 1; v. 284; p. 179.  
 Boots, shoes, and puttees of leather. A. E. Nettleton Company. No. 139,688; Feb. 8; v. 283; p. 357.  
 Boots, shoes, and slippers. Dorothy Dodd Shoe Company. No. 140,586; Mar. 22; v. 284; p. 744.  
 Boots, shoes, and slippers. H. Hollingsworth. No. 140,610; Mar. 22; v. 284; p. 745.  
 Boots, shoes, and slippers. Thomas G. Plant Company. No. 140,669; Mar. 22; v. 284; p. 747.  
 Boots, shoes, and slippers. Thomas G. Plant Company. No. 142,092; May 3; v. 286; p. 189.  
 Boots, shoes, and slippers. Thomas G. Plant Company. Nos. 145,571-2; Aug. 9; v. 289; p. 408.  
 Boots, shoes, and slippers. Thomas G. Plant Company. No. 145,781; Aug. 16; v. 289; p. 597.  
 Boots, shoes, and slippers, Leather and fibrous. M. Samuels & Co. No. 147,882; Nov. 1.  
 Boots, shoes, and slippers of leather, felt, cloth, rubber, &c. Thomas G. Plant Company. No. 150,055; Dec. 27.  
 Boots, shoes, pacs, calk-locks, &c. C. W. Shoe Manufacturing Company. No. 144,054; June 21; v. 287; p. 582.  
 Boots, shoes, slippers, &c. Bally Company. No. 142,232; May 10; v. 286; p. 403.  
 Boots, shoes, slippers, &c. Thomas G. Plant Company. No. 144,913; July 19; v. 288; p. 622.  
 Boots, shoes, slippers, and shoe findings. Bally Company. No. 142,231; May 10; v. 286; p. 403.  
 Boots, shoes, slippers, moccasins, Leather. J. S. Turner Manufacturing Co. No. 145,239; July 26; v. 288; p. 817.  
 Boots, shoes, slippers, pumps, oxfords, Women's and misses'. J. Lindner. No. 141,406; Apr. 19; v. 285; p. 568.  
 Boots, shoes, slippers, spats. Thomas G. Plant Company. No. 146,551; Sept. 6; v. 290; p. 220.  
 Booties and slippers, Felt. George Borgfeldt & Co. No. 144,704; July 19; v. 288; p. 615.  
 Bottle and the like closers. International Cork Company. No. 141,979; May 3; v. 286; p. 186.  
 Bottle-capping machines. S. J. Levy. No. 149,588; Dec. 13.  
 Bottle-caps. Williams Sealing Corporation. No. 143,271; May 24; v. 286; p. 859.  
 Bottle-openers and bottle-cap removers. G. A. Wyeth. No. 145,210; July 26; v. 288; p. 817.  
 Bottle-treating machines, fruit treating and canning machinery, carbonating machines, Certain. McKenna Brass & Manufacturing Co. No. 149,591; Dec. 13.  
 Bottles, Glass. Klatscher & Lorenz. No. 140,411; Mar. 15; v. 284; p. 582.  
 Bottles, ice-bags, invalid-cushions, back-rests, &c., Hot-water. Reid Bros. No. 148,520; Nov. 15.  
 Bouillon cubes, vegetable and beef extracts in solid and fluid forms, &c., and mayonnaise salad-dressing. Pure Food Factory "Hansa." No. 148,515; Nov. 15.  
 Boutonniere, badge, insignia, &c. A. B. Guerin. No. 148,424; Nov. 15.  
 Boutonnieres and corsage-bouquets. Millinery Products Company. No. 144,007; June 21; v. 287; p. 581.  
 Box-openers, glass-cutters, nail-pullers, &c. Smith & Hemenway Company. Nos. 144,057-8; June 21; v. 287; p. 582.  
 Boxes. Atlas Box Company. No. 139,475; Feb. 8; v. 283; p. 349.  
 Boxes and cans, Metallic. The Tin Decorating Co. of Baltimore. No. 139,647; Feb. 8; v. 283; p. 354.  
 Boxes and merchandise-bins, Tool and deposit. Fire-Proof Furniture and Construction Company. No. 148,021; Nov. 8.  
 Boxes and packing-cases. 4-One-Box Machine Makers. No. 144,256; June 28; v. 287; p. 776.  
 Boxes and packing-cases, Wooden. T. R. Miller Mill Company. No. 140,287; Mar. 8; v. 284; p. 373.  
 Boxes, Cigar-. State Leaf Tobacco Co. No. 149,510; Dec. 13.  
 Boxes for toilet preparations. S. S. Booty. No. 138,584; Jan. 4; v. 282; p. 185.  
 Boxes, Mailing-. Mason Box Company. No. 147,498; Oct. 18.  
 Boxes, Paper and fiber. Lawrence Paper Manufacturing Company. No. 139,340; Feb. 1; v. 283; p. 170.  
 Boxes, retorts, baskets, and pots. Driver-Harris Company. No. 140,795; Mar. 29; v. 284; p. 943.  
 Boxes, Strawboard. Standard Corrugated Box Co. No. 147,885; Nov. 1.  
 Bracelets, brooches, finger-rings. Goldman-Kolber Co. No. 141,561; Apr. 26; v. 285; p. 780.  
 Braces, extension-shoes, artificial limbs, &c., Deformity-. Chicago Orthopedic Appliance Company. No. 149,359; Dec. 13.  
 Braces for wear, sock and stocking suspenders, &c. J. Patterson, Junr. No. 147,665; Oct. 25.  
 Braid, Sibson & Sterne. No. 144,144; June 21; v. 287; p. 590.  
 Braid, Silk skirt-. Marshall Field & Company. No. 148,157; Nov. 8.  
 Braid for crocheting and knitting. Castle Braid Company. No. 147,952; Nov. 8.  
 Braids and trimmings. A. H. Rice Company. No. 143,440; May 31; v. 286; p. 1052.  
 Brake-lining. J. R. Kelso. No. 143,854; June 14; v. 287; p. 400.  
 Brake-lining, clutch-facings, &c. American Brake-Lining Company. No. 144,336; July 5; v. 288; p. 191.  
 Brake-linings. Raybestos Company. No. 149,795; Dec. 20.  
 Brake-linings and clutch-facings. J. R. Kelso. No. 144,422; July 5; v. 288; p. 193.  
 Brake-shoes. Wheel Truing Brake Shoe Co. No. 142,223; May 3; v. 286; p. 192.  
 Bran, Wheat-. Pillsbury Flour Mills Company. No. 138,917; Jan. 11; v. 282; p. 382.  
 Brassiere. Harry Hollander. No. 142,274; May 10; v. 286; p. 404.  
 Brassieres. Boyshform Brassiere Co. No. 138,754; Jan. 4; v. 282; p. 191.  
 Brassieres. Boyshform Brassiere Co. No. 147,553; Oct. 25.  
 Brassieres. M. R. Davis. No. 147,297; Oct. 11.  
 Brassieres. A. M. Godchaux. No. 140,600; Mar. 22; v. 284; p. 744.  
 Brassieres. Kunstadter Brothers. No. 138,762; Jan. 4; v. 282; p. 192.  
 Brassieres and bandeaux. H & W Company. No. 145,507; Aug. 2; v. 289; p. 184.  
 Brassieres and corsets. A. Zwiebelson. No. 146,528; Sept. 6; v. 290; p. 218.  
 Brassieres, Bandeau-. A. S. Becker. No. 140,551; Mar. 22; v. 284; p. 743.  
 Brassieres, bandeaux, camisoles, &c. Warner Brothers Company. No. 141,011; Mar. 29; v. 284; p. 950.  
 Bread. Cable-Draper Baking Company. No. 145,329; Aug. 2; v. 289; p. 177.  
 Bread. Doctors' Essential Foods Co. No. 147,993; Nov. 8.  
 Bread. Elektrik Maid Bake Shops. No. 147,596; Oct. 25.  
 Bread. Everett, Aughenbaugh & Co. No. 138,963; Jan. 18; v. 282; p. 554.



- Bread. Fargo Bakery Co. No. 140,705; Mar. 22; v. 284; p. 750.
- Bread. G. Gandolfo. No. 147,099; Oct. 4.
- Bread. Great Atlantic and Pacific Tea Company. No. 142,436; May 17; v. 286; p. 624.
- Bread. G. H. Handley. No. 148,067; Nov. 8.
- Bread. E. J. F. Hanson. No. 146,230; Sept. 6; v. 290; p. 199.
- Bread. John J. Nissen Baking Company. No. 139,857; Feb. 22; v. 283; p. 754.
- Bread. P. Keiser. No. 145,393; Aug. 2; v. 289; p. 179.
- Bread. G. O. Kolb. No. 143,659; June 7; v. 287; p. 185.
- Bread. A. Koment. No. 146,793; Sept. 20; v. 290; p. 635.
- Bread. Liberty Baking Company. No. 141,404; Apr. 19; v. 285; p. 568.
- Bread. G. E. Lindblom. No. 145,565; Aug. 9; v. 289; p. 408.
- Bread. National Baking Company. No. 150,022; Dec. 27.
- Bread. Northwestern Distributing Co. No. 149,189; Dec. 6.
- Bread. Ogden Baking Company. No. 144,908; July 19; v. 288; p. 622.
- Bread. Papendick Bakery Company. No. 138,690; Jan. 4; v. 282; p. 189.
- Bread. Papendick Bakery Co. No. 142,890; May 17; v. 286; p. 640.
- Bread. Schafer Bakery. No. 142,897; May 17; v. 286; p. 641.
- Bread. Specialty Baking Co. No. 143,264; May 24; v. 286; p. 858.
- Bread. L. Stern. No. 140,443; Mar. 15; v. 284; p. 583.
- Bread. C. M. Thompson. No. 138,721; Jan. 4; v. 282; p. 190.
- Bread. Ward Baking Company. No. 138,735; Jan. 4; v. 282; p. 190.
- Bread. Ward Baking Company. Nos. 141,009-10; Mar. 29; v. 284; p. 950.
- Bread. Ward Baking Company. No. 141,460; Apr. 19; v. 285; p. 569.
- Bread. Ward Baking Company. No. 141,713; Apr. 26; v. 285; p. 784.
- Bread. Ward Baking Company. No. 143,216; May 24; v. 286; p. 852.
- Bread. Ward Baking Company. No. 146,619; Sept. 13; v. 290; p. 423.
- Bread. Ward Baking Company. No. 150,163; Dec. 27.
- Bread. Zinsmaster Baking Company. No. 143,281; May 24; v. 286; p. 853.
- Bread and cake. Memphis Bread Company. No. 144,607; July 12; v. 288; p. 425.
- Bread and cake. Ward Bros. Co. No. 139,048; Jan. 18; v. 282; p. 556.
- Bread and cake. Ward Bros. Co. No. 141,303; Apr. 12; v. 285; p. 389.
- Bread and rolls. Campbell Baking Company. No. 145,500; Aug. 2; v. 289; p. 184.
- Bread and rolls, cakes, and pastry, wheat. Frank L. Hall Co. No. 149,094; Dec. 6.
- Bread, biscuits, and cakes. H. Stahl. No. 150,120; Dec. 27.
- Bread, cake, pastries. M. H. Wildstein. No. 144,977; July 19; v. 288; p. 624.
- Bread, candies, coffees, teas, &c. Donahoe's Inc. No. 143,240; May 24; v. 286; p. 855.
- Bread, &c., ingredient used in the manufacture of. Ward Baking Company. No. 147,826; Nov. 1.
- Bread, rolls, pies, cakes, pastry. H. Gertner. No. 139,076; Jan. 18; v. 282; p. 558.
- Bread, rye. A. S. Beville. No. 147,477; Oct. 18.
- Bread, salt-rising. J. L. Skelton. No. 139,627; Feb. 8; v. 283; p. 353.
- Brew. Material for home. Schrumm-Schrumm Co. No. 146,352; Sept. 6; v. 290; p. 203.
- Brick, building-block, &c. Wert Manufacturing Company. No. 145,296; July 26; v. 288; p. 826.
- Bricks. Chicago Fire Brick Co. No. 138,900; Jan. 11; v. 282; p. 380.
- Bricks and building-blocks. Summitville Clay Products Co. No. 143,484; May 31; v. 286; p. 1053.
- Bricks and drainage-tiles. Acme Brick Company. No. 149,811; Dec. 27.
- Bricks and tile. Fire. Laclède-Christy Clay Products Company. No. 142,000; May 3; v. 286; p. 186.
- Bricks and tile. Fire. Laclède-Christy Clay Products Company. No. 144,827; July 19; v. 288; p. 619.
- Bricks and tiles. Fire. Laclède-Christy Clay Products Company. No. 139,954; Feb. 22; v. 283; p. 760.
- Bricks, blocks, slabs. International Cork Company. No. 138,645; Jan. 4; v. 282; p. 187.
- Bricks, refractory. National Carbon Company. No. 138,679; Jan. 4; v. 282; p. 188.
- Bricks, refractory. Seaboard Refractories Company. No. 145,221; July 26; v. 288; p. 817.
- Bricks, refractory. Seaboard Refractories Company. No. 147,734; Oct. 25.
- Bridles, saddle-pockets, &c. Simmons Hardware Company. No. 143,470; May 31; v. 286; p. 1053.
- Brief-cases, music-rolls, portfolios. Lifton Mfg. Co. No. 144,193; June 28; v. 287; p. 774.
- Brilliantine, face powder and lotion. M. M. R. Vve. Grenoville. No. 149,085; Dec. 6.
- Brilliantine, face-powder, toilet water, &c. Cheramy, Incorporated. No. 146,966; Sept. 27; v. 290; p. 803.
- Briquets made from coal. International Coal Products Corporation. Nos. 147,624-5; Oct. 25.
- Bristling and sild. Overseas Export Co. Nos. 141,191-2; Apr. 12; v. 285; p. 383.
- Bristling and sild (sardines). Overseas Export Co. No. 142,685; May 17; v. 286; p. 631.
- Bristles. Chesnutt, Cooper & Co. No. 149,650; Dec. 20.
- Bristol-board. J. W. Butler Paper Co. No. 142,189; May 3; v. 286; p. 192.
- Bristol-board. J. W. Butler Paper Company. Nos. 142,192-3; May 3; v. 286; p. 192.
- Bristol-board. J. W. Butler Paper Company. No. 142,195; May 3; v. 286; p. 192.
- Bristol-board. J. W. Butler Paper Company. No. 142,860; May 17; v. 286; p. 638.
- Bristol-board. J. W. Butler Paper Company. No. 145,055; July 26; v. 288; p. 812.
- Bristol-boards. Whiting Paper Company. No. 144,974; July 19; v. 288; p. 624.
- Bronze and castings made from bronze, Bulk. American Manganese Bronze Company. No. 144,160; June 28; v. 287; p. 773.
- Bronze bars, Cored and solid. Lumen Bearing Company. No. 141,767; Apr. 26; v. 285; p. 789.
- Brooms. Griffin Broom Company. No. 148,332; Nov. 8.
- Brooms. Harris Broom Company. No. 142,558; May 17; v. 286; p. 627.
- Brooms. Kansas City Broom Company. No. 142,647; May 17; v. 286; p. 630.
- Brooms. Morey Mercantile Company. Nos. 139,353-4; Feb. 1; v. 283; p. 170.
- Brooms. Phillips & Carr, a copartnership. No. 139,187; Jan. 25; v. 282; p. 735.
- Brooms. Richmond Broom Company. No. 150,077; Dec. 27.
- Brooms. M. G. Scoville Sons Company. Nos. 139,197-203; Jan. 35; v. 282; pp. 735-6.
- Brooms. M. G. Scoville Sons Company. No. 139,384; Feb. 1; v. 283; p. 171.
- Brooms. M. G. Scoville Sons Company. No. 139,385; Feb. 1; v. 283; p. 171.
- Brooms. Truby Broom Mfg. Co. No. 146,893; Sept. 20; v. 290; p. 638.
- Brooms, dusters, brushes, &c. New York Association for the Blind. No. 139,179; Jan. 25; v. 282; p. 735.
- Brooms for applying stucco. M. P. Andrews. No. 148,781; Nov. 29.
- Brooms, Whisk-, manufactured of palmetto fiber. Standard Manufacturing Company. No. 139,214; Jan. 25; v. 282; p. 736.
- Brushes. Geo. R. Gibson Co. No. 138,903; Jan. 11; v. 282; p. 380.
- Brushes. Pittsburgh Plate Glass Company, Rennous-Kleinle Division. Nos. 148,597-8; Nov. 15.
- Brushes. Western Bottle Manufacturing Company. No. 143,510; May 31; v. 286; p. 1054.
- Brushes and brush-holders therefor, Dynamo and electric-motor. Robert Harding. No. 148,581; Nov. 15.
- Brushes and mops. Simmons Hardware Company. No. 141,807; Apr. 26; v. 285; p. 793.
- Brushes and oil, water, and dust separators, Paint air. B. E. Holton Company. No. 140,832; Mar. 29; v. 284; p. 944.
- Brushes and painters' dusters, Paint. United Brush Manufacturing. No. 142,802; May 17; v. 286; p. 635.
- Brushes and whisk-brooms, Toilet and paint. Celluloid Company. Nos. 148,733-4; Nov. 15.
- Brushes, Cloth, bonnet, hat, and hair. Samstag & Hilder Bros. No. 148,249; Nov. 8.
- Brushes, Dust-. Woven Down Duster Company. No. 149,558; Dec. 13.
- Brushes, Floor-. W. N. Lewis. No. 148,334; Nov. 8.
- Brushes for bottle-washing machines. S. S. Wenzell Machine Company. No. 141,052; Mar. 29; v. 284; p. 954.
- Brushes, Hair, clothes, tooth, and nail. Fiberloid Corporation. No. 146,734; Sept. 20; v. 290; p. 633.
- Brushes, Lather-. Florence Manufacturing Company. No. 141,745; Apr. 26; v. 285; p. 787.
- Brushes, Lather-. Hardright Company. Nos. 149,400-3; Dec. 13.
- Brushes, Paint-. James B. Day & Co. No. 146,724; Sept. 20; v. 290; p. 633.
- Brushes, Shaving-. American Safeteesoap Corporation. No. 142,422; May 17; v. 286; p. 623.
- Brushes, Shaving-. Geo. R. Gibson Co. No. 148,413; Nov. 15.
- Brushes, Shaving-. The James L. Erskine Co. No. 148,575; Nov. 15.
- Brushes, Shaving-. Thomas W. Culmer and Sons. No. 142,972; May 24; v. 286; p. 845.
- Brushes, spray painting apparatus operated by compressed air, &c., Air-Aerograph Company. No. 139,235; Feb. 1; v. 283; p. 167.
- Brushes, Stencil fountain-. I. C. Wright. No. 139,438; Feb. 1; v. 283; p. 173.
- Brushes, Tooth, hair, nail, and face. Western Bottle Manufacturing Company. No. 144,295; June 28; v. 287; p. 777.
- Buckets, Metal well-. Hemp & Co. No. 140,826; Mar. 29; v. 284; p. 944.



*Alphabetical list of trade-marks—Continued.*

- Buckles, Belt-. H. Grossman. No. 143,960; June 21; v. 287; p. 579.
- Buckles, Cut-steel. Kescot Manufacturing Company. No. 147,343; Oct. 11.
- Buckles made of base metal, Belt-. S. Buchsbaum. No. 141,880; May 3; v. 286; p. 183.
- Building blocks. F. A. Noullet. No. 148,189; Nov. 8.
- Building blocks and slabs. Pre-Cast Products Co. No. 143,432; May 31; v. 286; p. 1052.
- Building material. Manasota Lumber Corporation. No. 138,665; Jan. 4; v. 282; p. 188.
- Building material. Newport Rolling Mill Co. No. 138,681; Jan. 4; v. 282; p. 188.
- Building material. Wheeling Corrugating Company. No. 145,486; Aug. 2; v. 289; p. 182.
- Building materials. Gypsos Corporation. No. 141,952; May 3; v. 286; p. 185.
- Building structures, Metallic. Milliken Brothers Mfg. Co. No. 140,048; Mar. 1; v. 284; p. 177.
- Building wall and partition panels. J. A. Birkholz. No. 145,608; Aug. 16; v. 289; p. 591.
- Buildings. Alexander Lumber Company. No. 140,067; Mar. 8; v. 284; p. 363.
- Buildings and assembled units thereof, Portable and stationary. J. Anderson. No. 144,986; July 19; v. 288; p. 625.
- Buildings and partially-fabricated parts thereof. Arthur B. Shepard Company. No. 144,930; July 19; v. 288; p. 622.
- Bulbs, plants, seed. M. Veldhuyzen van Zanten & Zonen. No. 146,617; Sept. 13; v. 290; p. 423.
- Bulletins, Weekly. R. Rose. No. 139,195; Jan. 25; v. 282; p. 735.
- Bumpers Automobile-. Ramspring Bumper Co. No. 149,209; Dec. 6.
- Bumpers, creepers, steering-wheels, &c. Badger Manufacturing Corporation. No. 145,036; July 26; v. 288; p. 811.
- Bun-tins, aluminum saucepans, and stew-pans. F. P. Matthews. No. 147,639; Oct. 25.
- Bungalows and houses. Built-up. A. C. Tuxbury Lumber Co. No. 143,269; May 24; v. 286; p. 859.
- Bureau and table scarfs, blankets, mats, &c. F. A. Patrick & Co. No. 145,433; Aug. 2; v. 289; p. 181.
- Burlap. Marshall Field & Company. No. 141,293; Apr. 12; v. 285; p. 388.
- Burlap. Marshall Field & Company. No. 144,001; June 21; v. 287; p. 581.
- Burner-tips for gas-lamps. Universal Lamp Co. No. 143,500; May 31; v. 286; p. 1054.
- Burners, coal heating-stoves, &c. Gas and oil. National Supply Company. No. 141,185; Apr. 12; v. 285; p. 382.
- Burners, furnaces, forges, ovens, and torches. Anthony Company. No. 146,631; Sept. 13; v. 290; p. 425.
- Burners, Oil and gas. Oliver Oil-Gas Burner & Machine Co. No. 147,242; Oct. 4.
- Burners, Oil and gas. Oliver Oil-Gas Burner & Machine Co. No. 147,662; Oct. 25.
- Burning-in machines. Danielson Tool Company. No. 140,359; Mar. 15; v. 284; p. 580.
- Burning-lead molds. American Bureau of Engineering. No. 144,335; July 5; v. 288; p. 191.
- Bushings. Oregon Brass Works. No. 143,125; May 24; v. 286; p. 849.
- Bushings for machine-tools. Wright-Fisher Bushing Corporation. No. 143,779; June 7; v. 287; p. 188.
- Butter. American Butter Co. No. 138,933; Jan. 18; v. 282; p. 553.
- Butter. Debow & Co. No. 140,787; Mar. 29; v. 284; p. 943.
- Butter. M. M. Gasser Co. No. 148,579; Nov. 15.
- Butter. Golden and Company. No. 139,542; Feb. 8; v. 283; p. 351.
- Butter. Harding Cream Company. No. 140,039; Mar. 1; v. 284; p. 176.
- Butter. F. Hurwitz. No. 143,051; May 24; v. 286; p. 847.
- Butter. Iowa Grain & Produce Co. No. 143,652; June 7; v. 287; p. 184.
- Butter. E. Kent. No. 146,271; Sept. 6; v. 290; p. 200.
- Butter. Nashville Pure Milk Company. No. 147,240; Oct. 4.
- Butter. Ohio Creamery Company. No. 142,312; May 10; v. 286; p. 405.
- Butter. Pendleton Creamery Company. No. 140,927; Mar. 29; v. 284; p. 947.
- Butter. J. A. Seeds, Jr. No. 143,744; June 7; v. 287; p. 187.
- Butter. Shasta Creamery Company. No. 144,669; July 12; v. 288; p. 429.
- Butter. M. Wildstein. No. 142,174; May 3; v. 286; p. 192.
- Butter. L. Wisansky. No. 143,514; May 31; v. 286; p. 1054.
- Butter and eggs. Detroit Beef Company. No. 149,660; Dec. 20.
- Butter and cheese. F. Hurwitz. No. 142,878; May 17; v. 286; p. 639.
- Butter and eggs. Morris & Company. No. 144,667; July 12; v. 288; p. 428.
- Butter, eggs, and poultry. Tatham and Company. No. 149,257; Dec. 6.
- Butter, eggs, cheese, &c. Sherman White & Company. No. 141,226; Apr. 12; v. 285; p. 384.
- Butter, eggs, cream. Pioneer Creamery Co. No. 148,705; Nov. 22.
- Butter, margarin, &c. B. S. Pearsall Butter Co. No. No. 146,548; Sept. 6; v. 290; p. 220.
- Butter-mixers, &c. Sanitary Novelty Company. No. 148,251; Nov. 8.
- Butter, Pure creamery. Raton Creamery Company. No. 144,897; July 19; v. 288; p. 621.
- Butter substitute. Ohio Dairy Co. No. 142,681; May 17; v. 286; p. 631.
- Butter-scotch. Page & Shaw. No. 145,429; Aug. 2; v. 289; p. 181.
- Buttermilk, Condensed. Commercial Creamery Co. No. 149,889; Dec. 27.
- Buttermilk, Powdered. Collis Products Company. No. 149,363; Dec. 13.
- Button fasteners, Three-pronged. Heaton-Peninsular Button Fastener Co. No. 138,639; Jan. 4; v. 282; p. 187.
- Button-fasteners, Metallic. Heaton-Peninsular Button Fastener Company. No. 143,974; June 21; v. 287; p. 580.
- Buttons. C. L. Heimbruch. No. 144,794; July 19; v. 288; p. 618.
- Buttons. Morley Button Manufacturing Company. No. 144,010; June 21; v. 287; p. 581.
- Buttons. National Ring Traveler Co. No. 139,014; Jan. 18; v. 282; p. 555.
- Buttons. National Ring Traveler Co. No. 139,016; Jan. 18; v. 282; p. 555.
- Buttons. H. Opitz. No. 139,362; Feb. 1; v. 283; p. 171.
- Buttons and attaching-thread, Outfit consisting of garment-. Wenck & Co. No. 138,737; Jan. 4; v. 282; p. 190.
- Buttons and buttons for dresses, clothing, &c. Shoe-. Wenck & Co. No. 138,738; Jan. 4; v. 282; p. 190.
- Buttons and links. Cuff. S. B. Kahn. No. 145,971; Aug. 23; v. 289; p. 788.
- Buttons, Collar and cuff. H. Guttman. No. 139,141; Jan. 25; v. 282; p. 734.
- Buttons, Cuff-. Baer & Wilde Company. No. 141,730; Apr. 26; v. 285; p. 785.
- Buttons, Cuff-. Baer & Wilde Co. No. 149,753; Dec. 20.
- Buttons for shoes and clothing. National Ring Traveler Co. No. 138,680; Jan. 4; v. 282; p. 188.
- Buttons of all kinds except those made of precious metal. Accolite Mfg. Co. No. 138,768; Jan. 11; v. 282; p. 375.
- Buttons, Shoe and clothing. National Ring Traveler Co. No. 139,358; Feb. 1; v. 283; p. 170.
- Buttons, Shoe and clothing. National Ring Traveler Co. No. 142,635; May 17; v. 286; p. 630.
- Cabinet, Garment-. M. L. Himmel & Son. No. 146,034; Aug. 23; v. 289; p. 792.
- Cabinets and desks. Steel filing. Metal Office Furniture Co. No. 145,512; Aug. 2; v. 289; p. 185.
- Cabinets, baby bassinets, cribs, children's dresses, &c. Medicine-. Glass Novelty Company. No. 144,237; June 28; v. 287; p. 775.
- Cabinets for records for sound-reproducing machines. Crippen Record File Corporation. No. 142,483; May 17; v. 286; p. 625.
- Cabinets, Kitchen-. Marsh Furniture Company. No. 142,608; May 17; v. 286; p. 629.
- Cabinets, Steel filing-. Bergmann Mfg. Co. No. 145,252; July 26; v. 288; p. 820.
- Cabinets, Urinalysis. Du Bois Laboratories. No. 149,903; Dec. 27.
- Cables, Insulated electric. L. W. Woolston. No. 139,915; Feb. 22; v. 283; p. 756.
- Cake. M. Rosenthal. No. 145,448; Aug. 2; v. 289; p. 181.
- Cake. Ward Baking Company. No. 139,661; Feb. 8; v. 283; p. 354.
- Cake. Ward Baking Company. No. 149,540; Dec. 13.
- Cake. Ward Baking Company. No. 150,164; Dec. 27.
- Cake for children. E. D. Watkins. No. 146,908; Sept. 20; v. 290; p. 638.
- Cake, Fruit-. Nut Crystal Company. No. 140,505; Mar. 15; v. 284; p. 585.
- Cake, Loaf-. Grocers Baking Company. No. 149,935; Dec. 27.
- Cake, wafers, pancake-flour. Diamond Pure Food Company. No. 146,726; Sept. 20; v. 290; p. 633.
- Cake with filler of sugar, cream, Sandwich-. Perfection Biscuit Company. No. 148,209; Nov. 8.
- Cakes. Colonial Biscuit Company. No. 146,971; Sept. 27; v. 290; p. 804.
- Cakes. Grennan Cake Corporation. No. 141,130; Apr. 12; v. 285; p. 381.
- Cakes. Item Biscuit Co. No. 146,264; Sept. 6; v. 290; p. 200.
- Cakes. Loose-Wiles Biscuit Company. No. 143,074; May 24; v. 286; p. 848.
- Cakes, bread, &c. S. A. Reeves. No. 138,920; Jan. 11; v. 282; p. 382.
- Cakes, cookies, and fried cakes. Grennan Cake Corporation. No. 141,566; Apr. 26; v. 285; p. 780.
- Cakes, crackers, and biscuits. Loose-Wiles Biscuit Company. No. 141,596; Apr. 26; v. 285; p. 781.
- Cakes, crackers, and biscuits. Loose-Wiles Biscuit Company. No. 147,789; Nov. 1.



*Alphabetical list of trade-marks—Continued.*

- Cakes in animal shapes. P. I. Jacoby. No. 147,859; Nov. 1.
- Cakes, Sugar. G. N. Mindling. No. 144,610; July 12; v. 288; p. 425.
- Calcareous composition for soil improvement. Security Cement & Lime Co. No. 149,732; Dec. 20.
- Calimine. The Reardon Company. No. 139,612; Feb. 8; v. 283; p. 353.
- Calimine. The Reardon Company. No. 142,722; May 17; v. 286; p. 632.
- Calimine compounds. Riches, Piver & Co. No. 146,840; Sept. 20; v. 290; p. 636.
- Calcium cyanamid, Lump. P. W. Shimer. No. 143,168; May 24; v. 286; p. 851.
- Calculating-machines. Marchant Calculating Machine Company. No. 149,592; Dec. 13.
- Calculating-machines. Rockford Milling Machine Company. No. 149,610; Dec. 13.
- Calculators, Pay-roll. Meilicke Calculator Company. No. 144,133; June 21; v. 287; p. 588.
- Calendar. O. G. Oglevee. No. 139,860; Feb. 22; v. 283; p. 754.
- Calender stock-shells. W. F. Gammeter Company. No. 147,604; Oct. 25.
- Calendars, greeting-cards, mottoes, Art. Brown & Bigelow. No. 147,758; Nov. 1.
- Calfskin, kid, &c., Finished. G. A. Georgopulo & Co. No. 139,986; Mar. 1; v. 284; p. 173.
- Calipers and dividers and combination-squares for measuring purposes, measuring-tapes, and rules. Consolidated Tool Works Inc. No. 141,341; Apr. 19; v. 285; p. 666.
- Calisaya and pepsin compound. William S. Merrell Company. No. 142,038; May 3; v. 286; p. 187.
- Cam-shafts. Muskegon Motor Specialties Company. No. 143,257; May 24; v. 286; p. 857.
- Cambric muslin in the piece. Marshall Field & Company. No. 145,410; Aug. 2; v. 289; p. 180.
- Cambrics in the piece. Berkeley Company. No. 149,839; Dec. 27.
- Cambrics in the piece. Rice-Stix Dry Goods Company. No. 143,730; June 7; v. 287; p. 187.
- Camera-lenses. Hanovia Chemical and Manufacturing Company. No. 145,377; Aug. 2; v. 289; p. 179.
- Cameras, combined motion-picture cameras and projectors, &c., Motion-picture. E. Pontin. No. 144,027; June 21; v. 287; p. 581.
- Cameras. Super Reflex Company. No. 142,786; May 17; v. 286; p. 634.
- Camisoles, brassieres, chemises, bloomers, &c. I. Rothkowitz. No. 140,530; Mar. 15; v. 284; p. 585.
- Camphor. Spirits of. Wolfe-Farrer Co. No. 150,184; Dec. 27.
- Camphor substitute. Commonwealth Chemical Corp. No. 138,797; Jan. 11; v. 282; p. 376.
- Canary-seeds, Mixed. E. Bernstein. No. 147,546; Oct. 25.
- Can-openers, apple-corers, cake-turners, &c. Rockford Metal Specialty Company. No. 144,462; July 5; v. 288; p. 195.
- Cans and pails, Sheet-metal. Shalita Bros. No. 149,502; Dec. 13.
- Cans, tool-boxes, water-pails, Ash, gasoline, garbage, and oil. Banister & Pollard Co. No. 145,247; July 26; v. 288; p. 820.
- Canned and bottled honey and boxes of honeycomb. H. M. Fox. No. 149,383; Dec. 13.
- Canned and preserved fruits. G. E. Hyde. No. 145,696; Aug. 16; v. 289; p. 594.
- Canned berries and fruit. R. T. Carpp. No. 148,243; Nov. 8.
- Canned blackberries, sweet peas, tomatoes, &c. H. L. Phillips. No. 139,603; Feb. 8; v. 283; p. 353.
- Canned bonita and yellowtail. Seacoast Canning Co. No. 140,964; Mar. 29; v. 284; p. 948.
- Canned corn. Warrensburg Canning Company. No. 145,481; Aug. 2; v. 289; p. 182.
- Canned chilli-con-carne and hot tamales. Walker Properties Associations. No. 146,522; Sept. 6; v. 290; p. 217.
- Canned chilli-con-carne, red beans, and beans and pork. J. A. Gage. No. 139,716; Feb. 15; v. 283; p. 541.
- Canned cultured milk. E. Willadsen. No. 145,206; July 26; v. 288; p. 816.
- Canned fish. A/S Trondhjem Canning and Export Co. No. 148,283; Nov. 8.
- Canned fish. Chlnook Packing Co. No. 142,471; May 17; v. 286; p. 625.
- Canned fish. C. M. Everitt & J. P. Todd, Inc. No. 141,544; Apr. 26; v. 285; p. 779.
- Canned fish. J. V. Giaconi & Co. No. 149,928; Dec. 27.
- Canned fish. Great Western Packing Co. No. 141,564; Apr. 26; v. 285; p. 780.
- Canned fish. L. N. Jackson & Company. No. 141,149; Apr. 12; v. 285; p. 381.
- Canned fish. Johnson-Locke Mercantile Co. No. 142,592; May 17; v. 286; p. 628.
- Canned fish. Sun Harbor Packing Corporation. No. 138,717; Jan. 4; v. 282; p. 189.
- Canned fish. Thlinket Packing Corporation. Nos. 141,058-62; Apr. 5; v. 285; p. 187.
- Canned fish. Thlinket Packing Corporation. No. 141,695; Apr. 26; v. 285; p. 783.
- Canned fish and berries. Bryant & Company. No. 146,959; Sept. 20; v. 290; p. 803.
- Canned fish and other sea-food products. Marine Products Company. No. 140,169; Mar. 8; v. 284; p. 366.
- Canned fish, dried beans, salt fish, &c. H. M. Newhall & Co. No. 139,017; Jan. 18; v. 282; p. 555.
- Canned fish, fruits, and vegetables. R. H. Hunter. No. 139,996; Mar. 1; v. 284; p. 174.
- Canned food products. Austin, Nichols & Company. No. 146,168; Sept. 16; v. 290; p. 197.
- Canned foods and fruit jams. Kay-Maling Co. No. 144,629; July 12; v. 288; p. 425.
- Canned, fresh and dried fruits. Garcla & Maggini Co. No. 142,542; May 17; v. 286; p. 627.
- Canned fruit. J. C. Ainsley Packing Co. No. 146,666; Sept. 20; v. 290; p. 631.
- Canned fruit and vegetables. Bradt & Beebe. No. 143,559; June 7; v. 287; p. 182.
- Canned fruit, berries, and vegetables. California Packing Corporation. No. 146,192; Sept. 6; v. 290; p. 198.
- Canned fruits. Acme Packing Co. No. 139,234; Feb. 1; v. 283; p. 167.
- Canned fruits. J. C. Ainsley Packing Co. No. 141,468; Apr. 26; v. 285; p. 777.
- Canned fruits. A. O. Andersen & Co. Nos. 141,478-80; Apr. 26; v. 285; p. 777.
- Canned fruits. A. O. Andersen & Co. No. 141,844; May 3; v. 286; p. 181.
- Canned fruits. California Sanitary Canning Co. No. 139,260; Feb. 1; v. 283; p. 167.
- Canned fruits. California Sanitary Canning Co. No. 139,496; Feb. 8; v. 283; p. 349.
- Canned fruits. Hood River Canning Company. No. 141,387; Apr. 19; v. 285; p. 567.
- Canned fruits. Kauai Fruit & Land Co. No. 138,650; Jan. 4; v. 282; p. 187.
- Canned fruits. Pauwela Pineapple Company. Nos. 138,693-5; Jan. 4; v. 282; p. 189.
- Canned fruits. Pauwela Pineapple Company. No. 139,601; Feb. 8; v. 283; p. 353.
- Canned fruits. Pauwela Pineapple Company. Nos. 140,513-14; Mar. 15; v. 284; p. 585.
- Canned fruits. Reedley Canning Co. Nos. 143,724-6; June 7; v. 287; p. 187.
- Canned fruits. Reedley Canning Co. Nos. 145,793-4; Aug. 16; v. 289; p. 597.
- Canned fruits. Richmond Chase Company. No. 145,578; Aug. 9; v. 289; p. 408.
- Canned fruits. Smith-Frank Packing Co. Nos. 144,937-8; July 19; v. 288; p. 623.
- Canned fruits and berries, &c. Brownsville Canning Co. No. 145,542; Aug. 9; v. 289; p. 407.
- Canned fruits and fruit salad, &c. Smith-Frank Packing Co. No. 147,035; Sept. 27; v. 290; p. 806.
- Canned fruits and grapes. Pratt-Low Preserving Company. No. 143,263; May 24; v. 286; p. 858.
- Canned fruits and pork and beans and fruit preserves. California Food Specialties Co. No. 146,436; Sept. 6; v. 290; p. 208.
- Canned fruits and salmon. M. Schuckl. No. 146,353; Sept. 6; v. 290; p. 203.
- Canned fruits and tomatoes. Colorado Packing Corporation. No. 141,340; Apr. 19; v. 285; p. 566.
- Canned fruits and vegetables. H. A. Baker, Inc. No. 142,926; May 24; v. 286; p. 843.
- Canned fruits and vegetables. H. A. Baker, Inc. No. 143,547; June 7; v. 287; p. 181.
- Canned fruits and vegetables. H. A. Baker, Inc. No. 146,947; Sept. 27; v. 290; p. 803.
- Canned fruits and vegetables. Bayside Canning Co. Nos. 141,488-9; Apr. 26; v. 285; p. 777.
- Canned fruits and vegetables. Bisceglia Brothers. No. 138,946; Jan. 18; v. 282; p. 553.
- Canned fruits and vegetables. W. N. Clark Co. No. 144,736; July 19; v. 288; p. 616.
- Canned fruits and vegetables. California Co-Operative Canneries. No. 141,089; Apr. 12; v. 285; p. 379.
- Canned fruits and vegetables. California Co-Operative Canneries. No. 145,545; Aug. 9; v. 289; p. 407.
- Canned fruits and vegetables. California Growers Association. No. 139,067; Jan. 18; v. 282; p. 557.
- Canned fruits and vegetables. California Growers Association. Nos. 140,261-2; Mar. 8; v. 284; p. 370.
- Canned fruits and vegetables. California Growers Association. Nos. 141,504-6; Apr. 26; v. 285; p. 778.
- Canned fruits and vegetables. California Growers Association. No. 142,245; May 10; v. 286; p. 403.
- Canned fruits and vegetables. California Growers Association. No. 143,790; June 7; v. 287; p. 190.
- Canned fruits and vegetables. Fillice & Perrelli Canning Co. No. 140,122; Mar. 8; v. 284; p. 364.
- Canned fruits and vegetables. Fillice & Perrelli Canning Co. No. 147,485; Oct. 18.
- Canned fruits and vegetables. Gibbs Preserving Company. No. 140,390; Mar. 15; v. 284; p. 581.
- Canned fruits and vegetables. Geo. Marsh Company. No. 145,277; July 26; v. 288; p. 823.
- Canned fruits and vegetables. Herbert Packing Co. No. 143,040; May 24; v. 286; p. 847.
- Canned fruits and vegetables. E. Kirsten. No. 142,658; May 17; v. 286; p. 630.
- Canned fruits and vegetables. E. Kirsten. No. 143,111; Nov. 8.
- Canned fruits and vegetables. Lake Odessa Canning Co. No. 144,324; June 28; v. 287; p. 781.



## Alphabetical list of trade-marks—Continued.

- Canned fruits and vegetables. Richmond-Chase Company. No. 140,197; Mar. 8; v. 284; p. 367.
- Canned fruits and vegetables. San Benito County Canning Co. No. 143,161; May 24; v. 286; p. 851.
- Canned fruits and vegetables. San Benito County Canning Co. No. 145,450; Aug. 2; v. 289; p. 181.
- Canned fruits and vegetables. M. Schuckl. No. 144,330; June 28; v. 287; p. 782.
- Canned fruits and vegetables. M. Schuckl. No. 146,866; Sept. 20; v. 290; p. 637.
- Canned fruits and vegetables. M. Schuckl. No. 150,103; Dec. 27.
- Canned fruits and vegetables. Talbot Packing & Preserving Co. No. 143,755; June 7; v. 287; p. 187.
- Canned fruits and vegetables. Thomas-Body Company. No. 144,951; July 19; v. 288; p. 623.
- Canned fruits and vegetables. Thomas-Body Company. No. 145,232; July 26; v. 288; p. 817.
- Canned fruits and vegetables. Thomas-Body Company. No. 146,377; Sept. 6; v. 290; p. 203.
- Canned fruits and vegetables. Thomas-Body Company. No. 148,282; Nov. 5.
- Canned fruits and vegetables. Thomas J. Myer & Co. No. 141,620; Apr. 26; v. 285; p. 781.
- Canned fruits and vegetables, and olives. California Growers Association, Inc. No. 148,793; Nov. 29.
- Canned fruits and vegetables, condiments, coffee. Peyton-Palmer Co. No. 146,838; Sept. 20; v. 290; p. 636.
- Canned fruits and vegetables, fruit preserves. Croker Packing Co. No. 148,808; Nov. 29.
- Canned fruits, berries, and vegetables. H. A. Baker, Inc. No. 141,315; Apr. 19; v. 285; p. 565.
- Canned fruits, fish, vegetables, and milk. Bech, Van Sieten & Co. No. 138,576; Jan. 4; v. 282; p. 185.
- Canned fruits, vegetables, and fish. R. E. Cotter Company. No. 141,103; Apr. 12; v. 285; p. 380.
- Canned fruits, vegetables, and fish. Ranney-Davis Mercantile Company. No. 146,597; Sept. 13; v. 290; p. 422.
- Canned fruits, vegetables, and fish, coffee, spices. Guyer & Calkins Co. No. 141,568; Apr. 26; v. 285; p. 780.
- Canned fruits, vegetables, and fish, fruit preserves, &c. Geo. M. Ryrie Company. No. 144,902; July 19; v. 288; p. 622.
- Canned fruits, vegetables, and grapes. Pratt-Low Preserving Company. Nos. 141,800-1; Apr. 26; v. 285; p. 792.
- Canned fruits, vegetables, &c., and wheat-flour. Bech, Van Sieten & Co. No. 145,321; Aug. 2; v. 289; p. 177.
- Canned fruits, vegetables, berries, and olives. Golden State Canneries. No. 143,245; May 24; v. 286; p. 856.
- Canned fruits, vegetables, fish, &c. Bon I. Look Stores Company. No. 144,429; July 5; v. 288; p. 194.
- Canned fruits, vegetables, soups, tea, coffee, &c. Johnson Educator Food Co. No. 145,391; Aug. 2; v. 289; p. 179.
- Canned goods. California Packing Corporation. No. 139,259; Feb. 1; v. 283; p. 167.
- Canned goods. Gilmer's Incorporated. No. 143,614; June 7; v. 287; p. 183.
- Canned goods, catsup, pickles, &c. C. I. Cook. No. 146,446; Sept. 6; v. 290; p. 209.
- Canned goods, fish, teas, coffees. H. T. Quinlan & Company. No. 141,210; Apr. 12; v. 285; p. 383.
- Canned grapefruit. Spanish American Fruit Co. No. 149,615; Dec. 13.
- Canned oysters and oysters in their natural state. J. & J. W. Elsworth Co. No. 140,704; Mar. 22; v. 284; p. 750.
- Canned peaches, pears, apricots, &c. Acme Packing Co. No. 139,748; Feb. 22; v. 283; p. 751.
- Canned pears and tomatoes, oranges, &c. California Vegetable Union, Inc. No. 149,865; Dec. 27.
- Canned, pickled, or dried fish. Gowan-Lenning-Brown Co. No. 146,989; Sept. 27; v. 290; p. 804.
- Canned pork and beans. Grimes Canning & Preserving Company. No. 143,029; May 24; v. 286; p. 846.
- Canned prawns and oysters. Glynn Canning Company. No. 139,452; Feb. 1; v. 283; p. 175.
- Canned salmon. Izzard Company. No. 148,095; Nov. 8.
- Canned salmon. Thilinket Packing Company. No. 143,196; May 24; v. 286; p. 852.
- Canned salmon and herring. The Alaska Salmon & Herring Packers. No. 145,590; Aug. 16; v. 289; p. 591.
- Canned sardines. Booth Fisheries Sardine Co. No. 138,947; Jan. 18; v. 282; p. 553.
- Canned sardines. Booth Fisheries Sardine Company. No. 142,938; May 24; v. 286; p. 844.
- Canned sardines. Booth Fisheries Sardine Company. No. 145,324; Aug. 2; v. 289; p. 177.
- Canned sardines. Seacoast Canning Co. Nos. 139,204-5; Jan. 25; v. 282; p. 736.
- Canned sardines. Seacoast Canning Co. No. 139,207; Jan. 25; v. 282; p. 736.
- Canned sardines. Seacoast Canning Co. Nos. 139,386-7; Feb. 1; v. 283; p. 171.
- Canned sardines. Seacoast Canning Co. No. 140,207; Mar. 8; v. 284; p. 367.
- Canned sardines. Seacoast Canning Co. No. 145,809; Aug. 16; v. 289; p. 597.
- Canned sardines. Seacoast Canning Co. No. 148,532; Nov. 15.
- Canned sardines and tuna fish. Seacoast Canning Co. No. 139,882; Feb. 22; v. 283; p. 755.
- Canned sardines and yellowtail. Seacoast Canning Co. No. 139,206; Jan. 25; v. 282; p. 736.
- Canned sardines, salad and olive oils, &c. Hammer & Co. No. 145,959; Aug. 23; v. 289; p. 788.
- Canned sausage. Martin-Pemberton Company. No. 139,725; Feb. 15; v. 283; p. 541.
- Canned shrimp. Phoenix Packing Company. Nos. 144,893-4; July 19; v. 288; p. 621.
- Canned solid alcohol. George Borgfeldt & Co. No. 139,768; Feb. 22; v. 283; p. 751.
- Canned tomatoes. J. H. Allen & Co. No. 139,476; Feb. 8; v. 283; p. 349.
- Canned tomatoes and apricots. Calima Canning Company. No. 146,437; Sept. 6; v. 290; p. 208.
- Canned tuna fish, albacore, &c. Seacoast Canning Co. No. 141,219; Apr. 12; v. 285; p. 383.
- Canned tuna fish. White Star Canning Co. No. 141,718; Apr. 26; v. 285; p. 784.
- Canned turtle-meat. National City Commercial Co. No. 139,176; Jan. 25; v. 282; p. 735.
- Canned vegetables. Charles G. Summers Co. No. 145,230; July 26; v. 288; p. 817.
- Canned vegetables. The Fairfield Canning Company. No. 138,811; Jan. 11; v. 282; p. 376.
- Canned vegetables. Green County Canneries. No. 139,312; Feb. 1; v. 283; p. 169.
- Canned vegetables. Inderrieden Canning Co. No. 146,486; Sept. 6; v. 290; p. 213.
- Canned vegetables. Inderrieden Canning Co. No. 148,585; Nov. 15.
- Canned vegetables. Inderrieden Canning Co. No. 149,680; Dec. 20.
- Canned vegetables. Marshall Canning Company. No. 138,666; Jan. 4; v. 282; p. 188.
- Canned vegetables. Minnetonka Canning Co. No. 140,490; Mar. 15; v. 284; p. 584.
- Canned vegetables. W. R. Roach & Company. Nos. 140,950-2; Mar. 29; v. 284; p. 948.
- Canned vegetables. Sears and Nichols Canning Co. No. 140,208; Mar. 8; v. 284; p. 367.
- Canned vegetables. Sears and Nichols Canning Co. No. 141,222; Apr. 12; v. 285; p. 384.
- Canned vegetables. Sears and Nichols Canning Co. Nos. 141,671-2; Apr. 26; v. 285; p. 783.
- Canned vegetables. Sears & Nichols Canning Co. No. 144,534; July 5; v. 288; p. 200.
- Canned vegetables. Winorr Canning Company. No. 138,745; Jan. 4; v. 282; p. 190.
- Canned vegetables and apple sauce. Heart of Maine Packing Co. No. 143,039; May 24; v. 286; p. 847.
- Canned vegetables and canned apples. Lake Odessa Canning Co. No. 143,661; June 7; v. 287; p. 185.
- Canned vegetables and fruits. Austin, Nichols & Company. No. 139,243; Feb. 1; v. 283; p. 167.
- Canned vegetables and fruits. Green Mountain Packing Company. No. 141,367; Apr. 19; v. 285; p. 567.
- Canned vegetables and fruits. San Bernardino Canning Co. No. 145,451; Aug. 2; v. 289; p. 181.
- Canned vegetables and fruits, coffee, spices. Jett & Wood Mercantile Company. No. 141,581; Apr. 26; v. 285; p. 780.
- Canned vegetables, kraut, and pork and beans. Marshall Canning Co. No. 143,682; June 7; v. 287; p. 185.
- Canned vegetables, meats, and game. Salvarrey y Cerro Hermanos. No. 140,141; Mar. 8; v. 284; p. 365.
- Canned vegetables, unshelled nuts, and dried fruits. Palmer, Harvey & Co. No. 139,596; Feb. 8; v. 283; p. 352.
- Canners. Atlantic Stamping Company. No. 139,478; Feb. 8; v. 283; p. 349.
- Cannery machinery. Peerless Husker Company. No. 141,045; Mar. 29; v. 284; p. 953.
- Canning machinery. O. H. Hansen. No. 146,476; Sept. 6; v. 290; p. 212.
- Candied fruits and nuts and candy. F. G. Jensen. No. 138,978; Jan. 18; v. 282; p. 554.
- Candied popcorn crispettes. R. D. Brown. No. 139,257; Feb. 1; v. 283; p. 167.
- Candies. Beech-Nut Packing Company. No. 139,485; Feb. 8; v. 283; p. 349.
- Candies. The Brecht Candy Co. No. 145,539; Aug. 9; v. 289; p. 407.
- Candies. C. W. Brown. No. 148,572; Nov. 15.
- Candies. Brown & Haley. No. 139,258; Feb. 1; v. 283; p. 167.
- Candies. Brown & Haley. No. 147,556; Oct. 25.
- Candies. California Packing Corporation. No. 138,953; Jan. 18; v. 282; p. 553.
- Candies. Candy Company of America. No. 141,508; Apr. 26; v. 285; p. 778.
- Candies. Candy Products Corporation. No. 138,587; Jan. 4; v. 282; p. 186.
- Candies. G. E. Cornwell & Son. No. 145,940; Aug. 23; v. 289; p. 787.
- Candies. E. Davis. No. 140,361; Mar. 15; v. 284; p. 580.
- Candies. M. M. Diefenbacher. No. 140,794; Mar. 29; v. 284; p. 943.
- Candies. Dutton's Mox-O Candy Co. No. 142,512; May 17; v. 286; p. 626.
- Candies. V. C. Emden. No. 139,791; Feb. 22; v. 283; p. 752.
- Candies. Eye Brand Confectionery Inc. No. 142,999; May 24; v. 286; p. 845.
- Candies. Eye Brand Confectionery. No. 145,660; Aug. 16; v. 289; p. 593.



- Candies, Eye Brand Confectionery Inc. No. 146,031; Aug. 23; v. 289; p. 791.
- Candies, Fox Candy Company. No. 140,125; Mar. 8; v. 284; p. 864.
- Candies, Fred Wolferman Co. No. 139,667; Feb. 8; v. 283; p. 355.
- Candies, Geo. Haas & Sons. Nos. 142,871-3; May 17; v. 286; p. 639.
- Candies, Giachini Candy Co. No. 145,889; Aug. 16; v. 289; p. 602.
- Candies, Gorham Chocolate Co. No. 147,217; Oct. 4.
- Candies, Gorton Chocolate Company. No. 144,119; June 21; v. 287; p. 587.
- Candies, E. Greenfield's Sons. No. 144,658; July 12; v. 288; p. 427.
- Candies, N. U. Katz. No. 149,686; Dec. 20.
- Candies, Langley & Michaels Co. No. 140,417; Mar. 15; v. 284; p. 582.
- Candies, Lehmann Candy Company. No. 140,004; Mar. 1; v. 284; p. 174.
- Candies, Liberty Candy Company. No. 146,801; Sept. 20; v. 290; p. 635.
- Candies, Loft Incorporated. No. 149,989; Dec. 27.
- Candies, L. S. Lowrey. No. 147,495; Oct. 18.
- Candies, Max Glick Company. No. 140,707; Mar. 22; v. 284; p. 750.
- Candies, A. B. McCartney. No. 148,687; Nov. 22.
- Candies, Odessa Mfg. Co. No. 142,617; May 17; v. 286; p. 629.
- Candies, V. A. O'Neil. No. 139,181; Jan. 25; v. 282; p. 735.
- Candies, Pocahontas Candy Co. No. 148,511; Nov. 15.
- Candies, Schwabacher Bros. & Co. No. 141,668; Apr. 26; v. 285; p. 783.
- Candies, Stephen F. Whitman & Son. No. 143,776; June 7; v. 287; p. 188.
- Candies, Stephen F. Whitman & Son. No. 147,043; Sept. 27; v. 290; p. 806.
- Candies, Sweet Candy Company. No. 139,900; Feb. 22; v. 283; p. 755.
- Candies, Vogan Candy Company. No. 140,239; Mar. 8; v. 284; p. 368.
- Candies, Vogan Candy Company. No. 140,463; Mar. 15; v. 284; p. 583.
- Candies, Wallace & Co. No. 146,523; Sept. 6; v. 290; p. 217.
- Candies, Walter T. Hall & Co. No. 146,994; Sept. 27; v. 290; p. 804.
- Candies, Western Martha Washington Candies Company. Nos. 146,057-8; Aug. 23; v. 289; p. 795.
- Candies and burnt peanuts, Bunte Brothers. No. 140,030; Mar. 1; v. 284; p. 175.
- Candies and canned soups, H. J. Greenbut. No. 147,489; Oct. 18.
- Candies and chocolates, Cook-Welker-Hire. No. 146,074; Aug. 30; v. 289; p. 1013.
- Candies and chocolates, W. H. Gates. Nos. 140,808-9; Mar. 29; v. 284; p. 943.
- Candies and chocolates, Mason, Au & Magenheimer Confectionery Manufacturing Company. No. 141,604; Apr. 26; v. 285; p. 781.
- Candies and chocolates, Mason, Au & Magenheimer Conf. Mfg. Co. No. 144,856; July 19; v. 288; p. 620.
- Candies and chocolates, J. G. McDonald Chocolate Co. No. 148,470; Nov. 15.
- Candies and ice-cream, Simmons & Hammond Manufacturing Company. No. 143,471; May 31; v. 286; p. 1053.
- Candies, Assorted, F. Steffen. No. 140,441; Mar. 15; v. 284; p. 583.
- Candies called caramels, D. Marciani. No. 145,145; July 26; v. 288; p. 814.
- Candies, Chocolate, Brecht Candy Company. No. 143,293; May 31; v. 286; p. 1047.
- Candies, Chocolate, Dinou Brothers. No. 145,551; Aug. 9; v. 289; p. 407.
- Candies, Chocolate, Riesener Chocolate Co. No. 148,236; Nov. 8.
- Candies, Chocolate-coated, Davidson Brothers Co. No. 145,345; Aug. 2; v. 289; p. 178.
- Candies, Chocolate-coated, K. Janiece. No. 141,580; Apr. 26; v. 285; p. 780.
- Candies, chocolates, bonbons, &c., H. G. Williams. No. 143,778; June 7; v. 287; p. 188.
- Candies, chocolates, fruit confections, J. G. McDonald Chocolate Co. No. 146,804; Sept. 20; v. 290; p. 635.
- Candies, Hard, Hardie Bros. Co. No. 141,134; Apr. 12; v. 285; p. 381.
- Candies, &c., Hard and soft, C. Baruxes. No. 139,246; Feb. 1; v. 283; p. 167.
- Candies, ice-cream, lunches, cakes, Spoon and Straw, Inc. No. 144,943; July 19; v. 288; p. 623.
- Candies, ice-cream, pastry, M. Mills. No. 142,052; May 3; v. 286; p. 188.
- Candies, Peppermint, O. P. Cole. No. 143,573; June 7; v. 287; p. 182.
- Candies, marshmallows, and chocolates, Angeles Candy Co. No. 139,753; Feb. 22; v. 283; p. 751.
- Candies, particularly chocolates and bonbons, C. A. Barrett. No. 146,949; Sept. 27; v. 290; p. 803.
- Candy, A. G. Abraham Company. No. 147,529; Oct. 25.
- Candy, Alpine Chocolate Company. No. 147,897; Nov. 8.
- Candy, Ambrosia Chocolate Cream Co. No. 141,471; Apr. 26; v. 285; p. 777.
- Candy, Ambrosia Chocolate Cream Co. No. 141,724; Apr. 26; v. 285; p. 784.
- Candy, P. J. Andersen. No. 139,441; Feb. 1; v. 283; p. 174.
- Candy, D. Auerbach & Sons. No. 141,851; May 3; v. 286; p. 182.
- Candy, D. Auerbach & Sons. No. 147,044; Sept. 27; v. 290; p. 807.
- Candy, Baird Brothers Co. No. 146,946; Sept. 27; v. 290; p. 803.
- Candy, Belco Candy Co. No. 139,759; Feb. 22; v. 283; p. 751.
- Candy, Belle Mead Sweetmakers. No. 141,491; Apr. 26; v. 285; p. 777.
- Candy, Bishop & Company. No. 138,581; Jan. 4; v. 282; p. 185.
- Candy, Bishop & Company. No. 139,253; Feb. 1; v. 289; p. 167.
- Candy, Blaelus Candy Co. No. 142,935; May 24; v. 286; p. 843.
- Candy, C. F. Blanke Tea and Coffee Co. No. 140,329; Mar. 15; v. 284; p. 579.
- Candy, Blue Ribbon Candy Co. No. 142,936; May 24; v. 286; p. 843.
- Candy, C. H. Boyst. No. 147,201; Oct. 4.
- Candy, E. J. Brach and Sons. No. 146,956; Sept. 27; v. 290; p. 803.
- Candy, Buhr, Pfaff & Co. No. 142,243; May 10; v. 286; p. 403.
- Candy, L. G. Burns. No. 146,960; Sept. 27; v. 290; p. 803.
- Candy, California Chocolate Shops, Inc. No. 144,711; July 19; v. 288; p. 616.
- Candy, B. R. Camp. No. 145,330; Aug. 2; v. 289; p. 177.
- Candy, B. R. Camp. No. 147,202; Oct. 4.
- Candy, Candy Products Corporation. No. 149,866; Dec. 27.
- Candy, Cardinet Candy Co. No. 138,588; Jan. 4; v. 282; p. 186.
- Candy, Catawba Candy Company. No. 147,562; Oct. 25.
- Candy, Charter Chocolate Company. No. 144,718; July 19; v. 288; p. 616.
- Candy, G. W. Chase & Son Mer. Co. No. 147,564; Oct. 25.
- Candy, Chocolate Products Company. No. 149,567; Dec. 13.
- Candy, Chocolate Truffles Co. No. 149,360; Dec. 13.
- Candy, Collins-Hencke Candy Co. No. 139,276; Feb. 1; v. 283; p. 168.
- Candy, Continental Candy Corporation. No. 149,890; Dec. 27.
- Candy, Crown Confectionery Company. No. 141,914; May 3; v. 286; p. 184.
- Candy, Cullen Man'g Co. No. 146,642; Sept. 13; v. 290; p. 426.
- Candy, Curtiss Candy Co. Nos. 145,937-8; Aug. 23; v. 289; p. 787.
- Candy, Curtiss Candy Co. No. 146,564; Sept. 13; v. 290; p. 421.
- Candy, Curtiss Candy Co. Nos. 147,579-80; Oct. 25.
- Candy, Curtiss Candy Co. Nos. 148,384-5; Nov. 15.
- Candy, Curtiss Candy Company. No. 143,578; June 7; v. 287; p. 182.
- Candy, Davenport Candy Co. No. 148,756; Nov. 22.
- Candy, De Klyn Candy Co. No. 143,581; June 7; v. 287; p. 182.
- Candy, De Met and Company. No. 146,210; Sept. 6; v. 290; p. 198.
- Candy, Dilling & Company. No. 144,744; July 19; v. 288; p. 617.
- Candy, C. Dolman. No. 139,263; Feb. 1; v. 283; p. 168.
- Candy, C. E. Edson. No. 147,593; Oct. 25.
- Candy, Euclid Candy Company, The. No. 145,358; Aug. 2; v. 289; p. 178.
- Candy, Fletcher & Wilson Coffee Company. No. 143,004; May 24; v. 286; p. 846.
- Candy, W. C. Garwood. No. 147,054; Sept. 27; v. 290; p. 808.
- Candy, General Candy Co. Nos. 139,301-2; Feb. 1; v. 283; p. 169.
- Candy, George H. Fritz & Sons. No. 141,554; Apr. 26; v. 285; p. 779.
- Candy, Gerber Company, The. No. 149,927; Dec. 27.
- Candy, J. O. Gilbert. No. 142,203; May 3; v. 286; p. 192.
- Candy, Gramercy Chocolate Company. No. 141,563; Apr. 26; v. 285; p. 780.
- Candy, Gurley Candy Company. Nos. 138,633-4; Jan. 4; v. 282; p. 187.
- Candy, Gurley Candy Company. No. 142,553; May 17; v. 286; p. 627.
- Candy, N. C. Hall. No. 141,571; Apr. 26; v. 285; p. 780.
- Candy, Hawley & Hoops. Nos. 143,037-8; May 24; v. 286; p. 847.
- Candy, Hawley & Hoops. No. 146,765; Sept. 20; v. 290; p. 634.
- Candy, Headley Chocolate Co. No. 145,378; Aug. 2; v. 289; p. 179.
- Candy, Helm Candy Co. No. 146,996; Sept. 27; v. 290; p. 804.
- Candy, Hollingsworth Candy Co. No. 143,049; May 24; v. 286; p. 847.



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- Candy. Howard H. Hoyt Candy Co. No. 146,775; Sept. 20; v. 290; p. 634.
- Candy. Howard H. Hoyt Candy Co. No. 146,999; Sept. 27; v. 290; p. 804.
- Candy. Howard H. Hoyt Candy Co. No. 148,861; Nov. 29.
- Candy. Imperial Candy Company. No. 147,113; Oct. 4.
- Candy. G. E. Jackson. No. 145,120; July 26; v. 288; p. 814.
- Candy. Jacobs Candy Company. No. 139,556; Feb. 8; v. 283; p. 351.
- Candy. Joseph E. Kramer Corporation. No. 142,661; May 17; v. 286; p. 630.
- Candy. A. Karcher Candy Co. No. 142,649; May 17; v. 286; p. 630.
- Candy. Kibbe Brothers Company. No. 145,395; Aug. 2; v. 289; p. 180.
- Candy. King Candy Co. Nos. 142,655-6; May 17; v. 286; p. 630.
- Candy. King Candy Co. No. 146,788; Sept. 20; v. 290; p. 635.
- Candy. A. A. Kraft Co. No. 145,710; Aug. 16; v. 289; p. 594.
- Candy. Liberty Orchards Company. No. 146,802; Sept. 20; v. 290; p. 635.
- Candy. G. W. Loft. No. 138,995; Jan. 18; v. 282; p. 555.
- Candy. Loose-Wiles Biscuit Company. No. 148,893; Nov. 29.
- Candy. Love and Kopis Candy Co. No. 144,836; July 19; v. 288; p. 620.
- Candy. Manufacturing Company of America. No. 149,696; Dec. 20.
- Candy. E. L. Mathews Candy Company. No. 144,666; July 12; v. 288; p. 428.
- Candy. Max Glick Co. No. 140,010; Mar. 1; v. 284; p. 174.
- Candy. Max Glick Co. No. 147,609; Oct. 25.
- Candy. Max Glick Co. No. 148,415; Nov. 15.
- Candy. C. May. No. 148,476; Nov. 15.
- Candy. McKusick-Towle & Company. No. 146,805; Sept. 20; v. 290; p. 635.
- Candy. Mfg. Co. of America. No. 139,579; Feb. 8; v. 283; p. 352.
- Candy. Miller Candy Company. No. 140,489; Mar. 15; v. 284; p. 584.
- Candy. W. S. Milliken. No. 149,168; Dec. 6.
- Candy. Mills Candy Co. No. 138,673; Jan. 4; v. 282; p. 188.
- Candy. Mills Candy Company. No. 141,613; Apr. 26; v. 285; p. 781.
- Candy. Mint Products Co. Nos. 141,176-81; Apr. 12; v. 285; p. 382.
- Candy. A. G. Morse Co. No. 138,675; Jan. 4; v. 282; p. 188.
- Candy. A. G. Morse Co. No. 142,626; May 17; v. 286; p. 629.
- Candy. New England Confectionery Company. No. 146,122; Aug. 30; v. 289; p. 1015.
- Candy. New England Confectionery Company. No. 147,657; Oct. 25.
- Candy. J. L. Newbold. No. 146,823; Sept. 20; v. 290; p. 636.
- Candy. Nunnally Company. No. 139,689; Feb. 8; v. 283; p. 357.
- Candy. O'Connor Candy Co. No. 147,660; Oct. 25.
- Candy. Package Confectionery Company. No. 139,182; Jan. 25; v. 282; p. 735.
- Candy. Package Confectionery Company. No. 140,509; Mar. 15; v. 284; p. 585.
- Candy. Package Confectionery Company. No. 141,193; Apr. 12; v. 285; p. 383.
- Candy. Package Confectionery Company. No. 146,932; Sept. 20; v. 290; p. 642.
- Candy. Paul F. Beich Co. No. 138,774; Jan. 11; v. 282; p. 375.
- Candy. A. E. Perkins, Jr. No. 149,713; Dec. 20.
- Candy. S. T. Peterson. No. 141,639; Apr. 26; v. 285; p. 782.
- Candy. Pirika Chocolate Co. No. 148,213; Nov. 8.
- Candy. Pirika Chocolate Co. No. 148,508; Nov. 15.
- Candy. Polly Trent Candy Co. No. 145,901; Aug. 16; v. 289; p. 603.
- Candy. Rice Chocolate Company. No. 148,234; Nov. 8.
- Candy. Robert A. Johnston Company. No. 147,626; Oct. 25.
- Candy. Robertson & Watson. No. 148,238; Nov. 8.
- Candy. Robt. F. Mackenzie Co. No. 143,680; June 7; v. 287; p. 185.
- Candy. L. Rosenbloom. No. 143,733; June 7; v. 287; p. 187.
- Candy. Samoset Chocolates Company. Nos. 149,726-8; Dec. 20.
- Candy. Miss Saylor's Chocolates. No. 147,158; Oct. 4.
- Candy. Satin Candy Co. No. 140,429; Mar. 15; v. 284; p. 582.
- Candy. Schuler Chocolate Factory. No. 139,623; Feb. 8; v. 283; p. 353.
- Candy. Sophie Mae Candy Corporation. No. 148,896; Nov. 29.
- Candy. Spoehr's. No. 146,143; Aug. 30; v. 289; p. 1015.
- Candy. Spoehr's. Nos. 146,882-4; Sept. 20; v. 290; pp. 637-8.
- Candy. Spoehr's. Nos. 149,242-3; Dec. 6.
- Candy. Stampede Company. No. 139,038; Jan. 18; v. 282; p. 556.
- Candy. W. V. & L. M. Steere. No. 146,371; Sept. 6; v. 290; p. 203.
- Candy. Stephen F. Whitman & Son. No. 139,430; Feb. 1; v. 283; p. 173.
- Candy. Stephen F. Whitman & Son. No. 139,705; Feb. 8; v. 283; p. 359.
- Candy. Stephen F. Whitman & Son. No. 149,290; Dec. 6.
- Candy. E. M. Strauss. Nos. 147,416-18; Oct. 11.
- Candy. Sweet Candy Company. No. 142,788; May 17; v. 286; p. 634.
- Candy. Sweet Candy Co. No. 144,148; June 21; v. 287; p. 590.
- Candy. Syracuse Candy Works Inc. No. 141,246; Apr. 12; v. 285; p. 384.
- Candy. Tarter Candy Company. No. 139,811; Feb. 22; v. 283; p. 753.
- Candy. Teckemeyer Candy Co. No. 140,226; Mar. 8; v. 284; p. 368.
- Candy. Tru-Blu Biscuit Co. No. 148,547; Nov. 15.
- Candy. Tru-Blu Biscuit Company. Nos. 149,264-6; Dec. 6.
- Candy. Union Candy Co. No. 142,803; May 17; v. 286; p. 635.
- Candy. United Retail Candy Stores. Nos. 141,706-7; Apr. 26; v. 285; p. 784.
- Candy. Val. Blatz Jr. Candy Co. No. 141,708; Apr. 26; v. 285; p. 784.
- Candy. Val. Blatz Jr. Candy Co. No. 142,489; May 17; v. 286; p. 625.
- Candy. Val. Blatz, Jr., Candy Co. No. 143,555; June 7; v. 287; p. 181.
- Candy. Van Antwerp's Drug Corporation, Inc. No. 149,536; Dec. 13.
- Candy. C. Viebrock. No. 141,457; Apr. 19; v. 285; p. 569.
- Candy. Voegelé & Dinning Co. No. 146,056; Aug. 23; v. 289; p. 795.
- Candy. Vogan Candy Company. No. 141,710; Apr. 26; v. 285; p. 784.
- Candy. Vogan Candy Company. No. 144,964; July 19; v. 288; p. 623.
- Candy. The Walter M. Lowney Company. No. 138,997; Jan. 18; v. 282; p. 555.
- Candy. Walter M. Lowney Company. No. 140,882; Mar. 29; v. 284; p. 946.
- Candy. Walter T. Hall & Company. No. 147,618; Oct. 25.
- Candy. Wandell Chocolate Company. No. 150,162; Dec. 27.
- Candy. Webers. No. 140,305; Mar. 8; v. 284; p. 374.
- Candy. White Star Candy Company. No. 143,222; May 24; v. 286; p. 853.
- Candy. Williams Chocolate Co. No. 142,841; May 17; v. 286; p. 636.
- Candy and cake. H. Yamaguchi. No. 146,018; Aug. 23; v. 289; p. 790.
- Candy and chewing-gum. W. B. Rea. No. 142,100; May 3; v. 286; p. 189.
- Candy and chocolate-bars. J. Kotsovetes. No. 145,397; Aug. 2; v. 289; p. 180.
- Candy. Butter-scotch. W. J. Kelleher. No. 146,785; Sept. 20; v. 290; p. 634.
- Candy, caramels, chocolates, &c. Repetti. No. 139,376; Feb. 1; v. 283; p. 171.
- Candy, Chocolate. Ahern & Co. No. 148,971; Dec. 6.
- Candy, Chocolate. Dilling & Company. No. 143,583; June 7; v. 287; p. 182.
- Candy, Chocolate. Dilling & Company. No. 144,742; July 19; v. 288; p. 617.
- Candy, Chocolate. D'Orlando & Co. No. 142,504; May 17; v. 286; p. 626.
- Candy, Chocolate. E. Greenfield's Sons. No. 148,061; Nov. 8.
- Candy, Chocolate. Halligan Candy Company. No. 148,066; Nov. 8.
- Candy, Chocolate. Metro Chocolate Co. No. 141,610; Apr. 26; v. 285; p. 781.
- Candy, Chocolate. A. G. Morse Co. No. 140,491; Mar. 15; v. 284; p. 584.
- Candy, Chocolate. Pig & Whistle Company. No. 148,211; Nov. 8.
- Candy, Chocolate. Schuler Chocolate Factory. No. 145,456; Aug. 2; v. 289; p. 181.
- Candy, Chocolate. Theodore Gottmann & Sons. No. 143,850; June 14; v. 287; p. 400.
- Candy, chocolate, and cocoa. Chalet Chocolate Corporation. No. 138,595; Jan. 4; v. 282; p. 186.
- Candy, Chocolate-bar. Dilling & Company. No. 143,585; June 7; v. 287; p. 182.
- Candy, Chocolate peanut-candy confection. Maans N. Nellin. No. 142,068; May 3; v. 286; p. 188.
- Candy, chocolates, and candy bars. Assorted hard. Palmer Candy Co. No. 148,198; Nov. 8.
- Candy, chocolates, bonbons. Plaza Confectionery Co. No. 139,606; Feb. 8; v. 283; p. 353.
- Candy confection flavored with coffee. C. F. Blanke Tea & Coffee Co. No. 139,490; Feb. 8; v. 283; p. 349.
- Candy containing yeast. Chocolate. Chocolate Yeast Co. No. 146,967; Sept. 27; v. 290; p. 803.
- Candy, Corn. J. L. Kellogg. No. 139,559; Feb. 8; v. 283; p. 351.
- Candy, Corn. J. L. Kellogg. No. 142,651; May 17; v. 286; p. 630.



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- Candy covered with edible nuts. Abraham Chocolate Co. No. 143,528; June 7; v. 287; p. 181.
- Candy in boxes. Harem Candy Co. No. 149,678; Dec. 20.
- Candy kisses. Dilling & Company. No. 146,982; Sept. 27; v. 290; p. 804.
- Candy, Licorice. National Licorice Company. No. 144,878; July 19; v. 288; p. 621.
- Candy, Licorice. National Licorice Company. No. 148,904; Nov. 29.
- Candy, Milk-chocolate. Palmer Candy Company. No. 142,315; May 10; v. 286; p. 405.
- Candy mixture, Hard. W. G. Voliva. No. 141,458; Apr. 19; v. 285; p. 569.
- Candy, Molasses. Penick & Ford. No. 139,021; Jan. 18; v. 282; p. 555.
- Candy—namely, chocolate bars. Dilling & Company. No. 143,584; June 7; v. 287; p. 182.
- Candy—namely, chocolate bars. Dilling & Company. No. 144,741; July 19; v. 288; p. 617.
- Candy, Nut. William Prentiss, Jr., Company. No. 140,938; Mar. 29; v. 284; p. 947.
- Candy, Old-fashioned taffy. Dilling & Company. No. 145,348; Aug. 2; v. 289; p. 178.
- Candy, Package. Vogan Candy Company. No. 145,850; Aug. 16; v. 289; p. 599.
- Candy, peanut-butter, marshmallow sundae. Rood Candy Co. No. 146,345; Sept. 6; v. 290; p. 202.
- Candy, peanuts, and candied popcorn. Hoover Candy Co. No. 139,818; Feb. 22; v. 283; p. 753.
- Candy, peanuts, and popcorn. A. H. Burt. No. 146,701; Sept. 20; v. 290; p. 632.
- Candy, Peppermint-flavored. O-Pee-Chee Gum Co. No. 143,123; May 24; v. 286; p. 849.
- Candy, Pulling. S. S. Taylor. No. 144,482; July 5; v. 288; p. 195.
- Candy, Spearmint. M. M. Dittenbacher. No. 142,983; May 24; v. 286; p. 845.
- Candy, Stick. Garrison-Cook Candy Co. No. 146,099; Aug. 30; v. 289; p. 1014.
- Candy suckers. H. W. Faulkner. No. 148,016; Nov. 8.
- Candles. Uddo Brothers Company, Inc. No. 141,255; Apr. 12; v. 285; p. 385.
- Candles. Will & Baumer Candle Co. No. 147,745; Oct. 25.
- Candles. Will & Baumer Candle Co. No. 149,331; Dec. 6.
- Cane-molasses for stock-feeding purposes. Oelerich & Berry Co. No. 148,498; Nov. 15.
- Canoe, rowboats, yachts, &c. A. Yelle. No. 141,722; Apr. 26; v. 285; p. 784.
- Cantaloups. Associated Fruit Co. No. 141,313; Apr. 19; v. 285; p. 565.
- Cantaloups. Half Moon Fruit & Produce Co. No. 141,570; Apr. 26; v. 285; p. 780.
- Cantaloups. Wapato Melon Growers Association. No. 141,269; Apr. 12; v. 285; p. 385.
- Cantaloups and lettuce. Fruit Distributors Service Co. No. 146,746; Sept. 20; v. 290; p. 633.
- Cantaloups, cauliflower, onions, tomatoes, and grapes. Fresh. W. E. Urlick. No. 144,960; July 19; v. 288; p. 623.
- Canton-fannel. Sears, Roebuck and Co. No. 145,218; July 26; v. 288; p. 817.
- Caps. K. L. Bartholomew. No. 142,930; May 24; v. 286; p. 843.
- Caps, Men's. G. H. Kromer, Jr. No. 140,864; Mar. 29; v. 284; p. 945.
- Caps, Miners'. T. R. Jones. No. 149,126; Dec. 6.
- Capsules, Calomel. Dr. B. W. Walling & Co. No. 139,226; Jan. 25; v. 282; p. 736.
- Capsules. Non-narcotic. Pacsules Laboratories. No. 146,319; Sept. 6; v. 290; p. 202.
- Capsules of ergotin and apiol. William S. Merrell Company. No. 142,035; May 3; v. 286; p. 187.
- Capsules to be taken internally for the treatment of piles. C. A. Moore, Sr. No. 138,839; Jan. 11; v. 282; p. 377.
- Car accessories, Certain railway-. Scullin Steel Co. No. 147,683; Oct. 25.
- Car-cleaner, soap powder, powdered soap, Detergent. Modoc Company. No. 143,402; May 31; v. 286; p. 1051.
- Car metal roofs and parts of same. Railroad. P. H. Murphy Company. No. 148,692; Nov. 22.
- Cars and couplings. C. W. Hunt Company. No. 144,584; July 12; v. 288; p. 424.
- Cars, Core-oven and charging. Whiting Foundry Equipment Co. No. 143,223; May 24; v. 286; p. 853.
- Cars, Motor-. Anderson Motor Company. No. 141,312; Apr. 19; v. 285; p. 565.
- Cars, Motor-. Lincoln Motor Company. No. 141,162; Apr. 12; v. 285; p. 382.
- Cars, parts, and accessories. A. V. Roe & Co. No. 141,426; Apr. 19; v. 285; p. 568.
- Cars, Pleasure motor-. H. E. Cross. Nos. 145,644-5; Aug. 16; v. 289; p. 592.
- Cars, Street-. J. G. Brill Company. No. 142,358; May 10; v. 286; p. 407.
- Cars, Trailer-. Northway Trailercar Company. No. 140,916; Mar. 29; v. 284; p. 947.
- Cars, &c., Transmission apparatus and explosion-motors for motor-. Minerva Motors. No. 149,702; Dec. 20.
- Cars, Trimmings for railway-. Adams & Westlake Company. No. 141,466; Apr. 26; v. 285; p. 777.
- Caramels. Geo. H. Fritz & Sons. No. 140,598; Mar. 22; v. 284; p. 744.
- Carbon-paper and typewriter-ribbons. De-Fi Manufacturing Company. No. 138,802; Jan. 11; v. 282; p. 376.
- Carbon-paper and typewriter-ribbons. Nelson-Elsmann-Quist Co. No. 142,637; May 17; v. 286; p. 630.
- Carbon paper and typewriter-ribbons. C. E. Evans. No. 139,715; Feb. 15; v. 283; p. 541.
- Carbon-remover. P. F. Koelble. No. 140,862; Mar. 29; v. 284; p. 945.
- Carbon-remover. The Patterson-Sargent Company. No. 141,197; Apr. 12; v. 285; p. 383.
- Carbon-remover, Chemical. W. B. Cosgrove. No. 139,280; Feb. 1; v. 283; p. 168.
- Carbon-remover for engine-cylinders. J. F. Benton. No. 140,750; Mar. 29; v. 284; p. 941.
- Carbon-removing compound for internal-combustion-engine cylinders. C. T. Dally. No. 144,377; July 5; v. 288; p. 192.
- Carbon-removing liquids for internal-combustion engines. Kar-Pep Manufacturing Company. No. 140,409; Mar. 15; v. 284; p. 582.
- Carbon-sheets. Columbia Carbon Company. No. 141,739; Apr. 26; v. 285; p. 786.
- Carbons, Arc-light. National Carbon Company. No. 142,381; May 10; v. 286; p. 409.
- Carbonated soft drinks and syrups. H. P. Hood & Sons. No. 149,113; Dec. 6.
- Carbonizing, annealing, tempering, and melting pots and boxes and metal crucibles. West Michigan Steel Foundry Co. No. 146,624; Sept. 13; v. 290; p. 423.
- Carburetor-compensators. Perfection Auto Parts Company. No. 140,931; Mar. 29; v. 284; p. 947.
- Carbureters. Briscoe Devices Company. No. 141,878; May 3; v. 286; p. 182.
- Carbureters. Carter Carburetor Company. No. 138,896; Jan. 11; v. 282; p. 379.
- Carbureters. Yale & Towne Mfg. Co. Nos. 140,474-6; Mar. 15; v. 284; p. 584.
- Carbureters and vaporizers for internal-combustion engines. Vaporator Corporation. No. 147,425; Oct. 11.
- Carbureters for internal-combustion engines. Charles H. Pugh Limited. No. 145,441; Aug. 2; v. 289; p. 181.
- Card game. Champion Amusement Company. No. 142,465; May 17; v. 286; p. 625.
- Card game. P. E. Hurst. No. 149,953; Dec. 27.
- Cards, Art picture-. Cincinnati Art Publishing Company. No. 140,347; Mar. 15; v. 284; p. 580.
- Cards, Book-plate labels, and calendars, Printed and engraved. Tiffany Company. No. 140,996; Mar. 29; v. 284; p. 949.
- Cards, Index-. H. C. Gauss. No. 141,124; Apr. 12; v. 285; p. 380.
- Cards, Name, data, and index. Highland Manufacturing Company. No. 143,365; May 31; v. 286; p. 1050.
- Cards, Playing-. George B. Hurd & Co. No. 148,862; Nov. 29.
- Cards, Playing-. Midland Playing Card Co. No. 149,164; Dec. 6.
- Cards, Playing-. United States Playing Card Company. No. 139,656; Feb. 8; v. 283; p. 354.
- Cards, Playing-. United States Playing Card Company. Nos. 139,701-3; Feb. 8; v. 283; p. 359.
- Cards, Playing-. United States Playing Card Company. No. 139,961; Feb. 22; v. 283; p. 761.
- Cards, Playing-. United States Playing Card Company. No. 143,499; May 31; v. 286; p. 1054.
- Cards, Playing-. United States Playing Card Company. No. 143,876; June 14; v. 287; p. 402.
- Cards, Playing-. United States Playing Card Company. No. 146,518; Sept. 6; v. 290; p. 217.
- Cards, Playing-. United States Playing Card Company. No. 146,660; Sept. 13; v. 290; p. 429.
- Cards, Playing-. United States Playing Card Company. Nos. 147,739-44; Oct. 25.
- Cards, Playing-. The United States Playing Card Company. Nos. 148,607-24; Nov. 15.
- Cardboard and pictorial toys for teaching children simple words. Davis and Ford. No. 149,657; Dec. 20.
- Cardboard, Coated. Falulah Paper Company. No. 143,601; June 7; v. 287; p. 183.
- Carpet renovator and cleaner. S. E. Visonneau. No. 143,504; May 31; v. 286; p. 1054.
- Carpets and rugs. W. A. W. Davis Corporation. No. 145,070; July 26; v. 288; p. 812.
- Carpets and rugs. W. A. W. Davis Corp. No. 147,452; Oct. 18.
- Carpets and rugs. Home Weaving Works. No. 148,438; Nov. 15.
- Carpets and rugs, Fiber. W. A. W. Davis Corp. No. 139,785; Feb. 22; v. 283; p. 752.
- Carpets and rugs, Rag. A. C. McGugin. No. 139,830; Feb. 22; v. 283; p. 753.
- Carpets and rugs, Wilton. Hardwick & Magee Company. Nos. 146,477-8; Sept. 6; v. 290; p. 212.
- Carpets and rugs, Wilton. Hardwick & Magee Company. No. 148,333; Nov. 8.
- Carousel. S. Alseth. No. 142,485; May 17; v. 286; p. 625.
- Carriages and go-carts. Baby. Sturgis Steel Go-Cart Co. No. 149,620; Dec. 13.



*Alphabetical list of trade-marks—Continued.*

- Carriages, Baby-. Bloch Go-Cart Company. No. 146,692; Sept. 20; v. 290; p. 632.
- Carriages, &c., Baby-. Children's Vehicle Corporation. No. 141,336; Apr. 19; v. 285; p. 566.
- Carriages, Baby-. Sidway Mercantile Company. No. 145,523; Aug. 2; v. 289; p. 186.
- Carriages, sulkies, strollers, Baby-. Lloyd Manufacturing Company. No. 139,084; Jan. 18; v. 282; p. 559.
- Cartoons. A. G. Ablitzer. No. 142,226; May 10; v. 286; p. 403.
- Cartoons. A. G. Ablitzer. No. 142,910; May 24; v. 286; p. 843.
- Cartoons. R. J. Bieger. No. 149,842; Dec. 27.
- Cartoons. E. Byrnes. Nos. 139,970-1; Mar. 1; v. 284; p. 173.
- Cartoons, pictures, drawings. G. D. Barrett. No. 142,929; May 24; v. 286; p. 843.
- Cartoons, Serial. R. J. Bieger. No. 147,272; Oct. 11.
- Cartoons, Series of. The Bell Syndicate. No. 140,552; Mar. 22; v. 284; p. 743.
- Cartoons, Series of. E. Byrnes. No. 142,461; May 17; v. 286; p. 625.
- Cartridge-fuses, fuse-plugs, dynamo and motor brushes. Cooley Mfg. Co. No. 148,381; Nov. 15.
- Cascara and chionanthus compound. William S. Merrell Company. No. 142,033; May 3; v. 286; p. 187.
- Case-hardening compounds. S. H. Morden & Co. No. 140,012; Mar. 1; v. 284; p. 174.
- Case or container to protect its contents against the effect of temperature. Safe-Cabinet Company. No. 139,955; Feb. 22; v. 283; p. 760.
- Casein glues or adhesives. Casein Glues Manufacturing Company. No. 139,925; Feb. 22; v. 283; p. 757.
- Caskets and coffins. North St. Paul Casket Company. No. 145,764; Aug. 16; v. 289; p. 596.
- Cast-tooth sprockets, cut-tooth sprockets, friction-clutches, speed-reducers. Union Chain & Manufacturing Company. No. 141,256; Apr. 12; v. 285; p. 385.
- Castanea compound for use in coughs. William S. Merrell Company. No. 142,040; May 3; v. 286; p. 188.
- Casters. Bassick Company. Nos. 149,347-8; Dec. 13.
- Casters. W. H. McAllister. No. 140,477; Mar. 15; v. 284; p. 584.
- Casters for furniture. Faultless Caster Co. No. 148,018; Nov. 8.
- Casting battery parts, Molds for. E. J. Kukac. No. 149,980; Dec. 27.
- Casting rods, artificial wooden minnows, &c., Bamboo. James Heddon's Sons. No. 142,875; May 17; v. 286; p. 639.
- Castings and forgings, Steel. Argos Steel Products Corporation. No. 147,909; Nov. 8.
- Castings and forgings, Steel. Hadfield's Limited. No. 139,544; Feb. 8; v. 283; p. 351.
- Castings, Bronze. Thomas Faulson & Son. No. 147,510; Oct. 18.
- Castings, Bronze and brass. Augustus B. Nolte. No. 138,915; Jan. 11; v. 282; p. 387.
- Castings, Ferrous and non-ferrous metal. Wayne Works. No. 142,823; May 17; v. 286; p. 635.
- Castings for pumps and pumping plants. Monarch Foundry Company. No. 149,171; Dec. 6.
- Castings made in permanent molds, Non-ferrous. Keystone Die Casting Co. Nos. 143,655-6; June 7; v. 287; p. 185.
- Castings, Malleable-iron. Marion Malleable Iron Works. No. 142,301; May 10; v. 286; p. 405.
- Castings, Metal. Milwaukee Steel Foundry Company. No. 144,202; June 28; v. 287; p. 774.
- Castings, Non-ferrous. Acme Die Casting Corporation. No. 149,333; Dec. 13.
- Castings, Steel. American Radiator Company. No. 147,535; Oct. 25.
- Castings, Steel. Duquesne Steel Foundry Company. No. 139,289; Feb. 1; v. 283; p. 168.
- Castings, Steel. Milwaukee Steel Foundry Co. No. 140,175; Mar. 8; v. 284; p. 366.
- Castor-oil. S. Kellogg & Sons Inc. No. 145,014; July 19; v. 288; p. 629.
- Catalogue. Shapleigh Hardware Company. No. 144,277; June 28; v. 287; p. 776.
- Catalogues, booklets, price-lists, and pamphlets. A. I. Randall. No. 145,004; July 19; v. 288; p. 628.
- Catalogues issued monthly and annually. Moore & Evans. No. 144,865; July 19; v. 288; p. 620.
- Catalogues published from time to time. Cady & Olmstead Jewelry Co. No. 143,918; June 21; v. 287; p. 578.
- Cathartal jelly. T. N. Kenyon. No. 147,728; Oct. 25.
- Cathartic preparation. Adlerika Company. No. 139,749; Feb. 22; v. 283; p. 751.
- Cathartics and purgatives. Raabe & Bowman. No. 146,135; Aug. 30; v. 289; p. 1015.
- Cattle, calves, swine, goats, sheep, butter, and milk, Live. J. Breuchaud. No. 147,937; Nov. 8.
- Cattle-pokes. C. B. Poke Mfg. Co. Nos. 144,259-61; June 28; v. 287; p. 776.
- Cattle, sheep, pigs, and chickens, the goods being alive. R. Haughton. No. 139,548; Feb. 8; v. 283; p. 351.
- Cement. Armstrong Company. No. 142,919; May 24; v. 286; p. 843.
- Cement, Adhesive. H. A. Cook. No. 149,892; Dec. 27.
- Cement, Adhesive. J. Goldstein. No. 149,931; Dec. 27.
- Cement, Adhesive. Stixole Manufacturing Co. No. 140,224; Mar. 8; v. 284; p. 367.
- Cement, asphalt roll and asphalt shingle roofings, Plastic American Turpentine Company. No. 146,025; Aug. 23; v. 289; p. 791.
- Cement blocks. Ideal Cement Stone Company. No. 145,697; Aug. 16; v. 289; p. 594.
- Cement floors, Material for chemically hardening and dust-proofing. Toch Brothers. No. 142,156; May 3; v. 286; p. 191.
- Cement for filling fissures in metals. G. P. Goldsmith. No. 144,524; July 5; v. 288; p. 199.
- Cement for pipe-joints and for stopping leaks in steam, &c., containers. Smooth-On Manufacturing Company. No. 146,877; Sept. 20; v. 290; p. 637.
- Cement, High-temperature. McPhee Cement Company. No. 145,136; July 26; v. 288; p. 814.
- Cement, Hydraulic and high-temperature. King Refractories Corporation. No. 149,688; Dec. 20.
- Cement, Liquid material to be mixed with. Toch Brothers. No. 143,197; May 24; v. 286; p. 852.
- Cement, Mending. Hemmerding, L., & Co. No. 149,941; Dec. 27.
- Cement, Patching. P. C. Plaster. No. 150,057; Dec. 27.
- Cement, Portland. Edison Portland Cement Company. No. 144,384; July 5; v. 288; p. 192.
- Cement, Portland. Louisville Cement Company. No. 144,600; July 12; v. 288; p. 424.
- Cement, Roof-. Kling-Tite Products Company. No. 138,654; Jan. 4; v. 282; p. 188.
- Cement to bind fire-bricks, Refractory. Pyro Products Company. No. 141,208; Apr. 12; v. 285; p. 383.
- Cement, Transparent. Highland Manufacturing Co. No. 148,076; Nov. 8.
- Cements, Adhesive. H. A. Baggot. No. 142,439; May 17; v. 286; p. 624.
- Cements and glues, Adhesive. Riverside Paint & Varnish Company. No. 142,111; May 3; v. 286; p. 190.
- Cements, Boiler and glass setting. Excello Manufacturing Company. No. 145,093; July 26; v. 288; p. 813.
- Cements, Refractory and high-temperature. Adams & Jewell. No. 146,417; Sept. 6; v. 290; p. 205.
- Cements, Roofing-. L. D. Johnson. No. 144,589; July 12; v. 288; p. 424.
- Centrifugal machines. Sharples Company. No. 146,505; Sept. 6; v. 290; p. 215.
- Cereal breakfast food. Breakfast Brownies Company. Nos. 142,456-7; May 17; v. 286; p. 624.
- Cereal breakfast food. Kellogg Toasted Corn Flake Co. No. 145,422; Aug. 2; v. 289; p. 180.
- Cereal compound. Roman Meal Company. No. 142,895; May 17; v. 286; p. 641.
- Cereal extracts for use in the manufacture of bread. Corby Company. No. 141,525; Apr. 26; v. 285; p. 778.
- Cereal, Wheat. Package Confectionery Company. No. 146,831; Sept. 20; v. 290; p. 636.
- Cereal, Wheat-bran. Brangesta Company. No. 141,497; Apr. 26; v. 285; p. 778.
- Cereals, Breakfast. California Fig-Nut Company. No. 139,066; Jan. 18; v. 282; p. 557.
- Certain construction materials. Fairbanks Co. No. 148,013; Nov. 8.
- Certain named paints and painters' materials. Sidney Loog & Sons. No. 139,210; Jan. 25; v. 282; p. 736.
- Certain named plumbing and steam-fitting supplies. Southern Supply Company. No. 139,212; Jan. 25; v. 282; p. 736.
- Certain named testing machinery. Vibration Specialty Company. No. 139,225; Jan. 25; v. 282; p. 736.
- Certain products of pure iron. American Rolling Mill Company. No. 148,346; Nov. 15.
- Certificates of deposit and withdrawal slips, &c., Combined. Wheeler Banking System and Industrial-Credit Association. No. 139,911; Feb. 22; v. 283; p. 756.
- Chains. Columbus McKinnon Chain Company. No. 148,804; Nov. 29.
- Chains. Universal Chain Co. No. 143,203; May 24; v. 286; p. 852.
- Chains and wheels. Never-Skid Manufacturing Co. No. 146,545; Sept. 6; v. 290; p. 220.
- Chains, Drive-. Atlas Chain Co. No. 145,034; July 26; v. 288; p. 811.
- Chains for personal adornment. Forstner Chain Corporation. Nos. 144,393-4; July 5; v. 288; p. 193.
- Chains for personal adornment. Forstner Chain Corporation. No. 144,768; July 19; v. 288; p. 617.
- Chains, Traction and antiskid. Daubenspeck Chain Company. No. 141,917; May 3; v. 286; p. 184.
- Chairs, stools, settees, &c., Rustic. Old Hickory Chair Company. No. 147,363; Oct. 11.
- Chambray in the piece. Sears, Roebuck and Co. No. 144,926; July 19; v. 288; p. 622.
- Chambray in the piece. Sears, Roebuck and Co. No. 148,738; Nov. 22.
- Change-speed transmissions. Cotta Transmission Company. Nos. 139,448-9; Feb. 1; v. 283; pp. 174-5.
- Channel and angle irons, corner-heads, and metal laths. Youngstown Pressed Steel Company. No. 139,747; Feb. 15; v. 283; p. 544.
- Charms for personal wear. Potter & Buffinton Co. No. 148,513; Nov. 15.
- Charts, Storm-. National Storm Insurance Bureau. Nos. 140,497-8; Mar. 15; v. 284; p. 584.
- Check and bank books, checks, drafts, bills, notes. Bankers Publicity Company. No. 147,917; Nov. 8.



- Check-writers. New Era Mfg. Co. No. 138,841; Jan. 11; v. 282; p. 377.
- Checks, Bank-. Rehm and Poole. No. 146,340; Sept. 6; v. 290; p. 202.
- Checks, Door-. Michigan Metal Products Company. No. 148,162; Nov. 8.
- Cheese. E. W. Coon. No. 147,970; Nov. 8.
- Cheese. Coöperative Producenten Handelsvereeniging. No. 139,126; Jan. 25; v. 282; p. 733.
- Cheese. Greenwich Cheese Company. No. 139,313; Feb. 1; v. 283; p. 169.
- Cheese. Greenwich Cheese Co. No. 142,550; May 17; v. 286; p. 627.
- Cheese. Gust. & H. Probst A. G. No. 149,397; Dec. 13.
- Cheese. Lemann & Cie. No. 145,399; Aug. 2; v. 289; p. 180.
- Cheese. J. C. Rudolph & Co. No. 147,155; Oct. 4.
- Cheese. J. C. Rudolph & Company. No. 146,346; Sept. 6; v. 290; p. 203.
- Cheese. N. Simon Cheese Co. No. 142,391; May 10; v. 286; p. 411.
- Cheese. Tillamook County Creamery Association. No. 143,836; June 7; v. 287; p. 194.
- Cheese. C. Zuercher. No. 150,190; Dec. 27.
- Cheese, and macaroni and cheese. J. L. Kraft & Bros. Co. No. 149,789; Dec. 20.
- Cheese, butter, and eggs. Phenix Cheese Co. No. 142,711; May 17; v. 286; p. 632.
- Cheese-cloth in the piece. Marshall Field & Company. No. 141,774; Apr. 26; v. 285; p. 790.
- Cheese, Cream-. Phenix Cheese Company. No. 139,094; Jan. 18; v. 282; p. 560.
- Cheese-cutters, Computing. Computing Cheese Cutter Co. No. 138,897; Jan. 11; v. 282; p. 379.
- Cheese, Full-cream. Jacob E. Decker & Sons. No. 147,979; Nov. 8.
- Cheese, Grated. Western Cheese and Butter Co. No. 147,187; Oct. 4.
- Chemical. The Dow Chemical Company. No. 140,588; Mar. 22; v. 284; p. 744.
- Chemical and medicinal preparations. Alton Mercantile Company. No. 141,025; Mar. 29; v. 284; p. 951.
- Chemical and medicinal preparations, Certain. Drug Products Co. No. 148,818; Nov. 19.
- Chemical and medicinal preparations, Certain. Industrial Chemical Company. No. 148,866; Nov. 29.
- Chemical and pharmaceutical preparations, Certain. Globe Grocery Stores. No. 145,681; Aug. 16; v. 289; p. 593.
- Chemical carbon-removers. Patterson-Sargent Company. No. 146,324; Sept. 6; v. 290; p. 202.
- Chemical compound. G. W. Drake. No. 139,132; Jan. 25; v. 282; p. 733.
- Chemical compound, Certain. Perolin Company of America. No. 147,146; Oct. 4.
- Chemical compound, Certain. E. M. & F. Waldo. No. 147,713; Oct. 25.
- Chemical compound for removing carbon from gasoline. Energin Company. No. 140,117; Mar. 8; v. 284; p. 364.
- Chemical compound introduced into boiler-water. C. E. Collins. No. 141,904; May 3; v. 286; p. 183.
- Chemical compounds. J. H. Longshore. No. 149,990; Dec. 27.
- Chemical drain opener and cleaner. Pacific Chemical Company. No. 145,003; July 19; v. 288; p. 627.
- Chemical, medicinal, and pharmaceutical preparations. Cooper & Cooper. No. 149,893; Dec. 27.
- Chemical, medicinal, and pharmaceutical preparations. United Drug Company. No. 143,498; May 31; v. 286; p. 1054.
- Chemical, medicinal, and pharmaceutical preparations, Certain. Katzenbach & Bullock Co. No. 148,680; Nov. 22.
- Chemical, medicinal, and toilet preparations, Certain. Red Ball Company. No. 147,151; Oct. 4.
- Chemical, medicinal, and toilet preparations, Certain. C. D. Smith Drug Co. No. 150,112; Dec. 27.
- Chemical, mineral, and vegetable substances. Calco Chemical Company. No. 146,069; Aug. 30; v. 289; p. 1013.
- Chemical preparation. H. J. Lanagan. No. 140,878; Mar. 29; v. 284; p. 946.
- Chemical preparation. Naco Products Co. No. 139,840; Feb. 22; v. 283; p. 754.
- Chemical preparation. Shaub & Howett. No. 146,001; Aug. 23; v. 289; p. 689.
- Chemical preparation. Thomas Bigg Limited. Nos. 146,951-2; Sept. 27; v. 290; p. 803.
- Chemical preparation. Tribinol Chemical Co. No. 140,233; Mar. 8; v. 284; p. 368.
- Chemical preparation carbon-removers. Retlaw Chemical Co., Inc. No. 144,044; June 21; v. 287; p. 582.
- Chemical preparation for protection of cured meat from skippers, &c. E. E. Gooch Manufacturing Co. No. 149,078; Dec. 6.
- Chemical preparation for softening hard water. Kirkman & Son. No. 143,062; May 24; v. 286; p. 847.
- Chemical preparation that imparts a smoky flavor to meats, Liquid. Weldy & Jump. No. 139,909; Feb. 22; v. 283; p. 756.
- Chemical preparation used as a preventive of offsetting and smudging of printing. L. L. Farkas. No. 148,402; Nov. 15.
- Chemical preparations. P. W. Shimer. No. 143,167; May 24; v. 286; p. 851.
- Chemical preparations, Certain. New Jersey Zinc Company. No. 148,184; Nov. 8.
- Chemical sterilizer, deodorizer, and cleanser. Abbott Laboratories, The. No. 145,589; Aug. 16; v. 289; p. 591.
- Chemical substances. Johnson & Sons Manufacturing Chemists. No. 145,701; Aug. 16; v. 289; p. 594.
- Chemical substances and pharmaceutical preparations. F. C. Wood. No. 141,020; Mar. 29; v. 284; p. 950.
- Chemical substances, Certain. Grasselli Chemical Company. No. 147,316; Oct. 11.
- Chemical used in the manufacture of rubber. E. M. & F. Waldo. No. 146,398; Sept. 6; v. 290; p. 204.
- Chemicals. Edgerton Aniline Corporation. No. 140,797; Mar. 29; v. 284; p. 943.
- Chemicals. Hooker Electrochemical Company. No. 139,817; Feb. 22; v. 283; p. 753.
- Chemicals. Monsanto Chemical Works. No. 140,650; Mar. 22; v. 284; p. 746.
- Chemicals. Thomas W. Simmons Company. No. 142,899; May 17; v. 286; p. 642.
- Chemicals. Walker Chemical Company. No. 141,006; Mar. 29; v. 284; p. 949.
- Chemicals and chemical preparations, Certain. L. D. Caulk Company. No. 149,759; Dec. 20.
- Chemicals and medicines. J. W. Foley. No. 140,385; Mar. 15; v. 284; p. 581.
- Chemicals and medicines. United Drug Company. No. 139,417; Feb. 1; v. 283; p. 172.
- Chemicals, Certain. California Alkali Company. No. 146,702; Sept. 20; v. 290; p. 632.
- Chemicals, medicinal and pharmaceutical preparations. Serv-Us Grocery Products Corporation. No. 143,166; May 24; v. 286; p. 851.
- Chemicals, medicines, and pharmaceutical preparations. Chas. Fäzer & Co. No. 142,090; May 3; v. 286; p. 189.
- Chemicals, medicines, and pharmaceutical preparations. C. E. Ising Corporation. No. 141,980; May 3; v. 286; p. 186.
- Chemicals, medicines, and pharmaceutical preparations. Mayer Brothers Drug Company. No. 147,012; Sept. 27; v. 290; p. 805.
- Chemicals, medicines, and pharmaceutical preparations. Shores-Mueller Company. No. 140,968; Mar. 29; v. 284; p. 948.
- Chemicals, medicines, and pharmaceutical preparations. Smith-Faus Drug Co. No. 143,871; June 14; v. 287; p. 402.
- Chemicals, medicines, and toilet preparations. American Laboratories Incorporated. No. 144,337; July 5; v. 288; p. 191.
- Chemicals, pharmaceutical preparations, and dye-colors. Glidden Company. No. 139,798; Feb. 22; v. 283; p. 752.
- Chemicals, pharmaceutical preparations, and dye-colors. Glidden Company. No. 140,130; Mar. 8; v. 284; p. 365.
- Cheviots in the piece. Marshall Field & Company. No. 144,843; July 19; v. 288; p. 620.
- Chewing-gum. Automatic Clerk Company. No. 138,771; Jan. 11; v. 282; p. 375.
- Chewing-gums. American Chic Company. No. 139,440; Feb. 1; v. 283; p. 174.
- Chicks, Live. Smith Standard Company. No. 141,680; Apr. 26; v. 285; p. 783.
- Chili-con-carne. Jacob E. Decker & Sons. No. 142,495; May 17; v. 283; p. 626.
- Chilli sauce, chilli-con-carne, &c. Taylor Tamale Company. No. 149,743; Dec. 20.
- Chilled fresh meats. Improved Chilling and Transport Limited. No. 138,827; Jan. 11; v. 282; p. 376.
- China and porcelain ware. Edwin M. Knowles China Co. No. 144,595; July 12; v. 288; p. 424.
- Chintz. W. H. Brown Son & Co. No. 139,770; Feb. 22; v. 283; p. 751.
- Chisels, nail-sets, punches. H. D. Smith & Company. No. 142,900; May 17; v. 286; p. 642.
- Chlorophyll preparation. Merck & Co. No. 146,116; Aug. 30; v. 289; p. 1014.
- Chocolate. Ideal Cocoa & Chocolate Co. No. 143,251; May 24; v. 286; p. 857.
- Chocolate. Josephine Chocolates Limited. No. 148,101; Nov. 8.
- Chocolate. Klein Chocolate Company. No. 140,709; Mar. 22; v. 284; p. 750.
- Chocolate. Klein Chocolate Company. Nos. 148,113-14; Nov. 8.
- Chocolate. N. V. Stoom Chocolade and Cacaoabriek "Kwatta." No. 145,467; Aug. 2; v. 289; p. 182.
- Chocolate-almond bars. Greig & Glover. No. 143,628; June 7; v. 287; p. 184.
- Chocolate and candy. Pennsylvania Chocolate Company. No. 139,092; Jan. 18; v. 282; p. 560.
- Chocolate and candy. Pennsylvania Chocolate Company. No. 140,664; Mar. 22; v. 284; p. 746.
- Chocolate and candy. Touraine Co. No. 139,041; Jan. 18; v. 282; p. 556.



*Alphabetical list of trade-marks—Continued.*

- Chocolate and chocolate candy. Bachman Chocolate Manufacturing Co. No. 139,672; Feb. 8; v. 283; p. 356.
- Chocolate and cocoa, Milk. Peter Cailler Kohler Swiss Chocolates Co., Inc. No. 144,141; June 21; v. 287; p. 589.
- Chocolate and cocoa, Milk. Peter Cailler Kohler Swiss Chocolates Co. No. 149,788; Dec. 20.
- Chocolate and hard candies. Shoot Chocolate Company. No. 141,677; Apr. 26; v. 285; p. 783.
- Chocolate bars. Dilling & Company. No. 144,743; July 19; v. 288; p. 617.
- Chocolate bars. Dilling & Company. No. 144,745; July 19; v. 288; p. 617.
- Chocolate, candies, and cocoa. J. G. McDonald Chocolate Co. No. 144,665; July 12; v. 288; p. 428.
- Chocolate candy. Hawley & Hoops. No. 139,318; Feb. 1; v. 283; p. 169.
- Chocolate coating. Ideal Cocoa & Chocolate Co. No. 144,802; July 19; v. 288; p. 618.
- Chocolate, cocoa powder and butter. Page & Shaw. No. 146,320; Sept. 6; v. 290; p. 202.
- Chocolate, cocoa-powder, and cocoa-butter. Page & Shaw. No. 145,430; Aug. 2; v. 289; p. 181.
- Chocolate, cocoa-powder, and cocoa-butter. Page & Shaw. No. 148,197; Nov. 8.
- Chocolate-cocanut bars. C. E. Whowell. No. 142,838; May 17; v. 286; p. 636.
- Chocolate creams. Vincennes Candy Company. No. 148,295; Nov. 8.
- Chocolate in cake form. Bishop & Company. No. 149,845; Dec. 27.
- Chocolate, laxative tablet. A. Blackstone. No. 147,548; Oct. 25.
- Chocolate, nut-bars, &c., Sweet. Hooton Chocolate Company. No. 141,575; Apr. 26; v. 285; p. 780.
- Chocolate, Prepared. Maurice Company. No. 147,640; Oct. 25.
- Chocolate, Sweet. Hooton Cocoa Company. No. 148,859; Nov. 29.
- Chocolate, Sweet. Walter Baker & Company. No. 144,544; July 12; v. 288; p. 423.
- Chocolates. D. Auerbach & Sons. No. 138,770; Jan. 11; v. 282; p. 375.
- Chocolates. D. Auerbach & Sons. No. 139,479; Feb. 8; v. 283; p. 349.
- Chocolates. D. Auerbach & Sons. No. 143,280; May 31; v. 286; p. 1047.
- Chocolates. D. Auerbach & Sons. No. 144,692; July 19; v. 288; p. 615.
- Chocolates. D. Auerbach & Sons. No. 145,317; Aug. 2; v. 289; p. 177.
- Chocolates. D. Auerbach & Sons. No. 148,987; Dec. 6.
- Chocolates. Boston Confectionery Company. Nos. 140,331-2; Mar. 15; v. 284; p. 579.
- Chocolates. Boston Confectionery Company. No. 145,933; Aug. 23; v. 289; p. 787.
- Chocolates. Bradas & Gheens. No. 145,614; Aug. 16; v. 289; p. 591.
- Chocolates. A. Hatsoulis. No. 139,547; Feb. 8; v. 283; p. 351.
- Chocolates. Josephine Chocolates, Limited. No. 148,875; Nov. 29.
- Chocolates. Shoot Chocolate Company. No. 146,867; Sept. 20; v. 290; p. 637.
- Chocolates. Touraine Company. No. 149,260; Dec. 6.
- Chocolates. Wallace & Co. No. 138,734; Jan. 4; v. 282; p. 190.
- Chocolates and bonbons. Kilss Candy Company. No. 144,824; July 19; v. 288; p. 619.
- Chocolates and candies. E. Greenfields Sons. No. 139,936; Feb. 22; v. 283; p. 758.
- Chocolates and candies. Littlefield & Steere Co. No. 147,230; Oct. 4.
- Chocolates and candies. J. G. McDonald Chocolate Co. No. 144,126; June 21; v. 287; p. 588.
- Chocolates and candies. J. G. McDonald Chocolate Co. No. 144,128; June 21; v. 287; p. 588.
- Chocolates and candies. Zest Chocolate Co. No. 141,023; Mar. 29; v. 284; p. 950.
- Chocolates and candy. Patterson Candy Co. No. 145,434; Aug. 2; v. 289; p. 181.
- Chocolates, bonbons, and candies. Norris, Inc. No. 138,842; Jan. 11; v. 282; p. 377.
- Chocolates, Cup-. Mexican Products Co. No. 145,744; Aug. 16; v. 289; p. 595.
- Chocolates, hard candies, and glacé fruits. Continental Candy Mfg. Co. No. 147,968; Nov. 8.
- Chocolates of all kinds, chocolate and cocoa powder, &c. E. Plumenail. No. 144,759; July 19; v. 288; p. 617.
- Chocolates, Package-. Rust-Parker Company. No. 139,622; Feb. 8; v. 283; p. 353.
- Chocolates with centers. Rough. L. J. Christopher Co. No. 142,959; May 24; v. 286; p. 844.
- Chucks and collets. McCrosky Tool Corporation. No. 142,597; May 17; v. 286; p. 629.
- Churns. Dazey Churn & Manufacturing Company. Nos. 147,298-9; Oct. 11.
- Cider. Medina Fruit Products Co. Nos. 149,452-3; Dec. 13.
- Cider. Mikessel & Company. No. 139,946; Feb. 22; v. 283; p. 759.
- Cider and carbonated beverage. Hood River Apple Vinegar Co. No. 147,055; Sept. 27; v. 290; p. 808.
- Cider, Apple. Northern Pickle Company. No. 142,642; May 17; v. 286; p. 630.
- Cider, apple-juice, and grape-juice, Apple-. Red Wing Company. No. 139,615; Feb. 8; v. 283; p. 353.
- Cider, Unfermented. A. W. Waugh Fruit Co. No. 144,969; July 19; v. 288; p. 624.
- Cigarette-cases. Presto Cigarette Case Corp. of N. Y. No. 145,179; July 26; v. 288; p. 815.
- Cigarette-paper and cigarette-makers. Waldes & Co. No. 142,820; May 17; v. 286; p. 635.
- Cigarette paper, makers, and tubes. Waldes & Co. Nos. 142,818-19; May 17; v. 286; p. 635.
- Cigarette-papers. Societe Anonyme des Papeteries de Champagne. No. 139,211; Jan. 25; v. 282; p. 736.
- Cigarette papers and mouthpieces. Turmac Turkish Macedonian Tobacco Company. No. 146,894; Sept. 20; v. 290; p. 638.
- Cigarette-papers and tubes for cigarettes. C. E. Pfeiffer. Nos. 149,474-81; Dec. 13.
- Cigarette-papers, portable makers, and tubes. Waldes & Co. No. 142,821; May 17; v. 286; p. 635.
- Cigarettes. Alexander Boguslavsky, Ltd. No. 144,174; June 28; v. 287; p. 773.
- Cigarettes. American Tobacco Company. No. 142,423; May 17; v. 286; p. 623.
- Cigarettes. Ardath Tobacco Company. No. 142,433; May 17; v. 286; p. 624.
- Cigarettes. G. P. Francis. No. 142,585; May 17; v. 286; p. 627.
- Cigarettes. Miranda Limited. No. 142,620; May 17; v. 286; p. 629.
- Cigarettes. J. M. Phillips. No. 143,456; May 31; v. 286; p. 1052.
- Cigarettes. Reed Tobacco Company. No. 139,374; Feb. 1; v. 283; p. 171.
- Cigarettes. F. & E. Soter Corp. No. 144,282; June 28; v. 287; p. 777.
- Cigarettes, cigars, tobacco. Turmac Turkish Macedonian Tobacco Company. No. 144,643; July 12; v. 288; p. 426.
- Cigars. Charles F. Barth, Inc. No. 142,446; May 17; v. 286; p. 624.
- Cigars. Commonwealth Cigar Co. No. 146,716; Sept. 20; v. 290; p. 632.
- Cigars. Congress Cigar Company. No. 149,573; Dec. 13.
- Cigars. Estate of Joseph J. Schaefer. No. 150,206; Dec. 27.
- Cigars. F. Haya. No. 139,938; Feb. 22; v. 283; p. 759.
- Cigars. H. N. Heunser & Son. No. 146,248; Sept. 6; v. 290; p. 200.
- Cigars. Hudson Cigar Company. No. 142,576; May 17; v. 286; p. 628.
- Cigars. King-Ferree Co. No. 142,677; May 17; v. 286; p. 631.
- Cigars. Kraus & Co. No. 142,662; May 17; v. 286; p. 630.
- Cigars. La Nava Cigar Company. No. 142,666; May 17; v. 286; p. 631.
- Cigars. V. Levor. No. 142,669; May 17; v. 286; p. 631.
- Cigars. V. Levor. No. 144,192; June 28; v. 287; p. 774.
- Cigars. Louis King Cigar Company. No. 143,811; June 7; v. 287; p. 192.
- Cigars. J. C. Newman. No. 146,307; Sept. 6; v. 290; p. 201.
- Cigars. Pan-American Cigar Manufacturing Co. No. 146,321; Sept. 6; v. 290; p. 202.
- Cigars. W. F. Pride. No. 142,715; May 17; v. 286; p. 632.
- Cigars. E. F. Requard. Nos. 145,444-5; Aug. 2; v. 289; p. 181.
- Cigars. Ruyera Lopez Cigar Mfg. Co. No. 143,455; May 31; v. 286; p. 1052.
- Cigars. W. M. Siers. No. 140,212; Mar. 8; v. 284; p. 367.
- Cigars. Sociedad Anónima "Romeo y Julieta," Fábrica de Tabacos. No. 149,808; Dec. 20.
- Cigars. Stoddard, Gilbert & Co. No. 142,780; May 17; v. 286; p. 634.
- Cigars. J. G. D. Thoma. No. 142,793; May 17; v. 286; p. 634.
- Cigars. E. S. Wilson. No. 139,964; Feb. 22; v. 283; p. 761.
- Cigars. E. S. Wilson. No. 145,299; July 26; v. 288; p. 826.
- Cigars and cigarettes. F. Clarke. No. 144,180; June 28; v. 287; p. 773.
- Cigars, cigarettes, and manufactured tobacco. R. G. Sullivan Estate. No. 150,207; Dec. 27.
- Cigars, cigarettes, tobacco. Bayuk Bros. No. 145,250; July 26; v. 288; p. 820.
- Cigars, cigarettes, tobacco. Sidney J. Freeman & Sons. No. 144,396; July 5; v. 288; p. 193.
- Cigars, tobacco, &c. D. S. Saqui. No. 143,459; May 31; v. 286; p. 1052.
- Clamp for electric conductors, Ground-. Alloy Metal Stamping & Specialty Company. No. 145,307; Aug. 2; v. 289; p. 177.
- Clamps, Hand-. Cincinnati Tool Co. No. 140,773; Mar. 29; v. 284; p. 942.



*Alphabetical list of trade-marks—Continued.*

- Clarinet and saxophone mouthpieces. Woodwind Company. No. 141,519; Apr. 26; v. 285; p. 794.
- Clarinets and saxophones. Mouthpieces and reeds for. Woodwind Company. No. 144,980; July 19; v. 288; p. 624.
- Clasps, Lingerie. Kestenman Bros. Mfg. Co. No. 149,784; Dec. 20.
- Clay, Colloidal. W. Feldenheimer. No. 141,120; Apr. 12; v. 285; p. 380.
- Clay compound. A. W. Lowrie. No. 142,011; May 3; v. 286; p. 187.
- Clay for pottery and for paper-makers. English China Clays Sales Corporation. No. 143,943; June 21; v. 287; p. 579.
- Clay products, Pressed. Los Angeles Pressed Brick Co. No. 146,043; Aug. 23; v. 289; p. 793.
- Clay used as a filler in the manufacture of paper. R. T. Vanderbilt, Inc. No. 140,689; Mar. 22; v. 284; p. 747.
- Cleaner and metal and glass polish, Dry. D. A. Holcomb. No. 144,228; June 28; v. 287; p. 775.
- Cleaner and polish. Federal Chemical Co. No. 139,933; Feb. 22; v. 283; p. 758.
- Cleaner and polish for white leather shoes. A. E. Perkins Corporation. No. 147,368; Oct. 11.
- Cleaner for cars, &c. Prepared. Sauderite Manufacturing Company. No. 142,747; May 17; v. 286; p. 633.
- Cleaner for cleaning metal before electroplating same. Frontier Chemical Co. No. 148,835; Nov. 29.
- Cleaner-polish and restorative, Preservative. R. V. Lull. No. 149,993; Dec. 27.
- Cleaner. White-shoe and straw-hat. B. Ettenson. No. 141,352; Apr. 19; v. 285; p. 566.
- Cleaners, Mechanical spark-plug. W. R. Brewer. No. 147,555; Oct. 25.
- Cleaners, Vacuum-. Electric Vacuum Cleaner Company. No. 140,373; Mar. 15; v. 284; p. 581.
- Cleaners, Vacuum-. United Electric Company. No. 146,383; Sept. 6; v. 290; p. 204.
- Cleaners with tools and appurtenances and turbo-compressors, Vacuum-. Spencer Turbine Company. No. 140,976; Mar. 29; v. 284; p. 948.
- Cleaning and polishing compound for automobiles, furniture, &c. M. Larsen. No. 140,162; Mar. 8; v. 284; p. 366.
- Cleaning and polishing furniture, floors, &c., Polish for. Channell Chemical Company. Nos. 149,874-5; Dec. 27.
- Cleaning and scouring powder. Eldridge Chemical Company. No. 145,085; July 26; v. 288; p. 813.
- Cleaning and scouring preparation. Fitzpatrick Bros. Nos. 139,534-5; Feb. 8; v. 283; p. 351.
- Cleaning and scouring preparation. Fitzpatrick Bros. No. 145,360; Aug. 2; v. 289; p. 178.
- Cleaning and scouring preparation. Fitzpatrick Bros. No. 147,311; Oct. 11.
- Cleaning and scouring preparation for household use, machinery, &c. Fitzpatrick Bros. No. 144,215; June 28; v. 287; p. 774.
- Cleaning carpets, rugs, linoleum, &c., Liquid or paste for. W. L. Arthur. No. 140,737; Mar. 29; v. 284; p. 941.
- Cleaning clothing, Liquid for. L. V. Nicholas Oil Company. No. 149,185; Dec. 6.
- Cleaning composition for fabrics. Diozine Chemical Co. No. 144,187; June 28; v. 287; p. 774.
- Cleaning compound. J. H. Parsons Chemical Company. No. 145,432; Aug. 2; v. 289; p. 181.
- Cleaning compound. R. A. Raymond. No. 148,935; Nov. 29.
- Cleaning compound. T. A. Theard. No. 142,792; May 17; v. 286; p. 634.
- Cleaning compound for rugs, clothes, &c. Hy-Gn Manufacturing Co. No. 138,825; Jan. 11; v. 282; p. 376.
- Cleaning compound, Liquid-form. M. M. Goldstein. No. 144,780; July 19; v. 288; p. 618.
- Cleaning compounds, Rug, &c. The Mephisto Products Company. No. 138,669; Jan. 4; v. 282; p. 188.
- Cleaning fluid. M. Bateson. No. 142,236; May 10; v. 286; p. 403.
- Cleaning fluid for painted and varnished automobiles, pianos, and furniture-surfaces. C. E. Murphy. No. 143,409; May 31; v. 286; p. 1051.
- Cleaning fluid, Non-inflammable. W. B. Sleeper. No. 149,238; Dec. 6.
- Cleaning fluids, black-leather polish, auto-top dressing. E. K. Lincoln. No. 148,139; Nov. 8.
- Cleaning garments, Apparatus for. Neslo Dry Cleaner Manufacturing Company. No. 142,639; May 17; v. 286; p. 630.
- Cleaning material for gloves, shoes, &c. Eveready Mfg. Co. No. 140,119; Mar. 8; v. 284; p. 364.
- Cleaning-polish for metal and glass. Western Sierra Products Company. No. 143,775; June 7; v. 287; p. 188.
- Cleaning, polishing, and dressing compound for automobiles and furniture. Mountain States Rubber Company. No. 147,799; Nov. 1.
- Cleaning-powder. L. E. Short. No. 143,467; May 31; v. 286; p. 1053.
- Cleaning-powders and soap detergents, glass-powder, &c. Thos. Hubback & Son. No. 148,082; Nov. 8.
- Cleaning preparation for cleaning carpets, rugs, &c. S. Krojer. No. 148,682; Nov. 22.
- Cleaning preparation for leather and fabric. U. S. Specialty Manufacturing Company. No. 147,061; Sept. 27; v. 290; p. 808.
- Cleaning preparation for metal surfaces, Oily. Superior Laboratories. No. 141,242; Apr. 12; v. 285; p. 384.
- Cleaning preparation for varnished surfaces. Wilson Imperial Company. No. 139,055; Jan. 18; v. 282; p. 556.
- Cleaning, scouring, and polishing wads, pads, rolls, and cloths. Brillo Manufacturing Company. No. 142,947; May 24; v. 286; p. 844.
- Cleaning, &c., wads, pads, rolls, and cloths. Brillo Manufacturing Company. No. 141,499; Apr. 26; v. 285; p. 778.
- Cleanser, Bathroom and kitchen. Douglas Nu-Wa Co. No. 140,110; Mar. 8; v. 284; p. 364.
- Cleanser, Chemical. Moline Chemical Company. No. 147,371; Oct. 11.
- Cleanser for automobiles, furniture, &c. Nature Polish Company. No. 142,067; May 3; v. 286; p. 188.
- Cleanser for fabrics. Charles McAdam Company. No. 142,594; May 17; v. 286; p. 628.
- Cleanser for fabrics, gloves, &c. J. H. Croxton. No. 147,976; Nov. 8.
- Cleanser for hands, silverware, shampoo, &c. Usit Manufacturing Co. of America. No. 140,241; Mar. 8; v. 284; p. 368.
- Cleanser, sanitary dish-washing compounds, soap flakes, &c. Citizens Wholesale Supply Company. No. 147,961; Nov. 8.
- Cleansing and polishing base, Non-abrasive, absorbent. L. V. Slight. No. 143,069; May 24; v. 286; p. 848.
- Cleansing composition and soap. Paget Manufacturing Company. No. 145,771; Aug. 16; v. 289; p. 596.
- Cleansing compound. Hysan Manufacturing Co. No. 148,864; Nov. 29.
- Cleansing compound for cleaning and restoring color to oriental rugs, clothing, &c. M. McDermott. No. 148,149; Nov. 8.
- Cleansing fluid for woodwork, furniture, &c. F. A. Coppock. No. 139,127; Jan. 25; v. 282; p. 733.
- Cleansing material for hands and skin. Oliver Oil-Gas Burner & Machine Co. No. 147,663; Oct. 25.
- Cleansing preparation for silverware, glass, &c. Nuro Silver Co. No. 150,031; Dec. 27.
- Cleansing, scouring, and polishing powder for metals, glass, &c. Texas Oil, Gas & Mineral Products Company. No. 141,446; Apr. 19; v. 285; p. 569.
- Cleavers. American Tap and Die Co. No. 145,028; July 26; v. 288; p. 811.
- Cloaks, suits, and evening-wraps for women. Blogg & Littauer. No. 142,859; May 17; v. 286; p. 638.
- Clock and watch dials. T. Bargman. No. 141,083; Apr. 12; v. 285; p. 379.
- Clock-cases. H. H. Cutting. No. 147,582; Oct. 25.
- Clocks and watches. Buser and Company. No. 146,189; Sept. 6; v. 290; p. 198.
- Clocks and watches. Marshall-Wells Company. No. 142,612; May 17; v. 286; p. 629.
- Cloth and washable-fabric suits, overcoats, and trousers. E. Byrnes. No. 148,370; Nov. 15.
- Cloth-cutting machines. Electric. Simplex Cloth Cutting Machine Co. No. 140,541; Mar. 15; v. 284; p. 587.
- Cloth-hangers, garment stretchers and supports, &c. R. Otto. No. 144,020; June 21; v. 287; p. 581.
- Cloth in the piece, Long-. R. H. Macy & Co. No. 140,292; Mar. 8; v. 284; p. 373.
- Cloth, Jersey. Continental Mills. No. 147,843; Nov. 1.
- Cloth used for polishing metal. A. Werner. No. 147,428; Oct. 11.
- Cloths and fabrics in the piece, Certain. American Cellulose & Chemical Manufacturing Company. No. 146,689; Sept. 20; v. 290; p. 631.
- Cloths and fabrics in the piece, Certain. American Cellulose & Chemical Manufacturing Company. No. 149,817; Dec. 27.
- Cloths and stuffs of wool and worsted and hair. W. A. James. No. 140,614; Mar. 22; v. 284; p. 745.
- Cloths and stuffs of wool in the piece. The Scottish Woollen Trade Mark Association. No. 139,383; Feb. 1; v. 283; p. 171.
- Cloths for use on windshields of vehicles, &c., to prevent the accumulation of rain and moisture. Prepared. B. J. S. Specialty Company. No. 148,360; Nov. 15.
- Clothes, Men's. Kahn Tailoring Company. No. 146,040; Aug. 23; v. 289; p. 793.
- Clothes, Men's outer. M. Gordon. No. 144,783; July 19; v. 288; p. 618.
- Clothes-washing powder. Wash With Ease Company. No. 149,622; Dec. 13.
- Clothes, Workmen's. Knorr-Schlaut Wholesale Co. No. 145,563; Aug. 9; v. 289; p. 408.
- Clothesline-posts. Metal. Pfaff & Kendall. No. 140,934; Mar. 29; v. 284; p. 944.
- Clotheslines. Tribble Cordage Mills. No. 147,738; Oct. 25.
- Clothespins, Wooden. Escanaba Manufacturing Company. No. 139,135; Jan. 25; v. 282; p. 734.
- Clothiers' linings in the piece. B. Goldstein & Co. No. 140,132; Mar. 8; v. 284; p. 365.
- Clothing. American Wholesale Corporation (Baltimore Bargain House). No. 142,186; May 3; v. 286; p. 192.



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- Clothing. Avedon & Company. No. 138,939; Jan. 18; v. 282; p. 553.
- Clothing. Branigan, Green & Co. No. 148,364; Nov. 15.
- Clothing. Brownstein-Louis Company. No. 145,510; Aug. 9; v. 289; p. 407.
- Clothing. Brummel & Mendelsohn. No. 145,543; Aug. 9; v. 289; p. 407.
- Clothing. B. Damsey. No. 138,603; Jan. 4; v. 282; p. 186.
- Clothing. Edson Moore & Company. No. 140,651; Mar. 22; v. 284; p. 746.
- Clothing. Favorite Knitting Company. No. 141,119; Apr. 12; v. 285; p. 380.
- Clothing. Franklin Simon & Co. No. 144,055; June 21; v. 287; p. 582.
- Clothing. Franklin Simon & Co. No. 146,870; Sept. 20; v. 290; p. 637.
- Clothing. A. Fuchs. No. 145,671; Aug. 16; v. 289; p. 593.
- Clothing. George Borgfeldt & Co. No. 145,538; Aug. 9; v. 289; p. 407.
- Clothing. Globe Shirt & Overall Company. No. 143,021; May 24; v. 286; p. 846.
- Clothing. M. R. Gray. No. 149,083; Dec. 6.
- Clothing. A. S. W. Grundy. No. 141,131; Apr. 12; v. 285; p. 381.
- Clothing. Ham Myers & Co. No. 144,016; June 21; v. 287; p. 581.
- Clothing. Harley-Davidson Motor Co. No. 141,757; Apr. 26; v. 285; p. 788.
- Clothing. Jordan Marsh Company. No. 141,148; Apr. 12; v. 285; p. 381.
- Clothing. Kirschenbaum Corporation, The. No. 148,459; Nov. 15.
- Clothing. A. Krolik & Company. No. 141,400; Apr. 19; v. 285; p. 568.
- Clothing. La France Novelty Co., Inc., (now by change of name Alphen, Inc.) No. 141,157; Apr. 12; v. 285; p. 381.
- Clothing. Liberty Manufacturing Company. No. 148,464; Nov. 15.
- Clothing. Lubelski & Sons. No. 140,877; Mar. 29; v. 284; p. 945.
- Clothing. Macey Company. No. 139,461; Feb. 1; v. 283; p. 176.
- Clothing. Manes & Oppenheimer. No. 148,475; Nov. 15.
- Clothing. Meyer Liberman. No. 139,945; Feb. 22; v. 283; p. 759.
- Clothing. J. A. Migel, Inc. No. 142,886; May 17; v. 286; p. 640.
- Clothing. J. A. Migel, Inc. No. 145,567; Aug. 9; v. 289; p. 408.
- Clothing. P. Moskowitz. No. 140,492; Mar. 15; v. 284; p. 584.
- Clothing. C. Munter. No. 145,568; Aug. 9; v. 289; p. 408.
- Clothing. New Era Shirt Co. No. 143,117; May 24; v. 286; p. 849.
- Clothing. A. M. Oppenheim. No. 147,879; Nov. 1.
- Clothing. F. A. Patrick & Co. No. 143,522; May 31; v. 286; p. 1055.
- Clothing. J. C. Penney Company. No. 144,024; June 21; v. 287; p. 581.
- Clothing. Peter Scott and Company. No. 142,752; May 17; v. 286; p. 633.
- Clothing. W. H. Redwine. No. 144,040; June 21; v. 287; p. 582.
- Clothing. Robert Reis & Co. No. 145,798; Aug. 16; v. 289; p. 597.
- Clothing. Rice-Stix Dry Goods Company. No. 141,803; Apr. 26; v. 285; p. 792.
- Clothing. Robertson, Ledlie, Ferguson & Co. No. 142,112; May 3; v. 286; p. 190.
- Clothing. M. Rosenthal. No. 145,801; Aug. 16; v. 289; p. 597.
- Clothing. Sanger Brothers. No. 142,327; May 10; v. 286; p. 406.
- Clothing. J. Schoeneman, Incorporated. No. 146,865; Sept. 20; v. 290; p. 637.
- Clothing. Scotsmoor Company. Nos. 144,274-5; June 28; v. 287; p. 776.
- Clothing. Société Anonyme Tissage et Bonneterie de Troyes. No. 141,683; Apr. 26; v. 285; p. 783.
- Clothing. A. F. Sterne. No. 144,065; June 21; v. 287; p. 582.
- Clothing. United States and South America Corporation. No. 145,844; Aug. 16; v. 289; p. 598.
- Clothing. United Turkey Red Company. No. 148,553; Nov. 15.
- Clothing. Western Dry Goods Co. No. 144,971; July 19; v. 288; p. 624.
- Clothing. Wyman Partridge & Co. No. 141,820; Apr. 26; v. 285; p. 794.
- Clothing. Yorkshire Knitting Co. Inc. No. 147,891; Nov. 1.
- Clothing and gents' furnishing goods. When Clothing Company. No. 146,911; Sept. 20; v. 290; p. 638.
- Clothing. Articles of. D. Ades. No. 146,665; Sept. 20; v. 290; p. 631.
- Clothing. Articles of. The Best Mills Co. No. 144,516; July 5; v. 288; p. 198.
- Clothing. Articles of. Black Cat Textiles Company, (now by change of name The Allen A. Company.) No. 140,752; Mar. 29; v. 284; p. 942.
- Clothing. Articles of. Case-Fischer Manufacturing Company. No. 142,248; May 10; v. 286; p. 403.
- Clothing. Articles of. Chain Shirt Shops. No. 142,487; May 17; v. 286; p. 625.
- Clothing. Articles of. Ely & Walker Dry Goods Company. No. 143,329; May 31; v. 286; p. 1048.
- Clothing. Articles of. Frank Howard Mfg. Co. No. 140,401; Mar. 15; v. 284; p. 581.
- Clothing. Articles of. Freedman & Co. No. 140,268; Mar. 8; v. 284; p. 371.
- Clothing. Articles of. C. W. Grosner. No. 143,030; May 24; v. 286; p. 846.
- Clothing. Articles of. Guthrie & Company. No. 145,375; Aug. 2; v. 289; p. 179.
- Clothing. Articles of. H & W Company. No. 142,371; May 10; v. 286; p. 408.
- Clothing. Articles of. Hall, Hartwell & Co. Nos. 144,410-11; July 5; v. 288; p. 193.
- Clothing. Articles of. Harris, Friedman & Company. No. 141,955; May 3; v. 286; p. 185.
- Clothing. Articles of. Henry Isaacs, Inc. No. 139,082; Jan. 18; v. 282; p. 559.
- Clothing. Articles of. Henry Martin Company. No. 140,481; Mar. 15; v. 284; p. 584.
- Clothing. Articles of. William Hollins & Company. No. 146,578; Sept. 13; v. 290; p. 421.
- Clothing. Articles of. James A. Hearn & Son. No. 143,638; June 7; v. 287; p. 184.
- Clothing. Articles of. J. A. Migel, Inc. No. 140,487; Mar. 15; v. 284; p. 584.
- Clothing. Articles of. John H. Leich Co. No. 145,398; Aug. 2; v. 289; p. 180.
- Clothing. Articles of. Lack Manufacturing Company. No. 141,590; Apr. 26; v. 285; p. 780.
- Clothing. Articles of. Liberty & Co. No. 146,583; Sept. 13; v. 290; p. 422.
- Clothing. Articles of. Liberty Manufacturing Co. No. 146,281; Sept. 6; v. 290; p. 201.
- Clothing. Articles of. Mechanische Trikotweberei Stuttgart Ludwig Maier & Co. No. 141,412; Apr. 19; v. 285; p. 568.
- Clothing. Articles of. Miller Rubber Company. No. 142,380; May 10; v. 286; p. 409.
- Clothing. Articles of. F. A. Patrick & Co. No. 142,385; May 10; v. 286; p. 410.
- Clothing. Articles of. Rialto Clothing Co. No. 143,439; May 31; v. 286; p. 1052.
- Clothing. Articles of. J. Schoeneman, Inc. No. 140,206; Mar. 8; v. 284; p. 367.
- Clothing. Articles of. J. B. Simpson. No. 144,935; July 19; v. 288; p. 623.
- Clothing. Articles of. Slonim Brothers. No. 139,885; Feb. 22; v. 283; p. 755.
- Clothing. Articles of. Sonny Blouse Co. No. 140,438; Mar. 15; v. 284; p. 583.
- Clothing. Articles of. Tom Wye Inc. No. 139,439; Feb. 1; v. 283; p. 173.
- Clothing. Articles of. Vanity Fair Silk Mills. No. 141,456; Apr. 19; v. 285; p. 569.
- Clothing. Articles of. Wm. Filene's Sons Company. No. 146,223; Sept. 6; v. 290; p. 199.
- Clothing. Articles of. "Young Men's Shop." No. 142,398; May 10; v. 286; p. 411.
- Clothing. Articles of. S. Zalis. No. 142,399; May 10; v. 286; p. 411.
- Clothing. Boys'. Greenblat & Gold. No. 143,967; June 21; v. 287; p. 579.
- Clothing. Boys' outer. Phil. Walcoff & Co. No. 145,201; July 26; v. 288; p. 816.
- Clothing. Certain. Maass & Kemper. No. 145,738; Aug. 16; v. 289; p. 595.
- Clothing. Certain. R. E. Tyson. No. 145,843; Aug. 16; v. 289; p. 598.
- Clothing. Certain articles of. Bally Co. Nos. 148,993-4; Dec. 6.
- Clothing. Certain articles of. Bernhard Ulmann Co. No. 147,421; Oct. 11.
- Clothing. Certain articles of. Commercial Trading Company. Nos. 146,712-15; Sept. 20; v. 290; p. 632.
- Clothing. Certain articles of. J. Eskind & Sons. No. 147,307; Oct. 11.
- Clothing. Certain articles of. Franklin Simon & Co. No. 147,405; Oct. 11.
- Clothing. Certain articles of. John Scowcroft & Sons. No. 149,328; Dec. 6.
- Clothing. Certain articles of. J. M. Klein. No. 149,131; Dec. 6.
- Clothing. Certain articles of. L. H. Lewis Company. No. 148,888; Nov. 29.
- Clothing. Certain articles of. McCawley and Co. No. 147,352; Oct. 11.
- Clothing. Certain articles of. F. A. Patrick & Co. No. 143,913; Nov. 29.
- Clothing. Certain articles of. Pfeifer Brothers. No. 149,325; Dec. 6.
- Clothing. Certain articles of. Richard Haworth and Company. No. 145,797; Aug. 16; v. 289; p. 597.
- Clothing. Certain articles of. Sait's Textile Manufacturing Company. No. 147,679; Oct. 25.



- Clothing, Certain articles of. United Turkey Red Company. No. 147,423; Oct. 11.
- Clothing, Certain articles of. William Hollins & Co. No. 147,857; Nov. 1.
- Clothing, Children's outer. H. D. Silberman. No. 143,468; May 31; v. 286; p. 1053.
- Clothing for outer wear, Men's and boys'. B. B. Goodman. No. 143,351; May 31; v. 286; p. 1049.
- Clothing for physicians, dentists, &c., Certain articles of. J. J. Stein. No. 147,697; Oct. 25.
- Clothing for women, misses, and children. D. E. Sicher & Co. No. 138,704; Jan. 4; v. 282; p. 189.
- Clothing, Infants'. Attias Brothers. No. 148,784; Nov. 29.
- Clothing, Men's. American Fashion Clothes. No. 146,671; Sept. 20; v. 290; p. 631.
- Clothing, Men's. Sam Adelman & Co. No. 148,970; Dec. 6.
- Clothing, Men's. Baren, Lehrman & Berler. No. 147,271; Oct. 11.
- Clothing, Men's and boys'. J. B. Fractman. No. 141,939; May 3; v. 286; p. 184.
- Clothing, Men's and boys'. Herzfeld-Phillipson Company. No. 143,643; June 7; v. 287; p. 184.
- Clothing, Men's and boys'. Hilton Company. Nos. 143,980-1; June 21; v. 287; p. 580.
- Clothing, Men's and boy's outing. Cal Hirsch & Sons Mercantile Co. No. 142,567; May 17; v. 286; p. 628.
- Clothing, Men's outer. Raab Brothers. No. 140,942; Mar. 29; v. 284; p. 947.
- Clothing, Men's summer. Bloom and Horner. No. 144,351; July 5; v. 288; p. 191.
- Clothing, Men's, youths' and boys'. Makover, Roten & Company. No. 143,997; June 21; v. 287; p. 580.
- Clothing—namely, stockings and socks. A. I. Ludwig. No. 147,460; Oct. 18.
- Clothing, White duck and drill. James E. Richards Company. No. 144,267; June 28; v. 287; p. 776.
- Clutch-facings and brake-linings. Durwyllan Co. No. 145,653; Aug. 16; v. 289; p. 593.
- Coal. Enterprise Coal Company. No. 143,944; June 21; v. 287; p. 579.
- Coal. Graphite Mines Corporation. No. 149,082; Dec. 6.
- Coal. Loony Creek Coal Company. Nos. 148,466-7; Nov. 15.
- Coal. D. E. McMillan & Bro. No. 149,996; Dec. 27.
- Coal. Roth Coal Company. No. 149,725; Dec. 20.
- Coal. St. Louis Coal Co. No. 142,337; May 10; v. 286; p. 406.
- Coal. Speltz Grain & Coal Co. No. 139,396; Feb. 1; v. 283; p. 172.
- Coal and coke. Douglass Barnes Corporation. No. 142,445; May 17; v. 286; p. 624.
- Coal and coke. Douglass Barnes Corporation. No. 143,317; May 31; v. 286; p. 1048.
- Coal and coke. Red Jacket Consolidated Coal and Coke Company. No. 148,938; Nov. 29.
- Coal, Bituminous. International Coal & Mining Co. No. 145,699; Aug. 16; v. 289; p. 594.
- Coal, Bituminous. Raleigh Smokeless Fuel Company. No. 148,224; Nov. 8.
- Coal-cutting machines and coal and ore conveying machinery. Goodman Manufacturing Company. No. 141,752; Apr. 26; v. 285; p. 787.
- Coal to facilitate combustion, Composition to be sprinkled over. Less-Koal Manufacturing Company. No. 148,683; Nov. 22.
- Coal-tar colors. H. Kohnstamm & Co. No. 147,122; Oct. 4.
- Coal-tar dyes. H. Kohnstamm & Co. No. 147,123; Oct. 4.
- Coals, Anthracite and bituminous. East Brothers Coal Co. No. 143,939; June 21; v. 287; p. 579.
- Coaster-sleds. G. E. Pollock. No. 150,060; Dec. 27.
- Coasters. American Novelty Co. No. 141,839; May 3; v. 286; p. 181.
- Coating. Floyd Wells Co. No. 140,243; Mar. 8; v. 284; p. 368.
- Coating. Joseph Dixon Crucible Company. No. 140,109; Mar. 8; v. 284; p. 364.
- Coatings of a paint nature, Roof and surface. The Harvey Oil Company. No. 139,546; Feb. 8; v. 283; p. 351.
- Coats. McKibbin, Driscoll & Dorsey. No. 143,996; June 21; v. 287; p. 580.
- Coats and suits for men and women. Angora Specialty Company, Inc. No. 147,906; Nov. 8.
- Coats and suits, Ladies'. J. Dorf. No. 140,585; Mar. 22; v. 284; p. 744.
- Coats, Children's rain-proof. Cohen, Goldstein & Co. No. 138,756; Jan. 4; v. 282; p. 191.
- Coats, cloaks, &c., Women's children's, and infants'. Salt's Textile Manufacturing Company. No. 141,212; Apr. 12; v. 285; p. 383.
- Coats for ladies and misses, Plush. John & James Dobson. No. 147,844; Nov. 1.
- Coats, Girls'. H. Goldwater & Co. No. 142,370; May 10; v. 286; p. 408.
- Coats, Heath. American Hosiery Company. No. 144,301; June 28; v. 287; p. 779.
- Coats, Infants' and children's. Le Rose Co., The. No. 141,403; Apr. 19; v. 285; p. 568.
- Coats, Men's, women's, and children's. B. Bernson. No. 145,607; Aug. 16; v. 289; p. 591.
- Coats, Motor-. Michigan Motor Garment Co. No. 140,629; Mar. 22; v. 284; p. 745.
- Coats, pants, overalls. Klimax Overall Company. No. 141,586; Apr. 26; v. 285; p. 780.
- Coats, pants, overcoats. A. Shirek & Sons. No. 140,057; Mar. 1; v. 284; p. 178.
- Coats, pants, vests, overcoats. Artcraft Clothes, Inc. No. 147,540; Oct. 25.
- Coats, Sheepskin-lined. Lanpher, Skinner and Company. No. 144,326; June 28; v. 287; p. 781.
- Coats, shirts, pants, and trousers, overalls, Work. Free-land Overall Manufacturing Co. No. 149,065; Dec. 6.
- Coats, suits, and skirts, Ladies'. H. & I. Ottenstein. No. 144,021; June 21; v. 287; p. 581.
- Coats, trousers, &c. J. J. Preis & Co. No. 138,918; Jan. 11; v. 282; p. 382.
- Coats, trousers, vests, &c. Louis Holtz & Sons. No. 145,692; Aug. 16; v. 289; p. 594.
- Coats, trousers, vests, and suits, &c. M & M Company. No. 144,136; June 21; v. 287; p. 589.
- Coats, vests, and trousers, for men. Kahn Tailoring Company. No. 149,129; Dec. 6.
- Coats, vests, pants, and overcoats, Men's. Rosenberg Bros. & Co. No. 148,709; Nov. 22.
- Coats, vests, pants, overcoats, Men's. Rosenberg Bros. & Co. No. 148,525; Nov. 15.
- Coats, vests, trousers, &c. Miller Bros. No. 139,348; Feb. 1; v. 283; p. 170.
- Coats, vests, trousers, and overcoats. M. Swartz & Sons. No. 149,805; Dec. 20.
- Coats, vests, trousers, overcoats, raincoats. Hart, Schaffner & Marx. No. 139,097; Jan. 18; v. 282; p. 560.
- Cocoa. Ideal Cocoa & Chocolate Co. Nos. 141,760-1; Apr. 26; v. 285; p. 788.
- Cocoa. J. G. McDonald Chocolate Co. No. 139,085; Jan. 18; v. 282; p. 559.
- Cocoa. Norma Chocolate Company. No. 139,359; Feb. 1; v. 283; p. 170.
- Cocoa. Runkel Brothers. No. 139,695; Feb. 8; v. 283; p. 358.
- Cocoa. C. J. Van Houten & Zoon. No. 146,390; Sept. 6; v. 290; p. 204.
- Cocoa and chocolate. Peter Cailler Kohler Swiss Chocolate Co. No. 143,260; May 24; v. 286; p. 858.
- Cocoa-butter cream. Klinker Manufacturing Co. No. 140,156; Mar. 8; v. 284; p. 365.
- Cocoa powder, Prepared. The Cocoa Products Co. No. 141,900; May 3; v. 286; p. 183.
- Cocoa, Prepared. Crandall Pettet Co., The. No. 145,885; Aug. 16; v. 289; p. 601.
- Cocoonut-oil, Edible. Procter and Gamble Company. No. 148,218; Nov. 8.
- Coffee. Adam Roth Grocery Company. No. 141,649; Apr. 26; v. 285; p. 782.
- Coffee. F. S. Ainsa Company. No. 145,305; Aug. 2; v. 289; p. 177.
- Coffee. J. Aron & Company. No. 149,823; Dec. 27.
- Coffee. J. H. Bailey. No. 141,485; Apr. 26; v. 285; p. 777.
- Coffee. J. H. Bailey. No. 148,568; Nov. 15.
- Coffee. Barrett Brothers Company. No. 140,745; Mar. 29; v. 284; p. 941.
- Coffee. The Caldwell Importing Co. No. 144,991; July 19; v. 288; p. 626.
- Coffee. Campbell, Holton & Company. No. 139,262; Feb. 1; v. 283; p. 168.
- Coffee. Cardona, Morey and Craig. No. 145,332; Aug. 2; v. 289; p. 178.
- Coffee. Chase & Sanborn. No. 147,463; Oct. 18.
- Coffee. Coffee Dan's Inc. No. 146,200; Sept. 6; v. 290; p. 198.
- Coffee. Commonwealth Coffee Company. No. 139,509; Feb. 8; v. 283; p. 350.
- Coffee. Commonwealth Coffee Company. No. 144,733; July 19; v. 288; p. 616.
- Coffee. The Continental Coffee Company. No. 139,279; Feb. 1; v. 283; p. 168.
- Coffee. G. G. Cornwell & Son. No. 142,482; May 17; v. 286; p. 625.
- Coffee. G. G. Cornwell & Son. No. 144,371; July 5; v. 288; p. 192.
- Coffee. Davidson-Lake Tea and Coffee Co. No. 146,722; Sept. 20; v. 290; p. 633.
- Coffee. Early-Stratton Co. No. 138,612; Jan. 4; v. 282; p. 186.
- Coffee. Early-Stratton Co. No. 145,083; July 26; v. 288; p. 813.
- Coffee. El Reno Wholesale Grocery Company. No. 139,528; Feb. 8; v. 283; p. 350.
- Coffee. Faria, Costa & Co. No. 142,518; May 17; v. 286; p. 626.
- Coffee. Fort Smith Coffee Company. No. 148,029; Nov. 8.
- Coffee. Fred Wolferman Good Things to Eat Co. No. 150,185; Dec. 27.
- Coffee. F. H. Gibson. No. 142,268; May 10; v. 286; p. 404.
- Coffee. Gilmers Incorporated. No. 143,615; June 7; v. 287; p. 183.
- Coffee. Gold Cross Coffee Company. No. 144,778; July 19; v. 288; p. 618.



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- Coffee. E. C. Harley Company. No. 141,954; May 3; v. 286; p. 185.  
 Coffee. C. A. Herink. No. 149,679; Dec. 20.  
 Coffee. Hughes & Adams. No. 142,578; May 17; v. 286; p. 628.  
 Coffee. Jimenez y Fernandez. No. 140,801; Mar. 29; v. 284; p. 943.  
 Coffee. Kelly Brothers. No. 146,269; Sept. 6; v. 290; p. 200.  
 Coffee. T. A. Lamb Company. No. 138,657; Jan. 4; v. 282; p. 188.  
 Coffee. T. A. Lamb Company. No. 139,564; Feb. 8; v. 283; p. 351.  
 Coffee. Levering Coffee Co. No. 141,593; Apr. 26; v. 285; p. 781.  
 Coffee. Marlborough Coffee Co. No. 144,241; June 28; v. 287; p. 775.  
 Coffee. Merryweather Coffee, Tea & Spice Co. No. 141,413; Apr. 19; v. 285; p. 568.  
 Coffee. Merryweather Coffee, Tea & Spice Co. No. 145,278; July 26; v. 288; p. 823.  
 Coffee. Mohler Bros. Coffee Company. No. 150,011; Dec. 27.  
 Coffee. A. H. Niolon & Son. No. 139,589; Feb. 8; v. 283; p. 352.  
 Coffee. Pearl Coffee Company. No. 148,207; Nov. 8.  
 Coffee. O. W. Peirce Company. No. 143,867; June 14; v. 287; p. 401.  
 Coffee. Pennsylvania Coffee Company. No. 144,448; July 5; v. 288; p. 194.  
 Coffee. I. D. Richheimer. No. 150,076; Dec. 27.  
 Coffee. Scherer & Flx. No. 140,430; Mar. 15; v. 284; p. 582.  
 Coffee. Schon, Stevenson and Company. No. 148,922; Nov. 29.  
 Coffee. J. K. Smith & Co. No. 145,904; Aug. 16; v. 289; p. 603.  
 Coffee. G. Sponberg. No. 143,265; May 24; v. 286; p. 858.  
 Coffee. John A. Tolman & Company. No. 144,483; July 5; v. 288; p. 195.  
 Coffee. A. Triantafylakos. No. 146,011; Aug. 23; v. 289; p. 789.  
 Coffee. H. W. Tucker. No. 148,284; Nov. 8.  
 Coffee. Vinson Coffee Company. No. 150,154; Dec. 27.  
 Coffee. Waples-Platter Grocer Company. No. 146,016; Aug. 23; v. 289; p. 789.  
 Coffee. Western Grocer Company. No. 139,429; Feb. 1; v. 283; p. 173.  
 Coffee. Westfeldt Brothers. No. 144,972; July 19; v. 288; p. 624.  
 Coffee. D. C. Winebrener & Son. No. 146,409; Sept. 6; v. 290; p. 204.  
 Coffee. D. C. Winebrener & Son, Inc. No. 149,551; Dec. 13.  
 Coffee. C. F. Witt. Nos. 142,179-80; May 3; v. 286; p. 192.  
 Coffee. C. F. Witt. No. 143,515; May 31; v. 286; p. 1054.  
 Coffee. The Woolson Spice Co. No. 139,669; Feb. 8; v. 283; p. 355.  
 Coffee. Woolson Spice Co. No. 149,557; Dec. 13.  
 Coffee and coffee and chicory. A. H. Niolon & Son. No. 139,589; Feb. 8; v. 283; p. 352.  
 Coffee and peanut-butter. A. H. Niolon & Son. No. 140,183; Mar. 8; v. 284; p. 366.  
 Coffee and rice, Package. J. N. Jentz. No. 146,777; Sept. 20; v. 290; p. 634.  
 Coffee and tea. C. W. Antrim & Sons. No. 142,921; May 24; v. 286; p. 843.  
 Coffee and tea. Wabash Baking Powder Company. No. 148,299; Nov. 8.  
 Coffee, canned foods, butter. American Factors Limited. No. 144,158; June 28; v. 287; p. 773.  
 Coffee, chocolate in bars, &c. J. Aron & Company. No. 139,239; Feb. 1; v. 283; p. 167.  
 Coffee, coffee-chicory, and cereal. A. H. Niolon & Son. No. 140,500; Mar. 15; v. 284; p. 584.  
 Coffee essence, Concentrated. A. D. Brown. No. 146,957; Sept. 27; v. 290; p. 803.  
 Coffee, Green. J. Aron & Company. No. 148,631; Nov. 22.  
 Coffee, Raw. Taffae & Bellion. Nos. 149,741-2; Dec. 20.  
 Coffee, Roasted. Levin Store Co. No. 149,985; Dec. 27.  
 Coffee, Roasted. Northwestern Distributing Co. Nos. 143,700-1; June 7; v. 287; p. 186.  
 Coffee, Roasted. J. P. O'Connor. No. 144,619; July 12; v. 288; p. 425.  
 Coffee, Roasted. Young & Griffin Coffee Co. Inc. No. 149,750; Dec. 20.  
 Coffee, spices, chicory, and coffee, &c. A. H. Niolon & Son. No. 139,588; Feb. 8; v. 283; p. 352.  
 Coffee, spices, mustard, fruit flavoring extract—namely, lemon. C. A. Murdock Mfg. Co. No. 149,706; Dec. 20.  
 Coffee substitute. Deliso Corporation. No. 146,925; Sept. 20; v. 290; p. 641.  
 Coffee, table-syrups, molasses, and rice. New Orleans Coffee Company. No. 139,584; Feb. 8; v. 283; p. 352.  
 Coffee, tea, and food-flavoring extracts. J. F. Bruning. No. 138,894; Jan. 11; v. 282; p. 379.  
 Coffee, tea, spices, &c. Andrus-Scofield Co. No. 145,598; Aug. 16; v. 289; p. 591.  
 Coffee, tea, and spices. Wabash Baking Powder Company. No. 146,393; Sept. 6; v. 290; p. 204.  
 Coffee, tea, spices, flavoring extracts. G. Sponberg. No. 143,266; May 24; v. 286; p. 858.  
 Coffee substitute and coffee and this substitute blended. D. J. O'Shea. No. 148,499; Nov. 15.  
 Coffee, Substitute for. L. Donnet. No. 148,391; Nov. 15.  
 Coffee, vinegar, prepared mustard, Roasted. Smart & Final Co. No. 144,474; July 5; v. 288; p. 195.  
 Coils, Electric. Commercial Radio Co. of America. No. 145,340; Aug. 2; v. 289; p. 178.  
 Coin-paying machines. Brandt Manufacturing Company. No. 141,877; May 3; v. 286; p. 778.  
 Coke-plates, black sheets, and black sheets blued. Newton Steel Company. No. 147,506; Oct. 18.  
 Collars. Cluett, Peabody & Co. No. 138,755; Jan. 4; v. 282; p. 191.  
 Collars. C. H. O'Neill. No. 145,168; July 26; v. 288; p. 815.  
 Collars. Oppenheim, Oberndorf & Co. No. 149,192; Dec. 6.  
 Collars. S. Perlmutter. No. 147,369; Oct. 11.  
 Collars and cuffs. H. M. Kass. No. 148,679; Nov. 22.  
 Collars and neckbands. Jefferson Collar Co. No. 145,121; July 26; v. 288; p. 814.  
 Collars, cuffs, shirts, &c. Men's. C. C. Hemmick. No. 145,111; July 26; v. 288; p. 813.  
 Collars, dress, negligee, and under shirts and cuffs. Earl & Wilson. No. 143,847; June 14; v. 287; p. 399.  
 Collars, shirts, blouses, &c. Children's. W. M. Steppacher & Bro. No. 149,251; Dec. 6.  
 Collars, stocks, vests, &c. Women's. T. F. Crowley. No. 143,929; June 21; v. 287; p. 578.  
 Collars, underwear, shirts, &c. Associated Clothiers. No. 144,689; July 19; v. 288; p. 615.  
 Collets and certain thread-cutting tools. Union Twist Drill Company. No. 150,146; Dec. 27.  
 Collets, thread-cutting dies, &c. Union Twist Drill Company. No. 147,707; Oct. 25.  
 Cologne. Eau-de-. M. M. R. Vve. Grenoville. No. 148,848; Nov. 29.  
 Color, Butter-. Chr. Hansen's Laboratory. No. 146,762; Sept. 20; v. 290; p. 634.  
 Color ingredients for paints, &c. Missouri Cobalt Company. No. 138,674; Jan. 4; v. 282; p. 188.  
 Colors and paints. Inter-State Oil Company. No. 142,280; May 10; v. 286; p. 404.  
 Colors, Coal-tar. Society of Chemical Industry in Basle. No. 150,116; Dec. 27.  
 Colors, Dry. Mangano Manufacturing Company. No. 147,125; Oct. 4.  
 Colors, Food-. Chr. Hansen's Laboratory. No. 146,763; Sept. 20; v. 290; p. 634.  
 Colors, Food-. W. H. Long & Co. No. 140,875; Mar. 29; v. 284; p. 945.  
 Colors, Food-. National Aniline & Chemical Company. Nos. 139,008-12; Jan. 18; v. 282; p. 555.  
 Colors for foods and ingredients, Paste. H. Kohnstamm & Co. No. 144,596; July 12; v. 288; p. 424.  
 Colors for use in manufacture of inks and inking material, Dry. Mangano Manufacturing Company. No. 141,163; Apr. 12; v. 285; p. 382.  
 Colored fire, Chemical composition for producing. Edwin A. Jackson & Bro. No. 145,968; Aug. 23; v. 289; p. 788.  
 Coloring for meats and meat products. G. F. Ries. No. 139,378; Feb. 1; v. 283; p. 171.  
 Coloring materials for foods. George V. Gross & Company. No. 149,088; Dec. 6.  
 Coloring-matter for perfumes and creams. M. Wisniewski. No. 140,023; Mar. 1; v. 284; p. 174.  
 Coloring-matter suitable for the coloring of hair. B. W. Moe. No. 144,444; July 5; v. 288; p. 194.  
 Coloring-powders for foods. International Company. No. 143,650; June 7; v. 287; p. 184.  
 Columbia Graphophone Company, New York, N. Y. Furniture-polish. Nos. 144,730-1; July 19; v. 288; p. 616.  
 Combination one-piece working-garment. Cohn, Goldwater Co. No. 142,270; May 10; v. 286; p. 404.  
 Combs. Allen McNeerney and Company. No. 144,093; June 21; v. 287; p. 585.  
 Combs. The Sant-Komb Corporation. No. 138,699; Jan. 4; v. 282; p. 189.  
 Combs. Western Bottle Manufacturing Company. No. 144,152; June 21; v. 287; p. 590.  
 Combs and button-hooks not made of precious metal. Samstag & Hilder Bros. No. 138,856; Jan. 11; v. 282; p. 377.  
 Combs, barrettes, and hairpins. Newark Tortoise Shell Novelty Co. No. 145,895; Aug. 16; v. 289; p. 602.  
 Combs, Electrically-heated. B. Gale. No. 149,773; Dec. 20.  
 Combs, hairpins, clasps, and hair ornaments. A. Bonaz. No. 147,753; Nov. 1.  
 Combs, pin-cushions, and shoe-horns. Tuskeloid Company. No. 143,494; May 31; v. 286; p. 1054.  
 Combs, pin-cushions, shoe-horns. Tuskeloid Company. No. 144,075; June 21; v. 287; p. 583.  
 Combs, Pocket, fine, barbers', and dressing. C. A. Barnes. No. 144,717; July 19; v. 288; p. 616.  
 Comminuting machinery. Allis-Chalmers Manufacturing Company. No. 149,629; Dec. 20.



*Alphabetical list of trade-marks—Continued.*

- Composition for preventing deposition of moisture on windshields, &c. Crystal-On Chemical Co. No. 139,473; Feb. 1; v. 283; p. 173.
- Composition for sealing gaskets, &c. Motor Gasket Seal Co. No. 146,542; Sept. 6; v. 280; p. 219.
- Composition of matter for preserving and waterproofing leather. J. A. Stern. No. 141,051; Mar. 29; v. 284; p. 954.
- Compound. Core-binding. Casein Manufacturing Company. No. 147,760; Nov. 1.
- Compound for colds, headache, la grippe, &c. Bromo Products Company. No. 140,087; Mar. 8; v. 284; p. 363.
- Compound for patching roofs. J. F. Kurfees Paint Company. No. 147,867; Nov. 1.
- Compound for polishing glass, metal, and like surfaces. S. W. Morgan. No. 149,174; Dec. 6.
- Compound for radiators and water-jackets, Liquid. P. Pencovic. No. 140,932; Mar. 29; v. 284; p. 947.
- Compound for rheumatism and muscular pain. H. M. Collins. No. 143,923; June 21; v. 287; p. 578.
- Compound for the stomach and liver, kidneys, and blood, Vegetable. C. W. McKeough. No. 148,151; Nov. 8.
- Compound for the treatment of the stomach, liver, bowels, &c., Vegetable. S. G. G. Henderson. No. 138,823; Jan. 11; v. 282; p. 376.
- Compound for treating diseases of the blood, liver, and lungs. C. C. Seawright. No. 143,464; May 31; v. 286; p. 1053.
- Compound for use in treating coughs, colds, &c. E. G. Dunwoody. No. 142,990; May 24; v. 286; p. 845.
- Compound of bromids. William S. Merrell Company. No. 143,089; May 24; v. 286; p. 848.
- Compound of phytolacca used in the treatment of sore throat, tonsillitis, &c. William S. Merrell Company. No. 143,084; May 24; v. 286; p. 848.
- Compound of refined nut-oils and evaporated skimmed milk. The Carolene Co. No. 138,589; Jan. 4; v. 282; p. 186.
- Compound solution for carbon in automobiles and in gasoline-engines. A. A. Harper. No. 145,960; Aug. 23; v. 289; p. 788.
- Compound used in the Janney reproduction process, Gelatin. E. S. Holland Co. No. 144,417; July 5; v. 288; p. 193.
- Compounds used to aid the process of soldering. Western Electric Company. No. 139,910; Feb. 22; v. 283; p. 766.
- Compressors and pumps and attachments therefor. Pennsylvania Pump & Compressor Co. No. 146,596; Sept. 13; v. 290; p. 422.
- Concentrated, maltless syrup. C. J. Griffin. No. 146,102; Aug. 30; v. 289; p. 1014.
- Concrete and cement-hardeners. General Chemical Company. No. 141,125; Apr. 12; v. 285; p. 381.
- Concrete and cement hardeners. General Chemical Company. No. 141,360; Apr. 19; v. 285; p. 566.
- Concrete building-blocks. W. E. Nelson. No. 142,638; May 17; v. 286; p. 630.
- Concrete floors, Hardening and waterproofing liquid for treating. La-Lo Chemical Company. No. 146,797; Sept. 20; v. 290; p. 635.
- Concrete floors, Hardening liquid for treating. Goheen Corporation. No. 144,400; July 5; v. 288; p. 193.
- Concrete hardener, Liquid. White Company. No. 143,221; May 24; v. 286; p. 852.
- Concrete, Metal bars for reinforcing. Pollack Steel Company. No. 142,710; May 17; v. 286; p. 632.
- Concrete-mixers. A. L. Frame. No. 149,924; Dec. 27.
- Concrete mixers and distributing machines, &c. Koehring Machine Company. No. 150,203; Dec. 27.
- Concrete mixers and distributing machines, loading-skips, paving-machines, traction-graders. Koehring Machine Company. No. 149,585; Dec. 13.
- Concrete-mixers, feed-grinders, &c. E. F. Elmberg Company. No. 145,089; July 26; v. 288; p. 813.
- Concrete poles. Massey Concrete Products Corporation. No. 144,857; July 19; v. 288; p. 620.
- Concrete products, Machinery for manufacturing. Post Manufacturing Company. No. 145,573; Aug. 9; v. 289; p. 408.
- Concrete-reinforcing devices. Paul J. Kalman Company. Nos. 139,457-8; Feb. 1; v. 283; p. 175.
- Concrete-testing molds. Standard Concrete Apparatus Co. No. 141,238; Apr. 12; v. 285; p. 384.
- Condiments. Northern Pickle Company. No. 142,072; May 3; v. 286; p. 189.
- Conditioner, Cattle, horse, sheep, and hog. Lambert Chemical Co. No. 140,159; Mar. 8; v. 284; p. 365.
- Conductor-pipes, elbows and shoes. Newport Rolling Mill Co. No. 139,585; Feb. 8; v. 283; p. 352.
- Conduit, Non-metallic. American Wiremold Company. No. 143,843; June 14; v. 287; p. 399.
- Confection. D. L. Clark Company. No. 141,888; May 8; v. 286; p. 183.
- Confection flavored with tea. C. F. Blanke Tea & Coffee Company. No. 140,557; Mar. 22; v. 284; p. 743.
- Confection, Popcorn. Connecticut Pop Corn Co. No. 138,598; Jan. 4; v. 282; p. 186.
- Confection, Popcorn. O-Pee-Chee Gum Co. No. 141,630; Apr. 26; v. 285; p. 782.
- Confection, Popcorn. R. S. Sherratt. No. 141,676; Apr. 26; v. 285; p. 783.
- Confections, Fruit. A. A. Suvi. No. 141,691; Apr. 26; v. 285; p. 783.
- Confectioners' products. Senneff-Herr Co. No. 141,223; Apr. 12; v. 285; p. 384.
- Confectioner's product. Senneff-Herr Co. No. 141,669; Apr. 26; v. 285; p. 783.
- Confectioner's product used in the centers of chocolate creams. Senneff-Herr Co. No. 139,389; Feb. 1; v. 283; p. 171.
- Confectionery. Boston Confectionery Company. No. 140,084; Mar. 8; v. 284; p. 363.
- Confectionery. H. R. Hoefler. No. 139,551; Feb. 8; v. 283; p. 351.
- Confectionery. Purity Confectionery Company. No. 142,097; May 3; v. 286; p. 189.
- Confectionery—namely, chocolate coatings. Borden Company. No. 144,352; July 5; v. 288; p. 191.
- Confectionery—namely, Lollipops. Revere Confectionery and Pop Corn Works. No. 143,147; May 24; v. 286; p. 850.
- Confectionery piece. William Prentiss Jr. Company. No. 139,913; Feb. 22; v. 283; p. 756.
- Connection-clips. R. S. Mueller. No. 141,182; Apr. 12; v. 285; p. 382.
- Connecting-rod aliners. J. Dee. No. 146,209; Sept. 6; v. 290; p. 198.
- Conserve, Fruit. P. A. Sherkjian. No. 142,761; May 17; v. 286; p. 633.
- Construction machinery and equipment. Equipment Corporation of America. No. 148,011; Nov. 8.
- Construction material. A. C. Fischer. No. 138,618; Jan. 4; v. 282; p. 186.
- Construction material. N. V. Internationale Minerales Compagnie. No. 148,497; Nov. 15.
- Construction material. The Rodd Company. No. 138,854; Jan. 11; v. 282; p. 377.
- Construction materials. E. Bancroft. No. 141,856; May 3; v. 286; p. 182.
- Construction materials. Beaver Company. No. 142,237; May 10; v. 286; p. 403.
- Construction materials. Bird & Son. No. 143,289; May 31; v. 286; p. 1047.
- Construction materials. Raymond Granite Company. No. 147,674; Oct. 25.
- Construction materials. Terrasit Industrie G. m. b. H. No. 141,694; Apr. 26; v. 285; p. 783.
- Construction materials. Texas Company. No. 140,227; Mar. 8; v. 284; p. 368.
- Construction materials, Certain. Chicago Fire Brick Co. No. 148,641; Nov. 22.
- Construction materials, Certain. A. E. H. Dussek. No. 149,908; Dec. 27.
- Construction materials, Certain. Hydrex Corporation. No. 147,056; Sept. 27; v. 290; p. 808.
- Construction materials, Certain. Raymond Granite Company. No. 147,244; Oct. 4.
- Construction materials, Certain. Riordon Company. No. 149,215; Dec. 6.
- Construction materials for floors, walls, and ceilings. Traitel Marble Co. No. 143,493; May 31; v. 286; p. 1053.
- Container. F. Person. No. 146,549; Sept. 6; v. 290; p. 220.
- Container for carrying liquid medicaments and discharging same as a spray. L. K. Mobley. No. 139,171; Jan. 25; v. 282; p. 735.
- Containers for disinfecting substances. C. F. Hood. No. 142,571; May 17; v. 286; p. 628.
- Containers for food products, Composition. Mono-Service Co. No. 145,001; July 19; v. 288; p. 627.
- Containers, Insulated vitreous. Mantle Lamp Company of America. No. 139,944; Feb. 22; v. 283; p. 759.
- Containers, Thermally-insulated. Challenge High Vacuum Company. No. 145,624; Aug. 16; v. 289; p. 592.
- Conveyer-machines. Portable Machinery Company. No. 142,893; May 17; v. 286; p. 641.
- Conveyers and conveying machinery and parts thereof. Certain. Alvey-Ferguson Company. No. 149,336; Dec. 13.
- Conveying and loading machinery. Barber-Greene Company. No. 139,483; Feb. 8; v. 283; p. 349.
- Conveying machinery, Clam-shell buckets, &c., for. Blaw-Knox Company. No. 140,027; Mar. 1; v. 284; p. 175.
- Cookies. B. F. Miller. No. 145,152; July 26; v. 288; p. 815.
- Cooking and heating stoves. Sears, Roebuck & Company. No. 144,051; June 21; v. 287; p. 582.
- Cooking and household utensils, Metal. Indiana Aluminum Ware Company. No. 142,581; May 17; v. 286; p. 628.
- Cooking and shortening compound. A. Cohen. No. 146,201; Sept. 6; v. 290; p. 198.
- Cooking compound. Lever Brothers Company. No. 141,161; Apr. 12; v. 285; p. 382.
- Cooking utensils and household goods, Aluminum. Blum's Incorporated. No. 139,492; Feb. 8; v. 283; p. 349.
- Cooking utensils, Cast, pressed, and spun aluminum. Western Aluminum Manufacturing Company. No. 148,309; Nov. 8.
- Cooking utensils, Certain aluminum. Pacific Aluminum Company. No. 148,910; Nov. 29.



## Alphabetical list of trade-marks—Continued.

- Cooking utensils, Aluminum. Leyse Aluminum Company. No. 149,430; Dec. 13.
- Coolers, filters, and filtering material. The Filtrine Manufacturing Company. No. 142,528; May 17; v. 286; p. 627.
- Cooling, soothing, antiseptic preparation for external use. A. S. Sweet. No. 148,277; Nov. 8.
- Copper cakes. Nichols Copper Co. No. 140,049; Mar. 1; v. 284; p. 177.
- Copying and duplicating apparatus. J. Pluckrose. No. 148,509; Nov. 15.
- Cord, reed, and stakes, Fiber. Grand Lake Company. Nos. 147,104-5; Oct. 4.
- Cords, Braided. Silver Lake Company. No. 144,536; July 5; v. 288; p. 200.
- Cordial extract used in nervousness, &c. William S. Merrell Company. No. 142,034; May 3; v. 286; p. 187.
- Cordials, Non-alcoholic. Gray-Juergens Co. No. 144,786; July 19; v. 288; p. 618.
- Core compound, Liquid. E. J. Woodison Co. No. 142,354; May 10; v. 286; p. 406.
- Cork composition used as a covering for rolls, cork inner-sole for shoes, &c. International Cork Company. No. 144,807; July 19; v. 288; p. 619.
- Corn and popcorn products, &c. National Sales Company. No. 146,543; Sept. 6; v. 290; p. 220.
- Corn, Cracked. Chas. A. Krause Milling Co. No. 149,691; Dec. 20.
- Corn flakes. Quaker Oats Company. No. 142,321; May 10; v. 286; p. 405.
- Corn, Popping. E. D. Bradshaw. No. 149,346; Dec. 13.
- Corn-popping machines. W-M-P Manufacturing Company. No. 138,926; Jan. 11; v. 282; p. 383.
- Corn remedy. J. J. Williams. No. 148,313; Nov. 8.
- Corn-silk and saw-palmetto compound. William S. Merrell Company. No. 142,037; May 3; v. 286; p. 187.
- Corn-starch. Corn Products Refining Co. No. 149,365; Dec. 13.
- Corn-starch. Penick & Ford. No. 142,222; May 3; v. 286; p. 192.
- Cornmeal. City Mills Company. No. 139,070; Jan. 18; v. 282; p. 558.
- Cornmeal. J. E. Newton. No. 141,188; Apr. 12; v. 285; p. 382.
- Cornmeal. Piedmont Mills. No. 139,605; Feb. 8; v. 283; p. 353.
- Cornmeal. W. P. Tanner-Gross & Company. No. 145,293; July 26; v. 288; p. 825.
- Cornmeal. Western Grain Company. No. 144,495; July 5; v. 288; p. 196.
- Cornmeal, Graham and wheat flour, dairy, horse, &c., feeds. H. A. Liedel & Son. No. 149,432; Dec. 13.
- Corrugated fiber packages, folding and paper boxes. J. M. Raffel Co. No. 149,606; Dec. 13.
- Corset bones and stays. American Hard Rubber Company. No. 145,595; Aug. 16; v. 289; p. 591.
- Corset-boning. Crown Corset Company. No. 147,975; Nov. 8.
- Corsets. Bay State Corset Company. No. 141,732; Apr. 26; v. 285; p. 786.
- Corsets. Herfeld-Phillipson Company. No. 143,642; June 7; v. 287; p. 184.
- Corsets. F. P. Hoy, Inc. No. 148,669; Nov. 22.
- Corsets. International Corset Company. No. 148,672; Nov. 22.
- Corsets. Ivy Corset Company. No. 141,762; Apr. 26; v. 285; p. 788.
- Corsets. James A. Hearn & Son. No. 143,637; June 7; v. 287; p. 184.
- Corsets. R. Kops. No. 138,656; Jan. 4; v. 282; p. 188.
- Corsets. Lorette Corset Co. No. 148,146; Nov. 8.
- Corsets. M & K Corset Co. No. 140,895; Mar. 29; v. 284; p. 946.
- Corsets. Mills Corset Company. No. 143,686; June 7; v. 287; p. 185.
- Corsets. I. Newman & Sons. No. 146,546; Sept. 6; v. 290; p. 220.
- Corsets. Nu Bone Corset Company. No. 140,504; Mar. 15; v. 284; p. 585.
- Corsets. Parisian Cloak Co. No. 142,740; May 17; v. 286; p. 633.
- Corsets. Sears, Roebuck and Co. No. 142,329; May 10; v. 286; p. 406.
- Corsets. Sears, Roebuck and Company. No. 143,165; May 24; v. 286; p. 851.
- Corsets. Stern Brothers. No. 141,688; Apr. 26; v. 285; p. 783.
- Corsets and brassières. American Lady Corset Co. No. 145,533; Aug. 9; v. 289; p. 407.
- Corsets and brassières. American Lady Corset Company. No. 145,596; Aug. 16; v. 289; p. 591.
- Corsets and brassières. American Lady Corset Co. No. 147,902; Nov. 8.
- Corsets and brassières. American Lady Corset Company. No. 148,345; Nov. 15.
- Corsets and brassières. Kabo Corset Company. No. 140,408; Mar. 15; v. 284; p. 582.
- Corsets and corset-waists. Kalamazoo Corset Company. No. 145,704; Aug. 16; v. 289; p. 594.
- Corsets and girdles, Women's. Anderson & Barry. No. 142,430; May 17; v. 286; p. 624.
- Corsets, brassières, and leg-garments. A. R. Alston. Nos. 149,300-1; Dec. 6.
- Corsets, brassières, and waists. Kops Bros. No. 140,619; Mar. 22; v. 284; p. 745.
- Corsets, brassières, bust-supporters, &c. Ivy Corset Company. No. 143,653; June 7; v. 287; p. 185.
- Corsets, brassières, corset-covers. Weingarten Bros. No. 141,817; Apr. 26; v. 285; p. 794.
- Corsets, brassières, corset-covers, and waists. Kops Brothers. No. 148,462; Nov. 15.
- Corsets, corset-covers, brassières, and waists. Charles R. De Bevoise Co. No. 144,739; July 19; v. 288; p. 617.
- Corsets, garters, girdles, bust-confiners, &c. Abelardo Queralt, S. en C. No. 149,809; Dec. 20.
- Cosmetics. Reichman & Faust. No. 139,192; Jan. 25; v. 282; p. 735.
- Cotton and cotton and silk mixture piece goods. Coho Hall Marx Co. No. 139,709; Feb. 15; v. 283; p. 541.
- Cotton and cotton and silk mixture piece goods. N. Fluegelman & Co. No. 146,089; Aug. 30; v. 289; p. 1014.
- Cotton and cotton and silk mixtures in the piece. Everett, Heaney & Company. No. 146,218; Sept. 6; v. 290; p. 199.
- Cotton and cotton-mixture piece goods. Hecht, Mendes & Mandel. No. 141,958; May 3; v. 286; p. 185.
- Cotton and silk fabrics in the piece and strip form. Columbia Ribbon & Carbon Mfg. Co. No. 145,338; Aug. 2; v. 289; p. 178.
- Cotton and silk piece goods, and combinations of same. Friedman & Krieger. No. 145,557; Aug. 9; v. 289; p. 407.
- Cotton and wool dress goods in the piece. W. W. Rycroft & Co. No. 149,494; Dec. 13.
- Cotton and woolen piece goods. R. H. Linton. No. 139,344; Feb. 1; v. 283; p. 170.
- Cotton and woolen piece goods. R. H. Linton. No. 139,460; Feb. 1; v. 283; p. 176.
- Cotton and woolen piece goods. R. H. Linton. No. 140,881; Mar. 29; v. 284; p. 946.
- Cotton and woolen piece goods. R. H. Linton. No. 141,042; Mar. 29; v. 284; p. 953.
- Cotton-batting. Sears, Roebuck and Co. No. 140,965; Mar. 29; v. 284; p. 948.
- Cotton-batting. Stearns & Foster Company. Nos. 147,062-4; Sept. 27; v. 290; p. 809.
- Cotton-batting. Stearns & Foster Company. Nos. 150,126-32; Dec. 27.
- Cotton batting, particularly glazed cotton wadding. Stearns & Foster Company. Nos. 149,616-9; Dec. 13.
- Cotton bats. Marshall Field & Company. No. 140,047; Mar. 1; v. 284; p. 177.
- Cotton-bats. Marshall Field & Company. Nos. 142,609-11; May 17; v. 286; p. 629.
- Cotton-bats. Marshall Field & Company. No. 143,397; May 31; v. 286; p. 1051.
- Cotton-bats. Marshall Field & Company. No. 144,002; June 21; v. 287; p. 589.
- Cotton blankets. Massachusetts Cotton Mills. No. 139,835; Feb. 22; v. 283; p. 753.
- Cotton dress and underwear piece goods, Plain white, dyed, or printed. Windsor Print Works. Nos. 139,434-5; Feb. 1; v. 283; p. 173.
- Cotton dress fabrics. Marshall Field & Company. No. 148,156; Nov. 8.
- Cotton dress materials in the piece, Washable. M. E. Smith & Co. No. 148,533; Nov. 15.
- Cotton, drills, twills in the piece. Fred S. Bennett, Inc. No. 146,067; Aug. 30; v. 289; p. 1013.
- Cotton duck. Mount Vernon-Woodberry Mills. Nos. 140,177-9; Mar. 8; v. 284; p. 366.
- Cotton duck, and canvas piece goods. J. Einstein, Inc. No. 147,091; Oct. 4.
- Cotton duck in the piece. Marshall Field & Company. No. 145,411; Aug. 2; v. 289; p. 180.
- Cotton-duck piece goods. Marshall Field & Company. No. 146,812; Sept. 20; v. 290; p. 635.
- Cotton fabric and wool and cotton combination fabric. Nathan, Strauss & Co. No. 140,657; Mar. 22; v. 284; p. 746.
- Cotton fabrics in the piece. Howlett & Hockmeyer Co. No. 139,456; Feb. 1; v. 283; p. 175.
- Cotton fabrics in the piece. Howlett & Hockmeyer Co. No. 149,951; Dec. 27.
- Cotton fabrics in the piece, Swiss. Gartner Importing Corporation. No. 142,543; May 17; v. 286; p. 627.
- Cotton-gins and accessories therefor and cotton-presses. Continental Gin Co. No. 147,287; Oct. 11.
- Cotton gins and presses, &c. Continental Gin Co. No. 146,204; Sept. 6; v. 290; p. 198.
- Cotton goods by the piece. Lonsdale Company. No. 143,254; May 24; v. 286; p. 857.
- Cotton goods in the piece. Erwin Cotton Mills Co. No. 143,241; May 24; v. 286; p. 856.
- Cotton goods in the piece. Erwin Cotton Mills Co. No. 143,330; May 31; v. 286; p. 1048.
- Cotton goods in the piece. T. H. Haywood. No. 141,574; Apr. 26; v. 285; p. 780.
- Cotton goods in the piece. Hettrick Manufacturing Company. No. 145,561; Aug. 9; v. 289; p. 408.
- Cotton goods in the piece. E. M. Holt Plaid Mills. No. 147,622; Oct. 25.



- Cotton goods in the piece. Hudson & Boas. No. 142,575; May 17; v. 286; p. 628.
- Cotton goods in the piece. Pearl Cotton Mills. No. 143,259; May 24; v. 286; p. 858.
- Cotton goods in the piece. Wm. Simpson, Sons & Co. No. 141,078; Apr. 26; v. 285; p. 783.
- Cotton goods in the piece. Smith, Hogg & Co. No. 141,809; Apr. 26; v. 285; p. 793.
- Cotton goods in the piece. Smith, Hogg & Co. Nos. 145,011-12; July 19; v. 288; pp. 628-9.
- Cotton goods in the piece. Smith, Hogg & Co. No. 149,506; Dec. 13.
- Cotton goods in the piece. Trion Company. No. 147,524; Oct. 18.
- Cotton, linen, silk, &c., piece goods. Jacob Miller Sons & Co. Nos. 140,648-9; Mar. 22; v. 284; p. 746.
- Cotton, Medicated absorbent. Whitehall Pharmacal Co. No. 140,467; Mar. 15; v. 284; p. 584.
- Cotton-pickers' sacks. J. W. Watkins & Co. No. 144,491; July 5; v. 288; p. 196.
- Cotton piece goods. American Bleached Goods Company. No. 147,900; Nov. 8.
- Cotton piece goods. American Trading Company. No. 139,238; Feb. 1; v. 283; p. 167.
- Cotton piece goods. American Trading Company. No. 143,532; June 7; v. 287; p. 181.
- Cotton piece goods. Amoskeag Manufacturing Company. Nos. 142,211-13; May 3; v. 286; p. 192.
- Cotton piece goods. Amoskeag Manufacturing Company. No. 142,856; May 17; v. 286; p. 637.
- Cotton piece goods. Amoskeag Manufacturing Company. Nos. 143,781-2; June 7; v. 287; p. 189.
- Cotton piece goods. Amoskeag Manufacturing Company. Nos. 145,029-30; July 26; v. 288; p. 811.
- Cotton piece goods. Amoskeag Manufacturing Company. No. 146,424; Sept. 6; v. 290; p. 206.
- Cotton piece goods. Amoskeag Manufacturing Company. No. 146,944; Sept. 27; v. 290; p. 803.
- Cotton piece goods. Amoskeag Manufacturing Company. No. 148,985; Dec. 6.
- Cotton piece goods. Armstrong, Sagar & Co. No. 141,849; May 3; v. 286; p. 182.
- Cotton piece goods. Armstrong, Sagar & Co. No. 147,910; Nov. 8.
- Cotton piece goods. Bliss Fabryan & Company. No. 140,558; Mar. 22; v. 284; p. 743.
- Cotton piece goods. J. E. Brenner & Co. No. 143,788; June 7; v. 287; p. 189.
- Cotton piece goods. R. G. Brotherton. No. 143,561; June 7; v. 287; p. 182.
- Cotton piece goods. Burton Bros. & Co. No. 147,077; Oct. 4.
- Cotton piece goods. Burton Bros. & Co. No. 149,007; Dec. 6.
- Cotton piece goods. Brune, Pottberg & Co. No. 149,354; Dec. 13.
- Cotton piece goods. Calef Bros. No. 140,576; Mar. 22; v. 284; p. 744.
- Cotton piece goods. Calico Printers' Association. No. 149,860; Dec. 27.
- Cotton piece goods. Chas. Kohlman & Co., Inc. No. 141,156; Apr. 12; v. 285; p. 381.
- Cotton piece goods. Chicopee Mfg. Corporation. Nos. 147,280-1; Oct. 11.
- Cotton piece goods. Denzer & Nathan, Inc. No. 139,928; Feb. 22; v. 283; p. 758.
- Cotton piece goods. Denzer & Nathan. No. 145,256; July 26; v. 288; p. 821.
- Cotton piece goods. Dryfoos-Tiedemann Co. No. 142,258; May 10; v. 286; p. 404.
- Cotton piece goods. Edson Moore & Company. No. 148,396; Nov. 15.
- Cotton piece goods. N. Erlanger, Blumgart & Co. No. 140,798; Mar. 29; v. 284; p. 943.
- Cotton piece goods. Erwin Cotton Mills Co. No. 142,201; May 3; v. 286; p. 192.
- Cotton piece goods. Eugene Gutman & Co. No. 140,134; Mar. 8; v. 284; p. 365.
- Cotton piece goods. A. Gastun & Company. No. 140,388; Mar. 15; v. 284; p. 581.
- Cotton piece goods. Gibson Mfg. Co. No. 146,032; Aug. 23; v. 289; p. 792.
- Cotton piece goods. M. H. Gilberg & Co. No. 148,047; Nov. 8.
- Cotton piece goods. Graniteville Manufacturing Company. No. 143,626; June 7; v. 287; p. 184.
- Cotton piece goods. Hinck & Muller. Nos. 139,320-1; Feb. 1; v. 283; p. 169.
- Cotton piece goods. Hinck & Muller. No. 140,608; Mar. 22; v. 284; p. 745.
- Cotton piece goods. Hinck & Muller. No. 141,140; Apr. 12; v. 285; p. 381.
- Cotton piece goods. Hinck & Muller. No. 141,382; Apr. 19; v. 285; p. 567.
- Cotton piece goods. Hinck & Muller. No. 142,566; May 17; v. 286; p. 628.
- Cotton piece goods. Hinck & Muller. No. 143,042; May 24; v. 286; p. 847.
- Cotton piece goods. Hinck & Muller. No. 149,945; Dec. 27.
- Cotton piece goods. Horrockses, Crewdson & Company. No. 139,995; Mar. 1; v. 284; p. 174.
- Cotton piece goods. Hunter Mfg. & Com. Co. No. 139,553; Feb. 8; v. 283; p. 351.
- Cotton piece goods. Hyman Bauman & Co. Nos. 143,550-1; June 7; v. 287; p. 181.
- Cotton piece goods. G. Igstaedter. No. 139,822; Feb. 22; v. 283; p. 753.
- Cotton piece goods. John P. King Mfg. Co. No. 143,657; June 7; v. 287; p. 185.
- Cotton piece goods. Kelsey Textile Corporation. No. 141,989; May 3; v. 286; p. 186.
- Cotton piece goods. Levinson Textile Co. No. 149,694; Dec. 20.
- Cotton piece goods. Lonsdale Company. No. 145,403; Aug. 2; v. 289; p. 180.
- Cotton piece goods. Lonsdale Company. No. 148,144; Nov. 8.
- Cotton piece goods. Marshall Field & Company. No. 146,221; Sept. 6; v. 290; p. 199.
- Cotton piece goods. Mills & Gibb Corp. No. 141,781; Apr. 26; v. 285; p. 790.
- Cotton piece goods. Nashua Manufg. Company. No. 139,356; Feb. 1; v. 283; p. 170.
- Cotton piece goods. O'Connell-Simmons Co. No. 144,018; June 21; v. 287; p. 581.
- Cotton piece goods. Pacific Mills. Nos. 142,383-4; May 10; v. 286; pp. 409-10.
- Cotton piece goods. Pacific Mills. Nos. 143,823-31; June 7; v. 287; pp. 193-4.
- Cotton piece goods. Pacific Mills. Nos. 144,889-90; July 19; v. 288; p. 621.
- Cotton piece goods. Pacific Mills. Nos. 144,910-12; July 19; v. 288; p. 622.
- Cotton piece goods. Pacific Mills. No. 145,169; July 26; v. 288; p. 815.
- Cotton piece goods. Pacific Mills. No. 145,770; Aug. 16; p. 289; p. 596.
- Cotton piece goods. Pacific Mills. Nos. 146,126-7; Aug. 30; v. 289; p. 1015.
- Cotton piece goods. Pacific Mills. No. 149,467; Dec. 13.
- Cotton piece goods. Pepperell Manufacturing Company. No. 141,199; Apr. 12; v. 285; p. 383.
- Cotton piece goods. Phoenix Manufacturing Company. No. 140,668; Mar. 22; v. 284; p. 747.
- Cotton piece goods. Rafael Del Castillo & Co. Nos. 139,286-7; Feb. 1; v. 283; p. 168.
- Cotton piece goods. Rafael Del Castillo & Co. No. 140,106; Mar. 8; v. 284; p. 364.
- Cotton piece goods. Rafael Del Castillo & Co. No. 143,311; May 31; v. 286; p. 1048.
- Cotton piece goods. Rafael Del Castillo & Co. No. 148,386; Nov. 15.
- Cotton piece goods. A. L. Reid & Co. No. 145,518; Aug. 2; v. 289; p. 186.
- Cotton piece goods. Rice-Stix Dry Goods Company. No. 139,377; Feb. 1; v. 283; p. 171.
- Cotton piece goods. Rice-Stix Dry Goods Company. No. 146,659; Sept. 13; v. 290; p. 429.
- Cotton piece goods. A. M. Robinson Company. No. 146,601; Sept. 13; v. 290; p. 422.
- Cotton piece goods. A. M. Robinson Company. No. 148,731; Nov. 22.
- Cotton piece goods. Samuel Hymes & Sons. No. 138,644; Jan. 4; v. 282; p. 187.
- Cotton piece goods. Sears, Roebuck and Co. No. 149,234; Dec. 6.
- Cotton piece goods. G. Sidenberg & Co. No. 149,503; Dec. 13.
- Cotton piece goods. M. Simon. No. 139,391; Feb. 1; v. 283; p. 171.
- Cotton piece goods. Standard Textile Products Company. No. 143,483; May 31; v. 286; p. 1053.
- Cotton piece goods. H. A. Tappen. No. 146,891; Sept. 20; v. 290; p. 638.
- Cotton piece goods. Taylor, Clapp & Beall. No. 139,901; Feb. 22; v. 283; p. 755.
- Cotton piece goods. Taylor, Clapp & Beall. Nos. 140,063-4; Mar. 1; v. 284; p. 179.
- Cotton piece goods. Taylor, Clapp & Beall. No. 148,341; Nov. 8.
- Cotton piece goods. Textile Service Co. No. 144,069; June 21; v. 287; p. 583.
- Cotton piece goods. Turner & Walls. No. 143,875; June 14; v. 287; p. 402.
- Cotton piece goods. United States Finishing Company. No. 140,459; Mar. 15; v. 284; p. 583.
- Cotton piece goods. United Turkey Red Company. No. 148,554; Nov. 15.
- Cotton piece goods. United Turkey Red Company Limited. No. 149,535; Dec. 13.
- Cotton piece goods. Ware Shoals Mfg. Co. No. 146,937; Sept. 20; v. 290; p. 642.
- Cotton piece goods. Warner-Godfrey Co. No. 140,692; Mar. 22; v. 284; p. 747.
- Cotton piece goods. Warner-Godfrey Co. No. 141,461; Apr. 19; v. 285; p. 569.
- Cotton piece goods. Waters-Weismann Co. No. 140,693; Mar. 22; v. 284; p. 747.
- Cotton piece goods. James F. White & Co. Nos. 150,169-71; Dec. 27.
- Cotton piece goods. Williams-Richardson Company. No. 149,293; Dec. 6.
- Cotton piece goods. Wyman, Partridge & Co. No. 147,721; Oct. 25.



*Alphabetical list of trade-marks—Continued.*

- Cotton piece goods. Wyman, Partridge & Co. No. 148,561; Nov. 15.
- Cotton piece goods. Zürcher, Niederer & Co. No. 147,192; Oct. 4.
- Cotton piece goods—namely, cotton suitings. Nashua Manufg. Company. No. 139,842; Feb. 22; v. 283; p. 754.
- Cotton piece goods—namely, romper-cloth. Sears, Roebuck and Co. No. 143,742; June 7; v. 287; p. 187.
- Cotton piece goods, Plain white or printed. Windsor Print Works. No. 146,021; Aug. 23; v. 289; p. 790.
- Cotton piece goods, Printed. Neuss Hesslein & Co. No. 140,606; Mar. 22; v. 284; p. 745.
- Cotton piece goods, Printed. J. L. Stifel & Sons. No. 138,923; Jan. 11; v. 282; p. 382.
- Cotton piece goods—viz., gingham. Delgado Mills. No. 149,031; Dec. 6.
- Cotton piece goods with rubberized coating. O'Bannon Corporation. No. 143,822; June 7; v. 287; p. 193.
- Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 146,309; Sept. 6; v. 290; p. 201.
- Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 147,141; Oct. 4.
- Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 147,656; Oct. 25.
- Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 148,179; Nov. 8.
- Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 148,693; Nov. 22.
- Cotton piece goods, Woven. Neuss, Hesslein & Co., Inc. No. 148,694; Nov. 22.
- Cotton pile cloth in the piece. John S. Boyd Company. No. 144,705; July 19; v. 288; p. 619.
- Cotton, sateens, drills, voiles, &c. piece goods. Dover Textile Company. No. 140,587; Mar. 22; v. 284; p. 744.
- Cotton-seed. San Marcos Cotton Breeding Farms. No. 143,737; June 7; v. 287; p. 187.
- Cotton-seed meal. Ashcraft-Wilkinson Company. No. 147,541; Oct. 25.
- Cotton-seed meal. C. L. Montgomery. No. 149,172; Dec. 6.
- Cotton-seed meal for use as an animal food. Ashcraft-Wilkinson Company. No. 143,539; June 7; v. 287; p. 181.
- Cotton, sewing-thread, and yarn. Spool. The American Thread Company. Nos. 148,821-2; Dec. 27.
- Cotton sheeting in the piece. Taylor, Clapp & Beall. No. 148,544; Nov. 15.
- Cotton, silk, linen, and mixtures of cotton, silk, and linen. J. Miller Sons & Co. No. 150,008; Dec. 27.
- Cotton, silk, linen, &c. piece goods. Jacob Miller Sons & Co. No. 140,632; Mar. 22; v. 284; p. 745.
- Cotton, silk, linen, &c. goods in the piece. Jacob Miller Sons & Co. No. 140,638; Mar. 22; v. 284; p. 746.
- Cotton, silk, linen, &c. goods in the piece. Jacob Miller Sons & Co. No. 140,640; Mar. 22; v. 284; p. 746.
- Cotton, silk, linen, &c. goods in the piece. Jacob Miller Sons & Co. Nos. 140,643-4; Mar. 22; v. 284; p. 746.
- Cotton, silk, linen, &c. goods in the piece. Jacob Miller Sons & Co. No. 140,646; Mar. 22; v. 284; p. 746.
- Cotton, silk, linen, &c. piece goods. Jacob Miller Sons & Co. No. 143,401; May 31; v. 286; p. 1051.
- Cotton suitings. Convertex Corporation. No. 139,779; Feb. 22; v. 283; p. 752.
- Cotton textile fabrics. H. Broder. No. 139,255; Feb. 1; v. 283; p. 167.
- Cotton thread. C. Spicehandler. No. 143,479; May 31; v. 286; p. 1053.
- Cotton, thread, and cotton yarn. Spool and sewing. American Thread Company. Nos. 146,628-30; Sept. 13; v. 290; p. 425.
- Cotton voiles in piece goods. N. Erlanger, Blumgart & Co. No. 149,377; Dec. 13.
- Cotton warp and wool dress piece goods. W. W. Rycroft & Co. No. 144,047; June 21; v. 287; p. 582.
- Cotton-waste. Hill & Cutler Co. No. 143,366; May 31; v. 286; p. 1050.
- Cotton, wool, and linen goods in the piece. McDonald Bros. Co. No. 144,837; July 19; v. 288; p. 620.
- Cotton, wool, and mixture cloths. W. E. Tillotson Manufacturing Company. No. 138,880; Jan. 11; v. 282; p. 378.
- Cotton, wool, &c. piece goods. South & Central American Commercial Co. No. 145,226; July 26; v. 288; p. 817.
- Cotton, wool, silk, or mixture piece goods. International Clearing House. No. 141,978; May 3; v. 286; p. 186.
- Cotton, woolen, linen and combination piece goods. Everett, Heaney & Company. No. 149,370; Dec. 13.
- Cotton, woolen, silk, and mixed piece goods. Manville Company. No. 140,479; Mar. 15; v. 284; p. 584.
- Cotton, worsted, woolen, and linen piece goods. Corning International Corporation. No. 149,022; Dec. 6.
- Cough-candies. Stearns-Hollinshead Co. No. 139,896; Feb. 22; v. 283; p. 755.
- Cough-candy. Wigel Candy Co. No. 140,244; Mar. 8; v. 284; p. 368.
- Cough-drops. J. W. Bliss. No. 139,491; Feb. 8; v. 283; p. 349.
- Cough-drops. J. R. Council. No. 149,025; Dec. 6.
- Cough-drops. Huggins Candy Co. No. 139,821; Feb. 22; v. 283; p. 753.
- Cough-drops. I. M. Krebs. No. 149,975; Dec. 27.
- Cough-drops. R. Suter. No. 145,661; Aug. 16; v. 289; p. 593.
- Cough-drops. R. Suter. No. 147,172; Oct. 4.
- Cough-syrup. C. J. Morin. No. 147,647; Oct. 25.
- Cough-syrup. Smith and Harrison. No. 147,036; Sept. 27; v. 290; p. 806.
- Cough-syrup, Thymo-nine. Mackie Fine Oil Specialty Co. No. 139,161; Jan. 25; v. 282; p. 734.
- Cough-syrup, witch-hazel, camphorated oil, pure glycerin. Blackstone Manufacturing Co. No. 146,178; Sept. 6; v. 290; p. 197.
- Counters, shelving, show-cases. "U-Save-It" Stores Association. No. 139,420; Feb. 1; v. 283; p. 172.
- Coupler attachments. Trailer. A. J. Anderson. No. 138,561; Jan. 4; v. 282; p. 185.
- Crackers. Green and Green Company. No. 146,928; Sept. 20; v. 290; p. 641.
- Crackers. Hampton Cracker Co. No. 143,632; June 7; v. 287; p. 184.
- Crackers and biscuits. Soda. Famous Biscuit Company. No. 143,328; Nov. 8.
- Crackers, biscuits, candy, &c. Bishop & Company. No. 145,323; Aug. 2; v. 289; p. 177.
- Crackers, cakes, and biscuits. Johnson Educator Food Co. No. 140,151; Mar. 8; v. 284; p. 365.
- Crackers, cakes, candies. J. H. Mackall Co. No. 142,015; May 3; v. 286; p. 187.
- Cranberries, corn, carrots, &c., Dried. J. F. Kelly. No. 143,376; May 31; v. 286; p. 1050.
- Cranes. Manning, Maxwell & Moore, Inc. No. 143,998; June 21; v. 287; p. 580.
- Crank-pin returning or truing tools. H. A. Lee. No. 149,139; Dec. 6.
- Crape chifton, waist-lining, &c., in the piece. E. L. Brady Co. No. 140,570; Mar. 22; v. 284; p. 744.
- Crape in the piece. Jacob Miller Sons & Co. No. 140,641; Mar. 22; v. 284; p. 746.
- Crash, Linen. Wyman, Partridge & Co. No. 146,410; Sept. 6; v. 290; p. 204.
- Crates, wood boxes, and cartons. Central Furniture Packing Company. No. 149,872; Dec. 27.
- Cravats and neckties. H. Arnold. No. 140,547; Mar. 22; v. 284; p. 743.
- Cravats and neckties. Meyerson-Levine & Company. No. 145,745; Aug. 16; v. 289; p. 595.
- Cravats, collars, dress-shirts, &c. S. S. Loeb & Co. No. 140,423; Mar. 15; v. 284; p. 582.
- Crayon, Marking. G. F. Soper. No. 146,511; Sept. 6; v. 290; p. 216.
- Crayons. National Crayon Company. No. 144,871; July 19; v. 288; p. 621.
- Crayons. Standard Oil Company of New York. No. 141,686; Apr. 26; v. 285; p. 783.
- Cream and appetizing- tonic. Cold. Penslar Company. No. 143,133; May 24; v. 286; p. 850.
- Cream and dentifrice, Gum. Cruse Company. No. 148,754; Nov. 22.
- Cream and powder, rouge, &c. Face. Mariet Company. No. 146,117; Aug. 30; v. 289; p. 1014.
- Cream and soap, Shaving. Simmons Hardware Company. No. 141,439; Apr. 19; v. 285; p. 569.
- Cream, Beauty-. K. M. Quinlan. No. 145,996; Aug. 23; v. 289; p. 789.
- Cream, Cold, massage, and toilet. F. W. Cheek. No. 140,578; Mar. 22; v. 284; p. 744.
- Cream, Complexion-. Buffington's Incorporated. No. 141,881; May 3; v. 286; p. 183.
- Cream, Cosmetic. Crème Coco Company. No. 141,344; Apr. 19; v. 285; p. 566.
- Cream, Dental. J. N. Wolodarsky. No. 147,191; Oct. 4.
- Cream, Evaporated. Rico Milk Products Company. No. 143,441; May 31; v. 286; p. 1052.
- Cream, Face-. A. W. Earley. No. 141,287; Apr. 12; v. 285; p. 387.
- Cream, Face-. R. Myers. No. 149,178; Dec. 6.
- Cream, Face-. Newgold Pharmacal Co. No. 143,118; May 24; v. 286; p. 849.
- Cream, face and talcum powders, Face-. Howard Bros. Chemical Co. No. 141,970; May 3; v. 286; p. 185.
- Cream for freckles. E. E. Kirkland, Jr. No. 141,585; Apr. 26; v. 285; p. 780.
- Cream for sunburn, tan, burns, &c. Emo Co. No. 147,210; Oct. 4.
- Cream for the complexion. A. E. Reynolds. No. 149,608; Dec. 13.
- Cream for the hair, Liquid. Edlis Barbers' Supply Co. No. 146,643; Sept. 13; v. 290; p. 427.
- Cream for the scalp. Estelle-Idler. No. 143,518; May 31; v. 286; p. 1055.
- Cream in the nature of soap, powder, stick, &c., Shaving-. J. B. Williams Company. No. 144,976; July 19; v. 288; p. 624.
- Cream or ointment, Face. Dr. C. H. Berry Chemical Co. No. 145,929; Aug. 23; v. 289; p. 787.
- Cream powder, perfumes, &c. Beaute-Viva Co. No. 141,490; Apr. 26; v. 285; p. 777.
- Cream-separators. Charles William Stores, Inc. No. 148,798; Nov. 29.
- Cream, Shaving-. N. Catalfamo. No. 142,490; May 17; v. 286; p. 625.
- Cream, Shaving-. J. F. Grady. No. 145,679; Aug. 16; v. 289; p. 593.



*Alphabetical list of trade-marks—Continued.*

- Cream, Shaving. M. Lichtentag. No. 147,228; Oct. 4.  
 Cream, Shaving. Standard Sanitary Specialties Company. No. 144,945; July 19; v. 288; p. 623.  
 Cream substitute. I. Pine & Co. No. 144,318; June 28; v. 287; p. 780.  
 Cream-tartar, baking-soda, sulfur, Epsom salts. Twitchell-Champlin Company. No. 146,896; Sept. 20; v. 290; p. 638.  
 Cream-tartar, baking-soda, sulfur, Epsom salts. Twitchell-Champlin Company. No. 147,041; Sept. 27; v. 290; p. 806.  
 Cream to be applied to the skin for removing freckles and spots. F. T. Martinez. No. 145,981; Aug. 23; v. 289; p. 788.  
 Cream, Toilet. J. F. Hejda. No. 149,106; Dec. 6.  
 Cream, Toilet. A. C. Onnen. No. 141,421; Apr. 19; v. 285; p. 568.  
 Cream, Toilet. F. H. Young. No. 149,628; Dec. 13.  
 Cream, Vanishing. Harriet Hubbard Ayer. No. 149,829; Dec. 27.  
 Cream, Vanishing. Pond's Extract Company. No. 141,047; Mar. 29; v. 284; p. 953.  
 Creams and face-powder, Mud massage, cold, and vanishing. Weichsel Laboratories. No. 149,284; Dec. 6.  
 Creams and hair-dressings, Face, cold, and vanishing. Miller-Lambert Chemical Co. No. 144,442; July 5; v. 288; p. 194.  
 Creams, hair-tonics, and beautifiers, Complexion. N. M. Ware. No. 147,185; Oct. 4.  
 Creams, powders, and lotions, perfumes, Toilet. F. W. Wiseman. No. 148,750; Nov. 22.  
 Creams, rouge, and foot-relief, Cold and vanishing. I. R. Cook. No. 146,972; Sept. 27; v. 290; p. 894.  
 Creams, Talcum powders, perfumes, &c., Face. The Boyd Manufacturing Company. No. 138,948; Jan. 18; v. 282; p. 553.  
 Creams, toilet waters, &c., Cold and vanishing. E. D. Schneider. No. 146,864; Sept. 20; v. 290; p. 637.  
 Creepers, rompers, &c. Arcuni & Eichwald. No. 141,076; Apr. 12; v. 285; p. 879.  
 Creepers, rompers, and boys' suits. Rust & Thompson. No. 141,665; Apr. 26; v. 285; p. 782.  
 Creole pralines. Odenwald & Son. No. 139,594; Feb. 8; v. 283; p. 352.  
 Creosote carbonate, sulfonmethane, &c. Pharma-Chemical Corporation. No. 140,933; Mar. 29; v. 284; p. 947.  
 Creosote, &c., Liquid containing. Page & Hill Co. No. 138,848; Jan. 11; v. 282; p. 377.  
 Cretonnes and silkolines. F. A. Patrick & Co. No. 139,367; Feb. 1; v. 283; p. 171.  
 Crepe and silk in the piece. Louis Roessel & Co. No. 149,218; Dec. 6.  
 Crepe in the piece. J. Miller Sons & Co. No. 143,093; May 24; v. 286; p. 848.  
 Cretonnes and decorative fabrics. Witcombe, McGeachin & Co. No. 143,270; May 24; v. 286; p. 859.  
 Croup-salve, laxative pills, cough medicine, &c. L. A. Buresch. No. 144,554; July 12; v. 288; p. 423.  
 Crucibles and linings for furnaces, Coatings for. Chestnut Ridge Corporation. No. 142,470; May 17; v. 286; p. 625.  
 Crumb trays and scrapers and sink-scrapers. Fuller Brush Company. No. 144,216; June 28; v. 287; p. 774.  
 Crushing, cutting, grinding, mixing, &c. machinery. Paul O. Abbé Inc. Nos. 140,724-5; Mar. 29; v. 284; p. 941.  
 Crushing, cutting, grinding, &c. machinery. Paul O. Abbé Inc. No. 141,305; Apr. 19; v. 285; p. 565.  
 Crystalline malt extract. Wander Company. No. 148,301; Nov. 8.  
 Cuffs. Negligée and outing shirt. Nu-Kuff Co. No. 148,496; Nov. 15.  
 Culinary preparation, Concentrated. Marmite Food Extract Co. No. 146,810; Sept. 20; v. 290; p. 635.  
 Cultivators. Toro Manufacturing Company. No. 143,199; May 24; v. 286; p. 852.  
 Cultivators, Hand. American Fork and Hoe Company. No. 146,160; Sept. 6; v. 290; p. 197.  
 Culverts, Metal. Highway Iron Products Co. No. 145,690; Aug. 16; v. 289; p. 594.  
 Culverts, well-casings, flood-gates, &c. Wheeling Corrugating Company. No. 148,310; Nov. 8.  
 Cupolas, steel-converters, core-ovens, &c. Foundry. Whitling Foundry Equipment Co. No. 140,468; Mar. 15; v. 284; p. 584.  
 Cushions, Arch and heel. L. G. & S. S. Co. No. 145,724; Aug. 16; v. 289; p. 595.  
 Cut-outs and pedal for cut-outs and the like. N. A. Petty Company. No. 148,339; Nov. 8.  
 Cutlery and edge-tools. Southern & Richardson. No. 142,144; May 3; v. 286; p. 191.  
 Cutlery and table flat-ware. Cattaraugus Cutlery Co. No. 139,499; Feb. 8; v. 283; p. 349.  
 Cutlery and table flat-ware, and nutcrackers. Mappin & Webb. Nos. 149,446-7; Dec. 13.  
 Cutlery and table flat-ware and nutcrackers, Certain. Mappin & Webb. No. 149,999; Dec. 27.  
 Cutlery and tools. Pitard's, Inc. No. 141,202; Apr. 12; v. 285; p. 383.  
 Cutlery and tools, Certain. J. W. Ibberson. No. 147,779; Nov. 1.  
 Cutlery, machines, and tools, Certain. Shapleigh Hardware Company. No. 146,607; Sept. 13; v. 290; p. 422.  
 Cutlery, machines, and tools, Certain. Banister & Polard Co. No. 147,197; Oct. 4.  
 Cutlery, razors, shears, &c., Pocket. Union Cutlery Co. No. 142,804; May 17; v. 286; p. 635.  
 Cutlery, Steel. S. E. Bernstein. No. 143,909; June 21; v. 287; p. 578.  
 Cutting, carving, &c., implements, Hand. Henkel-Clauss Co. No. 141,758; Apr. 26; v. 285; p. 788.  
 Cycle-saddles, (Leather.) J. B. Brooks & Company. No. 141,500; Apr. 26; v. 285; p. 778.  
 Cycles and motorcycles. Elswick-Hopper Cycle & Motor Company. No. 141,933; May 3; v. 286; p. 184.  
 Cycles and motorcycles, Driving-chains for. Charles H. Pugh Limited. No. 147,513; Oct. 18.  
 Cylinder boring and facing machines. Barrett Machine Tool Company. No. 145,249; July 26; v. 288; p. 820.  
 Cylinder-grinding compound. Lap-In Compound Company. No. 148,129; Nov. 8.  
 Cylinders of internal-combustion engines, Chemical for removing deposits from. Motor-Kick Company. No. 144,611; July 12; v. 288; p. 425.  
 Cylinders or bottles, Gas. William Wharton Jr. & Co. No. 144,298; June 28; v. 287; p. 777.  
 Dairy machinery. H. H. Miller Industries Company. Nos. 144,134-5; June 21; v. 287; pp. 588-9.  
 Dairy products. Great Falls Dairy Products Company. No. 145,956; Aug. 23; v. 289; p. 788.  
 Dairy products. Red Wing Corporation Company. No. 149,488; Dec. 13.  
 Damask, pattern cloths, and napkins, Bleached, &c. B. F. Bailey & Co. No. 139,757; Feb. 22; v. 283; p. 751.  
 Dandruff preparation. A. M. Belk. No. 142,932; May 24; v. 286; p. 843.  
 Dates. Van Dyk and Reeves. No. 146,389; Sept. 6; v. 290; p. 204.  
 Dates, Fresh. Van Dyk and Reeves. No. 150,151; Dec. 27.  
 Davenport. Davis Mfg. Co. No. 142,978; May 24; v. 286; p. 845.  
 Davenport, sofas, &c., Upholstered. S. Karpen & Bros. No. 149,967; Dec. 27.  
 Decolorizing means, and more especially pulverized decolorizing-carbons. Algemeene Norit Maatschappij. No. 140,896; Mar. 29; v. 284; p. 946.  
 Defectors, Wind. T. Thompson. No. 140,452; Mar. 15; v. 284; p. 583.  
 Dehydrated and concentrated citrus fruits. C. H. Johnson. No. 148,099; Nov. 8.  
 Dehydrated Welsh rabbit. Cheshire Kitchens, Inc. No. 144,823; July 19; v. 288; p. 619.  
 Denims in the piece. Durham Cotton Mfg. Co. No. 146,456; Sept. 6; v. 290; p. 210.  
 Denims in the piece. Erwin Cotton Mills Co. No. 148,829; Nov. 29.  
 Dental apparatus, contrivances, and articles. Dental Manufacturing Co. No. 142,500; May 17; v. 286; p. 626.  
 Dental cleaning and polishing preparation. B. McFadden. No. 144,601; July 12; v. 288; p. 424.  
 Dental cream. M. C. Drake. No. 147,087; Oct. 4.  
 Dental filling material. Forsyth Dental Infirmary for Children. No. 142,534; May 17; v. 286; p. 627.  
 Dental instruments. Cleveland Dental Manufacturing Company. No. 148,380; Nov. 15.  
 Dental investments, Composition for making refractory. L. J. Weinstein. Nos. 142,829-30; May 17; v. 286; p. 636.  
 Dental, medical, and surgical appliances. E. Schmid Company. No. 149,801; Dec. 20.  
 Dental, medical, and surgical supplies. Du Pont Young Corporation. No. 139,522; Feb. 8; v. 283; p. 350.  
 Dental models and flask investments for molding vulcanite, Composition for making. L. J. Weinstein. No. 142,825; May 17; v. 286; p. 636.  
 Dental models and investments, Composition for making. L. J. Weinstein. Nos. 142,826-7; May 17; v. 286; p. 636.  
 Dental models and investments, Composition for making hard refractory. L. J. Weinstein. No. 142,828; May 17; v. 286; p. 636.  
 Dental models and investments, Composition for making refractory. L. J. Weinstein. No. 142,824; May 17; v. 286; p. 635.  
 Dental pastes, mouth-washes, pyorrhea remedies. Associated Dental Supply Co. No. 139,241; Feb. 1; v. 283; p. 167.  
 Dental plaster. J. D. Caughey. No. 149,566; Dec. 13.  
 Dental-plate polish. W. A. Milliken. No. 144,862; July 19; v. 288; p. 620.  
 Dental-plate suction devices. J. Lehner. No. 149,429; Dec. 13.  
 Dental powders, massage-creams, &c. Gosselin Trading Corporation. No. 141,137; Apr. 12; v. 285; p. 381.  
 Dental rubber and dam, bulbs for dental use, &c. Atlantic Rubber Mfg. Corporation. No. 148,783; Nov. 29.  
 Dental specialties. De Long & Provost. No. 142,499; May 17; v. 286; p. 626.  
 Dental specialties. Detroit Dental Manufacturing Company. No. 143,846; June 14; v. 287; p. 399.  
 Dental suction-retainers. J. Petry. No. 145,900; Aug. 16; v. 289; p. 603.  
 Dental supplies. The Ransom & Randolph Company. No. 138,851; Jan. 11; v. 282; p. 377.



## Alphabetical list of trade-marks—Continued.

- Dental supplies. Reitz-Farrar Company. Nos. 144,263-4; June 28; v. 287; p. 776.
- Dental supplies and appliances. L. D. Caulk Company. No. 149,307; Dec. 6.
- Dentifrice. L. Brave. No. 149,804; Dec. 6.
- Dentifrice. J. N. Cole. No. 145,939; Aug. 23; v. 289; p. 787.
- Dentifrice. Florence Manufacturing Company. No. 143,337; May 31; v. 286; p. 1049.
- Dentifrice. W. T. Green. No. 141,949; May 3; v. 286; p. 185.
- Dentifrice. Hayfay Laboratories. No. 148,663; Nov. 22.
- Dentifrice. Saveall Dentifrice Company. No. 148,531; Nov. 15.
- Dentifrice. Plate. H. L. Garrett. No. 143,344; May 31; v. 286; p. 1049.
- Dentifrices. The Omega Chemical Company. No. 139,019; Jan. 18; v. 282; p. 555.
- Dentifrices. J. M. Thal. No. 138,878; Jan. 11; v. 282; p. 378.
- Deodorant. E. C. Luedtke. No. 144,195; June 28; v. 287; p. 774.
- Deodorant and astringent. O. F. Hempel. No. 143,363; May 31; v. 286; p. 1049.
- Deodorant and germicide. U. S. Sanitary Specialties Corporation. No. 138,884; Jan. 11; v. 282; p. 378.
- Deodorant and germicide. U. S. Sanitary Specialties Corporation. No. 139,044; Jan. 18; v. 282; p. 556.
- Deodorant compound. T. A. Carney. No. 148,795; Nov. 29.
- Deodorant or perspiration-powder. C. Wiley. No. 139,231; Jan. 25; v. 282; p. 787.
- Deodorants. F. La Piana. No. 149,319; Dec. 6.
- Deodorizing cream, Perspiration. Denney & Denney. No. 140,790; Mar. 29; v. 284; p. 943.
- Depilatories. J. Donner. No. 147,208; Oct. 4.
- Depilatory. Vail Brothers. No. 139,657; Feb. 8; v. 283; p. 354.
- Desks. Gunn Furniture Company. No. 149,936; Dec. 27.
- Desks. H. R. Langslow. No. 149,984; Dec. 27.
- Desks. Leopold Desk Company. No. 139,459; Feb. 1; v. 283; p. 176.
- Detergent. Chemical Utilities Company. No. 145,936; Aug. 23; v. 289; p. 787.
- Detergent. Chemical Utilities Company, Inc. No. 147,762; Nov. 1.
- Detergent and polishing materials. Chemical Utilities Company. No. 147,955; Nov. 8.
- Detergent, Automatic. B. D. Pinkney. No. 147,370; Oct. 11.
- Detergent for cleaning wearing-apparel, &c. La France Manufacturing Co. No. 139,720; Feb. 15; v. 283; p. 541.
- Detergents, astringents, and medicinal preparations for the gums, &c. D and I Laboratories. No. 139,976; Mar. 1; v. 284; p. 173.
- Device for use in writing. Sornin & Discry. No. 142,773; May 17; v. 286; p. 634.
- Diaper-cloth. Jordan Marsh Company. No. 140,850; Mar. 29; v. 284; p. 945.
- Diaper-cloth. Sears, Roebuck and Co. No. 147,684; Oct. 25.
- Diaper-flannel in the piece. Sears, Roebuck and Co. No. 144,923; July 19; v. 288; p. 622.
- Diary and record ledger-books, Lawyers' systematized. G. L. Miller. No. 147,796; Nov. 1.
- Diatomaceous filters. Allen Filter Company, The. No. 145,881; Aug. 16; v. 289; p. 601.
- Die-holders, screw-plate guides, &c. Union Twist Drill Company. No. 145,197; July 26; v. 288; p. 816.
- Die punches, Steel letter-. Marburg Brothers. No. 146,593; Sept. 13; v. 290; p. 422.
- Dies, Marking-. Pannier Bros. Stamp Co. No. 143,707; June 7; v. 287; p. 186.
- Dies, Metal-punching. Schoder & Lombard Stamp & Die Co. No. 140,675; Mar. 22; v. 284; p. 747.
- Dies, reamers, taps, &c. Camden Manufacturing Company. No. 147,450; Oct. 18.
- Diastocks and hand pipe-cutters and parts thereof, &c. Borden Company. No. 148,363; Nov. 15.
- Dihydrochlorid of dioxidiaminoarsenobenzol. Etablissements Poulenc Freres. No. 144,316; June 28; v. 287; p. 780.
- Dip and disinfectant for animals and poultry and household use. Barker, Moore & Mein Medicine Company. No. 143,786; June 7; v. 287; p. 189.
- Directory and reference-book, Annual. F. E. Murray. No. 143,103; May 24; v. 286; p. 849.
- Dish-washing machine. Walker Brothers Company. No. 144,081; June 21; v. 287; p. 583.
- Dish-washing machines and parts thereof, Electric. Mermaid Dish Washer Company. No. 146,296; Sept. 6; v. 290; p. 201.
- Dish, scrub, and sponge cloth, cotton duck, &c. Hooper Sons' Manufacturing Company. No. 139,324; Feb. 1; v. 283; p. 169.
- Disinfectant. Coal Tar Products Inc. No. 145,631; Aug. 16; v. 289; p. 592.
- Disinfectant. Mackie Pine Oil Specialty Co. No. 139,000; Jan. 18; v. 282; p. 555.
- Disinfectant and cleansing compound. Sawyer Crystal Blue Company. No. 149,228; Dec. 6.
- Disinfectant and insecticide. San Antonio Drug Co. No. 147,027; Sept. 27; v. 290; p. 805.
- Disinfectant, bedbug preparation, and mosquito-lotion. C. E. Trichel. No. 149,263; Dec. 6.
- Disinfectant, General. Corona Chemical Company. No. 141,909; May 3; v. 286; p. 183.
- Disinfectant, Household. Barker, Moore & Mein Medicine Company. No. 142,356; May 10; v. 286; p. 407.
- Disinfectant, insecticide, and deodorizer. San Antonio Drug Co. No. 147,026; Sept. 27; v. 290; p. 805.
- Disinfectants. R. A. Cassidy. No. 144,179; June 28; v. 287; p. 773.
- Disinfectants. L. W. Kjaer. No. 146,790; Sept. 20; v. 290; p. 635.
- Disinfectants and air-conditioning preparations. Sanitas Company. No. 149,226; Dec. 6.
- Disinfectants and deodorants. Ideal Disinfectant Co. No. 138,976; Jan. 18; v. 282; p. 554.
- Disinfectants and deodorants. Ideal Disinfectant Corporation. No. 140,146; Mar. 8; v. 284; p. 365.
- Disinfectants and deodorants. Kemiko Co. No. 147,784; Nov. 1.
- Disinfectants and deodorizers. Barclay & Barclay. No. 147,196; Oct. 4.
- Disinfectants, insecticides, and exterminators. R. J. Ruglen. No. 146,602; Sept. 13; v. 290; p. 422.
- Disinfectants, insecticides, and deodorants. Sanitas Company. Nos. 150,100-1; Dec. 27.
- Disinfectants, insecticides, deodorants. Sanitas Company. Nos. 149,223-5; Dec. 6.
- Display devices. C. L. Scovik. No. 145,291; July 26; v. 288; p. 825.
- Display-racks. J. M. Kappus. No. 144,590; July 12; v. 288; p. 424.
- Display-shelves. H. B. Howe Company. No. 149,115; Dec. 6.
- Dogs, Thoroughbred. J. Gans. No. 149,576; Dec. 13.
- Doll beds and cribs. Michigan Wire Goods Co. No. 149,699; Dec. 20.
- Doll furniture. A. S. Payne, Inc. No. 146,326; Sept. 6; v. 290; p. 202.
- Doll swings and high chairs, toy sulkies and drums. Presto Mfg. Co. No. 144,624; July 12; v. 288; p. 425.
- Doll with flexible joints. M. R. Schnack. No. 149,231; Dec. 6.
- Dolls. S. E. Delavan. Nos. 142,497-8; May 17; v. 286; p. 626.
- Dolls. George Borgfeldt & Co. No. 148,792; Nov. 29.
- Dolls. E. I. Horsman & Aetna Doll Co. No. 148,860; Nov. 29.
- Dolls. Irokesa Trading Corporation. No. 149,121; Dec. 6.
- Dolls. Kentucky Derby Co. No. 142,653; May 17; v. 286; p. 630.
- Dolls. Miller Rubber Company, The. No. 149,455; Dec. 13.
- Dolls. M. B. Moran. No. 148,168; Nov. 8.
- Dolls. Notaseme Hosiery Company. Nos. 150,028-9; Dec. 27.
- Dolls. Samstag & Hilder Bros. No. 142,744; May 17; v. 286; p. 633.
- Dolls. Trego Doll Mfg. Co. No. 146,150; Aug. 30; v. 289; p. 1016.
- Dolls. United States Tent & Awning Company. No. 142,809; May 17; v. 286; p. 635.
- Dolls. Wexler, Goldstein & Co. No. 148,961; Nov. 29.
- Dolls and doll dress outfits. C. Bloom, Inc. No. 144,550; July 12; v. 288; p. 423.
- Dolls and dolls' hats and dresses. G. F. Gillespie. No. 142,546; May 17; v. 286; p. 627.
- Dolls. Bisque-headed. George Borgfeldt & Co. No. 149,849; Dec. 27.
- Dolls, Cut-out. W. Donahey. No. 148,816; Nov. 29.
- Dolls, Dancing. W. H. Price, Jr. No. 148,917; Nov. 29.
- Dolls, dresses, and patterns therefor. M. F. Gardineer. No. 143,342; May 31; v. 286; p. 1049.
- Dolls, Mechanical. F. B. Meehan. No. 150,004; Dec. 27.
- Dolls, paper dolls, and dolls' outfits. H. D. Silberman. No. 142,561; May 17; v. 286; p. 627.
- Dolls, Rag. J. E. Greene. No. 148,060; Nov. 8.
- Doors, Collapsible. B. F. Graham. No. 143,355; May 31; v. 286; p. 1049.
- Doors, Screen-. Cadillac Lumber Company. No. 140,031; Mar. 1; v. 284; p. 175.
- Douche. Douchetts Product Company. No. 141,925; May 3; v. 286; p. 184.
- Doughnuts. Gahan Baking Company. No. 149,675; Dec. 20.
- Doughnuts. T. J. O'Leary. No. 146,828; Sept. 20; v. 290; p. 636.
- Doughnuts, pastry goods, and sandwiches. E. L. Ballew. No. 141,855; May 3; v. 286; p. 182.
- Drain-pipes, Chemical solution for removal of obstructions in. T. W. Galloway. No. 148,836; Nov. 29.
- Draperies in the piece or bolt. Burnham-Munger-Root Dry Goods Company. No. 145,328; Aug. 2; v. 289; p. 177.
- Drawing and surveying instruments, &c. David White Co. No. 146,405; Sept. 6; v. 290; p. 204.
- Drawing instruments. Keuffel & Esser Company. Nos. 143,060-1; May 24; v. 286; p. 847.
- Drawings or pictures, Series of comic. King Features Syndicate. Nos. 143,988-9; June 21; v. 287; p. 580.



*Alphabetical list of trade-marks—Continued.*

- Drawings or pictures, Series of comic. Star Company. Nos. 140,220-2; Mar. 8; v. 284; p. 367.
- Dress-form sets. Liberty Paper Co. No. 149,141; Dec. 6.
- Dress goods in the piece, All-wool. W. W. Rycroft & Co. No. 147,398; Oct. 11.
- Dress-protector. I. M. Weisert. No. 145,858; Aug. 16; v. 289; p. 599.
- Dress-shields. J. J. Beyerle Mfg. Co. Nos. 138,578-9; Jan. 4; v. 282; p. 185.
- Dress-shields. J. J. Beyerle Mfg. Co. No. 139,250; Feb. 1; v. 283; p. 167.
- Dress-shields. S. K. Naschek. No. 142,059; May 3; v. 286; p. 188.
- Dress-shields. J. Stein. No. 138,712; Jan. 4; v. 282; p. 189.
- Dress-shields and diaper-supporters, Armpit. M. S. George. No. 148,046; Nov. 8.
- Dress-shields and garters. I. B. Kleiner Rubber Company. No. 138,653; Jan. 4; v. 282; p. 188.
- Dress-silks in the piece. Jansen and Pretzfeld. No. 139,330; Feb. 1; v. 283; p. 170.
- Dress-trimmings, Certain named. Maass & Kemper. No. 145,406; Aug. 2; v. 289; p. 180.
- Dresses. Cee Bee Gee Dress Co. No. 147,563; Oct. 25.
- Dresses. Crown, Inc. No. 141,528; Apr. 26; v. 285; p. 779.
- Dresses. Guy D. Sisson Company. No. 148,263; Nov. 8.
- Dresses. A. Harris. No. 147,623; Oct. 25.
- Dresses. G. E. Jackson. No. 141,147; Apr. 12; v. 285; p. 381.
- Dresses. Kohn, Leinhardt & Simon. No. 148,460; Nov. 15.
- Dresses. H. J. Linsk. No. 147,350; Oct. 11.
- Dresses. Morris & Company. No. 141,618; Apr. 26; v. 285; p. 781.
- Dresses. G. Schulman. No. 144,920; July 19; v. 288; p. 622.
- Dresses and aprons, House-. Dayton Dress Company. No. 142,494; May 17; v. 286; p. 626.
- Dresses and aprons, House. Ely & Walker Dry Goods Company. No. 148,826; Nov. 29.
- Dresses and costumes. Pansy Waist Co. No. 148,504; Nov. 15.
- Dresses and costumes, Ladies'. I. Heller & Co. No. 142,877; May 17; v. 286; p. 639.
- Dresses and middie-blouses and ladies' waists, Misses' and children's. Rice-Stix Dry Goods Company. No. 142,728; May 17; v. 286; p. 632.
- Dresses and rompers, Infants' and children's. B. A. Collins & Co. No. 140,580; Mar. 22; v. 284; p. 744.
- Dresses and skirts, Ladies' and misses'. Reinhold Company. No. 142,725; May 17; v. 286; p. 632.
- Dresses and skirts, Ladies', children's, and infants'. S. Borger. No. 143,557; June 7; v. 287; p. 182.
- Dresses, aprons, &c., Women's house-. Cohen-Gross Manufacturing Co. No. 139,275; Feb. 1; v. 283; p. 168.
- Dresses, Children's. L. Borgenicht. No. 140,757; Mar. 29; v. 284; p. 942.
- Dresses, Children's. Cooper, Coate & Casey Dry Goods Co. No. 141,524; Apr. 26; v. 285; p. 778.
- Dresses, Children's. J. C. Eberhart. No. 139,291; Feb. 1; v. 283; p. 168.
- Dresses, Children's. A. Rosenblatt Sons & Co. No. 140,529; Mar. 15; v. 284; p. 585.
- Dresses, Children's. Wagman & Kates. No. 143,505; May 31; v. 286; p. 1054.
- Dresses, cloaks, and suits. Rosenthal & Targoff. No. 148,527; Nov. 15.
- Dresses, coats, rompers, bloomers, &c., for children, misses, and juniors. Hanover Mfg. Co. No. 149,096; Dec. 6.
- Dresses, coats, suits, and frocks, Women's. Nancy-Pam Frocks. No. 147,650; Oct. 25.
- Dresses for women. E. Goldson. No. 143,956; June 21; v. 287; p. 579.
- Dresses, Girls'. Nu-Stile Every-Week Dress Co. No. 139,090; Jan. 18; v. 282; p. 560.
- Dresses, Girls' and misses'. Schroeder & Company. No. 148,774; Nov. 22.
- Dresses, House-. Ty-On Frocks Co. No. 149,330; Dec. 6.
- Dresses, Infants' and children's colored wash-. Universal Childrens Dress Co. No. 149,274; Dec. 6.
- Dresses, middie-blouses, skirts, and bloomers for girls, misses, and ladies. Jungmann-Landecker Garment Co. No. 145,703; Aug. 16; v. 289; p. 594.
- Dresses, Misses' and children's. Cooper, Coate & Casey Dry Goods Co. No. 145,640; Aug. 16; v. 289; p. 592.
- Dresses, Misses' and ladies'. Ansonia Dress & Costume Mfg. Co. No. 140,733; Mar. 29; v. 284; p. 941.
- Dresses, rompers, and middies, Children's. R. E. Liedike. No. 147,349; Oct. 11.
- Dresses, rompers, creepers, and suits for children. Rosenau Bros. No. 143,732; June 7; v. 287; p. 187.
- Dresses, rompers, hats, underwear, Children's. M. Perfect. No. 146,837; Sept. 20; v. 290; p. 636.
- Dresses, suits, and coats, Children's, misses', and women's. L. Bogen. No. 143,556; June 7; v. 287; p. 182.
- Dresses, suits, &c., Ladies'. I. Zimetbaum. No. 141,280; Apr. 12; v. 285; p. 385.
- Dresses, suits, pants, rompers, &c., for women and children. G. Pfeffer. No. 145,777; Aug. 16; v. 289; p. 596.
- Dresses, undergarments, &c., Infants' and children's white. Monsheimer and Jacobs. No. 142,056; May 3; v. 286; p. 188.
- Dresses, waists, and undergarments, Ladies'. J. H. Valenstein. No. 145,586; Aug. 9; v. 289; p. 408.
- Dresses, waists, coats, &c., Ladies', misses', and children's. Lipson & Adelson. No. 140,710; Mar. 22; v. 284; p. 750.
- Dresses, waists, coats, suits, and skirts. Lipson & Adelson. No. 145,728; Aug. 16; v. 289; p. 595.
- Dresses, Wedding and evening. F. Schneider. No. 148,254; Nov. 8.
- Dresses, Women's and children's. A. Munroe. No. 143,101; May 24; v. 286; p. 849.
- Dresses, Women's outer. S. Bachmuth. No. 140,741; Mar. 29; v. 284; p. 941.
- Dresses, Women's outer. S. S. Robertson. No. 141,431; Apr. 19; v. 285; p. 568.
- Dressing for auto-tops, mohair, canvas, belts, &c. Textile, Leather & Metal Preserver Co. No. 149,522; Dec. 13.
- Dressing for leather, imitation leather, upholstery, &c. Eperson-Lindsley Paint Company. No. 139,931; Feb. 22; v. 283; p. 758.
- Dressing-sacks, negligees, undergarments. K. A. Feare & Co. No. 148,404; Nov. 15.
- Dressings for power-transmission belts. Cling-Surface Company. No. 147,283; Oct. 11.
- Dried fruit. Washington Growers Packing Corporation. No. 142,822; May 17; v. 286; p. 635.
- Dried sausages. Western Sausage & Provision Co. No. 142,395; May 10; v. 286; p. 411.
- Driers and spray-nozzles. W. L. Fleisher & Co. No. 148,832; Nov. 29.
- Driers, filters, separators, and unloaders, conveyers, elevators, and mixers therefor, Centrifugal. S. S. Hepworth Co. No. 148,582; Nov. 15.
- Drill-rods and cold-drawn steel. Pittsburgh Tool Steel Wire Company. No. 149,483; Dec. 13.
- Drills and attachments therefor, Radial. Niles-Bement-Pond Company. No. 145,165; July 26; v. 288; p. 815.
- Drills, Bonding-. Buda Company. No. 140,029; Mar. 1; v. 284; p. 175.
- Drills, chevriots, shirtings, and cottonades in the piece. Cooper, Coate & Casey Dry Goods Co. Nos. 139,445-6; Feb. 1; v. 283; p. 174.
- Drills, Cotton. Neuss, Hesslein & Co. No. 148,180; Nov. 8.
- Drills, drill-sharpeners, drill-bits, and parts thereof, Rock-Denver Rock Drill Manufacturing Company. No. 149,898; Dec. 27.
- Drills, Electric. A. H. Petersen Mfg. Co. No. 139,866; Feb. 22; v. 283; p. 754.
- Drills, Electric hand-. Knight Engineering & Sales Co. No. 146,791; Sept. 20; v. 290; p. 635.
- Drills, grinders, magnet-chucks, &c., Electric. Fairbanks Co. No. 144,569; July 12; v. 288; p. 423.
- Drills, screwdrivers, valve-grinders, Boring-. Black & Decker Manufacturing Co. No. 140,257; Mar. 8; v. 284; p. 369.
- Drills, Twist-. National Twist Drill & Tool Company. No. 141,418; Apr. 19; v. 285; p. 568.
- Drills, valve-grinders, and combination boring-drills and valve-grinders, Boring-. Bilt-Rite Manufacturing Company. No. 139,487; Feb. 8; v. 283; p. 349.
- Drillings in the piece, Blue. Boott Mills. No. 139,767; Feb. 22; v. 283; p. 751.
- Drink and syrup for making same, Fruit. R. D. Hamilton. No. 142,874; May 17; v. 286; p. 639.
- Drink made from herbs, roots, &c., Non-alcoholic. J. R. Manley. No. 146,653; Sept. 13; v. 290; p. 428.
- Drink, Maltless soft. J. A. Ring. No. 149,609; Dec. 13.
- Drink, Non-intoxicating cola. T. K. Schwartzah. No. 139,624; Feb. 8; v. 283; p. 353.
- Drinks, flavorings, syrups, fruit-acids, &c., Non-alcoholic soft. West End Brewing Co. No. 139,052; Jan. 18; v. 282; p. 556.
- Drinks, Soft. Crescent Bottling Co. No. 147,578; Oct. 25.
- Drugs, chemicals, druggists' supplies and sundries. Super Seal Service. No. 138,872; Jan. 11; v. 282; p. 378.
- Drums and barrels, Sheet-metal. Draper Manufacturing Company. No. 140,111; Mar. 8; v. 284; p. 364.
- Drying-machines. E. W. Hamacher. No. 147,619; Oct. 25.
- Dumping units. Horizontal Hydraulic Hoist Company. No. 138,907; Jan. 11; v. 282; p. 381.
- Duplicating-rolls. Beck Duplicator Company. No. 146,175; Sept. 6; v. 290; p. 197.
- Dust-cloths. Tate Manufacturing Company. No. 144,285; June 28; v. 287; p. 777.
- Dust-collecting machinery and apparatus and systems and pneumatic conveying machinery, apparatus, and systems. Dust Recovering & Conveying Company. No. 143,938; June 21; v. 287; p. 579.
- Dust-collectors and separators, hoods, fans, and blowers. York Heating and Ventilating Corporation. No. 149,627; Dec. 13.
- Dusters and dust-brushes, Feather. H. Aronson & Co. No. 139,240; Feb. 1; v. 283; p. 167.
- Dye. Nu Tint Co. No. 139,690; Feb. 8; v. 283; p. 357.
- Dye. L. E. Scofield. No. 145,903; Aug. 16; v. 289; p. 603.
- Dye compound for hair, particularly live hair, Fluid. I. H. Stoll. No. 140,983; Mar. 29; v. 284; p. 949.



*Alphabetical list of trade-marks—Continued.*

- Dye for leather. Black. Tintorial Company. No. 146,148; Aug. 30; v. 289; p. 1015.
- Dye from hair. Commodity for removing. Hyman & Oppenheim. No. 147,000; Sept. 27; v. 290; p. 805.
- Dye, Hair-. Scheffler Hair Colorine Company. No. 145,807; Aug. 16; v. 289; p. 597.
- Dye in soap form. Conrad Chemical Co. No. 144,519; July 5; v. 288; p. 198.
- Dye, Leather-. Whittemore Brothers Corporation. No. 145,865; Aug. 16; v. 289; p. 599.
- Dye preparation, Liquid. H. R. Bass. No. 148,995; Dec. 6.
- Dye, Straw-hat. Boston Blacking Company. Nos. 146,693-4; Sept. 20; v. 290; p. 632.
- Dye, Straw-hat. Owl Drug Company. No. 142,080; May 3; v. 286; p. 189.
- Dyes. Anderson, Meyer & Co. No. 143,841; June 14; v. 287; p. 399.
- Dyes. Henry Ashwell & Company (1908). No. 140,073; Mar. 8; v. 284; p. 363.
- Dyes. S. C. Markatos. No. 143,999; June 21; v. 287; p. 580.
- Dyes. Newport Chemical Works. No. 150,027; Dec. 27.
- Dyes. North American Dye Corporation. No. 146,121; Aug. 30; v. 289; p. 1015.
- Dyes. Palatine Aniline & Chemical Corporation. No. 140,921; Mar. 29; v. 284; p. 947.
- Dyes. G. F. Romano. No. 145,520; Aug. 2; v. 289; p. 186.
- Dyes. Tah Chang Sen & Co. Nos. 145,834-7; Aug. 16; v. 289; p. 598.
- Dyes. Tah Chang Sen & Co. No. 146,375; Sept. 6; v. 290; p. 203.
- Dyes. A. F. Thane & Co. No. 143,489; May 31; v. 286; p. 1053.
- Dyes. Young Smyth Field Company. No. 139,057; Jan. 18; v. 282; p. 556.
- Dyes and dyeing compositions. Carpenter-Morton Company. No. 144,155; June 21; v. 287; p. 583.
- Dyes and dyestuffs. Grasselli Chemical Company. No. 147,317; Oct. 11.
- Dyes and dyestuffs. Marden, Orth & Hatings Corporation. No. 143,076; May 24; v. 286; p. 848.
- Dyes, Anilin. E. M. Thayer. No. 145,838; Aug. 16; v. 289; p. 598.
- Dyes, Anilin. Wetterwald & Pfister Co. No. 139,053; Jan. 18; v. 282; p. 556.
- Dyes, Coal-tar. John Campbell & Co. No. 145,621; Aug. 16; v. 289; p. 592.
- Dyes combined with soap flakes. Magic Manufacturing Co. No. 139,833; Feb. 22; v. 283; p. 753.
- Dyes, dyestuffs, and colors. National Aniline & Chemical Company. No. 147,502; Oct. 18.
- Dyes in the form of indigo paste. Tah Chang Sen & Co. Nos. 145,832-3; Aug. 16; v. 289; p. 598.
- Dyes, Soap. Lever Brothers Company. No. 139,158; Jan. 25; v. 282; p. 734.
- Dyestuffs. H. Carpenter. No. 140,767; Mar. 29; v. 284; p. 942.
- Dyestuffs. Cincinnati Chemical Works. No. 147,957; Nov. 8.
- Dyestuffs. Geigy Company. Nos. 143,011-12; May 24; v. 286; p. 846.
- Dyestuffs. Geigy Company. No. 146,644; Sept. 13; v. 290; p. 427.
- Dyestuffs. Geigy Company, Inc. No. 148,580; Nov. 15.
- Dyestuffs. Geigy Company. No. 149,067; Dec. 6.
- Dyestuffs. John Campbell & Co. No. 140,339; Mar. 15; v. 284; p. 580.
- Dyestuffs. Maasrichtsche Zinkwit Maatschappij. Nos. 147,353-4; Oct. 11.
- Dyestuffs. Marietta Refining Co. No. 143,078; May 24; v. 286; p. 848.
- Dyestuffs. National Aniline & Chemical Company. Nos. 139,843-52; Feb. 22; v. 283; p. 754.
- Dyestuffs, &c. National Aniline & Chemical Company. No. 145,985; Aug. 23; v. 289; p. 789.
- Dyestuffs. Pennrich & Company. No. 140,928; Mar. 29; v. 284; p. 947.
- Dyestuffs. E. I. du Pont de Nemours & Company. No. 142,366; May 10; v. 286; p. 408.
- Dyestuffs. E. I. du Pont de Nemours & Company. No. 142,368; May 10; v. 286; p. 408.
- Dyestuffs. E. I. du Pont de Nemours & Co. Nos. 143,588-93; June 7; v. 287; p. 183.
- Dyestuffs. E. I. du Pont de Nemours & Company. No. 145,655; Aug. 16; v. 289; p. 593.
- Dyestuffs. E. I. du Pont de Nemours & Company. No. 148,819; Nov. 29.
- Dyestuffs and chemicals used in dyeing and bleaching. Central Dyestuffs & Chemical Co. No. 141,889; May 3; v. 286; p. 183.
- Dyestuffs and coal-tar intermediates. White Tar Aniline Corp. No. 147,188; Oct. 4.
- Dyestuffs, certified food-colors, and intermediates. National Aniline & Chemical Company. Nos. 147,133-6; Oct. 4.
- Dyestuffs, intermediates, and food-colors. National Aniline and Chemical Company. Nos. 144,872-7; July 19; v. 288; p. 621.
- Dyestuffs, intermediates, certified food-colors. National Aniline & Chemical Company. Nos. 144,243-50; June 28; v. 287; p. 775.
- Dyewood and tanning extracts, Certain. Imperial Dyewood Corporation. No. 147,114; Oct. 4.
- Dynamos, electric motors, &c. Remy Electric Company. No. 140,296; Mar. 8; v. 284; p. 373.
- Dyspepsia treatment. W. J. Ogar. No. 142,077; May 3; v. 286; p. 189.
- Ears, clamps, and hangers for suspending trolley-wires, &c. Ohio Brass Company. No. 144,138; June 21; v. 287; p. 589.
- Eczema, Cream for. W. H. Moore. No. 146,818; Sept. 20; v. 290; p. 635.
- Edgers. Gordon Hollow Blast Grate Company. No. 147,216; Oct. 4.
- Edgings, braids, tapes, belting, and elastics. George Williams Company. No. 139,432; Feb. 1; v. 283; p. 173.
- Educational and amusement appliance, Child's. G. L. E. Klingbell. No. 149,690; Dec. 20.
- Educational device. A. L. Runyan. No. 146,603; Sept. 13; v. 290; p. 422.
- Effervescent salt used in the treatment of migraine, auto-intoxication, &c. William S. Merrell Company. No. 143,082; May 24; v. 286; p. 848.
- Effervescing salt. Pepsin Seltzer Company. No. 142,386; May 10; v. 286; p. 410.
- Egg albumen and yolk. Powdered. Orbis Products Trading Co. No. 145,570; Aug. 9; v. 289; p. 408.
- Egg-boilers, Time-controlled. Perfect Automatic Egg Timer and Manufacturing Company. No. 147,512; Oct. 18.
- Egg-preserved. K & G Laboratories Co. No. 149,969; Dec. 27.
- Egg-preserving compound. S. & V. Products Co. No. 143,486; May 31; v. 286; p. 1053.
- Egg-preserving preparations. Rub-No-More Co. No. 138,698; Jan. 4; v. 282; p. 189.
- Egg substitute. H. V. Knight. No. 143,658; June 7; v. 287; p. 185.
- Egg substitute. J. V. Malmight. No. 143,394; May 31; v. 286; p. 1050.
- Egg substitute. Mountain States Manufacturing Co. No. 140,905; Mar. 29; v. 284; p. 946.
- Egg substitute. H. C. Roce. No. 139,030; Jan. 18; v. 282; p. 556.
- Egg substitute. J. S. Ziegler Company. No. 148,562; Nov. 15.
- Egg-white preparation for making white cake, &c. International Company. No. 144,805; July 19; v. 288; p. 619.
- Egg-white preparation for making white cake, &c. International Company. No. 144,806; July 19; v. 288; p. 619.
- Eggs. C. Ahlers. No. 145,926; Aug. 23; v. 289; p. 787.
- Eggs. California Central Creameries. No. 144,655; July 12; v. 288; p. 427.
- Eggs. M. E. Emmons. No. 144,567; July 12; v. 288; p. 423.
- Eggs. Northern Wisconsin Produce Co. No. 139,591; Feb. 8; v. 283; p. 352.
- Eggs. Poultry Producers of Central California. No. 139,607; Feb. 8; v. 283; p. 353.
- Eggs. Poultry Producers of Central California. Nos. 146,334-5; Sept. 6; v. 290; p. 202.
- Eggs and butter. Geo. R. Eldridge Co. No. 147,209; Oct. 4.
- Eggs and butter. Spangenberg & Co. No. 144,670; July 12; v. 288; p. 429.
- Eggs and egg products. H. J. Keith Company. No. 139,558; Feb. 8; v. 283; p. 351.
- Eggs and live and dressed poultry. George F. Hinrichs, Incorporated. No. 143,645; June 7; v. 287; p. 184.
- Eggs, butter, poultry. George F. Hinrichs, Incorporated. No. 145,964; Aug. 23; v. 289; p. 788.
- Eggs, Fresh. Drucker & Lindy. No. 145,076; July 26; v. 288; p. 812.
- Eggs, Fresh. W. B. Taylor. No. 143,487; May 31; v. 286; p. 1053.
- Eggs, Frozen. Morris Oyson Company. No. 143,404; May 31; v. 286; p. 1051.
- Eggs, Sex-indicator adapted for testing. A. D. Neuschaefer. No. 139,583; Feb. 8; v. 283; p. 352.
- Eggs, Substitute for whole fresh. Newton Tea & Spice Company. No. 140,499; Mar. 15; v. 284; p. 584.
- Elastic braids. Narrow Fabric Co. No. 150,020; Dec. 27.
- Elastic vehicle-tires. Goodyear Tire & Rubber Company. No. 140,538; Mar. 15; v. 284; p. 587.
- Elastic webbing. Hope Webbing Company. No. 149,950; Dec. 27.
- Elastic webbing. Julius Wile Sons & Co. No. 150,179; Dec. 27.
- Elastics. Wm. B. Bliss Jr. & Co. No. 147,751; Nov. 1.
- Elatrite used as a paint. G. R. Raymond. No. 141,646; Apr. 26; v. 285; p. 782.
- Elbows, stovepipe, stoves, ovens. Simmons Hardware Company. No. 139,392; Feb. 1; v. 283; p. 171.
- Electric air-heating apparatus. H. H. Berry. No. 140,553; Mar. 22; v. 284; p. 743.
- Electric apparatus, &c. Huntington & Guerry Inc. No. 144,801; July 19; v. 288; p. 618.
- Electric art lighting fixtures. Lincoln Manufacturing Company. No. 146,584; Sept. 13; v. 290; p. 422.



- Electric-battery testers. Forest Electric Co. No. 148,408; Nov. 15.
- Electric cable. Habirshaw Electric Cable Company. No. 139,717; Feb. 15; v. 283; p. 541.
- Electric cable and insulated wire. Habirshaw Electric Cable Company. No. 149,313; Dec. 6.
- Electric-cable hangers. Cameron Appliance Company. No. 140,091; Mar. 8; v. 284; p. 363.
- Electric control-cabinets, switch-boxes, &c. B. L. Haltenhof. No. 142,557; May 17; v. 286; p. 627.
- Electric controllers. Baker R & L Company. No. 149,754; Dec. 20.
- Electric-current rectifiers. Forest Electric Co. No. 148,028; Nov. 8.
- Electric dynamos and motors. Fairbanks, Morse & Co. No. 140,593; Mar. 22; v. 284; p. 744.
- Electric engine-starting systems, switches, &c. Gray & Davis. No. 148,842; Nov. 29.
- Electric fans, motors, and generators. Robbins & Myers Company. No. 143,870; June 14; v. 287; p. 402.
- Electric generators. Harley-Davidson Motor Co. No. 141,291; Apr. 12; v. 285; p. 388.
- Electric generators and motors. Howell Electric Motors Company. No. 143,050; May 24; v. 286; p. 847.
- Electric heaters for liquids. Milwaukee Manufacturing Company. No. 142,619; May 17; v. 286; p. 629.
- Electric heating apparatus for heating fluids. Electric Heat Unit Co. No. 144,755; July 19; v. 288; p. 617.
- Electric heating appliances. A. Buck & Co. Calora. No. 146,187; Sept. 6; v. 290; p. 198.
- Electric heating devices and controls therefor. Steam Electric Products Company. No. 139,895; Feb. 22; v. 283; p. 755.
- Electric heating devices, particularly cigar-lighters and water-heaters. Duraelectric Corporation. No. 144,562; July 12; v. 288; p. 423.
- Electric lamps and conduit-fittings, Portable. S. Robert Schwartz & Bro. No. 144,502; July 5; v. 288; p. 196.
- Electric lamps, fixtures, and parts. F. W. Wakefield Brass Company. No. 142,817; May 17; v. 286; p. 635.
- Electric light and power plants. Linderman Steel & Machine Co. No. 143,673; June 7; v. 287; p. 185.
- Electric-light bulbs, Compound for frosting. W. F. Rau. No. 140,295; Mar. 8; v. 284; p. 373.
- Electric-light-diffusing fixtures. Luminous Specialty Company. No. 146,285; Sept. 6; v. 290; p. 201.
- Electric-light fixtures. St. Louis Brass Manufacturing Company. No. 139,898; Feb. 22; v. 283; p. 755.
- Electric-light fixtures for sewing-machines. Durkee-Davis Manufacturing Company. No. 148,000; Nov. 8.
- Electric-light plants, Unitary. Eastlite Electric Company. No. 149,665; Dec. 20.
- Electric lighting and power system, &c. Delco-Light Company. No. 140,107; Mar. 8; v. 284; p. 364.
- Electric-lighting fixtures. R. M. Beard. No. 140,749; Mar. 29; v. 284; p. 841.
- Electric-lighting fixtures. Commercial Excelite Co. No. 145,339; Aug. 2; v. 289; p. 178.
- Electric-lighting fixtures. P. I. Elias. No. 144,566; July 12; v. 288; p. 423.
- Electric-lighting fixtures. Mitchell Vance Co. No. 143,503; May 31; v. 286; p. 1054.
- Electric-lighting fixtures. R. C. Plant. No. 150,056; Dec. 27.
- Electric-lighting fixtures. Voigt Company. No. 144,487; July 5; v. 288; p. 195.
- Electric-lighting fixtures and parts thereof. M. Klein. No. 140,413; Mar. 15; v. 284; p. 582.
- Electric-lighting fixtures, Semi-indirect. Stransky Mfg. Co. No. 141,689; Apr. 26; v. 285; p. 783.
- Electric lighting plant, Unitary. Joerns-Mohr Corporation. No. 142,590; May 17; v. 286; p. 628.
- Electric machines, Dynamo. Webster Electric Company. No. 139,106; Jan. 18; v. 282; p. 561.
- Electric massage-machines. C. W. Kent. No. 144,424; July 5; v. 288; p. 193.
- Electric measuring instruments to motor-vehicles. Containers for holding and adjusting. Motorcycle Appliance Co. No. 140,903; Mar. 29; v. 284; p. 946.
- Electric motors and controllers therefor. Singer Manufacturing Company. No. 146,608; Sept. 13; v. 290; p. 422.
- Electric motors and generators, starters for motors. Crocker-Wheeler Company. No. 144,656; July 12; v. 288; p. 427.
- Electric motors and motor-generators. St. Louis Electrical Works. No. 142,783; May 17; v. 286; p. 634.
- Electric motors and parts thereof. Kinney Manufacturing Company. No. 142,214; May 3; v. 286; p. 192.
- Electric motors, switches, cut-outs, &c. The Burnett-Larsh Manufacturing Company. No. 144,710; July 19; v. 288; p. 616.
- Electric plug-clusters. Benjamin Electric Manufacturing Co. No. 144,347; July 5; v. 288; p. 191.
- Electric portable lamps and electric-lamp supports. A. C. Penn, Inc. No. 141,298; Apr. 12; v. 285; p. 389.
- Electric-resistance units, rheostats, &c. Ward Leonard Electric Company. Nos. 147,827-8; Nov. 1.
- Electric sadrons. Dover Manufacturing Company. No. 144,111; June 21; v. 287; p. 586.
- Electric sadrons. Dover Manufacturing Company, The. No. 145,887; Aug. 16; v. 289; p. 601.
- Electric searchlights and electric-lighting outfits and fixtures. Southland Steamship Company. No. 147,516; Oct. 18.
- Electric shovels. Marion Steam Shovel Company. No. 141,294; Apr. 12; v. 285; p. 388.
- Electric socket-switches, electric motors, fuses, &c. Kilo Electric Company. No. 144,826; July 19; v. 288; p. 619.
- Electric switches and machines. Splitdorf Electrical Company. No. 141,440; Apr. 19; v. 285; p. 569.
- Electric switches, cut-outs, and parts thereof. Johns-Pratt Company. No. 147,860; Nov. 1.
- Electric tachometers and electric meters. Electric Tachometer Corporation. No. 144,565; July 12; v. 288; p. 423.
- Electric tools, holsts, and circuit-breakers. Chicago Pneumatic Tool Company. No. 130,575; Nov. 15.
- Electrical ammeters. H. I. Shire. No. 145,457; Aug. 2; v. 289; p. 181.
- Electrical apparatus. F. Duffeck. No. 144,314; June 28; v. 287; p. 780.
- Electrical apparatus. P. A. Geier Company. No. 141,556; Apr. 26; v. 285; p. 779.
- Electrical apparatus. Globe Electric Company. No. 148,050; Nov. 8.
- Electrical apparatus. Gray & Davis. No. 144,526; July 5; v. 288; p. 199.
- Electrical apparatus. F. C. Mesa. No. 141,415; Apr. 19; v. 285; p. 568.
- Electrical apparatus. Monarch Engineering Company. No. 148,482; Nov. 15.
- Electrical apparatus. National Carbon Company. No. 140,539; Mar. 15; v. 284; p. 587.
- Electrical apparatus. National Carbon Company. No. 144,445; July 5; v. 288; p. 194.
- Electrical apparatus. Simplex Electric Heating Company. No. 144,934; July 19; v. 288; p. 622.
- Electrical apparatus. Westinghouse Electric & Manufacturing Company. No. 146,662; Sept. 13; v. 290; p. 429.
- Electrical apparatus, Certain. Metropolitan-Vickers Electrical Company. No. 148,161; Nov. 8.
- Electrical apparatus, Certain. Overseas Motor Service Corporation. No. 148,194; Nov. 8.
- Electrical appliances. Adapti Company. No. 141,826; May 3; v. 286; p. 181.
- Electrical appliances. Beaver Machine & Tool Co. No. 145,040; July 26; v. 288; p. 811.
- Electrical appliances. Chicago Mica Co. No. 145,060; July 26; v. 288; p. 812.
- Electrical appliances. A. Dewes Company. No. 144,380; July 5; v. 288; p. 192.
- Electrical appliances. H. A. Wilson Company. No. 144,651; July 12; v. 288; p. 426.
- Electrical attachment-plugs, sockets, and connectors. M. Propp Co. No. 141,206; Apr. 12; v. 285; p. 383.
- Electrical automotive accessories. Atwater Kent Manufacturing Company. No. 141,282; Apr. 12; v. 285; p. 387.
- Electrical conductors, Rubber-covered. Belden Manufacturing Company. No. 146,556; Sept. 13; v. 290; p. 421.
- Electrical cord connection for heating appliances. Alexander and Lavenson Electrical Supply Co. No. 144,334; July 5; v. 288; p. 191.
- Electrical devices. Bake-Rite Oven Manufacturing Company. No. 146,170; Sept. 6; v. 290; p. 197.
- Electrical insulating material. Diamond State Fibre Company. No. 141,532; Apr. 26; v. 285; p. 779.
- Electrical-lighting equipment. J. J. Johnson. No. 144,817; July 19; v. 288; p. 619.
- Electrical lights for automobiles. A. R. Gross. No. 141,365; Apr. 19; v. 285; p. 567.
- Electrical mechanism and apparatus. Societe des Moteurs Gnome et Rhone. No. 141,233; Apr. 12; v. 285; p. 384.
- Electrical motors. New Era Motor Corporation. No. 145,760; Aug. 16; v. 289; p. 596.
- Electrical-resistance elements. H. Reisinger. No. 148,230; Nov. 8.
- Electrical supplies and fixtures. C. G. Robin. No. 139,727; Feb. 15; v. 283; p. 541.
- Electrical switches and devices of various types. Danbury Electric Manufacturing Co. No. 143,312; May 31; v. 286; p. 1048.
- Electrical tools. Black & Decker Manufacturing Co. No. 141,284; Apr. 12; v. 285; p. 387.
- Electrical wires and cables. Chicago Insulated Wire & Mfg. Co. No. 141,515; Apr. 26; v. 285; p. 778.
- Electrically-driven apparatus. Landers, Frary & Clark. No. 142,376; Mar. 10; v. 286; p. 409.
- Electrically-lighted signals and parts thereof. O. Kroehle. No. 146,795; Sept. 20; v. 290; p. 635.
- Electrically-operated portable machinery. R. G. Haskins Company. No. 142,560; May 17; v. 286; p. 627.
- Electrodes, anodes and carbon-brushes. Acheson Graphite Company. No. 144,982; July 19; v. 288; p. 625.
- Electrodes, Arc-welding metal. Transportation Engineering Corporation. No. 149,261; Dec. 6.
- Electromedical apparatus. Bleadon-Dun Company. No. 144,173; June 28; v. 287; p. 773.
- Electrotyping. Metal composition used in. C. Hart. No. 143,036; May 24; v. 286; p. 847.



*Alphabetical list of trade-marks—Continued.*

- Electrotypes, stereotypes, and matrices. Partridge and Anderson Company. No. 142,081; May 3; v. 286; p. 189.
- Elevating, conveying, and power-transmission machinery. The Union Chain & Manufacturing Company. No. 139,416; Feb. 1; v. 283; p. 172.
- Elevators, escalators, hoists, &c. Otis Elevator Company. No. 140,308; Mar. 8; v. 284; p. 374.
- Embalming fluid. Beecher-Hollins Co. No. 138,944; Jan. 18; v. 282; p. 553.
- Embossed, ornamented, or silver-plated articles. Smith Metal Arts Company. No. 139,887; Feb. 22; v. 283; p. 755.
- Embossing-machine and cutting and punching dies. Fraemafix Corporation of America. No. 148,514; Nov. 15.
- Embroideries and laces in the piece, handkerchiefs. L. A. Silk. No. 139,630; Feb. 8; v. 283; p. 353.
- Embroideries and notions. Bernhard Ulmann Co. No. 144,076; June 21; v. 287; p. 583.
- Embroideries and notions. Dollfus Mieg & Cie. Societe Anonyme. No. 143,933; June 21; v. 287; p. 578.
- Embroideries and notions. Dollfus Mieg & Cie. Societe Anonyme. No. 143,935; June 21; v. 287; p. 578.
- Embroideries, dress trimmings. Richardson Dry Goods Co. No. 140,196; Mar. 8; v. 284; p. 367.
- Embroideries for military and civilian purposes. General Embroidery & Military Supply Co. No. 143,349; May 31; v. 286; p. 1049.
- Embroideries or embroidered articles. Rechsteiner Embroidery Company. No. 149,720; Dec. 20.
- Embroidery cotton, sewing-silks, knitting-yarn, &c. F. A. Patrick & Co. No. 141,794; Apr. 26; v. 285; p. 791.
- Embroidery, felt initial-letters for. Diamond Felt Initial Co. No. 141,921; May 3; v. 286; p. 184.
- Embroidery-hoops. Gibbs Manufacturing Company. No. 147,850; Nov. 1.
- Enamel. Boston Varnish Company. No. 141,324; Apr. 19; v. 285; p. 565.
- Enamel, Paint. W. A. Briggs. No. 142,946; May 24; v. 286; p. 844.
- Enamel, paste, paints, lacquers, polish, and varnishes, ready-mixed. Patek Brothers. No. 145,898; Aug. 16; v. 289; p. 603.
- Enamel, White. O'Brien Varnish Company. No. 149,602; Dec. 13.
- Enamels and varnishes. Continental Varnish Company. No. 142,480; May 17; v. 286; p. 625.
- Enamels, liquid shellac, &c., air-drying and striping. Harley-Davidson Motor Co. No. 141,756; Apr. 26; v. 285; p. 788.
- Enamels, Vitreous and porcelain. Porcelain Enamel and Manufacturing Company, Baltimore. No. 146,847; Sept. 20; v. 290; p. 636.
- Engine, automobile, piston, and compressor rings. McQuay Norris Mfg. Co. No. 141,770; Apr. 26; v. 285; p. 789.
- Engine-cylinder dressers. Stroberger and Lee. No. 148,273; Nov. 8.
- Engine cylinders and parts, Remanufactured. L. Lawrence & Co. No. 140,879; Mar. 29; v. 284; p. 946.
- Engine parts and accessories. Alloys Motor Parts Mfg. Co. No. 143,882; June 21; v. 287; p. 577.
- Engines, and certain accessories therefor, Internal-combustion. Svenska Aktienbolaget Nobel-Diesel. No. 147,701; Oct. 25.
- Engines and gas or vacuum pumps, Internal-combustion. P. J. Shouvlín. No. 144,278; June 28; v. 287; p. 776.
- Engines and machinery, Certain. Westinghouse Electric & Manufacturing Company. No. 150,168; Dec. 27.
- Engines and parts thereof, Internal-combustion. Buffalo Gasoline Motor Company. No. 144,102; June 21; v. 287; p. 586.
- Engines and parts thereof, Internal-combustion. Free-floating Poppet Valve Company. No. 147,314; Oct. 11.
- Engines and parts thereof, Oil, gas, &c. Scintilla. No. 145,215; July 26; v. 288; p. 817.
- Engines and reversing-gear mechanism, Crossheads and crosshead-shoes for fluid-operated. Barco Manufacturing Company. No. 142,444; May 17; v. 286; p. 624.
- Engines, and their parts, Internal-combustion. Supreme Motors Corporation. No. 139,641; Feb. 8; v. 283; p. 354.
- Engines and turbines and sawmill and woodworking machinery, Certain. A. H. Morner. No. 147,499; Oct. 18.
- Engines, Crude-oil. Kahlenberg Bros. Co. No. 146,581; Sept. 13; v. 290; p. 422.
- Engines, Device designed to supply moist air into the intake-manifold of gasoline. McComas & Goodwin. No. 142,596; May 17; v. 286; p. 629.
- Engines, Electrical fuel-heaters for explosive. Startit Manufacturing Company. No. 144,947; July 19; v. 288; p. 623.
- Engines for aeroplanes, &c., Internal-combustion. Cosmos Engineering Company. Nos. 144,372-3; July 5; v. 288; p. 192.
- Engines for use in propelling motor-cars, motorcycles, &c., Internal-combustion. A. Harper Son & Bean. No. 141,373; Apr. 19; v. 285; p. 567.
- Engines, Gasoline. Sears, Roebuck and Co. No. 142,754; May 17; v. 286; p. 633.
- Engines, grease cups and guns, Auxiliary air-inlet devices for internal-combustion. The Automotive Manufacturing Company. No. 143,899; June 21; v. 287; p. 577.
- Engines, Hydrocarbon-. Piersen Manufacturing Company. No. 140,520; Mar. 15; v. 284; p. 585.
- Engines, Internal-combustion. Adco Manufacturing Co. No. 143,880; June 21; v. 287; p. 577.
- Engines, Internal-combustion. Cleveland Tractor Company. No. 147,965; Nov. 8.
- Engines, Internal-combustion. Gray & Prior Machine Company. No. 146,470; Sept. 6; v. 290; p. 211.
- Engines, Internal-combustion. Sterling Engine Co. No. 140,299; Mar. 8; v. 284; p. 374.
- Engines, Internal-combustion. Turner Manufacturing Co. No. 148,950; Nov. 29.
- Engines, Internal-combustion. Weidely Motors Company. No. 146,403; Sept. 6; v. 290; p. 204.
- Engines, Lubricant-deflecting device for internal-combustion. E. M. White. No. 149,286; Dec. 6.
- Engines, Marine steam-. Marietta Manufacturing Company. No. 145,276; July 26; v. 288; p. 823.
- Engines, Oil-. P-R Engine Company. No. 144,142; June 21; v. 287; p. 589.
- Engines, oil-well-pumping powers, &c., Internal combustion. Bessemer Gas Engine Company. No. 143,911; June 21; v. 287; p. 578.
- Engines, oil-well pumping-powers, and fluid-compressors, Internal-combustion. Bessemer Gas Engine Company. No. 145,042; July 26; v. 288; p. 811.
- Engines, steam and power pumps, &c., Gas, gasoline, kerosene, and oil. Fairbanks, Morse & Co. No. 139,294; Feb. 1; v. 283; p. 169.
- Engines, Temperature-indicating devices for. Motometer Company. No. 147,500; Oct. 18.
- Engines, Vaporizing attachment for internal-combustion. American Sub-Carburetor Co. No. 141,311; Apr. 19; v. 285; p. 565.
- Engines with certain equipment and hand fire-extinguishers, Chemical fire-. Obenchain-Boyer Co. No. 147,507; Oct. 18.
- Engraved, embossed greeting-cards, pamphlets, wedding invitations, &c. Nu-Way Printing & Engraving Shop. No. 142,074; May 3; v. 286; p. 189.
- Envelops, Collection-. T. D. Oakley. No. 142,679; May 17; v. 286; p. 631.
- Envelops, Correspondence. Central Ohio Paper Company. No. 150,191; Dec. 27.
- Envelops, Correspondence. National Checking Company. No. 150,023; Dec. 27.
- Envelops, Mailing-. Berkowitz Envelope Co. No. 139,116; Jan. 25; v. 282; p. 733.
- Envelops, Mailing-. J. W. Butler Paper Company. No. 145,054; July 26; v. 288; p. 812.
- Envelops, Merchandise-. A. Herz. No. 148,074; Nov. 8.
- Envelops, Merchandise-. United States Envelope Company. No. 139,418; Feb. 1; v. 283; p. 172.
- Envelops, Parcel-post mailing-. Bemis Bro. Bag Co. No. 149,343; Dec. 13.
- Eraser for typists' use. Argus Manufacturing Company. No. 148,566; Nov. 15.
- Essence for use in making beverages. J. N. Nichols. No. 139,586; Feb. 8; v. 283; p. 352.
- Essences for the production of perfumes. Ungerer & Co. No. 142,158; May 3; v. 286; p. 191.
- Essences, fruit oils, and syrups for beverages. Chemical Works Flora. No. 146,194; Sept. 6; v. 290; p. 198.
- Essences, fruit-oils, and syrups for food-flavoring. Chemical Works Flora. No. 147,566; Oct. 25.
- Ethylhydrocuprein and its salts. Merck & Co. No. 139,165; Jan. 25; v. 282; p. 734.
- Expectorant, Sedative. Sharp & Dohme. No. 139,697; Feb. 8; v. 283; p. 358.
- External remedy for rheumatic, muscular, neuralgic pains. E. Bial. No. 140,556; Mar. 22; v. 284; p. 743.
- Extract and syrup for making soft drinks, Non-alcoholic, maltless. Lime Cola Co. No. 146,652; Sept. 13; v. 290; p. 428.
- Extract of hops and malt for preparing soft drinks. R. E. Leyendecker. No. 149,986; Dec. 27.
- Extract, Vanilla. Semrad Chemical Co. No. 142,757; May 17; v. 286; p. 633.
- Extracts and flavorings, Food. Brendlinger Company. No. 148,365; Nov. 15.
- Extracts and flavors, Fruit and vegetable. Okay Extract Company. No. 143,122; May 24; v. 286; p. 849.
- Extracts, flavors, &c. and pastes used in the manufacture of non-alcoholic beverages. Forrest-Lydlard Co. No. 139,536; Feb. 8; v. 283; p. 351.
- Extracts, Food-flavoring. Elk Manufacturing Company. No. 148,825; Nov. 29.
- Extracts for food-flavoring. Foote & Jenks. No. 141,550; Apr. 26; v. 285; p. 779.
- Extracts of various kinds, Tannin. Brevard Tannin Company. No. 140,086; Mar. 8; v. 284; p. 363.
- Extracts, Onion and garlic. J. B. Rolle. No. 139,620; Feb. 8; v. 283; p. 353.
- Extracts, Tanning. New York Quebracho Extract Company. No. 147,143; Oct. 4.
- Eye remedies. The Murine Eye Remedy Company. No. 140,655; Mar. 22; v. 284; p. 746.
- Eye waters or lotions and antiseptic and healing ointments. C. E. Cessna. No. 148,375; Nov. 15.
- Eyebrow and eyelid preparations. Julius Schmid Incorporated. No. 143,740; June 7; v. 287; p. 187.
- Eyebrow-dressing. J. L. Younghusband. No. 144,299; June 28; v. 287; p. 777.



- Eyeglass frames and mountings. New Jersey Optical Co. No. 147,505; Oct. 18.  
 Eyeglasses and spectacles. J. Beck. No. 138,943; Jan. 18; v. 282; p. 553.  
 Eyeglasses and spectacles. H. C. Rees. No. 145,286; July 26; v. 288; p. 825.  
 Eyeglasses and spectacles. United Optical Company. No. 140,458; Mar. 15; v. 284; p. 583.  
 Eyeglasses and spectacles and parts thereof. American Optical Company. No. 141,840; May 3; v. 286; p. 179.  
 Eyeglasses and spectacles and parts thereof. Bishop Company. No. 141,321; Apr. 19; v. 285; p. 565.  
 Fabric imitating silk, draperies, table-covers, &c., Fiber. A. Theo. Abbott & Co. No. 146,415; Sept. 6; v. 290; p. 205.  
 Fabric imitating silk in the piece and draperies, table-covers, &c., Fiber. A. Theo. Abbott & Co. No. 146,023; Aug. 23; v. 289; p. 791.  
 Fabrics in the piece. Cheney Brothers. No. 141,514; Apr. 26; v. 285; p. 778.  
 Fabrics in the piece, Pile. Salts' Textile Manufacturing Company. No. 149,221; Dec. 6.  
 Fabric in the piece, Pyroxylin-coated. Athol Manufacturing Company. No. 146,633; Sept. 13; v. 290; p. 425.  
 Fabric piece goods, Coach and furniture. Bridgeport Coach Lace Co. No. 145,048; July 26; v. 288; p. 811.  
 Fabric piece goods, Pile. Hind & Harrison Plush Co. No. 147,111; Oct. 4.  
 Fabric towels. Cannon Mfg. Co. No. 147,948; Nov. 8.  
 Fabrics. Cheney Brothers. No. 139,270; Feb. 1; v. 283; p. 168.  
 Fabrics and piece goods of wool, cotton, linen, and silk, Textile. F. A. Patrick & Co. No. 142,221; May 3; v. 286; p. 192.  
 Fabrics, Coated textile. Duratex Company. No. 143,594; June 7; v. 287; p. 183.  
 Fabrics, Impregnated or coated woven. Western Cartridge Company. No. 147,830; Nov. 1.  
 Fabrics in the piece, Certain woven. C. Loegler. No. 148,892; Nov. 29.  
 Fabrics in piece, woven, knitted, &c. Cheney Brothers. No. 145,334; Aug. 2; v. 289; p. 178.  
 Fabrics in the piece, Pile. Salt's Textile Manufacturing Company. No. 142,742; May 17; v. 286; p. 633.  
 Fabrics in the piece, Pile. Salt's Textile Manufacturing Company. No. 146,139; Aug. 30; v. 289; p. 1015.  
 Fabrics in the piece, Pile. Salt's Textile Manufacturing Company. No. 146,858; Sept. 20; v. 290; p. 637.  
 Fabrics in the piece, Textile. Holden-Leonard Company. No. 145,115; July 26; v. 288; p. 814.  
 Fabrics in the piece, Woven, knitted, netted, textile, and pile. Cheney Brothers. No. 144,366; July 5; v. 288; p. 192.  
 Fabrics in the piece woven of silk in combination with cotton and wool, &c. Brainerd & Armstrong Company. No. 145,047; July 26; v. 288; p. 811.  
 Fabrics of hemp, flax, cotton, &c., in the piece. Multi-Products Export Corporation. No. 140,654; Mar. 22; v. 284; p. 746.  
 Fabrics, Oils used in treating textile. Naamlooze Vennootschap Oliefabrieken Insulinde. No. 146,302; Sept. 6; v. 290; p. 201.  
 Fabrics, Pile. Sanford Mills. No. 139,380; Feb. 1; v. 283; p. 171.  
 Fabrics, Preparation for increasing wearing properties of. Prevento-Hole, Inc. No. 145,786; Aug. 16; v. 289; p. 597.  
 Fabrics, Printed. Witcombe, McGeachin & Co. No. 139,943; Feb. 22; v. 283; p. 759.  
 Fabrics, Silk and silk mixture. Wechsler Barber Silk Co. Nos. 144,083-4; June 21; v. 287; p. 583.  
 Fabrics, Textile. Bridgeport Coach Lace Co. No. 140,028; Mar. 1; v. 284; p. 175.  
 Fabrics, Textile. Carl Schoen Silk Corporation. No. 144,919; July 19; v. 288; p. 622.  
 Fabrics, Worsted and woolen textile. Holden-Leonard Company. No. 143,647; June 7; v. 287; p. 184.  
 Face-powders. B. W. Moe. No. 144,009; June 21; v. 287; p. 587.  
 Facial masks or packs. A. M. Franco. No. 146,098; Aug. 30; v. 289; p. 1014.  
 Fancy articles and sachets, Outfit for making. Porter Chemical Company. No. 142,096; May 3; v. 286; p. 189.  
 Fancy goods and notions. Waldes & Co. No. 142,165; May 3; v. 286; p. 191.  
 Fancy goods, furnishings, and notions. Sutro Bros. Braid Company. No. 140,988; Mar. 29; v. 284; p. 949.  
 Fans and blowers. Green Fuel Economizer Company. No. 149,312; Dec. 6.  
 Fans and exhausters. L. J. Wing Mfg. Co. No. 140,472; Mar. 15; v. 284; p. 584.  
 Fans and exhausters. L. J. Wing Mfg. Co. No. 141,463; Apr. 19; v. 285; p. 569.  
 Fans, Electrically-operated. Thermo-Fan Electric Co. No. 140,448; Mar. 15; v. 284; p. 583.  
 Fans for personal use. Societe Industrielle de Celluloid. No. 144,059; June 21; v. 287; p. 582.  
 Fans, Rotary. S. Dick. No. 141,533; Apr. 26; v. 285; p. 779.  
 Farm implements. T. C. Power Company. No. 147,670; Oct. 25.  
 Farm, &c., tools. American Fork & Hoe Company. No. 146,672; Sept. 20; v. 290; p. 631.  
 Fasteners and parts thereof. G. W. J. Murphy Company. Nos. 148,486-7; Nov. 15.  
 Fasteners, Snap. Guarantee Specialty Manufacturing Company. No. 140,602; Mar. 22; v. 284; p. 745.  
 Fastenings. J. P. Eustis Manufacturing Company. No. 142,867; May 17; v. 286; p. 638.  
 Fast, locks, and parts thereof, fasteners, &c. Yale & Towne Mfg. Co. No. 142,850; May 17; v. 286; p. 636.  
 Fat, salad and cooking oils, Pure. E. Klein. No. 145,709; Aug. 16; v. 289; p. 594.  
 Fats, Cooking. Procter and Gamble Company. No. 147,672; Oct. 25.  
 Fats, Cooking. Procter and Gamble Company. No. 147,810; Nov. 1.  
 Fatty oleaginous or unctuous food substances, Prepared. Southern Cotton Oil Company. No. 145,013; July 19; v. 288; p. 629.  
 Feathers, Burnt coque. E. M. Lang. No. 138,658; Jan. 4; v. 282; p. 188.  
 Feed. J. M. Wilson. No. 142,844; May 17; v. 286; p. 636.  
 Feed, Cattle and stock. S. P. Davis. No. 148,757; Nov. 22.  
 Feed, Chicken. W. M. Cosby Flour & Grain Co. No. 148,326; Nov. 8.  
 Feed, Cow. J. E. Mugge. No. 145,983; Aug. 23; v. 289; p. 788.  
 Feed, Crushed oyster and clam shells for poultry. Leo B. Mull Co. No. 143,690; June 7; v. 287; p. 186.  
 Feed, Crushed oyster-shell used as poultry. Carolina Crushed Shell Co. No. 149,868; Dec. 27.  
 Feed, Dairy. International Sugar Feed Co. No. 140,708; Mar. 22; v. 284; p. 750.  
 Feed, Dairy. Josey-Miller Co. No. 145,392; Aug. 2; v. 289; p. 179.  
 Feed, Dairy. Pease & Dwyer Co. No. 145,435; Aug. 2; v. 289; p. 181.  
 Feed, Dairy. M. C. Peters Mill Co. No. 149,473; Dec. 13.  
 Feed, Dairy. Temtor Corn & Fruit Products Co. No. 149,518; Dec. 13.  
 Feed, Dairy. Western Feed Manufacturers. No. 147,430; Oct. 11.  
 Feed, Duck. Swift and Company. No. 139,217; Jan. 25; v. 282; p. 736.  
 Feed for horses, mules, &c. J. M. Wilson. Nos. 142,351-2; May 10; v. 286; p. 406.  
 Feed for horses, mules, cattle, hogs, and poultry. Beaumont Cotton Oil Mill Co. No. 149,637; Dec. 20.  
 Feed for horses, mules, hogs, and hens. Pease & Dwyer Co. No. 146,328; Sept. 6; v. 290; p. 202.  
 Feed for stock, Fattening. Temtor Corn & Fruit Products Co. No. 149,519; Dec. 13.  
 Feed, Grain. Pease & Dwyer Co. No. 146,329; Sept. 6; v. 290; p. 202.  
 Feed-hoppers. M. R. Jacobus. No. 142,880; May 17; v. 286; p. 639.  
 Feed, Horse. International Sugar Feed Co. No. 138,977; Jan. 18; v. 282; p. 554.  
 Feed, Horse. Ladish Milling Co. No. 140,002; Mar. 1; v. 284; p. 174.  
 Feed, Horse. Nowak Milling Corporation. No. 144,616; July 12; v. 288; p. 425.  
 Feed, Horse. Omaha Alfalfa Milling Company. No. 147,731; Oct. 25.  
 Feed, Horse and mule. Buckeye Cotton Oil Company. No. 145,057; July 26; v. 288; p. 812.  
 Feed, Horse and mule. Temtor Corn & Fruit Products Co. No. 149,520; Dec. 13.  
 Feed, Mixed. West Side Hay & Grain Co. No. 142,833; May 17; v. 286; p. 636.  
 Feed, Poultry. Josey Miller Co. No. 147,002; Sept. 27; v. 290; p. 805.  
 Feed, Poultry. Kingan & Co. No. 149,785; Dec. 20.  
 Feed, Poultry and dairy. Northrup, King, & Co. No. 146,314; Sept. 6; v. 290; p. 202.  
 Feed, Poultry, horse, &c. St. Albans Grain Company. No. 138,868; Jan. 11; v. 282; p. 378.  
 Feed, Poultry, pigeon, and stock. Blamberg Brothers. No. 144,654; July 12; v. 288; p. 427.  
 Feed, Prepared poultry. W. J. McKay. No. 149,441; Dec. 13.  
 Feed products, Animal. B. L. Sessum. No. 141,436; Apr. 19; v. 285; p. 569.  
 Feed, Scratch. J. M. Ernst & Son. No. 145,091; July 26; v. 288; p. 813.  
 Feed, Stock. Armour Grain Company. No. 138,936; Jan. 18; v. 282; p. 553.  
 Feed, Stock. Barrett, Denton & Lynn Co. No. 141,859; May 3; v. 286; p. 182.  
 Feed, Stock. MacX Feed Milling Co. No. 141,410; Apr. 19; v. 285; p. 568.  
 Feed, Stock. MacX Feed Milling Co. No. 142,524; May 17; v. 286; p. 626.  
 Feed, Stock. Miller-McConnell Grain Co. No. 143,400; May 31; v. 286; p. 1051.  
 Feed, Stock. Temtor Corn & Fruit Products Co. No. 145,526; Aug. 2; v. 289; p. 187.  
 Feed, Stock. Temtor Corn & Fruits Products Co. No. 149,517; Dec. 13.  
 Feed, Stock or sweet. Temtor Corn & Fruit Products Co. No. 149,516; Dec. 13.



*Alphabetical list of trade-marks—Continued.*

- Feed, Sweet. Pease & Dwyer Co. Nos. 144,891-2; July 19; v. 288; p. 621.
- Feeds and fish-meal, Poultry and stock. Lawrence Canning Co. No. 141,402; Apr. 19; v. 285; p. 568.
- Feeds and mashies. W. M. Cosby Flour & Grain Co. No. 146,075; Aug. 30; v. 289; p. 1015.
- Feeds, Dairy, stock, and poultry mixed. Champion Milling & Grain Co. No. 147,761; Nov. 1.
- Feeds for live stock and poultry, Mixed. International Sugar Feed Co. No. 140,150; Mar. 8; v. 284; p. 365.
- Feeds, Hen and horse and mule. Luehrmann Hay & Grain Co. No. 145,733; Aug. 16; v. 289; p. 595.
- Feeds, Manufactured horse, hog, &c. Curtiss Grain Corporation. No. 147,581; Oct. 25.
- Feeds, Poultry. E. G. Smyth Co. No. 141,681; Apr. 26; v. 285; p. 783.
- Feeds, Stock. B. L. Robertson. No. 147,677; Oct. 25.
- Feeder, Hog-. Dixie Mills. No. 141,535; Apr. 26; v. 285; p. 779.
- Felt polishing-wheels and felts therefor. Eastern Felt Company. No. 148,823; Nov. 29.
- Felt, Prepared. J. H. Stone. No. 145,229; July 26; v. 288; p. 817.
- Felts. Standard Felt Company. No. 140,440; Mar. 15; v. 284; p. 583.
- Felts and jackets, Paper-makers' woolen. Waterbury Felt Company. No. 144,968; July 19; v. 288; p. 624.
- Felts and piece goods of wool or of mixtures of wool and cotton. Edward H. Best & Co. No. 139,249; Feb. 1; v. 283; p. 167.
- Felts and piece goods of wool or part wool. Edward H. Best & Co. No. 141,869; May 3; v. 286; p. 182.
- Felts and wool, &c., piece goods, Woven. Edward H. Best & Co. No. 143,286; May 31; v. 286; p. 1047.
- Fence, Poultry-wire. American Steel & Wire Company of New Jersey. No. 139,059; Jan. 18; v. 282; p. 557.
- Fencing, Wire. B. Anderson. No. 141,481; Apr. 26; v. 285; p. 777.
- Ferromolybdenum. Climax Molybdenum Company. No. 144,370; July 5; v. 288; p. 192.
- Fertilizer. American Agricultural Chemical Company. No. 146,419; Sept. 6; v. 290; p. 205.
- Fertilizer. A. J. Averell. No. 142,437; May 17; v. 286; p. 624.
- Fertilizer. Chas. H. Lilly Co. No. 142,010; May 3; v. 286; p. 187.
- Fertilizer. Pocumoke Guano Co. No. 144,450; July 5; v. 288; p. 194.
- Fertilizer. Société d'Etudes Chimiques pour l'Industrie. No. 145,816; Aug. 16; v. 289; p. 598.
- Fertilizer-distributor. J. Blue. No. 149,848; Dec. 27.
- Fertilizer, Liquid. Excell Laboratories. No. 144,657; July 12; v. 288; p. 427.
- Fertilizers. American Agricultural Chemical Company. No. 149,751; Dec. 20.
- Fertilizers. American Agricultural Chemical Company. No. 149,816; Dec. 27.
- Fertilizers. Coe Mortimer Co. No. 143,098; May 24; v. 286; p. 849.
- Fertilizers. Coe-Mortimer Company. No. 149,881; Dec. 27.
- Fertilizers. Fertile Chemical Co. No. 144,389; July 5; v. 288; p. 192.
- Fertilizers. Fisheries Products Co. Inc. No. 149,921; Dec. 27.
- Fertilizers. J. R. Guthrie. No. 142,547; May 17; v. 286; p. 627.
- Fertilizers. U. S. Industrial Chemical Co. No. 149,532; Dec. 13.
- Fertilizers, &c. Lakeland Phosphate & Fertilizer Company. No. 149,983; Dec. 27.
- Fertilizers. V. H. Lanier. No. 142,288; May 10; v. 286; p. 404.
- Fertilizers. J. G. Lipman. No. 142,013; May 3; v. 286; p. 187.
- Fertilizers. Michigan Humus & Chemical Company. No. 150,006; Dec. 27.
- Fertilizers. Osias Karp & Gustav Veiner-Cassel. No. 148,193; Nov. 8.
- Fertilizers. Pacific Guano & Fertilizer Company, The. No. 144,887; July 19; v. 288; p. 621.
- Fertilizers. South Metropolitan Gas Company. No. 142,142; May 3; v. 286; p. 191.
- Fertilizers. United Fertilizer Company. No. 147,825; Nov. 1.
- Fever-powder, Equine. Mangan & Co. No. 141,164; Apr. 12; v. 285; p. 382.
- Fiber board. Agasote Millboard Co. No. 147,531; Oct. 25.
- Fiber-boards sold in sheets. Agasote Millboard Co. No. 143,272; May 31; v. 286; p. 1047.
- Fiber, Molded. Clark Fiber Products Corporation. No. 141,337; Apr. 19; v. 285; p. 566.
- Fiber-ware receptacles. The Cronkrite Company. No. 144,312; June 28; v. 287; p. 780.
- Figs, Preserved. Smyrna Fruit Company. No. 139,719; Feb. 15; v. 283; p. 541.
- File-cases, Prescription. Chicago Label and Box Co. No. 147,841; Nov. 1.
- Files. Ever Sharp File Co. No. 149,046; Dec. 6.
- Files. A. A. Wood & Sons Company. No. 145,300; July 26; v. 288; p. 826.
- Files and rasps. Nicholson File Company. No. 144,017; June 21; v. 287; p. 581.
- Files and rasps, holders and handles therefor. Nicholson File Company. No. 142,640; May 17; v. 286; p. 630.
- Files, cuticle-knives, &c., Nail-. Fiberloid Corporation. No. 143,334; May 31; v. 286; p. 1049.
- Files, gravers, tweezers, &c. H. Paulson. No. 149,471; Dec. 13.
- Filing appliances. McCaskey Register Company. No. 146,539; Sept. 6; v. 290; p. 219.
- Filing-cases, lockers, and shelving. Metal. Berger Manufacturing Company. No. 140,327; Mar. 15; v. 284; p. 579.
- Filing-cases, lockers, and shelving. Metal. Berger Manufacturing Company. No. 142,450; May 17; v. 286; p. 624.
- Filing-containers, mailing-envelops, letter-files. Alvah Bushnell Company. No. 146,190; Sept. 6; v. 290; p. 198.
- Filing-folder. F. J. Cooper. No. 140,783; Mar. 29; v. 284; p. 942.
- Filing-receptacles. Ross-Gould List & Letter Co. No. 139,467; Feb. 1; v. 283; p. 177.
- Fillet, Leather-. Page Belting Company. No. 143,706; June 7; v. 287; p. 186.
- Filter-stones and filters, Tripoli. American Tripoli Company. Nos. 146,676-7; Sept. 20; v. 290; p. 631.
- Filters, coolers, refrigerating apparatus, &c., House-. Societe Des Moteurs Gnome et Rhone. No. 142,772; May 17; v. 286; p. 634.
- Filters, Liquid-. The Refinite Company. No. 142,723; May 17; v. 286; p. 632.
- Filtering apparatus and filter-cylinders. Berkefeld Filter Company. No. 142,451; May 17; v. 286; p. 624.
- Finger-rings. Traub Manufacturing Company. No. 146,380; Sept. 6; v. 290; p. 204.
- Finger-rings and other articles of jewelry of precious metal. Phoel & Schaller. No. 148,507; Nov. 15.
- Fire brick and tile. Laclede-Christy Clay Products Company. No. 149,982; Dec. 27.
- Fire-brick, hollow building-tile, face-brick, &c. Crush Brick Company. No. 149,655; Dec. 20.
- Fire-bricks and paving-blocks. Geo. S. Good Fire Brick Co. No. 142,870; May 17; v. 286; p. 639.
- Fire-bricks and paving-blocks. Geo. S. Good Fire Brick Co. No. 145,676; Aug. 16; v. 289; p. 593.
- Fire-bricks and tile for metallurgical furnaces. Crescent Refractories Company. Nos. 142,362-5; May 10; v. 286; pp. 407-8.
- Fire doors and shutters. Merchant & Evans Company. No. 143,684; June 7; v. 287; p. 185.
- Fire doors and shutters, Metal. F. L. Saino Manufacturing Co. No. 146,857; Sept. 20; v. 290; p. 637.
- Fire-extinguisher, Mechanical. Safety Fire Extinguisher Co. No. 144,143; June 21; v. 287; p. 590.
- Fire-extinguishers. Erwin Manufacturing Company. No. 139,979; Mar. 1; v. 284; p. 173.
- Fire-extinguishers. Foamite Firefoam Company. No. 148,027; Nov. 8.
- Fire-extinguishers. Safety Fire Extinguisher Co. No. 142,896; May 17; v. 286; p. 641.
- Fire-extinguishers, Hand. Allen Corporation. No. 142,851; May 17; v. 286; p. 637.
- Fire-extinguishers, Hand. Ideal Fire Extinguisher Co. No. 149,955; Dec. 27.
- Fire-extinguishing compound. Fi-Er-Kil Company. No. 144,390; July 5; v. 288; p. 192.
- Fire-extinguishing compounds. Foamite Firefoam Company. No. 148,650; Nov. 22.
- Fire-extinguishing material. Wapakoneta Manufacturing Company. No. 143,215; May 24; v. 286; p. 852.
- Fire-hose, Fabric. Chas. Niedner's Sons Company. No. 145,761; Aug. 16; v. 289; p. 596.
- Fire-hydrants, indicator-posts, certain valves. Kennedy Valve Mfg. Co. No. 148,453; Nov. 15.
- Fire-sprinkler systems, Automatic. Globe Automatic Sprinkler Company. No. 147,315; Oct. 11.
- Firearms, ammunition, and pyrotechnic supplies. Winchester Repeating Arms Company. No. 142,353; May 10; v. 286; p. 406.
- Firearms and equipments therefor. Remington Arms Union Metallic Cartridge Co. No. 140,528; Mar. 15; v. 284; p. 585.
- Fireless stoves. Durham Manufacturing Company. No. 142,511; May 17; v. 286; p. 626.
- Fireproof fabrics for lamp-shades. E. Dancig. No. 145,650; Aug. 16; v. 289; p. 593.
- Fireproofing liquids. Leighton and Garland. No. 143,666; June 7; v. 287; p. 185.
- Fish and beans, canned in oil. Italian Food Products Co. Inc. No. 139,942; Feb. 22; v. 283; p. 759.
- Fish and shrimp, Cured, salt, and canned. J. S. Twombly. No. 142,801; May 17; v. 286; p. 635.
- Fish, Canned. N. Abramovitz & Co. No. 147,894; Nov. 8.
- Fish, canned and cured. L. Mikkelsen. No. 143,685; June 7; v. 287; p. 185.
- Fish, Fresh. East Coast Fisheries Products Company. No. 149,372; Dec. 13.
- Fish, Fresh and cured, clam-chowder, fish-meal, and oil. Gorton-Pew Fisheries Company. No. 144,784; July 19; v. 288; p. 618.
- Fish, Pickled, dried, &c. Koellisch & Fortmann. No. 148,117; Nov. 8.



*Alphabetical list of trade-marks—Continued.*

- Fish, Preserved. Gandara y Haz. No. 141,136; Apr. 12; v. 285; p. 381.
- Fish, Preserved. A. Watson & Co. No. 139,049; Jan. 18; v. 282; p. 556.
- Fish, salt and smoked. All varieties of frozen. Canadian Fish & Cold Storage Co. No. 143,567; July 7; v. 287; p. 182.
- Fishing-baits, Artificial. L. J. Eppinger. No. 148,828; Nov. 29.
- Fishing-lines. S. Allcock & Co. No. 148,972; Dec. 6.
- Fishing-lines. Marshall-Wells Company. No. 149,698; Dec. 20.
- Fishing-lines. Wm. H. Hoegge Co. No. 147,727; Oct. 25.
- Fishing-lines. Irish reel. B. F. Gladding & Co. Nos. 150,200-1; Dec. 27.
- Fishing-reels. The Peters Bait Co. No. 145,899; Aug. 16; v. 289; p. 603.
- Fishing-rods. Horton Manufacturing Company. No. 146,038; Aug. 23; v. 289; p. 792.
- Fishing-rods. Guides and tips for. Mitchell-Bissell Company. No. 148,481; Nov. 15.
- Fishing-tackle case. A. F. Voy. No. 148,955; Nov. 29.
- Flags. Annin & Co. No. 143,536; June 7; v. 287; p. 181.
- Flags. Emerson Manufacturing Company. No. 140,378; Mar. 15; v. 284; p. 581.
- Flanging-machines. McCabe Manufacturing Company. No. 138,911; Jan. 11; v. 282; p. 381.
- Flannel. Kelsall & Kemp. No. 146,787; Sept. 20; v. 290; p. 635.
- Flannel, pillow-tubing, cotton duck, Canton-. Marshall Field & Company. No. 145,412; Aug. 2; v. 289; p. 180.
- Flannel shirtings and other similar cloths in the piece. Kelsall & Kemp. No. 147,120; Oct. 4.
- Flannel, woolen cloths, haircloths, &c. in the piece. Kelsall & Kemp. No. 148,876; Nov. 29.
- Flannels. Cotton. Carson, Pirie, Scott & Co. No. 143,299; May 31; v. 286; p. 1047.
- Flashlight-cases and electric batteries. United States Electric Manufacturing Corporation. No. 146,384; Sept. 6; v. 290; p. 204.
- Flashlights and dry batteries. Hipwell Manufacturing Co. No. 141,383; Apr. 19; v. 285; p. 567.
- Flashlights and parts thereof. Williamson Electric Company. No. 141,719; Apr. 26; v. 285; p. 784.
- Flashlights, Electrical pocket-. International Battery Co. No. 140,841; Mar. 29; v. 284; p. 944.
- Flasks, Pocket-. Woods & Chatellier. No. 148,319; Nov. 8.
- Flat and hollow ware and jewelry. Rogers, Lunt & Bowlen Company. No. 145,194; July 26; v. 288; p. 816.
- Flat paint for finishing interior walls, &c. Indiana Indestructible Paint Co. No. 148,865; Nov. 29.
- Flat-ware, Silver-plated. International Silver Company. No. 144,809; July 19; v. 288; p. 619.
- Flat-ware, Table. Regal Silver Mfg. Co. No. 144,628; July 12; v. 288; p. 425.
- Flatirons, Electric. Chicago Flexible Shaft Company. No. 145,335; Aug. 2; v. 289; p. 178.
- Flavor used in browning any food. T. G. Lauritsen. No. 148,130; Nov. 8.
- Flavors for making non-alcoholic beverages. Buyers Export Agency. No. 145,056; July 26; v. 288; p. 812.
- Flavoring compound. Eng-Skell Company. No. 145,353; Aug. 2; v. 289; p. 178.
- Flavoring compound extract for ice-cream. Star Extract Works. No. 147,171; Oct. 4.
- Flavoring extract, Food-. Aveco Products Co. No. 140,074; Mar. 8; v. 284; p. 363.
- Flavoring extract for imparting a maple flavor, Food-. T. Henderson. No. 148,432; Nov. 15.
- Flavoring extracts. Cadmus Products Company. No. 145,935; Aug. 23; v. 289; p. 787.
- Flavoring extracts, Food-. C. F. Sauer Company. No. 149,730; Dec. 20.
- Flavoring extracts, pie fillings, spices, egg-whip. Haug & Co. No. 143,247; May 24; v. 286; p. 856.
- Flavorings for food. Lawrence Chemical Co. No. 149,693; Dec. 20.
- Flavoring for foods. Garrett and Company. No. 140,807; Mar. 29; v. 284; p. 943.
- Flavoring for foods, Concentrated vanilla. The Tisco Company. No. 138,724; Jan. 4; v. 282; p. 190.
- Flavoring material for foods. Grape Ola Products Corporation. No. 139,310; Feb. 1; v. 283; p. 169.
- Flavoring materials, Food-. The Tisco Company. No. 140,453; Mar. 15; v. 284; p. 583.
- Flavoring-matter. A. Finkenstein. No. 146,986; Sept. 27; v. 290; p. 804.
- Flavorings for confectionery, cakes, &c. Semrad Chemical Co. No. 139,208; Jan. 25; v. 282; p. 736.
- Flavoring-vanilla. Gibson Commercial Co. No. 146,750; Sept. 20; v. 290; p. 633.
- Flies or bugs for fly-fishing, Artificial. C. J. McCarthy. No. 142,595; May 17; v. 286; p. 629.
- Floor-covering. The Paraffine Companies. No. 144,023; June 21; v. 287; p. 581.
- Floor-coverings and rug-borders, Felt-base. Bird & Son. No. 143,288; May 31; v. 286; p. 1047.
- Floors and walls, Sockets and metallic strips used in laying composition and plastic. P. Galassi Corporation. No. 145,097; July 26; v. 288; p. 813.
- Floors, walls, partitions, Composition for making. American Magnesia Products Co. No. 144,338; July 5; v. 288; p. 191.
- Flooring and flooring materials. T. Mack. No. 145,138; July 26; v. 288; p. 814.
- Flooring, &c., Composition. Cheney & Co. No. 146,561; Sept. 13; v. 290; p. 421.
- Flooring, Wood. Crooks-Dittmar Co. Nos. 138,601-2; Jan. 4; v. 282; p. 186.
- Flooring, Wooden. Carter Bloxonend Flooring Co. No. 149,565; Dec. 13.
- Florist dispensing supplies. Kervan Company. No. 144,820; July 19; v. 288; p. 619.
- Flour. E. O. Challenger. No. 139,505; Feb. 8; v. 283; p. 350.
- Flour and cornmeal, Wheat-. Ansted & Burk Co. No. 147,071; Oct. 4.
- Flour and cornmeal, Wheat-. Bay City Milling Company. No. 143,284; May 31; v. 286; p. 1047.
- Flour and cornmeal, Wheat-. Black Brothers. No. 139,488; Feb. 8; v. 283; p. 349.
- Flour and cornmeal, Wheat-. Earle-McGavock Milling Company. No. 143,324; May 31; v. 286; p. 1048.
- Flour and maple-syrup, Pancake-. Fishback Co. No. 147,486; Oct. 18.
- Flour, and particularly self-rising wheat-flour, Wheat-. City Mill Company. No. 147,962; Nov. 8.
- Flour and rolled oats, Wheat-. Quaker Oats Company. No. 148,222; Nov. 8.
- Flour and self-rising flour, Wheat-. Sprague Roller Mills. Nos. 139,633-4; Feb. 8; v. 283; p. 354.
- Flour and self-rising wheat-flour, Wheat-. Mayflower Mills. No. 149,451; Dec. 13.
- Flour, Buckwheat-. B. Grantier. No. 143,805; June 7; v. 287; p. 191.
- Flour, Cake. Hoosier Milling Co. No. 143,047; May 24; v. 286; p. 847.
- Flour, Cake-. Levering Coffee Company. No. 143,388; May 31; v. 286; p. 1050.
- Flour, Corn-. Warner Moore & Co. No. 143,403; May 31; v. 288; p. 1051.
- Flour, dairy rations, stock feed, Wheat-. Merrill & Mayo Co. No. 149,322; Dec. 6.
- Flour, Diabetic. Curdloac Food Co. No. 145,646; Aug. 16; v. 289; p. 592.
- Flour, Hard and soft wheat. A. J. McClay. No. 139,571; Feb. 8; v. 283; p. 352.
- Flour-improvers. Woodlands Limited. No. 138,886; Jan. 11; v. 282; p. 378.
- Flour, Kansas hard-wheat. Lindsborg Milling Elevator Co. No. 148,140; Nov. 8.
- Flour, Kansas hard-wheat patent-. E. O. Challenger. No. 148,797; Nov. 29.
- Flour, Mixed wheat and corn. Ismert-Hincke Milling Company. No. 149,961; Dec. 27.
- Flour, Pancake-. Black Brothers. Flour Company. No. 139,489; Feb. 8; v. 283; p. 349.
- Flour, Pancake-. Pillsbury Flour Mills Company. No. 146,933; Sept. 20; v. 290; p. 642.
- Flour, Pancake-. B. G. Smyth Co. No. 145,815; Aug. 16; v. 289; p. 598.
- Flour, Pancake-. Sperry Flour Company. No. 139,398; Feb. 1; v. 283; p. 172.
- Flour, Pastry-. Dayton Milling Company. No. 148,812; Nov. 29.
- Flour, Prepared cake-. Hecker Cereal Company. No. 143,639; June 7; v. 287; p. 184.
- Flour, Prepared cake-. Sunset Food Products Co. No. 145,468; Aug. 2; v. 289; p. 182.
- Flour, Ready-mixed cake-. Jiffo Co. No. 146,267; Sept. 6; v. 290; p. 200.
- Flour, Rye-. George Urban Milling Company. No. 140,045; Mar. 1; v. 284; p. 177.
- Flour, Rye-. Ladish Milling Co. No. 140,415; Mar. 15; v. 284; p. 582.
- Flour, Rye and wheat. Pillsbury Flour Mills Company. No. 139,610; Feb. 8; v. 283; p. 353.
- Flour, rye, white and yellow cornmeals, Whole-wheat, Graham, and rye. M. R. Boetger. No. 141,494; Apr. 26; v. 285; p. 777.
- Flour, Self-rising. J. Allen Smith & Co. No. 141,228; Apr. 12; v. 285; p. 384.
- Flour, Self-rising. Cape County Milling Company. No. 145,331; Aug. 2; v. 289; p. 178.
- Flour, Self-rising. Colton Brothers Company. No. 140,779; Mar. 29; v. 284; p. 942.
- Flour, Self-rising. Midland Flour Milling Company. Nos. 142,303-5; May 10; v. 286; p. 405.
- Flour, Self-rising pancake-. Coger, Tucker and Cheney. No. 146,073; Aug. 30; v. 289; p. 1013.
- Flour, Self-rising wheat-. J. Allen Smith & Co. No. 146,002; Aug. 23; v. 289; p. 689.
- Flour, Self-rising wheat-. Amendt Milling Co. No. 140,729; Mar. 29; v. 284; p. 941.
- Flour, Spring-wheat. E. O. Challenger. No. 139,506; Feb. 8; v. 283; p. 350.
- Flour, Self-rising wheat-. Charleston Milling Company. No. 142,488; May 17; v. 286; p. 625.
- Flour, Self-rising wheat-. City Mills Company. No. 149,651; Dec. 20.
- Flour, Self-rising wheat-. Colorado Milling & Elevator Company. No. 145,063; July 26; v. 288; p. 812.



## Alphabetical list of trade-marks—Continued.

- Flour, Self-rising wheat. J. C. Lysle Milling Company. No. 146,287; Sept. 6; v. 290; p. 201.
- Flour, Self-rising wheat. Nashville Roller Mills. No. 142,061; May 3; v. 286; p. 188.
- Flour, Self-rising wheat. Portland Flouring Mills Co. No. 146,125; Aug. 30; v. 289; p. 1015.
- Flour, Self-rising wheat. Schoening-Koenigsmark Milling Co. No. 144,532; July 3; v. 288; p. 139.
- Flour, Self-rising wheat. Schoening-Koenigsmark Milling Co. No. 147,159; Oct. 4.
- Flour, Self-rising wheat. Schoening-Koenigsmark Milling Co. No. 147,681; Oct. 25.
- Flour, Self-rising wheat. Southern Illinois Milling & Elevator Co. No. 143,477; May 31; v. 286; p. 1053.
- Flour, Wheat. M. Ains & Sons. No. 146,155; Sept. 6; v. 290; p. 197.
- Flour, Wheat. Amendt Milling Company. No. 142,915; May 24; v. 286; p. 843.
- Flour, Wheat. American Hominy Company. No. 142,916; May 24; v. 286; p. 843.
- Flour, Wheat. American Levant Syndicate. No. 147,903; Nov. 8.
- Flour, Wheat. H. J. Arnold. No. 141,846; May 3; v. 286; p. 181.
- Flour, Wheat. Ballard & Ballard Company. No. 148,992; Dec. 6.
- Flour, Wheat. Bay City Milling Co. No. 138,575; Jan. 4; v. 282; p. 185.
- Flour, Wheat. Bech Van Sieten & Co. No. 143,169; May 24; v. 286; p. 851.
- Flour, Wheat. Bech Van Sieten & Co. No. 147,710; Oct. 25.
- Flour, Wheat. Bennett Milling Company. No. 140,751; Mar. 29; v. 284; p. 942.
- Flour, Wheat. Bennett Milling Co. No. 142,238; May 10; v. 286; p. 403.
- Flour, Wheat. Bernet, Craft & Kauffman Milling Company. No. 143,553; June 7; v. 287; p. 181.
- Flour, Wheat. Bernet, Craft & Kauffman Milling Co. No. 144,548; July 12; v. 288; p. 423.
- Flour, Wheat. Blair Milling Co. No. 139,064; Jan. 18; v. 282; p. 557.
- Flour, Wheat. Blair Milling Co. No. 145,497; Aug. 2; v. 289; p. 183.
- Flour, Wheat. W. J. Cahill Company. No. 148,638; Nov. 22.
- Flour, Wheat. Cannon Valley Milling Company. No. 140,699; Mar. 22; v. 284; p. 749.
- Flour, Wheat. Cape County Milling Company. Nos. 138,782-3; Jan. 11; v. 282; p. 375.
- Flour, Wheat. Cape County Milling Company. No. 141,509; Apr. 26; v. 285; p. 778.
- Flour, Wheat. Centennial Mill Company of Tenn. No. 140,769; Mar. 29; v. 284; p. 942.
- Flour, Wheat. Centennial Mill Company. No. 141,512; Apr. 26; v. 285; p. 778.
- Flour, Wheat. Cisneros & Co. No. 142,249; May 10; v. 286; p. 403.
- Flour, Wheat. Cisneros & Co. Inc. Nos. 142,961-4; May 24; v. 286; p. 844.
- Flour, Wheat. Cisneros & Co. No. 147,960; Nov. 8.
- Flour, Wheat. Clyde Milling & Elevator Co. No. 145,330; Aug. 2; v. 289; p. 178.
- Flour, Wheat. H. C. Cole Milling Co. No. 149,362; Dec. 13.
- Flour, Wheat. Collins Flour Mills. No. 141,522; Apr. 26; v. 285; p. 778.
- Flour, Wheat. Colorado Milling & Elevator Company. No. 145,636; Aug. 16; v. 289; p. 592.
- Flour, Wheat. Colorado Milling & Elevator Company. No. 146,203; Sept. 6; v. 290; p. 198.
- Flour, Wheat. Commercial Union of America. No. 144,732; July 19; v. 288; p. 616.
- Flour, Wheat. Commercial Union of America. Nos. 147,572-3; Oct. 25.
- Flour, Wheat. Commercial Union of America. No. 148,644; Nov. 22.
- Flour, Wheat. Dan Valley Mills. Nos. 138,604-5; Jan. 4; v. 282; p. 186.
- Flour, Wheat. Dulle-Meyer Milling Company. No. 143,798; June 7; v. 287; p. 190.
- Flour, Wheat. Eagle Roller Mill Co. No. 139,523; Feb. 3; v. 283; p. 350.
- Flour, Wheat. Eagle Roller Mill Co. No. 140,113; Mar. 8; v. 284; p. 364.
- Flour, Wheat. Eagle Roller Mill Co. No. 145,969; Aug. 23; v. 289; p. 788.
- Flour, Wheat. Earle-McGavock Milling Co. No. 139,524; Feb. 8; v. 283; p. 350.
- Flour, Wheat. Earle-McGavock Milling Company. No. 142,599; May 17; v. 286; p. 629.
- Flour, Wheat. Earle-McGavock Milling Company. No. 142,993; May 24; v. 286; p. 845.
- Flour, Wheat. El Reno Mill & Elevator Co. No. 139,072; Jan. 18; v. 282; p. 558.
- Flour, Wheat. El Reno Mill & Elevator Co. No. 143,687; June 7; v. 287; p. 185.
- Flour, Wheat. C. Fleker & Co. No. 142,526; May 17; v. 286; p. 626.
- Flour, Wheat. Fisher Flouring Mills Company. No. 144,765; July 19; v. 288; p. 617.
- Flour, Wheat. Fisher Flouring Mills Company. No. 145,665; Aug. 16; v. 289; p. 593.
- Flour, Wheat. Fisher Flouring Mills Company. No. 146,225; Sept. 6; v. 290; p. 199.
- Flour, Wheat. Fisher Flouring Mills Company. No. 148,406; Nov. 15.
- Flour, Wheat. Ford Flour Company. No. 143,005; May 24; v. 286; p. 846.
- Flour, Wheat. Gallatin Valley Milling Company. Nos. 148,034-42; Nov. 8.
- Flour, Wheat. Gallatin Valley Milling Company. No. 148,654; Nov. 22.
- Flour, Wheat. A. Gastun & Company. No. 149,385; Dec. 13.
- Flour, Wheat. George Urban Milling Company. No. 143,501; May 31; v. 286; p. 1054.
- Flour, Wheat. George Urban Milling Company. No. 144,959; July 19; v. 288; p. 623.
- Flour, Wheat. Gladney Milling Company. Nos. 143,017-20; May 24; v. 286; p. 846.
- Flour, Wheat. Gordonville Milling Company. No. 141,361; Apr. 19; v. 285; p. 566.
- Flour, Wheat. Gordonville Milling Company. No. 141,755; Apr. 26; v. 285; p. 788.
- Flour, Wheat. Great West Mill & Elevator Co. Nos. 148,421-2; Nov. 15.
- Flour, Wheat. Great West Mill & Elevator Co. Nos. 149,393-5; Dec. 13.
- Flour, Wheat. Hannibal Milling Co. No. 145,376; Aug. 2; v. 289; p. 179.
- Flour, Wheat. E. C. Hawkins. No. 149,101; Dec. 6.
- Flour, Wheat. Heid Bros. No. 143,640; June 7; v. 287; p. 181.
- Flour, Wheat. S. W. Hershey. No. 148,433; Nov. 15.
- Flour, Wheat. Holland O'Neal Milling Co. No. 143,045; May 24; v. 286; p. 847.
- Flour, Wheat. Holt & Company. No. 139,719; Feb. 15; v. 283; p. 541.
- Flour, Wheat. Hoyland Flour Mills Company. No. 140,837; Mar. 29; v. 284; p. 944.
- Flour, Wheat. International Milling Company. No. 149,413; Dec. 13.
- Flour, Wheat. Interprovincial Flour Mills. Nos. 144,810-11; July 19; v. 288; p. 619.
- Flour, Wheat. Ismert-Hincke Milling Company. No. 142,585; May 17; v. 286; p. 628.
- Flour, Wheat. Ismert-Hincke Milling Company. No. 145,383; Aug. 2; v. 289; p. 179.
- Flour, Wheat. Ismert-Hincke Milling Company, The. Nos. 145,384-8; Aug. 2; v. 289; p. 179.
- Flour, Wheat. Ismert-Hincke Milling Company. No. 146,262; Sept. 6; v. 290; p. 200.
- Flour, Wheat. Kansas Flour Mills Company. No. 143,712; June 7; v. 287; p. 186.
- Flour, Wheat. Krow & Neumann. No. 140,865; Mar. 29; v. 284; p. 945.
- Flour, Wheat. Ladish Milling Co. No. 140,001; Mar. 1; v. 284; p. 174.
- Flour, Wheat. Ladish Milling Co. No. 140,416; Mar. 15; v. 284; p. 582.
- Flour, Wheat. Lake of the Woods Milling Company. No. 139,563; Feb. 8; v. 283; p. 351.
- Flour, Wheat. Lake of the Woods Milling Co. Nos. 140,867-8; Mar. 29; v. 284; p. 945.
- Flour, Wheat. The Larabee Flour Mills Corporation. No. 139,566; Feb. 8; v. 283; p. 352.
- Flour, Wheat. Larabee Flour Mills Corporation. No. 141,591; Apr. 26; v. 285; p. 781.
- Flour, Wheat. Larabee Flour Mills Corporation. No. 142,003; May 3; v. 286; p. 186.
- Flour, Wheat. Larabee Flour Mills Corporation. No. 142,215; May 3; v. 286; p. 192.
- Flour, Wheat. Liberty Mills. No. 143,671; June 7; v. 287; p. 185.
- Flour, Wheat. Lindsborg-Milling & Elevator Co. No. 142,882; May 17; v. 286; p. 640.
- Flour, Wheat. Luehrmann Hay & Grain Co. No. 145,734; Aug. 16; v. 289; p. 595.
- Flour, Wheat. Lyon & Greenleaf Co. No. 148,592; Nov. 15.
- Flour, Wheat. W. H. Mann. No. 143,395; May 31; v. 286; p. 1050.
- Flour, Wheat. Martens & Ketels Milling Co. No. 145,147; July 26; v. 288; p. 815.
- Flour, Wheat. Middle States Milling Company. No. 140,892; Mar. 29; v. 284; p. 946.
- Flour, Wheat. Middle States Milling Company. No. 141,171; Apr. 12; v. 285; p. 382.
- Flour, Wheat. Middle States Milling Company. No. 142,302; May 10; v. 286; p. 405.
- Flour, Wheat. Middle States Milling Company. No. 143,399; May 31; v. 286; p. 1051.
- Flour, Wheat. Midland Cereal Products Co. No. 141,611; Apr. 26; v. 285; p. 781.
- Flour, Wheat. Miessenhelder Bros. No. 142,041; May 3; v. 286; p. 188.
- Flour, Wheat. Millers Milling Company. No. 141,612; Apr. 26; v. 285; p. 781.
- Flour, Wheat. Moreland-Jones Company. No. 142,624; May 17; v. 286; p. 629.
- Flour, Wheat. Moundridge Milling Co. No. 146,820; Sept. 20; v. 290; p. 636.



- Flour, Wheat. Nashville Roller Mills. No. 143,691; June 7; v. 287; p. 186.
- Flour, Wheat. Nebraska Consolidated Mills Company. No. 147,655; Oct. 25.
- Flour, Wheat. Piedmont Mills. No. 145,993; Aug. 23; v. 289; p. 789.
- Flour, Wheat. Pillsbury Flour Mills Company. Nos. 139,742-5; Feb. 15; v. 283; p. 544.
- Flour, Wheat. Pillsbury Flour Mills Company. No. 143,430; May 31; v. 286; p. 1052.
- Flour, Wheat. Pillsbury Flour Mills Company. No. 146,550; Sept. 6; v. 290; p. 220.
- Flour, Wheat. R. C. Poage Milling Co. No. 142,094; May 3; v. 286; p. 189.
- Flour, Wheat. Poage-Wall Milling Company. No. 148,510; Nov. 15.
- Flour, Wheat. Red Star Milling Company. No. 140,947; Mar. 29; v. 284; p. 948.
- Flour, Wheat. Red Star Milling Company. No. 142,101; May 3; v. 286; p. 189.
- Flour, Wheat. Red Star Milling Company. No. 142,322; May 10; v. 286; p. 405.
- Flour, Wheat. Red Star Milling Company. No. 149,210; Dec. 6.
- Flour, Wheat. Richland Milling Company. No. 146,853; Sept. 20; v. 290; p. 637.
- Flour, Wheat. B. L. Robertson. No. 144,531; July 5; v. 288; p. 199.
- Flour, Wheat. J. Rosenstein. No. 144,915; July 19; v. 288; p. 622.
- Flour, Wheat. Round Hill Milling Company. No. 142,736; May 17; v. 286; p. 633.
- Flour, Wheat. Samuel Bell & Sons. No. 146,176; Sept. 6; v. 290; p. 197.
- Flour, Wheat. Southwestern Milling Company. No. 146,142; Aug. 30; v. 289; p. 1015.
- Flour, Wheat. Southwestern Milling Company. No. 148,771; Nov. 22.
- Flour, Wheat. Sparks Milling Company. No. 147,037; Sept. 27; v. 290; p. 806.
- Flour, Wheat. Stafford Flour Mills Co. No. 147,445; Oct. 11.
- Flour, Wheat. Stafford Flour Mills Co. No. 149,246; Dec. 6.
- Flour, Wheat. Standard Milling Company of New York. No. 144,283; June 28; v. 287; p. 777.
- Flour, Wheat. Standard Tilton Milling Co. No. 142,776; May 17; v. 286; p. 634.
- Flour, Wheat. Tacoma Grain Company. No. 138,719; Jan. 4; v. 282; p. 189.
- Flour, Wheat. W. P. Tanner-Gross & Company. No. 139,644; Feb. 8; v. 283; p. 354.
- Flour, Wheat. W. P. Tanner-Gross & Company. Nos. 144,672-3; July 12; v. 288; p. 429.
- Flour, Wheat. Texas Star Flour Mills. Nos. 147,175-6; Oct. 4.
- Flour, Wheat. Texas Star Flour Mills. No. 148,717; No. 22.
- Flour, Wheat. Theopold-Rein Co. No. 143,195; May 24; v. 286; p. 852.
- Flour, Wheat. Trenton Milling Company. No. 139,649; Feb. 8; v. 283; p. 354.
- Flour, Wheat. Trenton Milling Company. No. 143,200; May 24; v. 286; p. 852.
- Flour, Wheat. Trenton Milling Company. No. 144,642; July 12; v. 288; p. 426.
- Flour, Wheat. Vollmer Warehouse & Milling Co. No. 144,646; July 12; v. 288; p. 426.
- Flour, Wheat. Washburn-Crosby Company. No. 138,736; Jan. 4; v. 282; p. 190.
- Flour, Wheat. Washburn-Crosby Company. No. 148,302; Nov. 8.
- Flour, Wheat. Washington Grain & Milling Co. No. 143,767; June 7; v. 287; p. 188.
- Flour, Wheat. Weber Flour Mills Corporation. No. 149,541; Dec. 13.
- Flour, Wheat. Wells Flour Milling Company. No. 150,166; Dec. 27.
- Flour, Wheat. Wenatchee Milling Co. No. 142,904; May 17; v. 286; p. 642.
- Flour, Wheat. Wichita Mill & Elevator Company. No. 141,063; Apr. 5; v. 285; p. 187.
- Flour, Wheat. Wichita Mills and Elevator Company. No. 144,975; July 19; v. 288; p. 624.
- Flour, Wheat. Wichita Flour Mills Co. Nos. 149,549-50; Dec. 13.
- Flour, Wheat. Wichita Flour Mills Co. No. 150,174; Dec. 27.
- Flour, Wheat. Wilkins-Rogers Milling Company. No. 141,017; Mar. 29; v. 284; p. 950.
- Flour, Wheat. Willis Norton & Co. No. 142,310; May 10; v. 286; p. 405.
- Flour, wheat Graham, pancake-flour, and cornmeal, Wheat. Fairbury Mill & Elevator Co. No. 143,600; June 7; v. 287; p. 183.
- Flours, cornmeal, and chicken feed. Ismert-Hincke Milling Company. No. 141,981; May 3; v. 286; p. 186.
- Flours, cornmeal, brans, &c. Globe Grain & Milling Co. No. 145,100; July 26; v. 288; p. 813.
- Flours, cornmeal, health-bran, Wheat, &c. Great Western Milling Company. No. 145,957; Aug. 23; v. 289; p. 788.
- Flours, Grams, cornmeal, Choice bran. O. A. Beam & Son. No. 145,319; Aug. 2; v. 289; p. 177.
- Flours, meal, health-bran, feeds. Great Western Milling Company. No. 145,266; July 26; v. 288; p. 822.
- Flours, Prepared biscuit, &c. C. F. Blanke Sales Company. No. 148,791; Nov. 29.
- Flours, Self-rising wheat and wheat. Midland Flour Milling Co. No. 146,293; Sept. 6; v. 290; p. 201.
- Flower-bulbs, seeds. Muller-Sealey Company. No. 144,012; June 21; v. 287; p. 581.
- Flower-extraction products. Ungerer & Company. No. 138,883; Jan. 11; v. 282; p. 378.
- Flowers, Artificial. R. J. Munn & Bros. No. 144,037; June 21; v. 287; p. 582.
- Flowers, Natural. United Confectioners. No. 140,455; Mar. 15; v. 284; p. 583.
- Flue-linings. Malleable Iron Range Company. No. 146,807; Sept. 20; v. 290; p. 635.
- Fluid, Antichattering. N. T. Foster. No. 147,313; Oct. 11.
- Fluid for removing spots, &c. C. E. Rennekar. No. 144,265; June 28; v. 287; p. 776.
- Fluid-pressure gages. Precision Instrument Company. Nos. 144,028-31; June 21; v. 287; p. 581.
- Fluids, Engine-starting. Hall-Thompson Company. No. 149,095; Dec. 6.
- Fluxes. Oxweld Acetylene Company. No. 139,595; Feb. 8; v. 283; p. 352.
- Fluxes, Mineral. Cleveland Flux Company. No. 146,072; Aug. 30; v. 289; p. 1013.
- Fly-books and smelled-fish-hook books. L. D. Chapman. No. 142,675; May 17; v. 286; p. 631.
- Fly, insect, and germ destroyer. H. J. Smith. No. 147,169; Oct. 4.
- Fly-killers and flycatchers. A. E. Rochfort. No. 146,600; Sept. 13; v. 290; p. 422.
- Fly papers, traps, and catchers of all kinds. National Fly Catcher Company. No. 142,633; May 17; v. 286; p. 630.
- Foil, plates, &c., made of aluminium. Aluminium-Walzerwerke A.-G. No. 140,728; Mar. 29; v. 284; p. 941.
- Folders, binders, and guides. Murdy Co. No. 140,906; Mar. 29; v. 284; p. 946.
- Folding, wrapping, addressing, mailing machines, &c. Speedautomatic Company. No. 144,061; Jan. 21; v. 287; p. 582.
- Fonts and feed-hoppers, Stock and poultry. J. Q. Clarke Tank Co. No. 140,348; Mar. 15; v. 284; p. 580.
- Food. Prunella Health Food Company. No. 149,205; Dec. 6.
- Food and fermented milk preparation, Predigested. J. Melicow. No. 145,149; July 26; v. 288; p. 815.
- Food and food ingredients. A. Engelhard & Sons Company. No. 146,732; Sept. 20; v. 290; p. 633.
- Food and food ingredient, Wheat breakfast. Franklin MacVeagh & Company. No. 145,137; July 26; v. 288; p. 814.
- Food, Breakfast. Breakfast Brownies Company. No. 139,493; Feb. 8; v. 283; p. 349.
- Food, Breakfast. Fruited Cereal Company. No. 141,941; May 3; v. 286; p. 184.
- Food, Breakfast. Joy Food Products Co. No. 141,394; Apr. 19; v. 285; p. 567.
- Food, Breakfast. Marshall Canning Co. No. 142,216; May 3; v. 286; p. 192.
- Food, Cereal breakfast. Marshall Canning Co. No. 146,931; Sept. 20; v. 290; p. 642.
- Food, Certain. United States and South America Corporation. No. 147,708; Oct. 25.
- Food, Certain articles of. Helpy Selfy. No. 147,686; Oct. 25.
- Food-colors. National Aniline & Chemical Company. No. 139,013; Jan. 18; v. 282; p. 555.
- Food-colors. National Aniline & Chemical Company. No. 143,107; May 24; v. 286; p. 849.
- Food composition. Virocacao Company. No. 141,001; Mar. 29; v. 284; p. 949.
- Food for poultry. Neil Brothers Grain Co. No. 143,112; May 24; v. 286; p. 849.
- Food for poultry, chickens, horses, and mules. Pease & Dwyer Co. No. 146,327; Sept. 6; v. 290; p. 202.
- Food for stock. Great Western Milling Company. No. 143,627; June 7; v. 287; p. 184.
- Food in granulated form, Tonic. A. Peyroux & Cie. No. 145,437; Aug. 2; v. 289; p. 181.
- Food ingredient to be mixed with flour. Campbell Baking Company. No. 146,962; Sept. 27; v. 290; p. 803.
- Food, Plant. American Florist Soil Co. No. 149,561; Dec. 13.
- Food, Poultry. Brooks Co. No. 139,673; Feb. 8; v. 283; p. 356.
- Food, Poultry. Brown Company. No. 145,326; Aug. 2; v. 289; p. 177.
- Food, Poultry. H. D. Linker. No. 145,727; Aug. 16; v. 289; p. 595.
- Food, Prepared cereal breakfast. E. Berliner. No. 145,537; Aug. 9; v. 289; p. 407.
- Food product, Casein. Dry Milk Company. No. 145,077; July 26; v. 288; p. 812.
- Food products. Emery Food Co. No. 139,529; Feb. 8; v. 283; p. 350.
- Food products, Palmer, Harvey & Co. No. 140,922; Mar. 29; v. 284; p. 947.



*Alphabetical list of trade-marks—Continued.*

- Food products. Tomatina Alimentary Paste Co. No. 139,412; Feb. 1; v. 283; p. 172.
- Food products, Machines for operating on. Cleveland Electric Machine & Mfg. Co. No. 140,264; Mar. 8; v. 284; p. 370.
- Food, Stock. J. E. Bartlett Company. No. 139,245; Feb. 1; v. 283; p. 167.
- Food, Stock. R. W. Davis & Company. No. 143,796; June 7; v. 287; p. 190.
- Food, Stock. Oswego Milling Company. Nos. 138,687-8; Jan. 4; v. 282; p. 189.
- Food, Stock and poultry. Goodenuff Milling & Feed Co. No. 145,677; Aug. 16; v. 289; p. 593.
- Food, Stock and poultry. Goodenuff Milling & Feed Co. No. 146,101; Aug. 30; v. 289; p. 1014.
- Food, Stock and poultry. J. J. Schreiber. No. 146,351; Sept. 6; v. 290; p. 203.
- Foods. Allied Packers. No. 138,562; Jan. 4; v. 282; p. 185.
- Foods. American Factors. No. 142,410; May 17; v. 286; p. 623.
- Foods. American Stores Company. No. 141,477; Apr. 26; v. 285; p. 777.
- Foods. Basket Stores Co. No. 139,707; Feb. 15; v. 283; p. 541.
- Foods. Bon I. Look Stores Company. No. 141,495; Apr. 26; v. 285; p. 778.
- Foods. California Packing Corporation. No. 139,773; Feb. 22; v. 283; p. 751.
- Foods. California Packing Corporation. No. 141,507; Apr. 26; v. 285; p. 778.
- Foods. W. J. Dunklau. No. 139,520; Feb. 8; v. 283; p. 350.
- Foods. W. H. Dyer Company. No. 141,930; May 3; v. 286; p. 184.
- Foods. Fifty-Fifty Corporation. No. 139,533; Feb. 8; v. 283; p. 350.
- Foods. Great Atlantic and Pacific Tea Company. Nos. 140,393-4; Mar. 15; v. 284; p. 581.
- Foods. Great Atlantic and Pacific Tea Company. No. 146,237; Sept. 6; v. 290; p. 199.
- Foods. Guyer & Calkins Co. No. 143,630; June 7; v. 287; p. 184.
- Foods. Hygrade Provision Company. No. 142,579; May 17; v. 286; p. 628.
- Foods. N. Nigro. No. 142,071; May 3; v. 286; p. 189.
- Foods. New York Store Mercantile Company. No. 146,310; Sept. 6; v. 290; p. 201.
- Foods. Red Wing Company. No. 140,017; Mar. 1; v. 284; p. 174.
- Foods. Roblin-Demerath Co. No. 139,029; Jan. 18; v. 282; p. 556.
- Foods. Sanford Truck Growers, Inc. No. 142,119; May 3; v. 286; p. 190.
- Foods. Serve-Us Grocery Products Corporation. No. 139,626; Feb. 8; v. 283; p. 353.
- Foods. A. Silz. No. 138,863; Jan. 11; v. 282; p. 378.
- Foods. Strohmeier & Arpe Company. No. 139,640; Feb. 8; v. 283; p. 354.
- Foods. Tolerton & Warfield Co. No. 142,339; May 10; v. 286; p. 406.
- Foods. Wellman-Peck & Co. No. 144,970; July 19; v. 288; p. 624.
- Foods and ingredients of foods. Alton Mercantile Company. No. 144,505; July 5; v. 288; p. 197.
- Foods and ingredients of foods. Globe Grain & Milling Co. No. 146,100; Aug. 30; v. 289; p. 1014.
- Foods and ingredients of foods. Naamloose Vennootschap Oliefabrieken Insulinde. No. 140,013; Mar. 1; v. 284; p. 174.
- Foods and ingredients of foods. St. Albans Grain Company. No. 139,893; Feb. 22; v. 283; p. 755.
- Foods and ingredients of foods. Saul Magnus & Henry G Mosler. No. 149,443; Dec. 13.
- Foods. Cereal. A. M. de Servais. No. 145,315; Aug. 2; v. 289; p. 177.
- Foods. Cereal. Walton Milling Company. No. 145,476; Aug. 2; v. 289; p. 182.
- Foods. Cereal breakfast. Kellogg Toasted Corn Flake Company. Nos. 147,454-5; Oct. 18.
- Foods. Cereal breakfast. United Cereal Mills. No. 148,286; Nov. 8.
- Foods. Certain. Gannon Grocery Company. No. 147,487; Oct. 18.
- Foods. Certain. Sussman Wormser & Co. No. 145,491; Aug. 2; v. 289; p. 182.
- Foods. Certain. Twitchell-Champlin Company. No. 147,040; Sept. 27; v. 290; p. 806.
- Foods. Flaked cereal. Kellogg Toasted Corn Flake Co. No. 147,458; Oct. 18.
- Foods for horses, cattle, dogs, chickens, &c. Pratt Food Co. No. 141,799; Apr. 26; v. 285; p. 792.
- Foods for humans and animals. The Whitewater Flour Mills Company. No. 139,431; Feb. 1; v. 283; p. 173.
- Foods for infants, invalids, and convalescents. Lenitone Laboratories Company. No. 145,975; Aug. 23; v. 289; p. 788.
- Foods. Prepared stock. Capitol Products Company. No. 147,950; Nov. 8.
- Foodstuffs—namely, cake. Baer Baking Co. No. 145,318; Aug. 2; v. 289; p. 177.
- Foot appliances, Certain corrective. Wizard Foot Appliance Company. No. 149,553; Dec. 13.
- Foot-balls, Leather. Jordan Marsh Company. No. 148,874; Nov. 29.
- Foot-lotion. Pe-Do-Lo Chemical Company. No. 148,701; Nov. 22.
- Foot-powder. J. A. Ferko. No. 143,603; June 7; v. 287; p. 183.
- Foot-powder. T. E. Flint. No. 148,026; Nov. 8.
- Foot-powder. H. Miller. No. 147,131; Oct. 4.
- Foot-powder. Dr. T. Schondau. No. 145,998; Aug. 23; v. 289; p. 789.
- Foot-powder. M. Tanski. No. 148,279; Nov. 8.
- Footwear and leather. Composition for dressing, polishing, and cleaning. J. Fappiano. No. 147,309; Oct. 11.
- Footwear, Leather. Holland Shoe Co. No. 149,111; Dec. 6.
- Forgings and castings, Iron and steel. Chrome Steel Works. No. 147,282; Oct. 11.
- Forgings, Drop. Great Lakes Forge Company. No. 144,221; June 28; v. 287; p. 775.
- Forgings, Steel drop. Jefferson Forge Products Company. No. 149,682; Dec. 20.
- Forks, Paper. Sanitary Products Corporation of America. No. 142,746; May 17; v. 286; p. 633.
- Formaldehyde, &c. Compound of. William S. Merrell Company. No. 142,028; May 3; v. 286; p. 187.
- Fountain-pens, gold pen-points, pocket-clips, and lead-pencils. S. J. Meyerpen. No. 144,441; July 5; v. 288; p. 194.
- Fountains, Soda. Albert Pick & Company. No. 147,805; Nov. 1.
- Frames for teaching objectively. O. Herrmann. No. 138,971; Jan. 18; v. 282; p. 554.
- Friction-tape. Western Electric Company. No. 144,494; July 5; v. 288; p. 196.
- Friction-tape. Western Electric Company. No. 144,649; July 12; v. 288; p. 426.
- Frocks and costumes, Ladies'. J. Davis & Co. No. 142,493; May 17; v. 286; p. 626.
- Frogs, guard-rail clamps, rail-braces, ties. Weir Frog Company. No. 146,402; Sept. 6; v. 290; p. 204.
- Frostings for pastries. C. H. Valin. No. 149,276; Dec. 6.
- Fruit confection, Citrous. Taylor's. No. 143,756; June 7; v. 287; p. 188.
- Fruit emulsion, pastes, pie-fillers, &c. International Company. No. 143,649; June 7; v. 287; p. 184.
- Fruit fillings, mince-meat, &c. Goldmeyer, Thiel & Arnold. No. 143,622; June 7; v. 287; p. 184.
- Fruit, Fresh citrus. A. M. Klemm & Son. No. 138,829; Jan. 11; v. 282; p. 377.
- Fruit, Fresh citrus. L. W. Lee & Co. No. 143,665; June 7; v. 287; p. 185.
- Fruit, Fresh deciduous. Graham-Henshaw. No. 145,558; Aug. 9; v. 289; p. 407.
- Fruit, Fresh deciduous. Plummer & Edwin. No. 146,841; Sept. 20; v. 290; p. 636.
- Fruit-jars, Glass. Schram Glass Manufacturing Company. No. 149,612; Dec. 13.
- Fruit-juices. Twin City Extract Co. No. 138,725; Jan. 4; v. 282; p. 190.
- Fruit, Medicated. Boal's Rolls Corporation. No. 138,778; Jan. 11; v. 282; p. 375.
- Fruit, Medicated. Boal's Rolls Corporation. No. 139,120; Jan. 25; v. 282; p. 733.
- Fruit-pitting machine. Marshall Manufacturing Company. No. 142,613; May 17; v. 286; p. 629.
- Fruit preserves, jellies, jams, &c. L. F. Wakefield. No. 142,164; May 3; v. 286; p. 191.
- Fruit preserves, pickled vegetables, relishes, &c. Glaser, Crandell Co. No. 149,775; Dec. 20.
- Fruit punches, ginger-ale, root-beer, Non-alcoholic. S. Blackman. No. 138,583; Jan. 4; v. 282; p. 185.
- Fruits. Garcia & Maggini Co. No. 146,747; Sept. 20; v. 290; p. 633.
- Fruits and fresh deciduous fruits, Dried. Whitney, Summers & Swim. No. 138,742; Jan. 4; v. 282; p. 190.
- Fruits and fresh tomatoes, Fresh citrus. S. J. Sligh. No. 146,365; Sept. 6; v. 290; p. 203.
- Fruits and vegetables, Canned. California Growers Association. No. 144,555; July 12; v. 288; p. 423.
- Fruits and vegetables, Canned. Springville Canning Co. No. 139,957; Feb. 22; v. 283; p. 761.
- Fruits and vegetables, Fresh. Elliott Commission Company. No. 145,087; July 26; v. 288; p. 813.
- Fruits, Canned. C. Bryant. No. 144,553; July 12; v. 288; p. 423.
- Fruits, canned fruits and fish, Dried. A/S Det Almindelige Handelskompagni. No. 145,108; July 26; v. 288; p. 813.
- Fruits, citrus. J. Capehart. No. 143,568; June 7; v. 287; p. 182.
- Fruits, Crushed. Flalla & Eppler. No. 148,760; Nov. 22.
- Fruits, Dried. Guggenbime & Company. No. 141,132; Apr. 12; v. 285; p. 381.
- Fruits, Dried. Washington Growers Packing Corporation. No. 146,907; Sept. 20; v. 290; p. 638.
- Fruits, Dried and canned. O. A. Harlan & Co. No. 148,068; Nov. 8.
- Fruits, Evaporated. Bates & Abbott. No. 144,547; July 12; v. 288; p. 423.
- Fruits, flowers, rolled oats, clean, Dried. Holland Food Corporation. No. 144,799; July 19; v. 288; p. 618.
- Fruits, Fresh. L. G. Bachan. No. 141,484; Apr. 26; v. 285; p. 777.



- Fruits, Fresh. Cardwell & Waggoner. No. 141,885; May 3; v. 286; p. 183.
- Fruit, Fresh. Fowler Grape Growers Association. No. 141,551; Apr. 26; v. 285; p. 779.
- Fruits, Fresh citrus. Anaheim Citrus Fruit Association. No. 138,560; Jan. 4; v. 282; p. 185.
- Fruits, Fresh citrus. Anaheim Citrus Fruit Association. No. 146,679; Sept. 20; v. 290; p. 631.
- Fruits, Fresh citrus. C. H. Baker, Jr. No. 143,546; June 7; v. 287; p. 181.
- Fruits, Fresh citrus. Chase & Co. Nos. 146,440-1; Sept. 6; v. 290; p. 208.
- Fruits, Fresh citrus. Chester C. Fosgate Co. No. 147,602; Oct. 25.
- Fruits, Fresh citrus. Chester C. Fosgate Co. No. 148,030; Nov. 8.
- Fruits, Fresh citrus. Dade City Packing Co. No. 146,721; Sept. 20; v. 290; p. 632.
- Fruits, Fresh citrus. Homestead Growers' Assn. No. 139,940; Feb. 22; v. 283; p. 759.
- Fruits, Fresh citrus. House Brothers. No. 138,641; Jan. 4; v. 282; p. 187.
- Fruits, Fresh citrus. Kunz, Marsh & Pendleton. No. 138,987; Jan. 18; v. 282; p. 554.
- Fruits, Fresh citrus. Lake Hamilton Citrus Growers Association. No. 145,712; Aug. 16; v. 289; p. 594.
- Fruits, Fresh citrus. Lakeland Citrus Co. No. 145,129; July 26; v. 288; p. 814.
- Fruits, Fresh citrus. Leeco Citrus Growers Association. No. 142,667; May 17; v. 286; p. 631.
- Fruits, Fresh citrus. Nelson & Company. Nos. 143,113-14; May 24; v. 286; p. 849.
- Fruits, Fresh citrus. Nocatee Citrus Growers Association. No. 140,050; Mar. 1; v. 284; p. 177.
- Fruits, Fresh citrus. Nocatee Citrus Growers Association. No. 143,121; May 24; v. 286; p. 849.
- Fruits, Fresh citrus. Old Baldy Citrus Association. No. 138,685; Jan. 4; v. 282; p. 188.
- Fruits, Fresh citrus. Orlando Citrus Growers Association. No. 148,191; Nov. 8.
- Fruits, Fresh citrus. H. W. Peterson & Company. No. 142,705; May 17; v. 286; p. 632.
- Fruits, Fresh citrus. Redlands Heights Orchards. No. 143,723; June 7; v. 287; p. 187.
- Fruits, Fresh citrus. Sebring Citrus Growers Association. No. 149,500; Dec. 13.
- Fruits, Fresh citrus. J. L. Taylor Company. No. 144,949; July 19; v. 288; p. 623.
- Fruits, Fresh citrus. Whittier Citrus Association. No. 145,489; Aug. 2; v. 289; p. 182.
- Fruits, Fresh deciduous. Bear Creek Orchards. No. 144,343; July 5; v. 288; p. 191.
- Fruits, Fresh deciduous. L. E. Chong. No. 139,972; Mar. 1; v. 284; p. 173.
- Fruits, Fresh deciduous. C. Hitzl. No. 139,550; Feb. 8; v. 283; p. 351.
- Fruits, Fresh deciduous. Lloyd Garretson Co. No. 146,988; Sept. 27; v. 290; p. 804.
- Fruits, Fresh deciduous. C. C. Woodworth. No. 144,499; July 5; v. 288; p. 196.
- Fruits, Fresh deciduous and vinous. Atwater Fruit Exchange. No. 143,541; June 7; v. 287; p. 181.
- Fruits in their natural state, Citrus. W. Watt. No. 149,282; Dec. 6.
- Fruits, Jams, jellies, &c. Hawaiian Fruit Products Company. No. 146,105; Aug. 30; v. 289; p. 1014.
- Fruits—viz., oranges, grapefruit, pineapples, Fresh. Porto Rico Consolidated Fruit Company. No. 149,486; Dec. 13.
- Fuel-economizers. J. F. Kendall. No. 143,377; May 31; v. 286; p. 1050.
- Fuel-economizers. H. A. Koenig. No. 148,879; Nov. 29.
- Fuel improver, Gas-engine. A. Danville. No. 144,378; July 5; v. 288; p. 192.
- Fuel-intensifier and carbon-remover. Ultra-Gas Manufacturing Company. No. 144,077; June 21; v. 287; p. 583.
- Fuel intensifier, Liquid. Brauer & Kreidt. No. 138,985; Jan. 18; v. 282; p. 554.
- Fuel, Liquid. G. E. Gray. No. 139,311; Feb. 1; v. 283; p. 169.
- Fuel, Manufactured. E. L. Culver. No. 141,915; May 3; v. 286; p. 184.
- Fuel, Stable mobile. L. W. Bates. No. 148,788; Nov. 29.
- Fuel-vaporizers. G. C. Baker. No. 147,542; Oct. 25.
- Fungicides, insecticides, weed-destroyers. J. G. Lipman. No. 145,978; Aug. 23; v. 289; p. 788.
- Fullers' and fossil earths, crude tar. Thos. Hubback & Son. No. 148,442; Nov. 15.
- Fur coats, capes, sets, scarfs, &c. Carson Pirie Scott & Co. No. 145,580; Aug. 9; v. 289; p. 408.
- Fur, Dyed. A. Kosofsky. No. 143,065; May 24; v. 286; p. 847.
- Furs. Philip A. Singer & Bro. No. 142,332; May 10; v. 286; p. 406.
- Furfuramid chemical product as well as all its compounds. Société Ricard Allenet & Cie. No. 150,113; Dec. 27.
- Furnace burning coal, wood, or oil, Warm-air. P. C. De Vol Hardware Co. No. 138,608; Jan. 4; v. 282; p. 186.
- Furnaces. T. E. Henry Furnace Company. No. 139,718; Feb. 15; v. 283; p. 541.
- Furnaces and cooking-ranges, Warm-air, coal, wood, gas, and oil. Graff Furnace Co., The. Nos. 144,997-8; July 19; v. 288; p. 627.
- Furnaces and parts thereof, and associated devices, High-frequency electric. Ajax Electrothermic Corporation. No. 146,157; Sept. 6; v. 290; p. 197.
- Furnaces and ranges, Warm-air, coal, wood, gas, and oil. Graff Furnace Co. No. 148,057; Nov. 8.
- Furnaces, Coal, gas, and wood. Williamson Heater Company. No. 145,870; Aug. 16; v. 289; p. 599.
- Furnaces, Coal, wood, and gas. Homer Furnace Company. No. 143,249; May 24; v. 286; p. 856.
- Furnaces, evaporators, and parts thereof. Chattanooga Plow Company. No. 143,301; May 31; v. 286; p. 1048.
- Furnaces, heaters, and boilers equipped with fuel-economizers. A. J. La Fay. No. 146,582; Sept. 13; v. 290; p. 422.
- Furnaces, Hot-air. Robert Gordon, Incorporated. No. 147,611; Oct. 25.
- Furnaces, Ore and oil-shale roasting. American Continuous Retort Company. No. 148,977; Dec. 6.
- Furnaces, Refractory composition for use in. General Electric Company. No. 149,386; Dec. 13.
- Furnaces, Sheet-metal casings for coal, wood, and gas. Homer Furnace Company. No. 143,851; June 14; v. 287; p. 400.
- Furnaces, Warm-air. Mt. Vernon Furnace & Mfg. Co. No. 144,036; June 21; v. 582.
- Furnishings, Ladies'. Gotham Merchandise Company. No. 141,947; May 3; v. 286; p. 185.
- Furniture. Field-Parker Company. No. 142,527; May 17; v. 286; p. 626.
- Furniture. M. L. Nelson Furniture Co. No. 143,115; May 24; v. 286; p. 849.
- Furniture. G. A. Spies. No. 147,410; Oct. 11.
- Furniture and auto polish. A. M. Snyder. No. 149,515; Dec. 13.
- Furniture and automobile-body polish. W. H. Damon. No. 141,529; Apr. 26; v. 285; p. 779.
- Furniture and automobile polish. U. S. Mop Company. No. 146,152; Aug. 30; v. 289; p. 1016.
- Furniture and automobile polish. F. P. Smith. No. 144,939; July 19; v. 288; p. 623.
- Furniture and automobile polish. Wisconsin Compounding Company. No. 149,552; Dec. 13.
- Furniture and automobile polish, Liquid. Chin-Chin Chemical Company. No. 147,082; Oct. 4.
- Furniture and automobile polishes. Mirand Polish Company. No. 149,456; Dec. 13.
- Furniture and house-furnishing goods, &c. Wohlfarth & Koos Co. No. 148,318; Nov. 8.
- Furniture, automobile, and floor polish, floor-wax. Pensco Products Co. No. 146,330; Sept. 6; v. 290; p. 202.
- Furniture, automobile-body, &c., polish. Gem Hammock & Fly Net Company. No. 141,942; May 3; v. 286; p. 184.
- Furniture-casters. Faultless Caster Co. No. 144,117; June 21; v. 287; p. 587.
- Furniture, Certain articles of. General Fireproofing Co. No. 147,606; Oct. 25.
- Furniture, Certain articles of household. E. Guggenheim. No. 147,853; Nov. 1.
- Furniture, Certain household. Summerfield Company. No. 149,739; Dec. 20.
- Furniture-covers, table-scarfs, handkerchiefs. Priscilla Company. No. 144,032; June 21; v. 287; p. 581.
- Furniture, floor, and automobile polish or dressing. J. M. Ensign. No. 145,951; Aug. 23; v. 289; p. 787.
- Furniture, Household. Chamberlayne, Inc. No. 149,873; Dec. 27.
- Furniture-polish. F. Burgener. No. 147,449; Oct. 18.
- Furniture-polish. J. Burkey. No. 147,946; Nov. 8.
- Furniture-polish. Columbia Graphophone Company. No. 144,729; July 19; v. 288; p. 616.
- Furniture-polish. G. Fisher. No. 149,382; Dec. 13.
- Furniture-polish. L. E. Fregin. No. 140,595; Mar. 22; v. 284; p. 744.
- Furniture-polish. L. I. Gordon. No. 149,390; Dec. 13.
- Furniture-polish. Globe Grocery Stores. No. 143,350; May 31; v. 286; p. 1049.
- Furniture-polish. Grand Union Tea Co. No. 144,404; July 5; v. 288; p. 193.
- Furniture-polish. A. E. Kerr. No. 141,152; Apr. 12; v. 285; p. 381.
- Furniture-polish. J. J. Koetzner. No. 142,285; May 10; v. 286; p. 404.
- Furniture-polish. J. A. Parris. No. 139,183; Jan. 25; v. 282; p. 735.
- Furniture-polish. J. A. Parris. No. 139,599; Feb. 8; v. 283; p. 353.
- Furniture-polish. Rose Products Company. No. 139,621; Feb. 8; v. 283; p. 353.
- Furniture-polish. Tyler Chemical Company. No. 139,415; Feb. 1; v. 283; p. 172.
- Furniture, &c., Store. M. L. Himmel & Son. No. 146,036; Aug. 23; v. 289; p. 792.
- Fuse cut-outs, conduit-bushings, switch-boxes, &c. Multi Electrical Mfg. Company. No. 148,169; Nov. 8.
- Fuse-plug. Moss, Schury Manufacturing Company. No. 139,173; Jan. 25; v. 282; p. 735.
- Fuse-plugs, electric switches, cut-outs, &c. Trenton Electric & Conduit Company. No. 144,953; July 19; v. 288; p. 623.
- Fuses and cut-outs, Electric. Bussmann Manufacturing Company. No. 141,501; Apr. 26; v. 285; p. 778.



*Alphabetical list of trade-marks—Continued.*

- Fuses, Plug-. Whitman Electric Manufacturing Co. No. 144,650; July 12; v. 288; p. 426.
- Gage-glasses. W. H. Stuart. No. 142,336; May 10; v. 286; p. 406.
- Gages and micrometers. Certain. Greenfield Tap and Die Corporation. No. 147,318; Oct. 11.
- Gages, spectacles, goggles, Oxyacetylene-welding pressure-. Oxweld Acetylene Company. No. 139,365; Feb. 1; v. 283; p. 171.
- Gages, Thread-. Herrmann Gauge Co. No. 145,268; July 26; v. 288; p. 822.
- Gages, Water-. Sargent Company. No. 139,880; Feb. 22; v. 283; p. 755.
- Gaiters of fabric construction. William Greilich and Sons. No. 138,905; Jan. 11; v. 282; p. 380.
- Galactagogue preparations. Proto Chemical Co. No. 147,149; Oct. 4.
- Game. J. B. Abele. No. 142,400; May 17; v. 286; p. 623.
- Game apparatus. T. R. Baldwin. No. 142,442; May 17; v. 286; p. 624.
- Game apparatus. B. M. Hutchison. No. 149,408; Dec. 13.
- Game apparatus, Horse-racing amusement. L. A. Eliman. No. 149,044; Dec. 6.
- Game, Board. Haines & Parsons. No. 144,223; June 28; v. 287; p. 775.
- Game-board. A. L. Landis. No. 142,665; May 17; v. 286; p. 631.
- Game, Board. S. B. Reeder. No. 142,102; May 3; v. 286; p. 190.
- Game-board, game-indicator, game-counter, &c. E. Bruder. No. 149,644; Dec. 20.
- Game-board, game-indicator, game-counter, &c. E. Bruder. Nos. 149,855-6; Dec. 27.
- Game-board, Military. A. Frankenstein. No. 146,743; Sept. 20; v. 290; p. 633.
- Game-boards and pieces therefor. G. H. Parker. No. 142,700; May 17; v. 286; p. 632.
- Game, Card. D. M. Gottfried. No. 146,468; Sept. 6; v. 290; p. 211.
- Game, Guessing. Porter Chemical Company. No. 142,718; May 17; v. 286; p. 632.
- Game, Paper-cut-out. Porter Chemical Company. No. 149,204; Dec. 6.
- Game, Parlor. W. S. Loring. No. 115,402; Aug. 2; v. 289; p. 180.
- Games, Parlor baseball. W. J. Ennison. No. 148,827; Nov. 29.
- Game, Table. G. O. Woods. No. 149,556; Dec. 13.
- Game, War. E. J. Daley, Jr. No. 144,376; July 5; v. 288; p. 192.
- Games. W. J. Tonkin. No. 142,842; May 17; v. 286; p. 636.
- Games and toys. Toy Tinkers. No. 144,484; July 5; v. 288; p. 195.
- Games, Board or table. J. L. Devlin. No. 142,501; May 17; v. 286; p. 626.
- Games, Card. C. J. Dorsey. No. 142,505; May 17; v. 286; p. 626.
- Games, Horseshoe. Wayne Paper Goods Company. No. 149,283; Dec. 6.
- Games, Perforated-disk-throwing. Sky Roll Company. No. 148,924; Nov. 29.
- Games, toys, and fancy goods. Simmons Hardware Company. No. 142,131; May 3; v. 286; p. 190.
- Garages and houses, Sectional. C. H. Webber. No. 149,806; Dec. 20.
- Garbage-cans. Sargoy Brothers. No. 140,205; Mar. 8; v. 284; p. 367.
- Garbage-receivers. Certain. Edwin A. Jackson & Bro. No. 149,122; Dec. 6.
- Garbage-receptacles. Concrete. Sanitary Garbage Box Company. No. 139,381; Feb. 1; v. 283; p. 171.
- Garden implements, Certain hand. American Fork & Hoe Company. No. 149,752; Dec. 20.
- Gargle and nasal spray. San Antonio Drug Co. No. 147,028; Sept. 27; v. 290; p. 805.
- Gargle, mouth-wash, and nasal spray. San Antonio Drug Co. No. 148,737; Nov. 22.
- Gargle, Throat-. J. Gentee. No. 146,464; Sept. 6; v. 290; p. 211.
- Garment-fasteners, needles, pins. Waldes & Co. No. 148,304; Nov. 8.
- Garment-fastening device. Certain. Puritan Mfg. Co. No. 148,728; Nov. 22.
- Garment for children, Outer cover-all. F. W. MacKay. No. 149,152; Dec. 6.
- Garment-hangers. Brager Bros. No. 149,851; Dec. 27.
- Garment-hangers, fly traps and swatters, and rat-traps, &c. Wickwire Spencer Steel Corporation. No. 147,831; Nov. 1.
- Garments, Boys' outer. Sheahan, Kohn & Co. No. 140,966; Mar. 29; v. 284; p. 948.
- Garments, Child's. L. E. Freeman. No. 141,359; Apr. 19; v. 285; p. 566.
- Garments for women and children. Stauber Manufacturing Co. No. 148,742; Nov. 22.
- Garments, Infants' sleeping. Merit Baby Wear Company. No. 150,005; Dec. 27.
- Garments, Ladies' outer. Peck & Co. No. 142,084; May 3; v. 286; p. 189.
- Garments, Men's and boys' work-. Triangle Overall Company. No. 140,232; Mar. 8; v. 284; p. 368.
- Garments, Men's and children's outer. Cohen, Goldman & Co. No. 145,632; Aug. 16; v. 289; p. 592.
- Garments, One-piece work-. Carson Pirie Scott & Co. No. 143,238; May 24; v. 286; p. 855.
- Garments, Sleeping. E-Z Waist Company. No. 148,401; Nov. 15.
- Garments, Sleeping. Oppenheim, Oberndorf & Co. Nos. 143,702-3; June 7; v. 287; p. 186.
- Garments, Women's, misses', junior, and children's. Harry Kitzinger & Co. No. 142,678; May 17; v. 286; p. 631.
- Garters. Crescent Garter Co. No. 143,308; May 31; v. 286; p. 1048.
- Garters. Harris Suspender Company. No. 138,638; Jan. 4; v. 282; p. 187.
- Garters. C. F. Hausen. No. 143,360; May 31; v. 286; p. 1049.
- Garters. President Suspender Company. No. 140,294; Mar. 8; v. 284; p. 373.
- Garters. A. Stein & Company. No. 147,696; Oct. 25.
- Garters. D. M. Wirth. No. 139,436; Feb. 1; v. 283; p. 173.
- Garters and hose-supporters. Ivy Corset Company. No. 147,781; Nov. 1.
- Garters and hose-supporters. Russell Manufacturing Company. No. 141,650; Apr. 26; v. 285; p. 782.
- Garters and hose-supporters. A. Stein & Company. No. 139,402; Feb. 1; v. 283; p. 172.
- Garters, armbands, and children's hose-supporters. Sturm & Scheinberg. No. 138,715; Jan. 4; v. 282; p. 189.
- Garters, armbands, suspenders. S. Rubin. No. 147,462; Oct. 18.
- Garter's, Men's. J. Press. No. 149,326; Dec. 6.
- Gas-black and carbon-black. Binney & Smith Company. No. 147,072; Oct. 4.
- Gas-intake deflectors and gaskets, Combination-. M. B. Eaton. No. 149,909; Dec. 27.
- Gas, Natural. J. C. Whitfield. No. 140,466; Mar. 15; v. 284; p. 583.
- Gas, Natural. J. C. Whitfield. No. 150,172; Dec. 27.
- Gas-producers, valves, furnaces, and metal-mixers. Wellman-Seaver-Morgan Company. No. 141,014; Mar. 29; v. 284; p. 950.
- Gas water-heaters. Bastain-Morley Co. No. 146,634; Sept. 13; v. 290; p. 425.
- Gaskets. Carter Carburetor Company. No. 145,622; Aug. 16; v. 289; p. 592.
- Gaskets. McCord Manufacturing Company. No. 139,345; Feb. 1; v. 283; p. 170.
- Gaskets. McCord Manufacturing Company. No. 140,712; Mar. 22; v. 284; p. 751.
- Gaskets. McCord Manufacturing Company. No. 143,391; May 31; v. 286; p. 1050.
- Gaskets, Copper. Universal Gasket & Manufacturing Co. No. 142,162; May 3; v. 286; p. 191.
- Gasolene. Gilmore Petroleum Company. No. 140,599; Mar. 22; v. 284; p. 744.
- Gasolene. Lamson Oil Co., Inc. No. 148,590; Nov. 15.
- Gasolene. Puente Oil Company. No. 143,523; May 31; v. 286; p. 1056.
- Gasolene. Service Oil Refining Company. No. 147,160; Oct. 4.
- Gasolene. Stoll Oil Refining Co. No. 140,982; Mar. 29; v. 284; p. 949.
- Gasolene and kerosene. Hammer & Co. No. 146,760; Sept. 20; v. 290; p. 634.
- Gasolene and kerosene. Thomas W. Simmons Company. No. 144,587; July 5; v. 288; p. 200.
- Gasolene and removing carbon, Preparation for intensifying. E. K. Lincoln. No. 148,684; Nov. 22.
- Gasolene, Chemical preparation for intensifying. J-R Products Company. No. 146,783; Sept. 20; v. 290; p. 634.
- Gasolene, Chemical preparation to increase the efficiency and power of. American Automobile Accessories Company. No. 147,070; Oct. 4.
- Gasolene, Device for measuring and controlling the flow of. Pearson-Wiggins Co. No. 141,198; Apr. 12; v. 285; p. 383.
- Gasolene-engines. Turner & Moore Mfg. Co. No. 146,381; Sept. 6; v. 290; p. 204.
- Gasolene-gages. Automatic Appliance Company. No. 140,256; Mar. 8; v. 284; p. 369.
- Gasolene-intensifier and carbon-remover. Tyler Chemical Company. No. 141,003; Mar. 29; v. 284; p. 949.
- Gasolene, kerosene, &c. Service Oil Refining Company. No. 146,501; Sept. 6; v. 290; p. 215.
- Gasolene, kerosene, distillate, gas and fuel oils. North American Oil & Refinery Corporation. No. 140,502; Mar. 15; v. 284; p. 585.
- Gasolene, kerosene, lubricating-oil. Producers & Refiners Corporation. No. 142,319; May 10; v. 286; p. 405.
- Gasolene, kerosene, lubricating oils and greases. Liberty Oil Company. No. 148,138; Nov. 8.
- Gasolene, kerosene, naphtha, &c. Tide Water Oil Company. No. 143,758; June 7; v. 287; p. 188.
- Gasolene, lubricating oils and greases, &c. American Pacific Company. No. 148,779; Nov. 29.
- Gasolene, naphtha, kerosene, &c. Ohio Refining Company. No. 144,884; July 19; v. 288; p. 621.
- Gasolene, Preparation for improving. A. Danville. No. 142,975; May 24; v. 286; p. 845.
- Gasolene, Preparation to be added to. Mile-A-Minute Incorporated. No. 139,004; Jan. 18; v. 282; p. 555.
- Gasolene-saver. Chemical. Vee Gee Mfg. Co. No. 144,290; June 28; v. 287; p. 777.



- Gauze for medicinal and surgical purposes, Bleached. Marshall Field & Company. No. 149,593; Dec. 13.
- Gear-rings, Fly-wheel. Kirk-Barbe Company. No. 146,494; Sept. 6; v. 290; p. 214.
- Gear-shifts. United States Auto Gear Shift Co. No. 142,807; May 17; v. 286; p. 635.
- Gears and differential cases for vehicle rear axles. Detroit Bevel Gear Company. No. 149,032; Dec. 6.
- Gears, rawhide gears and pinions, &c., Cut-metal. Meachem Gear Corporation. No. 144,132; June 21; v. 287; p. 588.
- Gelatin. Essex Gelatine Company. No. 139,676; Feb. 8; v. 283; p. 356.
- Germicidal preparation, Certain. Scalp Germicide Company. No. 147,031; Sept. 27; v. 290; p. 805.
- Germicide. R. L. Crowe. No. 141,913; May 3; v. 286; p. 184.
- Germicide, bactericide, &c. Continental Chemical Corporation. No. 139,125; Jan. 25; v. 282; p. 733.
- Germicides, insecticides, and disinfectants. Magnolia Chemical Company. No. 138,834; Jan. 11; v. 282; p. 377.
- Germicides, insecticides, disinfectants. Germ-A-Lene Manufacturing Company. No. 144,573; July 12; v. 288; p. 424.
- Gin, peach bitters, &c., Dry. Seager, Evans & Co. No. 139,388; Feb. 1; v. 283; p. 171.
- Ginger-ale. City Ice Delivery Company. No. 141,096; Apr. 12; v. 285; p. 380.
- Ginger-ale. S. L. Goldman. No. 141,559; Apr. 26; v. 285; p. 780.
- Ginger-ale. Narragansett Brewing Co. No. 139,463; Feb. 1; v. 283; p. 176.
- Ginger-ale. Primalt Products Company. No. 147,671; Oct. 25.
- Ginger-ale. M. Rothstein. No. 144,463; July 5; v. 288; p. 195.
- Ginger-ale. Schoenhofen Company. No. 145,454; Aug. 2; v. 289; p. 181.
- Ginger-ale and ber-cola. J. Berthiaume & Co. No. 144,701; July 19; v. 288; p. 615.
- Ginger-ale and sarsaparilla. Red Raven Corporation. No. 140,946; Mar. 29; v. 284; p. 948.
- Ginger-ale, Bottled. C. H. Thom. No. 150,139; Dec. 27.
- Ginger-ale, lemon-soda, cream-soda, birch-beer, &c. Tiffin Products, Inc. No. 148,949; Nov. 29.
- Ginger-ale, sarsaparilla, birch-beer, and soda-water. Schoenhofen Company. No. 143,461; May 31; v. 286; p. 1052.
- Ginger-ale, sparkling, still, and lithia waters. Equinox Mountain Spring. No. 140,118; Mar. 8; v. 284; p. 364.
- Ginger cordial, Non-alcoholic. Cyco Medicine Company. No. 145,344; Aug. 2; v. 289; p. 178.
- Gingham in the piece. The Boston Manufacturing Company. No. 140,569; Mar. 22; v. 284; p. 743.
- Gingham in the piece. York Mfg. Co. No. 149,299; Dec. 6.
- Gingham piece goods. Boston Manufacturing Company. No. 146,695; Sept. 20; v. 290; p. 632.
- Ginghams. Boston Manufacturing Company. No. 140,568; Mar. 22; v. 284; p. 743.
- Ginghams in the piece. Sears, Roebuck and Co. No. 144,927; July 19; v. 288; p. 622.
- Ginghams, zephyrs, and cheviots in the piece. William R. Moore Dry Goods Company. No. 146,300; Sept. 6; v. 290; p. 201.
- Glare-shields, Automobile. Protectoglare Co. No. 149,717; Dec. 20.
- Glass. Corning Glass Works. No. 141,342; Apr. 19; v. 285; p. 566.
- Glass. Corning Glass Works. No. 147,052; Sept. 27; v. 290; p. 808.
- Glass bottles and jars. The Kearns-Gorsuch Bottle Company. No. 138,652; Jan. 4; v. 282; p. 188.
- Glass cleansing and polishing liquid. H. T. Prange. No. 149,487; Dec. 13.
- Glass-cutters, screw-drivers, bits, &c. Crescent Company. No. 141,911; May 3; v. 286; p. 183.
- Glass globes and reflectors. Holophane Glass Company. No. 141,967-8; May 3; v. 286; p. 185.
- Glass holders, vases, and statuettes. M. V. Garnsey. No. 140,386; Mar. 15; v. 284; p. 581.
- Glass jars and bottles. Pacific Coast Glass Works. No. 143,418; May 31; v. 286; p. 1051.
- Glass lens for headlights. Flexo Lens Protector Company. No. 145,361; Aug. 2; v. 289; p. 178.
- Glass, Raw. La Societe Anonyme Bernard. Verrierie des Anciens Etablissements de Bagneux. Nos. 147,629-30; Oct. 25.
- Glass, Reinforced. Bankers Protective Appliance Corp. No. 142,928; May 24; v. 286; p. 843.
- Glasses, Opera and field. R. H. Macy & Co. Nos. 144,197-8; June 28; v. 287; p. 774.
- Glasses, Reading. Franklin Optical Company. No. 146,573; Sept. 13; v. 290; p. 421.
- Glassware. General Electric Company. No. 143,348; May 31; v. 286; p. 1049.
- Glassware. George Borgfeldt & Co. No. 140,083; Mar. 8; v. 284; p. 363.
- Glassware. Imperial Glass Company. No. 145,698; Aug. 16; v. 289; p. 594.
- Glassware, Baking. Bartlett-Collins Glass Co. No. 142,283; May 31; v. 286; p. 1047.
- Glassware, Certain. General Electric Company. Nos. 148,838-9; Nov. 29.
- Glassware, Hand-painted. F. T. Westbrook. No. 142,170; May 3; v. 286; p. 192.
- Glazing and for filling seams in woodwork, Composition for. H. B. F. Kuhls. No. 139,338; Feb. 1; v. 283; p. 170.
- Glazing, roofing, and calking and water-proofing compounds. Quality Brands Company. No. 143,435; May 31; v. 286; p. 1052.
- Glossing compound for eyebrows, eyelashes, mustache, and beard. George Borgfeldt & Co. No. 143,358; May 31; v. 286; p. 1049.
- Gloves. Josiah H. Donforth & Company. No. 147,296; Oct. 11.
- Gloves and mittens. Boss Manufacturing Company. Nos. 142,939-44; May 24; v. 286; p. 844.
- Gloves and mittens. Milwaukee Glove Company. No. 142,618; May 17; v. 286; p. 629.
- Gloves and mittens. Milwaukee Glove Company. No. 145,153; July 26; v. 288; p. 815.
- Gloves and mittens. H. J. Moore Glove Company. No. 144,866; July 19; v. 288; p. 620.
- Gloves and mittens, Fabric. Boss Manufacturing Company. Nos. 140,562-7; Mar. 22; v. 284; p. 743.
- Gloves and mittens, Fabric. Boss Manufacturing Company. Nos. 141,875-6; May 3; v. 286; p. 182.
- Gloves and mittens, Fabric. Indianapolis Glove Company. No. 143,053; May 24; v. 286; p. 847.
- Gloves and mittens, Fabric and leather. The Bacon Bros. Co. No. 140,549; Mar. 22; v. 284; p. 743.
- Gloves, Fabric. H. M. Smaltz. No. 138,864; Jan. 11; v. 282; p. 378.
- Gloves, Fabric and asbestos. Oxweld Acetylene Company. No. 140,663; Mar. 22; v. 284; p. 746.
- Gloves, Fabric and leather. Butler Brothers. No. 149,646; Dec. 20.
- Gloves, Leather. Coulter Dry Goods Company. No. 144,992; July 19; v. 288; p. 626.
- Gloves, Leather. Heller Leather Company. No. 149,780; Dec. 20.
- Gloves, Leather. Jordan Marsh Company. No. 141,150; Apr. 12; v. 285; p. 381.
- Gloves, Silk, fabric, and leather. George A. Guest. No. 147,775; Nov. 1.
- Gloves, Sueded fabric. Nu-Fabric Products Corporation. No. 142,311; May 10; v. 286; p. 405.
- Gloves, underwear, and hosiery. Lorraine Hosiery Co. No. 142,014; May 3; v. 286; p. 187.
- Glue. Monite Water Proof Glue Company. No. 147,646; Oct. 25.
- Glue. United Products Corporation of America. No. 142,160; May 3; v. 286; p. 191.
- Glue and paste. Central Adhesive Company. No. 149,871; Dec. 27.
- Glue, Casein. The Casein Manufacturing Co. No. 141,334; Apr. 19; v. 285; p. 566.
- Glue material. Starch. Perkins Glue Company. No. 139,865; Feb. 22; v. 283; p. 754.
- Glues. United Products Corporation of America. No. 142,161; May 3; v. 286; p. 191.
- Glycerin. Procter and Gamble Company. No. 140,015; Mar. 1; v. 284; p. 174.
- Goiter reducer or treatment. W. T. Kelley. No. 146,786; Sept. 20; v. 290; p. 635.
- Gold for filling teeth, Fibrous. S. S. White Dental Manufacturing Company. No. 146,625; Sept. 13; v. 290; p. 423.
- Golf-balls. Dunlop America Limited. No. 142,989; May 24; v. 286; p. 845.
- Golf-balls. Midland Rubber Co. Ltd. No. 150,007; Dec. 27.
- Golf-balls. United States Rubber Company. No. 149,273; Dec. 6.
- Golf-balls. United States Rubber Company. No. 149,533; Dec. 13.
- Golf-balls and golf-stick grips. Marathon Tire and Rubber Company. No. 149,469; Dec. 13.
- Golf-clubs. Jordan Marsh Company. No. 149,127; Dec. 6.
- Golf-clubs. A. G. Spalding & Bros. No. 148,930; Nov. 29.
- Golf-clubs. S. Tousey. No. 150,143; Dec. 27.
- Golf-clubs, fishing-rods, minnow-seines, &c. Simmons Hardware Company. No. 144,331; June 28; v. 287; p. 782.
- Golf-putters. Kraeuter & Co. No. 149,134; Dec. 6.
- Golf score-pads and cards and covers therefor. K. W. Brown. No. 147,759; Nov. 1.
- Golf-stick leather grips, racket-handles. Wright & Wright. No. 146,916; Sept. 20; v. 290; p. 638.
- Governors for governing the speed of internal-combustion motors. Ford Dealers Supply Company. No. 149,058; Dec. 6.
- Governors, tractor-hitches, &c., for internal-combustion engines. Tractor Appliance Company. No. 146,612; Sept. 13; v. 290; p. 423.
- Gowns and frocks. Levy Reichback & Co. No. 140,526; Mar. 15; v. 284; p. 585.
- Gowns, ladies' suits, wraps, hats, &c. Bobe, Inc. No. 147,549; Oct. 25.
- Grain and horse feed. E. Redd. No. 148,226; Nov. 8.
- Grain-bags. Androscoggin Mills. No. 142,431; May 17; v. 286; p. 624.



*Alphabetical list of trade-marks—Continued.*

- Grain ration for dairy-cattle, Mixed-. Dodge-Hooker Mills. No. 143,239; May 24; v. 286; p. 855.
- Grains and feeds. F. Kieser & Son Co. No. 139,562; Feb. 8; v. 283; p. 351.
- Grape-juice. Grape Ola Products Corporation. No. 144,785; July 19; v. 288; p. 618.
- Grape-juice, Non-intoxicating. A. C. Danz. No. 139,516; Feb. 8; v. 283; p. 350.
- Grape-juice. Rubyhill Vineyard Co. No. 150,085; Dec. 27.
- Grape-juice. Uva Grape Products Company. No. 142,343; May 10; v. 286; p. 406.
- Grape-juice, Sparkling non-alcoholic. California Products and Importing Co. No. 139,774; Feb. 22; v. 283; p. 751.
- Grape-juice vermouth. Renken & Yates Smith. No. 139,025; Jan. 18; v. 282; p. 555.
- Grape product containing less than one-half of one per cent. of alcohol. A. D. Lewis. No. 138,662; Jan. 4; v. 282; p. 188.
- Grape-syrup. S. V. Peiser & Company. No. 143,710; June 7; v. 287; p. 186.
- Grapes, Vaporized. T. W. W. Forrest. No. 146,739; Sept. 20; v. 290; p. 633.
- Grapefruit and oranges, Fresh. W. A. Simonds. No. 144,933; July 19; v. 288; p. 622.
- Grapefruit paste. J. Haritopol. No. 146,995; Sept. 27; v. 290; p. 804.
- Graphite. Joseph Dixon Crucible Company. No. 139,131; Jan. 25; v. 282; p. 733.
- Graphite and amorphous carbon. Acheson Graphite Company. No. 147,835; Nov. 1.
- Graphite, Flake. Superior Flake Graphite Company. No. 139,217; Jan. 25; v. 282; p. 736.
- Graphite, mica and soapstone, Flake-. R. M. Hollingshead Co. No. 149,947; Dec. 27.
- Graphite, Powdered. United States Graphite Company. No. 143,496; May 31; v. 286; p. 1054.
- Graphite, Powdered and flaked. J. G. Allen. No. 145,494; Aug. 2; v. 289; p. 183.
- Graphites, Refined. General Process Corporation. No. 139,451; Feb. 1; v. 283; p. 175.
- Grass-seed lawn mixture. Atlantic Grass Seed Co. Nos. 143,893-4; June 21; v. 287; p. 577.
- Grates and incinerators. Washburn & Granger. No. 146,661; Sept. 13; v. 290; p. 429.
- Gratings. W. L. Pattison. No. 146,595; Sept. 13; v. 290; p. 422.
- Gratings for floors, Metal. Irving Iron Works Company. No. 139,081; Jan. 18; v. 282; p. 559.
- Gravel. Southern Paving Gravel Company. No. 146,512; Sept. 6; v. 290; p. 216.
- Gravers, chisels, gougers, burnishers, &c. Hammel, Riglander & Co. No. 143,971; June 18; v. 287; p. 580.
- Grease for soap-making. Consolidated Rendering Co. No. 147,725; Oct. 25.
- Grease stock. Philip Carey Manufacturing Company. No. 149,200; Dec. 6.
- Greases, Launching-. Fiske Brothers Refining Co. No. 138,813; Jan. 11; v. 282; p. 376.
- Greases, Lubricating-. Rusk Oil Co. of Philadelphia. No. 150,088; Dec. 27.
- Greases, Transmission and like. Parker-Kiskadden Company. No. 149,469; Dec. 13.
- Grinding and polishing stones. Acme Abrasive Company. No. 147,530; Oct. 25.
- Grinding and pulverizing mills. Bradley Pulverizer Co. No. 149,756; Dec. 20.
- Grinding compound. Worcester Abrasive Company. No. 141,278; Apr. 12; v. 285; p. 385.
- Grinding-machines and parts thereof. M. J. Davidsen. No. 147,451; Oct. 18.
- Grinding-wheels and abrasive stones. Norton Company. No. 142,644; May 17; v. 286; p. 630.
- Ground or flooring wearing-surface compound. M. D. Shannon. No. 143,746; June 7; v. 287; p. 187.
- Growers' supplies. E. Bean & Son Co. No. 140,697; Mar. 22; v. 284; p. 749.
- Gum. L. A. Dreyfus Co. No. 144,749; July 19; v. 288; p. 617.
- Gum. L. A. Dreyfus Co. No. 145,075; July 26; v. 288; p. 812.
- Gum and candy, Chewing-. Listerated Gum Corporation. No. 145,729; Aug. 16; v. 289; p. 595.
- Gum and cement, glue, Adhesive. E. E. Galle. No. 142,541; May 17; v. 286; p. 627.
- Gum-arabic, gum-tragacanth, perfumery, &c. Orbis Products Trading Co. No. 138,845; Jan. 11; v. 282; p. 377.
- Gum arabic, mother-of-pearl shells, ivory, and dari-seed. Sudan Import and Export Company. No. 147,700; Oct. 25.
- Gum, Candy-coated chewing-. Wm. Wrigley Jr., Company. No. 143,228; May 24; v. 286; p. 853.
- Gum, Chewing-. Amboy Products Co. No. 146,668; Sept. 20; v. 290; p. 631.
- Gum, Chewing-. American Chiclé Company. No. 141,309; Apr. 19; v. 285; p. 565.
- Gum, Chewing-. American Chiclé Company. No. 141,474; Apr. 26; v. 285; p. 777.
- Gum, Chewing-. American Chiclé Company. No. 149,818; Dec. 27.
- Gum, Chewing-. Common Sense Gum Company. No. 146,638; Sept. 13; v. 290; p. 426.
- Gum, Chewing-. M. S. Copeland. No. 146,205; Sept. 6; v. 290; p. 198.
- Gum, Chewing-. D. M. Dickinson, Jr. No. 141,347; Apr. 19; v. 285; p. 566.
- Gum, Chewing-. D. M. Dickinson, Jr. No. 141,534; Apr. 26; v. 285; p. 779.
- Gum, Chewing-. H. C. Faust. No. 148,403; Nov. 15.
- Gum, Chewing-. Goudey Gum Co. The. No. 148,056; Nov. 8.
- Gum, Chewing-. India Company. No. 147,001; Sept. 27; v. 290; p. 805.
- Gum, Chewing-. Listerated Gum Corporation. No. 143,674; June 7; v. 287; p. 185.
- Gum, Chewing-. F. R. Perkins. No. 142,739; May 17; v. 286; p. 633.
- Gum, Chewing-. Pirodent Corporation. No. 143,716; June 7; v. 287; p. 186.
- Gum, Chewing-. Triangle Laboratories Co. No. 139,904; Feb. 22; v. 283; p. 755.
- Gum, Chewing-. Wm. Wrigley Jr. Company. No. 144,501; July 5; v. 288; p. 196.
- Gum, Chewing-. Wm. Wrigley Jr. Company. No. 148,751; Nov. 22.
- Gum, Sugar-coated chewing-. Wm. Wrigley Jr. Company. No. 148,964; Nov. 29.
- Gum-dispensing machines, Chewing-. American Pop Corn Company. No. 141,841; May 3; v. 286; p. 181.
- Gums, rubber cement, Repair. Federal Rubber Company, The. Nos. 149,671-3; Dec. 20.
- Gun recoil-pads. B. F. Goodrich Company. No. 146,645; Sept. 13; v. 290; p. 427.
- Gun-recoil pads for hand-arms. B. F. Goodrich Company. Nos. 149,387-8; Dec. 13.
- Guns, Grease-. Deming Company. No. 145,302; July 26; v. 288; p. 817.
- Guns, Machine-. Auto Ordnance Corporation. No. 140,320; Mar. 15; v. 284; p. 579.
- Gutters and rubber roofing, Wooden. E. M. Long & Sons. No. 143,858; June 14; v. 287; p. 400.
- Hacksaw. H. C. Pittman. No. 140,935; Mar. 29; v. 284; p. 947.
- Hacksaw-blades. Henry G. Thompson & Son Company. No. 150,140; Dec. 27.
- Hair-. L. Levussove. No. 149,140; Dec. 6.
- Hair and scalp preparation. J. M. Slavin. No. 146,508; Sept. 6; v. 290; p. 216.
- Hair and scalp, Preparation for the treatment of the. E. M. Carroll. No. 141,886; May 3; v. 286; p. 183.
- Hair and scalp preparations. V. B. Mullins. No. 146,301; Sept. 6; v. 290; p. 201.
- Hair and scalp shampoo preparations. Seligman and Latz. No. 144,419; July 5; v. 288; p. 193.
- Hair and scalp tonic. M. V. Fitz Water. No. 139,296; Feb. 1; v. 283; p. 169.
- Hair and scalp tonic, &c. Imperial Pharmaceutical Company. No. 144,188; June 28; v. 287; p. 774.
- Hair and scalp tonic. L. Simmons. No. 146,869; Sept. 20; v. 290; p. 637.
- Hair and scalp tonic and invigorant. Harriet Hubbard Ayer. No. 139,244; Feb. 1; v. 283; p. 167.
- Hair and scalp tonics and dressings. E. L. McDowell. No. 149,151; Dec. 6.
- Hair-bleach. J. H. Karp. No. 140,153; Mar. 8; v. 284; p. 365.
- Hair-coloring. Zander Bros. No. 138,888; Jan. 11; v. 282; p. 378.
- Hair-coloring preparation. M. Levy. No. 138,831; Jan. 11; v. 282; p. 377.
- Hair, Compound for promoting the growth of the. J. C. Rudd. No. 150,086; Dec. 27.
- Hair-cream. Columbia Perfume Company. No. 140,780; Mar. 29; v. 284; p. 942.
- Hair-curlers. B. E. Beadle. No. 147,920; Nov. 8.
- Hair-curlers. M. J. Peppard. No. 149,603; Dec. 13.
- Hair-curlers. E. Roessner. No. 142,324; May 10; v. 286; p. 406.
- Hair-curlers. A. Steinhardt & Bro. No. 145,292; July 26; v. 288; p. 825.
- Hair-curlers. West Electric Hair Curler Co. No. 147,254; Oct. 4.
- Hair-cutter and vibrator, Combined electric. Pacific Coast Barber Supply Company. No. 144,620; July 12; v. 288; p. 425.
- Hair-cutters, Safety. Hasson Manufacturing Company. No. 139,078; Jan. 18; v. 282; p. 559.
- Hair-dressing. B. Robins. No. 144,046; June 21; v. 287; p. 582.
- Hair-dressing. Hyman & Oppenheim. No. 146,776; Sept. 20; v. 290; p. 634.
- Hair-dressing. L. Rahman. No. 146,286; Sept. 6; v. 290; p. 201.
- Hair-dressing preparations. T. Noonan & Sons Company. No. 145,986; Aug. 23; v. 289; p. 789.
- Hair-dye. N. Harwitz. No. 141,974; May 3; v. 286; p. 185.
- Hair goods, Ladies'. R. Ginsberg & Bro. No. 139,139; Jan. 25; v. 282; p. 734.
- Hair-grower. T. W. Berry. No. 143,910; June 21; v. 287; p. 578.
- Hair-grower. M. File. No. 146,088; Aug. 30; v. 289; p. 1014.
- Hair-grower. H. Folke. No. 147,098; Oct. 4.
- Hair-grower. H. Jones. No. 148,100; Nov. 8.



*Alphabetical list of trade-marks—Continued.*

- Hair-grower. L. E. Moore. No. 148,691; Nov. 22.  
 Hair-grower. R. B. Shields. No. 144,472; July 5; v. 288; p. 195.  
 Hair-grower. A. E. Wagner. No. 143,207; May 24; v. 286; p. 852.  
 Hair-grower. L. Wiley. No. 149,291; Dec. 6.  
 Hair-grower or tonic. E. Goss. No. 143,625; June 7; v. 287; p. 184.  
 Hair-grower, pressing-oil, &c. E. B. Jackson. No. 148,872; Nov. 29.  
 Hair-grower, pressing-oil, &c. R. D. St. Clair. No. 144,686; July 12; v. 288; p. 425.  
 Hair-grower, pressing-oil, &c. S. F. Winston. No. 138,746; Jan. 4; v. 282; p. 190.  
 Hair-grower salve and a salve for dressing and beautifying the hair. A. I. Russell. No. 144,626; July 12; v. 288; p. 425.  
 Hair-grower, vegetable shampoo, and tetter-balm. S. B. Fields. No. 147,095; Oct. 4.  
 Hair-growers and hair-shampooing mixture. T. Criss. No. 138,959; Jan. 18; v. 282; p. 554.  
 Hair-growing and pressing preparations. H. B. Reid. No. 149,607; Dec. 13.  
 Hair-growing preparation. Mrs. M. F. Reid. No. 143,146; May 24; v. 286; p. 850.  
 Hair-net and veil, Combination. Hair Net Importing Co. No. 139,454; Feb. 1; v. 283; p. 175.  
 Hair-nets. F. D. Ammidown. No. 147,266; Oct. 11.  
 Hair-nets. S. Bakal & Son. No. 148,634; Nov. 22.  
 Hair-nets. S. Blechman & Sons. No. 149,846; Dec. 27.  
 Hair-nets. Bonnie-B Company. No. 147,754; Nov. 1.  
 Hair-nets. Breslau Brothers & Bernstein. No. 149,302; Dec. 13.  
 Hair-nets. Burnstine and Nachman. No. 143,917; June 21; v. 287; p. 578.  
 Hair-nets. N. B. Cohen. No. 149,014; Dec. 6.  
 Hair-nets. Crest Net Company. No. 147,974; Nov. 8.  
 Hair-nets. E. Dantzig. No. 140,360; Mar. 15; v. 284; p. 580.  
 Hair-nets. East and West Trading Corporation. No. 143,595; June 7; v. 287; p. 183.  
 Hair-nets. W. Eliowitz. No. 139,292; Feb. 1; v. 283; p. 168.  
 Hair-nets. Empire Notion Co. No. 149,912; Dec. 27.  
 Hair-nets. Enders Human Hair Co. No. 143,962; June 21; v. 287; p. 579.  
 Hair-nets. E. Fineburg. No. 141,547; Apr. 26; v. 285; p. 779.  
 Hair-nets. S. Glemby. No. 139,797; Feb. 22; v. 283; p. 752.  
 Hair-nets. S. Glemby, Inc. No. 141,558; Apr. 26; v. 285; p. 779.  
 Hair-nets. S. Glemby, Inc. No. 143,244; May 24; v. 286; p. 856.  
 Hair-nets. S. Glemby, Inc. Nos. 143,618-20; June 7; v. 287; p. 183.  
 Hair-nets. S. Glemby, Inc. No. 143,804; June 7; v. 287; p. 191.  
 Hair-nets. S. Glemby's Sons Co. No. 146,467; Sept. 6; v. 290; p. 211.  
 Hair-nets. S. Glemby's Sons Co. No. 149,076; Dec. 6.  
 Hair-nets. Graf Bros. No. 146,646; Sept. 13; v. 290; p. 427.  
 Hair-nets. Graf Bros. No. 149,426; Dec. 13.  
 Hair-nets. W. T. Grant Co. No. 149,081; Dec. 6.  
 Hair-nets. Hair Net Importing Company. No. 149,092; Dec. 6.  
 Hair-nets. M. Howe Company. No. 140,611; Mar. 22; v. 284; p. 745.  
 Hair-nets. Hyman & Oppenheim. No. 139,327; Feb. 1; v. 283; p. 169.  
 Hair-nets. A. Klar. Nos. 147,863-4; Nov. 1.  
 Hair-nets. G. Klemperer. Nos. 146,495-6; Sept. 6; v. 290; p. 214.  
 Hair-nets. F. E. Low. No. 146,283; Sept. 6; v. 290; p. 201.  
 Hair-nets. May Department Stores Company. No. 147,128; Oct. 4.  
 Hair-nets. E. A. McGinnis. No. 143,995; June 21; v. 287; p. 580.  
 Hair-nets. H. Meuer. No. 145,743; Aug. 16; v. 289; p. 595.  
 Hair-nets. National Commodities Co. No. 147,374; Oct. 11.  
 Hair-nets. National Hair Goods Co. No. 143,258; May 24; v. 286; p. 857.  
 Hair-nets. National Trading Company. No. 141,788; Apr. 26; v. 285; p. 791.  
 Hair-nets. National Trading Company. No. 144,880; July 19; v. 288; p. 621.  
 Hair-nets. National Trading Company. No. 144,906; July 19; v. 288; p. 622.  
 Hair-nets. National Trading Company. No. 150,024; Dec. 27.  
 Hair-nets. New York Merchandise Company. No. 148,186; Nov. 8.  
 Hair-nets. New York Merchandise Company. Nos. 148,492-3; Nov. 15.  
 Hair-nets. North American Ginseng Co. No. 146,313; Sept. 6; v. 290; p. 201.  
 Hair-nets. W. F. Norton. No. 143,417; May 31; v. 286; p. 1051.  
 Hair-nets. E. G. Ochlschlaeger. No. 142,680; May 17; v. 286; p. 631.  
 Hair-nets. S. S. Pierce Co. No. 143,715; June 7; v. 287; p. 186.  
 Hair-nets. Reichman & Faust. No. 144,042; June 21; v. 287; p. 582.  
 Hair-nets. Reichman & Faust. No. 145,184; July 26; v. 288; p. 816.  
 Hair-nets. I. W. Rice. No. 148,235; Nov. 8.  
 Hair-nets. Rieser Company. No. 149,214; Dec. 6.  
 Hair-nets. Robbins & Schwartz. No. 141,666; Apr. 26; v. 285; p. 783.  
 Hair-nets. Samstag & Hilder Bros. No. 142,745; May 17; v. 286; p. 633.  
 Hair-nets. Samstag & Hilder Bros. No. 145,804; Aug. 16; v. 289; p. 597.  
 Hair-nets. Samstag & Hilder Bros. No. 146,350; Sept. 6; v. 290; p. 203.  
 Hair-nets. Samstag & Hilder Bros. No. 147,680; Oct. 25.  
 Hair-nets. Samstag & Hilder Bros. No. 150,096; Dec. 27.  
 Hair-nets. G. Sattler. No. 147,813; Nov. 1.  
 Hair-nets. N. Seligman Merchandise Co. No. 143,745; June 7; v. 287; p. 187.  
 Hair-nets. N. Seligman Merchandise Co. No. 144,928; July 19; v. 288; p. 622.  
 Hair-nets. L. Stein. No. 147,819; Nov. 1.  
 Hair-nets. Strauss Bros. & Co. No. 143,267; May 24; v. 286; p. 858.  
 Hair-nets. D. Teitelbaum. No. 148,280; Nov. 8.  
 Hair-nets. C. K. Thau. Nos. 147,177-8; Oct. 4.  
 Hair-nets. G. Vogel. No. 144,965; July 19; v. 288; p. 623.  
 Hair-nets. A. A. West. No. 145,529; Aug. 2; v. 289; p. 187.  
 Hair-nets. Western Bottle Manufacturing Company. No. 143,771; June 7; v. 287; p. 188.  
 Hair-nets. Western Bottle Mfg. Co. No. 148,960; Nov. 29.  
 Hair-nets. Yeomanette Company. No. 149,560; Dec. 13.  
 Hair-nets and handkerchiefs. Gilman Bros. No. 149,676; Dec. 20.  
 Hair-nets and veils. National Trading Company. No. 146,544; Sept. 6; v. 290; p. 220.  
 Hair-nets and veils. New York Merchandise Company. Nos. 141,623-4; Apr. 26; v. 285; pp. 781-2.  
 Hair-nets manufactured from silk and hair. G. Vogel. No. 139,659; Feb. 8; v. 283; p. 354.  
 Hair-nets, ribbons, handkerchiefs, veils. A. C. Fischer. No. 148,023; Nov. 8.  
 Hair-nets. Sanitary human. National Commodities Co. No. 143,694; June 7; v. 287; p. 186.  
 Hair-nets. Silk. Fuld, Traube & Co. No. 141,555; Apr. 26; v. 285; p. 779.  
 Hair or wool, Animal. J. Ephraimson. No. 149,667; Dec. 20.  
 Hair-plins and combs. T. W. Saul. No. 149,227; Dec. 6.  
 Hair-pomade. Boyd Manufacturing Company. No. 140,758; Mar. 29; v. 284; p. 942.  
 Hair preparation. S. Pozmantier. No. 146,848; Sept. 20; v. 290; p. 636.  
 Hair, Preparation for restoring the natural color of the. F. M. Espinosa-Rendon. No. 143,728; June 7; v. 287; p. 187.  
 Hair-producer. M. C. Porter. No. 150,061; Dec. 27.  
 Hair-receivers, bottle-holders, salve-jars, &c. Newark Tortoise Shell Novelty Co. No. 147,059; Sept. 27; v. 290; p. 808.  
 Hair-receivers, bottle-holders, salve-jars, &c. Newark Tortoise Shell Novelty Co. No. 149,710; Dec. 20.  
 Hair-remover and face-cleanser. R. Schoenholz. No. 146,137; Aug. 30; v. 289; p. 1015.  
 Hair-restoratives. C. Damschinsky. No. 148,811; Nov. 29.  
 Hair-restorative. M. G. Krebs. No. 149,135; Dec. 6.  
 Hair-restorer. R. J. Arata. No. 145,927; Aug. 23; v. 289; p. 787.  
 Hair-restorer. A. Flores. No. 138,815; Jan. 11; v. 282; p. 376.  
 Hair-restorer. G. R. Henderson. No. 144,414; July 5; v. 288; p. 193.  
 Hair-restorer. J. W. Jones. No. 146,781; Sept. 20; v. 290; p. 634.  
 Hair-restorer. Rymil Chemical Company. No. 143,156; May 24; v. 286; p. 850.  
 Hair-restorer. A. L. Schreiber. No. 140,676; Mar. 22; v. 284; p. 747.  
 Hair restorer and shampoo. T. E. Silvera. No. 143,469; May 31; v. 286; p. 1053.  
 Hair restorer, Gray. Removo Company. No. 148,522; Nov. 15.  
 Hair restorer, shampoo, and tonic. Norton, Rogers & Hunter. No. 145,765; Aug. 16; v. 289; p. 596.  
 Hair-restorers. B. S. Smith. No. 139,760; Feb. 22; v. 283; p. 751.  
 Hair-salve. M. A. Jordan. No. 139,149; Jan. 25; v. 282; p. 734.  
 Hair-shampoo. A. J. Krank. No. 147,438; Oct. 11.  
 Hair-shampoo. La Valliere Co. No. 140,420; Mar. 15; v. 284; p. 582.  
 Hair-shampoo. Salux Laboratories. No. 138,857; Jan. 11; v. 282; p. 377.  
 Hair-tonic. J. Berner. No. 139,117; Jan. 25; v. 282; p. 733.



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- Hair-tonic. G. Buonaiuto. No. 146,698; Sept. 20; v. 290; p. 632.
- Hair-tonic. H. A. Cassebeer, Inc. No. 144,558; July 12; v. 288; p. 423.
- Hair-tonic. D. P. Cooper. No. 141,907; May 3; v. 286; p. 183.
- Hair-tonic. D. Costarella. No. 143,924; June 21; v. 87; p. 578.
- Hair-tonic. J. G. Emerson. No. 146,086; Aug. 30; v. 289; p. 1014.
- Hair-tonic. M. Falcon. No. 140,800; Mar. 29; v. 284; p. 942.
- Hair-tonic. L. Fitterman. No. 143,003; May 24; v. 286; p. 846.
- Hair-tonic. A. F. Foster. No. 140,124; Mar. 8; v. 284; p. 364.
- Hair-tonic. J. L. Hall. No. 140,819; Mar. 29; v. 284; p. 944.
- Hair-tonic. S. V. Howard. No. 138,824; Jan. 11; v. 282; p. 376.
- Hair-tonic. H. B. Jaeger Barber Supply Co. No. 146,650; Sept. 13; v. 290; p. 428.
- Hair-tonic. M. A. Keffer. No. 145,706; Aug. 16; v. 289; p. 594.
- Hair-tonic. J. B. Kori. No. 145,973; Aug. 23; v. 289; p. 788.
- Hair-tonic. J. Langer. No. 142,002; May 3; v. 286; p. 186.
- Hair-tonic. J. Leggiere. No. 145,974; Aug. 23; v. 289; p. 788.
- Hair-tonic. J. S. Livesay. No. 148,143; Nov. 8.
- Hair-tonic. Madam Esmeralda. No. 142,997; May 24; v. 286; p. 845.
- Hair-tonic. L. C. McDonald. No. 149,149; Dec. 6.
- Hair-tonic. T. Noonan & Sons Company. No. 144,329; June 28; v. 287; p. 782.
- Hair-tonic. T. Noonan & Sons Company. No. 146,046; Aug. 23; v. 289; p. 793.
- Hair-tonic. Potentia Company. No. 148,215; Nov. 8.
- Hair-tonic. C. L. Riley. No. 147,020; Sept. 27; v. 290; p. 805.
- Hair-tonic. L. Roma. No. 140,201; Mar. 8; v. 284; p. 367.
- Hair-tonic. St. Lawrence Manufacturing Company. No. 147,820; Nov. 1.
- Hair-tonic. L. M. Vaeth. No. 143,502; May 31; v. 286; p. 1054.
- Hair-tonic. F. E. Williams. No. 145,867; Aug. 16; v. 289; p. 599.
- Hair-tonic. The Zanora Company. No. 139,058; Jan. 18; v. 282; p. 556.
- Hair-tonic and a preparation to straighten obstinate hair. Mrs. A. Battis. No. 146,950; Sept. 27; v. 290; p. 803.
- Hair-tonic and medicinal scalp treatment. W. A. Dedrick. No. 148,646; Nov. 22.
- Hair tonic and restorer. M. Moschenross. No. 143,406; May 31; v. 286; p. 1051.
- Hair tonic and dressing, dandruff-extractor, &c. C. Waller. No. 143,765; June 7; v. 287; p. 188.
- Hair-tonic, dandruff-remover, toilet water. S. G. Hays. No. 141,375; Apr. 19; v. 285; p. 567.
- Hair tonic, grower, and gloss scalp and skin balms, Face-cream, talcum powder. Mrs. Elizabeth V. W. Blake. No. 145,044; July 26; v. 288; p. 811.
- Hair-tonic, Liquid. Robert Tardone & Son. No. 143,193; May 24; v. 286; p. 852.
- Hair-tonic, pomade, and cold-cream. Sen-Rayto Co. No. 143,465; May 31; v. 286; p. 1053.
- Hair-tonic, shampoo, &c. Mrs. N. A. Franklin. No. 145,670; Aug. 16; v. 289; p. 593.
- Hair-tonic, shampoo, hair-cleanser. Strohmeyer & Arpe Company. No. 144,638; July 12; v. 288; p. 426.
- Hair-tonic perfume, rouge, &c. H. W. Brizman. No. 146,186; Sept. 6; v. 290; p. 198.
- Hair-tonics. Colgate & Co. No. 144,990; July 19; v. 288; p. 626.
- Hair-tonics. B. S. Fields. No. 138,616; Jan. 4; v. 282; p. 186.
- Hair-tonics. L. F. Love. No. 139,829; Feb. 22; v. 283; p. 753.
- Hair-tonics. Waukegan Drug Company. No. 143,220; May 24; v. 286; p. 852.
- Hair-tonics. Yvette Co. No. 146,412; Sept. 6; v. 290; p. 204.
- Hair-tonics and scalp-dressings. Atlanta Barbers' Supply Co. No. 144,987; July 19; v. 288; p. 625.
- Hair wash, Golden. Charles Marchand Co. No. 144,604; July 12; v. 288; p. 425.
- Hair-waving device, Electric permanent. C. Nessler. No. 142,219; May 3; v. 286; p. 192.
- Hair-waving fluids. L. M. Garrity & Co. No. 145,672; Aug. 16; v. 289; p. 593.
- Hairpins. E. B. Dewey. No. 149,033; Dec. 6.
- Hairpins. B F K Manufacturing Company. No. 147,547; Oct. 25.
- Hairpins. J. A. Migel, Inc. Nos. 138,671-2; Jan. 4; v. 282; p. 188.
- Hairpins. J. A. Migel, Inc. No. 142,042; May 3; v. 286; p. 188.
- Hairpins. Pacific Novelty Company. No. 148,196; Nov. 8.
- Hairpins. Penn Rivet Corporation. No. 143,424; May 31; v. 286; p. 1051.
- Hairpins, lacings, snap-fasteners, &c. A. C. Fischer. No. 138,617; Jan. 4; v. 282; p. 186.
- Halters, surcingles, girths, &c. The Russell Manufacturing Company. No. 146,856; Sept. 20; v. 290; p. 637.
- Halters, surcingles, girths, &c. The Russell Manufacturing Company. No. 148,248; Nov. 8.
- Hammers and wrenches. Henry Cheney Hammer Corporation. No. 149,649; Dec. 20.
- Hammers, hatchets, axes, and sledges. Fayette R. Plumb, Inc. No. 140,460; Mar. 15; v. 284; p. 583.
- Hammers, hatchets, files, handsaws, &c. Consolidated Tool Works Inc. No. 148,805; Nov. 29.
- Hammers, Power-. Nazel Engineering & Machine Works. No. 141,187; Apr. 12; v. 285; p. 132.
- Hammers, sledges, &c. Handles for. Factory Supply Company. No. 144,213; June 28; v. 287; p. 774.
- Hammocks. I. E. Palmer Co. No. 148,199; Nov. 8.
- Hammocks, Couch. New England Bedding Company. No. 144,252; June 28; v. 287; p. 776.
- Hammocks, Couch-. I. E. Palmer Co. Nos. 147,365-6; Oct. 11.
- Hampers, waste-baskets, &c. Knockdown clothes-. C. H. Smith. No. 148,274; Nov. 8.
- Hams, bacon, and lard. F. E. Patrick-Young Co. No. 139,862; Feb. 22; v. 283; p. 754.
- Hams, bacon, and lard. F. E. Patrick-Young Co. No. 143,708; June 7; v. 287; p. 186.
- Hams, bacon, and lard. Patrick-Young Co. No. 150,047; Dec. 27.
- Hams, bacon, rolled shoulders, lard. Hansen Packing Company. No. 139,316; Feb. 1; v. 283; p. 169.
- Hams, bacon, shoulders, &c. E. Kahn's Sons Company. No. 141,583; Apr. 26; v. 285; p. 780.
- Hand, steam, and hydraulic steering-gears and propellers. Hyde Windlass Company. No. 140,612; Mar. 22; v. 284; p. 745.
- Hand-tools. H. D. Smith & Company. No. 144,145; June 21; v. 287; p. 590.
- Handkerchiefs. Adams - Bach Hdkf. Mfg. Co. No. 146,154; Sept. 6; v. 290; p. 197.
- Handkerchiefs. Cluett, Peabody & Co. No. 146,199; Sept. 6; v. 290; p. 198.
- Handkerchiefs. Cluett, Peabody & Co. No. 147,966; Nov. 8.
- Handkerchiefs. H. Engel & Sons. No. 149,668; Dec. 20.
- Handkerchiefs. Long Handkerchief Co. No. 143,812; June 7; v. 287; p. 192.
- Handkerchiefs. Long Handkerchief Co. No. 143,861; June 14; v. 287; p. 401.
- Handkerchiefs. Slonim Brothers. Nos. 139,393-4; Feb. 1; v. 283; pp. 171-2.
- Handkerchiefs, Cotton. United Turkey Red Company. No. 149,534; Dec. 13.
- Handles, knobs, pulls, Enameled. American Enamel Company. No. 139,751; Feb. 22; v. 283; p. 751.
- Hardware. Earle Hardware Manufacturing Co. No. 142,992; May 24; v. 286; p. 845.
- Hardware. Herbert Terry & Sons. No. 144,066; June 21; v. 287; p. 582.
- Hardware. The Yale & Towne Mfg. Co. No. 139,056; Jan. 18; v. 282; p. 556.
- Hardware. The Yale & Towne Mfg. Co. No. 140,473; Mar. 15; v. 284; p. 584.
- Hardware and bath-room accessories. Adams and Westlake Company. No. 144,333; July 5; v. 288; p. 191.
- Hardware articles, household and culinary utensils. Harper & McIntire Company. No. 139,810; Feb. 22; v. 283; p. 753.
- Hardware, Certain. Banister & Pollard. No. 146,428; Sept. 6; v. 290; p. 207.
- Hardware for drapery, furniture, and upholstery. H. L. Judd Company. No. 143,985; June 21; v. 287; p. 580.
- Hardwood dimension-stock. J. Elwood Cox Mfg. Co. No. 145,342; Aug. 2; v. 289; p. 178.
- Harmonicas. Sherman, Clay & Co. No. 144,931; July 19; v. 288; p. 622.
- Harmonicas or mouth-organs. Sherman, Clay & Co. No. 146,358; Sept. 6; v. 290; p. 203.
- Harness. Waterloo Saddlery Company. No. 146,620; Sept. 13; v. 290; p. 423.
- Harness, horse-collars, saddles, &c. McIntyre-Burrall Company. No. 139,685; Feb. 8; v. 283; p. 357.
- Harness, riding-saddles, horse-collars, &c. Simmons Hardware Company. No. 142,592; May 10; v. 286; p. 411.
- Harrow, Spiral. Dubuque Spiral Harrow Co. No. 138,807; Jan. 11; v. 282; p. 376.
- Harrows. W. Homer. No. 139,552; Feb. 8; v. 283; p. 351.
- Hat-bandeau. Dé Leon Bandeau Co. No. 148,758; Nov. 22.
- Hat-covers and ladies' and children's hats. Hedges & Gray. No. 140,605; Mar. 22; v. 284; p. 745.
- Hat-trimming material in the piece woven from horsehair and tinsel. Manhattan Hair Cloth Co. No. 140,627; Mar. 22; v. 284; p. 745.
- Hats. Chicago Mercantile Company. No. 149,013; Dec. 6.
- Hats. De Luxe Cap Co. No. 147,776; Nov. 1.
- Hats. Joseph Loeb Company. No. 143,675; June 7; v. 287; p. 185.
- Hats. C. S. Katz. No. 141,395; Apr. 19; v. 285; p. 567.
- Hats and bonnets, Ladies'. M. E. Baker. No. 138,567; Jan. 4; v. 282; p. 185.
- Hats and caps. E. Byrnes. No. 148,368; Nov. 15.



*Alphabetical list of trade-marks—Continued.*

- Hats and caps. Goswado Manufacturing Company. No. 141,362; Apr. 19; v. 285; p. 566.
- Hats and caps. R. H. Macy & Co. No. 147,233; Oct. 4.
- Hats and caps. Modern Cap Mfg. Company. No. 148,166; Nov. 8.
- Hats and caps. M. Rappaport. No. 141,606; Apr. 26; v. 285; p. 781.
- Hats and caps, Felt. John B. Stetson Company. Nos. 145,824-6; Aug. 16; v. 289; p. 598.
- Hats and caps, Felt. John B. Stetson Company. No. 147,464; Oct. 18.
- Hats and caps for men. R an W Hat Shop. No. 140,943; Mar. 29; v. 284; p. 947.
- Hats and caps for men. R an W Hat Shop. No. 142,720; May 17; v. 286; p. 632.
- Hats and caps, Men's and boys'. Hatter's Clearing House. No. 143,636; June 7; v. 287; p. 184.
- Hats and caps for men and boys. John B. Stetson Company. No. 139,746; Feb. 15; v. 283; p. 544.
- Hats and caps for men and boys. John B. Stetson Company. Nos. 143,184-5; May 24; v. 286; p. 851.
- Hats and caps for men and boys. T. W. Stevenson Company. No. 147,414; Oct. 11.
- Hats and caps for men and boys. Syracuse Cap Mfg. Co. No. 140,990; Mar. 29; v. 284; p. 949.
- Hats and caps, Men's and boys'. Warren & Campbell. No. 143,527; May 31; v. 286; p. 1056.
- Hats and caps for men and boys, Felt. John B. Stetson Company. No. 143,525; May 31; v. 286; p. 1056.
- Hats and caps for men, women, and children. Etchison Hat Company. No. 148,400; Nov. 15.
- Hats and caps, Men's and boys'. Fine & Levy. No. 147,847; Nov. 1.
- Hats and caps, Men's and boys'. Jacobsohn and Schwager. No. 140,613; Mar. 22; v. 284; p. 745.
- Hats and caps, Soft and stiff felt. J. B. Stetson Company. Nos. 139,959-60; Feb. 22; v. 283; p. 761.
- Hats and hat-frames. Robinson Straus & Co. No. 145,584; Aug. 9; v. 289; p. 408.
- Hats and hat-frames. Robinson Straus & Co. No. 145,827; Aug. 16; v. 289; p. 598.
- Hats, caps, and bonnets, Ladies' and men's. Smart Millinery Shop. No. 143,170; May 24; v. 286; p. 851.
- Hats for female wear. Emporium-World Millinery Co. Nos. 145,658-9; Aug. 16; v. 289; p. 593.
- Hats for men and women. H. S. Morand. No. 145,750; Aug. 16; v. 289; p. 596.
- Hats for women and children. Ogus, Rabinovich & Ogus Co. No. 144,909; July 19; v. 288; p. 622.
- Hats for women and children. Vogel Bros. Hat Co. No. 143,763; June 7; v. 287; p. 188.
- Hats, Girls'. May Evelyn Hat Co. No. 149,159; Dec. 6.
- Hats, Ladies'. Harry Solomons & Son. No. 144,941; July 19; v. 288; p. 623.
- Hats, Ladies'. Kays Millinery Company. No. 147,342; Oct. 11.
- Hats, Ladies'. K. G. Siegelstein. No. 141,438; Apr. 19; v. 285; p. 569.
- Hats, Ladies'. L. D. Sultzzer Co. No. 143,753; June 7; v. 287; p. 187.
- Hats, Ladies' and children's. Vall Hat Co. No. 144,078; June 21; v. 287; p. 583.
- Hats, Ladies', misses', and children's. Savannah Millinery & Supply Co. No. 142,748; May 17; v. 286; p. 633.
- Hats, Ladies' trimmed. Laurel Hat Co. No. 143,664; June 7; v. 287; p. 185.
- Hats, Men's. F. Berg & Co. No. 142,449; May 17; v. 286; p. 624.
- Hats, Men's. E. Lustig. No. 147,869; Nov. 1.
- Hats, Men's. R. H. Macy & Co. No. 143,681; June 7; v. 287; p. 185.
- Hats, Men's. McKibbin, Driscoll & Dorsey. No. 144,838; July 19; v. 288; p. 620.
- Hats, Men's. McKibbin, Driscoll & Dorsey. No. 145,736; Aug. 16; v. 289; p. 595.
- Hats, Men's. Parrote, McIntyre & Co. No. 142,701; May 17; v. 286; p. 632.
- Hats, Men's and women's. Davis-Pope Company. No. 149,309; Dec. 6.
- Hats, Men's, women's, and children's. A. Cohan. No. 149,308; Dec. 6.
- Hats, Oiled. A. J. Tower Company. No. 140,303; Mar. 8; v. 284; p. 374.
- Hats, Soft, stiff, and velour. Murphy-Gorman Company. No. 147,238; Oct. 4.
- Hats, Straw. Harris-Polk Hat Company. No. 143,806; June 7; v. 287; p. 191.
- Hats, Straw. The Townsend Grace Company. No. 141,253; Apr. 12; v. 285; p. 385.
- Hats, Trimmed. J. E. Snyder. No. 141,231; Apr. 12; v. 285; p. 384.
- Hats, Trimmed and tailored. Beerman-Fortgang-Doman. No. 148,354; Nov. 15.
- Hats, Trimmed and untrimmed. D. B. Fisk & Co. No. 142,369; May 10; v. 286; p. 408.
- Hats, Women's. Nathan and Gallo. No. 140,656; Mar. 22; v. 284; p. 746.
- Hats, Women's and children's. Ogus Rabinovich & Ogus Co. No. 149,191; Dec. 6.
- Hats, Women's and misses'. Aerial Hat Co. No. 141,067; Apr. 12; v. 285; p. 379.
- Hatbands, beltings, braids, &c. Columbia Ribbon Co. No. 147,570; Oct. 25.
- Hatbands, beltings, bows, &c. Economic Manufacturing Co. No. 138,613; Jan. 4; v. 282; p. 186.
- Hatbands, skirt and dress beltings, &c. The Owl Specialty Co. No. 138,846; Jan. 11; v. 282; p. 377.
- Hatpins. J. Brandt. No. 147,936; Nov. 8.
- Hatchets. Winchester Repeating Arms Co. No. 148,314; Nov. 8.
- Hay, Compressed. Galbraith & Co. No. 146,462; Sept. 6; v. 290; p. 210.
- Hay-presses. Adco Manufacturing Co. No. 143,881; June 21; v. 287; p. 577.
- Headlight-lenses. McKee Glass Company. No. 147,231; Oct. 4.
- Headlight lenses, Automobile-. The Day-Nite Corporation. No. 141,918; May 3; v. 286; p. 184.
- Headlight lenses or fronts. C. A. Shaler Co. No. 140,297; Mar. 8; v. 284; p. 373.
- Headlights and parts thereof, Electric. Alvo Manufacturing Co. No. 141,308; Apr. 19; v. 285; p. 565.
- Headlights, Electric. J. H. Laird. No. 148,881; Nov. 29.
- Healing and soothing salve for cuts, burns, &c. W. R. Hollingshead Company. No. 143,046; May 24; v. 286; p. 847.
- Healing-cream for piles, sores, &c. E. Hull. No. 141,973; May 3; v. 286; p. 185.
- Heart-stimulant. W. F. Severa Co. No. 147,161; Oct. 4.
- Heat-regulators, Thermostatic. Minneapolis Heat Regulator Co. Nos. 145,279-80; July 26; v. 288; p. 824.
- Heaters. Kelsey Heating Company. Nos. 146,491-2; Sept. 6; v. 290; p. 214.
- Heaters and furnaces, Hot-air and combined hot-air and hot-water. Estate of P. D. Beckwith, Inc. No. 149,045; Dec. 6.
- Heaters and furnaces using gas or oil, Steam, hot-water, and hot-air. H. M. Snow. No. 148,927; Nov. 29.
- Heaters and furnaces, Warm-air. International Heater Company. No. 146,649; Sept. 13; v. 290; p. 427.
- Heaters and parts thereof, Electrical. P. J. H. Bernard. No. 144,699; July 19; v. 288; p. 615.
- Heaters and ventilators. C. W. Sexton & Co. No. 139,390; Feb. 1; v. 283; p. 171.
- Heaters, Asphalt and tar. Kinney Manufacturing Company. Nos. 145,892-3; Aug. 16; v. 289; p. 602.
- Heaters, Certain vehicle-. Francisco Auto Heater Co. No. 147,212; Oct. 4.
- Heaters, Electric. E. L. Emerson. No. 141,542; Apr. 26; v. 285; p. 779.
- Heaters, Exhaust-gas motor-car. Perfection Heater & Manufacturing Co. No. 147,732; Oct. 25.
- Heaters for air, Electric. Universal Interests. No. 141,455; Apr. 19; v. 285; p. 569.
- Heaters, Gas or vapor. L. P. Lowe. No. 141,407; Apr. 19; v. 285; p. 568.
- Heaters, Gas water-. Bastian-Morley Co. Nos. 138,573-4; Jan. 4; v. 282; p. 185.
- Heaters, Gas water-. F. W. Shuell. No. 147,736; Oct. 25.
- Heaters, Hot-water. Flash Hot Water Heater Co. No. 146,736; Sept. 20; v. 290; p. 633.
- Heaters, Oil-. American Oil Burner Company. No. 148,979; Dec. 6.
- Heating and cooking apparatus and accessories thereof, Non-electrical. Richmond Radiator Company. No. 142,730; May 17; v. 286; p. 632.
- Heating and resistor elements, Electrical. E. L. Wiegand. No. 148,963; Nov. 29.
- Heating apparatus. Société Des Moteurs, Gnome Et Rhone. No. 139,395; Feb. 1; v. 283; p. 172.
- Heating appliances, Electric. Estate Stove Co. No. 139,714; Feb. 15; v. 283; p. 541.
- Heating apparatus, Gas. Estate Stove Company. No. 145,092; July 26; v. 288; p. 813.
- Heating-pads, Electric. Wirt Company. No. 142,847; May 17; v. 286; p. 636.
- Heating system and certain parts thereof. Vapor-Vacuum Heating Co. No. 146,521; Sept. 6; v. 290; p. 217.
- Heel and arch cushions for shoes. G. A. Stetson. No. 147,413; Oct. 11.
- Heel and toe plates. Booth Brothers (Dial Foundry). No. 147,551; Oct. 25.
- Heel-cushions. L. G. & S. S. Co. No. 145,721; Aug. 16; v. 289; p. 595.
- Heel-cushions and heel-cushion and instep raisers. L. G. & S. S. Co. No. 145,720; Aug. 16; v. 289; p. 595.
- Heel-lining repairers. L. G. & S. S. Co. No. 143,253; May 24; v. 286; p. 857.
- Heel-lining repairers. L. G. & S. S. Co. No. 145,726; Aug. 16; v. 289; p. 595.
- Heel-plates for rubber heels, and heel and toe plates for boots and shoes. Winner Mfg. Co. No. 139,914; Feb. 22; v. 283; p. 756.
- Heels and tread-lifts thereof, Metal. Cinderella Heel Corporation. No. 149,880; Dec. 27.
- Heels for boots and shoes. J. D. Prince. No. 146,552; Sept. 6; v. 290; p. 220.
- Heels for shoes, Rubber, &c. M. C. Schmidt. No. 140,055; Mar. 1; v. 284; p. 178.
- Henna-leaves. S. B. Penick & Company. No. 139,863; Feb. 22; v. 283; p. 754.
- Henriettas, black dress goods, and cashmeres. W. W. Roycroft & Co. No. 146,348; Sept. 6; v. 290; p. 203.
- Herbs for seasoning, Dried. Frank H. Lockyer Supply Co. Limited. No. 138,832; Jan. 11; v. 282; p. 377.
- Hides. A. F. Rees. No. 149,796; Dec. 20.



*Alphabetical list of trade-marks—Continued.*

- Hides and leather. Kullman, Salz & Co. No. 141,999; May 3; v. 286; p. 186.
- Hinges. Newport Optical Manufacturing Company. No. 145,281; July 26; v. 288; p. 824.
- Hinges, Check-. Shelby Metal Products Co. No. 142,331; May 10; v. 286; p. 406.
- Hinges for doors, sashes, &c. W. L. Evans, Jr. No. 144,116; June 21; v. 287; p. 587.
- Hoes, cultivators, and plows, Combination wheeled. J. E. Gilson. No. 147,608; Oct. 25.
- Hoes, machetes, axes, cold-rolled shafting. Corning International Corporation. No. 149,021; Dec. 6.
- Hoes, rakes, forks, shovels, &c. Van Camp Hardware & Iron Company. No. 139,103; Jan. 18; v. 282; p. 561.
- Hog-cholera medicine. M. Bodendick. No. 148,362; Nov. 15.
- Hog-cholera, Preparation for use in treatment of. I. Norington. No. 140,184; Mar. 8; v. 284; p. 366.
- Hog-cholera, Serum for prevention of. Denver Hog Serum Company. No. 142,979; May 24; v. 286; p. 845.
- Hog houses and feeders, Knockdown. B. L. Ellis Manufacturing Company. No. 140,377; Mar. 15; v. 284; p. 581.
- Hoists. The Denver Rock Drill Manufacturing Company. No. 138,804; Jan. 11; v. 282; p. 376.
- Hoists and heads, jibs, and other parts and accessories therefor. Gillis & Geoghegan. No. 143,954; June 21; v. 287; p. 579.
- Hoists, engines, winches, &c. Certain. J. S. Mundy Hoisting Engine Co. No. 149,705; Dec. 20.
- Holland, Beetled window-. Interstate Shade Cloth Co. No. 145,271; July 26; v. 288; p. 823.
- Hominy, pancake-flour, breakfast food, &c. Pearl-. Yucon Mill & Grain Co. No. 142,908; May 17; v. 286; p. 643.
- Honey. R. D. Bradshaw. No. 146,696; Sept. 20; v. 290; p. 632.
- Honey. R. A. Bray. No. 141,325; Apr. 19; v. 285; p. 565.
- Honey. California Honey Producers Cooperative Exchange. No. 140,090; Mar. 8; v. 284; p. 363.
- Honey. California Honey Producers Cooperative Exchange. No. 142,462; May 17; v. 286; p. 625.
- Honey. Cloverland Apiaries Co. No. 141,519; Apr. 26; v. 285; p. 778.
- Honey. The Foster Honey & Mercantile Co. No. 140,594; Mar. 22; v. 284; p. 744.
- Honey. Griggs Bros Co. No. 147,852; Nov. 1.
- Honey. J. S. Gross. No. 142,551; May 17; v. 286; p. 627.
- Honey. Superior Honey Company. No. 147,886; Nov. 1.
- Honey and honey in the comb, Extracted. J. C. McCubbin. No. 139,160; Jan. 25; v. 282; p. 734.
- Honey, Comb and extracted. Wisconsin Honey Farm. No. 149,295; Dec. 6.
- Honey, orange jelly and jam, &c. M. H. Schwinger. No. 148,266; Nov. 8.
- Hoof-pads. Federal Rubber Company. No. 142,521; May 17; v. 286; p. 626.
- Hooks, Grass-. Wiebusch & Hilger. No. 145,866; Aug. 16; v. 289; p. 599.
- Hoops, Wire and steel or iron. John Dunn, Son & Co. No. 146,214; Sept. 6; v. 290; p. 199.
- Hops. Burger Bros. Company, The. No. 142,951; May 24; v. 286; p. 844.
- Hops. Standard Imports Limited. No. 141,239; Apr. 12; v. 285; p. 384.
- Horns, Electric. Schwarze Electric Company. No. 149,731; Dec. 20.
- Horns, Mechanically-operated automobile-. Guiterman, Rosenfeld & Company. No. 138,632; Jan. 4; v. 282; p. 187.
- Horse feed, Omaha Alfalfa Milling Company. No. 147,878; Nov. 1.
- Horseshoe-nails, Cold-rolled. Fowler Nail Co. Nos. 149,062-3; Dec. 6.
- Horseshoes and horseshoe-calks. Bryden Horse Shoe Co. No. 149,645; Dec. 20.
- Horseshoes and horseshoe-calks. Neverslip Manf. Co. No. 149,709; Dec. 20.
- Hose. B. F. Goodrich Company. No. 147,610; Oct. 25.
- Hose. B. F. Goodrich Company. No. 148,419; Nov. 15.
- Hose. F. A. Patrick & Co. No. 138,853; Jan. 11; v. 282; p. 377.
- Hose. Whitehead Bros. Rubber Co. No. 145,864; Aug. 16; v. 289; p. 599.
- Hose and belting. The B. F. Goodrich Company. No. 139,307; Feb. 1; v. 283; p. 169.
- Hose and pump-valves. The B. F. Goodrich Company. No. 139,308; Feb. 1; v. 283; p. 169.
- Hose and sweaters for boys. Hand Knit Hosiery Co. No. 145,683; Aug. 16; v. 289; p. 594.
- Hose, belting, gaskets, packings, valves, tires. Hudson Mechanical Rubber Co. Nos. 142,206-9; May 3; v. 286; p. 192.
- Hose-clamps. C. Vitek. No. 148,297; Nov. 8.
- Hose, dredging-sleeves, and machinery-packing. B. F. Goodrich Company. No. 149,425; Dec. 13.
- Hose, Rubber. Voorhees Rubber Mfg. Co. No. 139,046; Jan. 18; v. 282; p. 556.
- Hose, Rubber, and fabric. The B. F. Goodrich Company. No. 139,306; Feb. 1; v. 283; p. 169.
- Hose, Rubber and fabric. United States Rubber Company. No. 142,342; May 10; v. 286; p. 406.
- Hose-supporters. R. J. Cavalier. No. 139,265; Feb. 1; v. 283; p. 168.
- Hose-supporters. C. W. Egerton. No. 138,614; Jan. 4; v. 282; p. 186.
- Hose, underwear, and knitted sweaters. Brummel & Mendelsohn. Nos. 147,557-8; Oct. 25.
- Hose, Women's and children's. Brown Durrell Co. No. 140,761; Mar. 29; v. 284; p. 942.
- Hose, Women's and misses'. I. Michelsohn. No. 147,641; Oct. 25.
- Hosiery. American Dry Goods Company of New York. No. 145,594; Aug. 16; v. 289; p. 591.
- Hosiery. Art Knit Hosiery Company. No. 147,267; Oct. 11.
- Hosiery. Beacon Falls Rubber Shoe Company. No. 145,604; Aug. 16; v. 289; p. 591.
- Hosiery. J. R. Beaton Co. No. 138,773; Jan. 11; v. 282; p. 375.
- Hosiery. Berendsen Silk Co. No. 139,924; Feb. 22; v. 283; p. 757.
- Hosiery. Berks Knitting Company. No. 148,996; Dec. 6.
- Hosiery. J. C. Bossong. No. 147,934; Nov. 8.
- Hosiery. E. Byrnes. No. 148,419; Nov. 15.
- Hosiery. Cardinal Mills. No. 149,009; Dec. 6.
- Hosiery. Carlton Trading Company. No. 144,713; July 19; v. 288; p. 616.
- Hosiery. Chipman Knitting Mills. No. 142,958; May 24; v. 286; p. 844.
- Hosiery. Chipman Knitting Mills. No. 143,792; June 7; v. 287; p. 190.
- Hosiery. Chipman Knitting Mills. No. 144,720; July 19; v. 288; p. 616.
- Hosiery. Chipman Knitting Mills. No. 145,628; Aug. 16; v. 289; p. 592.
- Hosiery. Chipman Knitting Mills. No. 147,842; Nov. 1.
- Hosiery. Daisy Whitehead Knitting Co. No. 142,974; May 24; v. 286; p. 845.
- Hosiery. Dalton Hosiery Mills. No. 142,198; May 3; v. 286; p. 192.
- Hosiery. Davenport Hosiery Mills. No. 139,284; Feb. 1; v. 285; p. 165.
- Hosiery. Dollfus Mieg & Cie. Societe Anonyme. Nos. 147,587-8; Oct. 25.
- Hosiery. Durham Hosiery Mills. No. 147,845; Nov. 1.
- Hosiery. George Borgfeldt & Co. No. 145,045; July 26; v. 288; p. 811.
- Hosiery. Glidden-Hyde Co. No. 142,204; May 3; v. 286; p. 192.
- Hosiery. Goodman Hosiery Mills. No. 147,851; Nov. 1.
- Hosiery. Goodman Hosiery Mills. No. 149,080; Dec. 6.
- Hosiery. Great American Knitting Mills, Inc. No. 142,549; May 17; v. 286; p. 627.
- Hosiery. S. Half & Co. No. 149,093; Dec. 6.
- Hosiery. Heminway & Bartlett Silk Co. No. 143,975; June 21; v. 287; p. 580.
- Hosiery. Higginbotham-Bailey-Logan Company. No. 141,964; May 3; v. 286; p. 185.
- Hosiery. Hudson Hosiery Co. No. 145,117; July 26; v. 288; p. 814.
- Hosiery. Ideal Hosiery Mills. No. 143,853; June 14; v. 287; p. 400.
- Hosiery. John M. Given, Inc. No. 141,944; May 3; v. 286; p. 184.
- Hosiery. John M. Given Co. No. 143,616; June 7; v. 287; p. 183.
- Hosiery. S. Kaufman. No. 145,705; Aug. 16; v. 289; p. 594.
- Hosiery. King & Company. No. 148,109; Nov. 8.
- Hosiery. King & Company. No. 148,681; Nov. 22.
- Hosiery. La Mode Mills. No. 149,317; Dec. 6.
- Hosiery. Lebeis Hosiery Company. No. 141,766; Apr. 26; v. 285; p. 789.
- Hosiery. H. D. Leimbach. No. 145,714; Aug. 16; v. 289; p. 594.
- Hosiery. Louis Stix Co. No. 147,699; Oct. 25.
- Hosiery. S. Mann. No. 144,432; July 5; v. 288; p. 194.
- Hosiery. F. Mann. No. 147,355; Oct. 11.
- Hosiery. I. Matison. No. 147,874; Nov. 1.
- Hosiery. S. S. Miller. No. 141,780; Apr. 26; v. 285; p. 790.
- Hosiery. Notaseme Hosiery Company. No. 141,793; Apr. 26; v. 285; p. 791.
- Hosiery. E. A. Patrick & Co. No. 142,083; May 3; v. 286; p. 189.
- Hosiery. Penn Rivet Corporation. No. 143,711; June 7; v. 287; p. 186.
- Hosiery. Pittsburgh Dry Goods Company. No. 148,706; Nov. 22.
- Hosiery. Regal Hosiery Co. No. 140,670; Mar. 22; v. 284; p. 747.
- Hosiery. H. K. Regar & Sons. No. 145,576; Aug. 9; v. 289; p. 408.
- Hosiery. M. Rounick. No. 148,945; Nov. 29.
- Hosiery. Southern Export Corporation. No. 144,060; June 21; v. 287; p. 582.
- Hosiery. Spatz and Spannuth, Inc. No. 140,684; Mar. 22; v. 284; p. 747.
- Hosiery. Surpass Hosiery Co. No. 149,254; Dec. 6.
- Hosiery. True Shape Hosiery Co. No. 147,252; Oct. 4.
- Hosiery. United Hosiery Company. No. 149,272; Dec. 6.
- Hosiery. A. V. Victorius & Company. No. 140,690; Mar. 22; v. 284; p. 747.
- Hosiery. A. V. Victorius & Company. No. 142,163; May 3; v. 286; p. 191.



*Alphabetical list of trade-marks—Continued*

- Hosiery. A. V. Victorius & Company. No. 145,849; Aug. 16; v. 289; p. 599.
- Hosiery. A. V. Victorius & Company. No. 148,293; Nov. 8.
- Hosiery. Watts, Ritter & Company. No. 148,303; Nov. 8.
- Hosiery. Wayne Knitting Mills. No. 147,890; Nov. 1.
- Hosiery. Wearweve Fabrics Corporation. No. 147,715; Oct. 25.
- Hosiery. Western Dry Goods Co. No. 141,717; Apr. 26; v. 285; p. 784.
- Hosiery. Wolfinger Knitting Mills. No. 141,464; Apr. 19; v. 285; p. 569.
- Hosiery. Wolfinger Knitting Mills. No. 148,560; Nov. 15.
- Hosiery. A. A. Wuest. No. 141,721; Apr. 26; v. 285; p. 784.
- Hosiery. Zeittel & Zuckerbraun. No. 148,563; Nov. 15.
- Hosiery and knitted underwear. Lax & Burghelmer Corporation. No. 141,765; Apr. 26; v. 285; p. 789.
- Hosiery and knitted underwear. Perfection Mills, Inc. No. 145,775; Aug. 16; v. 289; p. 596.
- Hosiery and knitted underwear. E. M. Townsend & Co. No. 142,796; May 17; v. 286; p. 635.
- Hosiery and underwear. Bodek & Entlich. No. 140,560; Mar. 22; v. 284; p. 743.
- Hosiery and underwear. International Clearing House. No. 140,842; Mar. 29; v. 284; p. 944.
- Hosiery and underwear. A. Kommel & Son. No. 142,660; May 17; v. 286; p. 630.
- Hosiery and underwear. Munsingwear Corporation. Nos. 145,752-3; Aug. 16; v. 289; p. 596.
- Hosiery and underwear. Munsingwear Corporation. No. 147,373; Oct. 11.
- Hosiery and underwear. Neverset Hosiery Mills. No. 148,907; Nov. 29.
- Hosiery and underwear for men and women. Realsilk Fabrics Corporation. No. 146,499; Sept. 6; v. 290; p. 215.
- Hosiery, Boys'. Pennsylvania Knitting Mills Co. No. 140,929; Mar. 29; v. 284; p. 947.
- Hosiery, Boys' and misses'. Pennsylvania Knitting Mills Company. No. 143,132; May 24; v. 286; p. 850.
- Hosiery, Dyed. W. Raven & Co. No. 147,673; Oct. 25.
- Hosiery for men and ladies. I. C. Eberly. No. 144,751; July 19; v. 288; p. 617.
- Hosiery, knit underwear, sweaters. A. Kobb. No. 148,116; Nov. 8.
- Hosiery, Ladies'. Berendsen Silk Co. No. 147,838; Nov. 1.
- Hosiery, Ladies'. Chipman Knitting Mills. No. 147,956; Nov. 8.
- Hosiery, Ladies' and children's. Walton Hosiery Mills. No. 148,958; Nov. 29.
- Hosiery, Ladies' and men's. Hoover Hosiery Company. No. 149,114; Dec. 6.
- Hosiery machinery. Volney W. Mason & Co. No. 145,148; July 26; v. 288; p. 815.
- Hosiery, Men's. F. J. Shurts & Co. No. 138,763; Jan. 4; v. 282; p. 192.
- Hosiery, neckties, &c. Beal-Burrow Dry Goods Co. No. 146,431; Sept. 6; v. 290; p. 207.
- Hosiery, underwear, and knitted sweaters. Brummel & Mendelsohn. Nos. 147,275-7; Oct. 11.
- Hosiery, underwear, sweaters. Kyle-Gettys Company. No. 145,711; Aug. 16; v. 289; p. 594.
- Hot-water bottles and bags, fountain-syringes, &c. Whitall Tatum Company. No. 143,839; June 7; v. 287; p. 194.
- House organ published at intervals. Refinite Company. No. 144,041; June 21; v. 287; p. 582.
- House organ published monthly. J. G. Brill Company. No. 147,938; Nov. 8.
- House organ published monthly. J. M. Walker. No. 144,082; June 21; v. 287; p. 583.
- Houses, Knockdown. Ray H. Bennett Lumber Co. No. 144,515; July 5; v. 288; p. 198.
- Household ammonia, bleaching fluid, bluing. G. N. Smith. No. 141,230; Apr. 12; v. 285; p. 384.
- Household and culinary utensils. Wire. National Mfg. Company. No. 139,853; Feb. 22; v. 283; p. 754.
- Household tools, Certain. Wickwire Spencer Steel Corporation. No. 150,175; Dec. 27.
- Hunstock, R. H. Chemical Co., St. Louis, Mo. Pills for biliousness, constipation, headaches, &c. No. 145,693; Aug. 16; v. 289; p. 594.
- Hydrants. Howard Iron Works. Nos. 144,238-9; June 28; v. 287; p. 775.
- Hydrastin solution. William S. Merrell Company. No. 142,024; May 3; v. 286; p. 187.
- Hydraulic transmissions. W. Ferris. Nos. 148,019-20; Nov. 8.
- Hydraulically pressed and hammered steel forgings. Titusville Forge Company. No. 145,237; July 26; v. 288; p. 817.
- Hydrometer apparatus. Steiner Manufacturing Company. No. 140,979; Mar. 29; v. 284; p. 949.
- Hypodermic needles, Flexible. Dr. L. O. Green. No. 146,472; Sept. 6; v. 290; p. 211.
- Hypophosphites, Compound of. William S. Merrell Company. No. 143,086; May 24; v. 286; p. 848.
- Hypophosphites, Compound syrup of. Davis & Lawrence Company. No. 140,362; Mar. 15; v. 284; p. 580.
- Ice. Chester Crystal Ice Company. No. 139,271; Feb. 1; v. 283; p. 168.
- Ice-cream. Anheuser-Busch. No. 143,535; June 7; v. 287; p. 181.
- Ice-cream. Beatrice Creamery Company. No. 145,605; Aug. 16; v. 289; p. 591.
- Ice-cream. Breyer Ice Cream Company. No. 144,355; July 5; v. 288; p. 191.
- Ice-cream. Breyer Ice Cream Company. No. 144,708; July 19; v. 288; p. 616.
- Ice-cream. Breyer Ice Cream Company. No. 145,616; Aug. 16; v. 289; p. 591.
- Ice-cream. Chapin-Sacks Corporation. No. 142,862; May 17; v. 286; p. 638.
- Ice-cream. Clover Creamery Company. No. 144,182; June 28; v. 287; p. 773.
- Ice-cream. Colonial Ice Cream Co. No. 142,474; May 17; v. 286; p. 625.
- Ice-cream. Dixie Ice Cream Company. No. 144,746; July 19; v. 288; p. 617.
- Ice-cream. Fayetteville Ice and Mfg. Co. No. 149,769; Dec. 20.
- Ice-cream. H. P. Hood & Sons. No. 144,230; June 28; v. 287; p. 775.
- Ice-cream. Huber Ice Cream Company. No. 146,485; Sept. 6; v. 290; p. 213.
- Ice-cream. A. P. McLendon. No. 143,719; June 7; v. 287; p. 186.
- Ice-cream. Puritan Ice Cream Co. No. 148,516; Nov. 15.
- Ice-cream. Remar Company. No. 148,521; Nov. 15.
- Ice-cream. D. D. Strickler. No. 144,671; July 12; v. 288; p. 429.
- Ice-cream. Tri-State Ice Cream Corporation. No. 149,524; Dec. 13.
- Ice-cream. W. B. Wood Mfg. Co. No. 138,747; Jan. 4; v. 282; p. 190.
- Ice-cream and butter. Columbia Dairy Products Company. No. 147,569; Oct. 25.
- Ice-cream and frozen custard. I. K. Friedman. No. 142,536; May 17; v. 286; p. 627.
- Ice-cream and merange powders. F. E. Richardson. No. 148,730; Nov. 22.
- Ice-cream, candy, chocolates, &c. E. L. Haines. No. 140,603; Mar. 22; v. 284; p. 745.
- Ice-cream cones. Cone Company of America. No. 145,341; Aug. 2; v. 289; p. 178.
- Ice-cream cones. Rueckheim Bros. & Eckstein. No. 144,900; July 19; v. 288; p. 621.
- Ice-cream cones or cornets. J. H. Dickhudt. No. 138,609; Jan. 4; v. 282; p. 186.
- Ice-cream freezers, &c. Miller Pasteurizing Machine Company. No. 145,513; Aug. 2; v. 289; p. 185.
- Ice-cream, frozen dainties, cake, &c. G. F. Kempen. No. 145,394; Aug. 2; v. 289; p. 179.
- Ice-cream, ices, and frozen custard, Shipping-containers for. W. F. Luick. No. 147,058; Sept. 27; v. 290; p. 808.
- Ice-cream, Preparations used in the manufacture of. Ogden Wholesale Drug Co. No. 145,428; Aug. 2; v. 289; p. 180.
- Ice-cream, water-ices, and sherbets. Gloria Ice Cream Company. No. 145,369; Aug. 2; v. 289; p. 179.
- Ice-creams and frozen desserts. Nucoa Butter Company. No. 145,987; Aug. 23; v. 289; p. 789.
- Ice-making and refrigerating machinery. Trick Company. No. 144,236; June 28; v. 287; p. 775.
- Ice-making and refrigerator machinery. Remington Machine Company. No. 146,852; Sept. 20; v. 290; p. 637.
- Ices, puddings, &c., and fillers for confectionery, &c., Dressings or sauces for. J. H. Sasse. No. 143,738; June 7; v. 287; p. 187.
- Ignition-magnetos, magneto brackets and push-rods, electrodes. Webster Electric Company. No. 141,304; Apr. 12; v. 285; p. 389.
- Impregnated or coated woven fabrics. Western Cartridge Company. No. 148,557; Nov. 15.
- Incense. E. F. Gomi. No. 143,026; May 24; v. 286; p. 846.
- Incense. E. F. Gomi. No. 143,965; June 21; v. 287; p. 579.
- Incinerators. Kerner Incinerator Company. No. 141,990; May 3; v. 286; p. 186.
- Incubators and brooders. American Incubator Manufacturing Co. No. 147,256; Oct. 11.
- Incubators, brooders, and galvanized hovers. Chicken. Queen Incubator Company. No. 149,718; Dec. 20.
- Incubators, Electric. Electric Controller Co. No. 141,540; Apr. 26; v. 285; p. 779.
- Index and bristol boards. Whiting Paper Company. No. 150,173; Dec. 27.
- Index, record, and filing systems, &c. Card. American Kardex Company. Nos. 147,257-60; Oct. 11.
- Indicators of revolution, speed-indicators, &c. E. Jaeger. No. 149,419; Dec. 13.
- Indicators, revolution-counters, draft-gages, Direction and revolution. McNab Company. No. 144,129; June 21; v. 287; p. 588.
- Indigo dyes and paste and Midland quick indigo. Gaston, Williams & Wigmore, Far Eastern Division. Nos. 143,345-6; May 31; v. 286; p. 1049.
- Indigo paste, Synthetic. Andersen, Meyer & Co. No. 141,482; Apr. 26; v. 285; p. 777.
- Induction apparatus, Stationary. General Electric Company. No. 148,044; Nov. 8.



## Alphabetical list of trade-marks—Continued.

- Induction-coils and wireless apparatus. Eugene T. Turney Laboratories, Incorporated. No. 145,842; Aug. 16; v. 289; p. 598.
- Ingots of non-ferrous alloys, bars and cylinders of bearing metal, &c. Eagle Brass Foundry Company. No. 145,082; July 26; v. 288; p. 813.
- Ingots of non-ferrous metal. Keystone Die Casting Co. No. 140,421; Dec. 13.
- Ingots of red and yellow brass. Ajax Metal Company. No. 143,232; May 24; v. 286; p. 853.
- Inhalers. G. Welch. No. 146,621; Sept. 13; v. 290; p. 423.
- Ink, Drawing and lettering. C. Howard Hunt Pen Company. No. 143,048; May 24; v. 286; p. 847.
- Ink-eradicator. American Lead Pencil Company. No. 140,070; Mar. 8; v. 284; p. 363.
- Ink-eradicator. M. C. Hamblet. No. 144,412; July 5; v. 288; p. 193.
- Ink for printing and lithographing. Colors used in. G. Siegle Company. Nos. 145,009-10; July 19; v. 288; p. 628.
- Ink for use in stencil-duplicating machines. L. F. Hofer. No. 142,569; May 17; v. 286; p. 628.
- Ink in powdered form, Indelible writing. L. Adam. No. 144,983; July 19; v. 288; p. 625.
- Ink reducer, Lithographic. Indiana Chemical & Manufacturing Company. No. 140,404; Mar. 15; v. 284; p. 582.
- Ink, Softener and drier for printers'. B. Link. No. 144,664; July 12; v. 288; p. 428.
- Ink, Writing. Bankers Security Ink Company. No. 139,706; Feb. 15; v. 283; p. 541.
- Ink, Writing. M. J. Wilson. No. 142,843; May 17; v. 286; p. 636.
- Inks and inking-material supplies. The National Marking Machine Company. Nos. 140,658-9; Mar. 22; v. 284; p. 746.
- Inks and ribbons and carbon-papers. Polygon Ink Company. No. 148,512; Nov. 15.
- Inks, Black and red. Citizens Wholesale Supply Company. No. 145,061; July 26; v. 288; p. 812.
- Inks, Indelible writing. United Drug Company. No. 139,655; Feb. 8; v. 283; p. 354.
- Inks, Printing. Jeanecke-Ault Company. No. 146,266; Sept. 6; v. 290; p. 200.
- Inks, Printing. Sigmund Ullman Co. No. 142,763; May 17; v. 286; p. 633.
- Inks, Reducing compound for lithographic and printing. Florasynth Laboratories. No. 143,336; May 31; v. 286; p. 1049.
- Inks, Steel-die printing. Ault & Wiborg Company of N. Y. No. 145,035; July 26; v. 288; p. 811.
- Inks, typewriter-ribbons, and inking-pads, Writing. Buxton & Skinner Printing and Stationery Company. No. 149,647; Dec. 20.
- Inks, Writing. W. E. Fites. No. 142,531; May 17; v. 286; p. 627.
- Inks, Writing. General Eclipse Co. No. 143,347; May 31; v. 286; p. 1049.
- Inner liners, tubes, boots, patches, and flaps. The National Sales Company. No. 142,066; May 3; v. 286; p. 188.
- Insect-destroying composition. Chamberlain-Haber Chemical Company. No. 141,736; Apr. 26; v. 285; p. 786.
- Insect-exterminator. Kenaski Bros. No. 144,423; July 5; v. 288; p. 193.
- Insect-exterminators, Chemical. International Chemical Company. No. 146,261; Sept. 6; v. 290; p. 200.
- Insect-powder. A. J. Archibald Co. No. 147,908; Nov. 8.
- Insect-powder. Frank Tea & Spice Co. No. 141,553; Apr. 26; v. 285; p. 779.
- Insect-powder. R. H. Hunstock Chemical Co. No. 145,694; Aug. 16; v. 289; p. 594.
- Insect-powders. McCormick & Co. No. 148,469; Nov. 15.
- Insects, flies, &c. Devices for killing and disabling. United States Wire Mat Co. No. 146,519; Sept. 6; v. 290; p. 217.
- Insecticide. N. H. Brown. No. 146,958; Sept. 27; v. 290; p. 803.
- Insecticide. Eli-No-Mo Manufacturing Company. No. 143,963; June 21; v. 287; p. 579.
- Insecticide. Heyers & Vanriper. No. 146,997; Sept. 27; v. 290; p. 804.
- Insecticide. I. J. Kinyon. No. 140,858; Mar. 29; v. 284; p. 945.
- Insecticide. L. G. Lane. No. 140,160; Mar. 8; v. 284; p. 365.
- Insecticide. Lebro Manufacturing Co. No. 142,006; May 3; v. 286; p. 186.
- Insecticide, disinfectant, and deodorizer. Bono Products Corporation. No. 145,932; Aug. 23; v. 289; p. 787.
- Insecticide for killing insects on poultry, &c. Wm. Peterman Inc. No. 142,088; May 3; v. 286; p. 189.
- Insecticide for the elimination of moths, Device for dispensing an. E. J. Reefer. No. 142,103; May 3; v. 286; p. 190.
- Insecticide, germicide, and antiseptic. S. E. Osborne. No. 148,192; Nov. 8.
- Insecticide, Liquid. M. H. King, Sr. No. 140,857; Mar. 29; v. 284; p. 945.
- Insecticide powders and liquids, disinfectants. K. Kovacs. No. 148,461; Nov. 15.
- Insecticides. M. F. Butcher. No. 138,952; Jan. 18; v. 282; p. 553.
- Insecticides. Corona Chemical Company. No. 138,958; Jan. 18; v. 282; p. 554.
- Insecticides. L. H. Fontaine. No. 146,091; Aug. 30; v. 289; p. 1014.
- Insecticides. Garden Chemical Company. No. 138,969; Jan. 18; v. 282; p. 554.
- Insecticides. E. S. Morris. No. 139,530; Feb. 8; v. 283; p. 350.
- Insecticides. W. H. Plunkett. No. 140,937; Mar. 29; v. 284; p. 947.
- Insecticides. Randall-McLoughlin Co. No. 139,871; Feb. 22; v. 283; p. 754.
- Insecticides. Richter Bros. No. 146,341; Sept. 6; v. 290; p. 202.
- Insecticides. St. Louis Insecticide. Nos. 148,540-1; Nov. 15.
- Insecticides. Sherwin-Williams Company. No. 144,632; July 12; v. 288; p. 425.
- Insecticides. G. B. Williams Co. No. 141,462; Apr. 19; v. 285; p. 569.
- Insecticides and disinfectants. R. A. Sims. No. 147,406; Oct. 11.
- Insecticides and germicides. Interstate Chemical Company. Nos. 141,577-8; Apr. 26; v. 285; p. 780.
- Insecticides and germicides. Interstate Chemical Company. No. 141,977; May 3; v. 286; p. 186.
- Insecticides, fungicides, &c., for plants. Morgan Chemical Corporation. No. 145,751; Aug. 16; v. 289; p. 596.
- Insecticides, fungicides, germicides, &c. Sherwin-Williams Company. No. 144,633; July 12; v. 288; p. 425.
- Insecticides, germicides, and related products. Charles H. Auerbach and Roy P. Auerbach. No. 149,826; Dec. 27.
- Insecticides, Liquid. John Paterson & Co. No. 150,046; Dec. 27.
- Insectifuge. Mentholum Company. No. 145,739; Aug. 16; v. 289; p. 595.
- Insoles. L. G. & S. S. Co. No. 145,722; Aug. 16; v. 289; p. 595.
- Insoles, Cushion. L. G. & S. S. Co. No. 145,723; Aug. 16; v. 289; p. 595.
- Insoles made of cardboard. M. De France. No. 143,314; May 31; v. 286; p. 1048.
- Insoling, Fabricated. Frank W. Whitchee Company. No. 142,224; May 3; v. 286; p. 192.
- Insoling, Fabricated. Frank W. Whitchee Company. Nos. 145,530-1; Aug. 2; v. 289; p. 187.
- Insoling, Fabricated. Frank W. Whitchee Company. No. 148,311; Nov. 8.
- Instruments and appliances of particular metals for laboratories. Rhotanium Company. Nos. 144,457-8; July 5; v. 288; pp. 194-5.
- Instruments of precision. Barr & Stroud. No. 146,174; Sept. 6; v. 290; p. 197.
- Insulated conductors and cables. Okonite Company. No. 147,802; Nov. 1.
- Insulated wire and cable. Illinois Wire & Cable Company. No. 144,418; July 5; v. 288; p. 193.
- Insulated wires and cables. Marion Insulated Wire & Rubber Co. No. 144,605; July 12; v. 288; p. 425.
- Insulated wires and cables, &c. Hazard Manufacturing Company. No. 144,578; July 12; v. 288; p. 424.
- Insulating compound for electrical apparatus, &c. Pittsburgh Transformer Company. No. 139,188; Jan. 25; v. 282; p. 735.
- Insulating compounds, Certain electric. Fibroc Insulation Company. No. 148,649; Nov. 22.
- Insulating-material. Ehret Magnesia Manufacturing Company. No. 143,325; May 31; v. 286; p. 1048.
- Insulating-sheeting. Keystone Hair Insulator Company. No. 144,592; July 12; v. 288; p. 424.
- Insulating supplies, Electric. Albert J. Cox Company. No. 144,374; July 5; v. 288; p. 192.
- Insulation, Coating for electric. Auto Specialties Company. No. 141,314; Apr. 19; v. 285; p. 565.
- Insulators, Electric. Jeffery-Dewitt Insulator Company. No. 144,588; July 12; v. 288; p. 424.
- Insulators, Porcelain. Lapp Insulator Company. No. 140,418; Mar. 15; v. 284; p. 582.
- Insulators, Porcelain. J. H. Parker & Son. No. 147,509; Oct. 18.
- Internal-combustion engines, carbureters, and parts thereof. Aktiebolaget Spritmotorer. No. 139,213; Jan. 25; v. 282; p. 736.
- Intestinal antiseptic and lubricant. L. H. Buck. No. 139,772; Feb. 22; v. 283; p. 751.
- Iodized emulsion. Dawson Pharmaceutical Company. No. 139,675; Feb. 8; v. 283; p. 356.
- Iron and metal sheets, Rust-resisting anticorrosive. The Berger Manufacturing Company. No. 141,863; May 3; v. 286; p. 182.
- Iron and steel. Federal Tool & Alloy Steel Corporation. Nos. 142,522-3; May 17; v. 286; p. 626.
- Iron and steel sheets. Whitaker-Glessner Company. Nos. 145,297-8; July 26; v. 288; p. 826.
- Iron and steel sheets and plates and tin andterne plates. American Sheet and Tin Plate Company. Nos. 142,854-5; May 17; v. 286; p. 637.
- Iron and steel sheets and plates and tin andterne plates. American Sheet and Tin Plate Company. No. 145,026; July 26; v. 288; p. 811.



- Iron and steel sheets and plates, &c., Rolled. American Sheet and Tin Plate Company. Nos. 147,469-73; Oct. 18.
- Iron, Bar-. Logan Iron & Steel Company. No. 138,833; Jan. 11; v. 282; p. 377.
- Iron chaplets, Gray-. S. Cheney & Son. No. 146,443; Sept. 6; v. 290; p. 208.
- Iron, ferro-alloys, and steel, Pig-. Hickman, Williams & Co. No. 140,040; Mar. 1; v. 284; p. 176.
- Iron in powder and plastic form for certain purposes, Comminuted. Smooth-On Manufacturing Company. No. 148,534; Nov. 15.
- Iron, of steel, and of alloys of iron, Certain products of. American Rolling Mill Company. No. 147,265; Oct. 11.
- Iron-salicylate compound. William S. Merrell Company. No. 143,088; May 24; v. 286; p. 848.
- Iron, steel, and alloys of iron, Products of. The American Rolling Mill Company. No. 139,474; Feb. 8; v. 283; p. 349.
- Ironing-boards. C. Danielson. No. 147,198; Oct. 4.
- Ironing-tools for millinery purposes. F. E. Kern. No. 142,654; May 17; v. 286; p. 630.
- Irrigation pipe and well-casing, Iron surface-. Robinson Hardware Co. No. 140,054; Mar. 1; v. 284; p. 178.
- Isinglass, gelatin, &c. L. P. Swinborne. Nos. 141,158-9; Apr. 12; v. 285; p. 382.
- Jacketed receptacles, Vacuum-. Stanley Insulating Company. No. 147,519; Oct. 18.
- Jackets, Heath. American Hosiery Company. No. 144,302; June 28; v. 289; p. 779.
- Jackets, one-piece outer suits, and overalls, Men's. L. H. Baker. No. 142,440; May 17; v. 286; p. 624.
- Jackets, vests, trousers, &c. S. Schneiders and Son. No. 141,216; Apr. 12; v. 285; p. 383.
- Jacks, Automatic automobile-. L. M. Fisher. No. 144,392; July 5; v. 288; p. 192.
- Jacks, Lifting-. Rowe Calk & Chain Company. No. 140,203; Mar. 8; v. 284; p. 367.
- Jacks, vises, wire-stretchers, wrenches, &c., Lifting-. Peerless Tool Company. No. 140,926; Mar. 29; v. 284; p. 947.
- Jam, Fruit. Puyallup & Sumner Fruit Growers Canning Company. No. 141,207; Apr. 12; v. 285; p. 383.
- Jam, jelly, &c. Welch Grape Juice Company. No. 145,478; Aug. 2; v. 289; p. 182.
- Jam, jelly, &c. Welch Grape Juice Company. Nos. 145,479-80; Aug. 2; v. 289; p. 182.
- Jams, jellies, chilli sauce, &c. Home Maid Products Company. No. 139,816; Feb. 22; v. 283; p. 753.
- Jar lids or caps, Fruit-. Schram Glass Manufacturing Co. No. 145,521; Aug. 2; v. 289; p. 186.
- Jar-rings. Amboy Products Co. No. 144,157; June 28; v. 287; p. 773.
- Jar rings, Fruit-. Sery-us Grocery Products Corporation. No. 141,673; Apr. 26; v. 285; p. 783.
- Jellies and jams, Red Wing Company. No. 145,182; July 26; v. 288; p. 816.
- Jellies, fruit preserves, jams, and sweet pickles. W. M. Spencer Sons Co. No. 145,462; Aug. 2; v. 289; p. 182.
- Jelly, Cranberry. E. F. Bills. No. 144,549; July 12; v. 288; p. 423.
- Jersey-cloth in the piece. M. Dorfman. No. 146,081; Aug. 30; v. 289; p. 1013.
- Jersey cloth in the piece. W. M. Levy. No. 148,887; Nov. 29.
- Jerseys, coat-sweaters, sweater-vests. American Wholesale Corporation. No. 139,060; Jan. 18; v. 282; p. 557.
- Jewelers' findings. M. S. Co. No. 145,162; July 26; v. 288; p. 815.
- Jewelry. B. A. Ballou & Co. No. 141,283; Apr. 12; v. 285; p. 387.
- Jewelry. Freeman-Daghaday Co. No. 143,007; May 24; v. 286; p. 846.
- Jewelry. Napier-Bliss Company. No. 144,870; July 19; v. 288; p. 621.
- Jewelry. Pels-Jones. No. 141,638; Apr. 26; v. 285; p. 782.
- Jewelry. W. Fuld. No. 140,126; Mar. 8; v. 284; p. 364.
- Jewelry. Société La Perle Saskia. No. 142,333; May 10; v. 286; p. 406.
- Jewelry. Warwick Novelties Inc. No. 141,816; Apr. 26; v. 285; p. 794.
- Jewelry. Wolfson Company. No. 142,848; May 17; v. 286; p. 636.
- Jewelry and flat hollow ware. Georg Jensens Sølvsmiede A/S. No. 148,928; Nov. 29.
- Jewelry and precious-metal ware. S. M. Einstein. No. 148,005; Nov. 8.
- Jewelry and precious-metal ware. J. Vander Zanden. No. 148,289; Nov. 8.
- Jewelry and silverware. Essayan Jewelry Company. No. 142,261; May 10; v. 286; p. 404.
- Jewelry and silverware. Master Jewelers. No. 140,482; Mar. 15; v. 284; p. 584.
- Jewelry and table and table hollow ware. Manufacturing Jewelers Export Company. No. 149,445; Dec. 13.
- Jewelry, Articles of. Cohn & Rosenberger. No. 141,098; Apr. 12; v. 285; p. 380.
- Jewelry, Articles of. Warneke & Hay Co. No. 147,714; Oct. 25.
- Jewelry, badges, emblems, medals, and trophies, Certain. Thomas D. Gard Co. No. 147,605; Oct. 25.
- Jewelry, Certain. Henry W. Fishel & Sons. Nos. 149,053-4; Dec. 6.
- Jewelry, Certain. L. H. Lewis Company. No. 148,137; Nov. 8.
- Jewelry, Certain. E. L. Logee Co. No. 147,634; Oct. 25.
- Jewelry for personal wear, match-cases, and purses. Karpeles Company. No. 139,999; Mar. 1; v. 284; p. 174.
- Jewelry, hollow and flat ware, &c. American Wholesale Corporation (Baltimore Bargain House). No. 142,187; May 3; v. 286; p. 192.
- Jewelry-mountings with prepared bearings. Arch Crown Mfg. Co. No. 139,062; Jan. 18; v. 282; p. 557.
- Jewelry, tableware, &c. Cartier, Inc. No. 144,363; July 5; v. 288; p. 192.
- Jewelry, toilet articles, desk-fittings, and photo-frames. Mount Royal Corporation. No. 140,904; Mar. 29; v. 284; p. 946.
- Jigs, fixtures, dies, &c. Mehl Machine Tool & Die Company. No. 139,163; Jan. 25; v. 282; p. 734.
- Johnson, Chester H., Anaheim, Calif. Dehydrated and concentrated citrus fruits. No. 148,099; Nov. 8.
- Joints and bolt-cutters. Universal. Universal Machine Company. No. 145,295; July 26; v. 288; p. 826.
- Joints, Universal. Bausch Machine Tool Company. No. 144,099; June 21; v. 287; p. 585.
- Journal, Monthly. Spice Mill Publishing Co. Nos. 143,748-9; June 7; v. 287; p. 187.
- Journal, Monthly. U. S. Bottlers Machinery Co. No. 145,472; Aug. 2; v. 289; p. 182.
- Journal-name. Mutual Homes Society. No. 144,015; June 21; v. 287; p. 581.
- Journal or paper, Trade. Ott-Heiskell Hardware Co. No. 147,364; Oct. 11.
- Journal published monthly. Edward Lyman Bill, Inc. No. 146,924; Sept. 20; v. 290; p. 641.
- Jute and cotton bats. Stearns & Foster Company. No. 146,885; Sept. 20; v. 290; p. 638.
- Kerosene. Sinclair Refining Company. No. 146,875; Sept. 20; v. 290; p. 637.
- Kerosene, Deodorized. Ultra Refined Crude Products Company. No. 138,882; Jan. 11; v. 282; p. 378.
- Keys and locks. Segal Lock & Hardware Co. No. 144,631; July 12; v. 288; p. 425.
- Kid. Oscar Scherer & Bro. No. 143,126; May 24; v. 286; p. 849.
- Kid, Glazed. Henwood & Nowak. No. 143,976; June 21; v. 287; p. 580.
- Kilns and ventilating apparatus therefor. The Sidmans. No. 142,127; May 3; v. 286; p. 190.
- Kit, Lunch. Goldee Mfg. Company. No. 139,541; Feb. 8; v. 283; p. 351.
- Kitchen and cooking utensils, Metallic. Manufacture Metallurgique de Tournay. No. 146,291; Sept. 6; v. 290; p. 201.
- Knife and tool sharpeners. S. Cheney & Son. No. 147,568; Oct. 25.
- Knife and tool sharpeners, Mower-. S. Cheney & Son. No. 144,105; June 21; v. 287; p. 586.
- Knives. Lamson & Goodnow Manufacturing Company. No. 141,764; Apr. 26; v. 285; p. 789.
- Knives and bayonets. Remington Arms Company. Nos. 142,106-7; May 3; v. 286; p. 190.
- Knives and forks, Handles for. Mappin & Webb. No. 150,000; Dec. 27.
- Knives and sharpening-steels. Regal Silver Mfg. Co. No. 145,575; Aug. 9; v. 289; p. 408.
- Knives, carving sets, scissors, &c. Société Anonyme des Anciens Etablissements Sabatier Père et Fils. No. 142,138; May 3; v. 286; p. 191.
- Knives, edge-tools, handles. Hyde Manufacturing Company. No. 144,585; July 12; v. 288; p. 424.
- Knives, forks, spatulas, carver-steels. J. H. Lickert. No. 147,229; Oct. 4.
- Knives, forks, spoons, &c., Table. A. T. H. Coward. No. 139,512; Feb. 8; v. 283; p. 350.
- Knives, Pocket-. Remington Arms Company. Nos. 143,436-8; May 31; v. 286; p. 1052.
- Knives, safety, pocket, and camp axes, Hunting and fish. Marble Arms & Mfg. Company. No. 147,234; Oct. 4.
- Knives, Sugar-cane. American Tractors Limited. No. 141,074; Apr. 12; v. 285; p. 379.
- Knit caps and toques. B. Oestreicher. No. 147,361; Oct. 11.
- Knit goods. David Harris & Eisner. No. 147,854; Nov. 1.
- Knit hosiery. Black Cat Textiles Company. No. 145,609; Aug. 16; v. 289; p. 591.
- Knit jackets. Morgan Knitting Mills. No. 143,820; June 7; v. 287; p. 192.
- Knit jackets, sweaters, and coats. Morgan Knitting Mills. No. 143,819; June 7; v. 287; p. 192.
- Knit underwear. Campe Corporation. No. 140,340; Mar. 15; v. 284; p. 580.
- Knit underwear for women. J. L. Hudson Co. No. 144,798; July 19; v. 288; p. 618.
- Knit union-suits, men's fine shirts, &c. Croft Stanard Company. No. 145,643; Aug. 16; v. 289; p. 592.
- Knit woolen cloth in the piece and overcoatings. Hugh Wallace Company. No. 143,250; May 24; v. 286; p. 856.



*Alphabetical list of trade-marks—Continued.*

- Knitted and stocking caps. Keller Knitting Company. No. 145,787; Aug. 16; v. 289; p. 597.
- Knitted and textile underwear and hosiery. Robert Rels & Co. No. 148,229; Nov. 8.
- Knitted and woven bloomers, vests, and union-suits. L. Bing. No. 148,359; Nov. 15.
- Knitted caps, Men's and boys'. Regent Knitting Corporation. No. 149,211; Dec. 6.
- Knitted cotton padding. Prosperity Company. No. 143,720; June 7; v. 287; p. 186.
- Knitted fabric underwear, Men's and women's. Adams & Kay. No. 142,404; May 17; v. 286; p. 623.
- Knitted fabrics of wool. Specialty Knit Goods Manufacturing Co. No. 141,685; Apr. 26; v. 285; p. 783.
- Knitted jackets. Grushlaw & Sichel. No. 143,031; May 24; v. 286; p. 846.
- Knitted, netted, and textile fabrics. Richardson Dry Goods Co. No. 139,619; Feb. 8; v. 283; p. 353.
- Knitted sleeping garments, Children's. M. E. Smith & Co. No. 142,769; May 17; v. 286; p. 634.
- Knitted sweaters and sweater-coats. Keller Knitting Company. No. 144,819; July 19; v. 288; p. 619.
- Knitted sweaters and sweater-coats. Marinette Knitting Mills. Nos. 139,086-7; Jan. 18; v. 282; p. 559.
- Knitted underwear. Norwich Knitting Company. No. 147,877; Nov. 1.
- Knitted underwear. G. Sommers & Co. No. 140,973; Mar. 29; v. 284; p. 948.
- Knitted underwear. Union Mills. No. 147,706; Oct. 25.
- Knitted underwear, hosiery, sweater and jersey coats. Penmans Limited. No. 148,914; Nov. 29.
- Knitted underwear, Ladies'. Carson Pirie Scott & Co. No. 144,362; July 5; v. 288; p. 192.
- Knitted underwear, Men's and boys'. Rogers Peet Company. No. 143,433; May 31; v. 286; p. 1052.
- Knitted underwear, Women's. Tamaqua Underwear Company. No. 139,409; Feb. 1; v. 283; p. 172.
- Knitted union-suits, Men's. Mitchell Manufacturing Co. No. 140,011; Mar. 1; v. 284; p. 174.
- Knitted woolen articles of clothing. H. W. Plant & Co. No. 147,807; Nov. 1.
- Knitting-machine sinkers. H. Stuebner. No. 146,373; Sept. 6; v. 290; p. 203.
- Knitting-machines. Hemphill Company. Nos. 140,827-9; Mar. 29; v. 284; p. 944.
- Knitting-machines, Latch-needles for. Geo. H. Arams Co. No. 148,969; Dec. 6.
- Knitting-needles, Flexible. W. H. Brown. No. 147,940; Nov. 8.
- Kumyss. Kumyss, Incorporated. No. 149,692; Dec. 20.
- Labels, Transparent meat-. Chemical Paper Company. No. 145,333; Aug. 2; v. 289; p. 178.
- Lace pieces, Hand-made. French American Import Co. No. 145,094; July 26; v. 288; p. 813.
- Laces and embroideries in the piece. Majestic Lace and Embry Works. No. 145,408; Aug. 2; v. 289; p. 180.
- Laces, Shoe-. J. Frier. No. 143,953; June 21; v. 287; p. 579.
- Laces, Shoe-. Laing, Harrar & Chamberlain. No. 140,278; Mar. 8; v. 284; p. 372.
- Laces, Shoe-. Providence Braid Company. No. 148,219; Nov. 8.
- Laces, Shoe-. Saylor & Co. No. 138,701; Jan. 4; v. 282; p. 189.
- Laces, veils, nets, tricot and milanese cloth in the piece. H. S. Hall & Co. No. 148,426; Nov. 15.
- Lacing, Cotton belt-. G. W. Southwick. No. 147,517; Oct. 18.
- Lacing tips, Shoe and corset. Joslin Mfg. Co. No. 148,102; Nov. 8.
- Lacings, galleons, and braids. American Narrow Fabric Co. No. 138,557; Jan. 4; v. 282; p. 185.
- Lacings, galleons, &c., Shoe, corset, underwear, and blouse. Glencairn Mfg. Co. No. 148,049; Nov. 8.
- Lacquer. Atlantic Chemical Co. No. 144,512; July 5; v. 288; p. 197.
- Lacquer, Electrical insulating-. John C. Dolph Company. No. 140,367; Mar. 15; v. 284; p. 580.
- Lacquer for coloring electric-lamp bulbs. Western Electric Company. No. 149,545; Dec. 13.
- Ladders, Folding. Tuckaway Folding Ladder Co. No. 149,526; Dec. 13.
- Lamp bodies, Vehicle-. Corcoran-Victor Company. No. 140,785; Mar. 29; v. 284; p. 943.
- Lamp-burners. White Flame Light Co. No. 142,905; May 17; v. 286; p. 642.
- Lamp-burners. White Flame Light Co. No. 145,019; July 19; v. 288; p. 630.
- Lamp-chimneys. Serv-Us Grocery Products Corporation. No. 140,210; Mar. 8; v. 284; p. 367.
- Lamp chimneys and reservoirs. Standard Oil Company of New York. No. 143,179; May 24; v. 286; p. 851.
- Lamp-globes, Glass. Pennsylvania Sales & Export Co. No. 140,052; Mar. 1; v. 284; p. 178.
- Lamp guards, Electric-. McGill Manufacturing Co. No. 148,150; Nov. 8.
- Lamp-posts for electric lights, Metal. Union Metal Manufacturing Company. No. 144,957; July 19; v. 288; p. 623.
- Lamp-shades made of aluminium. Aluminium-Walzwerke A.-G. No. 141,833; May 3; v. 286; p. 181.
- Lamp-sockets. Aluminium-Walzwerke A.-G. No. 147,898; Nov. 8.
- Lamp sockets and receptacles, Electric-. Bryant Electric Company. No. 149,857; Dec. 27.
- Lamps, Acetylene-. A. L. Hansen Mfg. Co. No. 145,684; Aug. 16; v. 289; p. 594.
- Lamps, Acetylene-. Shanklin Manufacturing Company. No. 148,923; Nov. 29.
- Lamps and fixtures, Electric. The King Manufacturing Company. No. 138,982; Jan. 18; v. 282; p. 554.
- Lamps and lanterns, lighting plants and systems, &c. Coleman Lamp Company. No. 142,359; May 10; v. 286; p. 407.
- Lamps and standards, &c., Electric. Handle Co. No. 143,359; May 31; v. 286; p. 1049.
- Lamps, Arc and incandescent electric. General Lamp & Motor Company. No. 148,045; Nov. 8.
- Lamps, burners, mantles, &c. J. I. Robin. No. 142,113; May 3; v. 286; p. 190.
- Lamps, Electric. Anderson Electric & Equipment Company. No. 144,685; July 19; v. 288; p. 615.
- Lamps, Electric. Thos. J. Corcoran Lamp Company. No. 140,099; Mar. 8; v. 284; p. 364.
- Lamps, Electric. Tultile Auto Bulb Company. No. 146,517; Sept. 6; v. 290; p. 217.
- Lamps, Electric-arc. C. P. Chamberlain. No. 141,513; Apr. 26; v. 285; p. 778.
- Lamps, Electric-arc. M. J. Wohl & Co. No. 144,978; July 19; v. 288; p. 624.
- Lamps, Electric flash-. Dyno Electric Appliance Corporation. No. 144,750; July 19; v. 288; p. 617.
- Lamps for automobiles, &c., Electric. K. D. Lamp Company. No. 142,650; May 17; v. 286; p. 630.
- Lamps for dentists, surgeons, and the like, Electric. W. J. Cameron. No. 139,444; Feb. 1; v. 283; p. 174.
- Lamps, Incandescent. Alpha Laboratories, Inc. No. 144,678; July 19; v. 288; p. 615.
- Lamps, lanterns, and parts thereof, Vapor-. Coleman Lamp Company. No. 140,701; Mar. 22; v. 284; p. 749.
- Lamps, Portable electric. S. W. Farber. No. 144,758; July 19; v. 288; p. 617.
- Lamps, Portable electric. S. Robert Schwartz & Bro. No. 148,918; Nov. 29.
- Lamps, Portable electric hand-. French Battery & Carbon Co. No. 138,816; Jan. 11; v. 282; p. 376.
- Lamps, Tungsten, nitrogen, and carbon. C. O. Alexander. No. 141,069; Apr. 12; v. 285; p. 379.
- Lanterns, portable lamps, &c., Gasolene and kerosene. National Stamping & Electric Works. No. 147,730; Oct. 25.
- Lap-ropes, Textile. L. Frank. No. 142,267; May 10; v. 286; p. 404.
- Lard. Corn Belt Packing Company. No. 142,481; May 17; v. 286; p. 625.
- Lard. Morris and Company. No. 139,006; Jan. 18; v. 282; p. 555.
- Lard. Morris & Company. No. 139,581; Feb. 8; v. 283; p. 352.
- Lard, ham, bacon, and oleomargarin. Swift & Company. No. 140,225; Mar. 8; v. 284; p. 367.
- Lard substitute. O. Wynne. No. 145,211; July 26; v. 288; p. 817.
- Lard substitute. O. Wynne. No. 145,213; July 26; v. 288; p. 817.
- Lard substitute containing cotton-seed oil. Kaufman Packing Co. No. 138,651; Jan. 4; v. 282; p. 188.
- Lard substitutes. H. R. Eliah. No. 149,373; Dec. 13.
- Lard substitutes. O. Wynne. No. 148,773; Nov. 22.
- Latches. Albany Hardware Specialty Mfg. Co. No. 146,024; Aug. 23; v. 289; p. 791.
- Lath, expanded metal, &c., Metal. Youngstown Pressed Steel Company. No. 139,107; Jan. 18; v. 282; p. 561.
- Lath, Metal. Youngstown Pressed Steel Company. No. 139,108; Jan. 18; v. 282; p. 561.
- Lath, Metal. The Youngstown Pressed Steel Company. No. 138,750; Jan. 4; v. 282; p. 190.
- Lathe-heads. Lodge & Shipley Machine Tool Co. No. 149,589; Dec. 13.
- Lathe. Davis Machine Tool Company, Inc. No. 148,574; Nov. 15.
- Lathe. Fitchburg Machine Works. No. 149,575; Dec. 13.
- Lathe. Monarch Machine Tool Company. No. 140,898; Mar. 29; v. 284; p. 946.
- Lathe and automatic lathes, parts thereof, and tools for said lathes. A. Beechler. No. 147,923; Nov. 8.
- Lathe and dies for cutting threads on screws, &c. Jones & Lamson Machine Company. No. 147,492; Oct. 18.
- Lathe and lathe parts. Dalton Manufacturing Corporation. No. 147,205; Oct. 4.
- Lathe and screw-machines. Turret-. Wood Turret Machine Co. No. 145,301; July 26; v. 288; p. 826.
- Lathe and shapers and parts of same. Walcott Lathe Company. No. 147,253; Oct. 4.
- Lathe, Automatic. Jones & Lamson Machine Company. No. 140,280; Mar. 8; v. 284; p. 372.
- Lathe, Iron-working spindle-. J. J. McCabe Lathe & Machinery Corporation. Nos. 140,883-4; Mar. 29; v. 284; p. 946.
- Lathe, planers, shapers, radial drills. American Tool Works Co. No. 140,253; Mar. 8; v. 284; p. 369.
- Lathe, planers, sloters, boring-mills, &c. Manning, Maxwell & Moore. No. 148,155; Nov. 8.
- Lathe, planers, sloters, boring-mills, wheel-lathes, &c. Manning, Maxwell & Moore Inc. No. 149,444; Dec. 13.



*Alphabetical list of trade-marks—Continued.*

- Lathes, Upright. The Bullard Machine Tool Co. No. 138,895; Jan. 11; v. 282; p. 379.
- Laundry machinery cloth covering sold in the piece. H. Kohnstamm & Co. No. 139,337; Feb. 1; v. 283; p. 170.
- Laundry and cleaning powder. E. R. Bowne. No. 144,358; July 5; v. 288; p. 191.
- Laundry-hampers. National Veneer Products Company. No. 144,446; July 5; v. 288; p. 194.
- Laundry-receptacles. Chalmette Laundry Co. No. 146,560; Sept. 13; v. 290; p. 421.
- Lawn sprinklers. Rainbow Lawn Sprinkler Company. No. 149,719; Dec. 20.
- Laws. Cotton and woolen goods in the piece. B. F. Bailey & Co. No. 139,923; Feb. 22; v. 283; p. 757.
- Laxative. L. A. Collins. No. 149,018; Dec. 6.
- Laxative. W. D. Craig. No. 143,926; June 21; v. 287; p. 578.
- Laxative. W. B. Jaques Drug Company. No. 139,148; Jan. 25; v. 282; p. 734.
- Laxative. H. Mazierska. No. 140,484; Mar. 15; v. 284; p. 584.
- Laxative. W. Schapira. No. 141,215; Apr. 12; v. 285; p. 383.
- Laxative. R. M. Shellabarger. No. 140,967; Mar. 29; v. 284; p. 948.
- Laxative and liver pills. H. M. Freck. No. 145,669; Aug. 16; v. 289; p. 593.
- Laxative and tonic preparation. Vino Medical Company. Nos. 146,899-900; Sept. 20; v. 290; p. 638.
- Laxative. Apple-syrup. The Apple-Lax Company. No. 138,935; Jan. 18; v. 282; p. 553.
- Laxative. Candy. J. F. Zingale. No. 144,504; July 5; v. 288; p. 196.
- Laxative. Cascara-bromid-quinin tablets. National Drug and Chemical Co. of Canada. No. 140,912; Mar. 29; v. 284; p. 947.
- Laxative compound. William S. Merrell Company. No. 139,836; Feb. 22; v. 283; p. 753.
- Laxative compounds. A. A. Gardos. No. 148,411; Nov. 15.
- Laxative. Fruit. Candi-Lax Mfg. Co. No. 146,703; Sept. 20; v. 290; p. 632.
- Laxative medicine. Vegetab Co. No. 140,022; Mar. 1; v. 284; p. 174.
- Laxative medicine. Williamson & Bright. No. 149,807; Dec. 20.
- Laxative preparations. H. J. Miller. No. 140,893; Mar. 29; v. 284; p. 946.
- Laxative preparation. B. F. Swisher. No. 141,245; Apr. 12; v. 285; p. 384.
- Laxative wafers. V. V. Bonkowski. No. 139,254; Feb. 1; v. 283; p. 167.
- Laxative wafers. J. Weisberger. No. 141,013; Mar. 29; v. 284; p. 950.
- Laxatives. Limestone Phosphate Company. No. 144,327; June 28; v. 287; p. 781.
- Laxatives. Reinschild Chemical Co. No. 140,525; Mar. 15; v. 284; p. 585.
- Lead and lead oxids, White. National Lead Company of California. No. 147,654; Oct. 25.
- Lead-pencils and magazine lead-pencils. Cartier, Inc. No. 147,951; Nov. 8.
- Leaks or cracks. Powder and liquid used in repairing. Metaloid Company. No. 143,815; June 7; v. 287; p. 192.
- Leather. Amalgamated Leather Companies. No. 138,769; Jan. 11; v. 282; p. 375.
- Leather. Amalgamated Leather Company, Inc. No. 145,592; Aug. 16; v. 289; p. 591.
- Leather. Friedlander Leather Co. No. 146,745; Sept. 20; v. 290; p. 633.
- Leather. John R. Evans & Company. No. 140,799; Mar. 29; v. 284; p. 943.
- Leather. Joseph N. Eisendrath Company. No. 146,567; Sept. 13; v. 290; p. 421.
- Leather. Lopes Export Company. No. 141,595; Apr. 26; v. 285; p. 781.
- Leather. Martin Leather Company. No. 149,449; Dec. 13.
- Leather. Mississippi Valley Tanning Co. No. 142,054; May 3; v. 286; p. 188.
- Leather. Monarch Leather Company. No. 141,783; Apr. 26; v. 285; p. 790.
- Leather. Monarch Leather Company. No. 144,863; July 19; v. 288; p. 620.
- Leather. L. F. Robertson & Sons. No. 140,953; Mar. 29; v. 284; p. 948.
- Leather. Robson Leather Company. No. 141,425; Apr. 19; v. 285; p. 568.
- Leather and babala beltings. Henry F. Cockill & Sons Limited. No. 145,337; Aug. 2; v. 289; p. 178.
- Leather and cut laces of leather, Lace. Graton & Knight Manufacturing Company. No. 147,613; Oct. 25.
- Leather and fabric articles, Dressing and cleaners for. Whittemore Brothers. No. 147,067; Sept. 27; v. 290; p. 809.
- Leather and rawhide belt-laces and leather and rawhide for general uses and for making belt-laces. Fieldstad Leather Company. No. 142,265; May 10; v. 286; p. 404.
- Leather and rubber fabric dressing and mohair-dressing. G. W. Roth. No. 139,876; Feb. 22; v. 283; p. 755.
- Leather. Artificial. Sanford Mills. No. 144,918; July 19; v. 288; p. 622.
- Leather, Bends of sole. P. Barbieri. No. 143,906; June 21; v. 287; p. 578.
- Leather brief cases, music-rolls, portfolios, &c. Rex Leather Goods Corporation. No. 144,266; June 28; v. 287; p. 776.
- Leather, Calif. Creese & Cook Co. No. 145,065; July 26; v. 288; p. 812.
- Leather-dressing. Basle Company. No. 141,864; May 3; v. 286; p. 182.
- Leather dressing. Whittemore Brothers, Corporation. Nos. 138,764-5; Jan. 4; v. 282; p. 192.
- Leather-dressing. Whittemore Brothers, Corporation. No. 141,016; Mar. 29; v. 284; p. 950.
- Leather-dressing. Whittemore Brothers, Corporation. No. 145,487; Aug. 2; v. 289; p. 182.
- Leather dressing and polish. Whittemore Brothers Corporation. No. 138,766; Jan. 4; v. 282; p. 192.
- Leather-dressing, metal-polish, and certain cleaning preparations. E. J. Lemire. No. 145,130; July 26; v. 288; p. 814.
- Leather-dressings. Burns Mfg. Co. No. 147,278; Oct. 11.
- Leather-dressings and metal-polishing materials. Kepec Company. No. 148,106; Nov. 8.
- Leather enamel, varnish, &c., Patent. E. L. Millett. No. 140,173; Mar. 8; v. 284; p. 366.
- Leather for vehicle-tops, Manufactured. Bridgeport Coach Lace Co. No. 146,559; Sept. 13; v. 290; p. 421.
- Leather goods for use in loom and textile machinery. John Ormerod & Sons. No. 140,919; Mar. 29; v. 284; p. 947.
- Leather. Imitation. Bridgeport Coach Lace Co. No. 147,839; Nov. 1.
- Leather. Imitation or artificial. Du Pont Fabrikoid Company. No. 142,991; May 24; v. 286; p. 845.
- Leather in the piece. Leathasilk Co. No. 143,385; May 31; v. 286; p. 1050.
- Leather. Manufactured. E. B. Cassatt. No. 148,796; Nov. 29.
- Leather material, Imitation-. B. Kay. No. 149,685; Dec. 20.
- Leather. Oil preparation for treating. Gutmann & Company. No. 141,369; Apr. 19; v. 285; p. 567.
- Leather or like supports, Flexible non-metallic. A. E. Block. No. 146,691; Sept. 20; v. 290; p. 632.
- Leather packings. Chas. A. Schieren Company. No. 149,498; Dec. 13.
- Leather packings, Certain. Chas. A. Schieren Company. No. 149,229; Dec. 6.
- Leather. Patent. A. C. Lawrence Leather Company. No. 145,713; Aug. 16; v. 289; p. 594.
- Leather. Patent. Radel Leather Manufacturing Co. No. 141,644; Apr. 26; v. 285; p. 782.
- Leather-polish. Société Générale des Cirages Français. No. 147,816; Nov. 1.
- Leather-preservative. Chemical Research Company of America. Nos. 142,468-9; May 17; v. 286; p. 625.
- Leather-preservative. F. A. Howard Laboratories. No. 142,573; May 17; v. 286; p. 628.
- Leather. Rawhide lace-. Page Belting Company. No. 141,632; Apr. 26; v. 285; p. 782.
- Leather. Rawhide lace-. Page Belting Company. No. 142,691; May 17; v. 286; p. 631.
- Leather. Rawhide lace-. Page Belting Company. No. 142,693; May 17; v. 286; p. 631.
- Leather. Rawhide lace-. Page Belting Company. No. 142,695; May 17; v. 286; p. 631.
- Leather. Rawhide side lace-. F. B. Williams. No. 145,207; July 26; v. 288; p. 816.
- Leather soft, flexible, and pliable, Compound for rendering. Chas. W. Young & Co. No. 148,321; Nov. 8.
- Leather, Sole-. P. Barbieri. No. 145,039; July 26; v. 288; p. 811.
- Leather, Sole-. B. Frank & Sons. Nos. 141,357-8; Apr. 19; v. 285; p. 566.
- Leather, Sole-. Jos. Musliner & Co. No. 148,488; Nov. 15.
- Leather, Sole-. H. Levy. No. 145,717; Aug. 16; v. 289; p. 595.
- Leather, Sole-. Oak Chrome & Stone Chrome Leather Co. No. 148,190; Nov. 8.
- Leather substitute. Woodward and Cochey. No. 142,181; May 3; v. 286; p. 192.
- Leather substitute. Woodward & Cochey. No. 142,849; May 17; v. 286; p. 636.
- Leather substitute. Woodward & Cochey. No. 147,720; Oct. 25.
- Leather, Unfinished and partly-finished. New Castle Leather Company. No. 139,464; Feb. 1; v. 283; p. 176.
- Leathers. Chicago Tanning Co. No. 148,799; Nov. 29.
- Leathers. General Export Trading Co. No. 140,810; Mar. 29; v. 284; p. 943.
- Leathers. M. Lipschitz. No. 138,992; Jan. 18; v. 282; p. 555.
- Leathers. C. Moench Sons Company. No. 149,170; Dec. 6.
- Leathers and skins. Ste. Ame. des Anciens Etablissements A. Combes & Fils & Cie. No. 142,334; May 10; v. 286; p. 406.
- Leathers, Skin-. C. D. Brown & Co. No. 140,573; Mar. 22; v. 284; p. 744.
- Lenses and blanks, Ophthalmic. M. H. Harris. No. 141,374; Apr. 19; v. 285; p. 567.



*Alphabetical list of trade-marks—Continued.*

- Lenses and blanks therefor, Ophthalmic and semifinished. American Optical Company. Nos. 144,162-5; June 28; v. 287; p. 173.
- Lenses and instruments, Chemical cloth for cleaning, &c., optical. Tobias & Co. No. 140,021; Mar. 1; v. 284; p. 174.
- Lenses, Automobile-headlight. T. B. Dewhurst. No. 138,805; Jan. 11; v. 282; p. 376.
- Lenses for motion-picture projection and similar purposes. Kollmorgen Optical Corporation. Nos. 146,276-7; Sept. 6; v. 290; p. 200.
- Lenses, Headlight. Primolite Company. No. 140,940; Mar. 29; v. 284; p. 947.
- Lenses, Non-breakable lamp. Insel Company. No. 149,412; Dec. 13.
- Lenses, Ophthalmic. Bausch & Lomb Optical Co. No. 142,448; May 17; v. 286; p. 624.
- Lenses, Ophthalmic. Buffalo Lens Mfg. Co. No. 146,188; Sept. 6; v. 290; p. 198.
- Lenses, Ophthalmic. A. J. Cross. No. 147,294; Oct. 11.
- Lenses, Ophthalmic. F. A. Hardy & Company. No. 141,133; Apr. 12; v. 285; p. 381.
- Lenses, Optical. Titmus Optical Co. No. 148,546; Nov. 15.
- Letter-duplicating machine. N. B. Browne. No. 142,459; May 17; v. 286; p. 625.
- Letter-heads, circulars, &c. W. P. Southard. No. 145,225; July 26; v. 288; p. 817.
- Letters, circulars, &c., Printed. J. R. Moffett. No. 140,176; Mar. 8; v. 284; p. 366.
- Licorice confections. John Mueller Licorice Co. No. 146,821; Sept. 20; v. 290; p. 636.
- Light-diffusers. Stewart-Warner Speedometer Corp. No. 138,869; Jan. 11; v. 282; p. 378.
- Lights, Electric. L. Rosengart. No. 140,956; Mar. 29; v. 284; p. 948.
- Lights for vehicles, &c., Spot. Chas. Kaufmann & Sons. No. 139,826; Feb. 22; v. 283; p. 753.
- Lights, Port. C. H. Knobbs. No. 139,154; Jan. 25; v. 282; p. 734.
- Lighting and heating product. Acetylene Service Company. No. 141,823; May 3; v. 286; p. 181.
- Lighting fixtures and lamps, shades, globes, &c., Electric. The Edward N. Riddle. Nos. 139,193-4; Jan. 25; v. 282; p. 735.
- Limbs, Artificial. J. E. Hanger. No. 139,545; Feb. 8; v. 283; p. 351.
- Lime, Building. New England Lime Co. Nos. 139,739-40; Feb. 15; v. 283; p. 543.
- Lime, Building. New England Lime Co. No. 142,308; May 10; v. 286; p. 405.
- Lime, Hydrated. Kelley Island Lime & Transport Company. No. 147,224; Oct. 4.
- Lime, Hydrated. Rockland and Rockport Lime Corporation. No. 141,648; Apr. 26; v. 285; p. 782.
- Lime, Land. Rockland and Rockport Lime Corporation. No. 138,852; Jan. 11; v. 282; p. 377.
- Lime phosphate. American Agricultural Chemical Company. No. 147,467; Oct. 18.
- Limestone, Ground. Grangers Lime Company. No. 143,966; June 21; v. 287; p. 579.
- Linen, hemp, silk, wool, and worsted piece goods, carpets, &c. Morton Sundour Fabrics Ltd. No. 150,018; Dec. 27.
- Linen piece goods, napkins, scarfs, &c. B. F. Bailey and Co. No. 144,694; July 19; v. 288; p. 615.
- Linens, draperies, handkerchiefs, &c., Household. Maass & Kemper. No. 144,839; July 19; v. 288; p. 620.
- Liniment. M. J. Barnes. No. 140,324; Mar. 15; v. 284; p. 579.
- Liniment. T. W. Blakeslee. No. 141,322; Apr. 19; v. 285; p. 565.
- Liniment. J. Connelly. No. 140,782; Mar. 29; v. 284; p. 942.
- Liniment. B. Diamant. No. 143,961; June 21; v. 287; p. 579.
- Liniment. Dr. Earl S. Sloan, Inc. No. 141,300; Apr. 12; v. 285; p. 389.
- Liniment. N. Hodge. No. 146,107; Aug. 30; v. 289; p. 1014.
- Liniment. F. E. Loomis. No. 140,006; Mar. 1; v. 284; p. 174.
- Liniment. J. H. Luff. No. 148,764; Nov. 22.
- Liniment. J. W. Mitchell. No. 150,010; Dec. 27.
- Liniment. B. Robins. No. 144,461; July 5; v. 288; p. 195.
- Liniment. J. Rosen. No. 142,114; May 3; v. 286; p. 190.
- Liniment. W. F. Severa Co. No. 147,165; Oct. 4.
- Liniment. A. Szabo. No. 150,137; Dec. 27.
- Liniment. G. C. Wilson. No. 143,225; May 24; v. 286; p. 853.
- Liniment and medicinal preparation, Certain. A. L. Haas. No. 147,109; Oct. 4.
- Liniment, Certain. Weightman Chemical Company. No. 147,042; Sept. 27; v. 290; p. 806.
- Liniment, Certain. Charles A. Wolf. No. 147,190; Oct. 4.
- Liniment for burns, sprains, sores, &c. J. K. Huston. No. 146,106; Aug. 30; v. 289; p. 1014.
- Liniment for eczema. J. B. Carlsbergh. No. 144,556; July 12; v. 288; p. 423.
- Liniment for lumbago, &c. R. W. Koehler. No. 140,157; Mar. 8; v. 284; p. 365.
- Liniment for rheumatic diseases. L. G. Sanchez. No. 139,878; Feb. 22; v. 283; p. 755.
- Liniment for rheumatism. J. A. Boon. No. 146,180; Sept. 6; v. 290; p. 198.
- Liniment for rheumatism. W. Fuld. No. 143,008; May 24; v. 286; p. 846.
- Liniment for rheumatism. G. Peca. No. 146,124; Aug. 30; v. 289; p. 1015.
- Liniment for rheumatism and catarrh. J. H. Tilson. No. 141,449; Apr. 19; v. 285; p. 569.
- Liniment for rheumatism, neuralgia, and the like. F. L. Case. No. 144,557; July 12; v. 288; p. 423.
- Liniment for rheumatism, sprains, bruises, &c. E. F. Harper. No. 138,970; Jan. 18; v. 282; p. 554.
- Liniment for rheumatism, sprains, pains, and swellings. J. Goguen. No. 139,988; Mar. 1; v. 284; p. 173.
- Liniment for sprains, &c. E. Baldwin. No. 142,927; May 24; v. 286; p. 843.
- Liniment, hair-tonic, and pile-ointment. J. H. Griffith. No. 144,406; July 5; v. 288; p. 193.
- Liniments. J. W. Boothe. No. 143,913; June 21; v. 287; p. 578.
- Liniments. H. D. Oldham. No. 141,629; Apr. 26; v. 285; p. 782.
- Liniments for rheumatic affections, &c. M. Gast. No. 147,100; Oct. 4.
- Lining-satin in the piece. Goldenberg's. No. 139,453; Feb. 1; v. 283; p. 175.
- Linings. J. Albert. No. 141,068; Apr. 12; v. 285; p. 379.
- Linoleum. Lee Floor Coverings. No. 140,870; Mar. 29; v. 284; p. 945.
- Linoleum, Imitation. Economic Manufacturing Co. No. 140,372; Mar. 15; v. 284; p. 581.
- Linoleum, oil-cloth, and floor-covering. Certain-Teed Products Corporation. No. 142,954; May 24; v. 286; p. 844.
- Linon, gingham, poplin, &c., in the piece, India. Ely & Walker Dry Goods Company. No. 146,731; Sept. 20; v. 290; p. 633.
- Lip-stick, rouge, toilet water, &c. Fashion Parfume Co. No. 139,137; Jan. 25; v. 282; p. 734.
- Liquid cleaning and polishing materials for automobile-bodies. Crystal-Lac Products Company. No. 144,234; June 28; v. 287; p. 775.
- Liquid composition for the treatment of kidney, bladder, and liver diseases. La Rue Medicine Company. No. 138,660; Jan. 4; v. 282; p. 188.
- Liquid compound for toilet use. John Paterson & Co. No. 150,045; Dec. 27.
- Liquid paint. Wadsworth, Howland & Co., Inc. No. 145,922; Aug. 16; v. 289; p. 605.
- Liquid preparation for smoothing and dressing the hair and for use as a scalp-tonic. J. Mauro. No. 145,982; Aug. 23; v. 289; p. 788.
- Liquid preparation, Medicinal. J. P. Schrodt. No. 144,273; June 28; v. 287; p. 776.
- Liquids, Cleaning and polishing. Lincoln Chemical Company. No. 148,889; Nov. 29.
- Liquids, Meters for measuring the flow of. Republic Flow Meters Co. No. 145,185; July 26; v. 288; p. 816.
- Lithopone. E. I. du Pont de Nemours & Co. No. 138,808; Jan. 11; v. 282; p. 376.
- Lithopone, (a manufactured product which is used as a base in the manufacture of paints.) The Glidden Company. No. 148,416; Nov. 15.
- Live stock. L. C. Willits. No. 144,498; July 5; v. 288; p. 196.
- Liver-pills. T. McCarthy. No. 148,148; Nov. 8.
- Lock-nuts. Flannery Bolt Company. No. 146,226; Sept. 6; v. 290; p. 199.
- Lock-nuts. Patterson Lock Nut Mfg. Co. No. 149,470; Dec. 13.
- Locks. W. Bohannon, Inc. Nos. 144,175-6; June 28; v. 287; p. 773.
- Locks. Miller Lock Company. No. 141,043; Mar. 29; v. 284; p. 953.
- Locks and latches. C. A. Nash & Son. No. 142,630; May 17; v. 286; p. 630.
- Locks and latches. C. A. Nash & Son. No. 146,822; Sept. 20; v. 290; p. 636.
- Locks and lock-casings. E. L. Godsbalk. No. 144,218; June 28; v. 287; p. 774.
- Locks, Door, trunk, &c. Societe des Moteurs Gnome et Rhone. No. 142,771; May 17; v. 286; p. 634.
- Locks, keys, and parts thereof, &c. S. R. Slaymaker. No. 142,782; May 17; v. 286; p. 634.
- Logs and rough lumber. Dudley Lumber Company. No. 142,988; May 24; v. 286; p. 845.
- Long-cloth in the piece. Marshall Field & Company. No. 144,846; July 19; v. 288; p. 620.
- Loose-leaf binders, blank books, &c. Shea Smith & Co. Nos. 139,628-9; Feb. 8; v. 283; p. 353.
- Lorgnette-frames. Sussfeld, Lorsch & Co. No. 141,241; Apr. 12; v. 285; p. 384.
- Lotion, Eczema. The Worsham Company. No. 138,749; Jan. 4; v. 282; p. 190.
- Lotion, Face. E. Carpenter. No. 146,704; Sept. 20; v. 290; p. 632.
- Lotion for treating the complexion. J. H. Snyder Med. Co. No. 138,865; Jan. 11; v. 282; p. 378.
- Lotion for treating the complexion. M. E. Wilder. No. 140,245; Mar. 8; v. 284; p. 368.
- Lotion, Shaving and healing. J. H. Ichter. No. 148,083; Nov. 8.



*Alphabetical list of trade-marks—Continued.*

- Lotion, Skin-. Cuttner Chemical Company. No. 140,358; Mar. 15; v. 284; p. 580.
- Lotion, Skin-. Dryzol Chemical Co. No. 140,368; Mar. 15; v. 284; p. 580.
- Lotion, Skin-. A. O. Freedman. No. 141,940; May 3; v. 286; p. 184.
- Lotion, Skin-. W. J. Hanns. No. 140,137; Mar. 8; v. 284; p. 365.
- Lotion, Skin-. Hertz & Williams. No. 140,142; Mar. 8; v. 284; p. 365.
- Lotion, Skin-. Lang Drug Co. No. 142,001; May 3; v. 286; p. 186.
- Lotion, Skin-. Marshall Field & Company. No. 149,158; Dec. 6.
- Lotion, Skin-. A. H. Montgomery. No. 139,351; Feb. 1; v. 283; p. 170.
- Lotions and hair-tonics, Face-. Dr. J. Haas. No. 146,759; Sept. 20; v. 290; p. 634.
- Lotions, Skin-. Nougue Company. No. 145,766; Aug. 16; v. 289; p. 596.
- Lotions, Toilet. Liquid Velvet Company. No. 147,351; Oct. 11.
- Louver or Venetian blinds. J. G. Wilson Corporation. No. 141,818; Apr. 26; v. 285; p. 794.
- Lozenge, Medicinal. R. A. Bagley. No. 145,601; Aug. 16; v. 289; p. 591.
- Lozenges, Breath-perfume. E. J. Hoadley. No. 144,581; July 12; v. 288; p. 424.
- Lubricant and squeak cure. Halstead Specialties Co. No. 149,781; Dec. 20.
- Lubricant for the human skin. K. R. Pond. No. 148,725; No. 22.
- Lubricants. Associated Oil Company. No. 143,278; May 31; v. 286; p. 1047.
- Lubricants for fibers preparatory to spinning. Crew Levick Company. Nos. 140,355-7; Mar. 15; v. 284; p. 580.
- Lubricating apparatus, Certain. Bassick Manufacturing Co. No. 148,635; Nov. 22.
- Lubricating compound. Area Manufacturing Co. No. 138,566; Jan. 4; v. 282; p. 185.
- Lubricating compound, Neutralizing. T. H. McKee. No. 140,886; Mar. 29; v. 284; p. 946.
- Lubricating-greases. Gearo Mfg. Co. No. 148,412; Nov. 15.
- Lubricating-greases, &c. Gosselin Trading Corporation, (now by change of name E. L. Quarles Corporation.) No. 140,813; Mar. 29; v. 284; p. 943.
- Lubricating jelly, Antiseptic. Sharp & Dohme. No. 145,811; Aug. 16; v. 289; p. 597.
- Lubricating-jelly, Antiseptic. Sharp & Dohme. No. 147,403; Oct. 11.
- Lubricating-oil, chain and non-fluid lubricant. Harley-Davidson Motor Co. No. 141,465; Apr. 19; v. 285; p. 570.
- Lubricating oils and greases. Northwestern Oil Company. No. 142,073; May 3; v. 286; p. 189.
- Lubricators, Force-feed. McCord Manufacturing Company. No. 141,768; Apr. 26; v. 285; p. 789.
- Lumber. Arkansas Soft Pine Bureau. Nos. 146,425-6; Sept. 6; v. 290; p. 206.
- Lumber. Douglas Fir Exploitation Co. No. 142,986; May 24; v. 286; p. 845.
- Lumber. J. F. Haines. No. 139,077; Jan. 18; v. 282; p. 558.
- Lumber. Hawkins Lumber Company. No. 148,072; Nov. 8.
- Lumber. May Brothers. Nos. 144,435-8; July 5; v. 288; p. 194.
- Lumber. Prasse Lumber Company. No. 143,832; June 7; v. 287; p. 194.
- Lumber. A. F. Thane & Co. No. 142,154; May 3; v. 286; p. 191.
- Lumber. Weitzel Lumber Company. No. 143,774; June 7; v. 287; p. 188.
- Lumber. William M. Lloyd Company. No. 146,586; Sept. 13; v. 290; p. 422.
- Lumber and forest products. Union Lumber Company. No. 138,726; Jan. 4; v. 282; p. 190.
- Lumber and timber. Wisconsin Lumber Company. No. 145,875; Aug. 16; v. 289; p. 599.
- Lumber, Certain. J. W. Turnbull Lumber Company. No. 147,824; Nov. 1.
- Lumber, Finished. American Pitch Pine Export Company. No. 138,558; Jan. 4; v. 282; p. 185.
- Lumber, Rough. Foxley Stave & Lumber Co. Nos. 138,620-1; Jan. 4; v. 282; p. 187.
- Lumber, shingles, laths. Brandmeir-Rounds Lumber Co. Nos. 149,350-1; Dec. 13.
- Lunch-boxes. Hot Lunch Box Company. No. 149,582; Dec. 13.
- Luncheon outfit. Wilder Mfg. Co. No. 142,840; May 17; v. 286; p. 636.
- Luncheon outfit. Wilder Mfg. Co. No. 146,912; Sept. 20; v. 290; p. 638.
- Lye. Stoneward Corporation. No. 150,134; Dec. 27.
- Macaroni. Alexander Gallarani Company. Nos. 145,363-4; Aug. 2; v. 289; pp. 178-9.
- Macaroni. Atlantic Macaroni Co. No. 149,825; Dec. 27.
- Macaroni. Lopez & Co. No. 149,991; Dec. 27.
- Macaroni and other alimentary foods. F. A. Martoccio Macaroni Co. No. 138,912; Jan. 11; v. 282; p. 381.
- Macaroni and vermicelli. Liberty Maccheroni Mfg. Co. No. 145,400; Aug. 2; v. 289; p. 180.
- Macaroni, spaghetti, &c. Skinner Manufacturing Company. No. 141,808; Apr. 26; v. 285; p. 793.
- Machine-tools. Betts Machine Company. No. 139,486; Feb. 8; v. 283; p. 349.
- Machine-tools and tools therefor. McCrosky Tool Corporation. No. 139,572; Feb. 8; v. 283; p. 352.
- Machines and equipments for use by bakers. American Bakers Machinery Company. No. 143,884; June 21; v. 287; p. 577.
- Machines and saws, milling-cutters, &c. Thurston Mfg. Co. No. 139,645; Feb. 8; v. 283; p. 354.
- Machines and tools. Hall Hardware Company. No. 143,970; June 21; v. 287; p. 580.
- Machines and tools for electrical workers, Certain. Bush Electric Company. No. 147,559; Oct. 25.
- Machines for forming polygonal articles, gears, &c. Stevenson Gear Company. No. 147,698; Oct. 25.
- Machinery. Galland-Henning Mfg. Co. No. 148,653; Nov. 22.
- Machinery. Kinney Manufacturing Company. No. 138,910; Jan. 11; v. 282; p. 381.
- Machinery and parts thereof. American Tool & Machine Co. No. 142,429; May 17; v. 286; p. 624.
- Machinery and tools. W. E. Austin Machinery Co. No. 141,077; Apr. 12; v. 285; p. 379.
- Machinery and tools. Continental Auto Parts Company. No. 138,898; Jan. 11; v. 282; p. 380.
- Machinery and tools. Hill, Clarke & Co. of Chicago. No. 144,121; June 21; v. 287; p. 587.
- Machinery and tools. Ingersoll-Rand Company. No. 139,146; Jan. 25; v. 282; p. 734.
- Machinery and tools. Pangborn Corporation. No. 143,421; May 31; v. 286; p. 1056.
- Machinery and tools. Societe des Moteurs Gnome et Rhone. No. 143,475; May 31; v. 286; p. 1053.
- Machinery and tools. Stewart-Skinner Company. No. 149,511; Dec. 13.
- Machinery and tools and parts thereof. Ingersoll-Rand Company. No. 146,488; Sept. 6; v. 290; p. 213.
- Machinery and tools, Certain. Chicago Pneumatic Tool Company. No. 149,358; Dec. 13.
- Machines and tools, Certain. Hibbard, Spencer, Bartlett & Co. No. 149,948; Dec. 27.
- Machinery and tools, Certain. Ingersoll-Rand Company. No. 149,117; Dec. 6.
- Machinery and tools, Certain. Oil Well Supply Company. No. 146,317; Sept. 6; v. 290; p. 202.
- Machinery and vehicles, Instruments for recording the periods of operation and of rest of. Service Recorder Company. No. 141,806; Apr. 26; v. 285; p. 793.
- Machinery and water-cooled equipment for furnaces. Blaw-Knox Company. No. 143,912; June 21; v. 287; p. 578.
- Machinery, Certain. Austin Machinery Corporation. No. 145,246; July 26; v. 288; p. 820.
- Machinery, Certain. Wellman-Seaver-Morgan Company. No. 146,623; Sept. 13; v. 290; p. 423.
- Machinery, Electrically-operated. Writing Foundry Equipment Co. No. 139,912; Feb. 22; v. 283; p. 756.
- Machinery, parts. George W. Pyott Co. No. 148,729; Nov. 22.
- Mackinaws and overcoats. Spokane Dry Goods Company. No. 149,244; Dec. 6.
- Madras in the piece. Jacob Miller Sons & Co. No. 140,634; Mar. 22; v. 284; p. 745.
- Madras in the piece. Jacob Miller Sons & Co. No. 140,642; Mar. 22; v. 284; p. 746.
- Magazine and certain named publications, Monthly. Ancient and Mystical Order Rosae Crucis. No. 145,313; Aug. 2; v. 289; p. 177.
- Magazine and weekly paper, Quarterly. American Association of Nurserymen. No. 141,073; Apr. 12; v. 285; p. 379.
- Magazine, House. Coleman Lamp Company. No. 149,017; Dec. 6.
- Magazine lead-pencils. The Sandfelder Corporation. No. 144,917; July 19; v. 288; p. 622.
- Magazine, Monthly. American Federation of Labor. No. 142,229; May 10; v. 286; p. 403.
- Magazine, Monthly. American Institute of Mining and Metallurgical Engineers. No. 139,752; Feb. 22; v. 283; p. 751.
- Magazine, Monthly. N. T. Baker. No. 148,351; Nov. 15.
- Magazine, Monthly. Camp Fire Girls, Inc. No. 143,566; June 7; v. 287; p. 182.
- Magazine, Monthly. Canadian Club of New York. No. 141,091; Apr. 12; v. 285; p. 379.
- Magazine, Monthly. G. F. Earnshaw. No. 142,259; May 10; v. 286; p. 404.
- Magazine Monthly. Fidelity National Bank & Trust Co. No. 144,760; July 19; v. 288; p. 617.
- Magazine, Monthly. Guardsman Publishing and Printing Company. No. 143,268; June 21; v. 287; p. 579.
- Magazine, Monthly. International Magazine Company. No. 149,119; Dec. 6.
- Magazine, Monthly. Kiwanis Club, International. No. 141,995; May 3; v. 286; p. 186.
- Magazine, Monthly. W. A. Radford. No. 145,442; Aug. 2; v. 289; p. 181.
- Magazine, Monthly. E. A. Smith. No. 141,229; Apr. 12; v. 285; p. 384.
- Magazine, Monthly. United Publishing Company. No. 149,744; Dec. 20.



## Alphabetical list of trade-marks—Continued.

- Magazine, Monthly art. American Art Student Publishing Co. No. 144,680; July 19; v. 288; p. 615.
- Magazine or house organ. H-O Cereal Company. No. 149,110; Dec. 6.
- Magazine or house organ, Monthly. Association of Army and Navy Stores. No. 145,536; Aug. 9; v. 289; p. 407.
- Magazine or pamphlet. International Magazine Company. No. 148,089; Nov. 8.
- Magazine, Periodical. Architects' Small House Service Bureau of Minnesota. No. 143,891; June 21; v. 287; p. 577.
- Magazine publication, Monthly. Buffalo Society of Natural Sciences. No. 149,858; Dec. 27.
- Magazine published and sold monthly, Title of. M. Zobel. No. 148,564; Nov. 15.
- Magazine published from time to time. Baldwin Company. No. 143,904; June 21; v. 287; p. 577.
- Magazine published monthly, Illustrated. Herald-Leader Company. No. 145,112; July 26; v. 288; p. 813.
- Magazine, Quarterly. Gaelic League of the State of New York. No. 139,796; Feb. 22; v. 283; p. 752.
- Magazines and pamphlets. Rose and Company. No. 149,219; Dec. 6.
- Magazines and periodicals. G. B. Williams. No. 142,350; May 10; v. 286; p. 406.
- Magazines and trade publications. Aldan Publishing Company. No. 145,306; Aug. 2; v. 289; p. 177.
- Magazines, Monthly. E. R. Allured. Nos. 148,975-G; Dec. 6.
- Magazines, Monthly. Automobile Club of St. Louis. No. 147,915; Nov. 8.
- Magazines, Monthly. Harley-Davidson Motor Co. No. 140,395; Mar. 15; v. 284; p. 581.
- Magazines, Monthly. Pacific Drug Review. No. 148,502; Nov. 15.
- Magnesia, Bottled. C. H. Husband. No. 145,967; Aug. 23; v. 289; p. 788.
- Magnet-wires. Belden Manufacturing Company. No. 146,555; Sept. 13; v. 290; p. 421.
- Magnet-wires. Belden Manufacturing Company. No. 147,927; Nov. 8.
- Magneto-generators, electric switches and contact devices. Electric Tachometer Corporation. No. 146,568; Sept. 13; v. 290; p. 421.
- Magnetos. Ericsson Manufacturing Company. No. 141,743; Apr. 26; v. 285; p. 787.
- Mail-order sheets. Brentano's. No. 146,184; Sept. 6; v. 290; p. 198.
- Mailing-boxes. Mason Box Company. No. 142,217; May 3; v. 286; p. 192.
- Mailing envelopes, letter files and sheets. Alvah Bushnell Company. No. 139,918; Feb. 22; v. 283; p. 757.
- Malt and hops, Concentrated material of. New England Brewing Company. No. 147,142; Oct. 4.
- Malt extract. Adam Scheidt Brewing Co. No. 149,812; Dec. 27.
- Malt extract. Diamond Food Products Corporation. No. 140,108; Mar. 8; v. 284; p. 364.
- Malt extract. I. A. Dorfmann. No. 145,503; Aug. 2; v. 289; p. 184.
- Malt extract. P. A. Horback. No. 140,400; Mar. 15; v. 284; p. 581.
- Malt extract. Pep Brand Specialty Co. No. 140,930; Mar. 29; v. 284; p. 947.
- Malt extract. M. C. Rosenfeld Company. No. 148,241; Nov. 8.
- Malt extract. Tiger Products Company. No. 139,410; Feb. 1; v. 283; p. 172.
- Malt extract. Wander Company. No. 146,906; Sept. 20; v. 290; p. 638.
- Malt, Extract of barley-. Burger Bros. Company. No. 143,564; June 7; v. 287; p. 182.
- Malt-extract products, Crystalline. Wander Company. No. 143,214; May 24; v. 286; p. 852.
- Malt extracts. H. Krauss. No. 140,863; Mar. 29; v. 284; p. 945.
- Malt extracts. Malt-Diastase Company. No. 145,409; Aug. 2; v. 289; p. 180.
- Malt extracts. Ye Olden Times Co. No. 146,918; Sept. 20; v. 290; p. 639.
- Malt extracts. A. Wielich. No. 149,747; Dec. 20.
- Malt extracts. A. Wielich. No. 150,177; Dec. 27.
- Malt extracts for food. S. H. Morris. No. 148,483; Nov. 15.
- Malt extracts, Non-alcoholic. Malt-Diastase Company. No. 148,474; Nov. 15.
- Malt for use in beverages. F. J. Roeser. No. 145,190; July 26; v. 288; p. 816.
- Malt, hops and pitch, Green. Pan-America Supply Company. No. 141,195; Apr. 12; v. 285; p. 383.
- Malt-syrup. J. B. Tuor. No. 150,145; Dec. 27.
- Malt-syrup and hop compound. Augusta Ice & Beverage Company. No. 143,542; June 7; v. 287; p. 181.
- Malt-syrup for food purposes. Perfection Products Co. Nos. 140,665-6; Mar. 22; v. 284; p. 746.
- Manicuring preparations, powders, &c., Containers for. A. Moeller. No. 149,457; Dec. 13.
- Manifolds for internal-combustion engines. R. W. A. Brewer. No. 140,335; Mar. 15; v. 284; p. 579.
- Mantles, Incandescent. Brightlight Mantle Corporation. No. 140,336; Mar. 15; v. 284; p. 579.
- Manual or publication. Commercial Newspaper Company. No. 147,285; Oct. 11.
- Manure and straw spreaders, feed-grinders, manure-loaders. Litchfield Manufacturing Company. No. 146,585; Sept. 13; v. 290; p. 422.
- Maple-sugar, cans of soft-grain maple-sugar, &c., Cakes of. Cary Maple Sugar Company. No. 146,027; Aug. 23; v. 289; p. 791.
- Maple-sugar, fresh milk and cream, &c. W. S. Martin. No. 147,794; Nov. 1.
- Maps, charts, and printed books. Porter Chemical Company. No. 147,385; Oct. 11.
- Marble. Alamo Marble Company. No. 149,334; Dec. 13.
- Marble and cut stone. Georgia Marble Company. Nos. 143,848-9; June 14; v. 287; p. 399.
- Marble and cut stone. Georgia Marble Company. Nos. 145,673-4; Aug. 16; v. 289; p. 593.
- Marble and cut stone. Georgia Marble Company. No. 147,607; Oct. 25.
- Marble and cut stone, Finished. The Georgia Marble Company. Nos. 144,771-2; July 19; v. 288; p. 618.
- Marble blocks. The Alamo Marble Company. No. 142,913; May 24; v. 286; p. 843.
- Marble cut to size, finished marble, and cut stone. Georgia Marble Company. No. 150,209; Dec. 27.
- Margarin. B. S. Pearsall Butter Co. No. 147,880; Nov. 1.
- Margarin, Nut-. J. E. Decker & Sons. No. 140,788; Mar. 29; v. 284; p. 943.
- Marking and stamping machines. Noble & Westbrook Manufacturing Company. No. 142,641; May 17; v. 286; p. 630.
- Marl lime. Claremont Marl Products Company. No. 141,518; Apr. 26; v. 285; p. 778.
- Marmalade. James Robertson & Sons Preserve Manufacturers. No. 143,443; May 31; v. 286; p. 1052.
- Marmalade and jelly, Orange. California Fruit Products Co. No. 145,546; Aug. 9; v. 289; p. 407.
- Marmalade, Orange. Gordon & Dilworth. No. 138,628; Jan. 4; v. 282; p. 187.
- Marmalade, Orange. Gordon & Dilworth. No. 143,354; May 31; v. 286; p. 1049.
- Marshmallow Crème. Colby Confectionery Company. No. 149,883; Dec. 27.
- Marshmallow crème and egg-powder compound. Citizens' Wholesale Supply Co. No. 143,571; June 7; v. 287; p. 182.
- Marshmallow product. American Biscuit Company. No. 140,251; Mar. 8; v. 284; p. 369.
- Marshmallows. L. J. Christopher Co. No. 140,095; Mar. 8; v. 284; p. 364.
- Marshmallows, chocolates, fudge, candies. Rueckheim Bros. & Eckstein. No. 148,245; Nov. 8.
- Mashers, Clay and potato. C. E. Jenkins. No. 148,453; Nov. 15.
- Massage and skin curative. M. G. Scott. No. 140,962; Mar. 29; v. 284; p. 948.
- Massage-cream, hair-tonic, &c. Pacific Coast Barber Supply Co. No. 140,920; Mar. 29; v. 284; p. 947.
- Massage shower-bath sprays. The Fitzgerald Manufacturing Company. No. 138,619; Jan. 4; v. 282; p. 187.
- Matches. Aktiebolaget Förenade Svenska Tändsticksfabrik. No. 142,407; May 17; v. 286; p. 623.
- Matches. American Transoceanic Traders. No. 146,675; Sept. 20; v. 290; p. 631.
- Matches. John T. Huner, Inc. No. 138,643; Jan. 4; v. 282; p. 187.
- Matches. Servus Grocery Products Corporation. No. 144,470; July 5; v. 288; p. 195.
- Matches, Impregnated. Republic Match Company. No. 149,489; Dec. 13.
- Mats and rugs. Binns Patent Band Co. No. 147,073; Oct. 4.
- Mats, Leather floor-. F. B. Helies. No. 149,107; Dec. 6.
- Mattocks and picks. The Wyoming Shovel Works. No. 139,671; Feb. 8; v. 283; p. 355.
- Mattresses. Capitol Bedding Company. No. 149,867; Dec. 27.
- Mattresses. Crescent Feather Company. No. 140,353; Mar. 15; v. 284; p. 580.
- Mattresses. Empire Mattress Company. Nos. 150,193-4; Dec. 27.
- Mattresses. Greenpoint-Southern Company. No. 140,269; Mar. 8; v. 284; p. 371.
- Mattresses. C. H. Lears & Sons. No. 139,567; Feb. 8; v. 283; p. 352.
- Mattresses. McKoskey & Co. Nos. 147,871-2; Nov. 1.
- Mattresses. Never-Stretch Mattress Company. No. 148,767; Nov. 22.
- Mattresses. Sanitary Mattress Company. No. 150,099; Dec. 27.
- Mattresses. John A. Schwarz, Inc. No. 147,682; Oct. 25.
- Mattresses. Southern Spring Bed Company. No. 142,774; May 17; v. 286; p. 634.
- Mattresses and pillows. Fond du Lac Bedding Co. No. 142,868; May 17; v. 286; p. 638.
- Mattresses and pillows. A. H. Slater. No. 144,473; July 5; v. 288; p. 195.
- Mattresses, beds, bed-springs. Southern Spring Bed Co. No. 150,117; Dec. 27.
- Mattresses, pillows, and box-springs. International Bedding Co. Nos. 147,334-40; Oct. 11.
- Mattresses, pillows, bed-springs, brass and iron beds. Bay City Spring & Mattress Co. No. 147,837; Nov. 1.
- Mattresses, pillows, box-springs. International Bedding Co. Inc. Nos. 148,448-9; Nov. 15.



*Alphabetical list of trade-marks—Continued.*

- Mayonnaise. J. R. Berger. No. 140,079; Mar. 8; v. 284; p. 363.
- Mayonnaise. A. Dages. No. 144,110; June 21; v. 287; p. 586.
- Mayonnaise. J. H. Zetzsche. No. 145,879; Aug. 16; v. 289; p. 600.
- Mayonnaise, catsup, food-oils, &c. Escoffier Limited. No. 146,733; Sept. 20; v. 290; p. 633.
- Mayonnaise-machines. National Mayonnaise Machine Co. No. 147,504; Oct. 18.
- Mayonnaise, mince-meat, salted peanuts. Heintz, Merkle & Company. No. 147,621; Oct. 25.
- Meal, Cotton-seed. Industrial Cotton Oil Properties. No. 146,259; Sept. 6; v. 290; p. 200.
- Measures for pumps. The Avon Specialties Manufacturing Company. No. 138,893; Jan. 11; v. 282; p. 379.
- Measuring and scientific appliances. A. Baumann. No. 142,447; May 17; v. 286; p. 624.
- Measuring appliances. Precision Instrument Company. No. 143,268; May 24; v. 286; p. 859.
- Measuring machines for dispensing liquids, Self. P. B. Elkins. No. 139,527; Feb. 8; v. 283; p. 350.
- Measuring rules and tape. Lufkin Rule Company. Nos. 145,273-4; July 26; v. 288; p. 823.
- Meat extract. Bonovin Limited. No. 144,177; June 28; v. 287; p. 773.
- Meat extract. Jardox Limited. No. 144,814; July 19; v. 288; p. 619.
- Meat food product. Armstrong Packing Company. No. 141,848; May 3; v. 286; p. 358.
- Meat-juice presses and food-choppers. Landers, Frary & Clark. No. 147,225; Oct. 4.
- Meats and dried sausage. Smoked and dried. B. Meier & Son. No. 146,816; Sept. 20; v. 290; p. 635.
- Meats and lard. G. Lang. No. 144,325; June 28; v. 287; p. 781.
- Meats, Fresh, smoked, and salted. G. Lang. No. 146,796; Sept. 20; v. 290; p. 635.
- Meats, Smoked. Robe & Brother. No. 143,731; June 7; v. 287; p. 187.
- Medical and surgical appliances. H. L. De Zeng. No. 148,575; Nov. 15.
- Medical and surgical appliances. Keystone Surgical Supply Co. No. 143,378; May 31; v. 286; p. 1050.
- Medical compound. Puritan Drug Company. No. 143,141; May 24; v. 286; p. 850.
- Medical compound in salve form. Eastmah Chemical Co. No. 147,090; Oct. 4.
- Medical journal, Monthly. Medical Council. No. 145,566; Aug. 9; v. 289; p. 408.
- Medical preparation. E. J. Swann. No. 144,332; June 28; v. 287; p. 782.
- Medical preparation for ailments of the stomach, liver, &c. P. D. Phillips. No. 139,692; Feb. 8; v. 283; p. 358.
- Medical preparation for asthma. W. M. Roberts. No. 147,154; Oct. 4.
- Medical preparation for colds, neuralgia, &c. A. J. Holliday. No. 145,966; Aug. 23; v. 289; p. 788.
- Medical preparation for external use. L. W. Cummings. No. 140,583; Mar. 22; v. 284; p. 744.
- Medical preparation for hog-cholera. A. Hunt. No. 138,826; Jan. 11; v. 282; p. 376.
- Medical preparation for rheumatism. Co-Rhu-Cu Medicine Company. No. 148,382; Nov. 15.
- Medical preparations. Brame Drug Company. No. 141,734; Apr. 26; v. 285; p. 786.
- Medical preparations. W. Chubbuck. No. 141,517; Apr. 26; v. 285; p. 778.
- Medical substance in powdered form, Antiseptic. Winthrop Chemical Company. No. 145,873; Aug. 16; v. 289; p. 599.
- Medical substances, Antigonorrhoeic and astringent. Winthrop Chemical Company. No. 146,022; Aug. 23; v. 289; p. 790.
- Medicated salt brick for live stock. Blackman Stock Remedy Co. No. 149,001; Dec. 6.
- Medicated tonic for poultry. Cackle Dust Laboratories. No. 143,565; June 7; v. 287; p. 182.
- Medicated wine for use as a general tonic. Winox, Limited. No. 148,315; Nov. 8.
- Medicinal and chemical preparations, Certain. Henry B. Gilpin Co. No. 148,655; Nov. 22.
- Medicinal and pharmaceutical compounds. H. K. Mulford Co. No. 144,013; June 21; v. 287; p. 581.
- Medicinal and pharmaceutical preparations. Bellevue Specialty Company. No. 144,346; July 5; v. 288; p. 191.
- Medicinal and pharmaceutical preparations. F. H. Hoyt. No. 141,971; May 3; v. 286; p. 185.
- Medicinal and pharmaceutical preparations. Kaufmann Department Stores. No. 143,987; June 21; v. 287; p. 580.
- Medicinal and pharmaceutical preparations. M. L. Moore. No. 145,001; July 19; v. 288; p. 627.
- Medicinal and pharmaceutical preparations. Owl Drug Company. No. 146,830; Sept. 20; v. 290; p. 636.
- Medicinal and pharmaceutical preparations, Certain. Prontic Druggists, Inc. No. 148,727; Nov. 22.
- Medicinal and scalp preparation, Certain. P. R. Jones. No. 149,964; Dec. 27.
- Medicinal arsenical compounds and products. Lowy Laboratory. No. 140,427; Mar. 15; v. 284; p. 582.
- Medicinal and toilet preparations. E. A. Buchholz. No. 142,950; May 24; v. 286; p. 844.
- Medicinal and toilet preparations. Ilaria Brothers. No. 143,052; May 24; v. 286; p. 847.
- Medicinal and toilet preparations. J. J. Moore. No. 147,014; Sept. 27; v. 290; p. 805.
- Medicinal and toilet preparations. G. F. Spaeth. No. 143,478; May 31; v. 286; p. 1053.
- Medicinal and toilet preparations. E. J. Townsend. No. 144,286; June 28; v. 287; p. 777.
- Medicinal and toilet preparations, Certain. Plough Chemical Company. Nos. 148,723-4; Nov. 22.
- Medicinal antiseptic for hypodermic medication. Sharp & Dohme. No. 144,053; June 21; v. 287; p. 582.
- Medicinal, chemical, and pharmaceutical preparations, Certain. National Drug Stores Corporation. No. 147,652; Oct. 25.
- Medical compound. Dermatological Research Laboratories. No. 143,931; June 21; v. 287; p. 578.
- Medical compound. Ware Chemical Co. No. 144,490; July 5; v. 288; p. 196.
- Medical compound, Certain. Sharp & Dohme. No. 147,166; Oct. 4.
- Medicinal compound for appendicitis, &c. Aurora Medicine Company. No. 142,920; May 24; v. 286; p. 843.
- Medicinal compound for the treatment of tuberculosis. Cawthorne Tubercular Treatment, Inc. No. 141,887; May 3; v. 286; p. 183.
- Medicinal ointments. Owl Drug Company. No. 143,865; June 14; v. 287; p. 401.
- Medicinal pills. Dr. W. Seibert. No. 139,033; Jan. 18; v. 282; p. 556.
- Medicinal plaster. Pan-American Pharmaceutical Co. No. 143,128; May 24; v. 286; p. 850.
- Medicinal powder. H. C. Trumbower. No. 148,548; Nov. 15.
- Medicinal powders and tablets. Ware Chemical Co. No. 145,855; Aug. 16; v. 289; p. 599.
- Medicinal preparation. J. W. Andy. No. 144,511; July 5; v. 288; p. 197.
- Medicinal preparation. C. Bardos, Jr. No. 142,235; May 10; v. 286; p. 403.
- Medicinal preparation. Bellingham Chemical Co. No. 145,928; Aug. 23; v. 289; p. 787.
- Medicinal preparation. J. Berlin. No. 149,840; Dec. 27.
- Medicinal preparation. C. J. Brown. No. 147,840; Nov. 1.
- Medicinal preparation. Calco Chemical Company. No. 146,961; Sept. 27; v. 290; p. 803.
- Medicinal preparation. W. J. Caron. No. 143,298; May 31; v. 286; p. 1047.
- Medicinal preparation. Chemische Fabrik vormals Sandoz. No. 144,233; June 28; v. 287; p. 775.
- Medicinal preparation. Chemische Fabrik vormals Sandoz. No. 149,877; Dec. 27.
- Medicinal preparation. J. A. Clements. No. 140,096; Mar. 8; v. 284; p. 364.
- Medicinal preparation. Cur-Zon Company. No. 145,942; Aug. 23; v. 289; p. 787.
- Medicinal preparation. Dawson Pharmacal Company. No. 139,674; Feb. 8; v. 283; p. 356.
- Medicinal preparation. W. E. Dayton. No. 148,387; Nov. 15.
- Medicinal preparation. J. Di Salvo. No. 143,457; May 31; v. 286; p. 1052.
- Medicinal preparation. A. J. Doherty. No. 145,946; Aug. 23; v. 289; p. 787.
- Medicinal preparation. Dry Oil Products Ltd. No. 147,999; Nov. 8.
- Medicinal preparation. Esko Products Company. No. 144,387; July 5; v. 288; p. 192.
- Medicinal preparation. G. Felles. No. 149,051; Dec. 6.
- Medicinal preparation. Genuine Haarlem Oil Mfg. Co. No. 146,465; Sept. 6; v. 290; p. 211.
- Medicinal preparation. E. Govett. No. 138,629; Jan. 4; v. 282; p. 187.
- Medicinal preparation. Griffith Alverson Co. No. 141,064; Apr. 5; v. 285; p. 187.
- Medicinal preparation. Dr. T. J. Haile & Co. No. 141,953; May 3; v. 286; p. 185.
- Medicinal preparation. Hall & Ruckel. No. 146,992; Sept. 27; v. 290; p. 804.
- Medicinal preparation. V. Halper. No. 149,938; Dec. 27.
- Medicinal preparation. W. L. Haralson. No. 144,413; July 5; v. 288; p. 193.
- Medicinal preparation. J. L. Herpich. No. 141,962; May 3; v. 286; p. 185.
- Medicinal preparation. R. G. James. No. 143,055; May 24; v. 286; p. 847.
- Medicinal preparation. J. de Jesús. No. 143,056; May 24; v. 286; p. 847.
- Medicinal preparation. John Novak Company. No. 140,662; Mar. 22; v. 284; p. 746.
- Medicinal preparation. J. P. Kayatta. No. 146,111; Aug. 30; v. 289; p. 1014.
- Medicinal preparation. The Kretusis Co. No. 138,986; Jan. 18; v. 282; p. 554.
- Medicinal preparation. Les Etablissements Poulenç frères Société Anonyme. No. 143,386; May 31; v. 286; p. 1050.
- Medicinal preparation. E. H. Marcy Laboratories. No. 139,001; Jan. 18; v. 282; p. 555.
- Medicinal preparation. C. E. McCuiston. No. 140,008; Mar. 1; v. 284; p. 174.
- Medicinal preparation. J. J. McIntyre. No. 144,431; July 5; v. 288; p. 194.



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- Medicinal preparation. J. J. McNulty, M. D. No. 147,232; Oct. 4.
- Medicinal preparation. N. J. Molnar. No. 148,167; Nov. 8.
- Medicinal preparation. National Pharmacy Co. No. 143,411; May 31; v. 286; p. 1051.
- Medicinal preparation. J. J. Norton. No. 144,447; July 5; v. 288; p. 194.
- Medicinal preparation. F. J. O'Neill Medicine Co. No. 143,864; June 14; v. 287; p. 401.
- Medicinal preparation. "P. A. C." Laboratories. No. 145,989; Aug. 23; v. 289; p. 789.
- Medicinal preparation. D. G. Puderbaugh. No. 147,811; Nov. 1.
- Medicinal preparation. Reho Drug Manufacturing Company. No. 143,727; June 7; v. 287; p. 187.
- Medicinal preparation. J. Robert. No. 146,342; Sept. 6; v. 290; p. 202.
- Medicinal preparation. W. B. Robinson, M. D. No. 148,239; Nov. 8.
- Medicinal preparation. A. Ross. No. 144,270; June 28; v. 287; p. 776.
- Medicinal preparation. Rudco Drug Co. No. 148,244; Nov. 8.
- Medicinal preparation. E. Russell. No. 143,153; May 24; v. 286; p. 850.
- Medicinal preparation. J. Seutzlas. No. 140,678; Mar. 22; v. 284; p. 747.
- Medicinal preparation. H. Solomon. No. 149,240; Dec. 6.
- Medicinal preparation. A. W. Steinhoff. No. 141,050; Mar. 29; v. 284; p. 954.
- Medicinal preparation. M. M. Taylor. No. 140,992; Mar. 29; v. 284; p. 949.
- Medicinal preparation. Ultra Refined Crude Products Company. No. 141,704; Apr. 26; v. 285; p. 784.
- Medicinal preparation. Van Vleet-Mansfield Drug Co. No. 149,538; Dec. 13.
- Medicinal preparation. T. A. Walsh. Nos. 142,167-8; May 3; v. 286; p. 192.
- Medicinal preparation. D. R. Westendorf. No. 144,648; July 12; v. 288; p. 426.
- Medicinal preparation. A. S. Whitfield. No. 149,289; Dec. 6.
- Medicinal preparation. William S. Merrell Company. No. 140,485; Mar. 15; v. 284; p. 584.
- Medicinal preparation. M. M. Wolcott. No. 141,053; Mar. 29; v. 284; p. 954.
- Medicinal preparation. E. Wolfram. No. 149,296; Dec. 6.
- Medicinal preparation. Zerbst Pharmaceutical Co. No. 143,517; May 31; v. 286; p. 1054.
- Medicinal preparation. Certain. J. W. Griffin. No. 148,659; Nov. 22.
- Medicinal preparation. Certain. V. Halper. Nos. 148,660-1; Nov. 22.
- Medicinal preparation. Certain. Myers-Harbrough Company. No. 148,766; Nov. 22.
- Medicinal preparation. Certain. Orium Company. No. 150,041; Dec. 27.
- Medicinal preparation. Certain. B. L. Palleyesch. No. 150,042; Dec. 27.
- Medicinal preparation. Certain. Puritan Drug Mfg. Co. Nos. 149,207-8; Dec. 6.
- Medicinal preparation. Certain. E. P. Robinson. No. 148,733; Nov. 22.
- Medicinal preparation. Certain. San Antonio Drug Co. No. 147,029; Sept. 27; v. 290; p. 805.
- Medicinal preparation. Certain. Soderseine Company of North America. No. 148,741; Nov. 22.
- Medicinal preparation. Certain. U-Rub-It Chemical Co. No. 147,180; Oct. 4.
- Medicinal preparation. Certain. Weldon Drug Co. No. 148,721; Nov. 22.
- Medicinal preparation. Certain. York Drug Store. No. 150,188; Dec. 27.
- Medicinal preparation for asthma, whooping-cough, bronchitis, &c. J. H. Hahn. No. 140,135; Mar. 8; v. 284; p. 365.
- Medicinal preparation for colds, &c. International Consolidated Chemical Corporation. No. 140,148; Mar. 8; v. 284; p. 365.
- Medicinal preparation for constipation. Delson Chemical Co. No. 146,079; Aug. 30; v. 289; p. 1015.
- Medicinal preparation for constipation, mild stomach, liver, &c., troubles. J. L. Biddix. No. 139,119; Jan. 25; v. 282; p. 733.
- Medicinal preparation for coughs, &c. H. R. Merck. No. 142,022; May 3; v. 286; p. 187.
- Medicinal preparation for coughs, colds, &c. A. L. Sutton. No. 142,150; May 3; v. 286; p. 191.
- Medicinal preparation for diarrhea, &c. S. Lolacano. No. 144,599; July 12; v. 288; p. 424.
- Medicinal preparation for external use. J. W. Humphreys. No. 139,145; Jan. 25; v. 282; p. 734.
- Medicinal preparation for headache. R. L. Crowe. No. 138,800; Jan. 11; v. 282; p. 376.
- Medicinal preparation for headache, &c. O. B. Strub. No. 148,543; Nov. 15.
- Medicinal preparation for indigestion, &c. A. W. Chapell. No. 144,183; June 28; v. 287; p. 773.
- Medicinal preparation for indigestion. W. L. Haralson. No. 143,972; June 21; v. 287; p. 580.
- Medicinal preparation for indigestion, dyspepsia, &c. W. G. Holley. No. 141,965; May 3; v. 286; p. 185.
- Medicinal preparation for influenza. D. A. Finch. No. 143,002; May 24; v. 286; p. 846.
- Medicinal preparation for intestinal troubles and nerve and reconstruction tablets. F. Herrera. No. 143,041; May 24; v. 286; p. 847.
- Medicinal preparation for liver. S. Pfeiffer Manufacturing Co. No. 139,868; Feb. 22; v. 283; p. 754.
- Medicinal preparation for piles, hemorrhages of the bowels, boils, &c. D. Girard. No. 146,235; Sept. 6; v. 290; p. 199.
- Medicinal preparation for rheumatism, &c. L. B. Lewis. No. 145,719; Aug. 16; v. 289; p. 595.
- Medicinal preparation for rheumatism, grippe, &c. Riedel & Co. No. 142,109; May 3; v. 286; p. 190.
- Medicinal preparation for rheumatism, lumbago, &c. No. Ruma Medicine Co. No. 148,695; Nov. 22.
- Medicinal preparation for syphilis, &c. Dr. William E. Craig. No. 147,200; Oct. 11.
- Medicinal preparation for the hair and scalp. A. J. Trasso. No. 146,149; Aug. 30; v. 289; p. 1015.
- Medicinal preparation for tonsillitis, sore throat, &c. L. L. Hoback. No. 149,946; Dec. 27.
- Medicinal preparation for toothache. Arkadia Medicine Company. No. 141,725; Apr. 26; v. 285; p. 785.
- Medicinal preparation for treatment of biliousness and constipation. H. C. Wagner. No. 149,280; Dec. 6.
- Medicinal preparation for treatment of chills. C. Johnston. No. 149,963; Dec. 27.
- Medicinal preparation for treatment of colds and the liver. Rex Relief Company. No. 139,027; Jan. 18; v. 282; p. 556.
- Medicinal preparation for treatment of infantile troubles. Dr. M. F. Groves Son & Co. No. 146,991; Sept. 27; v. 290; p. 804.
- Medicinal preparation for treatment of rheumatism and neuritis. W. A. Abbott. No. 142,909; May 24; v. 286; p. 843.
- Medicinal preparation for treatment of the liver and kidneys. Rose Drug Company. No. 145,800; Aug. 16; v. 289; p. 597.
- Medicinal preparation for tuberculosis. J. Robert. No. 141,647; Apr. 26; v. 285; p. 782.
- Medicinal preparation for tuberculosis, Liquid. H. W. Norman. No. 146,312; Sept. 6; v. 290; p. 201.
- Medicinal preparation for use in cases of neuritis. J. J. Hudson. No. 140,145; Mar. 8; v. 284; p. 365.
- Medicinal preparation for use in inhalers, Liquid. E. M. Greenfield. No. 147,106; Oct. 4.
- Medicinal preparation for use in the treatment of St. Vitus's dance. J. Tockstein. No. 143,492; May 31; v. 286; p. 1053.
- Medicinal preparation, Tooth-paste, and mouth-wash. Kaffir Chemical Laboratories. No. 147,116; Oct. 4.
- Medicinal preparation used as a liniment. H. S. Soper. No. 140,218; Mar. 8; v. 284; p. 367.
- Medicinal preparation used as a remedy for coughs and colds. A. D. Holland. No. 145,691; Aug. 16; v. 289; p. 594.
- Medicinal preparation which acts on the liver and bowels. O. H. Lovell. No. 138,996; Jan. 18; v. 282; p. 555.
- Medicinal preparations. E. C. Adams. No. 146,664; Sept. 20; v. 290; p. 631.
- Medicinal preparations. Alligator Liniment Company. No. 145,241; July 26; v. 288; p. 819.
- Medicinal preparations. Boericke & Tafel. No. 147,932; Nov. 8.
- Medicinal preparations. Buffington's Incorporated. No. 144,359; July 5; v. 288; p. 191.
- Medicinal preparations. Mrs. G. M. Causey. No. 148,372; Nov. 15.
- Medicinal preparations. J. W. Douthitt. No. 141,926; May 3; v. 286; p. 184.
- Medicinal preparations. S. Drain, M. D. No. 142,126; May 3; v. 286; p. 190.
- Medicinal preparations. Eli Lilly and Company. No. 144,210; June 28; v. 287; p. 774.
- Medicinal preparations. Five Point Company. No. 139,793; Feb. 22; v. 283; p. 752.
- Medicinal preparations. Friedrich-Friedrich Chemical Company. No. 144,572; July 12; v. 288; p. 424.
- Medicinal preparations. Dr. C. Gee Wo. No. 145,367; Aug. 2; v. 289; p. 179.
- Medicinal preparations. J. E. Ghrist. No. 143,016; May 24; v. 286; p. 846.
- Medicinal preparations. W. E. Hailey. No. 140,136; Mar. 8; v. 284; p. 365.
- Medicinal preparations. G. Harris. No. 145,961; Aug. 23; v. 289; p. 788.
- Medicinal preparations. J. P. Hervey. No. 139,994; Mar. 1; v. 284; p. 174.
- Medicinal preparations. R. T. Jones. No. 141,985; May 3; v. 286; p. 186.
- Medicinal preparations. O. B. H. Khan. No. 141,992; May 3; v. 286; p. 186.
- Medicinal preparations. Kovis Company. No. 141,399; Apr. 19; v. 285; p. 568.
- Medicinal preparations. Kruger Remedy Company. No. 140,000; Mar. 1; v. 284; p. 174.
- Medicinal preparations. F. S. Mardon. No. 143,077; May 24; v. 286; p. 848.
- Medicinal preparations. H. E. McLean. No. 145,737; Aug. 16; v. 289; p. 595.
- Medicinal preparations. Na-Hom Laboratory. No. 145,984; Aug. 23; v. 289; p. 788.



- Medicinal preparations. Osgood Chemical Co. No. 140,190; Mar. 8; v. 284; p. 366.
- Medicinal preparations. J. Paladino. No. 146,832; Sept. 20; v. 290; p. 636.
- Medicinal preparations. Pulvola Chemical Company. No. 139,870; Feb. 22; v. 283; p. 754.
- Medicinal preparations. C. W. Rovegno. No. 144,464; July 5; v. 288; p. 195.
- Medicinal preparations. M. L. Sewell. No. 145,008; July 19; v. 288; p. 628.
- Medicinal preparations. Shores-Mueller Company. No. 144,475; July 5; v. 288; p. 195.
- Medicinal preparations. Society of Chemical Industry in Basle. No. 142,139; May 3; v. 286; p. 191.
- Medicinal preparations. S. G. Vryonis. No. 144,488; July 5; v. 288; p. 195.
- Medicinal preparations. T. A. Walsh. No. 143,213; May 24; v. 286; p. 852.
- Medicinal preparations. M. Weinsbenker. No. 141,716; Apr. 26; v. 285; p. 784.
- Medicinal preparations. William S. Merrell Company. No. 143,087; May 24; v. 286; p. 848.
- Medicinal preparations. World's Medicine Co. No. 141,277; Apr. 12; v. 285; p. 385.
- Medicinal preparations. Certain. Charles Alfred Waldeck Company. No. 150,160; Dec. 27.
- Medicinal preparations. Certain. Dill Company. No. 146,727; Sept. 20; v. 290; p. 633.
- Medicinal preparations. Certain. C. O. Fauda. No. 148,831; Nov. 29.
- Medicinal preparations. Certain. H. B. Goldman. No. 146,752; Sept. 20; v. 290; p. 633.
- Medicinal preparations. Certain. C. F. Jones. No. 148,873; Nov. 29.
- Medicinal preparations. Certain. O. R. Lyons. No. 148,686; Nov. 22.
- Medicinal preparations. Certain. A. A. Pearson. No. 147,017; Sept. 27; v. 290; p. 805.
- Medicinal preparations. Certain. William R. Warner & Co. No. 148,719; Nov. 22.
- Medicinal preparations for affections of the eye. W. H. Rutland. No. 150,092; Dec. 27.
- Medicinal preparations for eczema. W. E. Benike. No. 146,687; Sept. 20; v. 290; p. 631.
- Medicinal preparations for family use and live stock. Bickmore Company, The. No. 148,571; Nov. 15.
- Medicinal preparations for stomach and bowel troubles, blood-purifier, &c. Golden Seal Laboratories. No. 139,801; Feb. 22; v. 283; p. 752.
- Medicinal preparations for the treatment of bot and worm ailments in horses, &c. Dakota Chemical Company. No. 138,801; Jan. 11; v. 282; p. 376.
- Medicinal preparations used as laxatives. J. H. Mueller. No. 144,613; July 12; v. 288; p. 425.
- Medicinal salve. Certain. Great Northern Supply Company. No. 148,657; Nov. 22.
- Medicinal tablet for certain purposes. J. G. Dodson. No. 149,764; Dec. 20.
- Medicinal tablets. John Wyeth & Brother. No. 145,877; Aug. 16; v. 289; p. 600.
- Medicinal, toilet, and chemical preparations. Certain. International Drug Company. No. 148,868; Nov. 29.
- Medicinal, toilet, and pharmaceutical preparations. Chesebrough Manufacturing Company. Nos. 140,345-6; Mar. 15; v. 284; p. 580.
- Medicinal tonic. W. F. Harris. No. 140,138; Mar. 8; v. 284; p. 365.
- Medicinal tonic. Certain. B. J. Bruns. No. 147,075; Oct. 4.
- Medicinal treatment for drunkenness. Dr. M. F. Groves Son & Co. No. 144,407; July 5; v. 288; p. 193.
- Medicinal treatment for infantile troubles. Dr. M. F. Groves Son & Co. No. 144,408; July 5; v. 288; p. 193.
- Medicinal treatment for rheumatism, &c. A. R. Stanley. No. 142,146; May 3; v. 286; p. 191.
- Medicine. Creomulsion Company. No. 144,186; June 28; v. 287; p. 774.
- Medicine. J. W. Keister & Son. No. 140,854; Mar. 29; v. 284; p. 945.
- Medicine. A. F. Lippl. No. 140,872; Mar. 29; v. 284; p. 945.
- Medicine. Needham Products Company. No. 147,137; Oct. 4.
- Medicine and tonic for stock. Worm. H. A. Haynes. No. 143,361; May 31; v. 286; p. 1049.
- Medicine and pill. Stomach. H. C. Kienzle. No. 139,828; Feb. 22; v. 283; p. 753.
- Medicine applied externally to relieve pain. A. J. Leo. No. 143,070; May 24; v. 286; p. 848.
- Medicine containing capsules for vaginal treatment. D. L. Knight. No. 141,997; May 3; v. 286; p. 186.
- Medicine. Digestive. N. Rippenbein. No. 146,134; Aug. 30; v. 289; p. 1015.
- Medicine for aiding digestion. J. L. Hixon. No. 139,681; Feb. 8; v. 283; p. 357.
- Medicine for an itch treatment. Y. Ching. No. 143,791; June 7; v. 287; p. 190.
- Medicine for blind foul and foot-halt in cattle. C. E. De Forest. No. 142,980; May 24; v. 286; p. 845.
- Medicine for certain purposes. Allan J. Dash Company. No. 148,755; Nov. 22.
- Medicine for cholera and roup. H. C. Ford. No. 149,922; Dec. 27.
- Medicine for cholera, &c., in poultry. F. A. Beede. No. 145,606; Aug. 16; v. 289; p. 591.
- Medicine for constipation, fever, &c. Dusco Co. No. 146,984; Sept. 27; v. 290; p. 804.
- Medicine for coughs and colds. Hollander-Koshland Co. No. 144,796; July 19; v. 288; p. 618.
- Medicine for coughs, bronchitis, &c. J. H. Lee. No. 146,279; Sept. 6; v. 290; p. 200.
- Medicine for coughs, catarrh, &c. E. Dahlin. No. 146,208; Sept. 6; v. 290; p. 198.
- Medicine for coughs, colds, and bronchial affections. Frederick Stearns & Company. No. 145,823; Aug. 16; v. 289; p. 598.
- Medicine for coughs, colds, and bronchitis. G. H. W. Reither. No. 145,902; Aug. 16; v. 289; p. 603.
- Medicine for deafness. V. A. Bioleck. No. 145,930; Aug. 23; v. 289; p. 787.
- Medicine for deafness, throat and ear troubles. Reece & McNeil. No. 140,194; Mar. 8; v. 284; p. 367.
- Medicine for disease of the eye. J. Gozda. No. 143,027; May 24; v. 286; p. 846.
- Medicine for dyspepsia. B. J. Perkins. No. 143,134; May 24; v. 286; p. 850.
- Medicine for eczema. A. Hudson and Sons. No. 141,972; May 3; v. 286; p. 185.
- Medicine for eczema and all skin and scalp diseases. B. F. Ott. No. 148,700; Nov. 22.
- Medicine for epilepsy and nervous troubles. M. Nicholson. No. 146,311; Sept. 6; v. 290; p. 201.
- Medicine for headache. J. M. Chesnutt. No. 141,335; Apr. 19; v. 285; p. 566.
- Medicine for hypodermic use for spasm of any part of urinary tract. Lloyd Brothers. No. 138,993; Jan. 18; v. 282; p. 555.
- Medicine for indigestion, &c. W. F. Severa Co. No. 147,162; Oct. 4.
- Medicine for indigestion and dyspepsia. Redhill Mfg. Co. No. 150,071; Dec. 27.
- Medicine for influenza, colds, and grippe. Hillman Drug Co. No. 141,572; Apr. 26; v. 285; p. 780.
- Medicine for influenza, colds, cholera, and pneumonia. L. Kubanek. No. 148,880; Nov. 29.
- Medicine for itching, sore, swollen, tired, &c., feet. E. P. Dillon. No. 139,977; Mar. 1; v. 284; p. 173.
- Medicine for kidney, liver, and stomach disorders. Kollins Chemical Co. No. 143,660; June 7; v. 287; p. 185.
- Medicine for kidneys and bladder. W. F. Severa Co. No. 147,163; Oct. 4.
- Medicine for lung troubles, tuberculosis, &c. W. Rath. No. 146,598; Sept. 13; v. 290; p. 422.
- Medicine for malaria. Vino Medical Co. No. 146,055; Aug. 23; v. 289; p. 795.
- Medicine for nervous and sick headache. J. B. McManes. No. 142,378; May 10; v. 286; p. 409.
- Medicine for phthisis, neurasthenia, constipation, &c. Reed & Carnrick. No. 148,939; Nov. 29.
- Medicine for poultry. Certain. L. R. Wellington. No. 147,186; Oct. 4.
- Medicine for pyorrhea. Liquid. Pyo-Rem Chemical Company. No. 140,941; Mar. 29; v. 284; p. 947.
- Medicine for relief of sufferers of cold and consumption. T. F. Boegeke. No. 147,752; Nov. 1.
- Medicine for relieving influenza, &c. F. Sarapas. No. 148,252; Nov. 8.
- Medicine for rheumatism. C. Ezerskis. No. 146,219; Sept. 6; v. 290; p. 199.
- Medicine for rheumatism. J. Sorokowski. No. 143,476; May 31; v. 286; p. 1053.
- Medicine for rheumatism and gout. A. Pellegrino. No. 144,623; July 12; v. 288; p. 425.
- Medicine for rheumatism, gout, &c. Baltimore Scientific Products Co. No. 144,340; July 5; v. 288; p. 191.
- Medicine for rheumatism, gout, sciatica, lumbago, &c. Plough Chemical Company. No. 148,916; Nov. 29.
- Medicine for rheumatism, neuralgia, &c., External. J. Sveda. No. 139,039; Jan. 18; v. 282; p. 556.
- Medicine for scours. I. White. No. 145,863; Aug. 16; v. 289; p. 599.
- Medicine for smallpox. W. Toland. No. 141,815; Apr. 26; v. 285; p. 794.
- Medicine for stomach and intestinal disorders. Pan American Chemical Company. No. 143,129; May 24; v. 286; p. 850.
- Medicine for stomach troubles and stones in the kidney. C. Bulubasis. No. 144,360; July 5; v. 288; p. 191.
- Medicine for swine. Worm. Continental Serum Laboratories Co. No. 142,970; May 24; v. 286; p. 845.
- Medicine for the blood. W. F. Severa Co. No. 147,034; Sept. 27; v. 290; p. 806.
- Medicine for the kidneys and bladder. Mrs. K. G. Ellis. No. 146,985; Sept. 27; v. 290; p. 804.
- Medicine for the liver. J. D. Gregg. No. 148,658; Nov. 22.
- Medicine for the liver and bowels. M-Z Pharmacal Co. No. 148,171; Nov. 8.
- Medicine for the nerves and blood. M. F. Pratt. No. 141,777; Apr. 26; v. 285; p. 790.
- Medicine for the respiratory organs. P. Herbert. No. 141,961; May 3; v. 286; p. 185.
- Medicine for the treatment of androsis. M. Fraiberger. No. 138,967; Jan. 18; v. 282; p. 554.



*Alphabetical list of trade-marks—Continued.*

- Medicine for the treatment of lungs. Z. Hester. No. 146,247; Sept. 6; v. 290; p. 200.
- Medicine for the treatment of scrofula and skin affections. M. Pollard. No. 141,641; Apr. 26; v. 285; p. 782.
- Medicine for tired and aching feet. O. E. Lee. No. 143,677; June 7; v. 287; p. 185.
- Medicine for torpid liver, anemia, &c. D. Swift. No. 145,831; Aug. 16; v. 289; p. 598.
- Medicine for treating gall-stones, constipation, &c. Zatox Products Co. No. 140,249; Mar. 8; v. 284; p. 368.
- Medicine for treatment of asthma. Ingalls Brothers. No. 148,867; Nov. 29.
- Medicine for treatment of indigestion. Orange Chemical Co. No. 149,193; Dec. 6.
- Medicine for treatment of nervous system. L. A. Borget. No. 148,637; Nov. 22.
- Medicine for use in epilepsy and other nervous disorders. Converse Treatment Co. No. 147,086; Oct. 4.
- Medicine for venereal diseases. A. Carrillo. No. 138,795; Jan. 11; v. 282; p. 376.
- Medicine, Indigestion. J. I. Brunson. No. 149,005; Dec. 6.
- Medicine, Laxative. W. B. Cleves. No. 141,098; Apr. 12; v. 205; p. 380.
- Medicine, Laxative tonic. H. P. Wilkins. No. 148,772; Nov. 22.
- Medicine, Liquid eye. Marvel Eye Medicine Co. No. 142,018; May 3; v. 286; p. 187.
- Medicine, Liver. A. S. Williams. No. 141,018; Mar. 29; v. 284; p. 950.
- Medicine, Liver and stomach. Cox Medicine Company. No. 144,375; July 5; v. 288; p. 192.
- Medicine or bitters, Laxative. P. A. Baltranas. No. 138,942; Jan. 18; v. 282; p. 553.
- Medicine or preparation, Nerve. M. Pollard. No. 141,642; Apr. 26; v. 285; p. 782.
- Medicine, Prepared. K. Jinshichi. No. 149,968; Dec. 27.
- Medicine, Purgative. C. A. Francis. No. 139,982; Mar. 1; v. 284; p. 173.
- Medicine, Rheumatism. Anti-Uric Company. No. 147,538; Oct. 25.
- Medicine, Rheumatism. Sans-Ake Company. No. 140,428; Mar. 15; v. 284; p. 582.
- Medicine to be used in the treatment of gonorrhea. H. S. Scarborough. No. 138,858; Jan. 11; v. 282; p. 377.
- Medicine used as a general tonic, Indian root and herb. Re-cu-ma Medicine Co. No. 139,873; Feb. 22; v. 288; p. 754.
- Medicine used as a uterine sedative. F. Frazier. No. 145,952; Aug. 23; v. 289; p. 787.
- Medicine used in the treatment of indigestion and stomach troubles. J. W. Rogers. No. 138,921; Jan. 11; v. 282; p. 382.
- Medicines. Frederick Stearns & Co. No. 146,144; Aug. 30; v. 289; p. 1015.
- Medicines. A. F. Lippi. No. 140,873; Mar. 29; v. 284; p. 945.
- Medicines. Lloyd Brothers. No. 138,994; Jan. 18; v. 282; p. 555.
- Medicines. Republic Druggist Syndicate. No. 139,026; Jan. 18; v. 282; p. 556.
- Medicines. C. O. Snavely. No. 140,216; Mar. 8; v. 284; p. 367.
- Medicines and pharmaceutical preparations. Hessib-Ellis Drug Co. No. 141,376; Apr. 19; v. 285; p. 567.
- Medicines and pharmaceutical preparations. S. Nishiguchi. No. 143,120; May 24; v. 286; p. 849.
- Medicines for diseases of the tongue, mouth, and legs of cattle and horses. J. Sobolewski. No. 142,137; May 3; v. 286; p. 191.
- Medicines for rheumatism. A. P. W. Twombly. No. 149,269; Dec. 6.
- Medicines for the control of post-operative pain. Dental Pharmaceutical Co. No. 139,975; Mar. 1; v. 284; p. 173.
- Medicines, Home. Boericke & Runyon Co. No. 145,931; Aug. 23; v. 289; p. 787.
- Medicines, Laxative. A. J. White Limited. No. 146,017; Aug. 23; v. 289; p. 789.
- Medicines, Poultry and stock. Puritan Products Co. No. 143,434; May 31; v. 286; p. 1052.
- Medicines, Proprietary. Arrow Chemical Company. No. 149,824; Dec. 27.
- Medicines used as tonics and as mild laxatives. Vino Medical Co. No. 147,183; Oct. 4.
- Medicines, Veterinary. Farmers Veterinary Medical Company. No. 141,353; Apr. 19; v. 285; p. 566.
- Medicines, Veterinary. Humphreys Homeopathic Medicine Co. No. 140,838; Mar. 29; v. 284; p. 944.
- Medicines, Veterinary. J. H. Luff. No. 144,034; June 21; v. 287; p. 582.
- Memorandum and calendar pads, and pad-stands. G. W. Smith. No. 142,768; May 17; v. 286; p. 634.
- Men's, youths', and boys' jackets, vests, trousers, knickerbockers, overcoats, &c. S. Schneiders and Son. No. 140,674; Mar. 22; v. 280; p. 747.
- Mercury injection. P. R. Rincones, Jr., Co. No. 148,707; Nov. 22.
- Mercury used in dentistry. Hoover & Strong, Inc. No. 148,440; Nov. 15.
- Metal and wood working machines and tools. Oliver Machinery Co. No. 138,916; Jan. 11; v. 282; p. 382.
- Metal, Babbitt. Hoyt Metal Company. Nos. 142,275-6; May 10; v. 286; p. 404.
- Metal, Babbitt. Hoyt Metal Company. Nos. 144,122-3; June 21; v. 287; p. 587.
- Metal, Babbitt. Kansas City Smelting Co. No. 148,103; Nov. 8.
- Metal, Babbitt. Magnolia Metal Co. No. 140,283; Mar. 8; v. 284; p. 372.
- Metal, Babbitt. More-Jones Brass & Metal Company. No. 141,784; Apr. 26; v. 285; p. 791.
- Metal, Babbitt. More-Jones Brass & Metal Company. Nos. 145,156-9; July 26; v. 288; p. 815.
- Metal buildings and metal-building sections. International Housing Corporation. No. 149,118; Dec. 6.
- Metal cans or receptacles for waste material. Sanitary Receiver Company. No. 143,162; May 24; v. 286; p. 851.
- Metal castings. Ohio Steel Foundry Company. No. 150,034; Dec. 27.
- Metal castings for dental work. J. H. Tuttle. No. 146,613; Sept. 13; v. 290; p. 423.
- Metal ceilings and shingles, &c. Wheeling Corrugating Company. No. 146,939; Sept. 20; v. 290; p. 643.
- Metal-cutting band-saw machines. Metal Saw and Machine Company. Nos. 144,608-9; July 12; v. 288; p. 425.
- Metal-cutting machinery, Compound for cooling the tools of. Eastbay Chemical Company. No. 143,323; May 31; v. 286; p. 1048.
- Metal-cutting machinery, Compounds for cooling the tools of. Standard Chemical Co. No. 143,481; May 31; v. 286; p. 1053.
- Metal-drilling machines. Aurora Tool Works. No. 147,914; Nov. 8.
- Metal goods. Herbert Terry & Sons. No. 138,877; Jan. 11; v. 282; p. 378.
- Metal-grinding machines. B. L. Schmidt Company. No. 149,230; Dec. 6.
- Metal-leaf. H. Marui & Co. No. 146,293; Sept. 6; v. 290; p. 201.
- Metal-molding machinery. Federal Malleable Company. No. 138,902; Jan. 11; v. 282; p. 380.
- Metal molds. Eppelsheimer & Co. No. 149,915; Dec. 27.
- Metal parts; dust-collecting and tubing machines, Machines for washing, pickling, and drying. W. Ely. No. 149,765; Dec. 20.
- Metal-pipe fittings. American Steel Foundries. No. 148,347; Nov. 15.
- Metal pipe joints or couplings. Jefferson Union Company. Nos. 144,124-5; June 21; v. 287; p. 588.
- Metal-polish. Bell Products Co. No. 145,322; Aug. 2; v. 289; p. 177.
- Metal-polish. G. E. Bennett. No. 144,697; July 19; v. 288; p. 615.
- Metal-polish. Borsum Bros. No. 140,561; Mar. 22; v. 284; p. 743.
- Metal-polish. Botanical Manufacturing Co. No. 139,769; Feb. 22; v. 283; p. 751.
- Metal-polish. L. R. Hopkins. No. 148,080; Nov. 8.
- Metal-polish, Liquid. Patton Paint Company. No. 141,636; Apr. 26; v. 285; p. 782.
- Metal products. H. A. Wilson Company. No. 142,177; May 3; v. 286; p. 192.
- Metal rods, Channel-shaped. Beckett, Laycock & Watkinson. No. 148,353; Nov. 15.
- Metal roll-leaf. Peerless Roll Leaf Co. No. 140,515; Mar. 15; v. 284; p. 585.
- Metal sheets and plain metal sheets, Corrugated. Newport Rolling Mill Co. No. 139,585; Feb. 22; v. 283; p. 754.
- Metal-shim stock. McCord Manufacturing Company. No. 141,769; Apr. 26; v. 285; p. 789.
- Metal strips. Trailtel Marble Co. No. 143,837; June 7; v. 287; p. 194.
- Metal surfaces, Composition for application to. Joseph Dixon Crucible Company. No. 140,366; Mar. 15; v. 284; p. 580.
- Metal-working and woodworking machines, Certain named. Manning, Maxwell & Moore. No. 139,576; Feb. 8; v. 283; p. 352.
- Metal working, boring, drilling, and milling machines. Giddings & Lewis Machine Tool Company. No. 146,233; Sept. 6; v. 290; p. 199.
- Metal-working grinding-machine. Bryant Chucking Grinder Company. No. 140,250; Mar. 8; v. 284; p. 369.
- Metal-working-machine tools. Gould & Eberhardt. No. 138,962; Jan. 18; v. 282; p. 554.
- Metal-working machines, &c., and tools for use in said machines. Betts Machine Company. No. 140,555; Mar. 22; v. 284; p. 743.
- Metal-working machinery. Buffalo Forge Company. No. 141,285; Apr. 12; v. 285; p. 387.
- Metal-working machinery and tools. Richard Bros. Die Works. No. 139,028; Jan. 18; v. 282; p. 556.
- Metal-working machinery and tools, Certain. E. W. Bliss Company. No. 149,847; Dec. 27.
- Metal-working milling tools and hobs. Goddard Tool Company. No. 149,578; Dec. 13.
- Metal-working presses. Bethlehem Steel Company. No. 148,570; Nov. 15.
- Metal-working, sugar-making, &c., machinery. Buffalo Forge Company. No. 147,943; Nov. 8.
- Metal-working tools. Gairing Tool Company. No. 143,341; May 31; v. 286; p. 1049.
- Metal-working tools. National Tool Company. No. 149,598; Dec. 13.



- Metal-working tools, vises, saws, &c., Certain. Easterbrook Allcard & Co. No. 148,821; Nov. 29.
- Metals, Antifriction. W. D. Elmore. No. 144,996; July 19; v. 288; p. 627.
- Metals, Certain non-ferrous. J. Briggs & Sons Co. No. 146,185; Sept. 6; v. 290; p. 198.
- Metals, Ferrous. Duquesne Steel Foundry Company. Nos. 147,589-91; Oct. 25.
- Metals, forgings, and castings, &c. Tri-State Engineering Co. No. 142,797; May 17; v. 286; p. 635.
- Metals, Non-ferrous. Banister & Pollard Co. No. 145,248; July 26; v. 288; p. 820.
- Metals, Non-ferrous. L. A. Cohn & Bro. No. 140,351; Mar. 15; v. 284; p. 580.
- Metals, Preparation for cleaning. Hanson & Van Winkle Company. No. 149,097; Dec. 6.
- Metals, types, slugs, type-castings, &c., Certain. Barnhart Brothers & Spindler. No. 147,475; Oct. 18.
- Metallic fenceposts. Chicago Steel Post Company. No. 138,955; Jan. 18; v. 282; p. 553.
- Metallic sheets for making molds or matrices. Conley Foil Company, The. No. 144,734; July 19; v. 288; p. 616.
- Meter, Watch, and industrial jewels, &c. H. D. Steel. No. 147,694; Oct. 25.
- Meters and instruments of precision, Certain. Metropolitan-Vickers Electrical Co. No. 147,384; Oct. 11.
- Meters, Pipe-line or flow. Wayne Oil Tank & Pump Company. No. 139,425; Feb. 1; v. 283; p. 172.
- Micrometer-callipers. J. T. Slocomb Co. No. 145,460; Aug. 2; v. 289; p. 181.
- Middies, dresses, and suits, &c., Ladies', misses', and children's. Carafiol-Silverman Garment Co. No. 141,343; Apr. 19; v. 285; p. 566.
- Middy-blouses. Crippen & Reid. No. 147,293; Oct. 11.
- Middy-blouses. Z. & S. Middy Co. No. 146,297; Sept. 6; v. 290; p. 201.
- Middy-blouses. New Freedom Manufacturing Company. No. 147,375; Oct. 11.
- Middy-blouses, house-dresses, &c. L. & H. Garment Mfg. Co. No. 142,293; May 10; v. 286; p. 405.
- Middy-blouses, skirts, house-dresses, &c. Miller, Baker & Levene. No. 140,488; Mar. 15; v. 284; p. 584.
- Middy-cloth in the piece. Sears, Roebuck and Co. No. 144,924; July 19; v. 288; p. 622.
- Milk and butter. Electropure Company. No. 148,008; Nov. 8.
- Milk and butter agitators. Kre-Mo Butter Agitator Company. No. 141,998; May 3; v. 286; p. 186.
- Milk-chocolate. Peter Cailler Kohler Swiss Chocolates Co. No. 142,387; May 10; v. 286; p. 410.
- Milk, Chocolate malted. Malt-A-Milk Company of America. No. 148,898; Nov. 29.
- Milk, Compound. Wisconsin Butter & Cheese Co. No. 148,749; Nov. 22.
- Milk, Condensed. Borden Company. No. 140,330; Mar. 15; v. 284; p. 579.
- Milk, Condensed. Chas. T. Stork and Co. No. 149,737; Dec. 20.
- Milk, Condensed. Nestlé's Food Company. No. 145,758; Aug. 16; v. 289; p. 596.
- Milk, Condensed. Nestlé's Food Company. No. 147,140; Oct. 4.
- Milk, Condensed. Northern New York Milk Corp'n. No. 148,187; Nov. 8.
- Milk, Condensed, evaporated, and powdered. Rico Milk Products Company. No. 146,049; Aug. 23; v. 289; p. 794.
- Milk, cream, condensed milk, buttermilk. Orange County Milk Association. No. 143,124; May 24; v. 286; p. 849.
- Milk, Evaporated. Henningsen Produce Company. No. 145,506; Aug. 2; v. 289; p. 184.
- Milk, Evaporated. Indiana Condensed Milk Company. No. 139,941; Feb. 22; v. 283; p. 759.
- Milk, Evaporated. T. C. Leedom. No. 142,008; May 3; v. 286; p. 186.
- Milk, Evaporated. Nestlé's Food Company. No. 147,139; Oct. 4.
- Milk, Evaporated. Northfield Milk Products Co. No. 139,465; Feb. 1; v. 283; p. 176.
- Milk, Evaporated. Tri-State Milk Products Co. No. 150,144; Dec. 27.
- Milk, Evaporated, condensed, and whole-cream. Helvetia Milk Condensing Company. Nos. 148,664-5; Nov. 22.
- Milk, Fermented. J. Melicow. No. 139,577; Feb. 8; v. 283; p. 352.
- Milk, ice-cream, Evaporated and powdered. United Dairy Association of Washington. No. 150,147; Dec. 27.
- Milk, Malted. Nestlé's Food Company. No. 145,757; Aug. 16; v. 289; p. 596.
- Milk mixed with coconut-oil, Condensed skimmed. The Universal Milk Company. Nos. 138,729-30; Jan. 4; v. 282; p. 190.
- Milk product, Concentrated liquid. Long Point Creameries Company. No. 139,159; Jan. 25; v. 282; p. 734.
- Milk products. Indiana Condensed Milk Company. No. 139,554; Feb. 8; v. 283; p. 351.
- Milk products and derivatives thereof. C. Dafen. No. 142,491; May 17; v. 286; p. 626.
- Milk products, ice-creams, &c. Froznpure Milk Products Co. No. 148,409; Nov. 15.
- Milk, Raw dry. Mackaywood Company. No. 143,679; June 7; v. 287; p. 185.
- Milk, Sterilized. Nestlé's Food Company. No. 145,759; Aug. 16; v. 289; p. 596.
- Milk, Sweetened condensed. American Milk Products Corporation. No. 147,262; Oct. 11.
- Milk, Sweetened condensed. American Milk Products Corporation. No. 147,264; Oct. 11.
- Milk, Unsweetened evaporated. American Milk Products Corporation. No. 147,261; Oct. 11.
- Milk, Unsweetened evaporated. American Milk Products Corporation. No. 147,263; Oct. 11.
- Milk, Unsweetened evaporated. American Milk Products Corporation. No. 148,978; Dec. 6.
- Milk, Unsweetened evaporated. Nestlé's Food Company. No. 148,906; Nov. 29.
- Milking-machines and milking-machine systems and parts thereof. Empire Cream Separator Company. No. 149,375; Dec. 13.
- Milking-machines and parts thereof. Universal Milking Machine Company. No. 147,709; Oct. 25.
- Mill-baskets, oil-cabinets, tool-chests, hose-reels, &c. Fairbanks Co. No. 149,380; Dec. 13.
- Mills for grinding grain, drugs, spices, &c. Orville Simpson Company. No. 139,363; Feb. 1; v. 283; p. 171.
- Milling-cutters. Pratt & Whitney Company. No. 140,522; Mar. 15; v. 284; p. 585.
- Milling cutters, lathe-bits, drills, &c. G. C. Goode Company. No. 149,079; Dec. 6.
- Mineral and aerated waters, &c., including ginger-beer. O'Brien & Co. No. 142,075; May 3; v. 286; p. 189.
- Mineral waters. J. Hall. No. 149,399; Dec. 13.
- Mineral waters. Schweppes, Limited. No. 144,921; July 19; v. 288; p. 622.
- Minnow-nets. W. H. Reisner Manufacturing Company. No. 150,074; Dec. 27.
- Minnows, Artificial. James Heddon's Sons. No. 146,246; Sept. 6; v. 290; p. 200.
- Mirrors, Adjustable, hand, stand, and wall. A. Calvert. No. 139,497; Feb. 8; v. 283; p. 349.
- Mirrors and picture-frames, Hand-. Newark Tortoise Shell Novelty Co. No. 143,818; June 7; v. 287; p. 192.
- Mirrors and windshields for use with cycles and motor-vehicles. View-. Clayton-Wright Ltd. No. 145,209; July 26; v. 288; p. 816.
- Mirrors for automobiles, &c., Rear-view. Chas. Kaufmann & Sons. No. 139,333; Feb. 1; v. 283; p. 170.
- Mirrors, Hand-. Fiberloid Corporation. No. 149,919; Dec. 27.
- Mirrors, Mouth-. Union Broach Co. No. 146,614; Sept. 13; v. 290; p. 423.
- Mirrors, Rear-view automobile. Automotive Parts Mfg. Co. No. 140,321; Mar. 15; v. 284; p. 579.
- Mirrors, stands, tea-wagons, &c. Tiffany & Company. No. 140,302; Mar. 8; v. 284; p. 374.
- Mitt used for cleaning and scouring. Jos. Brandt & Bro. No. 144,706; July 19; v. 288; p. 616.
- Mixtures employed as a shortening agent, Dry pulverulent. Dry Oil Products. No. 146,082; Aug. 30; v. 289; p. 1013.
- Moccasins. Bows Moccasin Company. No. 143,292; May 31; v. 286; p. 1047.
- Moccasins. Brockton Moccasin Co. No. 145,618; Aug. 16; v. 289; p. 592.
- Moccasins. Sawyer Boot & Shoe Co. No. 148,253; Nov. 8.
- Moisteners, mucilage-applying devices, inkwells, &c. Rivet-O Manufacturing Company. No. 144,899; July 19; v. 288; p. 621.
- Molasses. G. Roseman. No. 140,199; Mar. 8; v. 284; p. 367.
- Molasses. Sugar Products Co. No. 148,275; Nov. 8.
- Molasses and malt. G. W. Harrington. No. 145,685; Aug. 16; v. 289; p. 594.
- Molasses and syrups. American Molasses Company of New York. Nos. 142,417-20; May 17; v. 286; p. 623.
- Molasses, Live-stock-feeders'. Penick & Ford Ltd. No. 138,849; Jan. 11; v. 282; p. 377.
- Molding material. National Mineral Products Co. No. 144,035; June 21; v. 287; p. 582.
- Molds or matrices, Metallic sheets for making. Conley Foil Company. No. 139,778; Feb. 22; v. 283; p. 752.
- Monograph or memorial. Hoyt's Service Inc. No. 138,974; Jan. 18; v. 282; p. 554.
- Mops. Gem Hammock & Fly Net Company. No. 143,013; May 24; v. 286; p. 846.
- Mops. Massasoit Manufacturing Company. No. 142,614; May 17; v. 286; p. 629.
- Mops, oil-mops, and cotton floor-brushes. Tate Manufacturing Company. No. 143,192; May 24; v. 286; p. 852.
- Mops or dusters. Harzee Manufacturing Company. No. 144,225; June 28; v. 287; p. 775.
- Mordants and dyes. Grasser Chemical Company. No. 139,140; Jan. 25; v. 282; p. 734.
- Mordants for textiles. New York Quebracho Extract Company. No. 147,380; Oct. 11.
- Mortar, lime, &c. Leukolith G. m. b. H. No. 143,387; May 31; v. 286; p. 1050.
- Mosquito-repelling toilet powder. T. K. Boesch. No. 138,779; Jan. 11; v. 282; p. 375.
- Moss, Louisiana. Henry Wilhelm Company. No. 149,626; Dec. 13.
- Moth-extermimator and insecticide. Atlantic Dyestuff Company. No. 140,072; Mar. 8; v. 284; p. 363.
- Moth-preventive compound. L. R. Boyd. No. 139,969; Mar. 1; v. 284; p. 173.



## Alphabetical list of trade-marks—Continued.

- Motor-cars and accessories. A. V. Roe & Co. No. 142,732; May 17; v. 286; p. 633.
- Motor cars and trucks. Midland Motor Car and Truck Company. No. 145,157; July 26; v. 288; p. 815.
- Motor-cars, motorcycles, cycle-cars, and parts thereof. A. Harper Sons and Bean. No. 143,035; May 24; v. 286; p. 847.
- Motor-cars, vessels, boats, and rudders. Societe des Moteurs Gnome et Rhone. No. 143,175; May 24; v. 286; p. 851.
- Motor-hoists, Pneumatic. Ingersoll-Rand Company. No. 149,958; Dec. 27.
- Motor-vehicles. Associated Equipment Company. No. 143,277; May 31; v. 286; p. 1047.
- Motor-vehicles. C. S. Henshaw. No. 144,156; June 21; v. 287; p. 591.
- Motor-vehicles—viz., airships, bicycles, &c. Scintilla. No. 144,922; July 19; v. 288; p. 622.
- Motors actuated by tide-power. Universal Tide Power Company. No. 144,150; June 21; v. 287; p. 590.
- Motors actuated by the power of the tide. Universal Tide Power Company. No. 147,424; Oct. 11.
- Motors and certain accessories therefor, Spring-driven. Sears, Roebuck and Company. No. 147,814; Nov. 1.
- Motors and electric generators, &c., Stands for testing starting-. Electric Machine Company. No. 148,647; Nov. 22.
- Motors and generators and starters. Crocker-Wheeler Company. Nos. 141,526-7; Apr. 26; v. 285; p. 779.
- Motors, Gasolene-. Hares' Motors Inc. No. 147,490; Oct. 18.
- Motors, generators, converters, &c., Electric. The Fidelity Electric Company. No. 141,936; May 3; v. 286; p. 184.
- Motors, Truck, &c., internal-combustion. Wisconsin Motor Manufacturing Co. No. 146,526; Sept. 6; v. 290; p. 218.
- Motorcycle accessories. Pentress-Newton Mfg. Co. No. 144,570; July 12; v. 288; p. 423.
- Motorcycles. Cleveland Motorcycle Manfg. Co. No. 140,032; Mar. 1; v. 284; p. 176.
- Motorcycles. Société D'Emboutissage, et de Constructions Mécaniques. No. 144,478; July 5; v. 288; p. 195.
- Motorcycles and bicycles. Edwards & Crist Co. No. 145,656; Aug. 16; v. 289; p. 593.
- Motorcycles and cycles, Cars for. Mills-Fulford. No. 142,054; May 3; v. 286; p. 188.
- Mouth-gags. G. F. Richter. No. 149,797; Dec. 20.
- Mouth-wash. F. R. Abrams. No. 141,066; Apr. 12; v. 285; p. 379.
- Mouth-wash. F. G. Bland. No. 141,872; May 3; v. 286; p. 182.
- Mouth-wash. A. R. Gafney. No. 139,805; Feb. 22; v. 283; p. 752.
- Mouth-wash. S. H. Goodfriend. No. 148,841; Nov. 29.
- Mouth-wash. W. W. Levis. No. 142,009; May 3; v. 286; p. 187.
- Mouth-wash. W. A. Smith. No. 146,368; Sept. 6; v. 290; p. 203.
- Mouth-wash and antiseptic, Liquid. H. L. Asselin. No. 148,983; Dec. 6.
- Mouth-wash and gargle. Stearns-Hollinshead Co. No. 139,897; Feb. 22; v. 283; p. 755.
- Mouth-wash and lotion. G. W. Emerson. No. 140,116; Mar. 8; v. 284; p. 364.
- Mouth-wash and scalp remedy, Antiseptic. Mulhens & Kropff. No. 143,100; May 24; v. 286; p. 849.
- Mouth-wash, Antiseptic. Alko Products Company. No. 142,914; May 24; v. 286; p. 843.
- Mouth-wash, Antiseptic. Knight and Co. No. 146,275; Sept. 6; v. 290; p. 200.
- Mouth-wash, Antiseptic. O. F. Louis. No. 148,147; Nov. 8.
- Mouth-wash for use in curing the tobacco habit. L. D. Van Cleave. No. 145,847; Aug. 16; v. 289; p. 599.
- Mouth-wash, tooth powder and paste. W. E. Filteau. No. 146,224; Sept. 6; v. 290; p. 199.
- Mouth-washes. I. M. Cohn. No. 142,967; May 24; v. 286; p. 844.
- Mouth-washes. Pro-Cide Company. No. 143,718; June 7; v. 287; p. 186.
- Mouth-washes. Salzinco Company. No. 143,157; May 24; v. 286; p. 850.
- Mouth-washes, Antiseptic. A. G. H. Duden. No. 145,949; Aug. 23; v. 289; p. 787.
- Mowers, Lawn-. Dille & McGuire Mfg. Co. Nos. 145,258-63; July 26; v. 288; p. 821-2.
- Mowers, Lawn-. Dille & McGuire Mfg. Co. Nos. 147,985-91; Nov. 8.
- Mowers, Lawn-. Jacobsen Manufacturing Company. No. 149,681; Dec. 20.
- Mowers, Lawn-. John Braun & Sons. No. 140,334; Mar. 15; v. 284; p. 579.
- Mowers, Lawn-. Pontiac Lawn Mower Co. No. 143,261; May 24; v. 286; p. 858.
- Mowers, lawn-mowers, and repair parts therefor. Clipper Lawn Mower Company. No. 149,569; Dec. 13.
- Moving-picture and photo-play films. Fox Film Corporation. No. 143,001; May 24; v. 286; p. 846.
- Mucilage. Buxton & Skinner Printing and Stationery Company. No. 147,560; Oct. 25.
- Mucilage, adhesive tapes, liquid glue, and court-plaster. Puritan Drug Mfg. Co. No. 147,812; Nov. 1.
- Mucilage, paste, and sealing-wax. Pomeroy Ink Manufacturing Co. No. 149,484; Dec. 13.
- Mucilage, Stick-. Stickalene Company. No. 138,870; Jan. 11; v. 282; p. 378.
- Music and music-books, Sheet-. J. Fischer & Bro. No. 149,572; Dec. 13.
- Music-roll holders, Folding. G. F. Usbeck. No. 142,811; May 17; v. 286; p. 635.
- Music-rolls. Standard Music Roll Co. No. 144,635; July 12; v. 288; p. 425.
- Music-rolls for piano-players, Perforated. H. Swerdlow. No. 139,642; Feb. 8; v. 283; p. 354.
- Music-rolls for self-playing instruments, Perforated. Vocalstyle Music Company. No. 140,462; Mar. 15; v. 284; p. 583.
- Music-rolls, Perforated. Filmusic Company. No. 146,735; Sept. 20; v. 290; p. 633.
- Music, Sheet-. Boston Music Co. No. 143,291; May 31; v. 286; p. 1047.
- Musical-instruction outfit. F. E. Hughey. No. 145,374; Aug. 2; v. 289; p. 179.
- Musical-instrument reeds. M. E. Vandoren. No. 142,815; May 17; v. 286; p. 635.
- Musical instruments. American Piano Company. Nos. 148,980-1; Dec. 6.
- Musical instruments. Higley and Mortensen. No. 146,250; Sept. 6; v. 290; p. 200.
- Musical instruments. Ideal Furniture Company. No. 139,328; Feb. 1; v. 283; p. 170.
- Musical instruments. F. J. Kornbrust. No. 143,855; June 14; v. 287; p. 400.
- Musical instruments. Reed & Thompson. No. 142,724; May 17; v. 286; p. 632.
- Musical instruments. E. A. Stathopoulos. No. 140,685; Mar. 22; v. 284; p. 747.
- Musical instruments and parts thereof, Certain. Albert Houdlett & Sons. No. 149,407; Dec. 13.
- Musical instruments and strings and bows therefor, Stringed. H. T. Heberlein, Jr. No. 146,480; Sept. 6; v. 290; p. 212.
- Musical instruments, Certain. A. Burdwise. Nos. 147,944-5; Nov. 8.
- Musical instruments, Certain. L. Rosenblatt. No. 142,733; May 17; v. 286; p. 633.
- Musical stringed instruments. Sangtoy Company. No. 146,860; Sept. 20; v. 290; p. 637.
- Muslin and cotton piece goods. W. H. Childs & Son. No. 139,507; Feb. 8; v. 283; p. 350.
- Muslin in the piece. Marshall Field & Company. Nos. 144,848-55; July 19; v. 288; p. 620.
- Muslin in the piece. Marshall Field & Company. No. 145,413; Aug. 2; v. 289; p. 180.
- Muslin in the piece and pillow-cases. Marshall Field & Company. No. 148,689; Nov. 22.
- Muslin piece goods. Strauss Brothers. No. 140,019; Mar. 1; v. 284; p. 174.
- Muslin, sheets, pillow-cases, Bleached. Cooper, Coate & Casey Dry Goods Co. Nos. 149,019-20; Dec. 6.
- Muslin, sheets, pillow-cases, Bleached. Cooper, Coate & Casey Dry Goods Co. No. 149,654; Dec. 20.
- Muslins in the piece. Marshall Field & Company. No. 146,222; Sept. 6; v. 290; p. 199.
- Muslins in the piece. Marshall Field & Company. No. 146,813; Sept. 20; v. 290; p. 635.
- Mustard. Bingo Mustard Co. No. 138,580; Jan. 4; v. 282; p. 185.
- Nail-brushes. Samstag & Hilder Bros. No. 146,859; Sept. 20; v. 290; p. 637.
- Nail-clippers. H. C. Cook Co. No. 149,571; Dec. 13.
- Nail-polish. T. F. Bahr. No. 140,075; Mar. 8; v. 284; p. 363.
- Nail-polish. F. C. Irish. No. 145,700; Aug. 16; v. 289; p. 594.
- Nail-polish. I. R. Parsons. No. 146,834; Sept. 20; v. 290; p. 636.
- Nail-polish. H. T. Phillips. No. 139,869; Feb. 22; v. 283; p. 754.
- Nail polish, Finger-. The Medco Company. No. 138,837; Jan. 11; v. 282; p. 377.
- Nail polish, talcum powder, &c., Finger-. Roelly Chemical Co. No. 143,444; May 31; v. 286; p. 1052.
- Nails. Eastern Nail Company. No. 147,481; Oct. 18.
- Nails. W. H. Maze Company. No. 147,235; Oct. 4.
- Nails. Morley Button Manufacturing Company. No. 139,088; Jan. 18; v. 282; p. 560.
- Nails and tacks. United Shoe Machinery Company. No. 139,102; Jan. 18; v. 282; p. 561.
- Nails and tacks. United Shoe Machinery Corporation. No. 140,304; Mar. 8; v. 284; p. 374.
- Nails, barb-wire, &c., Wire and coated. Pittsburgh Steel Company. No. 140,293; Mar. 8; v. 284; p. 373.
- Nails, bolts, screws, metallic handles for furniture, &c. Societe Des Moteurs Gnome et Rhone. No. 144,476; July 5; v. 288; p. 195.
- Nails, Channel-. G. G. Roberts Corporation. No. 149,611; Dec. 13.
- Nails, Clenching-. Geo. Baker & Sons. No. 149,634; Dec. 20.
- Napkins, table-cloths, and towels, Damask. William Walker & Co. No. 140,007; Mar. 29; v. 284; p. 950.
- Napped piece goods known as duvetyne. Hecht & Mendes. No. 149,105; Dec. 6.
- Navigation, Instruments for use in. Societe des Moteurs Gnome et Rhone. No. 141,234; Apr. 12; v. 285; p. 384.
- Neckbands. S. Diamond. No. 142,502; May 17; v. 286; p. 626.



## Alphabetical list of trade-marks—Continued.

- Necklaces. H. Wolff & Co. No. 144,979; July 19; v. 288; p. 624.
- Necktie-holders, suspenders, &c. J. Pabst. No. 138,689; Jan. 4; v. 282; p. 189.
- Neckties. Grip Bow Tie Co. No. 146,473; Sept. 6; v. 290; p. 211.
- Neckties. Guest Neckwear Company. No. 143,629; June 7; v. 287; p. 184.
- Neckties. E. G. Hagedorn. No. 149,091; Dec. 6.
- Neckties. Pin Tei Manufacturing Corporation. No. 142,318; May 10; v. 286; p. 405.
- Neckties and cravats. H. J. Silberman & Co. No. 143,747; June 7; v. 287; p. 187.
- Neckties and cravats, Men's. Sunshine Neckwear Company. No. 145,829; Aug. 16; v. 289; p. 598.
- Neckties and mufflers. T. E. Greaney. No. 146,471; Sept. 6; v. 290; p. 211.
- Neckties and scarfs. Baer Bros. Co. No. 138,752; Jan. 4; v. 282; p. 191.
- Neckties, Combined packing and display receptacles for. N. Schoenfeld. No. 148,255; Nov. 8.
- Neckties or bows. A. B. Chauncey. No. 147,565; Oct. 25.
- Needles and machine knitting-needles, Sewing-machine. C. B. Barker & Co. No. 146,171; Sept. 6; v. 290; p. 197.
- Needles, bodkins, &c. William Hall & Co. No. 148,427; Nov. 15.
- Needles for hand-embroidery, &c. American Art Needle Company. No. 143,275; May 31; v. 286; p. 1047.
- Needles for hand-sewing and toilet-pins. Guillaume Limited. No. 138,631; Jan. 4; v. 282; p. 187.
- Needles for hand use, Knitting. Marshall Field & Company. No. 144,199; June 28; v. 287; p. 774.
- Needles for knitting-machines, Latch-. Geo. H. Adams Co. No. 147,895; Nov. 8.
- Needles, hair and hat pins, buttons, &c. Waldes & Co. Nos. 138,732-3; Jan. 4; v. 282; p. 190.
- Needles, Hand-. A. L. Clark & Co. No. 141,899; May 3; v. 286; p. 183.
- Needles, Package-. James Smith & Son, Redditch. No. 142,134; May 3; v. 286; p. 190.
- Needles, Sailmakers'. James Smith & Son, Redditch. No. 142,135; May 3; v. 286; p. 191.
- Needles, thimbles, coat-hangers, clasps, Knitting and crochet. Waldes & Co. No. 139,660; Feb. 8; v. 283; p. 354.
- Needles, toilet and safety pins, shoe-buckles, &c., Hand sewing-. Caravel Company. No. 145,057; July 26; v. 288; p. 812.
- Needlework, Certain instruction books for art-. Bernhard Ulmann Co. No. 147,422; Oct. 11.
- Needlework products, Art-. Bernhard Ulmann Co. No. 145,195; July 26; v. 288; p. 816.
- Neglignees, dressing-sacks, pajamas, nightgowns, &c. Gerber Undergarment Company. No. 143,015; May 24; v. 286; p. 846.
- Netting in the piece, Mosquito-. Marshall Field & Company. No. 144,845; July 19; v. 288; p. 620.
- News article and fashion-news articles. McClure Newspaper Syndicate. No. 140,478; Mar. 15; v. 284; p. 584.
- Newspaper-column. C. H. Carson. No. 140,093; Mar. 8; v. 284; p. 363.
- Newspaper columns, For use on. E. A. Moss. No. 148,484; Nov. 15.
- Newspaper, Daily. New England Newspaper Publishing Company. No. 148,491; Nov. 15.
- Newspaper-section. David Lawrence, Inc. No. 143,992; June 21; v. 287; p. 580.
- Newspaper-section. The Dispatch Publishing Company. Nos. 149,661-2; Dec. 20.
- Newspaper-section issued weekly. Lord & Taylor. No. 145,731; Aug. 16; v. 289; p. 595.
- Newspaper-sections. W. Donahey. No. 145,651; Aug. 16; v. 289; p. 593.
- Newspaper, Weekly. J. P. McAdams. No. 147,790; Nov. 1.
- Newspapers. Corn Belt Farm Dailies. No. 147,288; Oct. 11.
- Newspapers. Detroit Free Press. No. 140,703; Mar. 22; v. 284; p. 750.
- Newspapers. News Syndicate Co. No. 143,119; May 24; v. 286; p. 849.
- Newspapers. News Syndicate Co. No. 149,711; Dec. 20.
- Newspapers, Old. F. B. Dallam. No. 149,656; Dec. 20.
- Nickel and nickel-alloy clad steel sheets. H. Boker & Co. No. 147,274; Oct. 11.
- Nickel-copper-alloy iron and steel. Nicu Steel Corporation. No. 139,587; Feb. 8; v. 283; p. 352.
- Nickel sheets, tubes, rods, &c. Nickel-Alloys Company. No. 144,254; June 28; v. 287; p. 776.
- Night-shirts and pajamas. Lewis, Gerstman & Co. No. 142,544; May 17; v. 286; p. 627.
- Nightgowns, envelop-chemise, petticoats, &c. Burtex Company. No. 141,330; Apr. 19; v. 285; p. 565.
- Nightgowns, sleeping-garments, pajamas, Children's. August Knitting Corporation. No. 143,543; June 7; v. 287; p. 181.
- Nipple-cerate. National Pharmacy Co. No. 141,416; Apr. 19; v. 285; p. 568.
- Nipples, Nursing-. E. & S. Nipple Company. No. 149,599; Dec. 13.
- Nom de plume* used on newspaper articles. David Lawrence Incorporated. Nos. 147,347-8; Oct. 11.
- Nom de plume* used on newspaper articles. Star Company. No. 147,412; Oct. 11.
- Non-alcoholic malt beverages. V-Loewer's Gambrinus Brewery Co. Nos. 142,673-4; May 17; v. 286; p. 631.
- Noodles. A. Benz, Jr. No. 148,569; Nov. 15.
- Nose-rings for animals. Stewart Hog Ring Company. No. 144,479; July 5; v. 288; p. 195.
- Notions. China Palace Company. No. 141,895; May 3; v. 286; p. 183.
- Notions. Western Dry Goods Co. No. 143,511; May 31; v. 286; p. 1054.
- Notions and smallwares. Edwin Horrex, Inc. No. 144,231; June 28; v. 287; p. 775.
- Notions, Certain. Waldes & Co. No. 147,427; Oct. 11.
- Notions, Certain named. F. A. Patrick & Co. No. 145,253; July 26; v. 288; p. 824.
- Notions, such as garment-fasteners, needles, pins, Certain. Waldes & Co. No. 148,304; Nov. 8.
- Novelties in the form of curios, old prints, &c. Look-See Shop. No. 149,434; Dec. 13.
- Nozzles and nozzle-casings. Wayne Oil Tank & Pump Company. No. 139,050; Jan. 18; v. 282; p. 556.
- Nozzles, Sprinkler-. J. D. Ross. No. 147,245; Oct. 4.
- Nut forming, burring, and tapping, &c., machines. Howard Iron Works. No. 140,836; Mar. 29; v. 284; p. 944.
- Nuts. Famo Nut Co. No. 140,121; Mar. 8; v. 284; p. 364.
- Nuts. Habicht and Company. No. 141,569; Apr. 26; v. 285; p. 780.
- Nuts and candy. Thrift Stores, Inc. No. 146,010; Aug. 23; v. 289; p. 789.
- Nuts and dried fruits. Habicht and Company. No. 141,370; Apr. 19; v. 285; p. 567.
- Nuts, Pinon-. F. S. Spitz. No. 138,867; Jan. 11; v. 282; p. 378.
- Nuts, Salted. P. S. Kaloostian. No. 139,557; Feb. 8; v. 283; p. 357.
- Nuts, Salted pistachio-. S. F. Zaloom & Co. No. 146,920; Sept. 20; v. 290; p. 639.
- Nutcrackers. Rehn & Tousley. No. 148,940; Nov. 29.
- Oatmeal. Purity Oats Company Branch of American Hominy Company. No. 143,142; May 24; v. 286; p. 850.
- Oats, cream-meal, cornmeal, hominy-grits, pearl-hominy. Atlas Cereal Company. No. 148,986; Dec. 6.
- Oats, wheat hearts and flakes, &c., Crushed. Quaker Oats Company. No. 143,143; May 24; v. 286; p. 850.
- Oil and black olives, Olive-. Triopl Importing Co. No. 149,523; Dec. 13.
- Oil and canned olives, Olive-. A. G. del Castillo. No. 146,706; Sept. 20; v. 290; p. 632.
- Oil and fat residues used as fertilizers. Naamlooze Vennootschap Oliefabrieken Insulinde. No. 144,869; July 19; v. 288; p. 621.
- Oil and furniture-polish, Floor-. F. P. Symonds. No. 140,989; Mar. 29; v. 284; p. 949.
- Oil and grease cups. Bowen Products Corporation. No. 145,325; Aug. 2; v. 289; p. 177.
- Oils and greases, Lubricating. Star Oil Company. No. 149,803; Dec. 20.
- Oil and mixture of olive with other vegetable oils, Olive-. Rockhill & Victor. No. 148,240; Nov. 8.
- Oil, Antiseptic, germicidal, and anodyne. F. W. Clements. No. 147,083; Oct. 4.
- Oil burners, Crude-. Victory Oil Burner Company. No. 148,294; Nov. 8.
- Oil, Butter-. Capitol Refining Co. No. 144,307; June 28; v. 287; p. 779.
- Oil-cans. The Automotive Exchange of America Company. No. 138,937; Jan. 18; v. 282; p. 553.
- Oil, Castor-. Okay Extract Co. No. 139,859; Feb. 22; v. 283; p. 754.
- Oil, Castor-. Spencer Kellogg & Sons. No. 147,004; Sept. 27; v. 290; p. 805.
- Oil, Catarrhal. A. L. Share. No. 143,466; May 31; v. 286; p. 1053.
- Oil, Choice refined corn-. Chas. Hollinshed Co. No. 139,325; Feb. 1; v. 283; p. 169.
- Oil-cloth, linoleum, mats, and rugs. Texoleum Company of New York. No. 147,887; Nov. 1.
- Oil, Coconut-. Procter and Gamble Company. No. 146,337; Sept. 6; v. 290; p. 202.
- Oil, Cod-liver. J. Altieri. No. 140,312; Mar. 15; v. 284; p. 579.
- Oil, Cod-liver. Lanman & Kemp. No. 143,383; May 31; v. 286; p. 1050.
- Oil compound used in the baking of food products. Bakers Products Company. No. 148,786; Nov. 29.
- Oil, Cotton-seed. International Vegetable Oil Company. No. 148,090; Nov. 8.
- Oil, Cotton-seed. Procter and Gamble Company. No. 139,693; Feb. 8; v. 283; p. 358.
- Oil, Cotton-seed. Procter and Gamble Company. No. 139,951; Feb. 22; v. 283; p. 760.
- Oil, Cotton-seed cooking-. Capitol Refining Co. No. 144,308; June 28; v. 287; p. 779.
- Oil, cup-greases, &c., Lubricating motor-. J. J. South. No. 148,929; Nov. 29.
- Oil-cups. Advanced Products Corporation. No. 142,227; May 10; v. 286; p. 403.
- Oil-cups and oil-feeding devices. Justrite Manufacturing Company. No. 141,763; Apr. 26; v. 285; p. 789.
- Oil-cups, Automatic. G. S. Lane. No. 143,663; June 7; v. 287; p. 185.



*Alphabetical list of trade-marks—Continued.*

- Oil dressing and paste for leather and ropes. G. A. Van Dyke. No. 142,814; May 17; v. 286; p. 635.
- Oil-dressing for belting. Hoofol Manufacturing Company. No. 143,371; May 31; v. 286; p. 1050.
- Oil, Edible. The Southern Cotton Oil Company. Nos. 138,708-9; Jan. 4; v. 282; p. 189.
- Oil, Edible vegetable. American Cotton Oil Company. No. 141,834; May 3; v. 286; p. 181.
- Oil, Edible vegetable. United Vegetable Oil Refinery. No. 141,705; Apr. 26; v. 285; p. 784.
- Oil, emulsified, Castor-. William S. Merrell Company. No. 142,039; May 3; v. 286; p. 188.
- Oil emulsion. Moore Oil Refining Company. No. 143,688; June 7; v. 287; p. 186.
- Oil-engines. Evinrude Motor Company. No. 144,388; July 5; v. 288; p. 192.
- Oil, Eucalyptus-. J. Bosisto & Co. Proprietary Limited. No. 145,613; Aug. 16; v. 289; p. 591.
- Oil-filters. Wm. W. Nugent & Co. No. 142,646; May 17; v. 286; p. 630.
- Oil, Flotation-. General Naval Stores Co. No. 141,751; Apr. 26; v. 285; p. 787.
- Oil, Flushing-. Standard Oil Company. No. 149,736; Dec. 20.
- Oil, Flushing-. Standard Oil Company. No. 150,121; Dec. 27.
- Oil for treatment of road-surfaces. Pure Oil Company. No. 146,338; Sept. 6; v. 290; p. 202.
- Oil, Fulling and scouring. U. S. Oil & Supply Co. No. 147,016; Sept. 27; v. 290; p. 805.
- Oil, Haarlem. Genuine Haarlem Oil Mfg. Co. No. 141,054; Apr. 5; v. 285; p. 187.
- Oil, Hard-wood. General Naval Stores Co. No. 141,750; Apr. 26; v. 285; p. 787.
- Oil, Harness-. Standard Oil Company of New York. No. 139,636; Feb. 8; v. 283; p. 354.
- Oil, Healing-. T. F. Woodruff. No. 141,275; Apr. 12; v. 285; p. 385.
- Oil, Kerosene-. The Texas Company. No. 141,250; Apr. 12; v. 285; p. 384.
- Oil, Kerosene-. The Texas Company. No. 144,950; July 19; v. 288; p. 623.
- Oil, Liquid fuel-. Standard Oil Company. No. 145,822; Aug. 16; v. 289; p. 598.
- Oil, Lubricating-. Automotive Lubricant Company. No. 148,989; Dec. 6.
- Oil, Lubricating-. Chicago Pneumatic Tool Company. No. 141,094; Apr. 12; v. 285; p. 380.
- Oil, Lubricating-. Dodge City Oil & Refining Co. No. 139,519; Feb. 8; v. 283; p. 350.
- Oil, Lubricating-. Foco Oil Company. No. 140,123; Mar. 8; v. 284; p. 364.
- Oil, Lubricating-. Isko Company. No. 140,406; Mar. 15; v. 284; p. 582.
- Oil, Lubricating-. E. K. Lincoln. No. 148,891; Nov. 29.
- Oil, Lubricating-. C. L. Maguire Petroleum Co. No. 147,497; Oct. 18.
- Oil, Lubricating-. Moon-Shine Manufacturing Company. No. 149,173; Dec. 6.
- Oil, Lubricating-. Standard Oil Company of New York. No. 139,635; Feb. 8; v. 283; p. 354.
- Oil, Lubricating-. Thomson Auto Specialties Company. No. 140,995; Mar. 29; v. 284; p. 949.
- Oil, Machine-. Amboy Products Co. No. 147,068; Oct. 4.
- Oil, Machine-. Grand Union Tea Co. No. 143,033; May 24; v. 286; p. 846.
- Oil, Medicinal. H. Cabitt. No. 141,502; Apr. 26; v. 285; p. 778.
- Oil meters and gages, air-gages. Anthony Company. No. 149,564; Dec. 13.
- Oil, Mineral. W. N. Edenfield. No. 146,216; Sept. 6; v. 290; p. 199.
- Oil, Mineral. Standard Oil Company. No. 150,122; Dec. 27.
- Oil, Motor-. The Albany Belting and Supply Company. No. 140,544; Mar. 22; v. 284; p. 745.
- Oil, Motor-. Rusk Oil Co. No. 150,089; Dec. 27.
- Oil, Motor fuel-. Benzolene Motor Fuel Co. No. 144,348; July 5; v. 288; p. 191.
- Oil, Motor-lubricating. Rusk Oil Co. of Philadelphia, Pa. No. 150,087; Dec. 27.
- Oil of flowers, leaves, &c., Natural. Ungerer & Company. No. 146,153; Aug. 30; v. 289; p. 1016.
- Oil, Olive-. Alex. D. Shaw & Co. No. 141,224; Apr. 12; v. 285; p. 384.
- Oil, Olive-. Blumauer-Frank Drug Company. No. 141,493; Apr. 26; v. 285; p. 777.
- Oil, Olive-. Courumalis & Co. No. 139,780; Feb. 22; v. 283; p. 752.
- Oil, Olive-. J. V. Diaz. No. 139,150; Jan. 25; v. 282; p. 734.
- Oil, Olive-. Grecian Importing & Trading Co. No. 141,565; Apr. 26; v. 285; p. 780.
- Oil, Olive-. Italian Greek Impt. Co. No. 148,094; Nov. 8.
- Oil, Olive. A. Magnano Co. No. 144,328; June 28; v. 287; p. 781.
- Oil, Olive-. Marti y Gutiérrez. No. 146,755; Sept. 20; v. 290; p. 634.
- Oil, Olive-. P. Monteverde & Co. No. 140,496; Mar. 15; v. 284; p. 584.
- Oil, Olive-. Nunzio Stallone Bros. No. 142,628; May 17; v. 286; p. 629.
- Oil, Olive-. Pallarés Harmanos. No. 144,795; July 19; v. 288; p. 618.
- Oil, Olive-. A. Y. Puebla. No. 148,768; Nov. 22.
- Oil, Olive-. Societe Commerciale Peninsulaire Gaillard & Adema. No. 148,266; Nov. 8.
- Oil, Olive-. Southern Olive Oil Co. No. 139,632; Feb. 8; v. 283; p. 354.
- Oil, Olive-. Geo. Wolff & Co. No. 148,559; Nov. 15.
- Oil, Paint-. Simon & Elting. No. 141,227; Apr. 12; v. 285; p. 384.
- Oil, Perfume-. George V. Gross & Company. No. 147,108; Oct. 4.
- Oil, Petroleum-. Standard Oil Company. No. 149,248; Dec. 6.
- Oil, Pine-. General Naval Stores Co. No. 141,747; Apr. 26; v. 285; p. 787.
- Oil, Pine-tar. General Naval Stores Co. No. 141,749; Apr. 26; v. 285; p. 787.
- Oil, Polishing-. The Texas Company. No. 149,521; Dec. 13.
- Oil prepared and colored for use as a wood-stain, Pine-. Valdosta Retort Co. No. 150,149; Dec. 27.
- Oil pressed from corn, Salad-. A. Gastun & Company. No. 145,366; Aug. 2; v. 289; p. 179.
- Oil, Prime summer yellow cotton-seed. Chas. Hollinshed Company. No. 138,972; Jan. 18; v. 282; p. 554.
- Oil, Refined coconut. Chas. Hollinshed Co. No. 143,369; May 31; v. 286; p. 1050.
- Oil, Salad-. Italy Commercial Co. No. 146,263; Sept. 6; v. 290; p. 200.
- Oil, Soap-. Metal Lubricant Company. No. 140,170; Mar. 8; v. 284; p. 366.
- Oil, Soluble cuttings. American Refining Company. No. 141,842; May 3; v. 286; p. 181.
- Oil, Soy-bean. Chas. Hollinshed Co. No. 139,323; Feb. 1; v. 283; p. 169.
- Oil, Steam-distilled pine-. General Naval Stores Co. No. 141,748; Apr. 26; v. 285; p. 787.
- Oil substitute, Linseed-. Atlantic Refining Company. No. 146,167; Sept. 6; v. 290; p. 197.
- Oil used in salads and cooking. Penick & Ford. No. 140,716; Mar. 22; v. 284; p. 751.
- Oil used in the textile and dyeing industries. Kali Manufacturing Co. No. 139,824; Feb. 22; v. 283; p. 753.
- Oil used in treatment of woolen fabrics. American Oil Company. No. 144,161; June 28; v. 287; p. 773.
- Oil used to clean wool and worsteds. Swan & Finch Company. No. 140,300; Mar. 8; v. 284; p. 374.
- Oil-vaporizers used in connection with oil-burning stoves and furnaces. L. B. Walters. No. 141,008; Mar. 29; v. 284; p. 950.
- Oil-well machinery, &c. Oil Well Supply Company. No. 144,139; June 21; v. 287; p. 589.
- Oil, White mineral. Standard Oil Company. No. 149,249; Dec. 6.
- Oil, Wine of cod-liver. International Drug Company. No. 144,660; July 12; v. 288; p. 427.
- Oils. The Merrill Process Co. No. 139,346; Feb. 1; v. 283; p. 170.
- Oils. H. M. Wells. No. 139,228; Jan. 25; v. 282; p. 736.
- Oils and a combination of vegetable oils and animal fats, Vegetable. Rogers Company, The. No. 146,854; Sept. 20; v. 290; p. 637.
- Oils and aromatic compounds suitable for the production of perfumes, Liquid essential. Edward T. Beiser Co. No. 139,968; Mar. 1; v. 284; p. 173.
- Oils and essences suitable for production of perfumes, Natural and synthetic. Chemical Works Flora. No. 145,883; Aug. 16; v. 289; p. 601.
- Oils and extracts, Food-flavoring. Charles V. Sparhawk, Inc. No. 147,884; Nov. 1.
- Oils and flavoring extracts, Olive and flavoring. S. P. Hite Company. No. 146,482; Sept. 6; v. 290; p. 212.
- Oils and gasolene. Cleage & Company. No. 140,349; Mar. 15; v. 284; p. 580.
- Oils and gasolene, Illuminating. Wadhams Oil Company. No. 139,104; Jan. 18; v. 282; p. 561.
- Oils and gasolene, Lubricating-. Associated Oil Company. No. 146,166; Sept. 6; v. 290; p. 197.
- Oils and greases. American Refining Company. No. 142,230; May 10; v. 286; p. 403.
- Oils and greases. Crew Levick Company. No. 139,281; Feb. 1; v. 283; p. 168.
- Oils and greases. Penn Lubric Oil Company. No. 145,175; July 26; v. 288; p. 815.
- Oils and greases. Societe Anonyme A. André Fils. No. 143,174; May 24; v. 286; p. 851.
- Oils and greases. Western Petroleum Co. No. 145,202; July 26; v. 288; p. 816.
- Oils and greases, and axle-grease, Lubricating. Richardson Lubricating Company. No. 146,599; Sept. 13; v. 290; p. 422.
- Oils and greases and gasolene, Lubricating. Pennant Oil & Grease Co. No. 147,367; Oct. 11.
- Oils and greases, Certain. Atlantic Refining Company. No. 148,984; Dec. 6.
- Oils and greases, Certain. Phiny Brothers Company. No. 145,778; Aug. 16; v. 289; p. 596.
- Oils and greases, &c., Chemical. Automotive Specialty Manufacturing Co. No. 143,901; June 21; v. 287; p. 577.
- Oils and greases, gasolene, &c., Lubricating. Biery Oil Company. No. 138,945; Jan. 18; v. 282; p. 553.
- Oils and greases, Graphite. General Process Corporation. No. 139,075; Jan. 18; v. 282; p. 558.



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- Oils and greases, Lubricating. American Oil Corporation. No. 149,819; Dec. 27.
- Oils and greases, Lubricating. American Stationary Mfg. Co. No. 146,421; Sept. 6; v. 290; p. 206.
- Oils and greases, Lubricating. Anti-Friction Lubricant Co. No. 140,734; Mar. 29; v. 284; p. 941.
- Oils and greases, Lubricating. Baldwin Locomotive Works. No. 140,323; Mar. 15; v. 284; p. 579.
- Oils and greases, Lubricating. Cee & Vee Products Co. No. 147,479; Oct. 18.
- Oils and greases, Lubricating. Corning International Corporation. No. 148,806; Nov. 29.
- Oils and greases, Lubricating. Crew Levick Company. No. 140,354; Mar. 15; v. 284; p. 580.
- Oils and greases, Lubricating. Crew Levick Company. No. 143,309; May 31; v. 286; p. 1048.
- Oils and greases, Lubricating. Crew Levick Company. No. 144,520; July 5; v. 288; p. 198.
- Oils and greases, Lubricating. J. Dunn, Son & Co. No. 149,906; Dec. 27.
- Oils and greases, Lubricating. Fiske Brothers Refining Co. No. 141,548; Apr. 26; v. 285; p. 779.
- Oils and greases, Lubricating. Haggerty Refining Company. No. 139,142; Jan. 25; v. 282; p. 734.
- Oils and greases, Lubricating. Lubricants Company. No. 149,147; Dec. 6.
- Oils and greases, Lubricating. Naamlooze Vennootschap Olliefabriken, Insulinde. No. 143,104; May 24; v. 286; p. 849.
- Oils and greases, Lubricating. L. V. Nicholas Oil Company. No. 146,591; Sept. 13; v. 290; p. 422.
- Oils and greases, Lubricating. Peppers Gasoline Company. No. 139,864; Feb. 22; v. 283; p. 754.
- Oils and greases, Lubricating. Seaboard and Inland Oil Corporation. No. 146,605; Sept. 13; v. 290; p. 422.
- Oils and greases, Lubricating. Sears Equipment Company. No. 148,920; Nov. 29.
- Oils and greases, Lubricating. Sinclair Refining Company. Nos. 146,873-4; Sept. 20; v. 290; p. 637.
- Oils and greases, Lubricating. Willhelm Oil Company. No. 139,666; Feb. 8; v. 283; p. 355.
- Oils and greases, Petroleum. Producers and Refiners Corporation. Nos. 139,371-3; Feb. 1; v. 283; p. 171.
- Oils and greases, Petroleum, lubricating, illuminating, and fuel. Waverly Oil Works Company. No. 140,465; Mar. 15; v. 284; p. 583.
- Oils and waxes, &c. Katzenbach & Bullock Co. No. 148,456; Nov. 15.
- Oils, Aromatized castor-. M. F. Schlesinger. No. 141,805; Apr. 26; v. 285; p. 793.
- Oils, Artificial fruit-. Chemical Works Flora. No. 144,365; July 5; v. 288; p. 192.
- Oils, Cooking-. Capitol Refining Co. No. 143,569; June 7; v. 287; p. 182.
- Oils, Cooking-. Capitol Refining Co. No. 146,963; Sept. 27; v. 290; p. 803.
- Oils, Cooking and salad. Aunt Jemima Mills Company. No. 146,681; Sept. 20; v. 290; p. 631.
- Oils, Core-. E. F. Houghton & Co. No. 146,484; Sept. 6; v. 290; p. 213.
- Oils, Edible vegetable. Littauer Oil Company. No. 144,833; July 19; v. 288; p. 619.
- Oils, Floor-. Continental Mfg. Co. No. 147,435; Oct. 11.
- Oils for cooking purposes and solidified fats for food purposes, Cotton-seed. Globe Cotton Oil Mills. No. 145,368; Aug. 2; v. 289; p. 179.
- Oils for the production of perfumes. Edward T. Belser Co. No. 144,345; July 5; v. 288; p. 191.
- Oils for use in paints. W. B. Doxie. No. 142,987; May 24; v. 286; p. 845.
- Oils, Fuel-. Penn Oil Co. No. 149,198; Dec. 6.
- Oils, greases, and compounds, Lubricating. New York & New Jersey Lubricant Co. No. 141,791; Apr. 26; v. 285; p. 791.
- Oils, greases, and lubricants, Engine and motor. J. A. Hieronimus & Sons. No. 140,607; Mar. 22; v. 284; p. 745.
- Oils, greases, waxes, &c. Vacuum Oil Company. No. 145,845; Aug. 16; v. 289; p. 599.
- Oils, Lubricating, &c. American Oil Company. No. 149,631; Dec. 20.
- Oils, Lubricating-. Doublene Oil Co. No. 149,901; Dec. 27.
- Oils, Lubricating-. Ford Auto Supply Company. No. 148,407; Nov. 15.
- Oils, Lubricating-. E. F. Houghton & Co. No. 143,852; June 14; v. 287; p. 400.
- Oils, Lubricating-. E. F. Houghton & Co. Nos. 146,254-5; Sept. 6; v. 290; p. 200.
- Oils, Lubricating-. Marshall Oil Company of Iowa. No. 146,537; Sept. 6; v. 290; p. 219.
- Oils, Lubricating-. National Oil & Supply Company. No. 139,177; Jan. 25; v. 282; p. 735.
- Oils, Lubricating-. Nourse Oil Company. No. 138,843; Jan. 11; v. 282; p. 377.
- Oils, Lubricating-. G. A. Preiss. No. 138,850; Jan. 11; v. 282; p. 377.
- Oils, Lubricating-. Puente Oil Company. No. 141,643; Apr. 26; v. 285; p. 782.
- Oils, Lubricating-. Radium Oil Company. No. 148,518; Nov. 15.
- Oils, Lubricating-. Sinclair Refining Company. No. 146,362; Sept. 6; v. 290; p. 203.
- Oils, Lubricating-. Sinclair Refining Company. No. 146,872; Sept. 20; v. 290; p. 637.
- Oils, Lubricating-. Sun Company. No. 149,253; Dec. 6.
- Oils, Lubricating. Underhay Oil Co. No. 140,687; Mar. 22; v. 284; p. 747.
- Oils, Metal-cutting. E. F. Houghton & Co. No. 146,256; Sept. 6; v. 290; p. 200.
- Oils, Metal-cutting. E. F. Houghton & Co. Nos. 146,773-4; Sept. 20; v. 290; p. 634.
- Oils, Motor-. H. Earl Clack Company. No. 141,897; May 3; v. 286; p. 183.
- Oils, Motor-. Star Refining Company. No. 139,638; Feb. 8; v. 283; p. 354.
- Oils, Motor-lubricating. Jewett & Sowers Oil Co. No. 149,420; Dec. 13.
- Oils, Olive-. Cosma & Figli. No. 139,504; Feb. 8; v. 283; p. 350.
- Oils, Paint-. E. I. du Pont de Nemours & Company. No. 145,888; Aug. 16; v. 289; p. 602.
- Oils, Petroleum lubricating-. Stoll Oil Refining Co. No. 146,372; Sept. 6; v. 290; p. 203.
- Oils, Salad-. Capitol Refining Co. No. 146,964; Sept. 27; v. 290; p. 803.
- Oils suitable for tanning leather. National Oil Products Co. No. 139,015; Jan. 18; v. 282; p. 555.
- Oils suitable for the production of perfumes, Liquid flower-. Edward T. Belser Co. No. 139,967; Mar. 1; v. 284; p. 173.
- Oils, Vegetable and edible. American Nut and Seed Oil Corporation. No. 145,309; Aug. 2; v. 289; p. 177.
- Oils, Watch and clock. H. Paulson. No. 148,206; Nov. 8.
- Oils with or without resin, Dechlorinated. H. A. Gardner. No. 146,987; Sept. 27; v. 290; p. 804.
- Oiled cloth. Stephens & Wilkes. No. 144,064; June 21; v. 287; p. 582.
- Oilskin clothing. Great Grimsby Coal, Salt and Tanning Company. No. 138,630; Jan. 4; v. 282; p. 187.
- Ointment. Esko Products Company. No. 143,332; May 31; v. 286; p. 1048.
- Ointment. Hall & Ruckel. No. 147,110; Oct. 4.
- Ointment. Mother's Remedies Company. No. 147,015; Sept. 27; v. 290; p. 805.
- Ointment. Pixine Chemical Company. No. 140,936; Mar. 29; v. 284; p. 947.
- Ointment. C. S. Thatcher. No. 140,020; Mar. 1; v. 284; p. 174.
- Ointment. S. Wakamoto. No. 141,004; Mar. 29; v. 284; p. 949.
- Ointment, Antiseptic. Dr. O. W. Green & Dr. L. O. Green. No. 141,753; Apr. 26; v. 285; p. 788.
- Ointment, Antiseptic. Queens Pharmacal Co. No. 148,763; Nov. 22.
- Ointment, Antiseptic, deodorant, disinfectant, &c. Tersin Products Company. No. 140,445; Mar. 15; v. 284; p. 583.
- Ointment, Eczema-. Granville Moody Kinikin. No. 144,191; June 28; v. 287; p. 774.
- Ointment for affections and irritations of the skin. Iodol Associated Chemists. No. 139,997; Mar. 1; v. 284; p. 174.
- Ointment for certain ailments. A. J. Ward. No. 145,854; Aug. 16; v. 289; p. 599.
- Ointment for certain named purposes. E. C. Linney. No. 139,343; Feb. 1; v. 283; p. 170.
- Ointment for eczema. D. D. D. Company. No. 139,130; Jan. 25; v. 282; p. 733.
- Ointment for eczema, &c. G. A. Dykeman. No. 139,790; Feb. 22; v. 283; p. 752.
- Ointment for eczema, &c. Radiol Laboratories. No. 148,223; Nov. 8.
- Ointment for eczema, &c. The Sumellor Company. No. 138,716; Jan. 4; v. 282; p. 189.
- Ointment for eczema and all skin diseases. Raw-Zema Co. No. 143,722; June 7; v. 287; p. 186.
- Ointment for inflammatory congestion, &c. J. E. Jacobson. No. 141,579; Apr. 26; v. 285; p. 780.
- Ointment for inflammatory swellings of muscles or joints. Glandex Co. No. 147,437; Oct. 11.
- Ointment for skin affections. R. Flores. No. 140,384; Mar. 15; v. 284; p. 581.
- Ointment for skin eruptions. O. E. Palmer. No. 150,043; Dec. 27.
- Ointment for the feet. Sorvan Company. No. 142,141; May 3; v. 286; p. 191.
- Ointment for the skin. T. J. Kean. No. 140,155; Mar. 8; v. 284; p. 865.
- Ointment for the treatment of corns and callous. R. Moysen. No. 142,057; May 3; v. 286; p. 188.
- Ointment for the treatment of piles. E. M. Gebhardt. No. 146,231; Sept. 6; v. 290; p. 199.
- Ointment for the treatment of wounds, cuts, and sores. G. Kirkorian. No. 138,984; Jan. 18; v. 282; p. 554.
- Ointment for treatment of diseases. Men-Tho-Eze Corporation. No. 139,164; Jan. 25; v. 282; p. 734.
- Ointment for treatment of hemorrhoids. G. W. D. Robbins. No. 149,216; Dec. 6.
- Ointment for treatment of scalp. Mrs. A. N. Taylor. No. 148,946; Nov. 29.
- Ointment for treatment of the hair and scalp. B. F. A. Jones. No. 145,272; July 26; v. 288; p. 823.
- Ointment for treatment of tired and sore feet. A. Gross. No. 141,951; May 3; v. 286; p. 185.
- Ointment, Mustard. Smith-Faus Drug Co. No. 144,279; June 28; v. 287; p. 776.



*Alphabetical list of trade-marks—Continued.*

- Ointment or massage-cream. A. C. Clark. No. 144,368; July 5; v. 288; p. 192.
- Ointment or salve for swellings, bruises, muscular pains, &c. A. W. Niedzielski. No. 139,856; Feb. 22; v. 283; p. 754.
- Ointment, Prophylactic. Menley & James. No. 143,683; June 7; v. 284; p. 185.
- Ointment, Pile-. Eagle Ointment Company. No. 141,931; May 3; v. 286; p. 184.
- Ointment, Pile-. M. Gooslin. No. 147,214; Oct. 4.
- Ointment, Skin-. Vantex Chemical Company. No. 150,152; Dec. 27.
- Ointment, Venereal prophylactic. J. N. Cole. No. 144,184; June 28; v. 287; p. 773.
- Oleomargarin. The Baltimore Butterine Co. No. 138,569; Jan. 4; v. 282; p. 185.
- Oleomargarin. Baltimore Butterine Co. No. 141,079; Apr. 12; v. 285; p. 379.
- Oleomargarin. Baltimore Butterine Co. Nos. 141,486-7; Apr. 26; v. 285; p. 777.
- Oleomargarin. Baltimore Butterine Co. No. 142,857; May 17; v. 286; p. 637.
- Oleomargarin. Baltimore Butterine Co. No. 143,282; May 31; v. 286; p. 1047.
- Oleomargarin. Beatrice Creamery Company. No. 145,320; Aug. 2; v. 289; p. 177.
- Oleomargarin. Crown Margarin Company. No. 145,066; July 26; v. 288; p. 812.
- Oleomargarin. Crown Margarin Company. Nos. 145,549-50; Aug. 9; v. 289; p. 407.
- Oleomargarin. Ed. S. Vail Butterine Co. No. 147,446; Oct. 11.
- Oleomargarin. Fox River Butter Company, Inc. No. 143,206; May 24; v. 286; p. 852.
- Oleomargarin. Geo. P. Braun Company. No. 148,325; Nov. 8.
- Oleomargarin. Hammond Standish & Co. No. 143,750; June 7; v. 287; p. 187.
- Oleomargarin. Hammond Standish & Co. No. 146,475; Sept. 6; v. 290; p. 211.
- Oleomargarin. Harrow-Taylor Butter Co. No. 140,272; Mar. 8; v. 284; p. 371.
- Oleomargarin. Harrow-Taylor Butter Co. No. 146,245; Sept. 6; v. 290; p. 200.
- Oleomargarin. Jacob E. Decker & Sons. No. 147,978; Nov. 8.
- Oleomargarin. Nut Grove Butter Company. Nos. 146,315-16; Sept. 6; v. 290; p. 202.
- Oleomargarin. Palmine Company. No. 140,510; Mar. 15; v. 284; p. 585.
- Oleomargarin. Procter and Gamble Company. Nos. 142,716-17; May 17; v. 286; p. 632.
- Oleomargarin. Procter and Gamble Company. No. 147,808; Nov. 1.
- Oleomargarin. Pure Food Specialties Company. No. 150,067; Dec. 27.
- Oleomargarin. St. Louis Independent Packing Company. No. 141,811; Apr. 26; v. 285; p. 793.
- Oleomargarin. St. Louis Independent Packing Company. No. 144,538; July 5; v. 288; p. 200.
- Oleomargarin. M. Schiffman. No. 140,431; Mar. 15; v. 284; p. 582.
- Oleomargarin. Shedd Creamery Co. No. 141,675; Apr. 26; v. 285; p. 783.
- Oleomargarin. B. Stilling-Anderson, Inc. No. 145,404; Aug. 2; v. 289; p. 182.
- Oleomargarin. Swift and Company. No. 146,890; Sept. 20; v. 290; p. 638.
- Oleomargarin. Vermont Butterine Co. Inc. No. 146,392; Sept. 6; v. 290; p. 204.
- Oleomargarin. H. P. Wilkins Co. No. 145,490; Aug. 2; v. 289; p. 182.
- Oleomargarin and lard. Corkran, Hill and Company. No. 141,102; Apr. 12; v. 285; p. 380.
- Oleomargarin and nut margarin. Elgin Margarine Co. No. 147,873; Nov. 1.
- Olives. D. Gomez. No. 143,025; May 24; v. 286; p. 846.
- Olives, catsup, salad-dressing, chilli, mustard, &c. The W. Edwards Company. No. 144,753; July 19; v. 288; p. 617.
- Ophthalmic mountings and parts thereof. Stevens & Company. No. 148,271; Nov. 8.
- Optical and ophthalmic appliances. American Optical Company. No. 142,421; May 17; v. 286; p. 623.
- Optical products, engineering and other instruments of precision. Certain. Bausch & Lomb Optical Co. No. 148,789; Nov. 29.
- Orange extract and syrup. Kamm & Schellinger Co. No. 140,615; Mar. 22; v. 284; p. 745.
- Oranges, grapefruit, pineapples. Porto Rico Fruit Exchange. No. 145,783; Aug. 16; v. 289; p. 597.
- Organdie, English printed voiles, French novelties in the piece, &c. H. J. Bachrach. No. 143,902; June 21; v. 287; p. 577.
- Organdie piece goods. Trippe, Barker & Co. No. 139,042; Jan. 18; v. 282; p. 556.
- Oulja-boards. A. L. Lamoreaux. No. 142,664; May 17; v. 286; p. 631.
- Ovens, Bake-. G. S. Blodgett Company. Nos. 149,640-1; Dec. 20.
- Ovens, stores, ranges, &c. Bake-Rite Oven Mfg. Company. No. 145,038; July 26; v. 288; p. 811.
- Overalls. Brooklyn Overall Company. No. 145,619; Aug. 16; v. 289; p. 592.
- Overalls. E. R. Deputy Company. No. 141,108; Apr. 12; v. 285; p. 380.
- Overalls. Keet & Rountree Dry Goods Co. No. 144,818; July 19; v. 288; p. 619.
- Overalls. Kegan Grace Co. No. 143,058; May 24; v. 286; p. 847.
- Overalls. Louis Lewin Company. No. 140,622; Mar. 22; v. 284; p. 745.
- Overalls. Opelika Overall Co. No. 139,361; Feb. 1; v. 283; p. 171.
- Overalls. Sherman Overall Manufacturing Company. No. 141,225; Apr. 12; v. 285; p. 384.
- Overalls. United States Rubber Company. No. 140,688; Mar. 22; v. 284; p. 747.
- Overalls and jackets. Elmer E. Wagner. No. 147,889; Nov. 1.
- Overalls and jackets. Holman Manufacturing Company. No. 140,833; Mar. 29; v. 284; p. 944.
- Overalls and trousers. Altoona Overall Factory. No. 141,470; Apr. 26; v. 285; p. 777.
- Overalls and union work-suits. Stevenson Overall Company. No. 140,980; Mar. 29; v. 284; p. 949.
- Overalls and work-shirts. Standard Overall Company. No. 148,538; Nov. 15.
- Overalls, aprons, shirts, &c. L. W. Goldstone. No. 141,945; May 3; v. 286; p. 185.
- Overalls, auto-suits, and work-coats. Everwear Manufacturing Co. No. 144,317; June 28; v. 287; p. 780.
- Overalls, Children's. Jobbers Overall Co. No. 143,654; June 7; v. 287; p. 185.
- Overalls, coats, pantaloons, pants, and play-suits. Ironall Factories Co. No. 142,584; May 17; v. 286; p. 628.
- Overalls, coats, pants. Miller Bros. No. 139,169; Jan. 25; v. 282; p. 735.
- Overalls, coats, trousers, &c. J. Baker & Sons. No. 143,903; June 21; v. 287; p. 577.
- Overalls, coveralls, trousers. Kahn Manufacturing Company. No. 149,128; Dec. 6.
- Overalls, coveralls, trousers, and palm beach suits. Kahn Manufacturing Company. No. 147,862; Nov. 1.
- Overalls, jumper-coats, and unionalls. D. D. Metcalf. Nos. 145,740-1; Aug. 16; v. 289; p. 595.
- Overalls, jumpers, and work-shirts. Textile Products Manufacturing Company. Nos. 142,790-1; May 17; v. 286; p. 634.
- Overalls, jumpers, jackets, &c. Manchester Garment Company. No. 140,889; Mar. 29; v. 284; p. 946.
- Overalls, jumpers, pants of khaki, corduroy, &c. Brownstein-Louis Company. No. 145,541; Aug. 9; v. 289; p. 407.
- Overalls, jumpers, shop-coats, and aprons. Smith & Butler. No. 140,213; Mar. 8; v. 284; p. 367.
- Overalls, jumpers, work and negligée shirts. Red Diamond Clothing Company. No. 140,523; Mar. 15; v. 284; p. 585.
- Overalls, men's and women's, khaki clothing, &c. Western Dry Goods Company. No. 139,427; Feb. 1; v. 283; p. 173.
- Overalls, overall coats and suits. Spokane Dry Goods Company. No. 146,513; Sept. 6; v. 290; p. 216.
- Overalls, unionalls, &c. Overland Mfg. Co. No. 141,190; Apr. 12; v. 285; p. 383.
- Overalls, work and dress shirts. Head-Lipscomb-McCormick Co. No. 139,319; Feb. 1; v. 283; p. 169.
- Overalls, work pants and shirts. D. L. Marx Co. No. 148,159; Nov. 8.
- Overalls, work shirts and pants, coats. Textile Products Manufacturing Company. No. 143,835; June 7; v. 287; p. 194.
- Overalls, work-shirts, and work-trousers. Hartmann-Schneider Company. No. 139,317; Feb. 1; v. 283; p. 169.
- Overalls, work-shirts, jackets, and pants. C. C. Hudson. No. 142,277; May 10; v. 286; p. 404.
- Overcoats and suits, Men's and young men's. L. Perlstein. No. 142,704; May 17; v. 286; p. 632.
- Overcoats, coats, vests, trousers, and pants. Neu-Pal Manufacturing Company. No. 143,116; May 24; v. 286; p. 849.
- Overcoats, mackinaws, and reefers. Children's. I. Frank. No. 143,339; May 31; v. 286; p. 1049.
- Overcoats, Men's. Harrods (North America) Ltd. Nos. 143,634-5; June 7; v. 287; p. 184.
- Overcoats, Men's. Harrods (North America) Ltd. No. 145,560; Aug. 9; v. 289; p. 408.
- Overcoats, raincoats, pants, vests. Rosenwald & Weil. No. 148,943; Nov. 29.
- Oxygen, acetylene, and nitrogen. Air Reduction Company, Inc. No. 146,156; Sept. 6; v. 290; p. 197.
- Oxygen-water. Inter-Urban Water Company. No. 139,147; Jan. 25; v. 282; p. 734.
- Oysters. J. and J. W. Elsworth. No. 138,901; Jan. 11; v. 282; p. 380.
- Oysters and clams, Fresh. J. & J. W. Elsworth Co. No. 143,799; June 7; v. 287; p. 190.
- Packing. Federal Rubber Company. No. 148,405; Nov. 15.
- Packing. Massasoit Manufacturing Company. Nos. 138,667-8; Jan. 4; v. 282; p. 188.
- Packing. Massasoit Manufacturing Company. No. 141,605; Apr. 26; v. 285; p. 781.



*Alphabetical list of trade-marks—Continued.*

- Packing. J. M. Rhodes. No. 144,983; July 19; v. 288; p. 622.
- Packing. Westinghouse Air Brake Co. No. 143,512; May 31; v. 286; p. 1054.
- Packing and gaskets, Sheet-. Consolidated Packing & Supply Co. No. 142,251; May 10; v. 286; p. 403.
- Packing and hose, Asbestos. Dick's Asbestos Company. No. 148,389; Nov. 15.
- Packing, Braided asbestos lubricated yarn. Stewart R. Brown Mfg. Co. Inc. No. 149,854; Dec. 27.
- Packing-cases, cartons, &c. Bird & Son. No. 144,172; June 28; v. 287; p. 773.
- Packing, composition sheet-. Pacific Coast Rubber & Supply Co. No. 148,501; Nov. 15.
- Packing-house products. Valley Packing Company. No. 144,645; July 12; v. 288; p. 426.
- Packing, Journal and like. W. C. Lewis. No. 144,598; July 12; v. 288; p. 424.
- Packing-rings, Metallic. St. Louis Piston Ring Corporation. No. 138,713; Jan. 4; v. 282; p. 189.
- Packing, Sheet-. Babbitt Steam Specialty Co. No. 149,341; Dec. 13.
- Packing, Sheet-. Smooth-On Manufacturing Company. No. 145,813; Aug. 16; v. 289; p. 597.
- Packing, Sheet composite machinery. Ferguson & Timson. No. 143,333; May 31; v. 286; p. 1049.
- Packings and hose. Goodyear Tire & Rubber Company. No. 138,904; Jan. 11; v. 282; p. 380.
- Packings, Leather. Horace G. Preston Company. No. 150,064; Dec. 27.
- Packings, Machinery. N. B. Miller. No. 140,894; Mar. 29; v. 284; p. 946.
- Packings, Piston-rod. Huhn Manufacturing Company. No. 139,682; Feb. 8; v. 283; p. 357.
- Padlocks, night-latches. Simmons Hardware Company. No. 142,393; May 10; v. 286; p. 411.
- Pads and cushions, Seat. Widney Company. No. 142,839; May 17; v. 286; p. 636.
- Pads and pad-stands, Memorandum and calendar. G. W. Smith. No. 139,956; Feb. 22; v. 283; p. 760.
- Pads, Coat-front. Famous Coat Front Pad Co. No. 143,602; June 7; v. 287; p. 183.
- Pads, Wear-. Sears Manufacturing Company. No. 141,221; Apr. 12; v. 285; p. 384.
- Paint. American Chemical Paint Company. No. 146,554; Sept. 13; v. 290; p. 421.
- Paint. D. C. Smith. No. 146,367; Sept. 6; v. 290; p. 203.
- Paint. L. Sonneborn Sons. No. 147,444; Oct. 11.
- Paint and liquid waterproof coating. E. R. Oden. Nos. 150,032-3; Dec. 27.
- Paint and varnish remover. J. Nacol. No. 146,303; Sept. 6; v. 290; p. 201.
- Paint and varnish remover. Schalk Chemical Company. No. 147,514; Oct. 18.
- Paint, Barn-. Wadsworth-Howland Company. No. 146,395; Sept. 6; v. 290; p. 204.
- Paint, Bituminous. The Barrett Company. No. 141,858; May 3; v. 286; p. 182.
- Paint, Bituminous. Walles Dove Bitumastic Limited. Nos. 143,208-10; May 24; v. 286; p. 852.
- Paint, Bituminous rubber. F. O. Pierce Company. No. 146,839; Sept. 20; v. 290; p. 636.
- Paint, Coal-tar. Cleaver Manufacturing Company. No. 144,369; July 5; v. 288; p. 192.
- Paint coating or enamel for iron surfaces. J. Davis. No. 149,027; Dec. 6.
- Paint, Cold-water. The Reardon Company. Nos. 139,613-14; Feb. 8; v. 283; p. 353.
- Paint, Cold-water. The Reardon Company. No. 144,898; July 19; v. 288; p. 621.
- Paint, Corrosion, acid, and gas proof. Kingsbury Corporation. No. 149,689; Dec. 20.
- Paint enamel. Continental Varnish Company. No. 142,476; May 17; v. 286; p. 625.
- Paint enamel. H. L. Greenbaum. No. 142,271; May 10; v. 286; p. 404.
- Paint enamel. McDougall-Butler Co. No. 149,440; Dec. 13.
- Paint enamel. Wadsworth-Howland Company. No. 148,556; Nov. 15.
- Paint enamel for automobiles. G. R. Brock. No. 140,572; Mar. 22; v. 284; p. 744.
- Paint enamels. Patek Brothers. No. 150,044; Dec. 27.
- Paint enamels and finishes. Continental Varnish Company. No. 142,477; May 17; v. 286; p. 625.
- Paint enamels, paste and ready-mixed paints, &c. Unkefer Varnish Company. No. 148,555; Nov. 15.
- Paint, Flat wall-. Benjamin Moore & Co. No. 144,864; July 19; v. 288; p. 620.
- Paint for flat wall-finish. Oil-. Devoe & Reynolds Co. No. 146,211; Sept. 6; v. 290; p. 198.
- Paint for hot surfaces, Ready-mixed. Goheen Corporation. No. 148,053; Nov. 8.
- Paint for interior finish. Wadsworth, Howland & Co. No. 146,394; Sept. 6; v. 290; p. 204.
- Paint for iron, steel, &c., Protective. Chipman Chemical Engineering Co. Nos. 146,562-3; Sept. 13; v. 290; p. 421.
- Paint, House-. Goheen Corporation. No. 139,304; Feb. 1; v. 283; p. 169.
- Paint in paste form. R. F. Johnston Paint Company. No. 142,593; May 17; v. 286; p. 628.
- Paint oils, colors, and pigments, turpentine. Chas. R. Sargent Company. No. 147,157; Oct. 4.
- Paint, paint enamel, varnish, &c., Mixed. J. F. Kurpees Paint Company. No. 143,856; June 14; v. 287; p. 400.
- Paint-pigments. Binney & Smith Company. No. 146,177; Sept. 6; v. 290; p. 197.
- Paint-pigments. New Jersey Zinc Company. No. 148,182; Nov. 8.
- Paint-pigments, &c. Titan Co. A/S. No. 141,252; Apr. 12; v. 285; p. 385.
- Paint-pigments and paints. Titan Co. A/S. No. 144,954; July 19; v. 288; p. 623.
- Paint-pigments and ready-mixed paints. Toch Brothers. No. 138,881; Jan. 11; v. 282; p. 378.
- Paint, Ready-mixed. Industrial Paint Company. No. 149,957; Dec. 27.
- Paint-reducer. Turpsene Mfg. Co. No. 146,053; Aug. 23; v. 289; p. 794.
- Paint, Semipaste. Knight & Wall Co. No. 143,063; May 24; v. 286; p. 847.
- Paint, Soft paste. Sherwin-Williams Company. No. 147,167; Oct. 4.
- Paint, stains, varnishes, &c. California Paint Company. Nos. 149,862-3; Dec. 27.
- Paint, varnish, &c., Mixed. Wadsworth-Howland Co. No. 146,396; Sept. 6; v. 290; p. 204.
- Paints. The Arlington Manufacturing Company. No. 141,075; Apr. 12; v. 285; p. 379.
- Paints. Arlington Manufacturing Company. No. 141,726; Apr. 26; v. 285; p. 785.
- Paints. Bon I. Look Stores Company. No. 140,165; Mar. 8; v. 284; p. 366.
- Paints. Frank Bownes Company. No. 149,850; Dec. 27.
- Paints. W. E. Greene. No. 146,240; Sept. 6; v. 290; p. 199.
- Paints. Indiana Indestructible Paint Co. No. 146,487; Sept. 6; v. 290; p. 213.
- Paints. Industrial Paint Company. Nos. 148,446-7; Nov. 15.
- Paints. R. F. Johnston Paint Co. No. 142,282; May 10; v. 286; p. 404.
- Paints. Patek Brothers. No. 146,547; Sept. 6; v. 290; p. 220.
- Paints. Stearins McKay Manufacturing Co. No. 142,147; May 3; v. 286; p. 191.
- Paints. M. D. Swartz. No. 141,243; Apr. 12; v. 285; p. 384.
- Paints. W. F. Witman. No. 150,183; Dec. 27.
- Paints and colors in oil, enamels, varnishes, &c. Beaver Varnish Co. No. 146,686; Sept. 20; v. 290; p. 631.
- Paints and colors, paint-pigments, and varnishes. C. A. Woolsey Paint & Color Company. Nos. 148,627-8; Nov. 15.
- Paints and paint enamels, Ready-mixed. Voltax Company. No. 146,903; Sept. 20; v. 290; p. 638.
- Paints and painters' enamels, stains, fillers, putty, Paste and liquid. H. J. Kuhn. No. 149,977; Dec. 27.
- Paints and painters' materials. Detroit White Lead Works. No. 140,584; Mar. 22; v. 284; p. 744.
- Paints and painters' materials. Empire Varnish Company. No. 143,597; June 7; v. 287; p. 183.
- Paints and painters' materials. Glidden Company. No. 140,129; Mar. 8; v. 284; p. 365.
- Paints and painters' materials. Hazard Lead Works. No. 141,039; Mar. 29; v. 284; p. 952.
- Paints and painters' materials. Indiana Indestructible Paint Co. No. 140,147; Mar. 8; v. 284; p. 365.
- Paints and painters' materials. Kay & Ess Company. Nos. 141,986-8; May 3; v. 286; p. 186.
- Paints and painters' materials. Kentucky Color & Chemical Company. No. 138,980; Jan. 18; v. 282; p. 554.
- Paints and painters' materials. Lincoln Paint & Color Co. No. 139,570; Feb. 8; v. 283; p. 352.
- Paints and painters' materials. W. L. Miller. No. 142,051; May 3; v. 286; p. 188.
- Paints and painters' materials. C. A. Nash & Son. No. 142,631; May 17; v. 286; p. 630.
- Paints and painters' materials. New York Wood Finishers Supply Co. No. 141,419; Apr. 19; v. 285; p. 568.
- Paints and painters' materials. Patterson-Sargent Company. No. 142,702; May 17; v. 286; p. 632.
- Paints and painters' materials. Pratt & Lambert. No. 139,608; Feb. 8; v. 283; p. 353.
- Paints and painters' materials. Walles Dove Bitumastic Limited. Nos. 141,260-7; Apr. 12; v. 285; p. 385.
- Paints and painting materials. Chicago White Lead and Oil Co. No. 143,302; May 31; v. 286; p. 1048.
- Paints and pigments. Thos. Hubback & Son. No. 144,904; July 19; v. 288; p. 622.
- Paints and pigments, colors, putty, &c. C. A. Nash & Son. No. 144,614; July 12; v. 288; p. 425.
- Paints and shingle-stains. G. F. Johnston. No. 141,984; May 3; v. 286; p. 186.
- Paints and tinting paints and stains, Ready-mixed. Samuel Cabot Incorporated. No. 143,789; June 7; v. 287; p. 189.
- Paints and varnishes. Asahel Wheeler Company. No. 149,547; Dec. 13.
- Paints and varnishes. New Orleans Paint & Color Company. No. 142,069; May 3; v. 286; p. 188.
- Paints and varnishes, &c. Renovite Corporation. No. 149,723; Dec. 20.



*Alphabetical list of trade-marks—Continued.*

- Paints and water-proofing-fillers. New Process Chemical Co. No. 149,184; Dec. 6.
- Paints, calcimines, varnishes, &c. Patek Brothers. No. 139,366; Feb. 1; v. 283; p. 171.
- Paints, Certain named. Simmons Hardware Company. No. 146,506; Sept. 6; v. 290; p. 215.
- Paints, Cold-water. Devoe & Reynolds Co. No. 147,053; Sept. 27; v. 290; p. 808.
- Paints, Cold-water. Sherwin-Williams Company. No. 150,108; Dec. 27.
- Paints, colored varnishes, polishing-oil, &c. E. J. Murphy Company. No. 142,627; May 17; v. 286; p. 629.
- Paints, colors in oil, paint enamels, Dry, paste, and ready-mixed. Hampden Paint & Chemical Co. No. 140,821; Mar. 29; v. 284; p. 944.
- Paints, Enamel. Remien & Kuhnert Co. No. 150,075; Dec. 27.
- Paints, enamel paints, and flat wall-finishes, Ready-mixed. Keystone Albumen & Paint Company. No. 148,586; Nov. 15.
- Paints, Enamel, paste, &c. W. H. Stoneman. No. 139,404; Feb. 1; v. 283; p. 172.
- Paints, enamels, colors, and polishes. Patek Brothers. No. 148,505; Nov. 15.
- Paints, enamels, varnishes, &c. Ira D. Washburn Company. No. 144,647; July 12; v. 288; p. 426.
- Paints, enamels, varnishes, and furniture-polish. National Paint Syndicate, Inc. No. 149,461; Dec. 13.
- Paints, enamels, varnishes, and stains. The American Turpentine Company. No. 148,567; Nov. 15.
- Paints, enamels, wood-stains, varnishes. Devoe & Reynolds Co. No. 146,566; Sept. 13; v. 290; p. 421.
- Paints, finishes, colors, &c. American Paint Works. No. 143,842; June 14; v. 287; p. 399.
- Paints, finishes, enamels, japans, varnishes, &c. Sherwin-Williams Company. No. 150,107; Dec. 27.
- Paints for general use. Goheen Corporation. No. 144,777; July 19; v. 288; p. 618.
- Paints for houses, barns, and other structures, Outside. Gardiner-McInnes Co. No. 144,523; July 5; v. 288; p. 199.
- Paints for roofs, bridges, &c. Klein Manufacturing Company. No. 141,153; Apr. 12; v. 285; p. 381.
- Paints in oil, paint enamels, varnishes, &c. Beaver Varnish Company. No. 148,352; Nov. 15.
- Paints, Luminous. Gebrüder Junghans, A.-G. Nos. 144,398-9; July 5; v. 288; p. 193.
- Paints, paint enamels, and finishes of a paint nature. National Magnesite Products Corporation. No. 142,634; May 17; v. 286; p. 630.
- Paints, putty, paint-oils, &c. W. C. Cochrane Co. No. 139,123; Jan. 25; v. 282; p. 733.
- Paints, paint-oils, varnishes, colors. Albert K. Sheldon Company. No. 148,258; Nov. 8.
- Paints, Paste, Colonial Works. No. 141,903; May 3; v. 286; p. 183.
- Paints, Ready-mixed. American Asphalt Roof Corporation. No. 147,069; Oct. 4.
- Paints, Ready-mixed. Bon I. Look Stores Company. No. 140,005; Mar. 1; v. 284; p. 174.
- Paints, Ready-mixed. R. L. Helvie. No. 140,140; Mar. 8; v. 284; p. 365.
- Paints, Ready-mixed. Lowe Brothers Company. No. 140,426; Mar. 15; v. 284; p. 582.
- Paints, Ready-mixed. Patek Brothers. No. 145,897; Aug. 16; v. 289; p. 603.
- Paints, Ready-mixed. Phoenix Paint & Varnish Company. No. 149,482; Dec. 13.
- Paints, Ready-mixed. E. I. du Pont de Nemours & Company. No. 139,521; Feb. 8; v. 283; p. 350.
- Paints, Ready-mixed. E. I. du Pont de Nemours & Company. No. 141,929; May 3; v. 286; p. 184.
- Paints, Ready-mixed. Seattle Paint Company. No. 145,810; Aug. 16; v. 289; p. 597.
- Paints, Ready-mixed. W. H. Stoneman. No. 139,405; Feb. 1; v. 283; p. 172.
- Paints, Ready-mixed. United States Gutta Percha Paint Company. No. 146,385; Sept. 6; v. 290; p. 204.
- Paints, Ready-mixed. J. G. Wilson Corporation. No. 142,397; May 10; v. 286; p. 411.
- Paints, undercoating in the nature of paint, and varnishes, Enamel. Twin City Varnish Co. No. 142,799; May 17; v. 286; p. 635.
- Paints, varnishes, &c. Louisville Paint Mfg. Co. No. 145,134; July 26; v. 288; p. 814.
- Paints, varnishes, and paint enamels. Sailors and Lamb Company. No. 150,094; Dec. 27.
- Paints, varnishes, and paint enamels. Mutual Paint Company. No. 150,019; Dec. 27.
- Paints, varnishes, and stains. Bass-Hueter Paint Co. No. 138,571; Jan. 4; v. 282; p. 185.
- Paints, varnishes, and stains. Bass-Hueter Paint Co. No. 149,836; Dec. 27.
- Paints, varnishes, &c. Dry, ready-mixed, and paste. Standard Varnish Works. No. 147,170; Oct. 4.
- Paints, varnishes, floor-wax, &c. Colonial Works. No. 141,902; May 3; v. 286; p. 183.
- Paints, varnishes, paint enamels. Gardiner-McInnes Co. No. 146,463; Sept. 6; v. 290; p. 211.
- Paints, varnishes, paint enamels, wood-stains, and fillers. C. Albert Kuehnie Co. No. 149,423; Dec. 13.
- Paints, varnishes, wood-stains, paint-enamels, Ready-mixed, and paste. Louisville Paint Mfg. Co. No. 139,611; Feb. 8; v. 283; p. 353.
- Paints, velour blanc, oil-colors, and zinc paste, House-Sunset Paint Company. No. 145,828; Aug. 16; v. 289; p. 598.
- Paints, Water-color. Orlando Chemical Co. No. 147,144; Oct. 4.
- Paints, white or colored, in powdered, paste or liquid form. Maastrichtsche Zinkwit Maatschappij. Nos. 144,840-1; July 19; v. 288; p. 620.
- Paints, wood-stains, Paint enamels, &c. Foy Paint Co. No. 143,006; May 24; v. 286; p. 846.
- Painters' materials. John Dunn, Son & Co. No. 149,370; Dec. 13.
- Painters' supplies, &c. Sailors and Lamb Company. No. 150,095; Dec. 27.
- Pajamas and night-shirts. M. Natelson. No. 143,692; June 7; v. 287; p. 186.
- Pajamas and nightgowns. Goldstein-Kirshner Co. No. 143,023; May 24; v. 286; p. 846.
- Palliative for rheumatism, colds, &c. P. A. Balaszek. No. 146,685; Sept. 20; v. 290; p. 631.
- Palliative for Riggs' disease. F. W. Clements. No. 145,630; Aug. 16; v. 289; p. 592.
- Pamphlets and booklets. International Company. No. 148,450; Nov. 15.
- Pamphlets and circulars, Series of. The Sharples Specialty Company. No. 144,535; July 5; v. 288; p. 200.
- Pamphlets, booklets, and lectures. H. Tipper. No. 140,451; Mar. 15; v. 284; p. 583.
- Pans, Muffin. Chicago Metallic Manufacturing Co. No. 138,796; Jan. 11; v. 282; p. 376.
- Pants and bibs, Infants' stork. N. Scoville. No. 140,677; Mar. 22; v. 284; p. 747.
- Pants, trousers, coats, &c., Knee-. Korrekt Klothes Inc. No. 147,865; Nov. 1.
- Paper. F. A. Flinn, Inc. No. 138,965; Jan. 18; v. 282; p. 554.
- Paper. H. B. Lounsbury. No. 144,835; July 19; v. 288; p. 619.
- Paper. J. L. N. Smythe Company. No. 144,281; June 28; v. 287; p. 777.
- Paper. Walde & Co. No. 139,908; Feb. 22; v. 283; p. 756.
- Paper. Walde & Co. No. 141,268; Apr. 12; v. 285; p. 385.
- Paper. Walde & Co. No. 143,506; May 31; v. 286; p. 1054.
- Paper. Wayagamack Pulp & Paper Co. No. 141,714; Apr. 26; v. 285; p. 784.
- Paper and as a coating for wall-paper, Clay used as a filler in the manufacture of. R. T. Vanderbilt Co. No. 149,277; Dec. 6.
- Paper and blank forms. Tolman Print Inc. No. 142,157; May 3; v. 286; p. 191.
- Paper and board, Binders'. C. B. Hewitt & Brothers. No. 141,377; Apr. 19; v. 285; p. 567.
- Paper and board, Binders'. C. B. Hewitt & Brothers Inc. Nos. 141,379-80; Apr. 19; v. 285; p. 567.
- Paper and cardboard. Strathmore Paper Company. No. 142,335; May 10; v. 286; p. 406.
- Paper and cloth, Abrasive. Minnesota Mining & Mfg. Co. Nos. 141,174-5; Apr. 12; v. 285; p. 382.
- Paper and cloth for book-covers, Prepared. Dux Chemical Solutions Company. No. 148,002; Nov. 8.
- Paper and envelopes, Writing. United Drug Company. No. 139,652; Feb. 8; v. 283; p. 354.
- Paper and envelopes, Writing. United Drug Company. No. 139,654; Feb. 8; v. 283; p. 354.
- Paper and envelopes, Writing. United Drug Company. No. 140,456; Mar. 15; v. 284; p. 583.
- Paper and mailing-envelops. Atlantic Paper Company. No. 145,033; July 26; v. 288; p. 811.
- Paper and mailing-envelops. Carew Manufacturing Company. Nos. 145,058-9; July 26; v. 288; p. 812.
- Paper and mailing-envelops. Hampshire Paper Company. No. 145,107; July 26; v. 288; p. 813.
- Paper and paper towels, Toilet-. A. P. W. Paper Co. No. 145,032; July 26; v. 288; p. 811.
- Paper and paper towels, Toilet, &c. A. P. W. Paper Company. No. 148,201; Nov. 8.
- Paper and stationery. J. W. Butler Paper Company. No. 144,104; June 21; v. 287; p. 586.
- Paper and stationery. Buxton & Skinner Printing and Stationery Company. No. 144,361; July 5; v. 288; p. 192.
- Paper and stationery. Eaton, Crane & Pike Company. No. 144,114; June 21; v. 287; p. 587.
- Paper and stationery. Fred Webster Paper Company. No. 144,151; June 21; v. 287; p. 590.
- Paper and stationery. E. Hassinger. No. 148,071; Nov. 8.
- Paper and stationery. A. I. Randall, Inc. No. 143,869; June 14; v. 287; p. 401.
- Paper and stationery. White & Wyckoff Manufacturing Company. No. 143,878; June 14; v. 287; p. 402.
- Paper and stationery. White & Wyckoff Manufacturing Company. No. 145,925; Aug. 16; v. 289; p. 605.
- Paper and stationery, Certain. Levarac Paper Products Corporation. No. 148,886; Nov. 29.
- Paper and tablets, toilet-paper, and lead-pencils, Writing. Serv-Us Grocery Products Corporation. No. 140,681; Mar. 22; v. 284; p. 747.
- Paper and typewriter-ribbons, Carbon-. De-Fi Manufacturing Company. No. 138,960; Jan. 18; v. 282; p. 554.



- Paper and typewriter-ribbons, Carbon. Manifold Supplies Company. No. 140,284; Mar. 8; v. 284; p. 372.
- Paper bags. Blake, McFall Company. No. 149,345; Dec. 13.
- Paper bags. Crown Willamette Paper Company. Nos. 149,366-7; Dec. 13.
- Paper bags. The Security Bag Company. No. 140,209; Mar. 8; v. 284; p. 367.
- Paper bags. J. Single. No. 142,133; May 3; v. 286; p. 190.
- Paper bags. Victory Bag & Paper Co. No. 147,711; Oct. 25.
- Paper bags. Wortendyke Manufacturing Company. No. 140,246; Mar. 8; v. 284; p. 368.
- Paper bags and boxes. Waltham Bag & Paper Company. No. 148,300; Nov. 8.
- Paper bags, egg-cartons, merchandise-envelops. Continental Paper & Bag Mills. No. 149,891; Dec. 27.
- Paper bags, merchandise-envelops, and paper cart-liners. Kennedy Car Liner & Bag Co. No. 149,315; Dec. 6.
- Paper, Binders for loose sheets of. Paragon Binder Corporation. No. 146,123; Aug. 30; v. 289; p. 1015.
- Paper, Blotting. Joseph Parker & Son Company. No. 145,172; July 26; v. 288; p. 815.
- Paper, Blotting. Standard Paper Mfg. Co. No. 144,946; July 19; v. 288; p. 623.
- Paper, Bond. M. M. Elish & Co. No. 142,994; May 24; v. 286; p. 845.
- Paper, Bond. Gilbert Paper Co. No. 140,037; Mar. 1; v. 284; p. 176.
- Paper, Bond. Gilbert Paper Co. No. 141,943; May 3; v. 286; p. 184.
- Paper, Bond. Neenah Paper Co. No. 143,697; June 7; v. 287; p. 186.
- Paper, Book. J. W. Butler Paper Company. No. 144,103; June 21; v. 287; p. 586.
- Paper, Book and post-card. Champion Coated Paper Company. No. 140,771; Mar. 29; v. 284; p. 942.
- Paper boxes and cartons. Duro Paper Products Co. No. 148,001; Nov. 8.
- Paper boxes, razor and shears cases, &c. George V. Steffens Paper Box Co. No. 146,886; Sept. 20; v. 290; p. 638.
- Paper, Carbon. Illinois Carbon & Ribbon Co. No. 144,803; July 19; v. 288; p. 619.
- Paper, Carbon. R. G. Landis. No. 149,318; Dec. 6.
- Paper, cardboard, and wood-board, News-print. Price Brothers & Company. No. 140,193; Mar. 8; v. 284; p. 366.
- Paper, Cigarette. Waldes & Co. No. 143,211; May 24; v. 286; p. 852.
- Paper, cigarette-makers' cigarette-tubes, Cigarette. Waldes & Co. Nos. 146,904-5; Sept. 20; v. 290; p. 638.
- Paper cleaner, carpet-cleaner, paint and enamel wash, &c. Wall. Sunset Color Works. No. 140,986; Mar. 29; v. 284; p. 949.
- Paper, Colored writing. J. W. Butler Paper Company. No. 146,191; Sept. 6; v. 290; p. 198.
- Paper, Cover. Hampden Glazed Paper & Card Co. No. 149,677; Dec. 20.
- Paper, Cover. A. R. Rapp Company. No. 139,191; Jan. 25; v. 282; p. 735.
- Paper, Drawing. C. B. Hewitt & Brothers. No. 142,564; May 17; v. 286; p. 628.
- Paper drinking-cups. American Paper Goods Co. No. 149,820; Dec. 27.
- Paper drinking-cups. United States Envelope Company. No. 149,531; Dec. 13.
- Paper, envelopes, and cardboard. Main Paper Stock Co. No. 143,392; May 31; v. 286; p. 1050.
- Paper, envelopes, tablets, blank books. J. C. Blair Company. Nos. 141,085-7; Apr. 12; v. 285; p. 379.
- Paper, envelopes, tablets, and blank books. J. C. Blair Company. No. 142,452; May 17; v. 286; p. 624.
- Paper facial cloth and toweling. G. M. Dunsmore. No. 141,115; Apr. 12; v. 285; p. 380.
- Paper-fasteners. Hensel-Mulranen Company. No. 148,073; Nov. 8.
- Paper fixtures, Toilet. Associated Manufacturers Company. No. 144,170; June 28; v. 287; p. 773.
- Paper fixtures, Toilet. J. Frederick Palmer Mfg. Co. No. 142,869; May 17; v. 286; p. 638.
- Paper flowers, figures, &c. L. E. Whitteker. No. 139,230; Jan. 25; v. 282; p. 737.
- Paper for poster and label work. J. W. Butler Paper Company. No. 145,052; July 26; v. 288; p. 812.
- Paper for wiping ink from the faces of dies. Paper Manufacturers Co. No. 145,284; July 26; v. 288; p. 824.
- Paper for wiping ink from the face of dies. Paper Manufacturers Co. No. 147,508; Oct. 18.
- Paper for wrapping and packing, Reinforced. American Reinforced Paper Company. No. 140,313; Mar. 15; v. 284; p. 579.
- Paper for writing, typewriting, &c. Groveton Paper Company. No. 146,241; Sept. 6; v. 290; p. 199.
- Paper, Fruit-wrapping tissue. Graham Paper Company. No. 148,058; Nov. 8.
- Paper, Grease-proof parchment. Mountain Mill Paper Company. No. 138,677; Jan. 4; v. 282; p. 188.
- Paper, Gummed. Ideal Coated Paper Company. No. 145,118; July 26; v. 288; p. 814.
- Paper, Ledger. American Writing Paper Company. No. 146,423; Sept. 6; v. 290; p. 206.
- Paper, Ledger. J. W. Butler Paper Co. Nos. 142,190-1; May 3; v. 286; p. 192.
- Paper, Ledger. Neenah Paper Company. No. 142,636; May 17; v. 286; p. 630.
- Paper, Ledger. Peerless Paper Company. No. 146,835; Sept. 20; v. 290; p. 636.
- Paper, Ledger and writing. Gilbert Paper Company. No. 145,099; July 26; v. 288; p. 813.
- Paper, Ledger, writing and bond. Neenah Paper Company. No. 149,462; Dec. 13.
- Paper, Legal, letter, and wrapping. J. Meyers Stationery & Printing Co. No. 147,236; Oct. 4.
- Paper, Lithograph. J. W. Butler Paper Company. No. 142,194; May 3; v. 286; p. 192.
- Paper napkins. Groff Paper Company. No. 145,890; Aug. 16; v. 289; p. 602.
- Paper, Napkins, towels, and toilet. A. P. W. Paper Company. No. 145,882; Aug. 16; v. 289; p. 601.
- Paper, Onion-skin. Esleeck Mfg. Co. No. 143,598; June 7; v. 287; p. 183.
- Paper pads, tablets, and blank books. J. C. Blair Company. No. 139,761; Feb. 22; v. 283; p. 751.
- Paper, paper napkins and towels, Toilet. Wortendyke Manufacturing Co. No. 141,720; Apr. 26; v. 285; p. 784.
- Paper, paper napkins and towels, Toilet. Wortendyke Manufacturing Co. No. 142,182; May 3; v. 286; p. 192.
- Paper, paper napkins and towels, Toilet. Wortendyke Manufacturing Co. No. 144,500; July 5; v. 288; p. 196.
- Paper, paper napkins and towels, Toilet. Wortendyke Manufacturing Co. No. 149,332; Dec. 6.
- Paper, Print. Perkins, Goodwin Co. No. 143,714; June 7; v. 287; p. 186.
- Paper, Printing. Blunden-Lyon Company. No. 149,642; Dec. 20.
- Paper, Printing. S. D. Warren Company. No. 145,924; Aug. 16; v. 289; p. 605.
- Paper, Printing. S. D. Warren Company. No. 148,305; Nov. 8.
- Paper, Printing and writing. Ashby Printing Company. No. 141,727; Apr. 26; v. 285; p. 785.
- Paper, Printing or writing. Ashby Printing Company. No. 144,688; July 19; v. 288; p. 615.
- Paper, Printing and writing. Henry Lindenmeyr & Sons. No. 140,623; Mar. 22; v. 284; p. 745.
- Paper, Printing, writing, cover, and bond. Peninsular Paper Company. No. 146,836; Sept. 20; v. 290; p. 636.
- Paper, Roofing. C. B. Hewitt & Brothers. No. 145,380; Aug. 2; v. 289; p. 179.
- Paper sacks or bags. Continental Paper Bag Co. No. 141,905; May 3; v. 286; p. 183.
- Paper, Safety. Lithographers Cooperative Association. No. 148,141; Nov. 8.
- Paper, Safety. Torman Bassett Company. Nos. 149,059-60; Dec. 6.
- Paper, Sheet. Geo. A. Lehmann Paper Company. No. 144,427; July 5; v. 288; p. 194.
- Paper, Sketching. Keuffel & Esser Company. No. 144,822; July 19; v. 288; p. 619.
- Paper, Sulfite bond. International Paper Company. No. 141,146; Apr. 12; v. 285; p. 381.
- Paper table-napkins, table covers, and doilies. Neben Manufacturing Company. No. 143,696; June 7; v. 287; p. 186.
- Paper, tablets, and mailing-envelops, Writing. Whiting Paper Company. No. 143,777; June 7; v. 287; p. 188.
- Paper, Toilet. Albany Perforated Wrapping Paper Co. No. 142,409; May 17; v. 286; p. 623.
- Paper, Toilet. W. T. Cole Paper Company. No. 144,723; July 19; v. 288; p. 616.
- Paper, Toilet. Edwin T. Garrett Co. No. 140,387; Mar. 15; v. 284; p. 581.
- Paper, Toilet. Globe Grocery Stores. No. 140,391; Mar. 15; v. 284; p. 581.
- Paper, Toilet. Oswego River Paper Mills. No. 139,861; Feb. 22; v. 283; p. 754.
- Paper, Toilet. A. P. W. Paper Co. No. 146,414; Sept. 6; v. 290; p. 205.
- Paper, Toilet and tissue. Ailing and Cory Co. No. 138,889; Jan. 11; v. 282; p. 379.
- Paper toilet-shields. Public Service Corporation. No. 138,919; Jan. 11; v. 282; p. 382.
- Paper towels. Scott Paper Company. No. 140,963; Mar. 29; v. 284; p. 948.
- Paper towels. Stevens & Thompson Paper Company. No. 149,252; Dec. 6.
- Paper towels and napkins. Scott Paper Company. No. 145,216; July 26; v. 288; p. 817.
- Paper towels and napkins. Scott Paper Company. No. 146,355; Sept. 6; v. 290; p. 203.
- Paper towels and toilet-paper. Rochester Germicide Company. No. 139,875; Feb. 22; v. 283; p. 755.
- Paper towels, napkins, wrappers, &c. Golco Sanitary System. No. 143,022; May 24; v. 286; p. 846.
- Paper tubes, Flexible. Kellert-Schiauch-Gesellschaft m. b. H. No. 138,828; Jan. 11; v. 282; p. 377.
- Paper, Wall. Bazille & Partridge. No. 143,549; June 7; v. 287; p. 181.
- Paper, Wall. Cincinnati Wall Paper Company. No. 145,570; June 7; v. 287; p. 182.
- Paper, Wall. Cross & Beardsley. No. 147,921; Nov. 8.



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- Paper, Wall-. Kansas City Wall Paper Company. No. 143,374; May 31; v. 286; p. 1050.
- Paper, Wall-. Louisville Wall Paper Company. No. 143,390; May 31; v. 286; p. 1050.
- Paper, Wall-. Nebraska Wall Paper Company. No. 143,413; May 31; v. 286; p. 1051.
- Paper, Wall-. H. P. Rawlings Wall Paper Co. No. 144,625; July 12; v. 288; p. 425.
- Paper, Wall-. H. W. Webster. No. 146,401; Sept. 6; v. 290; p. 204.
- Paper, Wax-. Waxide Paper Co. No. 148,306; Nov. 8.
- Paper, Waxed. Waxed Paper Company. No. 150,165; Dec. 27.
- Paper, Wrapping-. Chatfield and Woods Co. No. 139,776; Feb. 22; v. 283; p. 751.
- Paper, Wrapping-. Old Dominion Paper Company. No. 140,918; Mar. 29; v. 284; p. 947.
- Paper, Wrapping-. The Union Paper & Twine Co. of Michigan. Nos. 139,221-4; Jan. 25; v. 282; p. 736.
- Paper, Wrapping-. Whitaker Paper Company. No. 146,404; Sept. 6; v. 290; p. 204.
- Paper, Wrapping and writing. E. J. Stillwell Paper Company. No. 144,637; July 12; v. 288; p. 426.
- Paper, Writing-. L. L. Brown Paper Company. No. 144,357; July 5; v. 288; p. 191.
- Paper, Writing-. J. W. Butler Paper Company. No. 145,053; July 26; v. 288; p. 812.
- Paper, Writing-. Derrivale Linen Company. No. 142,981; May 24; v. 286; p. 845.
- Paper, Writing-. Fox River Paper Company. No. 148,651; Nov. 22.
- Paper, Writing-. New Safety Paper Company. No. 147,876; Nov. 1.
- Paper, Writing-. H. G. Pohlmann. No. 148,214; Nov. 8.
- Paper, Writing-. Western Bottle Manufacturing Company. No. 141,270; Apr. 12; v. 285; p. 355.
- Paper, Writing-. Whiting Paper Company. No. 138,928; Jan. 4; v. 282; p. 383.
- Paper, Writing-. Whiting Paper Company. No. 140,046; Mar. 1; v. 284; p. 177.
- Paper, Writing and typewriting. Fred Webster Paper Company. No. 148,307; Nov. 8.
- Papers. J. W. Butler Paper Company. No. 144,306; June 28; v. 287; p. 779.
- Papers. The Central Ohio Paper Company. No. 144,364; July 5; v. 288; p. 192.
- Papers. C. B. Hewitt and Brothers. No. 141,378; Apr. 19; v. 285; p. 567.
- Papers and cloths, drawing and engineering instruments. Blue and brown print. C. H. Robbins. No. 146,344; Sept. 6; v. 290; p. 202.
- Papers and cloths, Flint, garnet, and emery. American Glue Company. No. 144,159; June 28; v. 287; p. 773.
- Papers and fabricated woodwork consisting of sash, doors, &c., Building and roofing. Carr, Ryder & Adams Co. No. 141,030; Mar. 29; v. 284; p. 957.
- Papers and mailing-envelops, Writing-. Whiting Paper Company. No. 147,527; Oct. 18.
- Papers and paper napkins, Tissue and waxed. American Tissue Mills. No. 143,531; June 7; v. 287; p. 181.
- Papers and periodical magazines, Story-. Perry Mason Company. No. 144,005; June 21; v. 287; p. 581.
- Papers and tubes for cigarettes, Cigarette-. C. E. Pfeiffer. No. 150,054; Dec. 27.
- Papers and writing-tablets. Osborn Paper Company. No. 139,091; Jan. 18; v. 282; p. 560.
- Papers, Blotter, box, and cover. District of Columbia Paper Manufacturing Company. Nos. 139,929-30; Feb. 22; v. 283; p. 758.
- Papers, Blotting, box, cover, and text-book. District of Columbia Paper Manufacturing Company. No. 143,586; June 7; v. 287; p. 182.
- Papers, Bond and onion-skin. M. M. Elish & Co. No. 139,932; Feb. 22; v. 283; p. 758.
- Papers, Box and cover. District of Columbia Paper Manufacturing Company. No. 140,036; Mar. 1; v. 284; p. 176.
- Papers, Certain. Educational Supply Company. No. 149,043; Dec. 6.
- Papers, Certain. Fischel Paper Company. No. 148,022; Nov. 8.
- Papers, Certain. Union Card & Paper Co. No. 148,718; Nov. 22.
- Papers, Cigarette-. Michalitschke Bros. & Co. No. 143,816; June 7; v. 287; p. 192.
- Papers, Cigarette-. "Turnac" Turkish Macedonian Tobacco Company. No. 146,895; Sept. 20; v. 290; p. 638.
- Papers, Cover and box. District of Columbia Paper Manufacturing Company. Nos. 142,984-5; May 24; v. 286; p. 845.
- Papers, Filter, paraffin-wax, and toilet. Citizens' Wholesale Supply Company. No. 146,196; Sept. 6; v. 290; p. 198.
- Papers. Kalamazoo Vegetable Parchment Co. No. 145,127; July 26; v. 288; p. 814.
- Papers, Ledger-. Alling and Cory Company. No. 148,974; Dec. 6.
- Papers, Ledger and writing. Whiting Paper Company. No. 143,773; June 7; v. 287; p. 188.
- Papers, Ledger, writing, and printing. Stone & Andrew. No. 144,480; July 5; v. 288; p. 195.
- Papers, Moisture-proof, paraffin, and wax. Cleveland Waterproof Paper Company. No. 142,965; May 24; v. 286; p. 844.
- Papers, paper napkins, &c., Plain and crepe tissue. American Tissue Mills. No. 144,684; July 19; v. 288; p. 615.
- Papers, Papeterie-. American Writing Paper Company. No. 139,061; Jan. 18; v. 282; p. 557.
- Papers, Papeterie-. American Writing Paper Company. No. 139,921; Feb. 22; v. 283; p. 757.
- Papers, Papeterie-. American Writing Paper Company. No. 140,314; Mar. 15; v. 284; p. 579.
- Papers, Parchment-. Kalamazoo Vegetable Parchment Co. No. 142,210; May 3; v. 286; p. 192.
- Papers, Printing-. Knight, Allen & Clark. No. 144,594; July 12; v. 288; p. 424.
- Papers, Printing and writing. Central Ohio Paper Co. No. 146,438; Sept. 6; v. 290; p. 208.
- Papers, Printing and writing. Millers Falls Paper Company. No. 141,295; Apr. 12; v. 285; p. 388.
- Papers, Printing and writing. Millers Falls Paper Company. No. 142,888; May 17; v. 286; p. 640.
- Papers Tissue-. Crystal Tissue Co. No. 147,765; Nov. 1.
- Papers, Waterproof. J. J. White Paper Co. No. 146,406; Sept. 6; v. 290; p. 204.
- Papers, Writing-. Corlies, Macy & Co. No. 147,971; Nov. 8.
- Papers, Writing-. Osborn Paper Company. No. 140,540; Mar. 15; v. 284; p. 587.
- Papers, Writing, printing, &c. Albemarle Paper Mfg. Co. No. 148,343; Nov. 15.
- Papers, writing, printing, ruled, and for envelops. J. W. Butler Paper Company. No. 144,305; June 28; v. 287; p. 779.
- Papeteries, writing and typewriting paper, &c. San Antonio Drug Co. No. 143,159; May 24; v. 286; p. 851.
- Papeteries, writing-paper, and mailing-envelops. John A. Murphy Company. No. 148,170; Nov. 8.
- Papeteries, writing tablets and paper, envelops. Powers Paper Company. No. 142,894; May 17; v. 286; p. 641.
- Paprika, Spanish. V. Rodriguez. No. 147,023; Sept. 27; v. 290; p. 805.
- Paprika, Spanish. V. Rodriguez. No. 149,491; Dec. 13.
- Paprika, Spanish. V. Rodriguez. Nos. 150,081-2; Dec. 27.
- Paprika, Spanish. V. Rodriguez. No. 150,150; Dec. 27.
- Parasols and umbrellas. J. A. Migel, Inc. No. 141,172; Apr. 12; v. 285; p. 382.
- Parasols and umbrellas. J. A. Migel, Inc. No. 142,887; May 17; v. 286; p. 640.
- Parasols and umbrellas. Polan, Katz & Co. No. 144,026; June 21; v. 287; p. 581.
- Partitions and doors. Folding Partition Company. No. 146,926; Sept. 20; v. 290; p. 641.
- Partitions and railings and interior trim, Removable or knockdown. Improved Office Partition Company. No. 142,580; May 17; v. 286; p. 628.
- Paste. Liverpool Adhesive Paste Co. No. 147,633; Oct. 25.
- Paste, Adhesive. W. E. Malm. No. 142,603; May 17; v. 286; p. 629.
- Paste, Adhesive. United Drug Company. No. 142,805; May 17; v. 286; p. 635.
- Paste and dry paints, varnishes, primers, &c. Ditzler Color Company. No. 143,390; Nov. 15.
- Paste for massaging the gums. E. Cureton. No. 141,916; May 3; v. 286; p. 184.
- Paste, Library, office, &c. Zim Products Co. No. 148,322; Nov. 8.
- Paste preparation having detergent and healing properties. Magic Kleno Manufacturing Co. No. 145,407; Aug. 2; v. 289; p. 180.
- Paste products, Italian. Homac Corporation. No. 148,079; Nov. 8.
- Paste, Rat and roach. Stearns' Electric Paste Co. No. 144,063; June 21; v. 287; p. 582.
- Paste, Tooth-. J. F. Sullivan. No. 146,009; Aug. 23; v. 289; p. 789.
- Pastils for throat affections, Antiseptic. Vox Chemical Company. No. 140,240; Mar. 8; v. 284; p. 368.
- Pastries, cakes, cookies. One Thousand One Madison Avenue French Pastry & Restaurant Co. No. 146,829; Sept. 20; v. 290; p. 636.
- Pastries, cakes, doughnuts, mince-meat. L. J. Johnson. No. 141,983; May 3; v. 286; p. 186.
- Pastries, Cream-filled. Davis System Bakery. No. 147,586; Oct. 25.
- Patches and inner tubes. Darling, Miller & Co. No. 138,606; Jan. 4; v. 282; p. 186.
- Patches, Repair-. Las-Stik Patch Mfg. Co. No. 144,426; July 5; v. 288; p. 194.
- Patches, Vulcanizing-. Magic Auto Devices Company. No. 148,472; Nov. 15.
- Pattern-marking machines. J. A. Rosenfeld. No. 149,724; Dec. 20.
- Patterns. Butterick Publishing Company. No. 142,952; May 24; v. 286; p. 844.
- Pavements and bituminous paving materials, Street-. Has-sam Paving Company. No. 148,070; Nov. 8.



- Paving material. Bitoslag Paving Company. No. 138,582; Jan. 4; v. 282; p. 185.
- Pea-pickers. Perfect Pea Picker Company. No. 140,517; Mar. 15; v. 284; p. 585.
- Peaches, Fresh. L. T. Foss. No. 149,061; Dec. 6.
- Peanut-bars, milk-chocolate, &c. Bachman Chocolate Manufacturing Co. No. 139,063; Jan. 18; v. 282; p. 557.
- Peanut-brittle. J. R. Council. No. 149,895; Dec. 27.
- Peanut-butter. J. Bernstamm. No. 144,700; July 19; v. 288; p. 615.
- Peanut-butter. Blue Bell Peanut Butter Company. No. 147,931; Nov. 8.
- Peanut-butter. W. J. Hirsch Co. No. 142,568; May 17; v. 286; p. 628.
- Peanut-butter. Kellogg Toasted Corn Flake Co. No. 147,456; Oct. 18.
- Peanut-butter. Peanut Products Corporation. No. 142,703; May 17; v. 286; p. 632.
- Peanut-butter. Short, Philips & Healy. No. 146,360; Sept. 6; v. 290; p. 203.
- Peanut-butter. Southern Cotton Oil Company. No. 142,143; May 3; v. 286; p. 191.
- Peanut-butter. Walter J. Hirsch Co. No. 145,113; July 26; v. 288; p. 814.
- Peanut-butter, salted peanuts. Walter J. Hirsch Company. No. 141,384; Apr. 19; v. 285; p. 567.
- Peanut-oil. C. Hollinshed Co. No. 142,570; May 17; v. 286; p. 628.
- Peanut-oil. Rogers Company. No. 144,901; July 19; v. 288; p. 621.
- Peanuts in the shell. Franklin Peanut Company. No. 147,603; Oct. 25.
- Peanuts in the shell. Franklin Peanut Company. No. 148,031; Nov. 8.
- Peanuts in the shell. Franklin Peanut Company. No. 148,833; Nov. 29.
- Peanuts, Salted. United Nut and Chocolate Company. No. 141,257; v. 285; p. 385.
- Peanuts, Salted. Walter J. Hirsch Company. No. 140,609; Mar. 22; v. 284; p. 745.
- Pearls. L. Bamberger & Co. No. 139,758; Feb. 22; v. 283; p. 751.
- Pearls. M. Dottenheim. Nos. 142,506-9; May 17; v. 286; p. 626.
- Pearls. S. Gutter. No. 144,792; July 19; v. 288; p. 618.
- Pearls. Kaufmann Department Stores. No. 140,410; Mar. 15; v. 284; p. 582.
- Pearls. A. D. Manchester. No. 142,299; May 10; v. 286; p. 405.
- Pearls and pearl necklaces. F. R. Heinick. No. 142,273; May 10; v. 286; p. 404.
- Pearls and reconstructed gems, Imitation. Ciro Pearls Ltd. No. 147,959; Nov. 8.
- Pearls, Artificial. C. E. Edson. No. 147,592; Oct. 25.
- Pearls, Artificial. Lippman's. No. 142,291; May 10; v. 286; p. 405.
- Pearls, artificial and synthetic pearls. Karpeles Company. No. 139,825; Feb. 22; v. 283; p. 753.
- Pearls, Imitation. M. Gugenheim, Inc. No. 144,790; July 19; v. 288; p. 618.
- Pearls, Imitation or artificial. F. C. Osmers. No. 146,318; Sept. 6; v. 290; p. 202.
- Pearls, Natural and artificial. W. T. Grant Company. No. 148,656; Nov. 22.
- Pearls, precious, semiprecious, and imitation jewels, Artificial. Lassner & Bamberger Inc. No. 149,586; Dec. 13.
- Pearls, precious, semiprecious, and synthetic stones used as jewelry. Czechoslovak Bead Company. No. 143,310; May 31; v. 286; p. 1048.
- Pears, Fresh. J. A. de Back. No. 145,943; Aug. 23; v. 289; p. 787.
- Peelers, washers, slicers, exhaust-boxes, &c., Fruit and vegetable. Premier Machinery Company. No. 150,062; Dec. 27.
- Pen-points, Metallic. C. Howard Hunt Pen Co. No. 144,232; June 28; v. 287; p. 775.
- Pen-points, Metallic. Francis Pratt & Son. No. 145,178; July 26; v. 288; p. 815.
- Pens and magazine pencils, Fountain-. De Witt-La France Co. No. 140,364; Mar. 15; v. 284; p. 580.
- Pens, Feeding attachment for. C. F. Clarke. No. 141,898; May 3; v. 286; p. 183.
- Pens, Fountain-. Conklin Pen Manufacturing Co., Inc. No. 147,763; Nov. 1.
- Pens, Fountain-. Dunn Pen Company. Nos. 149,035-7; Dec. 6.
- Pens, Fountain-. Edison-Cromer Pen Co. No. 141,118; Apr. 12; v. 285; p. 380.
- Pens, Fountain-. S. A. Harris. No. 146,576; Sept. 13; v. 290; p. 421.
- Pens, Fountain-. Simplo Füllfeder Gesellschaft Voss, Lausen & Dziambor. No. 148,262; Nov. 8.
- Pens, Fountain-. Simplo Füllfeder Gesellschaft Voss, Lausen & Dziambor. No. 148,710; Nov. 22.
- Pens, Stylographic. Salz Brothers. No. 148,530; Nov. 15.
- Pencils. Joseph Dixon Crucible Company. No. 143,316; May 31; v. 286; p. 1048.
- Pencils. Joseph Dixon Crucible Company. No. 147,992; Nov. 8.
- Pencils and crayons. Certain. The Thomson & Diggs Company. No. 149,258; Dec. 6.
- Pencils and fountain-pens, Stylographic. I. J. Bissell. No. 144,349; July 5; v. 288; p. 191.
- Pencils and leads and erasers therefor, Propel-. Hoge Manufacturing Company. No. 145,114; July 26; v. 288; p. 814.
- Pencils, Lead-. American Lead Pencil Company. No. 138,890; Jan. 11; v. 282; p. 379.
- Pencils, Lead-. American Lead Pencil Company. No. 141,837; May 3; v. 286; p. 181.
- Pencils, Lead-. American Lead Pencil Company. No. 143,233; May 24; v. 286; p. 855.
- Pencils, Lead-. American Lead Pencil Company. No. 143,530; June 7; v. 287; p. 181.
- Pencils, Lead-. Eagle Pencil Company. Nos. 141,538-9; Apr. 26; v. 285; p. 779.
- Pencils, Lead-. Eagle Pencil Company. No. 148,820; Nov. 29.
- Pencils, Lead-. Eberhard Faber Pencil Co. No. 139,525; Feb. 8; v. 283; p. 350.
- Pencils, Lead-. Simmons Hardware Company. No. 138,922; Jan. 11; v. 282; p. 382.
- Pencils, Lead-. Standard Pencil Co. No. 143,180; May 24; v. 286; p. 851.
- Pencils, Lead-. Wahl Company. No. 147,712; Oct. 25.
- Pencils, Lead, copying, and color. Rikkers Brothers. No. 140,671; Mar. 22; v. 284; p. 747.
- Pencils, Magazine-. Brown & Bigelow. No. 144,356; July 5; v. 288; p. 191.
- Pencils, Magazine and automatic lead-. Eberhard Faber. No. 139,136; Jan. 25; v. 282; p. 734.
- Pencils, pencil-holders, crayons, &c., Lead and magazine. Waldes & Co. No. 140,005; Mar. 29; v. 284; p. 949.
- Penknives, butcher, table, and kitchen knives. Allen Cutlery Company. No. 141,831; May 3; v. 286; p. 181.
- Peppers, pimentos, tomato jam, &c., Pickled sweet. Kehoe Preserving Company. No. 147,119; Oct. 4.
- Percale dress goods in the piece. Carson, Pirie, Scott & Co. No. 149,869; Dec. 27.
- Perfume. Andrew Jergens Company. No. 148,674; Nov. 22.
- Perfume. A. Flores. No. 138,966; Jan. 18; v. 282; p. 554.
- Perfume-cream for neutralizing body-odors. O. J. Kolar. No. 138,655; Jan. 4; v. 282; p. 188.
- Perfume, rouge, &c. A. D. Lindemann. No. 142,012; May 3; v. 286; p. 187.
- Perfume, toilet preparations and dentifrices. Mellier Company, Perfumer. No. 139,003; Jan. 18; v. 282; p. 555.
- Perfume, toilet water, cold-cream, &c. Peggy Hoyt, Inc. No. 139,820; Feb. 22; v. 283; p. 753.
- Perfume, toilet water, rouge, &c. Mark W. Allen & Co. No. 145,591; Aug. 16; v. 289; p. 591.
- Perfumes. Colgate & Company. No. 141,339; Apr. 19; v. 285; p. 566.
- Perfumes. Colgate & Company. Nos. 149,884-7; Dec. 27.
- Perfumes. F. W. Fitch Company. No. 149,055; Dec. 6.
- Perfumes. W. R. Hollingshead Company. No. 140,144; Mar. 8; v. 284; p. 365.
- Perfumes. E. Loewenstern. No. 140,164; Mar. 8; v. 284; p. 366.
- Perfumes. G. C. Spencer. No. 139,397; Feb. 1; v. 283; p. 172.
- Perfumes. G. C. Spencer. No. 145,920; Aug. 16; v. 289; p. 605.
- Perfumes. G. M. Wildes. No. 146,019; Aug. 23; v. 289; p. 790.
- Perfumes and face-powders. K. M. Boorman. No. 146,955; Sept. 27; v. 290; p. 803.
- Perfumes and incense. Clover Products Corporation. No. 147,085; Oct. 4.
- Perfumes, cosmetics, and skin-lotions. L. Philippe. No. 143,135; May 24; v. 286; p. 850.
- Perfumes, face-powders, toilet water, &c. Melba Manufacturing Company. No. 148,902; Nov. 29.
- Perfumes, incense, and toilet articles. Kabushiki Kaisha Hirao Sampei Shoten. No. 139,332; Feb. 1; v. 283; p. 170.
- Perfumes, Liquid and powdered. Colgate & Company. No. 144,724; July 19; v. 288; p. 616.
- Perfumes, rice powders, cologne-waters, &c. Société Anonyme Parfumerie Ramses. No. 143,173; May 24; v. 286; p. 851.
- Perfumes, rouges, &c. Société Anonyme De Luzy. No. 146,510; Sept. 6; v. 290; p. 216.
- Perfumes, toilet-creams, dentifrices, &c. E. Rodier & Cie. No. 148,708; Nov. 22.
- Perfumes, toilet water, &c. M. M. R. Vve. Grenoville. Nos. 148,843-5; Nov. 29.
- Perfumes, toilet waters. F. J. de S. Coty. No. 146,719; Sept. 20; v. 290; p. 632.
- Perfumes, toilet waters, &c. F. J. de S. Coty. No. 146,717; Sept. 20; v. 290; p. 632.
- Perfumes, toilet waters, &c. F. J. de S. Coty. Nos. 146,980-1; Sept. 27; v. 290; p. 804.
- Perfumes, toilet waters, &c. M. M. R. Vve. Grenoville. No. 148,847; Nov. 29.
- Perfumes, toilet waters, &c. M. M. R. Vve. Grenoville. No. 148,849; Nov. 29.
- Perfumes, toilet water, &c. Parfumerie Houbigant. No. 146,772; Sept. 20; v. 290; p. 634.
- Perfumes, toilet water, creams, talcum powder, &c. Lundborg Company. No. 140,876; Mar. 29; v. 284; p. 945.
- Perfumes, toilet waters, &c. Parfumerie Houbigant. Nos. 141,388-93; Apr. 19; v. 285; p. 567.



*Alphabetical list of trade-marks—Continued.*

- Perfumes, toilet waters, &c. Parfumerie Houbigant. No. 146,128; Aug. 30; v. 289; p. 1015.
- Perfumes, toilet waters, &c. M. M. R. Vve. Grenoville. No. 149,086; Dec. 6.
- Perfumes, toilet waters, face and body powders. Dettie Company. No. 139,974; Mar. 1; v. 284; p. 173.
- Perfumes, toilet waters, and brilliantine. F. J. de S. Coty. Nos. 146,975-9; Sept. 27; v. 290; p. 804.
- Perfumes, toilet waters, face-lotion, &c. M. M. Richard Vve. Grenoville. No. 150,156; Dec. 27.
- Perfumes, toilet waters, face-lotions, &c. M. Roussel. No. 148,735; Nov. 22.
- Perfumes, toilet waters, face-powder, &c. Palmers, Limited. No. 143,419; May 31; v. 286; p. 1051.
- Perfumes, toilet waters, face-powders, &c. F. J. de S. Coty. No. 146,974; Sept. 27; v. 290; p. 804.
- Perfumes, toilet waters, face-powders. Frederick Stearns & Co. No. 146,145; Aug. 30; v. 289; p. 1015.
- Perfumes, toilet waters, face-powders, &c. Heinrich Chemical Company. No. 146,104; Aug. 30; v. 289; p. 1014.
- Perfumes, toilet waters, face-powders, &c. Parfumerie Houbigant. Nos. 146,322-3; Sept. 6; v. 290; p. 202.
- Perfumes, toilet waters, pomades, rice powders, &c. J. Brach. No. 142,945; May 24; v. 286; p. 844.
- Perfumes, toilet waters, rouges, &c. Société Anonyme, de Luzy. No. 147,248; Oct. 4.
- Perfumery, facial paints, &c. Société Anonyme Parfumerie Savonnerie Gilot. No. 146,369; Sept. 6; v. 290; p. 203.
- Perfumery, hair tonic, lotions, &c. B. P. Healy. No. 141,138; Apr. 12; v. 285; p. 381.
- Perfumery products, Certain. S. Greiner. No. 147,107; Oct. 4.
- Periodical. American Issue Publishing Company. No. 140,069; Mar. 8; v. 284; p. 363.
- Periodical. Textile Publishing Company. No. 140,228; Mar. 8; v. 284; p. 368.
- Periodical house organ published semimonthly. Ford Motor Company. No. 144,766; July 19; v. 288; p. 178.
- Periodical issued monthly. National Aniline & Chemical Company, Inc. No. 148,172; Nov. 8.
- Periodical, Monthly. Armco Culvert & Flume Manufacturers' Association. No. 142,918; May 24; v. 286; p. 843.
- Periodicals, Monthly. Gardner, Moffat Co. No. 143,010; May 24; v. 286; p. 846.
- Periodical, Monthly. Goodyear Tire & Rubber Company. No. 143,624; June 7; v. 287; p. 184.
- Periodical, Monthly. International Correspondence Schools. No. 741,341; Oct. 11.
- Periodical, Monthly. National Bank of Commerce in New York. No. 142,306; May 10; v. 286; p. 405.
- Periodical, Monthly. National Bank of Commerce in New York. No. 146,305; Sept. 6; v. 290; p. 201.
- Periodical, Monthly. National Equipment Company. No. 145,163; July 26; v. 288; p. 815.
- Periodical, Monthly. Philadelphia Operative Builders Association. No. 149,714; Dec. 20.
- Periodical, Monthly. Pressure Proof Piston Ring Company. No. 145,785; Aug. 16; v. 289; p. 597.
- Periodical, Monthly. H. O. Reno Company. No. 144,043; June 21; v. 287; p. 582.
- Periodical, Monthly. L. L. Warren. No. 147,892; Nov. 1.
- Periodical, Monthly. Wesco, Inc. No. 145,859; Aug. 16; v. 289; p. 599.
- Periodical or magazine, Quarterly. Butterick Publishing Company. No. 147,947; Nov. 8.
- Periodical publication, Weekly. Food Trade Publishing Company. No. 139,981; Mar. 1; v. 284; p. 173.
- Periodical published monthly. Atlantic Monthly Company. No. 143,895; June 21; v. 287; p. 577.
- Periodical published semi-annually. Apple Hat Company. No. 144,687; July 19; v. 288; p. 615.
- Periodical published weekly. Labor and Industrial Journal Co. No. 140,866; Mar. 29; v. 284; p. 945.
- Periodical published weekly. Living Age Company. No. 143,993; June 21; v. 287; p. 580.
- Periodical published weekly. Shoe Retailer Company, The. No. 148,260; Nov. 8.
- Periodical, Title for. Retail Credit Men's Natl. Assn. No. 144,455; July 5; v. 288; p. 194.
- Periodical, Weekly. Thoroughbred Record Company. No. 144,070; June 21; v. 287; p. 583.
- Periodicals. J. M. Cattell. No. 145,275; July 26; v. 288; p. 823.
- Periodicals and publications, Weekly. American Lumberman. No. 147,904; Nov. 8.
- Periodicals, Weekly. National Cash Register Company. No. 148,174; Nov. 8.
- Periodicals, Weekly. Starchroom Publishing Company. No. 144,062; June 21; v. 287; p. 582.
- Peroxid of hydrogen. Drevet Mfg. Co. No. 141,348; Apr. 19; v. 285; p. 566.
- Perspiration, Prevention of excessive. L. Miller. No. 142,049; May 3; v. 286; p. 188.
- Petrolatum. Standard Oil Company. No. 143,189; May 24; v. 286; p. 851.
- Petrolatum and petroleum jelly. Clarendon Refining Company. No. 139,273; Feb. 1; v. 283; p. 168.
- Petrolatums, mineral jellies and oils. Sherwood Petroleum Co. No. 150,109; Dec. 27.
- Petroleum and its refined products. Crude. General Oil Company. No. 141,557; Apr. 26; v. 285; p. 779.
- Petroleum, Derivatives of crude. Tide Water Oil Company. Nos. 141,696-702; Apr. 26; v. 285; pp. 783-4.
- Petroleum fuels, Liquid for intensifying, &c. A. W. Almquist. No. 146,940; Sept. 27; v. 290; p. 803.
- Petroleum jelly. Noco Petroleum Company. No. 145,763; Aug. 16; v. 289; p. 596.
- Petroleum products. Associated Oil Company. No. 147,913; Nov. 8.
- Petroleum products. Bigheart Producing & Refining Company. No. 138,776; Jan. 11; v. 282; p. 375.
- Petroleum products. Orific Gasoline Production Company. No. 140,507; Mar. 15; v. 284; p. 585.
- Petroleum products. Standard Oil Company of New York. No. 150,123; Dec. 27.
- Petroleum products. Texas Company. No. 148,947; Nov. 29.
- Petroleum products consisting of gasoline, kerosene, &c. Pierce Oil Corporation. No. 149,201; Dec. 6.
- Petroleum products used as a fuel for automobiles, &c. Sinclair Refining Company. No. 146,871; Sept. 20; v. 290; p. 637.
- Petticoats. J. J. McLoughlin. No. 141,598; Apr. 26; v. 285; p. 781.
- Petticoats. Waters-Weismann Co. No. 140,464; Mar. 15; v. 284; p. 583.
- Petticoats and ladies' bloomers and knickerbockers. D. L. Rosenberg. No. 141,430; Apr. 19; v. 285; p. 568.
- Petticoats, bloomers, corset-covers, &c., Ladies'. Dorfman & Korman. No. 146,212; Sept. 6; v. 290; p. 199.
- Petticoats, skirts, and bloomers. W. H. Rogers Co. Nos. 147,393-4; Oct. 11.
- Petticoats, sweaters, scarfs, &c. D. W. Shoyer & Co. No. 149,235; Dec. 6.
- Pharmaceutical and toilet preparations. H. G. Bitter. No. 146,953; Sept. 27; v. 290; p. 803.
- Pharmaceutical compound. Dermatological Research Laboratories. No. 141,109; Apr. 12; v. 285; p. 380.
- Pharmaceutical preparation. H. O. Berg. No. 141,867; May 3; v. 286; p. 182.
- Pharmaceutical preparation. H. P. Clearwater. No. 147,963; Nov. 8.
- Pharmaceutical preparation. H. McLarty. No. 139,831; Feb. 22; v. 283; p. 753.
- Pharmaceutical preparation. Society of Chemical Industry in Basle. No. 145,817; Aug. 16; v. 289; p. 598.
- Pharmaceutical preparation for remedying colds, rheumatism, &c. A. Segin. No. 139,032; Jan. 18; v. 282; p. 556.
- Pharmaceutical preparation for treatment of tobacco habit. M. H. Swafford. No. 143,188; May 24; v. 286; p. 851.
- Pharmaceutical preparations. R. M. Bramlette. No. 144,988; July 19; v. 288; p. 625.
- Pharmaceutical preparations. E. C. Brelsford. No. 145,615; Aug. 16; v. 289; p. 591.
- Pharmaceutical preparations. H. P. Clearwater. No. 145,501; Aug. 2; v. 289; p. 184.
- Pharmaceutical preparations. J. M. Cochran. No. 140,776; Mar. 29; v. 284; p. 942.
- Pharmaceutical preparations. W. R. Cooper. No. 140,784; Mar. 29; v. 284; p. 943.
- Pharmaceutical preparations. Delson Chemical Co. No. 146,080; Aug. 30; v. 289; p. 1013.
- Pharmaceutical preparations. A. D. Franklin. No. 144,395; July 5; v. 288; p. 193.
- Pharmaceutical preparations. Henry Thayer & Co. No. 138,723; Jan. 4; v. 282; p. 190.
- Pharmaceutical preparations. Henry Thayer & Co. No. 148,948; Nov. 29.
- Pharmaceutical preparations. V. Lima. No. 144,428; July 5; v. 288; p. 194.
- Pharmaceutical preparations. Madison Chemical Company. No. 146,044; Aug. 23; v. 289; p. 793.
- Pharmaceutical preparations. E. E. Malone. No. 142,016; May 3; v. 286; p. 187.
- Pharmaceutical preparations. H. B. Myers. No. 139,839; Feb. 22; v. 283; p. 753.
- Pharmaceutical preparations. C. Pepin. No. 145,991; Aug. 23; v. 289; p. 789.
- Pharmaceutical preparations. San Antonio Drug Co. No. 148,250; Nov. 8.
- Pharmaceutical preparations. Society of Chemical Industry in Basle. Nos. 146,003-4; Aug. 23; v. 289; p. 789.
- Pharmaceutical preparations. L. O. Terhorst. No. 141,248; Apr. 12; v. 285; p. 384.
- Pharmaceutical preparations. Tyson & Co. No. 141,450; Apr. 19; v. 285; p. 569.
- Pharmaceutical preparations. William S. Merrell Company. No. 139,166; Jan. 25; v. 282; p. 734.
- Pharmaceutical product. Chemische Fabrik vormals Sandoz. Nos. 142,955-6; May 24; v. 286; p. 844.
- Phenol glycerin for burns. Darbonnier & Saperstein. No. 147,584; Oct. 25.
- Phonograph accessories, Certain. F. C. Kent Company. Nos. 148,104-5; Nov. 8.
- Phonograph-cabinets and parts thereof, case material. R. L. Buell. No. 142,460; May 17; v. 286; p. 625.



*Alphabetical list of trade-marks—Continued.*

- Phonograph-cabinets and wooden stands and supports for same. Sears, Roebuck and Company. No. 147,685; Oct. 25.
- Phonograph-diaphragms for sound-reproducing machines. O. Ryan. No. 140,957; Mar. 29; v. 284; p. 940.
- Phonograph needles and the like. Cutters for. G. Lid-seen. No. 145,564; Aug. 9; v. 289; p. 408.
- Phonograph-record cleaners. Mezuco Chemical Company. No. 141,170; Apr. 12; v. 285; p. 382.
- Phonograph-record-cleaning attachments and wipers used therewith. J. Runk. No. 148,246; Nov. 8.
- Phonograph record-disks. Talking Photo Corporation. No. 141,693; Apr. 26; v. 285; p. 783.
- Phonograph-records. Brunswick-Balke-Collender Company. No. 139,771; Feb. 22; v. 283; p. 751.
- Phonograph-records. Brunswick-Balke-Collender Company. No. 147,941; Nov. 8.
- Phonograph-records. Emerson Phonograph Company. No. 148,397; Nov. 15.
- Phonograph-records. Funk & Wagnalls Company. No. 144,397; July 5; v. 288; p. 193.
- Phonograph-records. Shapleigh Hardware Company. No. 141,674; Apr. 26; v. 285; p. 783.
- Phonograph-records. Thomas A. Edison, Incorporated. No. 144,383; July 5; v. 288; p. 192.
- Phonograph-records and books therefor. Talking Book Corporation. No. 142,151; May 3; v. 286; p. 191.
- Phonographs. Acme Cabinet Company. No. 146,416; Sept. 6; v. 290; p. 205.
- Phonographs. J. E. Christensen. No. 144,367; July 5; v. 288; p. 192.
- Phonographs. Cirola Phonograph Corporation. No. 146,195; Sept. 6; v. 290; p. 198.
- Phonographs. Cole & Dunas Music Co. No. 141,520; Apr. 26; v. 285; p. 778.
- Phonographs. J. A. Compton. No. 144,310; June 28; v. 287; p. 778.
- Phonographs. Dallas Phonograph Manufacturing Company. No. 141,024; Mar. 29; v. 284; p. 950.
- Phonographs. Davenport Cabinet Works. No. 144,379; July 5; v. 288; p. 192.
- Phonographs. Federal Electric Company. No. 146,460; Sept. 6; v. 290; p. 210.
- Phonographs. Federal Electric Company. No. 147,484; Oct. 18.
- Phonographs. M. F. Fybush. No. 141,906; May 3; v. 286; p. 183.
- Phonographs. General Manufacturing Corporation. No. 139,985; Mar. 1; v. 284; p. 173.
- Phonographs. General Manufacturing Corporation. No. 146,232; Sept. 6; v. 290; p. 199.
- Phonographs. Geo. B. Clark Co. No. 143,304; May 31; v. 286; p. 1048.
- Phonographs. Homestead Phonograph & Violin Manufacturing Company. No. 144,582; July 12; v. 288; p. 424.
- Phonographs. Lakeside Supply Company. No. 149,316; Dec. 6.
- Phonographs. G. Mitchell. No. 141,614; Apr. 26; v. 285; p. 781.
- Phonographs. Perry-Lorenson Phonograph Company. No. 141,299; Apr. 12; v. 285; p. 389.
- Phonographs. Starr Piano Company. No. 140,977; Mar. 29; v. 284; p. 949.
- Phonographs. M. Steigman. No. 147,818; Nov. 1.
- Phonographs and parts therefor, records, and needles. Doherty Phonograph Company, Inc. No. 145,886; Aug. 16; v. 289; p. 601.
- Phonographs and parts thereof. M. L. Goldbert. No. 146,751; Sept. 20; v. 290; p. 633.
- Phonographs and parts thereof. Sphinx Gramophone Motors. No. 139,892; Feb. 22; v. 283; p. 755.
- Phonographs and phonograph-records. Crescent Talking Machine Co. No. 141,104; Apr. 12; v. 285; p. 380.
- Phonographs and phonograph-records, record-albums, &c. New York Recording Laboratories. No. 148,908; Nov. 29.
- Phonographs and records. Starr Piano Company. No. 141,810; Apr. 26; v. 285; p. 793.
- Phonographs, graphophones, and talking-machines. Root & Company. No. 146,136; Aug. 30; v. 289; p. 1015.
- Phonographs, phonograph-record ejectors, and phonograph-record ejectors mounted in cabinets. Southern California Hardware and Manufacturing Company. No. 144,942; July 19; v. 288; p. 623.
- Phonographs, phonograph-records, record-albums, needles, &c. New York Recording Laboratories. No. 144,883; July 19; v. 288; p. 621.
- Phonographs, phonograph records and reproducers, &c. Remington Phonograph Corporation. No. 139,616; Feb. 8; v. 283; p. 353.
- Phonographs, Reproducers and tone-arms for. Fletcher-Wickes Co. No. 149,770; Dec. 20.
- Phonographs, talking-machines, &c. P. J. Higgs. No. 144,415; July 5; v. 288; p. 193.
- Phonographs, talking-machines, and records. Mutual Trading Company. No. 148,489; Nov. 15.
- Phonographic needles. W. H. Bagshaw Co. Nos. 140,742-3; Mar. 29; v. 284; p. 941.
- Phonographic needles. W. H. Bagshaw Co. No. 141,078; Apr. 12; v. 285; p. 379.
- Phonographic needles. W. H. Bagshaw Co. No. 146,684; Sept. 20; v. 290; p. 631.
- Phonographic records. F. Lauter. No. 138,661; Jan. 4; v. 282; p. 188.
- Phonographic sound recording and reproducing machines, &c. Columbia Graphophone Manufacturing Co. No. 144,560; July 12; v. 288; p. 423.
- Photograph-albums. F. A. Toombs & Co. No. 145,017; July 19; v. 288; p. 629.
- Photographs. W. L. Glysson. No. 148,052; Nov. 8.
- Photographs. F. E. Haggvist. No. 148,063; Nov. 8.
- Photographs. C. B. Johnson. No. 148,454; Nov. 15.
- Photographs. W. O. Welch. No. 147,829; Nov. 1.
- Photographs. Vanity Fair Studios Inc. No. 147,066; Sept. 27; v. 290; p. 809.
- Photographs and illustrations. E. M. Rudd. No. 147,397; Oct. 11.
- Photographs, photographic prints, and commercial photographs. Heiser Company. No. 147,328; Oct. 11.
- Photographic and blue-print papers, Unsensitized. Strathmore Paper Company. No. 148,933; Nov. 29.
- Photographic chemical developing compounds. J. D. Lippy, Jr. No. 140,422; Mar. 15; v. 284; p. 582.
- Photographic developers. G. C. Gennert. No. 146,748; Sept. 20; v. 290; p. 633.
- Photographic developers. Johnson & Sons Manufacturing Chemists. No. 145,702; Aug. 16; v. 289; p. 594.
- Photographic dry plates. G. Cramer Dry Plate Company. No. 147,291; Oct. 11.
- Photographic film. Eastman Kodak Company. No. 141,932; May 3; v. 286; p. 184.
- Photographic films. Chastains' Incorporated. No. 143,919; June 21; v. 287; p. 578.
- Photographic machinery, cameras, and motion-picture films. Erbograph Company. No. 145,357; Aug. 2; v. 289; p. 178.
- Photographic, mimeographic, &c., reproductions. Copy-makers Corporation. No. 140,352; Mar. 15; v. 284; p. 580.
- Photographic mounts for holding X-ray films, &c. Comparative X-Ray Company. No. 147,967; Nov. 8.
- Photographic printing, &c., machines, film clips, roll-hangers. Photographic Appliances Corporation. No. 139,604; Feb. 8; v. 283; p. 353.
- Photographic prints. Fleet Photo Service. No. 145,666; Aug. 16; v. 289; p. 593.
- Photographic prints. Howland and Dewey Company. No. 139,819; Feb. 22; v. 283; p. 753.
- Photographic prints. Winstead Photo Finishing Company. No. 143,227; May 24; v. 286; p. 853.
- Photographic prints and enlargements. Kansas City Photographic Supply Company. No. 139,151; Jan. 25; v. 282; p. 734.
- Photolithographic prints. B. L. Makepeace, Incorporated. No. 149,792; Dec. 20.
- Piano actions, Player-. Scott Player Action Co. No. 141,218; Apr. 12; v. 285; p. 383.
- Piano and furniture polish. Thompson-Denton Co. No. 147,523; Oct. 18.
- Piano-benches. Tonk Manufacturing Co. No. 150,142; Dec. 27.
- Piano music-rolls, Player-. Rose Valley Company. No. 141,427; Apr. 19; v. 285; p. 568.
- Piano-player actions. Lindenburg Piano Company. No. 144,831; July 19; v. 288; p. 619.
- Piano-player rolls. I. M. Bloch. No. 147,550; Oct. 25.
- Pianos. Sonora, Inc. No. 140,974; Mar. 29; v. 284; p. 948.
- Pianos. Steinway & Sons. No. 141,687; Apr. 26; v. 285; p. 783.
- Pianos and player-pianos. American Piano Company. No. 144,984; July 19; v. 288; p. 625.
- Pianos and player-pianos. Bjur Bros. Incorporated. No. 148,361; Nov. 15.
- Pianos and player-pianos. Cable Company. Nos. 140,764-5; Mar. 29; v. 284; p. 942.
- Pianos and player-pianos. Cable Company. No. 143,294; May 31; v. 286; p. 1047.
- Pianos and player-pianos. A. B. Chase Piano Co. Nos. 139,501-2; Feb. 8; v. 283; pp. 349-50.
- Pianos and player-pianos. Jackson Piano Co. No. 142,372; May 10; v. 286; p. 408.
- Pianos and player-pianos. Lester Piano Company. No. 143,857; June 14; v. 287; p. 400.
- Pianos and player-pianos. Mansfield Piano Co. No. 144,602; July 12; v. 288; p. 424.
- Pianos and player-pianos. Milton Piano Company. No. 146,540; Sept. 6; v. 290; p. 219.
- Pianos, organs, &c. Marquette Piano Company. No. 144,434; July 5; v. 288; p. 194.
- Pianos, piano-players, and organs. Master Music Company. No. 141,168; Apr. 12; v. 285; p. 382.
- Pianos, Player-. Gulbransen-Dickinson Company. No. 140,038; Mar. 1; v. 284; p. 176.
- Pianos, Player-. Gulbransen-Dickinson Company. Nos. 144,576-7; July 12; v. 287; p. 424.
- Pianos, Player-. Price and Teeple Piano Company. No. 144,451; July 5; v. 288; p. 194.
- Pianos, player pianos, and piano players. Baldwin Company. No. 140,537; Mar. 15; v. 284; p. 587.
- Picture films, Motion-. Ad-O-Gram Film Corporation. No. 140,066; Mar. 8; v. 284; p. 363.
- Picture films, Motion-. American Indian Film Co. No. 146,162; Sept. 6; v. 290; p. 197.
- Picture films, Motion-. Associated First National Pictures. No. 141,028; Mar. 29; v. 284; p. 951.
- Picture films, Motion-. Associated First National Pictures, Inc. No. 144,690; July 19; v. 288; p. 615.



*Alphabetical list of trade-marks—Continued.*

- Picture films, Motion-. W. P. Dorety. No. 141,924; May 3; v. 286; p. 184.
- Picture films, Motion-. C. B. C. Film Sales Corporation. No. 147,203; Oct. 4.
- Picture films, Motion-. C. M. Fraser. No. 143,612; June 7; v. 287; p. 183.
- Picture films, Motion-. Willis & Eckels. No. 139,054; Jan. 18; v. 282; p. 556.
- Picture films, Moving-. Adfilm Company. No. 140,310; Mar. 15; v. 284; p. 579.
- Picture films, Moving-. Bible Films Inc. No. 142,934; May 24; v. 286; p. 843.
- Picture films, Moving-. Peacock Productions, Inc. No. 143,131; May 24; v. 286; p. 850.
- Picture films, Moving-. Special Pictures Corporation. No. 140,439; Mar. 15; v. 284; p. 583.
- Picture films, Moving-. Special Pictures Corporation. No. 140,975; Mar. 29; v. 284; p. 948.
- Picture films, Moving-. R. W. Teed. No. 141,247; Apr. 12; v. 285; p. 384.
- Picture films, Moving-. United Drug Company. No. 142,159; May 3; v. 286; p. 191.
- Picture or sheet mounting devices. A. W. Engel. No. 139,134; Jan. 25; v. 282; p. 733.
- Picture-projecting machine and films therefor, Motion-. Pilgrim Pictures Company. No. 145,439; Aug. 2; v. 289; p. 181.
- Picture-projecting machines and parts thereof, Motion-. Graphoscope Company, The. No. 145,372; Aug. 2; v. 289; p. 179.
- Picture-projecting machines and parts thereof, Motion-. Graphoscope Company. No. 147,488; Oct. 18.
- Picture-projecting machines and parts thereon, Motion-. The Foreign Patents Corporation. No. 142,533; May 17; v. 286; p. 627.
- Picture screens and projectors and parts thereof, Motion-. Glifograph Corporation. No. 139,540; Feb. 8; v. 283; p. 351.
- Picture screens, Motion-. Jacobsson Manufacturing Company. No. 140,276; Mar. 8; v. 284; p. 371.
- Pictures. D. Davidson. No. 146,448; Sept. 6; v. 290; p. 209.
- Pictures, Motion-. Educational Film Corporation of America. No. 147,594; Oct. 25.
- Pictures, Motion-. E. Lysle. No. 146,588; Sept. 13; v. 290; p. 422.
- Pictures, Motion-. Robertson-Cole Company. No. 144,460; July 5; v. 288; p. 195.
- Pictures, Motion-. R. C. Smith. No. 145,224; July 26; v. 288; p. 817.
- Pictures, Motion-. Stoll Film Corporation of America. No. 145,228; July 26; v. 288; p. 817.
- Pie filling, fruit preserves, &c., Mince-. Temtor Corn & Fruit Products Co. No. 148,281; Nov. 8.
- Pie filling, Powdered lemon-. W. H. Simonson. No. 147,443; Oct. 11.
- Pies. Mrs. Allen's Kitchens. No. 149,422; Dec. 13.
- Pies, Meat-. Glasgow Meat Pie Company. No. 148,048; Nov. 8.
- Piece goods. L. Bach. No. 148,633; Nov. 22.
- Piece goods. Bloom Textile Co. No. 140,082; Mar. 8; v. 284; p. 363.
- Piece goods. Leshner, Whitman & Co. Nos. 145,131-2; July 26; v. 288; p. 814.
- Piece goods. J. A. Migel, Inc. No. 141,173; Apr. 12; v. 285; p. 382.
- Piece goods. Southern Export Corporation. No. 140,683; Mar. 22; v. 284; p. 747.
- Piece goods. Weissenbach & Kay. No. 143,509; May 31; v. 286; p. 1054.
- Piece goods and blankets, Certain. North Billerica Co. No. 147,658; Oct. 25.
- Piece goods and dress fabrics. J. A. Migel Inc. No. 139,347; Feb. 1; v. 283; p. 170.
- Piece goods, blankets, and bedding. John V. Farwell Company. No. 148,015; Nov. 8.
- Piece goods, carpets, rugs, &c. United States and South America Corporation. No. 145,473; Aug. 2; v. 289; p. 182.
- Piece goods, Certain. Leshner, Whitman & Co. Nos. 148,132-3; Nov. 8.
- Piece goods for wearing-apparel, upholstery, &c. Seaman's & Cobb Company. No. 146,000; Aug. 23; v. 289; p. 789.
- Piece goods, handkerchiefs, table-cloths, &c. J. H. Walker. Nos. 141,711-12; Apr. 26; v. 285; p. 784.
- Piece goods made with a cotton warp and a filling of wool, &c. Leshner, Whitman & Co. Nos. 143,668-70; June 7; v. 287; p. 185.
- Piece goods—namely, drill. Marshall Field & Company. No. 144,130; June 21; v. 287; p. 588.
- Piece goods—namely, muslin. Marshall Field & Company. No. 147,126; Oct. 4.
- Piece goods of cotton and muslin. E. Heller. No. 148,430; Nov. 15.
- Piece goods of cotton, silk, linen, mixtures of cotton and silk and linen and silk. Jacob Miller Sons & Co. No. 148,594; Nov. 15.
- Piece goods of silk, wool, linen, &c. Bianchini, Férier. No. 142,538; May 17; v. 286; p. 627.
- Piece goods of silk, wool, linen, cotton, &c. Bianchini, Férier. Nos. 139,251-2; Feb. 1; v. 283; p. 167.
- Piece goods of silk, wool, linen, cotton, &c. Bianchini, Férier. No. 148,790; Nov. 29.
- Piece goods, Worsted, woolen, worsted and cotton, and worsted and silk. Louis Walther Manufacturing Company. No. 148,957; Nov. 29.
- Pigment having a combination of purposes. E. M. & F. Waldo. No. 146,397; Sept. 6; v. 290; p. 204.
- Pigment having a combination of purposes. E. M. & F. Waldo. No. 146,399; Sept. 6; v. 290; p. 204.
- Pigments and colors, putty, &c., Certain. Cooper & Cooper. No. 149,364; Dec. 13.
- Pile fabrics in the piece. Salt's Textile Manufacturing Company. No. 145,579; Aug. 9; v. 289; p. 408.
- Pile fabrics with cut, looped, or curled pile of certain named materials, Silk cotton, mohair, &c. A. Hoenigsberger. No. 148,437; Nov. 15.
- Pile remedy. H. E. Diller. No. 143,932; June 21; v. 287; p. 578.
- Pile remedy. A. L. Fitzgerald. No. 138,814; Jan. 11; v. 282; p. 376.
- Pillows. Chas. Emmerich & Co. No. 144,211; June 28; v. 287; p. 774.
- Pillows, cushions, and mattresses, Tufted. Robinson-Rodgers Co. No. 139,379; Feb. 1; v. 283; p. 171.
- Pillows, Sofa-cushions, &c. Sanitary Feather Co. No. 142,390; May 10; v. 286; p. 411.
- Pills for anemia. G. Desmarest. No. 140,792; Mar. 29; v. 284; p. 943.
- Pills for auto-intoxication, bad breath, &c. N. D. Abell. No. 140,726; Mar. 29; v. 284; p. 941.
- Pills for constipation. John Novak Company. No. 139,180; Jan. 25; v. 282; p. 735.
- Pills for constipation and torpid liver. H. C. Jarvis. No. 146,490; Sept. 6; v. 290; p. 214.
- Pills, Laxative. C. E. Cessna. No. 146,965; Sept. 27; v. 290; p. 803.
- Pills, Laxative. J. D. Chipley. No. 141,516; Apr. 26; v. 285; p. 778.
- Pills, Laxative. G. C. Wilson. No. 142,176; May 3; v. 286; p. 192.
- Pills, Liver-. M. Brody. No. 140,760; Mar. 29; v. 284; p. 942.
- Pills, Liver-. Harrington Brothers. No. 141,956; May 3; v. 286; p. 185.
- Pills, Liver-. E. W. Youngken. No. 141,279; Apr. 12; v. 285; p. 385.
- Pills of essence of tar. Soc. Prodotti chimico-farmaceutici A. Bertelli & C. No. 143,177; May 24; v. 286; p. 851.
- Pins for bank and general office use. American Pin Company. No. 144,508; July 5; v. 288; p. 197.
- Pin for men's soft collars, Bar-. John S. Sampson & Son. No. 138,700; Jan. 4; v. 282; p. 189.
- Pins, Safety-. Burnstine and Nachman. No. 143,916; June 21; v. 287; p. 578.
- Pins, Safety-. E. Ehlick. No. 148,004; Nov. 8.
- Pins, Safety-. Lindeke, Warner & Sons. No. 142,290; May 10; v. 286; p. 405.
- Pins, Safety-. New York Merchandise Company. No. 138,683; Jan. 4; v. 282; p. 188.
- Pins, Safety-. New York Merchandise Company. No. 142,070; May 3; v. 286; p. 188.
- Pins, Safety-. Penn Rivet Corporation. No. 143,422; May 31; v. 286; p. 1051.
- Pins, Safety-. F. Rees. No. 145,183; July 26; v. 288; p. 816.
- Pins, Safety-. Sears, Roebuck and Company. No. 142,330; May 10; v. 286; p. 406.
- Pins, safety-pins, hooks and eyes. American Pin Company. No. 147,747; Nov. 1.
- Pins, Toilet-. Penn Rivet Corporation. No. 143,423; May 31; v. 286; p. 1051.
- Pipe and pipe-couplings, Iron and steel. Youngstown Sheet & Tube Company. No. 148,629; Nov. 15.
- Pipe-couplings. Titeflex Metal Hose Corporation. No. 146,379; Sept. 6; v. 290; p. 203.
- Pipe-coverings, roofing-shingles, &c. Stowell Manufacturing Co. No. 138,871; Jan. 11; v. 282; p. 378.
- Pipe-fitting tools. Walworth Manufacturing Company. No. 143,507; May 31; v. 286; p. 1054.
- Pipe fittings and valves. Crane Company. No. 143,927; June 21; v. 287; p. 578.
- Pipe fittings and valves, Steam, water, and gas. Walworth Manufacturing Company. No. 142,346; May 10; v. 286; p. 406.
- Pipe-fittings, Metal. E. M. Dart Mfg. Co. No. 145,063; July 26; v. 288; p. 812.
- Pipe joints or couplings made of iron, steel, brass, or other metals. Standard Union Company. No. 139,400; Feb. 1; v. 283; p. 172.
- Pipe-screwing apparatus and oil-well pulling and cleaning apparatus. Buckeye Traction Ditcher Company. No. 147,942; Nov. 8.
- Pipe-thread and gasket compound. Kimball Company. No. 149,970; Dec. 27.
- Pipe, Wrought-iron. A. M. Byers Company. No. 140,575; Mar. 22; v. 284; p. 744.
- Pipes and cigar and cigarette holders. L. Simon. No. 142,765; May 17; v. 286; p. 634.
- Pipes, cigar and cigarette holders, smokers' articles, Smoking-. Reiss-Premier Pipe Company. No. 149,722; Dec. 20.
- Pipes, cigarette-holders, tobacco-pouches. The House of Willis. No. 138,642; Jan. 4; v. 282; p. 187.
- Pipes or electric conduits to carry electric wires. Steel Duct Company. No. 147,695; Oct. 25.



- Pique in the piece. Jacob Miller Sons & Co. No. 140,637; Mar. 22; v. 284; p. 746.
- Pistols. Auto Ordnance Corporation. No. 140,319; Mar. 15; v. 284; p. 579.
- Pistols. Auto Ordnance Corporation. No. 146,682; Sept. 20; v. 290; p. 631.
- Pistols, rifles, guns, &c. Auto Ordnance Corporation. No. 140,318; Mar. 15; v. 284; p. 579.
- Piston and packing rings. Mohawk Piston Ring Corporation. No. 149,458; Dec. 13.
- Piston-rings. American Hammered Piston Ring Company. No. 144,543; July 12; v. 286; p. 423.
- Piston-rings. Burd High Compression Ring Company. No. 139,065; Jan. 18; v. 282; p. 557.
- Piston-rings. General Utility Company. No. 149,069; Dec. 6.
- Piston-rings. Nilson-Miller Company. No. 145,762; Aug. 16; v. 289; p. 596.
- Piston-rings. No-Leak-O Piston Ring Company. No. 146,656; Sept. 13; v. 290; p. 428.
- Piston-rings. No-Leak-O Piston Ring Company. No. 149,186; Dec. 6.
- Piston-rings. Piston Ring Company. No. 141,046; Mar. 29; v. 284; p. 953.
- Piston-rings. Pressure Proof Piston Ring Company. No. 139,950; Feb. 22; v. 283; p. 760.
- Piston-rings. Pressure Proof Piston Ring Company. No. 143,263; May 24; v. 286; p. 858.
- Piston-rings. Spyrosal Manufacturing Company. No. 150,118; Dec. 27.
- Piston-rings. Ti-Test Ring Company. No. 140,230; Mar. 8; v. 284; p. 368.
- Piston-rings. Victory Hammered Piston Ring Company. No. 141,709; Apr. 26; v. 285; p. 784.
- Piston-rings. United States Hammered Piston Ring Co. No. 139,700; Feb. 8; v. 283; p. 358.
- Piston-rings. Welever Piston Ring Company. No. 146,622; Sept. 13; v. 290; p. 423.
- Piston-rings. Yale Piston Ring Co. No. 139,471; Feb. 1; v. 283; p. 177.
- Piston-rings. Metal. Trione Piston Ring Company. No. 142,340; May 10; v. 286; p. 406.
- Pistons. Dyer Company. No. 144,113; June 21; v. 287; p. 587.
- Pistons. Perfection Auto Parts Company. No. 139,368; Feb. 1; v. 283; p. 171.
- Pitch, rosins, and tar. Pennsylvania Refining Company. No. 142,086; May 3; v. 286; p. 189.
- Placket and snap fasteners. Federal Snap Fastener Corporation. No. 138,615; Jan. 4; v. 282; p. 186.
- Plain and galvanized woven-wire concrete-reinforcement. The American Steel and Wire Company of New Jersey. No. 144,985; July 19; v. 288; p. 625.
- Plaiters. Sears, Roebuck & Company. No. 140,432; Mar. 15; v. 284; p. 582.
- Planes. Stanley Works. No. 147,693; Oct. 25.
- Planers. The Turbine Air Tool Company. No. 148,606; Nov. 15.
- Planimeters. James L. Robertson & Sons. No. 139,096; Jan. 18; v. 282; p. 560.
- Plant food. E. G. Steitz. No. 142,779; May 17; v. 286; p. 634.
- Plant food tablet form. Stim-U-Plant Tablet Co. No. 149,512; Dec. 13.
- Plaster and cement. Building. H. K. Hedges. No. 141,960; May 3; v. 286; p. 185.
- Plaster-board. Waldorf Paper Products Company. No. 144,966; July 19; v. 288; p. 624.
- Plaster for pneumonia, bronchitis, &c. Medicinal. Pneumo Phthysine Chem. Mfg. Co. No. 143,138; May 24; v. 286; p. 850.
- Plasters. Carter Medicine Company. No. 148,640; Nov. 22.
- Plasters and cement. J. D. Caghey. No. 142,197; May 3; v. 286; p. 192.
- Plasters, Corn, bunion, and callous. C. W. Westenfelder. No. 142,171; May 3; v. 286; p. 192.
- Plasters for wounds, &c. Healing. A. Buran. No. 146,699; Sept. 20; v. 290; p. 632.
- Plasters, liquid remedy for corns, callouses, &c. Corn and bunion. Bauer & Black. No. 140,746; Mar. 29; v. 284; p. 941.
- Plastic building materials. Magnesite composition for making. Flexotile Floor Company. No. 141,549; Apr. 26; v. 285; p. 779.
- Plastic rubber material for repairing tires, hose, &c. J. E. Smith. No. 148,264; Nov. 8.
- Plate-powder. Mappin & Webb. No. 144,603; July 12; v. 288; p. 424.
- Play-suits, rompers, children's pants, overalls, &c. Levi Strauss & Co. No. 143,183; May 24; v. 286; p. 851.
- Play-wagons and coasters for children. H. C. White Company. No. 149,287; Dec. 6.
- Pliers. Forged Steel Products Co. of N. J. Nos. 141,355-6; Apr. 19; v. 285; p. 566.
- Pliers. H. H. Smith & Company. No. 144,146; June 21; v. 287; p. 590.
- Pliers. C. E. Swihart. No. 149,255; Dec. 6.
- Pliers. Offset slip-joint. H. D. Smith & Company. No. 143,171; May 24; v. 286; p. 851.
- Plow shares or scrapes. G. P. Dowling Hardware Co. No. 141,927; May 3; v. 286; p. 184.
- Plows and parts thereof. International Harvester Company. No. 140,844; Mar. 29; v. 284; p. 944.
- Plows, cultivators, weeder, &c. The Killefer Manufacturing Company. No. 140,616; Mar. 22; v. 284; p. 745.
- Plows, stalk-cutters, cultivators, &c. S. C. Agricultural Distributing Co. No. 141,435; Apr. 19; v. 285; p. 569.
- Plumbago and parting composition. E. J. Woodson Co. No. 140,307; Mar. 8; v. 284; p. 374.
- Plumbers' supplies, &c. Thomas Maddock's Sons Co. No. 142,794; May 17; v. 286; p. 634.
- Plumbing and steam-fitting supplies. Eagle Brass Foundry Company. No. 145,081; July 26; v. 288; p. 812.
- Plumbing supplies. Whiting-Mead Commercial Co. No. 149,548; Dec. 13.
- Plumbing supplies, Certain. Penn Brass Manufacturing Co. No. 147,511; Oct. 18.
- Pluriglandular formulas for the treatment of various endocrine insufficiencies. H. R. Harrower. No. 148,662; Nov. 22.
- Pluriglandular formulas for treatment of amenorrhea, &c. H. R. Harrower. Nos. 149,099-100; Dec. 6.
- Pneumatic pressure systems for water, &c. Monarch Engineering Company. No. 147,645; Oct. 25.
- Pneumatic tools and compressed-air machinery. Chicago Pneumatic Tool Company. No. 141,737; Apr. 26; v. 285; p. 786.
- Pneumatic tools and compressed-air machinery. Cleveland Pneumatic Tool Company. No. 141,738; Apr. 26; v. 285; p. 786.
- Pneumatic tools—namely, riveting-hammers. Chicago Pneumatic Tool Company. Nos. 149,878-9; Dec. 27.
- Pocketbooks. John Stember & Co. No. 147,520; Oct. 18.
- Pocketbooks, wallets, card-cases, &c. Charles K. Cook, Incorporated. No. 145,638; Aug. 16; v. 289; p. 592.
- Poison for gophers, rats, foxes, &c. National Drug and Chemical Co. of Canada. No. 140,911; Mar. 29; v. 284; p. 947.
- Polish and paste, Nail. R. Brueck. No. 140,762; Mar. 29; v. 284; p. 942.
- Polish, Automobile. Navajo Laboratories. No. 150,025; Dec. 27.
- Polish, Floor. A. S. Boyle. No. 144,101; June 21; v. 287; p. 585.
- Polish for furniture, automobile-bodies, hardwood floors, &c. A. G. Stauffer. No. 139,894; Feb. 22; v. 283; p. 755.
- Polish for furniture, floors, &c. Ceda-Oda Company. No. 147,080; Oct. 4.
- Polish for jewelry, precious stones, cut glass, and chinaware. Evans Chemical Works. No. 139,532; Feb. 8; v. 283; p. 350.
- Polish for painted, varnished, waxed, and similar surfaces. W. T. Rawleigh Company. No. 145,790; Aug. 16; v. 289; p. 597.
- Polish for pianos and automobiles. Dresso Polish Co. No. 147,305; Oct. 11.
- Polish for pianos, phonographs, and furniture. H. Helbig. No. 142,876; May 17; v. 286; p. 639.
- Polish for woodwork, tables, and floors. Alex. D. Shaw & Co. No. 144,929; July 19; v. 288; p. 622.
- Polish, Furniture. Magnesium Products Co. No. 139,574; Feb. 8; v. 283; p. 352.
- Polish, Metal. Noxon Chemical Products Co. No. 145,166; July 26; v. 288; p. 815.
- Polish, Shoe and metal. Sta-Brite Manufacturing Co. No. 139,958; Feb. 22; v. 283; p. 761.
- Polishes. Sta-Brite Manufacturing Co. No. 140,717; Mar. 22; v. 284; p. 751.
- Polishes acting as grease removers and cleaning materials. E. I. du Pont de Nemours & Company. No. 140,112; Mar. 8; v. 284; p. 364.
- Polishes for all kinds of leather articles. Société Anonyme des Produits du Lion Noir. No. 143,474; May 31; v. 286; p. 1053.
- Polishes for automobile-bodies, pianos, furniture, &c. The Hall-Thompson Company. No. 139,809; Feb. 22; v. 283; p. 753.
- Polishes for furniture, &c. Harzee Manufacturing Company. No. 142,559; May 17; v. 286; p. 627.
- Polishing and silver-plating metallic surfaces, Preparation for. D. B. Burns. No. 139,122; Jan. 25; v. 282; p. 733.
- Polishing-buffs. H. Paulson. No. 149,472; Dec. 13.
- Polishing-cloths for gold, &c. L. G. Pearson Corp. No. 149,197; Dec. 6.
- Polishing composition for metal and glass. Eclipse Manufacturing Company. No. 147,846; Nov. 1.
- Polishing compositions. E. Reed Burns Supply Company. No. 148,228; Nov. 8.
- Polishing material—namely, auto-polish. De-Lite Manufacturing Company. No. 145,944; Aug. 23; v. 289; p. 787.
- Polishing materials. O. M. Drake. No. 147,304; Oct. 11.
- Polishing materials. W. J. Reuss. Nos. 147,441-2; Oct. 11.
- Polishing preparation. A. M. McGiff. No. 140,885; Mar. 29; v. 284; p. 946.
- Polishing preparation and a certain paint and varnish oil. L. N. Littauer. No. 148,142; Nov. 8.
- Pomade and treating-oil. Hair. Lecian's. No. 146,114; Aug. 30; v. 289; p. 1014.
- Pomade, Hair. W. T. Knight, Jr. No. 143,991; June 21; v. 287; p. 580.



*Alphabetical list of trade-marks—Continued.*

- Pomade, Hair-. Newbro Manufacturing Company. No. 146,824; Sept. 20; v. 290; p. 636.
- Pomades for the hair. M. Goldstein. No. 145,955; Aug. 23; v. 289; p. 788.
- Pomegranates, Fresh and preserved. Native Son Orchards Co. No. 146,304; Sept. 6; v. 290; p. 201.
- Pongee silk in the piece. F. R. Heinick. No. 145,110; July 26; v. 288; p. 813.
- Popcorn. American Pop Corn Company. Nos. 144,682-3; July 19; v. 288; p. 615.
- Popcorn. International Corn Products Corporation. No. 138,646; Jan. 4; v. 282; p. 187.
- Popcorn. D. Millar. No. 140,171; Mar. 8; v. 284; p. 366.
- Popcorn and nut confectionery. S. R. Mercer. No. 147,011; Sept. 27; v. 290; p. 805.
- Popcorn, Candied. Rueckheim Bros. & Eckstein. No. 144,668; July 12; v. 288; p. 428.
- Popcorn, Shelled. H. A. Kesting. No. 144,821; July 19; v. 288; p. 619.
- Porcelain articles, Electrical. Federal Porcelain Co. No. 141,935; May 3; v. 286; p. 184.
- Porcelain-enamel ware. American Enameled Products Co. No. 147,194; Oct. 4.
- Porcelain for filling teeth, making dental facings, &c. L. D. Caulk Company. No. 149,306; Dec. 6.
- Porcelain used for filling teeth and making dental facings, &c. L. D. Caulk Company. No. 149,758; Dec. 20.
- Pork and beans, beans, and spaghetti. Franco-American Food Company. No. 139,297; Feb. 1; v. 283; p. 169.
- Pork, particularly bacon or strips of pork in bags. Case Provision and Supply Co. No. 144,714; July 19; v. 288; p. 616.
- Portable and other machinery. Black & Decker Manufacturing Co. No. 143,554; June 7; v. 287; p. 181.
- Portable calculating and adding machine. Barrett Adding Machine Company. No. 139,443; Feb. 1; v. 283; p. 174.
- Portfolios. H. H. Geary. No. 148,043; Nov. 8.
- Portraits, sketches, drawings, &c. B. H. Scotford. No. 142,751; May 17; v. 286; p. 633.
- Posters. The Postergraph Company. No. 140,192; Mar. 8; v. 284; p. 366.
- Posters, cards, &c. Benson, Gamble & Slaten. No. 139,115; Jan. 25; v. 282; p. 733.
- Postmarking, mitering, and other machines. Universal Stamping Machine Company. No. 145,199; July 26; v. 288; p. 816.
- Posts, cross-arms, &c. Wooden. Southern Wood Preserving Co. No. 138,710; Jan. 4; v. 282; p. 189.
- Potash, phosphates, and chemical fertilizers. Diamond Potash Company. No. 142,982; May 24; v. 286; p. 845.
- Potassium sulfate. Arthur H. Thomas Company. No. 139,903; Feb. 22; v. 283; p. 755.
- Potato-chips. F. P. Gasser. No. 149,926; Dec. 27.
- Potatoes, (bagged in their natural state.) Monmouth County Farmers Exchange. No. 150,013; Dec. 27.
- Potatoes, Fresh. L. H. Hellmann. No. 143,641; June 7; v. 287; p. 184.
- Potatoes, Fresh. M. J. McIver. No. 146,589; Sept. 13; v. 290; p. 422.
- Potatoes, Fresh. Norfolk Truckers Exchange. No. 149,464; Dec. 13.
- Potatoes, White. John F. Ayres. No. 138,772; Jan. 11; v. 282; p. 375.
- Pots, Coffee and tea. J. A. Howard. No. 141,142; Apr. 12; v. 285; p. 381.
- Pots, pans, kettles, pails, &c. S. Blickman. No. 141,323; Apr. 19; v. 285; p. 565.
- Pottery ware. Marshall Field & Company. No. 149,321; Dec. 6.
- Poultices for infected wounds. B. Koch. No. 148,878; Nov. 29.
- Poultry and game-birds. A. Silz, Inc. No. 140,969; Mar. 29; v. 284; p. 948.
- Poultry and hatching-eggs, Live. Quality Poultry Farm. No. 143,144; May 24; v. 286; p. 850.
- Poultry and smoke houses, Sheet-metal. Wheeling Corrugating Company. No. 145,860; Aug. 16; v. 289; p. 599.
- Poultry compound. J. S. Griffith. No. 145,958; Aug. 23; v. 289; p. 788.
- Poultry-disinfectant. Barker, Moore & Mein Medicine Company. No. 143,787; June 7; v. 287; p. 189.
- Poultry, Dressed. George F. Hinrichs, Inc. No. 148,434; Nov. 15.
- Poultry, Dressed. George F. Hinrichs Inc. No. 148,666; Nov. 22.
- Poultry food. G. F. Givan. No. 149,930; Dec. 27.
- Poultry, Live. M. C. Peters Mill Co. No. 147,013; Sept. 27; v. 290; p. 805.
- Poultry-markers. M. Bayerdorffer. No. 147,919; Nov. 8.
- Poultry medicine. W. T. Hadley. No. 148,425; Nov. 15.
- Poultry medicine. C. H. Weber. No. 145,857; Aug. 16; v. 289; p. 599.
- Powder and deodorant, Foot. F. W. Clark. No. 146,197; Sept. 6; v. 290; p. 198.
- Powder and mouth-lotion, Tooth-. P. M. Wenzel. No. 148,959; Nov. 29.
- Powder and paste, Tooth. F. M. Beaty. No. 141,865; May 3; v. 286; p. 182.
- Powder and rouge compacts. Harriet Hubbard Ayer. Nos. 149,831-3; Dec. 27.
- Powder and rouge, Face-. P. Meyer. No. 149,162; Dec. 6.
- Powder, Baking-. General Chemical Company. No. 143,014; May 24; v. 286; p. 846.
- Powder, Baking-. Globe Grocery Stores. No. 147,101; Oct. 4.
- Powder, Cleaning and washing. W. H. Westmoreland. Nos. 145,482-3; Aug. 2; v. 289; p. 182.
- Powder, cold-cream, &c., Talcum. Weichsel Laboratories. No. 143,768; June 7; v. 287; p. 188.
- Powder, Complexion-. A. J. Dahlheimer. No. 139,783; Feb. 22; v. 283; p. 752.
- Powder, Complexion-. De Free Chemical Company. No. 140,791; Mar. 29; v. 284; p. 943.
- Powder compound soluble in water, in itself non-saponaceous, used in solution as a general cleanser. No. 144,775; July 19; v. 288; p. 618.
- Powder, Face-. Di-Brenle-Mfg. Co. No. 139,288; Feb. 1; v. 283; p. 168.
- Powder, Face-. Mrs. R. Karschnick. No. 140,853; Mar. 29; v. 284; p. 945.
- Powder, Face-. F. Knights. No. 146,792; Sept. 20; v. 290; p. 635.
- Powder, Face-. Magic Beautifier Company. No. 146,806; Sept. 20; v. 290; p. 635.
- Powder, Face-. J. F. Sullivan. No. 146,008; Aug. 23; v. 289; p. 789.
- Powder, Face-. Tremonte Co. No. 149,262; Dec. 6.
- Powder, Face-. Van Antwerp's Drug Corporation. No. 146,054; Aug. 23; v. 289; p. 795.
- Powder, Face-. Dr. J. J. Zamborsky. No. 144,092; June 21; v. 287; p. 583.
- Powder, face-powder, and toilet water, Talcum. Talcum Puff Company. No. 140,991; Mar. 29; v. 284; p. 949.
- Powder, Foot-. L. W. Estilow. No. 143,946; June 21; v. 287; p. 579.
- Powder for making custards and puddings, Cream-. F. Knab. No. 144,825; July 19; v. 288; p. 619.
- Powder for mouth and tooth washes. L. Dreyfus. No. 148,817; Nov. 29.
- Powder, Insect-. Regal Manufacturing Co. No. 150,072; Dec. 27.
- Powder, lip-rouge, eyebrow-pencil, &c., Face-. E. D. Cutino. No. 139,782; Feb. 22; v. 283; p. 752.
- Powder, Liquid face-. E. B. Finlayson. No. 146,090; Aug. 30; v. 289; p. 1014.
- Powder, Medicated toilet. J. M. Lynch. No. 140,166; Mar. 8; v. 284; p. 366.
- Powder-puff. J. J. Cosin. No. 146,639; Sept. 13; v. 290; p. 426.
- Powder-puffs. Bonnie-B Company. No. 149,002; Dec. 6.
- Powder-puffs. Columbia Powder Puff Co. No. 148,643; Nov. 22.
- Powder-puffs. J. J. Cosin. No. 146,447; Sept. 6; v. 290; p. 209.
- Powder, Rice-. Société Anonyme Parfumerie Ramses. No. 140,972; Mar. 29; v. 284; p. 948.
- Powder, rouge, massage-cream, Face-. C. Davis. No. 147,977; Nov. 8.
- Powder, Smokeless sporting. Hercules Powder Company. No. 139,939; Feb. 22; v. 283; p. 759.
- Powder, Talcum. A. F. Babcock Company. No. 145,600; Aug. 16; v. 289; p. 591.
- Powder, Talcum. Barclay & Co. No. 141,317; Apr. 19; v. 285; p. 565.
- Powder, Talcum. Sydney Ross Company. No. 148,716; Nov. 22.
- Powder, Talcum. Talcum Puff Company. No. 143,190; May 24; v. 286; p. 851.
- Powder, Talcum. J. B. Williams Company. No. 148,748; Nov. 22.
- Powder to be used on the feet and armpits. Twill Manufacturing Co. No. 148,285; Nov. 8.
- Powder to soften and perfume water. J. E. Vaughn. No. 140,237; Mar. 8; v. 284; p. 368.
- Powder, Toilet. Andrew Jergens Company. No. 148,676; Nov. 22.
- Powder, Toilet. Eli Lilly & Company. No. 149,910; Dec. 27.
- Powder, Toilet face-. D. Bee. No. 144,344; July 5; v. 288; p. 191.
- Powder, Tooth-. F. W. Clements. No. 147,084; Oct. 4.
- Powder, Whip-. Hirsch Brothers Co. No. 140,399; Mar. 15; v. 284; p. 581.
- Powders and creams and rouge, Face. S. Cohen. No. 143,921; June 21; v. 287; p. 578.
- Powders and creams, face-powder compacts, and perfumes, Face. J. J. Rodriguez. No. 147,022; Sept. 27; v. 290; p. 805.
- Powders and medicines for poultry, Condition-. The Baker, Moore & Mein Medicine Company. No. 139,114; Jan. 25; v. 282; p. 733.
- Powders, Antiseptic. G. Adams. No. 142,911; May 24; v. 286; p. 843.
- Powders, Antiseptic and cooling. Commonwealth Chemical Corporation. No. 138,957; Jan. 18; v. 282; p. 553.
- Powders, Cold-creamed. La Meda Manufacturing Company. No. 148,589; Nov. 15.
- Powders, Complexion, toilet rouge, and talcum. C. S. Welch Company. No. 139,051; Jan. 18; v. 282; p. 556.
- Powders, cough and corn remedies, &c., Headache. W. H. Bristow. No. 140,759; Mar. 29; v. 284; p. 942.
- Powders, Face and toilet. Parfumerie Houbigant. No. 148,668; Nov. 22.
- Powders, Face, talcum, and toilet. V. Vivaudou, Inc. No. 139,704; Feb. 8; v. 283; p. 359.



- Powders, facial cream, &c., Talcum and face. Lady Christabel Company. No. 147,007; Sept. 27; v. 290; p. 805.
- Powders for confectioners' use, flavoring extracts, pie-fillings, syrups for making candies. Henry H. Ottens Mfg. Co., Inc. No. 148,500; Nov. 15.
- Powders, perfume, toilet waters, Face and talcum. Elmo Inc. Nos. 143,326-8; May 31; v. 286; p. 1048.
- Powders, perfumes, and bath-salts. Talcum and face. J. J. Spooner. No. 149,245; Dec. 6.
- Powders, perfumes, hair-tonic, &c., Talc and face. Perfumeria Floralia S. A. No. 148,704; Nov. 22.
- Powders, rouges, &c., Talcum, face, and compact. M. Levy. No. 145,718; Aug. 16; v. 289; p. 595.
- Powders, rouges, &c., Face. Julius Schmid Incorporated. No. 146,140; Aug. 30; v. 289; p. 1015.
- Powders, rouges, lip-sticks, &c., Face. Embee Company. No. 145,950; Aug. 23; v. 289; p. 787.
- Powders, toilet extract, toilet water, &c., Talcum and face. A. P. Babcock Company. No. 146,169; Sept. 6; v. 290; p. 197.
- Powders, toilet waters, perfumes, rouges, sachets, Face and talcum. K. D. Chowdhury. No. 147,436; Oct. 11.
- Powders, Tooth-. E. A. Welters. No. 147,719; Oct. 25.
- Powdered preparation. L. E. Crouse. Nos. 146,640-1; Sept. 13; v. 290; p. 426.
- Precious-metal articles. Tiffany & Company. No. 139,646; Feb. 8; v. 283; p. 354.
- Precious stones. L. Heller & Son. No. 148,431; Nov. 15.
- Precious stones, jewelry, semi-precious and artificial precious stones, &c. H. Weissman. No. 142,169; May 3; v. 286; p. 192.
- Precision instruments, Certain. C. E. Johansson. No. 148,097; Nov. 8.
- Precision-tools for mechanics, Certain. Stanley Works. No. 148,270; Nov. 8.
- Preparation for antiseptic purposes and as a disinfectant and deodorizer. Tyler Chemical Company. No. 140,997; Mar. 29; v. 284; p. 949.
- Preparation for bathing the feet. Specific Remedy Company. No. 138,711; Jan. 4; v. 282; p. 189.
- Preparation for beautifying, &c., the eyelashes and eyebrows. Lashbrow-Laboratories Co. No. 144,425; July 5; v. 288; p. 194.
- Preparation for certain named purposes. King & Williams. No. 146,041; Aug. 23; v. 289; p. 793.
- Preparation for certain named purposes. F. J. Nuccio. No. 144,617; July 12; v. 288; p. 425.
- Preparation for certain purposes. Fairchild Bros. & Foster. No. 147,767; Nov. 1.
- Preparation for certain purposes. Preston Chemical Co. No. 149,605; Dec. 13.
- Preparation for chapped hands, scalds, burns, sunburn. B. Walker. No. 145,923; Aug. 16; v. 289; p. 605.
- Preparation for cleaning and polishing glass. J. L. Truax. No. 139,651; Feb. 8; v. 283; p. 354.
- Preparation for cleaning and polishing varnished surfaces. Cedar Hill Formulae Company. No. 147,953; Nov. 8.
- Preparation for cleaning, brightening, and polishing silver and other metals. Colgate & Company. No. 142,361; May 10; v. 286; p. 407.
- Preparation for cleaning, deodorizing, and disinfecting. T. M. Farmer. No. 148,014; Nov. 8.
- Preparation for cleaning glass. Howard & Scott. No. 142,574; May 17; v. 286; p. 628.
- Preparation for cleaning, shining, and polishing shoes, &c. Herriott Polish Co. No. 147,330; Oct. 11.
- Preparation for colds and la grippe. W. E. Dayton. No. 139,129; Jan. 25; v. 282; p. 733.
- Preparation for colds, coughs, bronchitis, pneumonia, &c. J. Pakos. No. 144,022; June 21; v. 287; p. 581.
- Preparation for coughs, colds, and first stages of consumption. Hegewisch Chemical Works. No. 138,821; Jan. 11; v. 282; p. 376.
- Preparation for coughs, colds, croup, &c. J. W. Duffee Mfg. Co. No. 141,928; May 3; v. 286; p. 184.
- Preparation for dandruff, eczema, &c. W. T. Marshall. No. 145,994; Aug. 23; v. 289; p. 789.
- Preparation for dandruff, itching scalp, and eczema. A. F. Frick. No. 148,032; Nov. 8.
- Preparation for dental-pulp preserving and capping. V. C. Smedley. No. 138,731; Jan. 4; v. 282; p. 190.
- Preparation for destroying parasites and for treating diseases in animals and plants. Thomas Bigg Limited. No. 144,703; July 19; v. 288; p. 615.
- Preparation for diarrhea, cholera morbus, &c., Medicinal. W. L. Haralson. No. 143,973; June 21; v. 287; p. 580.
- Preparation for diseases of the skin, External. C. B. Holy-cross. No. 149,782; Dec. 20.
- Preparation for dressing and cleaning the hair and scalp. E. Galli. No. 139,984; Mar. 1; v. 284; p. 173.
- Preparation for eczema, puritis, acne, &c. Carroll Dunham Smith Homeopathic Pharmacal Co. No. 140,214; Mar. 8; v. 284; p. 367.
- Preparation for gonorrhea and gleet. Resbona Remedies Co. No. 140,195; Mar. 8; v. 284; p. 367.
- Preparation for hardening and improving steel and iron. F. Moras. No. 140,652; Mar. 22; v. 284; p. 746.
- Preparation for increasing the brilliancy and removing the yellowness from white or gray hair. Harriet Hubbard Ayer. No. 149,830; Dec. 27.
- Preparation for inflammation and irritation of the eyes. F. D. Spaulding. No. 146,881; Sept. 20; v. 290; p. 637.
- Preparation for killing flies and lice. J. A. Hand Son Co. No. 148,855; Nov. 29.
- Preparation for medicinal uses. J. H. Watler. No. 140,242; Mar. 8; v. 284; p. 368.
- Preparation for pneumonia, influenza, &c. Mr. & Mrs. Lewis A. Shindley. No. 146,863; Sept. 20; v. 290; p. 637.
- Preparation for poisoning vermin and rodents. B. Heller and Company. No. 144,650; July 12; v. 288; p. 427.
- Preparation for polishing finished surfaces. Du-Rite Products Co. No. 140,664; Dec. 20.
- Preparation for preventing the deposit of moisture on show-windows, windshields. R. B. Messinger. No. 145,416; Aug. 2; v. 289; p. 180.
- Preparation for prevention and relief of coughs, colds, croup, &c. G. W. Crane. No. 138,799; Jan. 11; v. 282; p. 376.
- Preparation for relief of coughs, colds, &c. P. E. Le Sieur. No. 146,280; Sept. 6; v. 290; p. 201.
- Preparation for relief of headache, &c. W. A. Kimbell. No. 149,687; Dec. 20.
- Preparation for relief of local inflammation. Dionol Company. No. 140,365; Mar. 15; v. 284; p. 580.
- Preparation for relief of venereal diseases. A. C. Guzzardo. No. 149,090; Dec. 6.
- Preparation for removal of corns. A. M. Kronberger. No. 149,976; Dec. 27.
- Preparation for removing hair. M. H. Pharmacal Co. No. 146,331; Sept. 6; v. 290; p. 202.
- Preparation for removing old varnish, wax, dirt, grease, &c., Liquid. C. A. Walter. No. 149,746; Dec. 20.
- Preparation for removing rust. Rusticide Company. No. 147,024; Sept. 27; v. 290; p. 805.
- Preparation for repairing leaks in radiators, water-jackets, and connections. Rato Manufacturing Co. No. 140,016; Mar. 1; v. 284; p. 174.
- Preparation for restoring hair to its natural color and removing dandruff. Waldemar Lessmann & Sons. No. 148,885; Nov. 29.
- Preparation for rheumatism. M. Nackley. No. 140,910; Mar. 29; v. 284; p. 946.
- Preparation for scalp diseases. C. H. Scott. No. 145,999; Aug. 23; v. 289; p. 689.
- Preparation for shampooing. B. P. Jennings. No. 143,984; June 21; v. 287; p. 580.
- Preparation for stimulating the growth of hair. Madam S. McAllister. No. 145,735; Aug. 16; v. 289; p. 595.
- Preparation for taking grease and dirt out of leather and woven power-transmission belts, &c. Renovatol Company. No. 145,443; Aug. 2; v. 289; p. 181.
- Preparation for the destruction of ants, roaches, &c. O. & W. Thum Company. No. 141,448; Apr. 19; v. 285; p. 569.
- Preparation for the elimination of worms in cattle. J. D. Thomas. No. 146,378; Sept. 6; v. 290; p. 203.
- Preparation for the scalp. Glover Company. No. 144,574; July 12; v. 288; p. 424.
- Preparation for the treatment of asthma. F. L. Holliday. No. 148,858; Nov. 29.
- Preparation for the treatment of blind staggers in horses, &c. R. C. Philpot. No. 141,640; Apr. 26; v. 285; p. 782.
- Preparation for the treatment of catarrh and colds, Liquid. C. K. Fielder. No. 141,937; May 3; v. 286; p. 184.
- Preparation for the treatment of certain ailments. B. Kite. No. 149,971; Dec. 27.
- Preparation for the treatment of disorders of the stomach and liver. H. Bell. No. 138,775; Jan. 11; v. 282; p. 375.
- Preparation for the treatment of gall-stones. H. M. Murphy. No. 143,102; May 24; v. 286; p. 849.
- Preparation for the treatment of indigestion, &c. Golden Seal Laboratories. No. 138,818; Jan. 11; v. 282; p. 376.
- Preparation for the treatment of insect-bites and stings. W. J. Mears. No. 139,002; Jan. 18; v. 282; p. 555.
- Preparation for the treatment of kinky hair. Zenith Mfg. Co. No. 145,878; Aug. 16; v. 289; p. 600.
- Preparation for the treatment of piles. B. A. Leatherman. No. 146,798; Sept. 20; v. 290; p. 635.
- Preparation for the treatment of pyorrhea. C. W. Archer. No. 141,845; May 3; v. 286; p. 181.
- Preparation for the treatment of rheumatism. Jackson & Stamper. No. 141,441; Apr. 19; v. 285; p. 569.
- Preparation for the treatment of skin. N. L. Thomas. No. 143,873; June 14; v. 287; p. 402.
- Preparation for the treatment of tender feet. G. R. Henderson. No. 139,143; Jan. 25; v. 282; p. 734.
- Preparation for the treatment of the hair and scalp. J. Hauser. No. 138,820; Jan. 11; v. 282; p. 376.
- Preparation for the treatment of the throat and pulmonary disorders. J. de Jesus. No. 141,037; Mar. 29; v. 284; p. 952.
- Preparation for the treatment of tuberculosis, catarrh, &c. Ernst Wine of Tana Manufacturing Co. No. 142,996; May 24; v. 286; p. 845.
- Preparation for tinting the cheeks and a pomade for the hair. J. H. Moore. No. 142,622; May 17; v. 286; p. 629.
- Preparation for treating gasoline, &c., for producing more power in motors using above fuels. F. C. Schussler. No. 145,808; Aug. 16; v. 289; p. 597.
- Preparation for treatment and removal of warts and moles. Miller Manufacturing Company. No. 143,520; May 31; v. 286; p. 1055.



*Alphabetical list of trade-marks—Continued.*

- Preparation for treatment of asthma. C. C. Gouaux. No. 144,403; July 5; v. 288; p. 193.
- Preparation for treatment of bruises, scalds, &c. E. C. DeWitt Co. Inc. No. 145,945; Aug. 23; v. 289; p. 787.
- Preparation for treatment of certain ailments, Liquid. J. H. Kessler. No. 148,107; Nov. 8.
- Preparation for treatment of dandruff and eczema. Towers, Williamson & Tollett. No. 148,745; Nov. 22.
- Preparation for treatment of diseases of the mouth and teeth. R. C. King. No. 148,110; Nov. 8.
- Preparation for treatment of diseases of the throat and lungs. M. A. Sords. No. 146,005; Aug. 23; v. 289; p. 689.
- Preparation for treatment of excessive perspiration of the feet. W. M. Dogen. No. 141,113; Apr. 12; v. 285; p. 380.
- Preparation for treatment of headache, neuralgia, colds, &c. R. B. Napier. No. 143,106; May 24; v. 286; p. 849.
- Preparation for treatment of heaves. C. B. Baker. No. 149,834; Dec. 27.
- Preparation for treatment of kidney, liver, &c., debility. J. Gibbs. No. 143,024; May 24; v. 286; p. 846.
- Preparation for treatment of lumbago and rheumatism. S. Ario. No. 146,065; Aug. 30; v. 289; p. 1013.
- Preparation for treatment of piles. Hindu Chemical Co. No. 145,963; Aug. 23; v. 289; p. 788.
- Preparation for treatment of piles. Poth & Kuehner. No. 148,726; Nov. 22.
- Preparation for treatment of pulmonary diseases. A. Berkowitz. No. 146,689; Sept. 20; v. 290; p. 632.
- Preparation for treatment of pyorrhea. L. D. Caulk Company. No. 147,079; Oct. 4.
- Preparation for treatment of rheumatism. M. J. Ihnat. No. 140,486; Mar. 15; v. 284; p. 584.
- Preparation for treatment of rheumatism. F. Russo. No. 143,154; May 24; v. 286; p. 850.
- Preparation for treatment of skin diseases. Dr. W. Anders. No. 146,680; Sept. 20; v. 290; p. 631.
- Preparation for treatment of skin diseases. J. D'Arcy. No. 142,976; May 24; v. 286; p. 845.
- Preparation for treatment of the gums. Chemical Products Co. No. 146,442; Sept. 6; v. 290; p. 208.
- Preparation for treatment of the scalp and hair. S. Zampini. No. 140,248; Mar. 8; v. 284; p. 368.
- Preparation for treatment of tired feet, rheumatism, and nervous pains. Riveroyl & Guzman Company. No. 147,021; Sept. 27; v. 290; p. 805.
- Preparation for treatment of warts. Homeaid Products Co. No. 149,949; Dec. 27.
- Preparation for tuberculosis. Nuforal Laboratories. Nos. 148,696-8; Nov. 22.
- Preparations for use in digestive disorders. Foster-McClellan Co. No. 146,741; Sept. 20; v. 290; p. 633.
- Preparation for use in producing whipped cream. G. F. Press. No. 141,203; Apr. 12; v. 285; p. 383.
- Preparation for use in promoting the growth of hair, &c. E. H. Lee. No. 138,830; Jan. 11; v. 282; p. 377.
- Preparation for use in tanning hides and leather. Keystone Albumin & Paint Company. No. 148,587; Nov. 15.
- Preparation for use in the treatment of pyorrhea. C. S. Williams. No. 146,020; Aug. 23; v. 289; p. 790.
- Preparation for use in treatment of stomach troubles. Hall & Ruckel. No. 146,993; Sept. 27; v. 290; p. 804.
- Preparation for use when dissolved in water in washing and cleaning. United Soap Products Co. No. 149,530; Dec. 13.
- Preparation for venereal infections. Q. T. Manufacturing Co. No. 148,221; Nov. 8.
- Preparation, Liquid. Baker Chemical Company. No. 146,427; Sept. 6; v. 290; p. 207.
- Preparation of an oily nature for treating textile fabrics. E. F. Houghton & Co. No. 146,998; Sept. 27; v. 290; p. 804.
- Preparation of the casein of milk. Mead Johnson & Co. No. 149,683; Dec. 20.
- Preparation to drive away mosquitos, &c. Brezal, Inc. No. 140,085; Mar. 8; v. 284; p. 363.
- Preparation to facilitate the separation of the mold and cast. J. B. Jones. No. 145,970; Aug. 23; v. 289; p. 788.
- Preparation to prevent deposit of moisture on glass. G. W. Conard & Company. No. 147,286; Oct. 11.
- Preparation to prevent perspiration. S. S. Pierce Co. No. 145,779; Aug. 16; v. 289; p. 596.
- Preparation to prevent tires from sticking to molds. Western Vulcanizer Manufacturing Company. No. 144,153; June 21; v. 287; p. 590.
- Preparation to promote the growth of hair. C. Bufford. No. 140,763; Mar. 29; v. 284; p. 942.
- Preparation to remove corns, bunions, and callouses. J. A. Solled. No. 142,140; May 3; v. 286; p. 191.
- Preparation used as a hair-tonic. A. P. Avila. No. 142,924; May 24; v. 286; p. 843.
- Preparation used as a polish and as a cleanser. Ultra Refined Crude Products Company. No. 149,270; Dec. 6.
- Preparation useful in general debility, coughs, &c. R. W. Moore. No. 149,323; Dec. 6.
- Preparation which beautifies the hair and aids its growth. E. G. Price. No. 143,139; May 24; v. 286; p. 850.
- Preparations. J. Boutsellis. No. 147,935; Nov. 8.
- Preparations containing the active principle of suprarenal gland. Parke, Davis & Company. No. 140,512; Mar. 15; v. 284; p. 585.
- Preparations for certain diseases. Winthrop Chemical Company. No. 150,182; Dec. 27.
- Preparations for medicinal purposes. Druggists' Wholesale Supply Corporation. No. 145,652; Aug. 16; v. 289; p. 393.
- Preparations for the hair. Madam M. G. Clarke. No. 149,568; Dec. 13.
- Preparations for the treatment of boils, burns, wounds, &c. S. Pozmantier. No. 145,784; Aug. 16; v. 289; p. 597.
- Preparations for the treatment of indigestion. P. Cohen. No. 115,634; Aug. 16; v. 289; p. 592.
- Preparations, Toilet. Boyd-Haynes Corp. No. 141,088; Apr. 12; v. 285; p. 379.
- Preservative and polish for automobile-bodies, pianos, &c. C. A. Mundon. No. 147,648; Oct. 25.
- Preserved fruits, jams, jellies, pickles, &c., Certain. E. Kurzmann. No. 149,981; Dec. 27.
- Preserves. Adams & Mitchell. No. 141,825; May 3; v. 286; p. 181.
- Preserves and jams, Fruit. Temtor Corn & Fruit Products Co. No. 147,174; Oct. 4.
- Presses. V. D. Anderson Company. No. 144,097; June 21; v. 287; p. 585.
- Presses and automatic drop-lifters, Drop-. Birmingham Iron Foundry. No. 149,844; Dec. 27.
- Pressing appliances, Clothes-. F. A. Patrick & Co. No. 139,184; Jan. 25; v. 282; p. 735.
- Preventive for venereal diseases. E. J. Moore Sons. No. 144,206; June 28; v. 287; p. 774.
- Price-lists and catalogues, Annual and periodical. F. Tausend. No. 144,539; July 5; v. 288; p. 200.
- Prime summer yellow refined deodorized cotton-seed oil. International Vegetable Oil Company. No. 149,414; Dec. 13.
- Prime summer white refined deodorized cotton-seed oil. International Vegetable Oil Company. No. 149,415; Dec. 13.
- Printed and engraved matter. W. F. Roberts Company. No. 149,217; Dec. 6.
- Printed and woven piece fabrics and cotton piece textiles. Convertex Corporation. No. 147,969; Nov. 8.
- Printed forms, instruction-blanks, and account-books, Partially-. Kessol Account Book Company. No. 143,064; May 24; v. 286; p. 847.
- Printed pamphlets, circulars, and books. Community Service (Incorporated). No. 145,548; Aug. 9; v. 289; p. 407.
- Printers' blankets. Crocker-McElwain Company. No. 145,642; Aug. 16; v. 289; p. 592.
- Printers' machinery. Miller Saw-Trimmer Company. No. 139,349; Feb. 1; v. 283; p. 170.
- Printing equipment, Cleaner for removing dry and wet ink from. Print Aid Company. No. 150,205; Dec. 27.
- Printing-machines and parts thereof. American Multi-graph Sales Company. No. 146,163; Sept. 6; v. 290; p. 197.
- Printing-plates ready for printing. International Printing Plate Co. No. 143,372; May 31; v. 286; p. 1050.
- Printing-presses, Grippers for use on. Casper Gripper Co. No. 143,300; May 31; v. 286; p. 1048.
- Printing-presses, &c., Rotary. Duplex Printing Press Co. No. 142,866; May 17; v. 286; p. 638.
- Prints and illustrations. H. K. McCann Company. No. 138,998; Jan. 18; v. 282; p. 555.
- Prints and illustrations. C. B. Richard & Company. No. 140,018; Mar. 1; v. 284; p. 174.
- Prints and publications. Shapiro, Bernstein & Co. No. 140,434; Mar. 15; v. 284; p. 582.
- Prints, photographs, drawings. L. P. Abell. No. 140,309; Mar. 15; v. 284; p. 579.
- Prophylactic and iodine preparations. Menley & James. No. 142,021; May 3; v. 286; p. 187.
- Protein substance. C. Brooks. No. 138,780; Jan. 11; v. 282; p. 375.
- Publication. Wichita Motors Company. No. 141,271; Apr. 12; v. 285; p. 385.
- Publication. William Macbeth, Inc. No. 142,600; May 17; v. 286; p. 629.
- Publication at present issued quarterly. Threshermen's Review Company. No. 144,952; July 19; v. 288; p. 623.
- Publication blank. E. W. Wilson. No. 143,840; June 7; v. 287; p. 194.
- Publication, Daily. Direct News Service. No. 145,073; July 26; v. 288; p. 812.
- Publication issued about semi-annually. Bessie Damsey, Inc. No. 147,295; Oct. 11.
- Publication, Monthly. E. R. Allured. No. 145,212; July 26; v. 288; p. 817.
- Publication, Monthly. American Society of Agricultural Engineers. No. 143,890; June 21; v. 287; p. 577.
- Publication, Monthly. Architectural Review. No. 140,315; Mar. 15; v. 284; p. 579.
- Publication, Monthly. Barnes-Ross Company. No. 147,543; Oct. 25.
- Publication, Monthly. California-Oregon Power Co. No. 142,246; May 10; v. 286; p. 403.
- Publication, Monthly. Chicago Athletic Association. No. 144,719; July 19; v. 288; p. 616.
- Publications, Monthly. A. M. Collins Manufacturing Company. No. 144,726; July 19; v. 288; p. 616.



*Alphabetical list of trade-marks—Continued.*

- Publication, Monthly. El Comercio Publishing Corporation. No. 145,657; Aug. 16; v. 289; p. 593.
- Publication, Monthly. El Comercio Publishing Company. No. 148,006; Nov. 8.
- Publication, Monthly. Electrical Trade Publishing Company. No. 140,115; Mar. 8; v. 284; p. 364.
- Publication, Monthly. Experimenter Publishing Co. No. 140,120; Mar. 8; v. 284; p. 364.
- Publication, Monthly. Experimenter Publishing Co. No. 143,947; June 21; v. 287; p. 579.
- Publication, Monthly. Glass Industry Publishing Co. No. 142,269; May 10; v. 286; p. 404.
- Publication, Monthly. Line-A-Time Mfg. Co. No. 143,072; May 24; v. 286; p. 848.
- Publication, Monthly. W. E. McCaslin. No. 143,678; June 7; v. 287; p. 185.
- Publication, Monthly. Motor Truck Publishing Company. No. 140,653; Mar. 22; v. 284; p. 746.
- Publication, Monthly. Motorcraft Publishing Company. No. 144,011; June 21; v. 287; p. 581.
- Publication, Monthly. National Association of Credit Men. No. 144,615; July 12; v. 288; p. 425.
- Publication, Monthly. Pels-Jones. No. 148,208; Nov. 8.
- Publication, Monthly. Perfumer Publishing Company. No. 143,713; June 7; v. 287; p. 186.
- Publication, Monthly. Schoellkopf Company. No. 142,328; May 10; v. 286; p. 406.
- Publication, Monthly. S. S. White Dental Manufacturing Company. No. 145,861; Aug. 16; v. 289; p. 599.
- Publication, Monthly. W. W. White. No. 139,664; Feb. 8; v. 283; p. 355.
- Publication, Monthly and periodical. Crane & Breed Manufacturing Company. No. 143,579; June 7; v. 287; p. 182.
- Publication, Monthly periodical. Farm Publishing Company. No. 149,048; Dec. 6.
- Publication, Monthly technical. Penton Publishing Company. No. 143,427; May 31; v. 286; p. 1051.
- Publication, Periodical. International Motor Co. No. 140,149; Mar. 8; v. 284; p. 365.
- Publication, Periodical. McGraw-Hill Company. No. 147,636; Oct. 25.
- Publication published monthly. California State Automobile Association. No. 147,561; Oct. 25.
- Publication, Semiannual. J. A. Vogelmann. No. 145,587; Aug. 9; v. 289; p. 408.
- Publication, title. Hendler Creamery Company. No. 149,942; Dec. 27.
- Publication, Trade. Edward Katzinger Company. No. 143,986; June 21; v. 287; p. 580.
- Publication, Trade. The Prest-O-Lite Company Inc. No. 141,204; Apr. 12; v. 285; p. 383.
- Publication, Trade. Retail Millinery Association of America. No. 148,231; Nov. 8.
- Publication, Weekly. Bragdon, Lord & Nagle Co. No. 140,333; Mar. 15; v. 284; p. 579.
- Publication, Weekly. B. I. Butler. No. 142,244; May 10; v. 286; p. 403.
- Publication, Weekly. F. J. Campbell. No. 141,884; May 3; v. 286; p. 183.
- Publication, Weekly. Cole Publishing Company. No. 149,016; Dec. 6.
- Publication, Weekly. W. H. Hendricks. No. 147,329; Oct. 11.
- Publication, Weekly. Raynor, Nicholas & Truesdell. No. 145,792; Aug. 16; v. 289; p. 597.
- Publication, Weekly insurance. G. W. Wadsworth. No. 144,080; June 21; v. 287; p. 583.
- Publications. Credit Clearing House. No. 140,786; Mar. 29; v. 284; p. 943.
- Publications. Funk & Wagnalls Company. No. 143,009; May 24; v. 286; p. 846.
- Publications. Malone & Hyde. No. 149,155; Dec. 6.
- Publications. H. E. Millikin. No. 148,903; Nov. 29.
- Publications. Traffic Publishing Company. No. 145,238; July 26; v. 288; p. 817.
- Publications, booklets, &c., Periodical. Gardiner, Ferry & Gray. No. 140,127; Mar. 8; v. 284; p. 364.
- Publications issued monthly. Armstrong Cork Co. No. 145,535; Aug. 9; v. 289; p. 407.
- Publications, magazines, periodicals, and supplements thereto. Printed. United Business Service Company. No. 149,271; Dec. 6.
- Publications, Monthly. American Wholesale Corporation. Nos. 140,254-5; Mar. 8; v. 284; p. 369.
- Publications, Monthly. California Cotton Mills Company. No. 149,008; Dec. 6.
- Publications, Monthly. A. M. Collins Manufacturing Company. No. 149,653; Dec. 20.
- Publications, Monthly. Interstate Employment System. No. 143,054; May 24; v. 286; p. 847.
- Publications, Monthly. Kirschenbaum Corporation. No. 145,708; Aug. 16; v. 289; p. 594.
- Publications, Monthly. Pitchfork Company. No. 145,780; Aug. 16; v. 289; p. 596.
- Publications, Monthly. W. C. Wheeler. No. 145,484; Aug. 2; v. 289; p. 182.
- Publications, Periodical Monthly. Cleveland and Tractor Company. No. 141,095; Apr. 12; v. 285; p. 380.
- Publications, Printed. Blake & Amber. No. 147,929; Nov. 8.
- Pudding, Chocolate dessert. A. E. Schlichting. No. 141,434; Apr. 19; v. 285; p. 569.
- Puddings and desserts. Sterling Pure Food Co. No. 141,442; Apr. 19; v. 285; p. 569.
- Puddings and pie-fillings. C. T. Whittier. No. 145,488; Aug. 2; v. 289; p. 182.
- Puddings, Chocolate and vanilla corn-starch. Rath Manufacturing Company. No. 143,721; June 7; v. 287; p. 186.
- Pulleys for window-sash cord. Dillon Pulley Company. No. 140,035; Mar. 1; v. 284; p. 176.
- Pulleys, Steel. Dodge Sales & Engineering Co. No. 145,074; July 26; v. 288; p. 812.
- Pulp and cellulose, Wood. Anth. B. Nilsen & Co. Nos. 140,660-1; Mar. 22; v. 284; p. 746.
- Pulverizing machinery and parts thereof. Aero Pulverizer Company. No. 141,467; Apr. 26; v. 285; p. 777.
- Pumice bricks, Artificial. Alpha-Lux Company. No. 144,679; July 19; v. 288; p. 615.
- Pumice, whale-oil soap, metal-polish, &c. San Antonio Drug Co. No. 144,271; June 28; v. 287; p. 776.
- Pump-valves. Stewart R. Browne Mfg. Co. No. 142,148; May 3; v. 286; p. 191.
- Pumps. A. S. Cameron Steam Pump Works. No. 140,766; Mar. 29; v. 284; p. 942.
- Pumps. Geo. D. Roper Corporation. No. 140,198; Mar. 8; v. 284; p. 367.
- Pumps and compressors and other machinery. Air. Black & Decker Manufacturing Co. No. 140,698; Mar. 22; v. 284; p. 749.
- Pumps and parts thereof. Geo. D. Roper Corporation. No. 150,084; Dec. 27.
- Pumps and parts thereof, Hydraulic. Ashwell & Nesbit. No. 141,847; May 3; v. 286; p. 182.
- Pumps and pumping apparatus, Liquid. Edson Manufacturing Co. No. 144,115; June 21; v. 287; p. 587.
- Pumps and pumping plants and parts thereof. Monarch Foundry Company. No. 142,055; May 3; v. 286; p. 188.
- Pumps, drag-saws, &c. Mill and Mine Supply Co. No. 149,454; Dec. 13.
- Pumps, Indicators for liquid-dispensing. C. S. Ayres. No. 142,925; May 24; v. 286; p. 843.
- Pumps, Indicators for liquid-dispensing. C. S. Ayres. No. 143,545; June 7; v. 287; p. 181.
- Pumps, Machine. Hodgson Pump Company. No. 148,436; Nov. 15.
- Pumps, paint and water spraying devices, blowers, air compressors. Anthony Company. No. 149,562; Dec. 13.
- Pumps, Power-driven water-supply. Goulds Manufacturing Company. No. 145,371; Aug. 2; v. 289; p. 179.
- Pumps, Steam. A. S. Cameron Steam Pump Works. No. 141,331; Apr. 19; v. 285; p. 565.
- Pumps, valves, &c., Oil-well. Northrup Equipment Company. No. 149,188; Dec. 6.
- Pumps, working heads. F. E. Myers & Bro. No. 147,239; Oct. 4.
- Purgative, Liquid. American Scientific Laboratory. No. 148,753; Nov. 22.
- Purifying the air in rooms, Metal dishes for disseminating vapors for. L. Gudeman. No. 144,789; July 19; v. 288; p. 618.
- Purses and pocketbooks. Cartier, Inc. No. 149,870; Dec. 27.
- Pus and bed pans, douche-pan, &c., White-enamel. United Drug Company. No. 148,552; Nov. 15.
- Puttees. Cal Hirsch & Sons Mercantile Co. No. 149,109; Dec. 6.
- Puttees of leather and canvas. I. Salmonson. No. 147,399; Oct. 11.
- Puttees, Spiral. Lockhart Spiral Service Leggings, Inc. No. 144,834; July 19; v. 288; p. 619.
- Putties, Bituminous. Standard Asphalt & Refining Company. No. 149,509; Dec. 13.
- Putty. Liberty Paint Co. No. 149,695; Dec. 20.
- Puzzles. W. L. Ferris. No. 149,381; Dec. 13.
- Pyrometers. Brown Instrument Company. No. 143,236; May 24; v. 286; p. 855.
- Pyrometers and certain indicating and recording instruments. Uehling Instrument Co. No. 149,529; Dec. 13.
- Pyrophoric igniting device. Welsbach Company. No. 147,718; Oct. 25.
- Pyrotechnic display, Chemical compounds for. W. D. Kemp. No. 139,335; Feb. 1; v. 283; p. 170.
- Pyroxyl in sheet, tubular, and rod form. Fiberloid Corporation. No. 140,802; Mar. 29; v. 284; p. 943.
- Quilts, sheets, pillow-cases. T. B. Draper. No. 144,748; July 19; v. 288; p. 617.
- Quinin, Chocolate syrup of. William S. Merrell Company. No. 142,027; May 3; v. 286; p. 187.
- Rabbit, Jellyed. Arthur J. Billin & Co. No. 143,287; May 31; v. 286; p. 1047.
- Racks and trays. Fuller Brush Company. No. 143,340; May 31; v. 286; p. 1049.
- Radiator caps, Automobile. C. M. Grey Mfg. Co. No. 149,087; Dec. 6.
- Radiator compounds. Marshall Oil Company of Iowa. No. 148,765; Nov. 22.
- Radiator shutters. Automobile. Pines Manufacturing Company. No. 143,868; June 14; v. 287; p. 401.
- Radiators and heaters, Gas. American Gas Appliance Company. No. 139,237; Feb. 1; v. 283; p. 167.
- Radiators and structural radiator parts, Automobile. Binkley Company. No. 141,084; Apr. 12; v. 285; p. 379.



*Alphabetical list of trade-marks—Continued.*

- Radiators, Automobile. Curran-Detroit Radiator Company. No. 143,795; June 7; v. 287; p. 190.
- Radiators, Automobile. Ohio Expert Auto Radiator Company. No. 147,661; Oct. 25.
- Radiators, Automobile. Perfex Radiator Company. No. 148,703; Nov. 22.
- Radiators, Electric heating. Simplex Electrical Heating Company. No. 145,458; Aug. 2; v. 289; p. 181.
- Radiators, fenders, &c., for automobiles, motor-trucks, and tractors. Shotwell Johnson Co. No. 146,780; Sept. 20; v. 290; p. 634.
- Radiators for motor-vehicles. McCord Manufacturing Company. No. 140,711; Mar. 22; v. 284; p. 750.
- Radiators from freezing. Composition used to keep water in automobile. American Autoblood Company. No. 142,883; June 21; v. 287; p. 577.
- Radiators, Steam and hot-water. American Radiator Company. No. 140,546; Mar. 22; v. 284; p. 743.
- Rafts. Martin Olsson & Sons. No. 138,686; Jan. 4; v. 282; p. 189.
- Raincoats. Kinzie Rubber & Manufacturing Co. No. 146,493; Sept. 6; v. 290; p. 214.
- Raincoats. C. B. Shane Co. No. 142,758; May 17; v. 286; p. 633.
- Raincoats. C. B. Shane Co. No. 147,402; Oct. 11.
- Raincoats. H. Rosenberg. No. 148,526; Nov. 15.
- Raincoats and men's overcoats and suits. Western Textile Co. No. 147,431; Oct. 11.
- Raincoats, Ladies'. Heaton's (Leeds,) Ltd. No. 149,103; Dec. 6.
- Raincoats, waterproof overalls and jumpers, leggings. Dickson Raincoat Co. No. 147,453; Oct. 18.
- Ranges and heating-stoves. Early Foundry Co. No. 141,742; Apr. 26; v. 285; p. 787.
- Ranges and oil-stoves, Coal and wood and gas. American Stove Company. No. 150,025; Mar. 1; v. 284; p. 175.
- Ranges and washing machines. Electrical. Wabash Valley Electric Co. No. 145,475; Aug. 2; v. 289; p. 182.
- Ranges, Gas and coal. Mascot Stove Manufacturing Co. No. 149,450; Dec. 13.
- Ranges, gas-ranges, and oil-stoves, Coal and wood. American Stove Company. No. 139,734; Feb. 15; v. 283; p. 543.
- Raw or partly-prepared materials. Chandless & Co. No. 145,625; Aug. 16; v. 289; p. 592.
- Razor-blade holders, Safety-. B. Carlisle. No. 142,953; May 24; v. 286; p. 844.
- Razor-blades, safety-razors, safety-razor handles. C. L. Merz. No. 147,359; Oct. 11.
- Razor-strop dressing. Need-No-Hone Company. No. 142,218; May 3; v. 286; p. 192.
- Razor-strops. Illinois Razor Strop Company. Nos. 141,143-4; Apr. 12; v. 285; p. 381.
- Razor-strops. Illinois Razor Strop Company. No. 149,116; Dec. 6.
- Razor-strops. Simmons Hardware Company. No. 144,936; July 19; v. 288; p. 623.
- Razor strops and hones. Cattaraugus Cutlery Co. No. 139,500; Feb. 8; v. 283; p. 349.
- Razor-strops, Mechanical. Rhodes Manufacturing Company. No. 141,423; Apr. 19; v. 285; p. 568.
- Razor-stoppers, Mechanical. Howard Specialties Company. No. 146,257; Sept. 6; v. 290; p. 200.
- Razors. John Engstrom, Jr., Co. No. 149,914; Dec. 27.
- Razors. Manufacturing Dealers Company. No. 146,590; Sept. 13; v. 290; p. 422.
- Razors. E. Morris. No. 142,625; May 17; v. 286; p. 629.
- Razors. E. Morris. No. 145,161; July 26; v. 288; p. 815.
- Razors. Pike Manufacturing Company. No. 148,212; Nov. 8.
- Razors. Southern & Richardson. No. 140,059; Mar. 1; v. 284; p. 178.
- Razors. Wester Bros. No. 149,546; Dec. 13.
- Razors and hair-trimmers, Safety-. Howard Specialties Company. No. 145,116; July 26; v. 288; p. 814.
- Razors and pocket-knives. United Drug Company. No. 143,762; June 7; v. 287; p. 188.
- Razors and razor-blades. A. C. Penn, Incorporated. Nos. 141,796-7; Apr. 26; v. 285; p. 792.
- Razors and safety-razor blades. S. Isaacs. No. 142,281; May 10; v. 286; p. 404.
- Razors, Safety-. Bestyet Razor Co. No. 141,320; Apr. 19; v. 285; p. 565.
- Razors, Safety-. Enders Sales Company. No. 148,009; Nov. 8.
- Razors, Safety-. Gillette Safety Razor Company. No. 139,303; Feb. 1; v. 283; p. 169.
- Razors, Safety-razors, pocket-knives, &c. P. Smith. No. 142,136; May 3; v. 286; p. 191.
- Razors, scissors, and hair-clippers. Alexis Witte Cutlery Co. No. 144,089; June 21; v. 287; p. 583.
- Razors, scissors, and sprayers. San Antonio Drug Co. No. 147,400; Oct. 11.
- Reamers. Cleveland Twist Drill Co. No. 144,106; June 21; v. 287; p. 586.
- Reamers. McCrosky Tool Corporation. No. 142,598; May 17; v. 286; p. 629.
- Reamers, taps, dies, and milling-cutters. Keystone Reamer & Tool Company. No. 141,991; May 3; v. 286; p. 186.
- Receptacles. The Cronkrite Co. No. 141,912; May 3; v. 286; p. 184.
- Receptacles. Davis Can-Server Corporation. No. 140,102; Mar. 8; v. 284; p. 364.
- Receptacles. Fiberloid Corporation. No. 142,525; May 17; v. 286; p. 626.
- Receptacles. Harper and McIntire Company. No. 140,396; Mar. 15; v. 284; p. 581.
- Receptacles. I. B. Kleibert Rubber Company. Nos. 139,152-3; Jan. 25; v. 282; p. 734.
- Receptacles. The Priscilla Company. No. 139,609; Feb. 8; v. 283; p. 353.
- Receptacles. U. S. Plastic Art Works. No. 143,201; May 24; v. 286; p. 852.
- Receptacles and mountings for same. Boyle Manufacturing Company. No. 145,499; Aug. 2; v. 289; p. 183.
- Receptacles made of a combination of paper-pulp and other ingredients. C. A. Sawyer. No. 142,120; May 3; v. 286; p. 190.
- Record-book. Motor-Log. No. 144,868; July 19; v. 288; p. 620.
- Rectifiers for alternating currents. St. Louis Electrical Works. No. 147,521; Oct. 18.
- Reflectors for electric signs, Glass. Radio Bulb Company. No. 142,719; May 17; v. 286; p. 632.
- Refractory cement for high temperature uses. Laclede-Christy Products Company. No. 143,067; May 24; v. 286; p. 848.
- Refrigerating and ice-making machines. Brunswick Refrigerating Company. No. 146,435; Sept. 6; v. 290; p. 208.
- Refrigerating apparatus. Kelvinator Corporation. No. 142,652; May 17; v. 286; p. 630.
- Refrigerating-machines. J. Ellmauer. No. 142,514; May 17; v. 286; p. 626.
- Refrigerators. Alaska Refrigerator Company. No. 142,408; May 17; v. 286; p. 623.
- Refrigerators. P. R. Rincones, Jr., Company. No. 142,731; May 17; v. 286; p. 633.
- Refrigerators and cooling rooms. Northey Manufacturing Company. No. 143,416; May 31; v. 286; p. 1051.
- Registers, Autographic. Standard Register Company. Nos. 140,060-1; Mar. 1; v. 284; p. 178.
- Reins, Collapsible. H. Schaechterle. No. 148,340; Nov. 8.
- Reinners, beltings, packings, patches, hose, &c. Federal Rubber Company. No. 140,382; Mar. 15; v. 284; p. 581.
- Reinners, tire-sleeves. Federal Rubber Company. Nos. 146,570-1; Sept. 13; v. 290; p. 421.
- Relish consisting of minced olives mixed with tomato sauce, spice, and condiments. Albers Olive Company. No. 139,965; Mar. 1; v. 284; p. 173.
- Remedies, Colic and distemper. O. D. Campbell. No. 141,090; Apr. 12; v. 285; p. 379.
- Remedies, Eye. Murine Eye Remedy Company. Nos. 140,494-5; Mar. 15; v. 284; p. 584.
- Remedies for coughs, colds, and la grippe. Lind Drug Co. No. 138,991; Jan. 18; v. 282; p. 555.
- Remedies for indigestion. Valtely Laboratories. No. 147,181; Oct. 4.
- Remedies for diseases of the throat, nasal organs, and lungs. Ulrici Medicine Co. No. 148,951; Nov. 29.
- Remedies, Poultry. F. & F. Poultry Remedy Co. No. 147,094; Oct. 4.
- Remedy against syphilis, sleeping-sickness, &c. H. A. Metz Laboratories. No. 145,742; Aug. 16; v. 289; p. 595.
- Remedy, Antipyretic. Confectionery Ingredients, Limited. No. 142,968; May 24; v. 286; p. 845.
- Remedy, Cough. H. Erb. No. 144,224; June 28; v. 287; p. 775.
- Remedy, Fat-reducing. Rite-Wate Medicine Co. No. 147,153; Oct. 4.
- Remedy for boils, carbuncles, &c. R. S. Platt. No. 142,093; May 3; v. 286; p. 189.
- Remedy for catarrh. T. Woodward. No. 138,748; Jan. 4; v. 282; p. 190.
- Remedy for certain ailments. Geo. C. Cook & Co. No. 145,639; Aug. 16; v. 289; p. 592.
- Remedy for colds and malaria. Laxative. Taylor Drug Co. No. 139,699; Feb. 8; v. 283; p. 358.
- Remedy for congested liver, constipation, and corpulency. H. A. Fenner. No. 145,662; Aug. 16; v. 289; p. 593.
- Remedy for constipation. S. Drain, M. D. No. 146,983; Sept. 27; v. 290; p. 804.
- Remedy for corns. J. B. Clower. No. 142,966; May 24; v. 286; p. 844.
- Remedy for corns, callouses, &c. Bauer & Black. Nos. 140,747-8; Mar. 29; v. 284; p. 941.
- Remedy for coughs and colds and a tonic for respiratory organs. Bristol-Myers Company. No. 142,948; May 24; v. 286; p. 844.
- Remedy for debilities of stomach, headache, &c. C. A. Kalinska. No. 138,649; Jan. 4; v. 282; p. 187.
- Remedy for diarrhea, &c. Ware Chemical Co. No. 145,856; Aug. 16; v. 289; p. 599.
- Remedy for domestic fowl, Diarrhea. W. A. Brooks. No. 147,939; Nov. 8.
- Remedy for dysmenorrhea. H. Friedstein. No. 140,806; Mar. 29; v. 284; p. 943.
- Remedy for eczema, &c. O. I. Lewis. No. 146,800; Sept. 20; v. 290; p. 635.
- Remedy for goiter. E. A. Shabel. No. 140,211; Mar. 8; v. 284; p. 367.
- Remedy for hay-fever and the like. H. S. Morgan. No. 141,416; Apr. 19; v. 285; p. 568.
- Remedy for headache, colds, and rheumatism. Liberty Products Company. Nos. 145,976-7; Aug. 23; v. 289; p. 788.



- Remedy for indigestion. G. S. Dunbar. No. 143,937; June 21; v. 287; p. 579.
- Remedy for infected or running sores. A. Trudeau. No. 140,234; Mar. 8; v. 284; p. 368.
- Remedy for la grippe and colds. Zerbst Pharmaceutical Co. No. 145,532; Aug. 2; v. 289; p. 187.
- Remedy for piles. R. N. Jones. No. 149,965; Dec. 27.
- Remedy for piles. J. W. Oils. No. 140,506; Mar. 15; v. 284; p. 585.
- Remedy for rheumatism. F. V. Sawyer. No. 144,272; June 28; v. 287; p. 776.
- Remedy for rheumatism, &c. Winthrop Chemical Company. No. 142,178; May 3; v. 286; p. 192.
- Remedy for scalps and hair. J. Miller. No. 140,172; Mar. 8; v. 284; p. 366.
- Remedy for stomach disorders. Stom-A-Lax Medicine Co. No. 148,542; Nov. 15.
- Remedy for stomach, kidney, liver, bladder, and blood troubles, &c. R. H. MacDonald. No. 149,150; Dec. 6.
- Remedy for the internal treatment of coughs and colds. The Mirolene Co. No. 139,005; Jan. 18; v. 282; p. 555.
- Remedy for the scalp and hair. J. C. Kelley. No. 146,270; Sept. 6; v. 290; p. 200.
- Remedy for the treatment of the blood, heart, brain, and nervous system. Dr. Miles Medical Company. No. 141,782; Apr. 26; v. 285; p. 790.
- Remedy for whooping-cough, &c. J. Jann. No. 148,673; Nov. 22.
- Remedy, Headache. A. A. Burnham. No. 145,934; Aug. 23; v. 289; p. 787.
- Remedy, Headache and neuralgia. H. M. Griffin. No. 149,934; Dec. 27.
- Remedy, Laxative cold and grip. C. W. Westenfelter. No. 142,172; May 3; v. 286; p. 192.
- Remedy or medicine for indigestion and dyspepsia. J. P. Schrodt. No. 140,960; Mar. 29; v. 284; p. 948.
- Remedy, Pile. J. F. Logan. No. 146,113; Aug. 30; v. 289; p. 1014.
- Remedy, Reducing. Pan-American Pharmaceutical Co. No. 140,014; Mar. 1; v. 284; p. 174.
- Remedy, Sick-headache. A. C. Philn, Jr. No. 140,461; Mar. 15; v. 284; p. 583.
- Remedy, Stomach. M. Barzak. No. 144,546; July 12; v. 288; p. 423.
- Remedy, Vaginal and uterine. Twing Laboratories. No. 140,235; Mar. 8; v. 284; p. 368.
- Repair kits, Inner-tube. L. Stafford. No. 149,247; Dec. 6.
- Repair kits, Portable. American Automobile Accessories Company. No. 148,778; Nov. 29.
- Resins suitable for the production of perfumes, Fluid. Edward T. Beiser Co. No. 140,078; Mar. 8; v. 284; p. 363.
- Resistance wires and ribbons. Electrical Alloy Company. No. 144,564; July 12; v. 288; p. 423.
- Retorts for distilling wood. Valdosta Retort Co. No. 146,616; Sept. 13; v. 290; p. 423.
- Retort for producing gas, tar, and creosote from straw, &c. Frank Pfeifer and Bernard R. Pfeifer. No. 148,506; Nov. 15.
- Rheostats. Forest Electric Co. No. 146,572; Sept. 13; v. 290; p. 421.
- Ribbon and textile fabric in the piece, towels, tapestry, &c. Bernhard Ulmann Co. No. 144,936; July 19; v. 288; p. 623.
- Ribbon in the piece. Columbia Ribbon Co. No. 144,309; June 28; v. 287; p. 779.
- Ribbon novelties. H. Broder. No. 138,585; Jan. 4; v. 282; p. 186.
- Ribbons. Johnson, Cowdin & Company. Nos. 146,778-9; Sept. 20; v. 290; p. 634.
- Ribbons. J. W. Streeton Company. No. 143,751; June 7; v. 287; p. 187.
- Ribbons and goods in the piece. Johnson Cowdin & Company. No. 144,311; June 28; v. 287; p. 780.
- Ribbons and goods in the piece. Johnson Cowdin & Company. No. 144,816; July 19; v. 288; p. 619.
- Ribbons and certain named piece goods. Johnson Cowdin & Company. No. 145,122; July 26; v. 288; p. 814.
- Ribbons and piece goods of silks and satins and mixtures. Johnson Cowdin & Company. No. 145,123; July 26; v. 288; p. 814.
- Ribbons and silks, satins, and mixtures in the piece. Johnson Cowdin & Co. Nos. 146,076-8; Aug. 30; v. 289; p. 1013.
- Ribbons, dress goods, and shirtings. Economic Manufacturing Co. No. 148,003; Nov. 8.
- Ribbons in lengths. H. Adler & Bro. No. 145,304; Aug. 2; v. 289; p. 177.
- Ribbons in the piece, Silk. Mills & Gibb Corporation. No. 140,174; Mar. 8; v. 284; p. 366.
- Ribbons in the piece, Silk and cotton. Rodstein and Hyman. No. 145,189; July 26; v. 288; p. 816.
- Ribbons, laces, tulle, and woven fabrics in the piece. Dollfus Mieg & Cie, Societe Anonyme. Nos. 145,947-8; Aug. 23; v. 289; p. 787.
- Ribbons, silk and satin piece goods. Johnson Cowdin & Company. No. 144,815; July 19; v. 288; p. 619.
- Ribbons, Silk, velvet, and cotton. W. E. Dodd. No. 138,806; Jan. 11; v. 282; p. 376.
- Rice. I. Akaba. No. 138,556; Jan. 4; v. 282; p. 185.
- Rice. Mrs. Charles Saint. No. 146,138; Aug. 30; v. 289; p. 1015.
- Rice. B. Flischer & Co. No. 148,329; Nov. 8.
- Rice. Pacific Rice Growers Association. No. 144,888; July 19; v. 288; p. 621.
- Ring-travelers. National Ring Traveler Co. No. 139,582; Feb. 8; v. 283; p. 353.
- Ring-travelers. National Ring Traveler Co. No. 141,184; Apr. 12; v. 285; p. 382.
- Ring-travelers. National Ring Traveler Co. No. 144,251; June 28; v. 287; p. 776.
- Ring-travelers. National Ring Traveler Co. No. 145,424; Aug. 2; v. 289; p. 180.
- Rings, brooches, pendants, &c., Finger. M. Born Company. No. 139,121; Jan. 25; v. 282; p. 733.
- Rings, Finger-. J. B. Bowden & Company. No. 147,552; Oct. 25.
- Rings, Finger-. N. M. Kirshner. No. 147,627; Oct. 25.
- Rings, Finger-. C. B. Namiot. No. 143,105; May 24; v. 286; p. 849.
- Rings, Finger-. J. Simmons. No. 139,883; Feb. 22; v. 283; p. 755.
- Rings, Finger-. Vandervoort Brothers. No. 144,962; July 19; v. 288; p. 623.
- Rings, Wedding-. Lebolt & Company. No. 143,066; May 24; v. 286; p. 847.
- Rings, Wedding-. J. A. Meyers & Co. No. 144,860; July 19; v. 288; p. 620.
- Rings, White-sapphire finger-. S. Gutter. No. 147,615; Oct. 25.
- Rivet-sets. Rich Tool Company. No. 142,741; May 17; v. 286; p. 633.
- Rivets. H. A. Wilson Company. No. 147,434; Oct. 11.
- Riveting machines, lawn-rollers, &c. Simmons Hardware Company. No. 140,058; Mar. 1; v. 284; p. 178.
- Road-graders. Stockland Road Machinery Company. No. 146,515; Sept. 6; v. 290; p. 216.
- Roads and streets, Machines used in the construction and maintenance of. Kinney Manufacturing Company. No. 138,909; Jan. 11; v. 282; p. 381.
- Roasters and parts and supplies for same for roasting coffee, &c. Jabez Burns & Sons. No. 138,781; Jan. 11; v. 282; p. 375.
- Roasting food products, Machines for. The Hobart Manufacturing Company. No. 148,435; Nov. 15.
- Roasting-pots. Griswold Mfg. Co. No. 145,267; July 26; v. 288; p. 822.
- Robes and shawls, Wool. Beckman Company. No. 140,077; Mar. 8; v. 284; p. 363.
- Roller-cycle of the scooter type. Kokomo Specialties Mfg. Co. No. 144,190; June 28; v. 287; p. 774.
- Romper-cloths, piece goods. Walton N. Moore Dry Goods Co. No. 150,014; Dec. 27.
- Rompers, Children's. E. F. Murray. No. 144,014; June 21; v. 287; p. 581.
- Roofing. Simmons Hardware Company. No. 145,524; Aug. 2; v. 289; p. 187.
- Roofing and roofing-cements, Felt. Texas Company. No. 138,720; Jan. 4; v. 282; p. 190.
- Roofing, Asphalt. Mohegan Wall Board & Roofing Corporation. Nos. 141,615-16; Apr. 26; v. 285; p. 781.
- Roofing, Composition felt. Texas Company. No. 142,153; May 3; v. 286; p. 191.
- Roofing, Liquid. Asbestos Products Corporation. No. 143,784; June 7; v. 287; p. 189.
- Roofing, Prepared. Chatfield Manufacturing Company. No. 148,376; Nov. 15.
- Roofing, Prepared. Ford Roofing Products Co. No. 143,604; June 7; v. 287; p. 183.
- Roofing, Prepared. Heppes-Nelson Roofing Company. Nos. 144,579-80; July 12; v. 288; p. 424.
- Roofing, Prepared sheet-. South Bend Asphalt Roofing Co. No. 146,878; Sept. 20; v. 290; p. 637.
- Root-beer. Independent Breweries Company. No. 149,956; Dec. 27.
- Root-beer. Schibi Spring Brewing Co. No. 146,861; Sept. 20; v. 290; p. 637.
- Root-beer. Schoenhofen Company. No. 145,455; Aug. 2; v. 289; p. 181.
- Root-beer. Dr. Swett Root Beer Inc. No. 150,136; Dec. 27.
- Root-beer and ginger-ale. J. R. Council. No. 144,735; July 19; v. 288; p. 616.
- Root-beer and ginger-ale. H. B. Hunter Co. No. 142,278; May 10; v. 286; p. 404.
- Root-beer extract. The E. L. Patch Co. No. 138,691; Jan. 4; v. 282; p. 189.
- Root-beer extract, orange phosphates, &c. Grand Union Tea Co. No. 140,392; Mar. 15; v. 284; p. 581.
- Rope, cord, and twine. American Manufacturing Company. Nos. 142,411-16; May 17; v. 286; p. 623.
- Rope, cord, and twine. American Manufacturing Company. Nos. 146,941-3; Sept. 27; v. 290; p. 803.
- Rope, cord, and twine manufactured from vegetable fiber. American Manufacturing Company. No. 144,507; July 5; v. 288; p. 197.
- Rope, cord, and twine manufactured from vegetable fiber. American Manufacturing Company. Nos. 399,919-20; Feb. 22; v. 283; p. 757.
- Rope, cord, twine. American Manufacturing Company. No. 140,252; Mar. 8; v. 284; p. 369.
- Rope, cord, twine. American Manufacturing Company. No. 146,420; Sept. 6; v. 290; p. 205.
- Rope, Lariat-. Portland Cordage Co. No. 149,485; Dec. 13.



## Alphabetical list of trade-marks—Continued.

- Rope made of aluminium. Aluminium-Walzwerke A.-G. No. 149,335; Dec. 13.
- Rope made from fiber. Tubbs Cordage Company. No. 144,955; July 19; v. 288; p. 623.
- Rope made from manila, &c. Columbian Rope Company. No. 142,475; May 17; v. 286; p. 625.
- Rope, Manila. Portland Cordage Co. No. 142,709; May 17; v. 286; p. 632.
- Rope, Manila. Portland Cordage Co. No. 142,713; May 17; v. 286; p. 632.
- Rope, Manila. Whitlock Cordage Co. No. 142,837; May 17; v. 286; p. 636.
- Rope, Manila fiber. Whitlock Cordage Co. No. 142,836; May 17; v. 286; p. 636.
- Rope, twine, and cordage. Columbian Rope Company. No. 148,573; Nov. 15.
- Rope, twine, and cordage of vegetable fiber. Columbian Rope Co. No. 144,518; July 5; v. 288; p. 198.
- Ropes, fiber cords, twine, and binder-twine, Non-metallic. B. F. Avery & Sons. No. 142,438; May 17; v. 286; p. 624.
- Rouge. F. R. Arnold & Co. No. 146,945; Sept. 27; v. 290; p. 803.
- Rouge and face-powder. V. Vivaudou, Inc. No. 148,746; Nov. 22.
- Rouge, paste, liquid, or powder. Harriet Hubbard Ayer. No. 138,941; Jan. 18; v. 282; p. 553.
- Rouges, face-creams, talcs, &c. Jolie, Inc. No. 138,979; Jan. 18; v. 282; p. 554.
- Route-guides and mileage-registers, Combination. Guide-meter Company, a Corporation. No. 140,817; Mar. 29; v. 284; p. 944.
- Rubber and canvas belts and rubber hose. Manhattan Rubber Mfg. Co. No. 148,154; Nov. 8.
- Rubber and composition soles and heels. Essex Rubber Company. No. 148,830; Nov. 29.
- Rubber baby-pants. J. J. Beyerle Mfg. Co. Nos. 146,493-4; Sept. 6; v. 290; pp. 207-8.
- Rubber bands. American Lead Pencil Company. No. 149,339; Dec. 13.
- Rubber bands, Stationers'. B. F. Goodrich Company. No. 145,102; July 26; v. 288; p. 813.
- Rubber belting. Combination Rubber Mfg. Co. No. 138,757; Jan. 4; v. 282; p. 191.
- Rubber belting and hose. New Jersey Car Spring & Rubber Co. No. 149,463; Dec. 13.
- Rubber belting and hose. W. S. Nott Company. Nos. 146,047-8; Aug. 23; v. 289; p. 794.
- Rubber boots and shoes. Bourn Rubber Co. No. 144,989; July 19; v. 288; p. 626.
- Rubber boots and shoes. Hood Rubber Company. No. 144,527; July 5; v. 288; p. 199.
- Rubber boots and shoes. Hood Rubber Company. No. 147,332; Oct. 11.
- Rubber boots and shoes, overshoes, &c. Hood Rubber Company. No. 146,253; Sept. 6; v. 290; p. 200.
- Rubber cement. Hadley Bros.-Uhl Company. No. 148,850; Nov. 29.
- Rubber cement and gum, &c. India Tire & Rubber Co. No. 148,086; Nov. 8.
- Rubber cement, Composition. Lord & Brown. No. 147,635; Oct. 25.
- Rubber cements, Liquid. Montgomery Bros. No. 147,798; Nov. 1.
- Rubber, Chemical compound used in the manufacture of vulcanized. R. T. Vanderbilt Co. No. 146,898; Sept. 20; v. 290; p. 638.
- Rubber coats. W. MacPherson. No. 140,888; Mar. 29; v. 284; p. 946.
- Rubber dental, medical, and surgical goods. B. F. Goodrich Company. No. 144,219; June 28; v. 287; p. 774.
- Rubber erasers. Joseph Dixon Crucible Company. No. 142,257; May 10; v. 286; p. 404.
- Rubber footwear, Repair-patch of molded and sheet rubber for. Robertson & Sons Shoe Repairers. No. 147,391; Oct. 11.
- Rubber gloves. Wilson Rubber Company. Nos. 145,021-3; July 19; v. 288; p. 630.
- Rubber goods, Mechanical. Boston Belting Corporation. No. 149,643; Dec. 20.
- Rubber heels. Gulick and Snyder. No. 146,474; Sept. 6; v. 290; p. 212.
- Rubber heels. Hill Rubber Heel Company. No. 143,367; May 31; v. 286; p. 1050.
- Rubber heels. R. E. Miller, Inc. No. 142,379; May 10; v. 286; p. 409.
- Rubber heels. Taunton Rubber Co. No. 141,812; Apr. 26; v. 285; p. 793.
- Rubber heels. F. W. Willis. Nos. 141,273-4; Apr. 12; v. 285; p. 385.
- Rubber heels and lifts. Tee Pee Rubber Company. No. 141,445; Apr. 19; v. 285; p. 569.
- Rubber horseshoe-pads. Vought & Williams. No. 142,344; May 10; v. 286; p. 406.
- Rubber hose. B. F. Goodrich Company. Nos. 144,781-2; July 19; v. 288; p. 618.
- Rubber hose. Oxweld Acetylene Company. No. 140,508; Mar. 15; v. 284; p. 585.
- Rubber hose, rubber and asbestos packing, and brake-lining. Union Rubber & Asbestos Co. No. 144,540; July 5; v. 288; p. 200.
- Rubber hot-water bags or bottles. Seamless Rubber Company. No. 146,606; Sept. 13; v. 290; p. 422.
- Rubber household aprons, baby-pants, bathing-caps, &c. I. B. Kleinert Rubber Company. No. 140,859; Mar. 29; v. 284; p. 945.
- Rubber household aprons, baby-pants, diapers, &c. I. B. Kleinert Rubber Company. No. 142,284; May 10; v. 286; p. 404.
- Rubber-lined fabric hose. Gutta Percha & Rubber Manufacturing Company. No. 140,818; Mar. 29; v. 284; p. 944.
- Rubber mats ad mattings. Federal Rubber Company. No. 147,770; Nov. 1.
- Rubber mats and matting. Federal Rubber Company. Nos. 149,049-50; Dec. 6.
- Rubber nipples. Revere Rubber Company. No. 144,456; July 5; v. 288; p. 194.
- Rubber packing. Jenkins Rubber Co. No. 140,847; Mar. 29; v. 284; p. 945.
- Rubber pants for infants' wear. Sanitary Rubber Novelty Mfg. Co. No. 149,222; Dec. 6.
- Rubber patches. Eagle Tire Patch Co. No. 149,371; Dec. 13.
- Rubber patches for automobile-tube punctures, &c. Hadley Bros.-Uhl Company. No. 147,616; Oct. 25.
- Rubber patches, Sheet-. E. T. Barker. No. 144,171; June 28; v. 287; p. 773.
- Rubber patches, Sheet-. Hugg-Tite Patch Co. No. 147,223; Oct. 4.
- Rubber patches, Sheet-. Jones & Jones Company. No. 145,124; July 26; v. 288; p. 814.
- Rubber patches for inner tubes and tires. Red Devil Patch Co. No. 148,227; Nov. 8.
- Rubber patches, tires, and tubes. Patten Manufacturing Company. No. 148,338; Nov. 8.
- Rubber patching-stock and transparent cement. B. M. Major. No. 147,638; Oct. 25.
- Rubber rings for fruit and preserve jars. Smalley, Kivlan & Onthank. No. 139,886; Feb. 22; v. 283; p. 755.
- Rubber rollers for all inking-presses. Progress Roller Company. No. 146,336; Sept. 6; v. 290; p. 202.
- Rubber sheetings. Kinzie Rubber & Manufacturing Co. No. 149,786; Dec. 20.
- Rubber soles and heels. Foster Rubber Company. No. 138,760; Jan. 4; v. 282; p. 191.
- Rubber soles and heels. O'Sullivan Rubber Company, Inc. No. 144,140; June 21; v. 287; p. 589.
- Rubber sponges. G. W. Beldam. No. 148,355; Nov. 15.
- Rubber sponges. G. W. Beldam. No. 149,638; Dec. 20.
- Rubber sponges. Miller Rubber Company. No. 143,091; May 24; v. 286; p. 848.
- Rubber sponges and sponge-rubber. Miller Rubber Company. No. 140,714; Mar. 22; v. 284; p. 751.
- Rubber sponges and sponge-rubber goods. Featheredge Rubber Company. No. 142,519; May 17; v. 286; p. 626.
- Rubber stamps. Horder's Incorporated. No. 144,797; July 19; v. 288; p. 618.
- Rubber thread. B. F. Goodrich Company. No. 143,957; June 21; v. 287; p. 579.
- Rubber tire and tube patches, &c., Sheet-. J. W. Freedly. No. 149,064; Dec. 6.
- Rubber tires. Coast Tire and Rubber Company. No. 149,652; Dec. 20.
- Rubber tires and tubes. Cupples Company, Manufacturers. No. 144,521; July 5; v. 288; p. 198.
- Rubber tires and tubes. Du Bois Rubber & Tube Company. Nos. 149,904-5; Dec. 27.
- Rubber toys. Faultless Rubber Company. No. 148,017; Nov. 8.
- Rubefacient solution. Sharp & Dohme. No. 142,125; May 3; v. 286; p. 190.
- Rubies and sapphires, ring-mountings, Reconstructed. H. Paulson. No. 148,205; Nov. 8.
- Ruffings and plaitings. G. Sidenberg & Co. No. 150,111; Dec. 27.
- Rug-cleaner. Silvey and Golliday. No. 147,404; Oct. 11.
- Rugs. Empire Carpet Co. Nos. 141,280-90; Apr. 12; v. 285; p. 388.
- Rugs and carpets. M. J. Whittall Associates. No. 146,626; Sept. 13; v. 290; p. 423.
- Rugs and carpets of textile material. M. J. Whittall Associates. Nos. 144,541-2; July 5; v. 288; p. 200.
- Rugs, Rag and grass. M. Feldman. No. 143,243; May 24; v. 286; p. 856.
- Rugs, blankets, couch and bed covers, &c., Certain. F. C. Huych & Sons. No. 149,409; Dec. 13.
- Rugs, Grass. Charles William Stores. No. 140,469; Mar. 15; v. 284; p. 584.
- Rugs, Grass. S. L. Stroud. No. 149,738; Dec. 20.
- Rugs, Tapestry Brussels. Hirst-Roger Co. No. 139,455; Feb. 1; v. 283; p. 175.
- Rugs, Textile. George Borgfeldt & Co. No. 149,003; Dec. 6.
- Rugs, Wool. Sears, Roebuck and Co. No. 145,217; July 26; v. 288; p. 817.
- Rugs, Woven. J. Wittman. No. 148,317; Nov. 8.
- Rules. Master Rule Mfg. Co. No. 146,538; Sept. 6; v. 290; p. 219.
- Rules. Rustless Rule Co. No. 141,804; Apr. 26; v. 285; p. 793.
- Rum, brandy, and ethyl alcohol. Young Q. Wile. No. 140,247; Mar. 8; v. 284; p. 368.
- Russian dressing and mayonnaise. O. Schmidt. No. 138,859; Jan. 11; v. 282; p. 377.
- Rust-eradicator. H. H. Sebree. No. 139,031; Jan. 18; v. 282; p. 555.



- Rust-preventing and polishing preparation. F. T. Adams. No. 148,968; Dec. 6.
- Rust-remover, Chemical. Tersin Products Company. Nos. 140,446-7; Mar. 15; v. 284; p. 583.
- Rust-solvent and lubricant. Halstead Specialties Company. No. 144,793; July 19; v. 288; p. 618.
- Rust-stains, Chemical products for removing. J. Tirel. No. 139,411; Feb. 1; v. 283; p. 172.
- Saddies and bridles and leather parts of same. Henry Saddie & Sons Company. No. 139,326; Feb. 1; v. 283; p. 169.
- Saddles, collars, and harness parts. Perkins-Campbell Company. No. 147,060; Sept. 27; v. 290; p. 808.
- Sadiron, Automatic electric. Dover Manufacturing Company. No. 147,996; Nov. 8.
- Sadiron, Electric. Dover Manufacturing Company. No. 147,997; Nov. 8.
- Safes, keys, locks, safe fittings and interiors and parts thereof. General Fireproofing Co. No. 143,613; June 7; v. 287; p. 183.
- Safety-pins. Penn Rivet Corporation. No. 150,050; Dec. 27.
- Safety-pins. Penn Rivet Corporation. No. 150,052; Dec. 27.
- Salad-dressing. A. De Martino. No. 143,582; June 7; v. 287; p. 182.
- Salad-dressing. A. Zittel. No. 141,281; Apr. 12; v. 285; p. 385.
- Salad-dressing, Cream. Mrs. M. O. Randall. No. 148,225; Nov. 8.
- Salad-dressing, vinegar, jellies, &c. San Diego Conserve Company. No. 145,452; Aug. 2; v. 289; p. 181.
- Salad, Mayonnaise, and mustard dressings. McCormick & Co. No. 139,724; Feb. 15; v. 283; p. 541.
- Sales-boards. J. F. Dwyer. No. 140,371; Mar. 15; v. 284; p. 581.
- Sales-registers, Pocket. J. L. Morris. No. 144,867; July 19; v. 288; p. 620.
- Saline aperient for the treatment of diseases. A. A. Burnham. No. 143,844; June 14; v. 287; p. 399.
- Salt. Alex. Kerr Bros. & Co. No. 139,336; Feb. 1; v. 283; p. 170.
- Salt. Alex. Kerr Bros. & Co. No. 143,059; May 24; v. 286; p. 847.
- Salt. Colonial Salt Company. No. 141,036; Mar. 29; v. 284; p. 952.
- Salt. Colonial Salt Company. No. 146,202; Sept. 6; v. 290; p. 198.
- Salt. Eastman Salt Products Company. No. 140,114; Mar. 8; v. 284; p. 364.
- Salt. Myles Salt Company. No. 139,175; Jan. 25; v. 282; p. 735.
- Salt. Remington Salt Company. No. 139,024; Jan. 18; v. 282; p. 555.
- Salt for diabetes, Food-. M. Richartz. No. 147,152; Oct. 4.
- Salt, Table. Bates & Abbott. No. 146,066; Aug. 30; v. 289; p. 1013.
- Salt, Table-. Cutler-Magner Co. No. 139,781; Feb. 22; v. 283; p. 752.
- Salt, Tasteless Epsom. American Scientific Laboratory. No. 139,966; Mar. 1; v. 284; p. 173.
- Salts. M. F. Pratt. No. 142,388; May 10; v. 286; p. 410.
- Salts, Bath-. M. G. Scott. No. 140,961; Mar. 29; v. 284; p. 948.
- Salts, Effervescent. Frank W. Horner, Limited. No. 138,973; Jan. 18; v. 282; p. 554.
- Salts, Stomach-. C. H. Miller. No. 147,130; Oct. 4.
- Salve. Alden Remedy Co. No. 139,109; Jan. 25; v. 282; p. 733.
- Salve. Arneth and Minton Mfg. Co. No. 140,736; Mar. 29; v. 284; p. 941.
- Salve. M. E. Beauford. No. 147,750; Nov. 1.
- Salve. J. S. Chism. No. 145,629; Aug. 16; v. 289; p. 592.
- Salve. Creft Chemical Co. No. 143,928; June 21; v. 287; p. 578.
- Salve. P. A. Hayes. No. 140,822; Mar. 29; v. 284; p. 944.
- Salve. G. H. Hyland. No. 140,840; Mar. 29; v. 284; p. 944.
- Salve. J. Jankowski. No. 149,962; Dec. 27.
- Salve. Mrs. A. Kibby. No. 146,272; Sept. 6; v. 290; p. 200.
- Salve. T. V. Legros. No. 143,068; May 24; v. 286; p. 848.
- Salve. H. Lembcke. No. 139,157; Jan. 25; v. 282; p. 734.
- Salve. R. L. Marer. No. 148,899; Nov. 29.
- Salve. R. McD. Smith & Sons. No. 143,172; May 24; v. 286; p. 851.
- Salve. Misto Manufacturing Co. No. 143,097; May 24; v. 286; p. 849.
- Salve. J. F. Murray. No. 140,181; Mar. 8; v. 284; p. 366.
- Salve. S. K. Sass. No. 139,468; Feb. 1; v. 283; p. 177.
- Salve. J. Shterk. No. 146,141; Aug. 30; v. 289; p. 1015.
- Salve. J. H. Snyder Med. Co. No. 140,217; Mar. 8; v. 284; p. 367.
- Salve. U. B. Southwick. No. 147,409; Oct. 11.
- Salve. G. C. Wilson. No. 143,224; May 24; v. 286; p. 853.
- Salve and ointment for use in treatment of rectal diseases. O. R. Von Bonnewitz. No. 141,459; Apr. 19; v. 285; p. 569.
- Salve and ointment preparations. C. Randall. No. 146,850; Sept. 20; v. 290; p. 636.
- Salve, Antiseptic healing-. M. Zielinski. No. 145,880; Aug. 16; v. 289; p. 600.
- Salve, Certain. Mentholatum Company. No. 147,129; Oct. 4.
- Salve, Corn-. D. Thall. No. 147,039; Sept. 27; v. 290; p. 806.
- Salve, Counter-irritant. J. F. Murray. No. 140,180; Mar. 8; v. 284; p. 366.
- Salve, Deodorant. F. M. Oshimo. No. 141,631; Apr. 26; v. 285; p. 782.
- Salve for aid in congestion and inflammation, &c. J. H. Cole. No. 144,559; July 12; v. 288; p. 423.
- Salve for boils and carbuncles. J. H. Brodhead. No. 149,853; Dec. 27.
- Salve for burns, wounds, sunburn, &c. K. G. Hadjieff. No. 139,993; Mar. 1; v. 284; p. 174.
- Salve for cuts and bruises. S. Asfour. No. 148,782; Nov. 29.
- Salve for cuts, boils, &c. J. W. Henderson. No. 149,108; Dec. 6.
- Salve for cuts, sore throat, &c. C. E. Zipperer. No. 144,653; July 12; v. 288; p. 426.
- Salve for drawing and healing boils, &c. E. Greenbaum. No. 141,950; May 3; v. 286; p. 185.
- Salve for eczema. A. Kundeus. No. 148,119; Nov. 8.
- Salve for eczema, &c. L. B. Williams. No. 142,175; May 3; v. 286; p. 192.
- Salve for hemorrhoids. S. Basso. No. 144,341; July 5; v. 288; p. 191.
- Salve for inflammations. W. S. Vick Chemical Co. No. 145,848; Aug. 16; v. 289; p. 599.
- Salve for massaging paralyzed limbs. N. Elovitz. No. 141,541; Apr. 26; v. 285; p. 779.
- Salve for piles. G. T. Floto. No. 149,056; Dec. 6.
- Salve for piles. Herboline Company. No. 146,108; Aug. 30; v. 289; p. 1014.
- Salve for piles, Medicinal. W. M. Bowman. No. 144,552; July 12; v. 288; p. 423.
- Salve for skin disease. U. G. Ruff, Jr. No. 149,800; Dec. 20.
- Salve for sores, cuts, and piles. Austen Cologne Company. No. 145,599; Aug. 16; v. 289; p. 591.
- Salve for the feet. M. Woytko. No. 142,183; May 3; v. 286; p. 192.
- Salve for tired and aching feet. D. C. Beckett. No. 140,076; Mar. 8; v. 284; p. 363.
- Salve for treatment of cancers and cancerous sores. A. L. Beall. No. 149,838; Dec. 27.
- Salve for treatment of piles, blood-poison, &c. C. F. Karnes. No. 147,117; Oct. 4.
- Salve, Hair-. R. G. Anguera. No. 140,071; Mar. 8; v. 284; p. 363.
- Salve, Medicinal. G. Horzsa. No. 141,969; May 3; v. 286; p. 185.
- Salve, Medicinal. F. M. Hunter. No. 148,670; Nov. 22.
- Salve, Mentho-pine. Crane Medicine Co. No. 140,101; Mar. 8; v. 284; p. 364.
- Salve, Menthol. Davis & Lawrence Company. Nos. 140,104-5; Mar. 8; v. 284; p. 364.
- Salve or ointment. A. A. Bretz. No. 144,178; June 28; v. 287; p. 773.
- Salve or ointment for eczema. G. Hutchinson. No. 140,839; Mar. 29; v. 284; p. 944.
- Salve or ointment for external uses. A. H. Ryan. No. 146,347; Sept. 6; v. 290; p. 303.
- Salve, Pile-. J. R. Hayhurst. No. 147,327; Oct. 11.
- Salve, Pile-. Marjax Chemical Co. No. 141,165; Apr. 12; v. 285; p. 382.
- Salves and ointments. Henry Thayer & Co. No. 139,040; Jan. 18; v. 282; p. 556.
- Salves for boils, carbuncles, felons, &c. S. O. O'Dell. No. 144,255; June 28; v. 287; p. 776.
- Salves for burns, scalds, bruises. Buraimo Company. No. 147,076; Oct. 4.
- Salves for cuts, burns, sores, &c. J. C. Trask. No. 147,822; Nov. 1.
- Salves for healing cuts and bruises. J. Fita. No. 140,383; Mar. 15; v. 284; p. 581.
- Sand and gravel. Wolf River Sand Co. No. 146,527; Sept. 6; v. 290; p. 218.
- Sand-blast and allied equipment and foundry-supplies. No. 141,633; Apr. 26; v. 285; p. 782.
- Sand, Molding-. Keener Sand & Clay Co. No. 143,808; June 7; v. 287; p. 191.
- Sand, Molding-. Keener Sand & Clay Co. No. 146,784; Sept. 20; v. 290; p. 634.
- Sandwiches, Peanut-. R. G. Jordan, Jr. No. 146,782; Sept. 20; v. 290; p. 634.
- Sanitary napkins. Hospital Specialty Company. No. 146,483; Sept. 6; v. 290; p. 213.
- Sanitary toothbrush-receptacles. B. R. Morrison. No. 149,704; Dec. 20.
- Sardines. Globe Canning Co. No. 138,817; Jan. 11; v. 282; p. 376.
- Sardines. La Manna, Azema & Farnan. No. 138,988; Jan. 18; v. 282; p. 554.



*Alphabetical list of trade-marks—Continued.*

- Sardines and olive-oil. Von Bremen, Asche & Co. No. 146,015; Aug. 23; v. 289; p. 789.
- Sardines, Olives, canned cherries. Cresca Company. No. 142,196; May 3; v. 286; p. 192.
- Sash, windows, doors, blinds, &c. Cole Manufacturing Company. No. 141,901; May 3; v. 286; p. 183.
- Sashes and frames for certain purposes. Caskey-Dupree Mfg. Co. No. 149,757; Dec. 20.
- Sateen in the piece. Sears, Roebuck and Co. No. 144,467; July 5; v. 288; p. 195.
- Sateen piece goods. Strauss Brothers. No. 139,406; Feb. 1; v. 283; p. 172.
- Satin and satin de chine in the piece. William Skinner & Sons. No. 146,876; Sept. 20; v. 290; p. 637.
- Satin in the piece. Jacob Miller Sons & Co. No. 140,647; Mar. 22; v. 284; p. 746.
- Satin in the piece. Salembier & Clay. No. 144,050; June 21; v. 287; p. 582.
- Satin piece goods. James McCreery & Company. No. 140,007; Mar. 1; v. 284; p. 174.
- Satin taffeta ribbon in the piece. W. V. Judkins. No. 140,407; Mar. 15; v. 284; p. 582.
- Satins in the piece. T. J. Mitchell & Co. No. 145,154; July 26; v. 288; p. 815.
- Sauce, (food relishes.) K. Yasuhara. No. 141,021; Mar. 29; v. 284; p. 950.
- Sauce for seasoning food. S. Nagano. No. 145,514; Aug. 2; v. 289; p. 185.
- Sauces, Cooking and table. Y. Yamamoto. No. 141,022; Mar. 29; v. 284; p. 950.
- Sausages. Western Sausage & Provision Co. No. 142,835; May 17; v. 286; p. 636.
- Sausages and other meat products. David Berg & Co. No. 147,545; Oct. 25.
- Sausages, Breakfast-. Hammond Standish & Co. No. 146,761; Sept. 20; v. 290; p. 634.
- Sawmill-hogs. Diamond Iron Works. No. 141,922; May 3; v. 286; p. 184.
- Sawmills. Hall Auto Company. No. 142,556; May 17; v. 286; p. 627.
- Saws. American Saw and Manufacturing Company. No. 144,095; June 21; v. 287; p. 585.
- Saws. H. Boker & Co. No. 141,874; May 3; v. 286; p. 182.
- Saws. Henry Disston & Sons. Nos. 142,864-5; May 17; v. 286; p. 638.
- Saws. Simonds Manufacturing Company. No. 139,884; Feb. 22; v. 283; p. 755.
- Saws. Simonds Manufacturing Company. No. 140,970; Mar. 29; v. 284; p. 948.
- Saws and machine-knives. T. F. Shurly Co. No. 149,613; Dec. 13.
- Saws, Teeth for stone-. W. F. Meyers Company. No. 148,593; Nov. 15.
- Scales and instruments of precision, Weighing-. Toledo Scale Company. No. 141,301; Apr. 12; v. 285; p. 389.
- Scales, Weighing-. Detroit Automatic Scale Company. No. 145,257; July 26; v. 288; p. 821.
- Scalp and hair preparation. R. B. Maclin. No. 139,832; Feb. 22; v. 283; p. 753.
- Scalp and hair preparations. J. W. Gillespie. No. 139,987; Mar. 1; v. 284; p. 173.
- Scalp and hair-tonic, Compound for the treatment of the. L. P. Moultrie. No. 143,099; May 24; v. 286; p. 849.
- Scalp-tonics. Sickels & Roush. No. 141,437; Apr. 19; v. 285; p. 569.
- Scarf-pin protectors. M. A. Fischer. No. 142,529; May 17; v. 286; p. 627.
- Scarfs, blankets, mats, &c. Bureau and table. F. A. Patrick & Co. No. 142,891; May 17; v. 286; p. 641.
- Scarfs, stockings, socks, sweaters. F. C. Huyck & Sons. No. 147,333; Oct. 11.
- Scenery. A. W. Oberbeck. No. 147,659; Oct. 25.
- Scenery and window backgrounds, Theatrical. Service Studios. No. 150,106; Dec. 27.
- Scissors. Rikkers Bros. No. 148,524; Nov. 15.
- Scissors. H. Wolff & Co. No. 149,554; Dec. 13.
- Scissors and shears. Acme Shear Company. No. 142,401; May 17; v. 286; p. 623.
- Scissors and shears. Acme Shear Company. No. 148,967; Dec. 6.
- Scissors, shears, pocket-knives, and razors. G. M. Mayer. No. 148,900; Nov. 29.
- Scouring-powder, Kosher. Kirkman & Son. No. 141,994; May 3; v. 286; p. 186.
- Screen. Marcus horizontal picking-table. Roberts and Schaefer Company. No. 145,287; July 26; v. 288; p. 825.
- Screen, &c. Rolling window-. Perfected Rolling Window Screen Co. No. 139,602; Feb. 8; v. 283; p. 353.
- Screen-separator machines. W. S. Tyler Company. No. 139,905; Feb. 22; v. 283; p. 755.
- Screen, Window ventilating-. O. A. Hollis. No. 143,982; June 21; v. 287; p. 580.
- Screens and screened-porch inclosures, Window and door. Orange Screen Co. No. 149,194; Dec. 6.
- Screens with picture-projecting apparatus. Argus Enterprises, Inc. No. 145,316; Aug. 2; v. 289; p. 177.
- Screw-extractors. Cleveland Twist Drill Co. No. 144,107; June 21; v. 287; p. 586.
- Screw-threading tools. Union Twist Drill Company. No. 146,387; Sept. 6; v. 290; p. 204.
- Scythes and axes. Dunn Edge Tool Co. No. 145,553; Aug. 9; v. 289; p. 407.
- Sealing paste. Key Boiler Equipment Company. No. 141,584; Apr. 26; v. 285; p. 780.
- Seals, Affixable locking-. Lox Seal Corporation. No. 140,281; Mar. 8; v. 284; p. 372.
- Seals, Embossed gold. Milwaukee Label & Seal Co. No. 144,008; June 21; v. 287; p. 581.
- Searchlights or spotlights, Vehicle. Brilliant Search Light Mfg. Co. No. 142,188; May 3; v. 286; p. 192.
- Seasonings for improving soups, &c. Maggi Co. Nos. 149,997-8; Dec. 27.
- Seats, Toilet-. Com-Bah Fibroid Company. No. 147,571; Oct. 25.
- Seed. J. Chas. McCullough Seed Company. Nos. 140,167-8; Mar. 8; v. 284; p. 366.
- Seed and seed-grain, Field-. Magill & Co. No. 143,255; May 24; v. 286; p. 857.
- Seed, Clover-. Alabama Annual White Sweet Clover Seed Growers Association. No. 146,553; Sept. 13; v. 290; p. 421.
- Seed, Cotton-. R. L. Bennett & Sons. No. 147,723; Oct. 25.
- Seed, Cotton-. E. Kasch. Nos. 140,043-4; Mar. 1; v. 284; p. 177.
- Seed, Field-. D. D. Simmons. No. 146,868; Sept. 20; v. 290; p. 637.
- Seed, Garden-. Northrup, King & Co. No. 145,425; Aug. 2; v. 289; p. 180.
- Seed, Timothy-. H. E. Conklin. No. 145,064; July 26; v. 288; p. 812.
- Seeds. Geo. P. Sexauer & Son. No. 147,735; Oct. 25.
- Seeds. R. Haughton. No. 138,636; Jan. 4; v. 282; p. 187.
- Seeds and horses. R. Haughton. No. 138,635; Jan. 4; v. 282; p. 187.
- Seeds, bulbs, and nursery-stock. Germain Seed and Plant Company. No. 143,803; June 7; v. 287; p. 191.
- Seeds, Field-. D. D. Simmons. No. 148,261; Nov. 8.
- Seeds, Field and garden. J. Bolgiano & Son. No. 138,753; Jan. 4; v. 282; p. 191.
- Seeds, Field and grain. T. C. Power Company. No. 140,993; Mar. 29; v. 284; p. 949.
- Seeds, Field, clover, and grass. Milwaukee Seed Co. No. 143,095; May 24; v. 286; p. 848.
- Seeds, Field, vegetable, and flower. Garden Seed Company. No. 143,343; May 31; v. 286; p. 1049.
- Seeds, Flower, garden, and vegetable. May Seed & Nursery Co. No. 140,483; Mar. 15; v. 284; p. 584.
- Seeds, Flower, vegetable, and field. Griswold Seed & Nursery Co. No. 141,567; Apr. 26; v. 285; p. 780.
- Seeds, Garden and field. R. B. Buchanan. No. 140,574; Mar. 22; v. 284; p. 744.
- Seeds, Garden, field, and flower. John A. Salzer Seed Co. No. 143,158; May 24; v. 286; p. 850.
- Seeds, Grass and garden. Emery-Scott Seed Company. No. 143,942; June 21; v. 287; p. 579.
- Seeds, Lawn. C. E. Kendel. Nos. 143,809-10; June 7; v. 287; p. 191.
- Seeds, Lawn-grass. J. O. Johnson. No. 146,651; Sept. 13; v. 290; p. 428.
- Seeds, Lawn-grass. J. O. Johnson. No. 149,584; Dec. 13.
- Seeds, shrubs, plants, trees. W. B. Rosevear, Jr. No. 142,735; May 17; v. 286; p. 633.
- Seesaws. Universal Wood Products Company. No. 139,962; Feb. 22; v. 283; p. 761.
- Separating-machines. Williams Patent Crusher & Pulverizer Co. No. 140,471; Mar. 15; v. 284; p. 584.
- Separators, Centrifugal. Empire Cream Separator Company. No. 149,374; Dec. 13.
- Separators, milk-clarifiers, emulsifiers, &c. Milk and whey. Sharples Separator Company. No. 140,436; Mar. 15; v. 284; p. 583.
- Serge and woollens in the piece. H. Alt. No. 139,750; Feb. 22; v. 283; p. 751.
- Serges in the piece. Hecht & Mendes. No. 149,104; Dec. 6.
- Serge in the piece, Cotton. Pacific Mills. No. 148,911; Nov. 29.
- Serge in the piece, Cotton. Sears, Roebuck and Co. No. 144,925; July 19; v. 288; p. 622.
- Serge piece goods. Schlang & Co. No. 143,739; June 7; v. 287; p. 187.
- Serges. H. Alt. No. 141,306; Apr. 19; v. 285; p. 565.
- Service-ring for pyramiding plates, &c., for hotels, &c. Zoria Banquetier Co. No. 148,323; Nov. 8.
- Service-wagons, buffers, bumpers, wheels, &c. Jarvis and Jarvis. No. 145,389; Aug. 2; v. 289; p. 179.
- Sewing, fur-beating, and cloth-cutting machines and parts thereof, and machine-needles. Frederick Osann Company. No. 149,771; Dec. 20.
- Sewing-machines. Domestic Sewing Machine Co. No. 147,207; Oct. 4.
- Sewing machines. Certain. American Blind Stitch Machine Co. No. 147,193; Oct. 4.
- Shade-cloth. Interstate Shade Cloth Co. No. 146,039; Aug. 23; v. 289; p. 792.
- Shade-cloth. Interstate Shade Cloth Co. No. 149,120; Dec. 6.
- Shade-cloth. Interstate Shade Cloth Co. No. 149,960; Dec. 27.
- Shade-cloth. Talbert-Whitmore Company. No. 141,692; Apr. 26; v. 285; p. 783.



*Alphabetical list of trade-marks—Continued.*

- Shade-cloth, Holland. Interstate Shade Cloth Co. Nos. 145,269-70; July 26; v. 288; p. 822.
- Shade cloths, Window-. Pabst & Company. No. 142,686; May 17; v. 286; p. 631.
- Shade cloths, Window-. Pabst & Company. No. 143,127; May 24; v. 286; p. 849.
- Shades of glazed fabric. Eastern Art Shop. No. 149,039; Dec. 6.
- Shampoo. Harral Soap Co. No. 149,098; Dec. 6.
- Shampoo. E. L. Patch Co. No. 142,082; May 3; v. 286; p. 189.
- Shampoo. Shuptrine Company. No. 139,035; Jan. 18; v. 282; p. 556.
- Shampoo. E. E. Whiteley. No. 144,496; July 5; v. 288; p. 196.
- Shampoo. Wildroot Co. No. 150,178; Dec. 27.
- Shampoo and dandruff-remover. W. F. Linse. No. 148,685; Nov. 22.
- Shampoo and hair tonic. H. H. Mather. No. 149,594; Dec. 13.
- Shampoo, Henna. Philo Hay Company. No. 146,332; Sept. 6; v. 290; p. 202.
- Shampoo, Liquid. La France Laboratories. No. 147,124; Oct. 4.
- Shampoo liquid and jelly. Vosburgh (Inc.). No. 139,047; Jan. 18; v. 282; p. 556.
- Shampoo preparation. Seligman and Latz. No. 146,500; Sept. 6; v. 290; p. 215.
- Shampoo, toilet powder and cream. Graham Bros. Soap Company. No. 146,753; Sept. 20; v. 290; p. 633.
- Shampoos. Julius Panly, Incorporated. No. 141,637; Apr. 26; v. 285; p. 782.
- Shampoos and disinfectants. H. J. Kline. No. 147,121; Oct. 4.
- Shampooing preparation. J. L. Hopkins & Co. No. 147,858; Nov. 1.
- Shampooing preparation. L. E. A. Stroud. No. 145,016; July 19; v. 288; p. 620.
- Sharpeners, Pencil-. George B. Graff Company. No. 146,575; Sept. 13; v. 290; p. 421.
- Sharpening scissors, Devices for mechanically. B. Carlisle. No. 143,297; May 31; v. 286; p. 1047.
- Shaving-cream. Citizens' Wholesale Supply Company. No. 143,303; May 31; v. 286; p. 1048.
- Shaving-cream. Kream-Eze Company. No. 142,881; May 17; v. 286; p. 640.
- Shaving-cream, hard-water soap. Co-Operative Drug Company. No. 141,101; Apr. 12; v. 285; p. 380.
- Shaving-sticks. J. B. Williams Company. No. 142,396; May 10; v. 286; p. 411.
- Shears and scissors. Clayton Mfg. Co. No. 146,198; Sept. 6; v. 290; p. 198.
- Shears, Sheep, mule, grass, and pruning. W. G. Heimerdinger. No. 147,620; Oct. 25.
- Sheep and cattle. W. S. Martin. No. 146,292; Sept. 6; v. 290; p. 201.
- Sheeting, sheets, and pillow-cases. Marshall Field & Company. No. 147,356; Oct. 11.
- Sheeting, sheets, pillow-cases, cotton. Miller & Hadley Company. No. 150,009; Dec. 27.
- Sheetings. Bence Exporting and Importing Co. No. 149,639; Dec. 20.
- Sheetings. Cowpens Mills. No. 139,513; Feb. 8; v. 283; p. 350.
- Sheetings. Marshall Field & Company. No. 141,775; Apr. 26; v. 285; p. 790.
- Sheetings and drills in the piece. Gray, Piedmont Mfg. Co. No. 139,369; Feb. 1; v. 283; p. 171.
- Sheetings, drills, and flannels in the piece. Cotton. Indian Head Mills of Ala. No. 149,314; Dec. 6.
- Sheets and pillow-cases. Jordan Marsh Company. No. 139,331; Feb. 1; v. 283; p. 170.
- Sheets and pillow-cases. Marshall Field & Company. No. 143,814; June 7; v. 287; p. 192.
- Sheets and pillow-cases. Marshall Field & Company. Nos. 144,003-4; June 21; v. 287; p. 531.
- Sheets and pillow-cases. Naumkeag Steam Cotton Co. No. 143,860; June 14; v. 287; p. 401.
- Sheets and pillow-cases. Naumkeag Steam Cotton Co. Nos. 143,862-3; June 14; v. 287; p. 401.
- Sheets and slates for building purposes. N. V. Eerste Nederlandsche Fabriek van Asbest-Cementplaten. No. 144,754; July 19; v. 288; p. 617.
- Sheets, pillow-cases, &c. Marshall Field & Company. No. 141,773; Apr. 26; v. 285; p. 789.
- Sheets, pillow cases, and cotton goods in the piece. Erwin Cotton Mills Co. No. 143,331; May 31; v. 286; p. 1048.
- Sheets, pillow-cases, and cotton piece goods. Naumkeag Steam Cotton Co. No. 145,002; July 19; v. 288; p. 627.
- Sheets, pillow-cases, and sheeting. Marshall Field & Company. No. 144,847; July 19; v. 288; p. 620.
- Sheets, pillow-cases, cotton piece goods. Erwin Cotton Mills Co. No. 142,202; May 3; v. 286; p. 192.
- Shells, blasting caps and cartridges, &c. Shot-. Western Cartridge Company. No. 139,426; Feb. 1; v. 283; p. 173.
- Shells. Crushed oyster-. Torsch Packing Co. No. 147,888; Nov. 1.
- Shells, toggle-bolts, &c. Expansion-. Paine Company. No. 145,282; July 26; v. 288; p. 824.
- Shelving, locker-cabinets, &c. Allsteelquip Company. No. 143,780; June 7; v. 287; p. 189.
- Shields, Dress-. Brooklyn Shield & Rubber Company. No. 138,586; Jan. 4; v. 282; p. 186.
- Shingles. Chinook Lumber & Shingle Co. No. 139,069; Jan. 18; v. 282; p. 558.
- Shingles. Reynolds Company. No. 149,213; Dec. 6.
- Shingles. Shull Lumber & Shingle Co. No. 148,739; Nov. 22.
- Shingles and slates. National Asbestos Mfg. Co. No. 145,754; Aug. 16; v. 289; p. 596.
- Shingles, roofing-tile, &c. Vulcanite Roofing Company. No. 143,764; June 7; v. 287; p. 188.
- Shingles, roofing-tile, &c. Vulcanite Roofing Company. Nos. 144,292-3; June 28; v. 287; p. 777.
- Shingles, roofing tile and slabs, &c. Vulcanite Roofing Company. Nos. 145,851-2; Aug. 16; v. 289; p. 599.
- Shingles, Wooden. Krauss Bros. Lumber Co. No. 143,381; May 31; v. 286; p. 1050.
- Shingles, Wooden. Krauss Bros. Lumber Co. No. 146,794; Sept. 20; v. 290; p. 635.
- Shirtings in the piece, Silk. M. Bornstein & Sons. No. 146,181; Sept. 6; v. 290; p. 198.
- Shirts. Cluett, Peabody & Co. Nos. 140,774-5; Mar. 29; v. 284; p. 942.
- Shirts. Hilker-Wiechers Mfg. Co. No. 139,814; Feb. 22; v. 283; p. 753.
- Shirts. H. Saltzman. No. 148,529; Nov. 15.
- Shirts. C. Surbin & Co. No. 141,240; Apr. 12; v. 285; p. 384.
- Shirts. S. Zalis. No. 146,919; Sept. 20; v. 290; p. 639.
- Shirts and blouses, Boys'. Oelbaum Bros. & Bauer. No. 148,909; Nov. 29.
- Shirts and boys' blouses, Youths'. L. S. Kirshenbaum. No. 141,397; Apr. 19; v. 285; p. 567.
- Shirts and collars. Hall, Hartwell & Co. Nos. 141,371-2; Apr. 19; v. 285; p. 567.
- Shirts and collars, Men's and boys'. Argonne Shirt Company. No. 140,735; Mar. 29; v. 284; p. 941.
- Shirts and overalls. Spaide Shirt Company. No. 143,178; May 24; v. 286; p. 851.
- Shirts and pajamas, Negligée. Berkshire Shirt Co. No. 142,239; May 10; v. 286; p. 403.
- Shirts, blouses, washsuits, &c., Boys'. Kuh Brothers. No. 147,345; Oct. 11.
- Shirts, coats, vests, pants, Woolen outside. Pontiac Manufacturing Company. No. 146,846; Sept. 20; v. 290; p. 636.
- Shirts, collars, and pajamas. Manhattan Shirt Co. No. 140,890; Mar. 29; v. 284; p. 946.
- Shirts, Dress and negligée. Marcus-Casper Corp. No. 143,075; May 24; v. 286; p. 848.
- Shirts, Dress, negligée, and work. L. Silfin. No. 149,237; Dec. 6.
- Shirts for men. Commodore Shirt Co. No. 140,581; Mar. 22; v. 284; p. 744.
- Shirts, Men's. Charles Broadway Rouss Inc. No. 139,698; Feb. 8; v. 283; p. 358.
- Shirts, Men's and boys'. H. Berger. No. 144,698; July 19; v. 288; p. 615.
- Shirts, Men's and boys' dress and negligée. Phillips-Jones Corporation. No. 140,667; Mar. 22; v. 284; p. 747.
- Shirts, Men's dress-. Le Roy Shirt Co. No. 144,127; June 21; v. 287; p. 588.
- Shirts, Men's dress-. Lord & Taylor. No. 148,145; Nov. 8.
- Shirts, Men's dress-. Lord & Taylor. No. 148,468; Nov. 15.
- Shirts, Men's dress and negligée. Gerson & Goodman. No. 138,625; Jan. 4; v. 282; p. 187.
- Shirts, Men's flannel, work, and dress. Bob & Baskind. No. 146,179; Sept. 6; v. 290; p. 197.
- Shirts, Men's negligée. Tutelman Brothers. No. 141,451; Apr. 19; v. 285; p. 569.
- Shirts, Men's silk. M. Auerbach & Sons. No. 143,900; June 21; v. 287; p. 577.
- Shirts, Men's silk. M. Auerbach & Sons. No. 144,693; July 19; v. 288; p. 615.
- Shirts, Men's silk and cotton dress or work. B. Chipman. No. 138,596; Jan. 4; v. 282; p. 186.
- Shirts, Outer and dress. William Abrams. No. 147,834; Nov. 1.
- Shirts, pajamas, collars, &c. Alperin, Strauss & Co. No. 141,072; Apr. 12; v. 285; p. 379.
- Shirts, pajamas, collars, &c., Dress, negligée, and work. Alperin, Strauss & Co. No. 140,727; Mar. 29; v. 284; p. 941.
- Shirts, pajamas, nightshirts. Broom & Newman. No. 142,458; May 17; v. 286; p. 625.
- Shirts, pants, and overalls. Fisher Brothers. No. 142,530; May 17; v. 286; p. 627.
- Shirts, Work-. Liberty Shirt Mills. No. 143,672; June 7; v. 287; p. 185.
- Shirts, Work-. Reliance Manufacturing Company. No. 139,375; Feb. 1; v. 283; p. 171.
- Shirts, Work-. Reliance Manufacturing Company. No. 142,105; May 3; v. 286; p. 190.
- Shirts, Work-. Reliance Manufacturing Company. No. 148,941; Nov. 29.
- Shirtwaists and blouses. Alfred Beer Co. Inc. No. 144,304; June 28; v. 287; p. 779.
- Shirtwaists and blouses, Ladies'. O. F. Grab & Co. No. 145,678; Aug. 16; v. 289; p. 593.
- Shirtwaists, Ladies'. Diana Waist Co. No. 142,256; May 10; v. 286; p. 404.
- Shirtwaists, Ladies'. P. Lesser. No. 148,134; Nov. 8.
- Shock-absorbers. Hayes Shock Absorber Sales Co. No. 140,398; Mar. 15; v. 284; p. 581.



*Alphabetical list of trade-marks—Continued.*

- Shock-absorbers, foot-rests, running-board supports, &c. Continental Auto Parts Company. No. 139,927; Feb. 22; v. 283; p. 758.
- Shock-absorbers for vehicles. John Warren Watson Company. No. 143,508; May 31; v. 286; p. 1054.
- Shock-absorbers for vehicles. National Steel Products Company. No. 149,181; Dec. 6.
- Shock-absorbers, Pneumatic. Seibel Air-Spring Company. No. 144,468; July 5; v. 283; p. 195.
- Shock-absorbers, Vehicle. Duplex Shock Absorber Corp. No. 149,038; Dec. 6.
- Shoe and leather polish. G. W. Baker. No. 149,635; Dec. 20.
- Shoe-cloth in the piece. Farnsworth, Hoyt Co. No. 139,295; Feb. 1; v. 283; p. 169.
- Shoe-dressing. A. L. Bauer. No. 144,342; July 5; v. 288; p. 191.
- Shoe-dressing. Devonde Laboratories. No. 147,981; Nov. 8.
- Shoe-dressing. P. Thoreson. No. 143,490; May 31; v. 286; p. 1053.
- Shoe-dressing. Whittemore Brothers, Corporation. No. 146,524; Sept. 6; v. 290; p. 218.
- Shoe-dressing, cream, and polishing-paste. Falcon Manufacturing Company. No. 144,757; July 19; v. 288; p. 617.
- Shoe-enamel, Liquid. Cinderella Heel Corporation. No. 147,958; Nov. 8.
- Shoe-horns, button-hooks, glove-stretchers, combs. Fiberloid Corporation. No. 143,948; June 21; v. 287; p. 579.
- Shoe-ink. Chas. M. Hatcher Mfg. Co. No. 147,326; Oct. 11.
- Shoe-laces. M. M. Rhodes & Sons Co. No. 141,821; Apr. 26; v. 285; p. 784.
- Shoe laces and horns, button-hooks. Dorothy Dodd Shoe Company. No. 142,503; May 17; v. 286; p. 626.
- Shoe laces and horns, button-hooks. Thomas G. Plant Company. No. 142,708; May 7; v. 286; p. 632.
- Shoe machinery, Certain. Victor Shoe Machinery Company. No. 146,618; Sept. 13; v. 290; p. 423.
- Shoe machinery, Certain. Victor Shoe Machinery Company. No. 147,426; Oct. 11.
- Shoe machines and tools, Certain. United Shoe Machinery Corporation. No. 149,745; Dec. 20.
- Shoe parts. A. C. Lawrence Leather Co. No. 143,384; May 31; v. 286; p. 1050.
- Shoe-polish. W. M. Gibbs. No. 149,929; Dec. 27.
- Shoe-polish. W. Henderson. No. 147,777; Nov. 1.
- Shoe-polish. G. J. Pelletiere. No. 145,174; July 26; v. 288; p. 815.
- Shoe-polish and hat-cleaning material. N. Piccoli. No. 141,200; Apr. 12; v. 285; p. 383.
- Shoe polish, Leather. Frank Jackson Co. No. 150,202; Dec. 27.
- Shoe-polish, sole and heel dressing, &c. Peppas & Alex Company. No. 140,516; Mar. 15; v. 284; p. 585.
- Shoe-polishes. Columbus Polish Mfg. Co. No. 144,728; July 19; v. 288; p. 616.
- Shoe-polishes. L. Graziadei. No. 141,365; Apr. 19; v. 285; p. 566.
- Shoe-polishes. Shu-Milk Products Corporation. No. 150,110; Dec. 27.
- Shoe polishes and dressings. Vassilatos Bros. No. 142,816; May 17; v. 286; p. 635.
- Shoe polishes and dressing. G. W. Wrennick. No. 143,516; May 31; v. 286; p. 1054.
- Shoe polishers and brushes, brushes and dusters for phonographic records. W. R. Lee. No. 146,799; Sept. 20; v. 290; p. 635.
- Shoe-repairs. E. V. Shivers. No. 148,259; Nov. 8.
- Shoe-shining machines. M. Bloomstein. No. 140,755; Mar. 29; v. 284; p. 942.
- Shoe-tips from wear, Metal plates to protect. Tiptoes Corporation. Nos. 145,235-6; July 26; v. 288; p. 817.
- Shoes. I. Blyn & Sons. No. 138,777; Jan. 11; v. 282; p. 375.
- Shoes. Cuetara Brothers. No. 139,282; Feb. 1; v. 283; p. 168.
- Shoes. Dunn & McCarthy. No. 142,510; May 17; v. 286; p. 626.
- Shoes. Graham-Bumgarner Company. Nos. 141,363-4; Apr. 19; v. 285; p. 566.
- Shoes. W. H. Griffin Company. No. 144,319; June 28; v. 287; p. 780.
- Shoes. A. Hass. No. 149,779; Dec. 20.
- Shoes. Holders Company. No. 147,331; Oct. 11.
- Shoes. Kiddy Shoe Service. No. 142,283; May 10; v. 286; p. 404.
- Shoes. Krohn-Fechheimer Company. No. 142,663; May 17; v. 286; p. 631.
- Shoes. Martinez Brothers. No. 140,285; Mar. 8; v. 284; p. 372.
- Shoes. I. Miller Sons & Co. Inc. No. 143,094; May 24; v. 286; p. 848.
- Shoes. Morse & Burt Co. No. 146,819; Sept. 20; v. 290; p. 636.
- Shoes. Northern Jobbing Company. No. 149,187; Dec. 6.
- Shoes. Pedigo-Weber Shoe Co. No. 144,258; June 28; v. 287; p. 776.
- Shoes. Queen City Turn Shoe Company. No. 145,574; Aug. 9; v. 289; p. 408.
- Shoes. B. F. Reynolds. No. 149,212; Dec. 6.
- Shoes. F. Roth. No. 140,672; Mar. 22; v. 284; p. 747.
- Shoes. Shaft-Pierce Shoe Co. No. 142,898; May 17; v. 286; p. 642.
- Shoes. Sherwood Shoe Company. No. 149,802; Dec. 20.
- Shoes. J. P. Smith Shoe Co. Nos. 148,711-13; Nov. 22.
- Shoes. J. P. Smith Shoe Co. No. 149,329; Dec. 6.
- Shoes. W. Steinhardt. No. 146,514; Sept. 6; v. 290; p. 216.
- Shoes. Truitt Brothers. No. 142,798; May 17; v. 286; p. 635.
- Shoes. N. P. Turnblad. No. 145,841; Aug. 16; v. 289; p. 598.
- Shoes. United Drug Company. No. 146,382; Sept. 6; v. 290; p. 204.
- Shoes. E. A. Weil Company. No. 147,717; Oct. 25.
- Shoes and slippers, Cloth. Outing Shoe Company. No. 149,196; Dec. 6.
- Shoes and slippers, Felt. B. E. Bresee. No. 149,004; Dec. 6.
- Shoes and boots. The Excelsior Shoe Company. No. 140,592; Mar. 22; v. 284; p. 744.
- Shoes and boots. Excelsior Shoe Company. No. 141,545; Apr. 26; v. 285; p. 779.
- Shoes and boots, Leather. F. P. Kirkendall & Co. No. 141,396; Apr. 19; v. 285; p. 567.
- Shoes and gloves. Hirth Krause Company. No. 143,043; May 24; v. 286; p. 847.
- Shoes and insoles and heels, Leather and fabric. Philadelphia Shoe Repairing Company. No. 142,317; May 10; v. 286; p. 405.
- Shoes and Juliettes, Leather. Lunn & Sweet Company. No. 143,676; June 7; v. 287; p. 185.
- Shoes and oxfords. National Cloak & Suit Co. No. 142,632; May 17; v. 286; p. 630.
- Shoes and slippers. Wichert & Gardiner. No. 146,525; Sept. 6; v. 290; p. 218.
- Shoes and slippers. William Breilich & Sons. No. 148,423; Nov. 15.
- Shoes and slippers made of fabric, Infants'. Tweedie Footwear Corporation. No. 142,341; May 10; v. 286; p. 406.
- Shoes and sport-shoes. F. B. Harris. No. 147,219; Oct. 4.
- Shoes, Bathing-. W. Greilich & Sons, Inc. No. 143,028; May 24; v. 286; p. 846.
- Shoes, boots, and slippers. Buckingham & Hecht. No. 143,563; June 7; v. 287; p. 182.
- Shoes, Boys'. Neeah Shoe Company. No. 143,698; June 7; v. 287; p. 186.
- Shoes, Canvas rubber soled. Beacon Falls Rubber Shoe Co. No. 141,733; Apr. 26; v. 285; p. 786.
- Shoes, Children's and misses'. J. Edwards & Co. No. 146,730; Sept. 20; v. 290; p. 633.
- Shoes for boys and girls. Brown Shoe Company. No. 145,327; Aug. 2; v. 289; p. 177.
- Shoes for children and infants. J. Miller and Sons. No. 145,747; Aug. 16; v. 289; p. 595.
- Shoes for misses and children. Craddock Terry Company. No. 138,600; Jan. 4; v. 282; p. 186.
- Shoes for women, misses, and children. I. Miller & Sons. No. 142,044; May 3; v. 286; p. 188.
- Shoes for women, misses, and children, Leather. C and E Shoe Company. No. 140,344; Mar. 15; v. 284; p. 580.
- Shoes, Infants'. American Baby Shoe Co. No. 142,228; May 10; v. 286; p. 403.
- Shoes, Infants' and children's. W. Y. Miller. No. 147,360; Oct. 11.
- Shoes, Ladies' and misses' leather. Krippendorf, Dittmann Co. No. 147,866; Nov. 1.
- Shoes, Ladies' and misses' leather. Krohn-Fechheimer Co. No. 144,323; June 28; v. 287; p. 781.
- Shoes, Ladies' and misses' leather. Krohn-Fechheimer Co. No. 147,628; Oct. 25.
- Shoes, Leather. H. E. Adams. No. 147,255; Oct. 11.
- Shoes, Leather. G. Burkman. No. 145,620; Aug. 16; v. 289; p. 592.
- Shoes, Leather. Craddock-Terry Company. No. 148,383; Nov. 15.
- Shoes, Leather. H. E. Davis Co. No. 141,531; Apr. 26; v. 285; p. 779.
- Shoes, Leather-. H. E. Davis Co. No. 145,069; July 26; v. 288; p. 812.
- Shoes, Leather. Donald Shoe Company. No. 147,766; Nov. 1.
- Shoes, Leather. Edmonds Shoe Company. Nos. 149,040-2; Dec. 6.
- Shoes, Leather. Elliot Shoe Co. No. 143,941; June 21; v. 287; p. 579.
- Shoes, Leather. Fair. Nos. 149,767-8; Dec. 20.
- Shoes, Leather. Frank & Hyman. No. 139,298; Feb. 1; v. 283; p. 169.
- Shoes, Leather. Jos. Strasburger Co. No. 141,444; Apr. 19; v. 285; p. 569.
- Shoes, Leather. F. Mayer Boot & Shoe Co. No. 140,713; Mar. 22; v. 284; p. 751.
- Shoes, Leather. William Lane, Inc. No. 148,883; Nov. 29.
- Shoes, Leather, cloth, or canvas. Brauer Bros. Shoe Company. No. 144,707; July 19; v. 288; p. 616.
- Shoes, Leather, rubber, &c. Bluff City Shoe Company. No. 142,937; May 24; v. 286; p. 844.



*Alphabetical list of trade-marks—Continued.*

- Shoes, Leather, rubber, &c. International Shoe Company. No. 148,869; Nov. 29.
- Shoes made of canvas and leather and combination of both. Truitt Brothers. No. 143,759; June 7; v. 287; p. 188.
- Shoes made of leather. International Shoe Co. No. 143,651; June 7; v. 287; p. 184.
- Shoes made of leather, &c., Children's. Dunlap Shoe Co. No. 138,899; Jan. 11; v. 282; p. 380.
- Shoes made wholly or in part of leather. Cotter Shoe Co. No. 149,024; Dec. 6.
- Shoes, Men's. Brown Shoe Company. No. 145,050; July 26; v. 288; p. 812.
- Shoes, Men's and boys' leather. Hamilton-Brown Shoe Company. No. 147,324; Oct. 11.
- Shoes, Men's leather. Rogers Peet Company. No. 142,316; May 10; v. 286; p. 405.
- Shoes of leather and of leather and fabric. French American Import Co. No. 148,834; Nov. 29.
- Shoes of leather, fabric, and combination. Morse & Burt Co. No. 143,405; May 31; v. 286; p. 1051.
- Shoes of leather or a combination of leather and fabric. J. & T. Cousins Co. No. 143,925; June 21; v. 287; p. 578.
- Shoes of leather, rubber, and fabric. Buckingham & Hecht. No. 143,915; June 21; v. 287; p. 578.
- Shoes, oxfords, and sandals. E. J. Ramsey. No. 142,098; May 3; v. 286; p. 189.
- Shoes, pumps, slippers, Women's. Rialto Shoe Co. No. 145,796; Aug. 16; v. 289; p. 597.
- Shoes, slippers, and booties. Sheepskin, kid, &c. A. L. Day. No. 144,313; June 28; v. 287; p. 780.
- Shoes, slippers, and moccasins, infants' and children's. Locke Shoe Company. No. 148,465; Nov. 15.
- Shoes, slippers, and oxfords. L. B. Evans' Sons Company. No. 149,766; Dec. 20.
- Shoes, Wear-plates for. Betts Sole Protector Company. No. 147,476; Oct. 18.
- Shoes, Women's. Brown Shoe Company. No. 140,337; Mar. 15; v. 284; p. 580.
- Shoes, Women's. Brown Shoe Company. No. 143,562; June 7; v. 287; p. 182.
- Shoes, Women's and misses'. Barke, Gibbon Company. No. 147,836; Nov. 1.
- Shooting device called sling-shot. A. R. De Pass. No. 142,912; May 24; v. 286; p. 843.
- Shores, Adjustable. H. W. Roos. No. 149,493; Dec. 13.
- Shortening. Eney Shortening Co. No. 142,515; May 17; v. 286; p. 626.
- Shortening. Eney Shortening Co. No. 142,995; May 24; v. 286; p. 845.
- Shortening compound. Chapman & Smith Company. No. 147,081; Oct. 4.
- Shortening, Vegetable. Nucua Butter Company. No. 146,827; Sept. 20; v. 290; p. 636.
- Shotguns, pistols, rifles, &c. Auto-Ordinance Corporation. No. 149,828; Dec. 27.
- Shovels and scoops. Pittsburgh Shovel Company. No. 143,137; May 24; v. 286; p. 850.
- Shovels and spades. Shapleigh Hardware Company. No. 147,687; Oct. 25.
- Shovels, dredges, ditchers, &c. Marion Steam Shovel Co. No. 141,772; Apr. 26; v. 285; p. 789.
- Shovels, spades, scoops, &c. The Wyoming Shovel Works. No. 138,887; Jan. 11; v. 282; p. 378.
- Shovels, spades, scoops, and drainage-tools. Wood Shovel & Tool Company. No. 148,320; Nov. 8.
- Show-cases, Candy. Quincy Show Case Works. No. 139,694; Feb. 8; v. 283; p. 358.
- Showcases. M. L. Himmel & Son. No. 149,405; Dec. 13.
- Shrimp, Dried. Blum & Bergeron. No. 140,559; Mar. 22; v. 284; p. 743.
- Shuttles, shuttle-pegs, picking band-pegs, creel-pegs, &c. Maatschappij Ago. No. 149,442; Dec. 13.
- Sickles. J. Ogden. No. 138,844; Jan. 11; v. 282; p. 377.
- Sign, Electric. Smith-Hecht Co. No. 148,925; Nov. 29.
- Signs, Advertising. Animated Advertising Corporation. No. 138,559; Jan. 4; v. 282; p. 185.
- Signs, Electrically-illuminated. Flexlume Sign Company. No. 148,025; Nov. 8.
- Signs made of wood or metal. H. L. Nielsen. No. 143,414; May 31; v. 286; p. 1051.
- Signs, Photographic and stenciled. The Copymakers Corporation. No. 142,969; May 24; v. 286; p. 845.
- Signs used as road-markers. F. W. Hockaday. No. 141,385; Apr. 19; v. 285; p. 567.
- Signs used as road-markers, Metal. F. W. Hockaday. No. 140,830; Mar. 29; v. 284; p. 949.
- Signals and railway-switches and parts thereof, &c. Block-Signal Accessories Corporation. No. 149,236; Dec. 6.
- Silk and cotton mixture piece goods. Nathan and Cohen Co. No. 139,357; Feb. 1; v. 283; p. 170.
- Silk and cotton piece goods. S. M. Levor & Co. No. 144,830; July 19; v. 288; p. 619.
- Silk and cotton piece goods. Seekenep Silk Co. No. 142,755; May 17; v. 286; p. 633.
- Silk and jersey in the piece, Mixture of. Jacob Miller Sons & Co. No. 148,480; Nov. 15.
- Silk and satin goods in the piece. William Skinner & Sons. No. 146,363; Sept. 6; v. 290; p. 203.
- Silk and satin goods in the piece. William Skinner & Sons. No. 146,364; Sept. 6; v. 290; p. 203.
- Silk and silk and wool mixture piece goods. Hess, Goldsmith & Co. No. 143,364; May 31; v. 286; p. 1049.
- Silk and silk manufactures, Machinery used in preparation and treatment of. Scranton Silk Machine Company. No. 149,499; Dec. 13.
- Silk and silk-mixture fabrics in the piece. Cheney Brothers. No. 143,920; June 21; v. 287; p. 578.
- Silk and silk-mixture fabrics in the piece. Wechsler Barber Silk Co. No. 144,696; July 19; v. 288; p. 615.
- Silk and silk-mixture fabrics in the piece. Wechsler Barber Silk Co. No. 148,720; Nov. 22.
- Silk cloth in the piece. Vanity Fair Silk Mills. No. 139,422; Feb. 1; v. 283; p. 172.
- Silk, cotton, and woolen piece goods, &c. J. A. Migel. No. 144,200; June 28; v. 287; p. 774.
- Silk, cotton, and woolen piece goods and combinations thereof. J. A. Migel, Inc. No. 144,242; June 28; v. 287; p. 775.
- Silk, cotton, and woolen piece goods and the combinations thereof. J. A. Migel, Inc. No. 144,861; July 19; v. 288; p. 620.
- Silk, cotton, &c., piece goods. Haas Brothers Fabrics Corporation. Nos. 139,806-7; Feb. 22; v. 283; p. 732.
- Silk, cotton, &c., piece goods. H. B. Lederer Co. No. 142,007; May 3; v. 286; p. 186.
- Silk, cotton, &c., piece goods. George J. Quinn & Company. No. 143,517; Nov. 15.
- Silk, cotton, &c., piece goods. Realskin Fabrics Corporation. No. 146,498; Sept. 6; v. 290; p. 215.
- Silk crepe piece goods, All-. A. S. Rosenthal Company. No. 145,447; Aug. 2; v. 289; p. 151.
- Silk fabric in the bolt or piece, Woven. American Home Economics Association. No. 143,886; June 21; v. 287; p. 577.
- Silk goods and mixtures of silk and linen in the piece. Jacob Miller Sons & Co. No. 140,635; Mar. 22; v. 284; p. 746.
- Silk goods and mixtures of silk and linen in the piece. J. Miller Sons & Co. No. 143,092; May 24; v. 286; p. 848.
- Silk goods in the piece. Bently & Twohey Silk Company. No. 146,688; Sept. 20; v. 290; p. 632.
- Silk goods in the piece. D. R. Gurlich, Inc. No. 139,990; Mar. 1; v. 284; p. 173.
- Silk goods in the piece. Henri Gutmann Silks Corporation. No. 147,778; Nov. 1.
- Silk goods in the piece. Jacob Miller Sons & Co. No. 140,631; Mar. 22; v. 284; p. 745.
- Silk goods in the piece. Jacob Miller Sons & Co. No. 140,633; Mar. 22; v. 284; p. 745.
- Silk goods in the piece. Marshall Field & Company. No. 145,415; Aug. 2; v. 289; p. 180.
- Silk goods in the piece. J. A. Migel Inc. No. 147,795; Nov. 1.
- Silk goods in the piece. J. A. Migel Inc. No. 149,166; Dec. 6.
- Silk hair-nets. Fuld, Traube & Co. No. 142,537; May 17; v. 286; p. 627.
- Silk in the piece. Jacob Miller Sons & Co. No. 140,639; Mar. 22; v. 284; p. 746.
- Silk in the piece. Jansen & Pretzfeld. No. 144,813; July 19; v. 288; p. 619.
- Silk in the piece, Broad. J. A. Migel Inc. No. 149,165; Dec. 6.
- Silk in the piece, Dress-. Jansen and Pretzfeld. No. 142,587; May 17; v. 286; p. 628.
- Silk, linen, and cotton piece goods and combinations thereof. Haas Brothers Fabrics Corporation. No. 143,969; June 21; v. 287; p. 580.
- Silk, linen, &c., piece goods. Haas Brothers Fabrics Corporation. No. 140,270; Mar. 8; v. 284; p. 371.
- Silk, linen, &c., piece goods and combinations thereof. Haas Brothers Fabrics Corporation. No. 142,555; May 17; v. 286; p. 627.
- Silk, linen, woolen, and cotton piece goods, &c. Haas Brothers Fabrics Corporation. No. 143,631; June 7; v. 287; p. 184.
- Silk, linen, woolen, and cotton piece goods and combinations thereof. Haas Brothers Fabrics Corporation. No. 139,315; Feb. 1; v. 283; p. 169.
- Silk, linen, woolen, &c., piece goods. Haas Brothers Fabrics Corporation. Nos. 139,991-2; Mar. 1; v. 284; pp. 173-4.
- Silk piece goods. B. Altman & Co. No. 146,063; Aug. 30; v. 289; p. 1013.
- Silk piece goods. Berfelden Mills. No. 143,908; June 21; v. 287; p. 578.
- Silk piece goods. Bianchini, Férier. No. 147,928; Nov. 8.
- Silk piece goods. Carson Pirie Scott & Co. No. 147,078; Oct. 4.
- Silk piece goods. Coudurier, Fructus & Descher. No. 139,278; Feb. 1; v. 283; p. 168.
- Silk piece goods. Coudurier, Fructus & Descher. No. 139,777; Feb. 22; v. 283; p. 752.
- Silk piece goods. Eastern District Piece Dye Works, Inc. No. 148,822; Nov. 29.
- Silk piece goods. Empire Silk Company. No. 139,792; Feb. 22; v. 283; p. 752.
- Silk piece goods. Golding Fabrics Corporation. No. 149,077; Dec. 6.
- Silk piece goods. Haas Brothers Fabrics Corporation. No. 139,808; Feb. 22; v. 283; p. 753.
- Silk piece goods. Julius Kayser & Co. No. 148,457; Nov. 15.
- Silk piece goods. John H. Meyer Silk Mills Co. No. 144,858; July 19; v. 288; p. 620.



*Alphabetical list of trade-marks—Continued.*

- Silk piece goods. H. R. Mallinson & Co. No. 138,835; Jan. 11; v. 282; p. 377.
- Silk piece goods. H. R. Mallinson & Co. Nos. 140,625-6; Mar. 22; v. 284; p. 745.
- Silk piece goods. H. R. Mallinson & Co. Nos. 142,883-4; May 17; v. 286; p. 640.
- Silk piece goods. H. R. Mallinson & Co. Nos. 145,139-44; July 26; v. 288; p. 814.
- Silk piece goods. H. R. Mallinson & Co. No. 146,115; Aug. 30; v. 289; p. 1014.
- Silk piece goods. H. R. Mallinson & Co. No. 146,118; Aug. 30; v. 289; p. 1015.
- Silk piece goods. H. R. Mallinson & Co. Nos. 146,288-90; Sept. 6; v. 290; p. 201.
- Silk piece goods. H. R. Mallinson & Co. Nos. 146,808-9; Sept. 20; v. 290; p. 635.
- Silk piece goods. H. R. Mallinson & Co. No. 147,791; Nov. 1.
- Silk piece goods. H. R. Mallinson & Co. No. 148,153; Nov. 8.
- Silk piece goods. H. R. Mallinson & Co. No. 148,897; Nov. 29.
- Silk, &c., piece goods. Nonatuck Silk Company. No. 149,712; Dec. 20.
- Silk piece goods. C. Peschier. Nos. 140,518-19; Mar. 15; v. 284; p. 585.
- Silk piece goods. A. S. Rosenthal Co. No. 143,445; May 31; v. 286; p. 1052.
- Silk piece goods. A. S. Rosenthal Company. No. 144,268; June 28; v. 287; p. 776.
- Silk piece goods. R. & H. Simon Co. No. 144,056; June 21; v. 287; p. 582.
- Silk piece goods. Susquehanna Silk Mills. No. 143,187; May 24; v. 286; p. 851.
- Silk piece goods. Susquehanna Silk Mills. No. 143,754; June 7; v. 287; p. 187.
- Silk piece goods. William Hollins & Co. No. 141,141; Apr. 12; v. 285; p. 381.
- Silk piece goods, Broad-. Duplan Silk Corporation. No. 140,369; Mar. 15; v. 284; p. 581.
- Silk piece goods, Broad-. Duplan Silk Corporation. Nos. 145,079-80; July 26; v. 288; p. 812.
- Silk piece goods, Broad-. Duplan Silk Corporation. No. 146,215; Sept. 6; v. 290; p. 199.
- Silk piece goods, Broad-. Duplan Silk Corporation. No. 147,089; Oct. 4.
- Silk piece goods, Broad-. Duplan Silk Corporation. Nos. 148,393-4; Nov. 15.
- Silk, satin, woolen, and cotton voile piece goods. Haas Brothers Fabrics Corporation. No. 139,937; Feb. 22; v. 283; p. 758.
- Silk shirtings in the piece. M. Bornstein & Sons. Nos. 146,557-8; Sept. 13; v. 290; p. 421.
- Silk skirt-braid. Marshall Field & Company. No. 147,793; Nov. 1.
- Silk, Spool-. Gudebrod Bros. Silk Co. No. 146,647; Sept. 13; v. 290; p. 427.
- Silk, Thrown. R. K. Laros Silk Co. No. 142,004; May 3; v. 286; p. 186.
- Silk, Thrown. Tynan Throwing Co. No. 145,471; Aug. 2; v. 289; p. 182.
- Silk, wool, linen, cotton, and china-grass piece goods. Bianchini, Férier. No. 144,702; July 19; v. 288; p. 619.
- Silk, wool, linen, cotton, and china-grass piece goods. Bianchini, Férier. Nos. 148,997-8; Dec. 6.
- Silk, wool, linen, &c., piece goods. Bianchini, Férier. No. 141,870; May 3; v. 286; p. 182.
- Silk, wool, line, &c., piece goods. Coudurier, Fructus et Descher. Nos. 143,575-7; June 7; v. 287; p. 182.
- Silk, woolen, linen, and cotton piece goods. Haas Brothers Fabrics Corporation. Nos. 146,757-8; Sept. 20; v. 290; p. 634.
- Silk, woolen, cotton, and linen fabrics. Haas Brothers Fabrics Corporation. No. 142,554; May 17; v. 286; p. 627.
- Silk, woolen, cotton, and linen piece goods and combinations thereof. Haas Brothers Fabrics Corporation. No. 143,034; May 24; v. 286; p. 847.
- Silk, woolen, &c., piece goods. Haas Brothers Fabrics Corporation. No. 145,105; July 26; v. 288; p. 813.
- Silk, woolen, &c., piece goods. Haas Brothers Fabrics Corporation. No. 146,243; Sept. 6; v. 290; p. 199.
- Silks and silk fabrics in the piece. Denville Silk Co. No. 147,300; Oct. 11.
- Silks, artificial silk and certain mixtures. E. G. Hagedorn. No. 147,617; Oct. 25.
- Silks, cotton and crape textiles in the piece. Ironwarp Silk Mills. No. 148,093; Nov. 8.
- Silks in the bulk and in the piece. National Mercantile Corporation of California. No. 143,109; May 24; v. 286; p. 849.
- Silks in the piece. Jansen & Pretzfeld. No. 146,849; Sept. 20; v. 290; p. 636.
- Silks in the piece. Jansen & Pretzfeld. Nos. 147,782-3; Nov. 1.
- Silks in the piece. I. Sacks & Sons. No. 150,093; Dec. 27.
- Silks in the piece. Stehl Silks Corporation. No. 146,146; Aug. 30; v. 289; p. 1015.
- Silks in the piece, Broad-. D. R. Gurlich, Inc. No. 139,989; Mar. 1; v. 284; p. 173.
- Silks in the piece, Broad-. J. A. Migel, Inc. No. 149,700; Dec. 20.
- Silks in the piece, Broad-. T. J. Mitchell & Co. No. 145,155; July 26; v. 288; p. 815.
- Silks in the piece, High-grade decorative. Cheney Brothers. No. 140,700; Mar. 22; v. 284; p. 749.
- Silks, satins, cotton and linen piece goods, Broad-. Charles R. De Bevoise Co. No. 144,738; July 19; v. 288; p. 616.
- Silks, satins, cottons, &c. Metropolitan Sewing Machine Corporation. No. 143,256; May 24; v. 286; p. 857.
- Silkoline, sateen, scrim, &c. Wyman, Partridge & Co. No. 144,091; June 21; v. 287; p. 583.
- Silos. E. C. Tecktonius. No. 141,814; Apr. 26; v. 285; p. 794.
- Silver and gold polish. Oskamp Jewelry Company. No. 139,691; Feb. 8; v. 283; p. 357.
- Silver and metal polish. G. H. Johnston. No. 142,591; May 17; v. 286; p. 628.
- Silver flat-ware, Certain German-. R. Wallace & Sons Mfg. Co. No. 150,161; Dec. 27.
- Silver-plated flat and hollow ware. Simeon, L., and George H. Rogers Company. No. 148,599; Nov. 15.
- Silver-plated flat and hollow ware. R. Wallace & Sons Mfg. Co. No. 143,877; June 14; v. 287; p. 402.
- Silver-plated flat-ware. International Silver Company. No. 147,780; Nov. 1.
- Silver-plated hollow ware. Van Bergh Silver Plate Co. No. 146,520; Sept. 6; v. 290; p. 217.
- Silver-polish. C. M. Kimball Company. No. 148,108; Nov. 8.
- Silver-polish. Mrs. F. Stewart. No. 147,415; Oct. 11.
- Silverware. Marshall Field & Company. No. 146,536; Sept. 6; v. 290; p. 219.
- Silverware and articles of jewelry, Sterling, plated, flat, and hollow. Bernard Rice's Sons. No. 148,523; Nov. 15.
- Silverware, particularly hollow ware and flat-ware. W. D. Smith Silver Co. No. 148,714; Nov. 22.
- Sink-flushers. W. G. Donald. No. 149,900; Dec. 27.
- Sinks and washtubs. Petrium Sanitary Sink Co. No. 145,176; July 26; v. 288; p. 815.
- Skates. F. MacMillan. No. 146,534; Sept. 6; v. 290; p. 219.
- Skates, Ice and roller. Winchester Repeating Arms Co. No. 149,749; Dec. 20.
- Skin-cleaning material. Oliver Oil-Gas Burner & Machine Company. No. 145,517; Aug. 2; v. 289; p. 186.
- Skin-cream. L. Y. Figueroa & P. S. Waldorf Co. No. 149,052; Dec. 6.
- Skin-lotion. Andrew Jergens Company. No. 148,675; Nov. 22.
- Skins and hides. Bronston Bros. & Co. No. 145,049; July 26; v. 288; p. 812.
- Skins and hides, Raw. M. Hecht. No. 140,823; Mar. 29; v. 284; p. 944.
- Skins, Brown-dyed rabbit-. J. Laskin & Sons. No. 149,428; Dec. 13.
- Skins, Certain. Alaska Chemical Company. No. 147,532; Oct. 25.
- Skins, Fur. Alexandre Works. No. 149,813; Dec. 27.
- Skins, Fur-. S. Kahn. No. 145,126; July 26; v. 288; p. 814.
- Skins of animals used in the fur industry. C. & E. Chapal Freres & Cie. No. 139,735; Feb. 15; v. 283; p. 543.
- Skins of animals used in the fur industry. C. & E. Chapal Freres & Cie. Nos. 142,466-7; May 17; v. 286; p. 625.
- Skylights. August Kuhnla, Inc. No. 149,979; Dec. 27.
- Skylights. Howie Company. No. 138,908; Jan. 11; v. 282; p. 381.
- Slag, Dense hard. Emanuel Slag Company. No. 146,458; Sept. 6; v. 290; p. 210.
- Slaw-cutters. Bluffton Slaw Cutter Co. No. 147,478; Oct. 18.
- Sleds. Sherwood Bros. Mfg. Co. No. 142,762; May 17; v. 286; p. 633.
- Sleds and boys' wagons for play. Simmons Hardware Company. No. 142,130; May 3; v. 286; p. 190.
- Sleds and coaster-wagons, children's. Marshall-Wells Company. No. 142,017; May 13; v. 286; p. 187.
- Sleds and wagons, Coasting. Marshall-Wells Company. No. 148,158; Nov. 8.
- Sleeping-garments. J. Silberman. No. 142,764; May 17; v. 286; p. 633.
- Sliced prepared toast in packages. Porter Baking Co. No. 149,203; Dec. 6.
- Slides for watch-guards, sautoirs, &c. C. H. Sherman. No. 147,688; Oct. 25.
- Slippers of leather, Ladies' house-. Baker Shoe Co. No. 142,441; May 17; v. 286; p. 624.
- Snap-fasteners. Carr Fastener Company. No. 138,590; Jan. 4; v. 282; p. 186.
- Snap-fasteners. De Long Hook and Eye Company. No. 148,388; Nov. 15.
- Snap-fasteners. Lindeke, Warner & Sons. No. 142,289; May 10; v. 286; p. 405.
- Snap-fasteners. Marshall Field & Company. No. 146,045; Aug. 23; v. 289; p. 793.
- Snap-fasteners. Marshall Field & Company. No. 147,792; Nov. 1.
- Snap-fasteners. Mosstwin Company. No. 138,676; Jan. 4; v. 282; p. 188.
- Snap-fasteners. Mosstwin Company. No. 139,355; Feb. 1; v. 283; p. 170.
- Snap-fasteners. Mosstwin Company. No. 148,485; Nov. 15.



- Snap-fasteners. New York Merchandise Company. No. 148,494; Nov. 15.
- Snap-fasteners. Penn Rivet Corporation. No. 150,049; Dec. 27.
- Snap-fasteners. Penn Rivet Corporation. No. 150,051; Dec. 27.
- Snap-fasteners. Rau Fastener Co. No. 144,039; June 21; v. 287; p. 582.
- Snap-fasteners. Chas. Rubens & Co. No. 142,325; May 10; v. 286; p. 406.
- Snap-fasteners for garments. Chas. D. Stone Company. No. 148,932; Nov. 29.
- Snap-fasteners, hooks and eyes, &c. The Dry Goods Alliance. No. 138,610; Jan. 4; v. 282; p. 186.
- Soap. Alfred Wright, Inc. No. 139,670; Feb. 8; v. 283; p. 355.
- Soap. American Safety Razor Corporation. No. 149,633; Dec. 20.
- Soap. Amole Soap Company. No. 144,303; June 28; v. 287; p. 779.
- Soap. Andrew Jergens Company. No. 145,314; Aug. 2; v. 289; p. 177.
- Soap. F. Angulo. Nos. 144,168-9; June 28; v. 287; p. 773.
- Soap. W. J. Carey. No. 141,333; Apr. 19; v. 285; p. 566.
- Soap. Cincinnati Soap Company. No. 139,508; Feb. 8; v. 283; p. 350.
- Soap. Coco Soap Company. No. 143,307; May 31; v. 286; p. 1048.
- Soap. Desert Wonder Soap Company. No. 147,980; Nov. 8.
- Soap. C. A. Doty. No. 148,759; Nov. 22.
- Soap. Elkonite Soap Co. No. 147,306; Oct. 11.
- Soap. Fitzpatrick Bros. No. 141,121; Apr. 12; v. 285; p. 380.
- Soap. Fitzpatrick Bros. No. 147,312; Oct. 11.
- Soap. Fitzpatrick Bros. Nos. 150,195-9; Dec. 27.
- Soap. Gee-Go Wonder Soap Co. No. 139,300; Feb. 1; v. 283; p. 169.
- Soap. W. T. Green. No. 148,059; Nov. 8.
- Soap. J. Gutradt Company. No. 149,937; Dec. 27.
- Soap. W. H. Hewitt. No. 148,075; Nov. 8.
- Soap. R. M. Hollingshead Co. No. 148,078; Nov. 8.
- Soap. Houbigant. No. 140,834; Mar. 29; v. 284; p. 944.
- Soap. Howard Bros. Chemical Co. No. 142,572; May 17; v. 286; p. 628.
- Soap. Howard Bros. Chemical Co. No. 148,081; Nov. 8.
- Soap. Iowa Soap Company. No. 148,091; Nov. 8.
- Soap. John T. Stanley Co. No. 139,401; Feb. 1; v. 283; p. 172.
- Soap. T. C. Kansas. No. 142,648; May 17; v. 286; p. 630.
- Soap. Kolynos Company. No. 149,974; Dec. 27.
- Soap. E. L. Lambert. No. 139,565; Feb. 8; v. 283; p. 351.
- Soap. Lange Soap Co. No. 148,128; Nov. 8.
- Soap. Los Angeles Soap Co. No. 143,813; June 7; v. 287; p. 192.
- Soap. R. Miller. No. 142,050; May 3; v. 286; p. 188.
- Soap. Mu-Col Company. No. 143,407; May 31; v. 286; p. 1051.
- Soap. C. Munter. No. 144,209; June 28; v. 287; p. 774.
- Soap. National Chemical Company. No. 148,175; Nov. 8.
- Soap. National Wood Renovating Company. No. 140,913; Mar. 29; v. 284; p. 947.
- Soap. The Palmolive Company. No. 139,020; Jan. 18; v. 282; p. 555.
- Soap. Palmolive Company. No. 139,597; Feb. 8; v. 283; p. 352.
- Soap. Palmolive Company. No. 140,511; Mar. 15; v. 284; p. 585.
- Soap. Palmolive Co. of Canada. No. 148,200; Nov. 8.
- Soap. Parfumerie Lournay. Nos. 142,696-9; May 17; v. 286; pp. 631-2.
- Soap. Parfumerie Lournay. No. 143,709; June 7; v. 287; p. 186.
- Soap. The Procter and Gamble Company. No. 141,205; Apr. 12; v. 285; p. 383.
- Soap. Procter and Gamble Company. No. 145,440; Aug. 2; v. 289; p. 181.
- Soap. Relyea Soap Company. No. 141,211; Apr. 12; v. 285; p. 383.
- Soap. Richard Hudnut. No. 144,583; July 12; v. 288; p. 424.
- Soap. Ritz Soap Co. No. 138,697; Jan. 4; v. 282; p. 189.
- Soap. Saberton Mfg. Co. No. 145,802; Aug. 16; v. 289; p. 597.
- Soap. Standard Oil Company of New York. No. 142,775; May 17; v. 286; p. 634.
- Soap. Swift and Company. No. 138,718; Jan. 4; v. 282; p. 189.
- Soap. Swift & Company. No. 148,934; Nov. 29.
- Soap. John Wanamaker, New York. No. 144,967; July 19; v. 288; p. 624.
- Soap. Western Bottle Manufacturing Company. No. 139,662; Feb. 8; v. 283; p. 354.
- Soap. Western Soap Products Company. No. 139,663; Feb. 8; v. 283; p. 354.
- Soap. A. A. Wiggins. No. 147,432; Oct. 11.
- Soap and cleaning preparations for fabrics. Common. W. & F. Walker Limited. No. 144,294; June 28; v. 287; p. 777.
- Soap and metal polishing cloths. The Mills Brothers Company. No. 139,168; Jan. 25; v. 282; p. 735.
- Soap and oil-soaps and soap powder, Laundry. Harris Soap Company. No. 143,246; May 24; v. 286; p. 856.
- Soap and preparation in the nature of soap. Kwix Company. No. 147,346; Oct. 11.
- Soap and soap flakes. Fitzpatrick Bros. No. 144,571; July 12; v. 288; p. 424.
- Soap and soap flakes. Sears, Roebuck and Co. No. 144,276; June 28; v. 287; p. 776.
- Soap and soap paste. Joseph Cramer Company. No. 147,764; Nov. 1.
- Soap and soap pastes. J. S. Purdy. No. 147,389; Oct. 11.
- Soap and soap tablets. P. P. Sly. No. 148,604; Nov. 15.
- Soap, Anhydrous. A. Claassen, Jr. No. 139,272; Feb. 1; v. 283; p. 168.
- Soap, Castile. United Drug Company. No. 138,727; Jan. 4; v. 282; p. 190.
- Soap cleaner, soft-. J. Wilson. No. 150,181; Dec. 27.
- Soap, Cleaning and grease-removing. It's It Manufacturing Co. No. 142,586; May 17; v. 286; p. 628.
- Soap compound. H. C. Hartung. No. 139,812; Feb. 22; v. 283; p. 753.
- Soap cream. National Drug Stores Corp. No. 148,752; Dec. 6.
- Soap dyes. E. Green. No. 141,366; Apr. 19; v. 285; p. 566.
- Soap flakes. W. C. Graham. No. 142,548; May 17; v. 286; p. 627.
- Soap flakes, soap chips, soap. Fitzpatrick Bros. No. 144,762; July 19; v. 288; p. 617.
- Soap for cleaning and polishing eyeglasses, spectacles, and goggles. A. D. Honeycutt. No. 144,229; June 28; v. 287; p. 775.
- Soap, Granulated. J. A. Hunnewell. No. 144,800; July 19; v. 288; p. 618.
- Soap in paste form. J. F. Dobbs. No. 148,815; Nov. 29.
- Soap in the form of a paste. Pousey & Meyer Co. No. 143,431; May 31; v. 286; p. 1052.
- Soap, Laundry. American Wholesale Corporation (Baltimore Bargain House). No. 144,167; June 28; v. 287; p. 773.
- Soap, Laundry. A. Escudero & Co. No. 140,379; Mar. 15; v. 284; p. 581.
- Soap, Laundry. Haskins Brothers & Company. No. 144,226; June 28; v. 287; p. 775.
- Soap, Laundry. Larkin Co. No. 147,787; Nov. 1.
- Soap, Laundry. Los Angeles Soap Co. No. 147,868; Nov. 1.
- Soap, Laundry. Sprague, Warner & Company. No. 141,237; Apr. 12; v. 285; p. 384.
- Soap, Laundry. West Coast Soap Co. No. 139,730; Feb. 15; v. 283; p. 541.
- Soap, Laundry. Western Soap Company. No. 150,167; Dec. 27.
- Soap, Mechanics'. Navajo Laboratories. No. 148,178; Nov. 8.
- Soap of pastelike consistency. Skat Company. No. 142,766; May 17; v. 286; p. 634.
- Soap paste. Magnesium Products Co. Inc. No. 148,473; Nov. 15.
- Soap paste or compound cleaner. W. L. Arthur. No. 140,738; Mar. 29; v. 284; p. 941.
- Soap powder. I. A. Newman. No. 144,882; July 19; v. 288; p. 621.
- Soap powder for shaving. Colgate & Company. No. 142,360; May 10; v. 286; p. 407.
- Soap powder, soap, silver-polish, &c. Globe Grocery Stores. No. 148,051; Nov. 8.
- Soap powder combined with mineral ingredients. Cudahy Packing Company. No. 139,514; Feb. 8; v. 283; p. 350.
- Soap, shampoo and bath-foam, Antiseptic liquid-. Harriet Hubbard Ayer. No. 138,940; Jan. 18; v. 282; p. 553.
- Soap, Shaving-. J. B. Williams Company. No. 139,963; Feb. 22; v. 283; p. 761.
- Soap, Shaving-. J. B. Williams Company. No. 140,470; Mar. 15; v. 284; p. 584.
- Soap, Skin-. Radior Co. Ltd. of London. No. 145,789; Aug. 16; v. 289; p. 597.
- Soap, soap chips, &c., Laundry and toilet. Amboy Products Co. No. 143,274; May 31; v. 286; p. 1047.
- Soap, Soft. J. F. Edington. No. 141,117; Apr. 2; v. 285; p. 380.
- Soap, Toilet. Chesebrough Manufacturing Company, Consolidated. No. 138,954; Jan. 18; v. 282; p. 553.
- Soap, Toilet. A. E. Cleveland. No. 144,181; June 28; v. 287; p. 773.
- Soap, Toilet. Graham Bros. Soap Co. No. 149,778; Dec. 20.
- Soap, Toilet. International Drug Company. No. 149,959; Dec. 27.
- Soap, Toilet. James S. Kirk & Company. No. 148,588; Nov. 15.
- Soap, Toilet. Los Angeles Soap Co. No. 149,320; Dec. 6.
- Soap, Toilet. Remmers Soap Company. No. 144,914; July 19; v. 288; p. 622.
- Soap, Toilet. Rolling Tooth Brush Company. No. 147,395; Oct. 11.
- Soap, Toilet. Saberton Mfg. Co. No. 145,449; Aug. 2; v. 289; p. 181.
- Soap, Toilet and laundry. Graham Bros. Soap Co. No. 144,220; June 28; v. 287; p. 775.
- Soap, Toilet and shaving. Nathan & Cie. Laboratories Cadum. No. 150,021; Dec. 27.



*Alphabetical list of trade-marks—Continued.*

- Soap, Waterless. Uzum Products Co. No. 144,289; June 28; v. 287; p. 777.
- Soap, White naphtha. Rub-No-More Company. No. 142,118; May 3; v. 286; p. 190.
- Soaps. Alfred H. Smith Company. No. 145,461; Aug. 2; v. 289; p. 181.
- Soaps. Alfred H. Smith Company. No. 147,408; Oct. 11.
- Soaps. Barclay & Co. No. 147,270; Oct. 11.
- Soaps. A. Bell. No. 141,319; Apr. 19; v. 285; p. 565.
- Soaps. Colgate & Company. No. 139,710; Feb. 15; v. 283; p. 541.
- Soaps. Colgate & Company. Nos. 143,793-4; June 7; v. 287; p. 190.
- Soaps. Colgate & Company. No. 145,635; Aug. 16; v. 289; p. 592.
- Soaps. Colgate & Company. No. 147,284; Oct. 11.
- Soaps. Colgate & Company. Nos. 148,800-3; Nov. 29.
- Soaps. Colgate & Company. No. 149,888; Dec. 27.
- Soaps. Colgate & Company. No. 150,192; Dec. 27.
- Soaps. R. R. Frazier. No. 148,410; Nov. 15.
- Soaps. L. Funder. No. 141,122; Apr. 12; v. 285; p. 380.
- Soaps. H. Gabilla. Nos. 145,095-6; July 26; v. 288; p. 813.
- Soaps. Los Angeles Soap Company. No. 145,133; July 26; v. 288; p. 814.
- Soaps. F. A. Meighan. No. 148,477; Nov. 15.
- Soaps. Naamlooze Vennootschap. Eau De Colognefabriek voorheen J. C. Boldoot. No. 149,179; Dec. 6.
- Soaps. Neble & Company. No. 143,412; May 31; v. 286; p. 1051.
- Soaps. Northwestern Soap Manufacturing Company. No. 142,643; May 17; v. 286; p. 630.
- Soaps. Palmolive Company. No. 140,923; Mar. 29; v. 284; p. 947.
- Soaps. Pioneer Tar Soap Co. No. 147,806; Nov. 1.
- Soaps. Prichard & Constance. No. 143,140; May 24; v. 286; p. 850.
- Soaps. J. T. Robertson Co. No. 145,446; Aug. 2; v. 289; p. 181.
- Soaps. Uno Manufacturing Company. No. 142,810; May 17; v. 286; p. 635.
- Soaps and cleaners. Rath Manufacturing Company. No. 142,721; May 17; v. 286; p. 632.
- Soaps and shaving-cream, Remedial, toilet, and shaving. Henry Thayer & Co. No. 141,447; Apr. 19; v. 285; p. 569.
- Soaps and soap powders. Grain Soaps Corporation. No. 145,103; July 26; v. 288; p. 813.
- Soaps, cleaning, scouring, and polishing, wads, &c. Brillo Manufacturing Company. No. 141,498; Apr. 26; v. 285; p. 778.
- Soaps, Foot-. Thomas Gill Soap Company. No. 146,466; Sept. 6; v. 290; p. 211.
- Soaps, Medicated and shaving. Mulhens & Kropff. No. 143,408; May 31; v. 286; p. 1051.
- Soaps, Shaving-. M. M. R. Vve. Grenoville. No. 148,846; Nov. 29.
- Soaps, shaving-cream, Toilet and shaving. M. F. Judell. No. 144,421; July 5; v. 288; p. 193.
- Soaps, Toilet. F. G. Burke. No. 141,882; May 3; v. 286; p. 183.
- Soaps, Toilet. Harriet Hubbard Ayer. No. 147,916; Nov. 8.
- Soaps, Toilet. Parfumerie Houbigant. No. 139,598; Feb. 8; v. 283; p. 352.
- Soaps, Toilet. Swift and Company. No. 148,278; Nov. 8.
- Soaps, Toilet and bath. Kaufman-Straus Co. No. 143,375; May 31; v. 286; p. 1050.
- Soaps, Toilet, perfumed toilet and household. Societe Anonyme Parfumerie Ramesses. No. 148,265; Nov. 8.
- Socks and stockings, Footless. John J. McCann Co. No. 140,282; Mar. 8; v. 284; p. 372.
- Socks, Men's. I. Michelsohn. No. 148,478; Nov. 15.
- Soda-ash. C. J. Bausinger. No. 146,430; Sept. 6; v. 290; p. 207.
- Soda, Baking-. F. B. Chamberlain Company. No. 147,954; Nov. 8.
- Soda biscuits and crackers. J. B. Carr Biscuit Co. No. 144,517; July 5; v. 288; p. 198.
- Soda, Caustic. B. T. Babbitt, Inc. No. 140,740; Mar. 29; v. 284; p. 941.
- Soda-fountain and parts thereof. Knight Light & Soda Fountain Co. No. 141,155; Apr. 12; v. 285; p. 331.
- Soda-fountains. American Show Case and Mfg. Co. No. 145,027; July 26; v. 288; p. 811.
- Soda, Silicate of. San Antonio Drug Co. No. 147,156; Oct. 4.
- Soda-water. R. G. Mullins. No. 139,838; Feb. 22; v. 283; p. 753.
- Sodium and lithium compound salt. William S. Merrell Company. No. 142,031; May 3; v. 286; p. 187.
- Sodium silicate. Philadelphia Quartz Company. No. 139,186; Jan. 25; v. 282; p. 735.
- Soft-metal-grinding compound. J. O. Werner. No. 147,429; Oct. 11.
- Soil food. M. Chupka. No. 141,896; May 3; v. 286; p. 183.
- Soil-mulshing machines. B. Carlisle. No. 140,577; Mar. 22; v. 284; p. 744.
- Solder. F. J. Bates. No. 141,731; Apr. 26; v. 285; p. 786.
- Solder. Great Western Smelting & Refining Company. No. 149,396; Dec. 13.
- Solder, Aluminium. H. O. Ormiston. No. 144,019; June 21; v. 287; p. 581.
- Solder combined with a flux. A. Lindahl. Nos. 142,671-2; May 17; v. 286; p. 631.
- Solder, copper, and tin, &c. Ellenwood & Doyle. No. 149,911; Dec. 27.
- Soldering and tinning flux. F. H. Perfect. No. 144,038; June 21; v. 287; p. 582.
- Soldering and tinning fluxes, &c. Reade Manufacturing Company. No. 144,452; July 5; v. 288; p. 194.
- Soldering fluids, soldering-paste, soldering-salts, tinning solution, and soldering-flux. Reade Mfg. Co. No. 145,005; July 19; v. 288; p. 628.
- Soldering-flux. F. Chapman. No. 139,269; Feb. 1; v. 283; p. 168.
- Soldering-flux and radiator-soldering solution. Liquid Solder Company. No. 143,073; May 24; v. 286; p. 848.
- Soldering, Metal-treating fluid for preparing work for, American Chemical Paint Company. No. 146,158; Sept. 6; v. 290; p. 197.
- Soldering-paste. Snappy Soldering Paste Co. No. 148,926; Nov. 29.
- Sole-leather. United States Leather Company. No. 144,486; July 5; v. 288; p. 195.
- Sole of the foot, Supports for the. A. E. Block. No. 147,448; Oct. 18.
- Soles and heels for boots and shoes. Lima Cord Sole & Heel Company. No. 149,142; Dec. 6.
- Soles, Quilted. L. G. & S. S. Co. No. 145,725; Aug. 16; v. 289; p. 595.
- Solution for chapped hands and faces. A. Royce. No. 148,242; Nov. 8.
- Solutions. Alcohol Products Company. No. 146,062; Aug. 30; v. 289; p. 1013.
- Soporific drug preparation. Winthrop Chemical Company. No. 145,874; Aug. 16; v. 289; p. 599.
- Sound-reproducing machines, Needles for. A. B. Clinton Company. No. 149,361; Dec. 13.
- Sounding-tubes. Kelvin, Bottomley & Baird, Limited. No. 139,561; Feb. 8; v. 283; p. 351.
- Sourwood compound, a diuretic cordial for urinary and kidney disorders. William S. Merrell Company. No. 143,083; May 24; v. 286; p. 848.
- Soutache and shell braids, Mercerized, &c. Corona Braid Works. No. 149,894; Dec. 27.
- Spades, shovels, hoes, &c. John Yates & Co. Ltd. No. 146,917; Sept. 20; v. 290; p. 639.
- Spaghetti. G. G. Cornwell & Son. No. 147,289; Oct. 11.
- Spaghetti and macaroni. S. R. Smith Company. No. 139,631; Feb. 8; v. 283; p. 354.
- Spaghetti, macaroni, &c. Gandolfo-Ghio Mfg. Co. No. 149,384; Dec. 13.
- Spark-coils, electric switches, &c. Societe Anonyme des Etablts. Esselbe. No. 141,232; Apr. 12; v. 285; p. 384.
- Spark-gaps in ignition-circuits, Devices for producing. J. W. Disette. No. 139,518; Feb. 8; v. 283; p. 350.
- Spark gaps, radio receiving sets, &c. Quenched-American Radio and Research Corporation. No. 141,310; Apr. 19; v. 285; p. 565.
- Spark-intensifiers and ignition-detectors. Nash Company. No. 142,629; May 17; v. 286; p. 630.
- Spark-plug cleaners. Champion Spark Plug Company. No. 141,031; Mar. 29; v. 284; p. 951.
- Spark-plug insulators. Lydon Manufacturing Co. No. 141,597; Apr. 26; v. 285; p. 781.
- Spark-plugs. American Manufacturing Company. No. 141,476; Apr. 26; v. 285; p. 777.
- Spark-plugs. Armor Spark Plug Co. No. 139,755; Feb. 22; v. 283; p. 751.
- Spark-plugs. Auburn Ignition Mfg. Co. No. 141,728; Apr. 26; v. 285; p. 785.
- Spark-plugs. J. R. Ayotte. No. 141,853; May 3; v. 286; p. 182.
- Spark-plugs. Fan Flame Spark Plug Co. No. 146,220; Sept. 6; v. 290; p. 199.
- Spark-plugs. Griffin Mfg. Co. No. 144,999; July 19; v. 288; p. 618.
- Spark-plugs. Ignition Company of America. No. 148,084; Nov. 8.
- Spark-plugs. King Bed Spark Plug Company. No. 142,657; May 17; v. 286; p. 630.
- Spark-plugs. Lightning Spark Plug Company. No. 149,433; Dec. 13.
- Spark-plugs. M. E. Lyons. No. 147,496; Oct. 18.
- Spark-plugs. Marshall Oil Company of Iowa. No. 141,776; Apr. 26; v. 285; p. 790.
- Spark-plugs. Michigan Spark Plug Co. No. 143,398; May 31; v. 286; p. 1051.
- Spark-plugs. W. L. Phillips. No. 145,438; Aug. 2; v. 289; p. 181.
- Spark-plugs. Porter Company. No. 145,177; July 26; v. 288; p. 815.
- Spark-plugs. A. Samson. No. 146,349; Sept. 6; v. 290; p. 203.
- Spark-plugs. Spiro Spark Plug Co. No. 148,268; Nov. 8.
- Spark-plugs. Symms-Brownell Mfg. Co. No. 145,469; Aug. 2; v. 289; p. 182.
- Spark-plugs. Thomas Spark Plug Co. No. 139,099; Jan. 18; v. 282; p. 561.
- Spark-plugs and parts thereof. Champion Ignition Company. No. 141,093; Apr. 12; v. 285; p. 380.
- Spark-plugs for ignition systems for internal-combustion engines. E. C. Manufacturing Company. No. 146,729; Sept. 20; v. 290; p. 633.
- Spark-plugs for internal-combustion engines. Lloyd, Wallace Co. No. 139,723; Feb. 15; v. 283; p. 541.



- Spark-timers for internal-combustion engines. Milwaukee Auto Engine & Supply Co. No. 146,541; Sept. 6; v. 290; p. 219.
- Spark-timers for internal-combustion engines. Necedah Manufacturing Co. No. 147,800; Nov. 1.
- Specific for rheumatism. Health Laboratories. No. 149,939; Dec. 27.
- Specific for rheumatism. Health Laboratories. No. 149,940; Dec. 27.
- Spectacle and eyeglass frames. H. Paulson. No. 148,722; Nov. 22.
- Spectacle and eyeglass frames and mountings. New Jersey Optical Co. No. 144,253; June 28; v. 287; p. 776.
- Spectacle frames and rims made of celluloid. Ross & Company. No. 148,734; Nov. 22.
- Spectacles and eyeglasses and mountings therefor. P. H. Johnston. No. 140,279; Mar. 8; v. 284; p. 372.
- Spectacles, eyeglasses, and certain supplies, &c. American Optical Company. No. 144,094; June 21; v. 287; p. 585.
- Spectacles, eyeglasses, and lorgnettes, Frames, mountings, and parts of. C. A. Wilkinson Company. No. 144,297; June 28; v. 287; p. 777.
- Spectacles, eyeglasses, and ophthalmic mountings and component parts of same. Bishop Company. No. 147,273; Oct. 11.
- Spectacles, eyeglasses, eye-protectors, &c. American Optical Company. Nos. 138,891-2; Jan. 11; v. 282; p. 379.
- Speedometers. Replacement parts for. F. W. Stewart Manufacturing Corporation. No. 147,466; Oct. 18.
- Sphygmomanometers. Federal Products Corporation. No. 142,520; May 17; v. 286; p. 626.
- Sphygmomanometers, thermometers, hydrometers, &c. Precision Thermometer and Instrument Company. No. 147,386; Oct. 11.
- Spices, tea, table sauces, flavoring extracts, barley, &c. Heckin Spice Company. No. 140,824; Mar. 29; v. 284; p. 944.
- Spindle-bandings, webs, &c. Russell Manufacturing Company. No. 143,735; June 7; v. 287; p. 187.
- Spoke-fastener, Liquid. Navajo Laboratories. No. 148,177; Nov. 8.
- Sponge-cloth. D. N. Graves. No. 143,958; June 21; v. 287; p. 579.
- Sponges. Pittsburgh Plate Glass Company. No. 139,370; Feb. 1; v. 283; p. 171.
- Spoon holders, Soda-. G. S. Ward. No. 147,526; Oct. 18.
- Spray, Nose-. O. J. McMillan. No. 140,887; Mar. 29; v. 284; p. 946.
- Sprays, Massage shower and bath. Knickerbocker Mfg. Co. No. 140,618; Mar. 22; v. 284; p. 745.
- Sprayers, Dust-. California Sprayer Company. No. 149,864; Dec. 27.
- Spraying compound. A. D. Blackburn. No. 142,240; May 10; v. 286; p. 403.
- Spraying compound, Certain. Hood River Spray Company. No. 146,771; Sept. 20; v. 290; p. 634.
- Spreaders, Manure and straw. Litchfield Manufacturing Company. No. 149,143; Dec. 6.
- Spring shock-absorbing devices. T. W. C. Hartmann. No. 146,577; Sept. 13; v. 290; p. 421.
- Springs and tools, reamers, shafting, &c. Herbert Terry & Sons. No. 141,249; Apr. 12; v. 285; p. 384.
- Springs, Compression, extension, and torsion. Lee Spring Company. No. 139,083; Jan. 18; v. 282; p. 559.
- Springs or spring-mattresses for beds, Bed-. Gasau-Thompson Company. No. 139,678; Feb. 8; v. 283; p. 356.
- Springs, Wire bed and chair mattress and cushion. Milwaukee Woven Wire Works. No. 143,096; May 24; v. 286; p. 849.
- Sprinkler systems for lawns and gardens. P. Sattelkau. No. 139,382; Feb. 1; v. 283; p. 171.
- Sprocket-valve wheel rims and chain-guides. Babbitt Steam Specialty Co. No. 148,990; Dec. 6.
- Spurs and bits. P. M. Kelly. No. 147,057; Sept. 27; v. 290; p. 808.
- Stabilizers, drag-links for vehicle steering-gear, and bumpers. Cincinnati Ball Crank Co. No. 146,636; Sept. 13; v. 290; p. 426.
- Stabilizing or smoothing powder for ice-creams, &c. Eng-Skell Company. No. 145,354; Aug. 2; v. 289; p. 178.
- Stain or floor-dressing, Wood-. Martin Varnish Company. No. 141,603; Apr. 26; v. 285; p. 781.
- Stain-remover, Chemical. J. A. Ortlieb. No. 145,767; Aug. 16; v. 289; p. 596.
- Stamps, Hand-. Worcester Office Supplies Company. No. 147,833; Nov. 1.
- Stamps, Time-. A. Ehrenreich & Cie. No. 147,595; Oct. 25.
- Stands, mirrors, tea-tables, &c. Tiffany & Company. No. 139,220; Jan. 25; v. 282; p. 736.
- Starch. Corn Products Refining Co. No. 147,972; Nov. 8.
- Starch, Gloss-. Penick & Ford. No. 143,866; June 14; v. 287; p. 401.
- Starch-glue material. Perkins Glue Company. No. 139,093; Jan. 18; v. 282; p. 560.
- Starters and controllers. Electrical-motor. Industrial Controller Company. No. 145,381; Aug. 2; v. 289; p. 179.
- Starters for internal-combustion engines, Drives for. Eclipse Machine Company. No. 141,349; Apr. 19; v. 285; p. 566.
- Starters, motors, dynamos, and rail-bases therefor. Crocker-Wheeler Company. No. 148,444; Nov. 15.
- Stationary vulcanizers. Western Vulcanizer Manufacturing Company. No. 138,927; Jan. 11; v. 282; p. 383.
- Stationery. Hall Lithographic Co. No. 144,999; July 19; v. 288; p. 627.
- Stationery. Kalamazoo Loose Leaf Binder Company. Nos. 144,661-3; July 12; v. 288; p. 428.
- Stationery articles, Certain. I. Levi. No. 148,135; Nov. 8.
- Stationery, Certain. Gregory Mayer & Thom Co. No. 148,901; Nov. 29.
- Steam and liquid-vapor condensers. Ingersoll-Rand Company. No. 141,040; Mar. 29; v. 284; p. 952.
- Steam-engines, coal-tipple machinery, &c. The Tri-State Engineering Co. No. 139,650; Feb. 8; v. 283; p. 354.
- Steam-traps. Templeton Manufacturing Co. No. 147,251; Oct. 4.
- Steel. Atlas Crucible Steel Co. No. 143,898; June 21; v. 287; p. 577.
- Steel. Firth-Sterling Steel Company. No. 149,424; Dec. 13.
- Steel. Vanadium-Alloys Steel Co. No. 139,421; Feb. 1; v. 283; p. 172.
- Steel. Vulcan Crucible Steel Company. No. 139,423; Feb. 1; v. 283; p. 172.
- Steel, Alloy, chisel, and alloy chisel. Ludlum Steel Company. No. 144,194; June 28; v. 287; p. 774.
- Steel and armor-plate, Tool-. Bethlehem Steel Company. No. 147,200; Oct. 4.
- Steel and steel castings, Tool-. The Connecticut Electric Steel Co. No. 139,510; Feb. 8; v. 283; p. 350.
- Steel bars. Arthur Balfour Steel Co. No. 147,911; Nov. 8.
- Steel bars for drills, Hollow and solid. Halcomb & Davidson. No. 116,712; July 26; v. 288; p. 813.
- Steel bars, rods, billets, blooms, &c. Crucible Steel Company of America. No. 145,067; July 26; v. 288; p. 812.
- Steel billets, bars, forgings, and disks. Poldi Steel Corporation of America. No. 150,058; Dec. 27.
- Steel, Black sheets of rolled soft. American Sheet & Tin Plate Company. No. 147,536; Oct. 25.
- Steel dump-bodies for automobile-trucks. Superior Boiler Works. No. 140,723; Mar. 22; v. 284; p. 751.
- Steel, Hot and cold rolled strip-. Worcester Pressed Steel Company. No. 145,208; July 26; v. 288; p. 816.
- Steel, Non-corrosive. Ludlum Steel Company. No. 147,227; Oct. 4.
- Steel products, Certain unwrought and partly-wrought. Hadfields Limited. No. 149,398; Dec. 13.
- Steel restoring and hardening compound. Moran, Mueller & Morris. No. 143,689; June 7; v. 287; p. 186.
- Steel, Rolled. The Superior Sheet Steel Company. No. 149,740; Dec. 20.
- Steel, Rustless. Ludlum Steel Company. No. 146,533; Sept. 6; v. 290; p. 218.
- Steel sheets, &c., Rolled-. Hydraulic Steel Company. Nos. 149,410-11; Dec. 13.
- Steel, Tool-. Atlas Crucible Steel Co. No. 143,897; June 21; v. 287; p. 577.
- Steel, Tool-. Vulcan Crucible Steel Company. No. 148,956; Nov. 29.
- Steel, Tool and carbon tool. Ludlum Steel Company. No. 146,532; Sept. 6; v. 290; p. 218.
- Steel, Tool and gear. Liberty Steel Products Co. Inc. No. 142,668; May 17; v. 286; p. 631.
- Steel-wool. American Steel Wool Mfg. Co. No. 148,348; Nov. 15.
- Steel-wool. Williams Company. No. 149,292; Dec. 6.
- Steels. Arthur Balfour & Company. No. 141,854; May 3; v. 286; p. 182.
- Steels. Easterbrook Allcard & Co. No. 141,829; May 3; v. 286; p. 181.
- Steels, Alloy. The Carpenter Steel Company. No. 141,092; Apr. 12; v. 285; p. 380.
- Steels and alloys. Ludlum Steel Company. No. 147,226; Oct. 4.
- Steels and alloys. Ludlum Steel Company. No. 147,459; Oct. 18.
- Steels and steel bars, wire, &c., Tool-. Corning International Corporation. No. 149,023; Dec. 6.
- Steels, Ferrous-alloy. Halcomb Steel Company. Nos. 148,851-4; Nov. 29.
- Stelenfonds "Neuwe Levenskracht." No. 147,982; Nov. 8.
- Stepladders. Krathwohl Mfg. Co. No. 143,380; May 31; v. 286; p. 1050.
- Stereopticon-slide protectors and parts thereof. Electrically-operated. Automatic Illuminated Advertising Corporation. No. 142,922; May 24; v. 286; p. 843.
- Stereopticons. Attract-O-Scope Corporation. No. 139,112; Jan. 25; v. 282; p. 733.
- Stereopticons, Ediscope Mfg. Co. No. 144,563; July 12; v. 288; p. 423.
- Sticks and canes, umbrella sticks and handles, &c., Walking. Henry Howell & Company Limited. No. 149,783; Dec. 20.
- Stillizing and lobelia compound, for coughs, colds, &c. William S. Merrell Company. No. 143,081; May 24; v. 286; p. 848.
- Stills, Oil-. Power Specialty Company. No. 140,053; Mar. 1; v. 284; p. 178.
- Stockings, Boys'. Imperial Hosiery Co. No. 146,258; Sept. 6; v. 290; p. 200.



*Alphabetical list of trade-marks—Continued.*

- Stockings, Silk. American Dry Goods Company of New York. No. 145,593; Aug. 16; v. 289; p. 591.
- Stone and brick, Artificial. W. L. Sanderson. No. 142,121; May 3; v. 286; p. 190.
- Stone, Building-. Michael Cohen & Co. No. 140,097; Mar. 8; v. 284; p. 364.
- Stone-crushers, &c. Traylor Engineering & Manufacturing Co. No. 144,641; July 12; v. 288; p. 426.
- Stone, Cut. Ingalls Stone Company. No. 142,879; May 17; v. 286; p. 639.
- Stone-cutting machines. Pollard Machinery Company. No. 150,059; Dec. 27.
- Stones for treating eye disease. S. Svider. No. 145,830; Aug. 16; v. 289; p. 598.
- Stoneware and pottery. The Ransbottom Brothers Pottery Company. No. 144,262; June 28; v. 287; p. 776.
- Storage batteries. C. E. Luburg. No. 145,404; Aug. 2; v. 289; p. 180.
- Storage-battery electrolyte. Pep Electrolite Co. No. 148,702; Nov. 22.
- Store-fixtures. Barlow-Kimnet Co. No. 141,857; May 3; v. 286; p. 182.
- Stove-polish. Argyle Chemical Works. No. 143,537; June 7; v. 287; p. 181.
- Stove-polish. W. E. Kahn. No. 139,684; Feb. 8; v. 283; p. 357.
- Stove-polish. H. Slatkin. No. 142,767; May 17; v. 286; p. 634.
- Stove-polishes. J. H. Crocker. No. 141,798; Apr. 26; v. 285; p. 792.
- Stoves. Atlanta Stove Works. No. 143,896; June 21; v. 287; p. 577.
- Stoves and furnaces, Coal and wood. Rudy Furnace Co. No. 141,428; Apr. 19; v. 285; p. 568.
- Stoves and ovens, Camp. Rcd-E Company. No. 140,524; Mar. 15; v. 284; p. 585.
- Stoves and ranges, Wood, gas, and oil. Anchor Stove & Range Co. No. 145,312; Aug. 2; v. 289; p. 177.
- Stoves, Coal and wood. Estate Stove Company. No. 149,378; Dec. 13.
- Stoves, Fluid-fuel cook-. Cleveland Metal Products Company. No. 141,033; Mar. 29; v. 284; p. 952.
- Stoves, Fluid-fuel heating-. Cleveland Metal Products Company. No. 141,034; Mar. 29; v. 284; p. 952.
- Stoves, heaters, lamps, lanterns, &c. Standard Oil Company of New York. No. 143,482; May 31; v. 286; p. 1053.
- Stoves, Oil-. National Enameling & Stamping Co. No. 145,755; Aug. 16; v. 289; p. 596.
- Stoves or furnaces, Air-feeding devices for coal. J. Y. King. No. 143,990; June 21; v. 287; p. 580.
- Stoves, Ovens for. Cleveland Metal Products Company No. 141,035; Mar. 29; v. 284; p. 952.
- Stoves, ovens, stovepipe-elbows, &c. Wheeling Corrugating Company. No. 145,485; Aug. 2; v. 289; p. 182.
- Stoves, ranges, and portions thereof. Magee Furnace Company. No. 138,664; Jan. 4; v. 282; p. 188.
- Stoves, ranges, and water-heaters. J. C. Schieck. No. 140,958; Mar. 29; v. 284; p. 948.
- Stoves, ranges, furnaces. Phillips & Clark Stove Co. No. 142,091; May 3; v. 286; p. 189.
- Stoves, ranges, furnaces, heaters, and parts. Roberts & Mander Stove Company. No. 139,095; Jan. 18; v. 282; p. 560.
- Stoves used in making toast. Electric. Westinghouse Electric & Manufacturing Company. No. 144,675; July 12; v. 288; p. 429.
- Stovepipes and stove-dampers. Wheeling Corrugating Company. No. 146,938; Sept. 20; v. 290; p. 643.
- Stovepipes and stovepipe-elbows. Hemp & Co. (Corp.) No. 143,362; May 31; v. 286; p. 1049.
- Stovepipes and stovepipe-elbows. Hemp & Co. (Corp.) No. 147,221; Oct. 4.
- Strapping for balls, wooden boxes, &c., and metallic fastening-seals for said strapping. Metal. Signode System, Inc. No. 149,504; Dec. 13.
- Strawberries. Strawberry Growers Selling Co. Nos. 146,935-6; Sept. 20; v. 290; p. 642.
- String, twine, cord, and rope. D. P. Winne Co. No. 142,846; May 17; v. 286; p. 636.
- Stroppers, Mechanical blade-. Tarantella Company. No. 146,376; Sept. 6; v. 290; p. 203.
- Structural compositions, Autosolidifying. Flex-Or-Crete Corporation. No. 145,667; Aug. 16; v. 289; p. 593.
- Stucco and stucco materials. Cheney & Co. No. 145,626; Aug. 16; v. 289; p. 592.
- Stucco, composition flooring, and plaster. Sunderland Brothers Company. No. 143,485; May 31; v. 286; p. 1053.
- Suction-cleaners, sadirons, fans, &c., Electric. Blue Bird Manufacturing Company. No. 144,551; July 12; v. 288; p. 423.
- Sugar. American Sugar Refining Company. No. 140,731; Mar. 29; v. 284; p. 941.
- Sugar. American Sugar Refining Company. No. 146,064; Aug. 30; v. 289; p. 1013.
- Sugar. Corn Products Refining Co. No. 147,577; Oct. 25.
- Sugar. South Porto Rico Sugar Company. No. 146,879; Sept. 20; v. 290; p. 637.
- Sugar-cane-cutting machinery. W. S. Miller. No. 148,165; Nov. 8.
- Sugar, Corn-. Corn Products Refining Co. No. 146,973; Sept. 27; v. 290; p. 804.
- Sugar, Milk-. Phenix Cheese Co. No. 148,210; Nov. 8.
- Sugar substitute. J. Berman. No. 146,690; Sept. 20; v. 290; p. 632.
- Sugar substitute. Sharp & Dohme. No. 146,453; Sept. 6; v. 290; p. 209.
- Sugar wafers and cakes. American Biscuit Company. No. 147,899; Nov. 8.
- Suits. Sonneborn Brothers. No. 148,536; Nov. 15.
- Suits and coats, Misses' and juniors'. Kanner, Marks & Traurig. No. 149,966; Dec. 27.
- Suits and outer coats, dresses, wraps, skirts, Ladies', misses', and juniors'. I. Grossman & Son. No. 144,788; July 19; v. 288; p. 618.
- Suits and outer garments. Children's. Wexler, Goldstein & Company. No. 140,694; Mar. 22; v. 284; p. 747.
- Suits and overcoats. International Tailoring Company. No. 140,275; Mar. 8; v. 284; p. 371.
- Suits and overcoats. Wallace, Scott & Co. No. 144,489; July 5; v. 288; p. 196.
- Suits and overcoats, Men's. Cohen & Lang. No. 140,350; Mar. 15; v. 284; p. 580.
- Suits and overcoats, Men's. Gano-Downs Clothing Company. No. 149,774; Dec. 20.
- Suits and overcoats, Men's. Harris, Richman & Goldstein. No. 147,325; Oct. 11.
- Suits and overcoats, Men's. Pollock & Beckoff. No. 142,095; May 3; v. 286; p. 189.
- Suits and overcoats, Men's and boys'. Silver Brothers. No. 140,298; Mar. 8; v. 284; p. 374.
- Suits and overcoats, Men's and young men's. Goldstein, Neumann & Co. No. 148,840; Nov. 29.
- Suits and overcoats, Men's and young men's. Plimack Brothers. No. 145,782; Aug. 16; v. 289; p. 597.
- Suits and overcoats, Men's outer. A. B. Kirschbaum Company. No. 146,789; Sept. 20; v. 290; p. 635.
- Suits and overcoats, Men's outer. S. D. Levy. No. 141,405; Apr. 19; v. 285; p. 568.
- Suits and trousers, Outer. Sears, Roebuck and Co. No. 142,753; May 17; v. 286; p. 633.
- Suits, blouses, bloomers, and skirts. Three-piece play-. E. L. Bornstein. No. 147,933; Nov. 8.
- Suits, Boys'. Cohen, Endel & Co. No. 144,725; July 19; v. 288; p. 616.
- Suits, Boys'. Merit Manufacturing Company. No. 140,628; Mar. 22; v. 284; p. 745.
- Suits, boys' blouses, negligee and dress shirts, Children's outer. J. H. Janowitch & Janov. No. 149,124; Dec. 6.
- Suits, Boys' knickerbocker-. Associated Merchandising Corporation. No. 143,279; May 31; v. 286; p. 1047.
- Suits, children's dresses, &c., Boys' wash-. Cooper Coat & Casey Dry Goods Co. No. 141,100; Apr. 12; v. 285; p. 380.
- Suits, Children's play-. Sherman Overall Manufacturing Company. No. 146,359; Sept. 6; v. 290; p. 203.
- Suits, Children's play-. Superior Garment Company. No. 140,987; Mar. 29; v. 284; p. 949.
- Suits, coats, and dresses, Misses' and ladies'. Joseph Rodgers Inc. No. 147,392; Oct. 11.
- Suits, coats, and dresses, Women's sport-. E. Stuffer & Co. No. 140,985; Mar. 29; v. 284; p. 949.
- Suits, coats, dresses, Ladies'. Salomon, Blum and Co. No. 145,803; Aug. 6; v. 289; p. 597.
- Suits, coats, hats, and wraps, Ladies'. Jos. Ney & Sons Co. No. 143,699; June 7; v. 287; p. 186.
- Suits, coats, trousers, vests, and overcoats. Roughrider Clothes Co. No. 140,202; Mar. 8; v. 286; p. 367.
- Suits, coats, vests, and pants. S. W. Lew. No. 140,880; Mar. 29; v. 284; p. 946.
- Suits consisting of coats, caps, &c., Ladies' outing-. Cal Hirsch & Sons Mercantile Co. No. 143,646; June 7; v. 287; p. 184.
- Suits, Girls' play-. Jordan Marsh Company. No. 140,152; Mar. 8; v. 284; p. 365.
- Suits, Golf-. Ph. Weinberg & Sons. No. 139,472; Feb. 1; v. 283; p. 177.
- Suits, Men's. Everett, Heaney & Company. No. 143,599; June 7; v. 287; p. 183.
- Suits, Men's. Isaacs & Kubrin. No. 145,562; Aug. 9; v. 289; p. 408.
- Suits, Men's. Schlang & Co. No. 143,460; May 31; v. 286; p. 1052.
- Suits, Men's and boys'. Goldsmith Clothing Co. No. 147,213; Oct. 4.
- Suits, Men's and boys' work-. Western Dry Goods Company. No. 142,834; May 17; v. 286; p. 636.
- Suits, Outer. Sears, Roebuck and Co. No. 148,921; Nov. 29.
- Suits, overcoats, and trousers. I. Spiewak & Sons. No. 147,411; Oct. 11.
- Suits, overcoats, mackinaws, pants, and vests. I. I. Marrus. No. 149,156; Dec. 6.
- Suits, rompers, middy-blouses, Wash-. J. B. Branch. No. 139,708; Feb. 15; v. 283; p. 541.
- Suits, trousers, and overcoats. Woodhull, Goodale & Bull. No. 145,876; Aug. 16; v. 289; p. 600.
- Suits, waists, hosiery, and underclothes, Ladies'. Harrods (North America) Ltd. No. 143,633; June 7; v. 287; p. 184.
- Sulfate of alumina. Como Chemical Co. No. 148,645; Nov. 22.
- Sulfite pulp. Riordon Pulp & Paper Company. No. 141,424; Apr. 19; v. 285; p. 568.



- Sulfur-terpene compounds and solutions. Clapp Products Company. No. 146,071; Aug. 30; v. 289; p. 1013.
- Sulfuret of antimony. Atlas Chemical Company. No. 140,739; Mar. 29; v. 284; p. 941.
- Suppositories, Antiseptic vaginal. William S. Merrell Company. No. 142,032; May 3; v. 286; p. 187.
- Surfacing and finishing composition. Certain. R. L. Smith. No. 147,690; Oct. 25.
- Surgical, dental, and medical supplies. Miller Rubber Company. No. 139,170; Jan. 25; v. 282; p. 735.
- Surgical instruments. G. Ermold. No. 139,531; Feb. 8; v. 283; p. 350.
- Suspenders. Arbutnot-Stephenson Co. No. 138,565; Jan. 4; v. 282; p. 185.
- Suspenders. J. A. Harps. No. 138,637; Jan. 4; v. 282; p. 187.
- Suspenders. Russell Manufacturing Company. No. 148,247; Nov. 8.
- Suspenders and hose-supporters. Nu-Way Strech Suspend Co. No. 149,190; Dec. 6.
- Suspenders, garters, &c. New York Boys' Shops. No. 138,682; Jan. 4; v. 282; p. 188.
- Suspenders, garters, armbands, and belts. Ohio Suspend Company. No. 145,569; Aug. 9; v. 289; p. 408.
- Suspenders, garters, men's belts and armbands. A. Ziegler & Sons Company. No. 143,752; Nov. 22.
- Suspenders, hose-supporters, garters, &c. Russell Manufacturing Company. No. 142,737-8; May 17; v. 286; p. 633.
- Sweater-coats. Sears, Roebuck and Co. No. 143,743; June 7; v. 287; p. 187.
- Sweaters. P. White. No. 142,349; May 10; v. 286; p. 406.
- Sweaters. P. White. No. 142,906; May 17; v. 286; p. 642.
- Sweaters, bathing-suits, dresses, and skirts. May Knitting Co. No. 147,357; Oct. 11.
- Sweaters, coats, scarfs, caps, &c. M. Vanderwait. No. 142,813; v. 286; p. 635.
- Sweaters, mufflers, &c. Mengart Knitting Mills. No. 145,150; July 26; v. 288; p. 815.
- Sweaters, sweater-coats, and men's and ladies' knit underwear. Hatheway & Reynolds. Nos. 147,855-6; Nov. 1.
- Sweaters, sweater-coats, bathing-suits, knitted caps and boots. Brunswick Knitting Co. No. 143,237; May 24; v. 286; p. 855.
- Sweeping compound. Great Atlantic & Pacific Tea Company. No. 149,580; Dec. 13.
- Sweeping compound. Industrial Laboratories. No. 140,405; Mar. 15; v. 284; p. 582.
- Sweeping compound. Oklahoma Janitor Supply Company. No. 144,885; July 19; v. 288; p. 621.
- Sweetmeats. G. Pfeffer. No. 142,089; May 3; v. 286; p. 189.
- Swing and hammock-couch, Combination porch. Sleep-Or-Swing Company. No. 147,407; Oct. 11.
- Swings and sand-beach carts, Long rope. H. L. Condé. No. 139,124; Jan. 25; v. 282; p. 733.
- Swings, Lawn. G. H. Bugenhagen. No. 146,697; Sept. 20; v. 290; p. 632.
- Switches, Overhead tramway. J. Duncan Company. No. 145,552; Aug. 9; v. 289; p. 407.
- Synthetic tannin. J. H. Yocum. No. 143,230; May 24; v. 286; p. 853.
- Syringes, Hypodermic-injection. F. X. Nowak. No. 140,503; Mar. 15; v. 284; p. 585.
- Syrup. J. L. Klein. No. 142,659; v. 286; p. 630.
- Syrup and root-beer made from such syrup, Root-beer. Richardson Corporation. No. 145,519; Aug. 2; v. 289; p. 186.
- Syrup base, soft drinks, &c., Concentrated fruit. C. Ghigino. No. 146,749; Sept. 20; v. 290; p. 633.
- Syrup, Cane and maple. Pacific Coast Syrup Co. No. 143,704; June 7; v. 287; p. 186.
- Syrup, Cocoa. Richardson Corporation. No. 148,942; Nov. 29.
- Syrup, Corn. American Hominy Company. No. 146,161; Sept. 6; v. 290; p. 197.
- Syrup, Corn. American Hominy Company. Nos. 146,673-4; Sept. 20; v. 290; p. 631.
- Syrup, Cough. Dudman Drug & Chemical Co. No. 138,611; Jan. 4; v. 282; p. 186.
- Syrup, Crystallized and liquid sweetening. Sugola Company of America. No. 142,785; May 17; v. 286; p. 634.
- Syrup for coughs, colds, catarrh, &c. P. E. Le Sieur. No. 143,071; May 24; v. 286; p. 848.
- Syrup for flavoring. R. D. Donoho. No. 141,923; May 3; v. 286; p. 184.
- Syrup for food purposes. Cereal Products Refining Company. Nos. 138,593-4; Jan. 4; v. 282; p. 186.
- Syrup for food purposes and a dough-developer. Cereal Products Refining Company. No. 138,592; Jan. 4; v. 282; p. 185.
- Syrup for making malt beverages, Malt. A. H. Frankel. No. 145,668; Aug. 16; v. 289; p. 593.
- Syrup, Grape. Asti Grape Products Company. Nos. 140,316-17; Mar. 15; v. 284; p. 579.
- Syrup, Lemonade. North Ontario Packing Co. No. 139,592; Feb. 8; v. 283; p. 352.
- Syrup, Malt. Augusta Ice & Beverage Company. No. 141,483; Apr. 26; v. 285; p. 777.
- Syrup, Malt. Premier Malt Products Co. of Ohio. No. 149,716; Dec. 20.
- Syrup, Malt and hop. H. E. Frees Company. No. 145,362; Aug. 2; v. 289; p. 178.
- Syrup, Malt and hops. L. Reine. No. 148,769; Nov. 22.
- Syrup, Malt-sugar. Anheuser-Busch, Incorporated. Nos. 143,533-4; June 7; v. 287; p. 181.
- Syrup, Malted. National Products Company. No. 143,695; June 7; v. 287; p. 186.
- Syrup, Malted barley. Acme Supply Co. No. 146,663; Sept. 20; v. 290; p. 631.
- Syrup, molasses, and honey, Table. Conner & Co. No. 138,599; Jan. 4; v. 282; p. 186.
- Syrup, Non-alcoholic fruit. R. Frank. No. 139,537; Feb. 8; v. 283; p. 351.
- Syrup, Non-alcoholic, non-cereal, maltless soft-drink. J. M. Strickler. No. 138,714; Jan. 4; v. 282; p. 189.
- Syrup of malt and hops used in making malt beverage. United States Syrup Co. No. 141,259; Apr. 12; v. 285; p. 385.
- Syrup, Table. Bliss Syrup Refining Co. No. 142,453; May 17; v. 286; p. 624.
- Syrup, Table. J. R. Cargill. No. 139,498; Feb. 8; v. 283; p. 349.
- Syrup, Table. Golden State Products Company. No. 140,131; Mar. 8; v. 284; p. 365.
- Syrup, Table. Langhoff Brothers Company. No. 136,659; Jan. 4; v. 282; p. 188.
- Syrup, Table. Limpert Bros. No. 139,721; Feb. 15; v. 283; p. 541.
- Syrup, Table. Smith-Davis Company. No. 141,679; Apr. 26; v. 285; p. 783.
- Syrup used in bronchitis, coughs, and colds. William S. Merrell Company. No. 142,030; May 3; v. 286; p. 187.
- Syrup used in making malt beverages, Malt. M. J. Davis. No. 145,647; Aug. 16; v. 289; p. 592.
- Syrups. Gray-Juergens Co. No. 145,373; Aug. 2; v. 289; p. 179.
- Syrups. A. E. Staley Manufacturing Company. No. 142,777; May 17; v. 286; p. 634.
- Syrups and flavors and flavoring extracts for soft drinks. H. J. Stein. No. 148,931; Nov. 29.
- Syrups and molasses for table use. Langhoff Bros. Co. No. 144,828; July 19; v. 288; p. 619.
- Syrups and molasses, Table. Malone & Hyde. No. 139,575; Feb. 8; v. 283; p. 352.
- Syrups and pastes, Food. Sucoco Company. No. 142,784; v. 286; p. 634.
- Syrups for food-flavoring, Malted. Liquid Malted Milk Co. No. 139,569; Feb. 8; v. 283; p. 352.
- Syrups for food-flavoring, Malted. Michigan Malted Milk Co. No. 139,580; Feb. 8; v. 283; p. 352.
- Syrups for food products, canned fruits, &c. H. B. Hunter Co. No. 143,648; June 7; v. 287; p. 184.
- Syrups, molasses, glucose, &c. Nulomoline Company. No. 145,988; Aug. 23; v. 289; p. 789.
- Syrups, Table. Langhoff Bros. Co. No. 144,597; July 12; v. 288; p. 424.
- Syrups used in making non-alcoholic maltless soda-fountain beverages. H. B. Hunter Co. No. 142,279; May 10; v. 286; p. 404.
- T-bevels, hatchet-gages, squares, wing-dividers. Shapleigh Hardware Company. No. 147,815; Nov. 1.
- Table and bed linen, towels, carpets, tapestries, Certain. American Purchasing Corporation. No. 149,632; Dec. 20.
- Table-linens, handkerchiefs, &c. Morton Sundour Fabrics Co. No. 150,017; Dec. 27.
- Tables, chairs, and desks, House. Prestoy Mfg. Co. No. 147,387; Oct. 11.
- Tables, chairs, and stools. Bessire & Company. No. 149,344; Dec. 13.
- Tablet, Laxative. The Glandex Company, Inc. No. 145,954; Aug. 23; v. 289; p. 788.
- Tablet, Laxative. O. S. Lytleton. No. 149,437; Dec. 13.
- Tablet, Laxative. Norma-Tone Co. No. 139,018; Jan. 18; v. 282; p. 555.
- Tablet, Laxative. United States Chemical Co. No. 144,485; July 5; v. 288; p. 195.
- Tablets and paper, envelopes, Writing. United Drug Company. No. 139,653; Feb. 8; v. 283; p. 354.
- Tablets, Antiseptic prophylactic. Leo Shapiro Company. No. 148,131; Nov. 8.
- Tablets, composition, memorandum, and note books, Writing. S. E. & M. Vernon. No. 140,238; Mar. 8; v. 284; p. 368.
- Tablets for colds, coughs, &c. W. H. Hill Co. No. 146,481; Sept. 6; v. 290; p. 212.
- Tablets for indigestion, constipation, &c., Pepsin. Orium Company. No. 150,040; Dec. 27.
- Tablets for la grippe and colds. O. W. Spicer. No. 139,037; Jan. 18; v. 282; p. 556.
- Tablets for local vaginal and uterine antiseptics. William S. Merrell Company. No. 142,036; May 3; v. 286; p. 187.
- Tablets for medicinal use, Buttermilk. Parke, Davis & Company. No. 148,596; Nov. 15.
- Tablets for stomach and liver, Medicinal. A. H. Lewis Medicine Company. No. 148,136; Nov. 8.
- Tablets, Laundry. T. D. Sharman. No. 147,301; Oct. 11.
- Tablets, Laxative. J. M. Kappus. No. 145,972; Aug. 23; v. 289; p. 788.
- Tablets, Laxative. McCrillus Medical Co. No. 149,148; Dec. 6.



*Alphabetical list of trade-marks—Continued.*

- Tablets, Laxative. E. M. Morton. No. 139,007; Jan. 18; v. 282; p. 555.
- Tablets, Laxative. Stonewall Medicine Company. No. 142,149; May 3; v. 286; p. 191.
- Tablets, Laxative cold-. W. F. McKnight. No. 141,409; Apr. 19; v. 285; p. 568.
- Tablets, Medicamental. H. Rothstein. No. 148,944; Nov. 29.
- Tablets, Medicinal. M. Brody. No. 141,879; May 3; v. 286; p. 183.
- Tablets, Medicinal. Sharp & Dohme. No. 142,124; May 3; v. 286; p. 190.
- Tablets, Novocain and novocain and epinephrin. Martin Chemical Company. No. 141,602; Apr. 26; v. 285; p. 781.
- Tablets, School-. J. N. Tinsley. No. 145,234; July 26; v. 288; p. 817.
- Tabules, Obesity-. M. Frindel. No. 139,138; Jan. 25; v. 282; p. 734.
- Tacks and channel, &c., nails, Shoe-. United States Tack Co. No. 148,198; July 26; v. 288; p. 816.
- Tacks, Cut. G. G. Roberts Corporation. No. 145,188; July 26; v. 288; p. 816.
- Tacks, Thumb-. J. H. Taylor. No. 144,639; July 12; v. 288; p. 426.
- Taffeta in the piece. Jacob Miller Sons & Co. No. 140,630; Mar. 22; v. 284; p. 745.
- Taffeta in the piece. Jacob Miller Sons & Co. No. 140,636; Mar. 22; v. 284; p. 746.
- Taffeta in the piece. Jacob Miller Sons & Co. No. 140,645; Mar. 22; v. 284; p. 746.
- Tags, Remnant-. H. Zuckerman. No. 145,214; July 26; v. 288; p. 817.
- Tags, Shipping-. International Tag Company. No. 146,489; Sept. 6; v. 290; p. 213.
- Talking-boards. W. Fuld. No. 142,200; May 3; v. 286; p. 192.
- Talking-boards. W. Fuld. No. 148,331; Nov. 8.
- Talking-boards. M. Jacobson. No. 149,123; Dec. 6.
- Talking-machine needles. Blackman Talking Machine Co. No. 141,492; Apr. 26; v. 285; p. 777.
- Talking-machine records. Arto Co. No. 147,912; Nov. 8.
- Talking-machines. Alexander Cabinet Company. No. 146,418; Sept. 6; v. 290; p. 205.
- Talking-machines. Cunningham Piano Company. No. 148,809; Nov. 29.
- Talking-machines. D. H. Leach. No. 149,587; Dec. 13.
- Talking-machines. L. Palmer. No. 141,422; Apr. 19; v. 285; p. 568.
- Talking-machines. H. Paulson. No. 146,325; Sept. 6; v. 290; p. 202.
- Talking-machines and certain attachments and supplies therefor. T. & H. Specialty Mfg. Co. No. 147,817; Nov. 1.
- Talking-machines and parts thereof. C. J. Willenborg, Jr. No. 148,558; Nov. 15.
- Talking-machines and phonographs. Sonora, Inc. No. 149,614; Dec. 13.
- Talking-machines and pianos. G. M. Gilbert. No. 148,414; Nov. 15.
- Talking-machines and player-pianos. Cable-Nelson Piano Company. No. 143,295; May 31; v. 286; p. 1047.
- Talking-machines and talking-machine cabinets. J. H. Weber. No. 141,715; Apr. 26; v. 285; p. 784.
- Talking-machines, phonographs, and certain phonograph parts and accessories. General Phonograph Corporation. No. 149,577; Dec. 13.
- Talking-machines, phonographs, and music-boxes. Sonora, Inc. Nos. 145,905-19; Aug. 16; v. 289; pp. 603-5.
- Talking-machines, phonographs, talking-machine needles, &c. Sonora, Inc. No. 147,737; Oct. 25.
- Talking-machines, record-disks, sound-boxes, and needles. J. Para. No. 140,925; Mar. 29; v. 284; p. 947.
- Tallow, oleo oil and stearin. Jacob Stern & Sons. No. 139,216; Jan. 25; v. 282; p. 736.
- Tank and carbureter, Combined. H. Dalton, Sr. No. 146,565; Sept. 13; v. 290; p. 421.
- Tanks. National Tank and Steel Company. No. 143,111; May 24; v. 286; p. 849.
- Tanks. Wayne Oil Tank & Pump Company. No. 139,227; Jan. 25; v. 282; p. 736.
- Tanks. Youngstown Boiler & Tank Co. No. 147,528; Oct. 18.
- Tanks, Certain. Air-Tight Steel Tank Company. No. 146,667; Sept. 20; v. 290; p. 631.
- Tanks, mounting-frames for the tanks, bucket-boxes. Davis Welding & Manufacturing Company. No. 142,254; May 10; v. 286; p. 403.
- Tanning extract, Synthetic. Barrett Company. No. 143,548; June 7; v. 287; p. 181.
- Tanning extracts. New York Quebracho Extract Company. Nos. 147,377-9; Oct. 11.
- Tanning extracts. New York Quebracho Extract Company. No. 147,381; Oct. 11.
- Tanning material. Schmoll Fils & Co. No. 140,959; Mar. 29; v. 284; p. 948.
- Tanning materials. Harold M. McArthur & Co. No. 145,979; Aug. 23; v. 289; p. 788.
- Tanning materials. Harold M. McArthur & Co. No. 146,295; Sept. 6; v. 290; p. 201.
- Tap, drill, and wire gages. L. S. Starrett Company. No. 147,250; Oct. 4.
- Taps and dies, pipe threading and cutting machines, boring-bars. Murchey Machine & Tool Company. No. 147,237; Oct. 4.
- Taps, Thread-cutting. Greenfield Tap and Die Corporation. No. 149,084; Dec. 6.
- Tape, Gummed. R. G. Passano. No. 148,912; Nov. 29.
- Tapes, Textile. Hudson Narrow Fabric Co. No. 142,577; v. 286; p. 628.
- Tapestry and needle-point, Hand-woven. Edgewater Tapestry Looms. No. 148,395; Nov. 15.
- Tar-kettles, valves, and pipe-fittings. Kinney Manufacturing Company. No. 141,041; Mar. 29; v. 284; p. 953.
- Targets and traps. Western Cartridge Company. Nos. 149,543-4; Dec. 13.
- Tassels, fringes, &c. S. Rosenblum. No. 142,115; May 3; v. 286; p. 190.
- Taxicabs and pleasure-automobiles. W. B. Cole. No. 148,366; Nov. 15.
- Tea, American Javanese Products Co. No. 142,917; May 24; v. 286; p. 843.
- Tea. M. J. Brandenstein & Co. Nos. 138,949-51; Jan. 18; v. 282; p. 653.
- Tea. Delano, Potter & Co. No. 142,496; May 17; v. 286; p. 626.
- Tea. Delano, Potter and Co. No. 149,763; Dec. 20.
- Tea. Endwar Company. No. 141,934; May 3; v. 286; p. 184.
- Tea. Fifty-Fifty Corporation. No. 140,803; Mar. 29; v. 284; p. 943.
- Tea. Great Atlantic and Pacific Tea Company. No. 147,218; Oct. 4.
- Tea. Hudson Coffee Mills. No. 138,975; Jan. 18; v. 282; p. 554.
- Tea. W. Papiewski Medical Tea Company. No. 144,257; June 28; v. 287; p. 776.
- Tea. D. Weiser. No. 142,831; May 17; v. 286; p. 636.
- Tea. William Braid & Company. No. 144,883; July 5; v. 288; p. 191.
- Tea. Yangtze Corporation. No. 144,981; July 19; v. 288; p. 624.
- Tea. S. Zechnowitz. No. 146,413; Sept. 6; v. 290; p. 204.
- Tea. S. Zechnowitz. No. 146,921; Sept. 20; v. 290; p. 639.
- Tea and coffee. Chase & Sanborn. No. 149,876; Dec. 27.
- Tea and coffee. Kellogg Toasted Corn Flake Co. No. 147,457; Oct. 18.
- Tea and coffee. Roundy, Peckham & Dexter Co. No. 146,855; Sept. 20; v. 290; p. 637.
- Tea, coffee, cocoa, spices. S. D. Abrams. No. 144,677; July 19; v. 286; p. 615.
- Tea composed of herbs and plants. Y. Hillinger. No. 143,644; June 7; v. 287; p. 184.
- Tea, Herb. M. R. Jones. No. 140,849; Mar. 29; v. 284; p. 945.
- Tea, Mixed. Merryweather Coffee, Tea & Spice Co. No. 141,414; Apr. 19; v. 285; p. 568.
- Teas. Carter, Macy & Co. No. 139,775; Feb. 22; v. 283; p. 521.
- Teas and coffees. Blythe Tea Company. No. 141,873; May 3; v. 286; p. 182.
- Teas, coffees, food-flavoring extracts, spices. J. H. Van Winkle. No. 148,290; Nov. 8.
- Teas, Medical. S. Gatkowski. No. 140,706; Mar. 22; v. 284; p. 750.
- Teeth, Compound for use in filling. Dental Ceramic Corporation. No. 143,313; May 31; v. 286; p. 1048.
- Teeth, Compound for use in filling. Dental Ceramic Corporation. No. 143,315; May 31; v. 286; p. 1048.
- Teeth-crowns. Lincoln Dental Mfg. Co. No. 148,890; Nov. 29.
- Teeth, Powder preparation for cleaning artificial. Sant Chemical Co. No. 147,401; Oct. 11.
- Teeth, Preparation for cleansing false. H. S. Scranton. No. 144,630; July 12; v. 288; p. 425.
- Telegraphic sending-machines. Vibroplex Company. No. 148,291; Nov. 8.
- Telephone and parts thereof. Universal High Power Telephone Company. No. 149,275; Dec. 6.
- Telephone apparatus. Western Electric Company. No. 138,925; Jan. 11; v. 282; p. 383.
- Telephone apparatus. Western Electric Company. No. 144,493; July 5; v. 288; p. 196.
- Telephone-directories published semiyearly. Reuben H. Donnelley Corporation. No. 148,282; Nov. 8.
- Telephone instruments and transmitters, &c. The Magnavox Company. No. 139,573; Feb. 8; v. 283; p. 352.
- Telephone-mouthpieces. F. A. Watkins. No. 149,623; Dec. 13.
- Telephone-poles and the like, Cross-arms for. American Line Materials Company. No. 147,468; Oct. 18.
- Telephones, Loud-speaking. Klaxon Company. No. 140,412; Mar. 15; v. 284; p. 582.
- Telephones, switchboards. Kellogg Switchboard and Supply Company. No. 141,151; Apr. 12; v. 285; p. 381.
- Telephonic apparatus. E. Hausdorf. No. 148,856; Nov. 29.
- Tennis and playing courts, pavements, and promenades. En-Tout-Cas Company. No. 147,597; Oct. 25.
- Tents and awnings. Central Tent & Awning Company. No. 138,591; Jan. 4; v. 282; p. 186.



Tents and tent-sheds. Des Moines Tent & Awning Company. No. 149,659; Dec. 20.  
 Tents, awnings, paulins, &c. Clifton Mfg. Company. Nos. 147,045-51; Sept. 27; v. 290; p. 807.  
 Tents, Portable dressing-. V. W. Collier. No. 139,071; Jan. 18; v. 282; p. 558.  
 Tents, tarpaulins, &c. Eastern Finishing Works. No. 140,796; Mar. 29; v. 284; p. 943.  
 Textile fabrics. Tempest Waterproofing Corporation. No. 146,051; Aug. 23; v. 289; p. 794.  
 Textile fabrics in the piece. Penn Textile Company. No. 148,915; Nov. 29.  
 Textile fabrics in the piece for tires. Jenckes Spinning Company. No. 139,998; Mar. 1; v. 285; p. 174.  
 Textile fabrics—namely, silk, Jersey-cloth. Banner Silk Knitting Mills. No. 143,905; June 21; v. 287; p. 577.  
 Textile fibers. S. S. Boyce. No. 143,321; May 31; v. 286; p. 1048.  
 Textile goods in the piece. Jacob Miller Sons & Co. No. 148,337; Nov. 8.  
 Textile machines and equipment. C. G. Sargent's Sons Corporation. No. 142,122; May 3; v. 286; p. 190.  
 Textile-mill supplies. Allen Company. Nos. 141,723-4; Apr. 26; v. 285; p. 785.  
 Textile piece goods. Jacob Miller & Sons Co. Nos. 142,045-8; May 3; v. 286; p. 188.  
 Therapeutic preparation for treatment of tuberculosis. B. S. Paschall. No. 145,773; Aug. 16; v. 289; p. 596.  
 Thermometers. Eimer & Amend. No. 147,482; Oct. 18.  
 Thermometers. C. E. Erickson Co. No. 143,945; June 21; v. 287; p. 579.  
 Thermometers. Philbern Thermometer Co. No. 145,992; Aug. 23; v. 289; p. 789.  
 Thermometers. H. M. Stunz. No. 143,186; May 24; v. 286; p. 851.  
 Thermometers and steam-pressure and altitude gages. American Radiator Company. No. 147,905; Nov. 8.  
 Thermometers, barometers, &c. Taylor Instrument Companies. No. 141,813; Apr. 26; v. 285; p. 793.  
 Thermometers, Clinical. E. Kessling Thermometer Co. No. 147,344; Oct. 11.  
 Thermometers, Clinical. A. Scherrer. No. 147,246; Oct. 4.  
 Thermometers, hydrometers, and hygrometers. A. T. Liespe. No. 145,379; Aug. 2; v. 289; p. 179.  
 Thermometers, pyrometers, &c. Cambridge Scientific Instrument Company. No. 143,296; May 31; v. 286; p. 1047.  
 Thermos-jackets. Bastian-Morley Co. No. 147,544; Oct. 25.  
 Thermostat heat-regulators for stoves and furnaces, volt-meters, &c. Western Electric Company. No. 142,173; May 3; v. 286; p. 192.  
 Thermostats. Bishop & Babcock Company. No. 141,871; May 3; v. 286; p. 182.  
 Thread and yarn. Bearskin Cotton Mills. No. 147,922; Nov. 8.  
 Thread and yarn. J. & P. Coats (R. I.) Inc. No. 146,580; Sept. 13; v. 290; p. 422.  
 Thread and yarn. H. E. Locke & Company. No. 138,663; Jan. 4; v. 282; p. 188.  
 Thread and yarn. H. E. Locke & Company. No. 145,510; Aug. 2; v. 289; p. 185.  
 Thread and yarn. H. E. Locke & Company, Inc. No. 148,591; Nov. 15.  
 Thread and yarn. Mutual Thread Co. No. 139,089; Jan. 18; v. 282; p. 560.  
 Thread and yarn. Stevens Yarn Company. No. 147,465; Oct. 18.  
 Thread and yarn. Türk Gesellschaft mit beschränkter Haftung. No. 144,073; June 21; v. 287; p. 583.  
 Thread and yarn. Cotton and silk. Nonotuck Silk Company. No. 142,809; May 10; v. 286; p. 405.  
 Thread and yarns. The West End Thread Company. No. 138,739; Jan. 4; v. 282; p. 190.  
 Thread, Cotton. C. Spicehandler. No. 139,399; Feb. 1; v. 283; p. 172.  
 Thread, Cotton. C. Spicehandler. Nos. 141,235-6; Apr. 12; v. 285; p. 384.  
 Thread, Linen. Barbour Brothers Company. No. 149,755; Dec. 20.  
 Thread, Linen. Barbour Flax Spinning Company. No. 142,443; May 17; v. 286; p. 624.  
 Thread, Linen. International Linen Company. No. 144,189; June 28; v. 287; p. 774.  
 Thread, Linen. Lincen Thread Company. No. 144,832; July 19; v. 288; p. 619.  
 Thread, Mercerized. Sea Island Thread Co. No. 147,247; Oct. 4.  
 Thread, Sewing-. Holland Mfg. Co. No. 147,222; Oct. 4.  
 Thread, Shoe-. Victor Shoe Machinery Company. No. 148,292; Nov. 8.  
 Thread, Shoe and linen. Barbour Flax Spinning Company. Nos. 141,080-2; Apr. 12; v. 285; p. 379.  
 Thread, Silk. Belding Bros. & Co. No. 145,041; July 26; v. 288; p. 811.  
 Thread, Silk. Silk Yarn Trading Company. No. 142,129; May 3; v. 286; p. 190.  
 Threads and cottons, Silk and embroidery. Nonotuck Silk Company. No. 143,415; May 31; v. 286; p. 1051.  
 Threads and yarns. J. E. Barbour Company. Nos. 142,233-4; May 10; v. 286; p. 403.  
 Threads and yarns. Sea Island Thread Co. No. 145,222; July 26; v. 288; p. 817.

Threads of flax, hemp, &c. Blackstaff Flax Spinning & Weaving Co. No. 144,350; July 5; v. 288; p. 191.  
 Threads of flax, hemp, &c. Blackstaff Flax Spg. & Wvg. Co. No. 147,930; Nov. 8.  
 Threads of flax, hemp, &c. Blackstaff Flax Spinning & Weaving Company. No. 145,043; July 26; v. 288; p. 811.  
 Threads, Sewing-. Max Pollack & Co. Nos. 146,842-5; Sept. 20; v. 290; p. 636.  
 Threads, twists, yarns. Dollfus Mieg & Cie. Societe Anonyme. No. 143,934; June 21; v. 287; p. 578.  
 Threads, twists, yarns. Dollfus Mieg & Cie. Societe Anonyme. No. 143,936; June 21; v. 287; p. 578.  
 Threshing machinery, &c. Frick Company. No. 149,674; Dec. 20.  
 Threshing machinery, sawmills, &c. Frick Company. No. 143,952; June 21; v. 287; p. 579.  
 Ticking. American Importing Co. No. 141,475; Apr. 26; v. 285; p. 777.  
 Ticking. Marshall Field & Company. No. 144,000; June 21; v. 287; p. 580.  
 Ticking. Sears, Roebuck and Co. No. 143,462; May 31; v. 286; p. 1053.  
 Ticking, Bed-. Blue Buckle Cotton Mills. No. 145,498; Aug. 2; v. 289; p. 183.  
 Ticking in the piece. Sears, Roebuck and Co. No. 145,220; July 26; v. 288; p. 817.  
 Tickings. I. Laden. No. 148,120; Nov. 8.  
 Tickings, cotton suitings, muslins, serges, &c. H. Hausman & Company. No. 146,764; Sept. 20; v. 290; p. 634.  
 Tie-clasps, collar-holders, &c. Taunton Pearl Works. No. 147,703; Oct. 25.  
 Tile, Building-. Hollow Building Tile Association. No. 141,573; Apr. 26; v. 285; p. 780.  
 Tiles. Beaver Falls Art Tile Co. No. 141,866; May 3; v. 286; p. 182.  
 Tiles and bricks for furnaces, Refractory. Laclede-Christy Clay Products Company. No. 142,287; May 10; v. 286; p. 404.  
 Tiles and terrazzo, Safety-tread. Norton Company. Nos. 145,426-7; Aug. 2; v. 289; p. 180.  
 Tiles, Wall, floor, and ceiling. American Encaustic Tiling Co. No. 144,506; July 5; v. 288; p. 197.  
 Timber, Raw. American Pitch Pine Export Company. No. 140,545; Mar. 22; v. 284; p. 743.  
 Time-glasses. J. L. Devenny. No. 140,793; Mar. 29; v. 284; p. 943.  
 Timepieces. F. W. Alter. No. 141,307; Apr. 19; v. 285; p. 565.  
 Timepieces. F. W. Alter. No. 147,533; Oct. 25.  
 Timepieces. Paul Ditisheim S. A. Nos. 139,786-9; Feb. 22; v. 283; p. 752.  
 Timers and commutators. M-R Company. No. 145,421; Aug. 2; v. 289; p. 180.  
 Tin, copper, &c. Certain named. Nichthaus & Levy. No. 149,600; Dec. 13.  
 Tire and tube repairs, Rubber. Continental Rubber Co. No. 147,480; Oct. 18.  
 Tire and tube valve and gage combined. Tireometer Valve Corporation of America. No. 139,648; Feb. 8; v. 283; p. 354.  
 Tire carriers, Spare-. L. Rothschild. No. 147,678; Oct. 25.  
 Tire casing and tubes, Automobile-. Corona Cord Tire Company. No. 148,807; Nov. 29.  
 Tire casings and tubes of rubber. Achilles Rubber and Tire Company. No. 141,824; May 3; v. 286; p. 181.  
 Tire casings and tubes, Rubber. Achilles Rubber and Tire Co., Inc. No. 148,965; Dec. 6.  
 Tire casings and tubes, Rubber automobile. The Batavia Rubber Company. No. 139,248; Feb. 1; v. 283; p. 167.  
 Tire casings or shoes and inner tubes. Syracuse Rubber Co. No. 140,444; Mar. 15; v. 284; p. 583.  
 Tire casings, Pneumatic-. New Castle Rubber Co. No. 142,307; May 10; v. 286; p. 405.  
 Tire casings, Retreads for attachment to the outer surfaces of worn pneumatic-. George W. Eno Rubber Company. No. 145,356; Aug. 2; v. 289; p. 178.  
 Tire-chains. Columbus McKinnon Chain Company. No. 141,523; Apr. 26; v. 285; p. 778.  
 Tire-covers. Crawford Manufacturing Co. No. 145,343; Aug. 2; v. 289; p. 178.  
 Tire-covers, Flexible fabric. Parker & Waterman Manufacturing Co. No. 145,431; Aug. 2; v. 289; p. 180.  
 Tire fabric, Canvas, duck, &c. W. W. Edelstone. No. 145,084; July 26; v. 288; p. 813.  
 Tire-fillers. N. W. Finch. No. 149,920; Dec. 27.  
 Tire-fillers made of spongy rubber. Elgin Rubber Ace Company. Nos. 140,374-6; Mar. 15; v. 284; p. 581.  
 Tire-fittings. Dill Manufacturing Company. No. 140,267; Mar. 8; v. 284; p. 370.  
 Tire inner tubes. Marathon Tire & Rubber Company. No. 140,480; Mar. 15; v. 284; p. 584.  
 Tire-jimmies. Wallace Barnes Co. No. 140,744; Mar. 29; v. 284; p. 941.  
 Tire patch, Automobile-. E. J. O'Connell. No. 138,684; Jan. 4; v. 282; p. 188.  
 Tire patch, Pneumatic-. W. C. Knott. No. 141,154; Apr. 12; v. 285; p. 381.  
 Tire-patches. Alligator Grip Company. No. 139,236; Feb. 1; v. 283; p. 167.  
 Tire-patches. Conrad Wilkey & Co. No. 147,433; Oct. 11.  
 Tire, &c., patches. H. R. Hoffeld. No. 143,368; May 31; v. 286; p. 1050.



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- Tire-patches. Jones & Jones Company. No. 140,848; Mar. 29; v. 284; p. 945.
- Tire-patches. Justa Manufacturing Company. No. 145,125; July 26; v. 288; p. 814.
- Tire-patches. J. M. Stucker. No. 146,147; Aug. 30; v. 289; p. 1015.
- Tire-patches. Tigers Claw Manufacturing Company. No. 140,450; Mar. 15; v. 284; p. 583.
- Tire-patches. United States Tire Company. No. 143,838; June 7; v. 287; p. 194.
- Tire-protectors and antiskid-chains. R. McCormick. No. 148,335; Nov. 8.
- Tire-pumps. Bridgeport Brass Company. No. 147,757; Nov. 1.
- Tire-pumps. Reece-Hilton, Inc. No. 139,023; Jan. 18; v. 282; p. 555.
- Tire-pumps and grease-guns. B. & S. Manufacturing Co. No. 145,544; Aug. 9; v. 289; p. 407.
- Tire-reinforcements. American Automobile Accessories Company. No. 140,024; Mar. 1; v. 284; p. 175.
- Tire-repair composition. G. W. Collins. No. 144,727; July 19; v. 288; p. 616.
- Tire-repair equipment. Haywood Tire & Equipment Company. No. 148,429; Nov. 15.
- Tire-repair outfits. Dunlop Rubber Company. No. 149,369; Dec. 13.
- Tire-rims to the wheels of automobiles, Clamps for securing. R. C. Loock. No. 143,389; May 31; v. 286; p. 1050.
- Tire shoes and rubber inner tubes, Pneumatic. Ramo Tire & Rubber Co. No. 140,944; Mar. 29; v. 284; p. 948.
- Tire-tubes and tire-casings, Inner. Sioux City Tire and Manufacturing Company. No. 145,459; Aug. 2; v. 289; p. 181.
- Tire tubes, Automobile. American Wholesale Corporation. No. 145,311; Aug. 2; v. 289; p. 177.
- Tire-tubes, tube-patches, &c. Money Back Laboratories. Nos. 140,899-901; Mar. 29; v. 284; p. 946.
- Tire tubings and casings made of rubber. National Sales Company. No. 142,065; May 3; v. 286; p. 188.
- Tire-valve. Automatic Safety Tire Valve Corporation. No. 139,442; Feb. 1; v. 283; p. 174.
- Tire-valve fixtures. Automatic Safety Tire Valve Corporation. No. 139,480; Feb. 8; v. 283; p. 349.
- Tire-valves, Dust caps for. P. A. Erbes. No. 142,516; May 17; v. 286; p. 626.
- Tires. Dayton Rubber Mfg. Company. No. 145,648; Aug. 16; v. 289; p. 592.
- Tires. Dunlop Rubber Company. No. 143,587; June 7; v. 287; p. 182.
- Tires. Racine Rubber Company. No. 139,953; Feb. 22; v. 283; p. 760.
- Tires, &c., Air-valves for automobile. Griffin Mfg. Co. No. 143,959; June 21; v. 287; p. 579.
- Tires and inner tubes. India Tire & Rubber Co. No. 145,508; Aug. 2; v. 289; p. 185.
- Tires and inner tubes. Owen Tire and Rubber Company. No. 139,364; Feb. 1; v. 283; p. 171.
- Tires and inner tubes for same. Quick Tire Service. No. 141,209; Apr. 12; v. 285; p. 383.
- Tires and inner tubes for same, Rubber and fabric outer casings for pneumatic automobile. Victor Rubber Company, The. No. 149,278; Dec. 6.
- Tires and inner tubes, Pneumatic vehicle. The India Tire and Rubber Company. No. 148,445; Nov. 15.
- Tires and inner tubes, Resilient. Firestone Tire and Rubber Company. No. 144,391; July 5; v. 288; p. 192.
- Tires and inner tubes, Rubber. Standard Four Tire Company. No. 145,821; Aug. 16; v. 289; p. 598.
- Tires and inner tubes, Rubber automobile and truck. Romanjo Tire Company. No. 141,056; Apr. 5; v. 285; p. 187.
- Tires and inner tubes, Vulcanizing-patches for automobile. V. V. Moore. No. 141,617; Apr. 26; v. 285; p. 781.
- Tires and interliners, Pneumatic. Ray Tire & Rubber Company. No. 141,645; Apr. 26; v. 285; p. 782.
- Tires and non-adhesive rubber sheets, Certain. B. F. Goodrich Company. No. 149,777; Dec. 20.
- Tires and parts thereof, Rubber. Dunlop Tire and Rubber Corporation of America. No. 146,728; Sept. 20; v. 290; p. 633.
- Tires and tire accessories. The Oldfield Tire Company. No. 139,593; Feb. 8; v. 283; p. 352.
- Tires and tire casings, Rubber inner tubes for. New Castle Rubber Co. No. 139,178; Jan. 25; v. 282; p. 735.
- Tires and treads therefor, Vehicle. Goodyear Tire & Rubber Company. No. 146,033; Aug. 23; v. 289; p. 792.
- Tires and tubes. Spreckles "Savage" Tire Company. No. 146,370; Sept. 6; v. 290; p. 203.
- Tires and tubes and tire accessories, Rubber pneumatic. Double Fabric Tire Company. No. 147,995; Nov. 8.
- Tires and tubes for vehicles. Racine Rubber Company. Nos. 145,180-1; July 26; v. 288; p. 816.
- Tires and tubes of rubber, Automobile. Automobile Owners' Tire Corporation. No. 148,785; Nov. 29.
- Tires and tubes of rubber, Automobile. Howe Rubber Corporation. No. 149,583; Dec. 13.
- Tires and tubes, Pneumatic. Goodyear Tire & Rubber Company. No. 141,946; May 3; v. 286; p. 185.
- Tires and tubes, Repair outfits for automobile. W. S. Johnson. No. 142,373; May 10; v. 286; p. 408.
- Tires and tubes, Rubber. Amalgamated Tire Stores Corporation. No. 148,344; Nov. 15.
- Tires and tubes, Rubber. Cupples Company Manufacturers. No. 148,810; Nov. 29.
- Tires and tubes, Rubber. Dayton Rubber Manufacturing Co. No. 147,726; Oct. 25.
- Tires and tubes, Rubber. Longwear Rubber Company. No. 146,930; Sept. 20; v. 290; p. 641.
- Tires and tubes, Rubber. McGraw Tire & Rubber Company. No. 142,294; May 10; v. 286; p. 405.
- Tires and tubes, Rubber. National Tire & Rubber Company. No. 144,879; July 19; v. 288; p. 621.
- Tires and tubes, Rubber. Newman Tire & Rubber Company. No. 141,790; Apr. 26; v. 285; p. 791.
- Tires and tubes therefor, Rubber vehicle. The Converse Rubber Shoe Company. No. 140,582; Mar. 22; v. 284; p. 744.
- Tires, Automobile. Dryden Rubber Company. No. 138,758; Jan. 4; v. 282; p. 191.
- Tires, Automobile. Sam Breth Wholesale Specialties. No. 149,495; Dec. 13.
- Tires, Blow-out shoes for. Peerless Blowout Shoe Company. No. 139,466; Feb. 1; v. 283; p. 176.
- Tires, casings, and tubes, Rubber. Marathon Tire & Rubber Co. No. 144,433; July 5; v. 288; p. 194.
- Tires, casings, and tubes, Rubber. Marathon Tire & Rubber Co. No. 144,859; July 19; v. 288; p. 620.
- Tires, casings, and tubes, Rubber vehicle. Lincoln Tire & Rubber Co. No. 146,929; Sept. 20; v. 290; p. 641.
- Tires, casings, inner tubes, tire-patches. McLean Tire & Rubber Company. No. 148,471; Nov. 15.
- Tires, Certain outer casings, and inner tubes for. New South Rubber Company. No. 147,376; Oct. 11.
- Tires constructed of rubber and fabric, Automobile. E. A. Jaquins. No. 148,452; Nov. 15.
- Tires for automobiles, Rubber. Studebaker Corporation. No. 145,525; Aug. 2; v. 289; p. 187.
- Tires for automobiles, Rubber and fabric pneumatic. A. Faure. No. 146,569; Sept. 13; v. 290; p. 421.
- Tires for vehicles and accessories used in automobile trade. Star Rubber Company. No. 140,223; Mar. 8; v. 284; p. 367.
- Tires for vehicles and inner tubes for pneumatic tires. Standard Four Tire Company. No. 145,820; Aug. 16; v. 289; p. 598.
- Tires for vehicles, Solid rubber. United States Tire Company. No. 139,419; Feb. 1; v. 283; p. 172.
- Tires, inner linings and tubes, &c., Automobile. C. Palmer. No. 141,194; Apr. 12; v. 285; p. 383.
- Tires, Inner tubing for use in. J. T. McMahon. No. 145,405; Aug. 2; v. 289; p. 180.
- Tires, Liquid preparation for healing punctures in pneumatic. Mundial Trading Co. Inc. No. 142,058; May 3; v. 286; p. 188.
- Tires made of rubber, Vehicle. Reverse Rubber Company. No. 145,795; Aug. 16; v. 289; p. 597.
- Tires made of rubber, Vehicle. G. & J. Tire Company. No. 143,874; June 14; v. 287; p. 402.
- Tires made of rubber, Vehicle. United States Tire Company. No. 145,528; Aug. 2; v. 289; p. 187.
- Tires, Outer tubes or shoes for pneumatic. Service Auto Equipment Corporation. No. 145,007; July 19; v. 288; p. 628.
- Tires, Patch employed in mending automobile. Vulca Laboratories. No. 139,907; Feb. 22; v. 283; p. 756.
- Tires, Pneumatic rubber. Alexander Bennie & Co. No. 140,326; Mar. 15; v. 284; p. 579.
- Tires, Pneumatic rubber. Parker Tire & Rubber Company. No. 146,594; Sept. 13; v. 290; p. 422.
- Tires, Reliners for rubber or leather. A. Finkelsieper. No. 149,574; Dec. 13.
- Tires, Repair shoes and patches for pneumatic. The Wilson Rubber Company. No. 138,744; Jan. 4; v. 282; p. 190.
- Tires, Retreaded rubber and fabric. D. A. Sanders. No. 139,879; Feb. 22; v. 283; p. 755.
- Tires, Rubber. Bergougnan Rubber Corporation. No. 141,029; Mar. 29; v. 284; p. 951.
- Tires, Rubber. Denman-Myers Cord Tire Company. No. 144,740; July 19; v. 288; p. 617.
- Tires, Rubber. Doss Rubber & Tube Co., Inc., The. Nos. 144,993-5; July 19; v. 288; p. 625.
- Tires, Rubber. Doss Rubber & Tube Co. No. 146,454; Sept. 6; v. 290; p. 210.
- Tires, Rubber. S. H. Goldberg. No. 148,417; Nov. 15.
- Tires, Rubber. International India Rubber Corporation. Nos. 138,647-8; Jan. 4; v. 282; p. 187.
- Tires, Rubber. Madison Tire and Rubber Company. No. 142,297; May 10; v. 286; p. 405.
- Tires, Rubber. Master Tire and Rubber Company. No. 142,615; May 17; v. 286; p. 629.
- Tires, Rubber and fabric. Racine Rubber Company. No. 145,788; Aug. 16; v. 289; p. 597.
- Tires, Rubber bicycle. Mead Cycle Company. No. 142,020; May 3; v. 286; p. 187.
- Tires, Rubber-coated-fabric inner. George W. Eno Rubber Company. No. 145,355; Aug. 2; v. 289; p. 178.
- Tires, Rubber inner tubes for automobile. Sam Breth Wholesale Specialties. No. 149,496; Dec. 13.
- Tires, Rubber pneumatic. Victory Rubber Manufacturing Co. No. 145,200; July 26; v. 288; p. 816.
- Tires, Rubber vehicle. J. C. Dawson. No. 138,607; Jan. 4; v. 282; p. 186.



- Tires, Rubber vehicle-. Hartford Rubber Works Company. No. 145,109; July 26; v. 288; p. 813.
- Tires, Rubber vehicle-. Hood Rubber Company. No. 143,248; May 24; v. 286; p. 856.
- Tires, Rubber vehicle-. Norwalk Tire & Rubber Company. No. 147,241; Oct. 4.
- Tires, Rubber vehicle-. Revere Rubber Company. No. 145,186; July 26; v. 288; p. 816.
- Tires, Rubber vehicle-. Standard Tire Company. No. 145,819; Aug. 16; v. 289; p. 598.
- Tires, Rubber vehicle-. G & J Tire Company. No. 142,394; May 10; v. 286; p. 411.
- Tires, Rubber vehicle-. United States Tire Company. No. 143,526; May 31; v. 286; p. 1056.
- Tires, Rubber vehicle-. United States Tire Company. No. 145,018; July 19; v. 288; p. 629.
- Tires, tubes, and tire accessories. Firestone Tire and Rubber Company. No. 140,804; Mar. 29; v. 284; p. 943.
- Tires, tubes, casings, &c. Falls Rubber Company. No. 142,262; May 10; v. 286; p. 404.
- Tires, tubes, outer cases. Braender Rubber & Tire Co. No. 145,046; July 26; v. 288; p. 811.
- Tires, tubes, &c. Rubber. C. C. C. Fire Hose Co. No. 141,511; Apr. 26; v. 285; p. 778.
- Tires, tubes, &c. Rubber for. C. L. Marshall. No. 146,811; Sept. 20; v. 290; p. 635.
- Tires, tubes, tire boots and patches. Washington Tire & Rubber Company. No. 139,424; Feb. 1; v. 283; p. 172.
- Tires, tubes, tire-repair materials and accessories. India Tire and Rubber Company. No. 146,648; Sept. 13; v. 290; p. 427.
- Tires, Vehicle-. Federal Rubber Company. Nos. 149,917-8; Dec. 27.
- Tires, Woven fabrics for vehicle-. Thistle Cotton Mills. No. 140,449; Mar. 15; v. 284; p. 583.
- Tissue, Book and document mending. F. A. Stewart. No. 145,227; July 26; v. 288; p. 817.
- Tissue, paper, leather, pasteboard, and cloth, Machines for working on. Societe des Moteurs Gnome et Rhone. No. 143,176; May 24; v. 286; p. 851.
- Titanium sulfate. Peter Spence & Sons. No. 145,818; Aug. 16; v. 289; p. 598.
- Title of a newspaper-section. New York Tribune. No. 147,801; Nov. 1.
- Title of trade pamphlet issued monthly. Goshen Sash and Door Company. No. 148,055; Nov. 8.
- Toast. Excelsior Baking Company. No. 145,359; Aug. 2; v. 289; p. 178.
- Toasters, Electric. Rutenber Electric Co. No. 146,604; Sept. 13; v. 290; p. 422.
- Tobacco. American Tobacco Company. No. 142,424-8; May 17; v. 286; p. 623-4.
- Tobacco and cigarettes. American Tobacco Company. No. 146,164; Sept. 6; v. 290; p. 197.
- Tobacco and cigarettes. Liggett & Myers Tobacco Company. No. 142,670; May 17; v. 286; p. 631.
- Tobacco and cigarettes. Liggett & Myers Tobacco Company. No. 142,676; May 17; v. 286; p. 631.
- Tobacco and cigarettes. Piedmont Tobacco Co. No. 142,892; May 17; v. 286; p. 641.
- Tobacco, Antidote and substitute for. Trust Estate of Adolph C. Meyer, Deceased. No. 149,161; Dec. 6.
- Tobacco, Leaf-. Henry Bohme & Sons, Inc. No. 142,563; May 17; v. 286; p. 628.
- Tobacco, Leaf-. Liggett & Myers Tobacco Co. No. 139,568; Feb. 8; v. 283; p. 352.
- Tobacco, Leaf-. Liggett & Myers Tobacco Co. No. 144,240; June 28; v. 287; p. 775.
- Tobacco, Leaf-. Liggett & Myers Tobacco Co. No. 145,401; Aug. 2; v. 289; p. 180.
- Tobacco, little cigars, cigarettes, Smoking-. The American Tobacco Company. No. 144,166; June 28; v. 287; p. 773.
- Tobacco, natural twist, and cigarettes, Smoking-. W. H. Moberly. No. 144,204; June 28; v. 287; p. 774.
- Tobacco, Plug-. Larus & Brother Company. No. 145,509; Aug. 2; v. 289; p. 185.
- Tobacco-pouches. F. S. Mills Co. No. 143,817; June 7; v. 287; p. 192.
- Tobacco, Smoking-. Ardath Tobacco Company. No. 142,432; May 17; v. 286; p. 624.
- Tobacco, Smoking-. Gunn & Barrick Tobacco Co. No. 142,552; May 17; v. 286; p. 627.
- Tobacco, Smoking and chewing. American Tobacco Company. No. 145,310; Aug. 2; v. 289; p. 177.
- Tobacco, Smoking and chewing. Christian Peper Tobacco Co. No. 141,032; Mar. 29; v. 284; p. 951.
- Tobacco, Smoking and chewing. Christian Peter Tobacco Co. Nos. 142,472-3; May 17; v. 286; p. 625.
- Tobacco-working machinery. Universal Tobacco Machine Co. No. 148,954; Nov. 29.
- Toe and heel protectors. L & W Toe and Heel Savers. No. 149,436; Dec. 13.
- Toffee, English. W. J. Kelleher. No. 146,268; Sept. 6; v. 290; p. 200.
- Toilet and medicinal preparation. Scott's Preparations, Inc. No. 148,919; Nov. 29.
- Toilet and medicinal preparations. J. H. Moore. No. 142,623; May 17; v. 286; p. 629.
- Toilet and pharmaceutical preparations. M. M. Gordon. No. 146,236; Sept. 6; v. 290; p. 199.
- Toilet and pharmaceutical preparations, Certain. Sanitol Chemical Laboratory Co. No. 147,030; Sept. 27; v. 290; p. 805.
- Toilet and tooth powders, shaving-lotion, cold-cream, &c. American Safetee Soap Corporation. No. 143,889; June 21; v. 287; p. 577.
- Toilet articles. L. Aubert & Cia. No. 142,355; May 10; v. 286; p. 407.
- Toilet articles. Tuskeloid Company, Inc. Nos. 144,287-8; June 28; v. 287; p. 777.
- Toilet, medicinal, and chemical preparations. A. N. Gaebler. No. 145,953; Aug. 23; v. 289; p. 787.
- Toilet, medicinal, and pharmaceutical preparations. C. T. Duncan. No. 146,213; Sept. 6; v. 290; p. 199.
- Toilet partitions, Metal. Hughes-Keenan Company. No. 149,952; Dec. 27.
- Toilet powders. International Consolidated Chemical Corporation. No. 139,683; Feb. 8; v. 283; p. 357.
- Toilet preparation. E. D. Lennox. No. 144,033; June 21; v. 287; p. 581.
- Toilet preparation, Certain. G. S. Kolar Laboratories. No. 149,133; Dec. 6.
- Toilet preparation, Certain. E. L. Petersen. No. 150,053; Dec. 27.
- Toilet preparation, Semimedical. La Valliere Company. No. 140,419; Mar. 15; v. 284; p. 582.
- Toilet preparation to reduce superfluous flesh. Scott's Preparations, Inc. No. 148,257; Nov. 8.
- Toilet preparation used as a face-pack. A. Knapp. No. 149,973; Dec. 27.
- Toilet preparations. B. Altman & Co. No. 138,932; Jan. 18; v. 282; p. 553.
- Toilet preparations. Associated Merchandising Corporation. No. 148,349; Nov. 15.
- Toilet preparations. Barclay & Co. No. 141,316; Apr. 19; v. 285; p. 565.
- Toilet preparations. Berry, Demoville & Company. No. 140,554; Mar. 22; v. 284; p. 743.
- Toilet preparations. J. M. Blanco. No. 145,610; Aug. 16; v. 289; p. 591.
- Toilet preparations. Geo. Borgfeldt & Co. No. 143,558; June 7; v. 287; p. 182.
- Toilet preparations. S. L. Cheek. No. 148,377; Nov. 15.
- Toilet preparations. Crown Chemical Company. No. 144,561; July 12; v. 288; p. 423.
- Toilet preparations. Cutex Corporation. No. 142,973; May 24; v. 286; p. 845.
- Toilet preparations. Madam De Florence Hair Specialty Co. No. 140,789; Mar. 29; v. 284; p. 943.
- Toilet preparations. Estasi Perfumery Co. No. 142,998; May 24; v. 286; p. 845.
- Toilet preparations. H. Gabilla. No. 148,033; Nov. 8.
- Toilet preparations. F. H. Green. No. 146,238; Sept. 6; v. 290; p. 199.
- Toilet preparations. M. R. Green. No. 139,804; Feb. 22; v. 283; p. 752.
- Toilet preparations. Est. Henry C. Miner, Inc. No. 145,748; Aug. 16; v. 289; p. 595.
- Toilet preparations. Hessig-Ellis Drug Company. No. 139,680; Feb. 8; v. 283; p. 357.
- Toilet preparations. A. L. Hill. No. 140,143; Mar. 8; v. 284; p. 365.
- Toilet preparations. K. Hochrack. No. 143,044; May 24; v. 286; p. 847.
- Toilet preparations. G. D. Hofe. No. 139,815; Feb. 22; v. 283; p. 753.
- Toilet preparations. Ideal Laboratories Company. Nos. 141,975-6; May 3; v. 286; p. 185.
- Toilet preparations. D. Jaquet. No. 139,329; Feb. 1; v. 283; p. 170.
- Toilet preparations, &c. A. E. Kiesling. No. 146,112; Aug. 30; v. 289; p. 1014.
- Toilet preparations. Larkin Co. No. 139,155; Jan. 25; v. 282; p. 734.
- Toilet preparations. F. J. London. No. 145,730; Aug. 16; v. 289; p. 595.
- Toilet preparations. Marjen Company. No. 139,834; Feb. 22; v. 283; p. 753.
- Toilet preparations. Marshall Field & Company. No. 149,157; Dec. 6.
- Toilet preparations. The J. E. Martin Co. No. 139,162; Jan. 25; v. 282; p. 734.
- Toilet preparations. J. A. Migel, Inc. No. 142,885; May 17; v. 286; p. 640.
- Toilet preparations. Morgan Laboratories. No. 140,902; Mar. 29; v. 284; p. 946.
- Toilet preparations. V. Mosley. No. 143,521; May 31; v. 286; p. 1055.
- Toilet preparations. Mulhens & Kropff. No. 144,207; June 28; v. 287; p. 774.
- Toilet preparations. Mutual Drug Company. No. 140,909; Mar. 29; v. 284; p. 946.
- Toilet preparations. T. Nakayama. No. 139,841; Feb. 22; v. 283; p. 754.
- Toilet preparations. National Pharmaceutical Corporation. No. 145,756; Aug. 16; v. 289; p. 596.
- Toilet preparations. Nazma Mfg. Co. Nos. 140,914-15; Mar. 29; v. 284; p. 947.
- Toilet preparations. S. Neiman. No. 139,854; Feb. 22; v. 283; p. 754.
- Toilet preparations. Northam Warren Corporation. No. 141,420; Apr. 19; v. 285; p. 568.



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- Toilet preparations, Northam Warren Corporation. No. 143,821; June 7; v. 287; p. 193.
- Toilet preparations, Parfumerie Lournay, Inc. No. 145,990; Aug. 23; v. 289; p. 789.
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- Toilet preparations, Paris Toilet Company. No. 143,130; May 24; v. 286; p. 850.
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- Toilet preparations, Puritan Pharmaceutical Co. No. 139,190; Jan. 25; v. 282; p. 735.
- Toilet preparations, Puritan Pharmaceutical Co. No. 144,896; July 19; v. 288; p. 621.
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- Toilet preparations, Rimané, Incorporated. No. 143,149; May 24; v. 286; p. 850.
- Toilet preparations, Roosa & Ratliff Chemical Co. No. 138,855; Jan. 11; v. 282; p. 377.
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- Toilet preparations, E. Stormer. No. 140,984; Mar. 29; v. 284; p. 949.
- Toilet preparations, Talcum Puff Co. Nos. 138,874-5; Jan. 11; v. 282; p. 378.
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- Toilet preparations, J. Tanenbaum. No. 138,876; Jan. 11; v. 282; p. 378.
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- Toilet preparations, V. Vivaudou, Inc. No. 141,002; Mar. 29; v. 284; p. 949.
- Toilet preparations, V. Vivaudou, Inc. No. 146,013; Aug. 23; v. 289; p. 789.
- Toilet preparations, V. Vivaudou. No. 146,901; Sept. 20; v. 290; p. 638.
- Toilet preparations, Mme. C. J. Walker Mfg. Co. No. 143,212; May 24; v. 286; p. 852.
- Toilet preparations, J. B. Williams Company. No. 146,913; Sept. 20; v. 290; p. 638.
- Toilet preparations, E. C. Wippel. No. 148,316; Nov. 8.
- Toilet preparations, S. E. Wyatt. No. 139,916; Feb. 22; v. 283; p. 756.
- Toilet preparations and a laundry bluing, Mrs. E. Collings. No. 140,778; Mar. 29; v. 284; p. 942.
- Toilet preparations and chemicals, J. F. Barvoets. No. 139,247; Feb. 1; v. 283; p. 167.
- Toilet preparations, Certain, Alfred H. Smith Company. No. 147,168; Oct. 4.
- Toilet preparations, Certain, Alfred H. Smith Company. No. 148,740; Nov. 22.
- Toilet preparations, Certain, Blendinol Co. No. 145,612; Aug. 16; v. 289; p. 591.
- Toilet preparations, Certain, F. J. de S. Coty. No. 147,206; Oct. 4.
- Toilet preparations, Certain, Estasi Perfumery Co. No. 147,093; Oct. 4.
- Toilet preparations, Certain, Houbigant, Inc. No. 147,112; Oct. 4.
- Toilet preparations, Certain, Johnson, Cowdin & Company. Nos. 148,677-8; Nov. 22.
- Toilet preparations, Certain, J. H. Kark. No. 147,118; Oct. 4.
- Toilet preparations, Certain, L. B. Kerlin. No. 147,005; Sept. 27; v. 290; p. 805.
- Toilet preparations, Certain, Klinker Manufacturing Co. Nos. 147,785-6; Nov. 1.
- Toilet preparations, Certain, Lé Benart Import Co. No. 149,138; Dec. 6.
- Toilet preparations, K. M. Lublin. No. 146,284; Sept. 6; v. 290; p. 201.
- Toilet preparations, Certain, A. Overton. No. 147,145; Oct. 4.
- Toilet preparations, Certain, Radior Co. Ltd. of London. No. 147,150; Oct. 4.
- Toilet preparations, Certain, Sté. Anonyme des Produits Dorilly. No. 149,250; Dec. 6.
- Toilet preparations, Certain, Weichsel Barber Supply Co. No. 147,716; Oct. 25.
- Toilet preparations—namely, face-powder, rouge, &c. Araho Co. No. 147,907; Nov. 8.
- Toilet preparations, nerve-paste, &c. S. S. White Dental Manufacturing Company. No. 144,676; July 12; v. 288; p. 429.
- Toilet-seats, Brunswick-Balke-Collender Company. No. 139,495; Feb. 8; v. 283; p. 349.
- Toilet water and perfumes, Atlanta Barbers' Supply Co. No. 150,208; Dec. 27.
- Toilet water and powder, almond-meal, &c. B. Altman & Co. No. 141,832; May 3; v. 286; p. 181.
- Toilet water, perfume extract, &c. A. A. Vantine & Co. No. 140,236; Mar. 8; v. 284; p. 368.
- Toilet water, perfumes, &c. J. E. Mazurier. No. 148,160; Nov. 8.
- Toilet water, pomade, hair-tonic, &c. United Barber Service Co. No. 143,497; May 31; v. 286; p. 1054.
- Toilet-water, retiring-oil, hair-grower, &c. M. R. Sumwalt. No. 140,009; Mar. 1; v. 284; p. 174.
- Toilet waters, perfumes, &c. A. Salikof. No. 147,025; Sept. 27; v. 290; p. 805.
- Toilet waters, perfumes, extracts, cold and face creams, &c. R. H. White Company. No. 144,087; June 21; v. 287; p. 583.
- Tomato spaghetti sauce, U. J. Baccarino. No. 143,761; June 7; v. 287; p. 188.
- Tomato-washing machines, J. Livingston. No. 149,791; Dec. 20.
- Tomatoes, Fresh, F. Biggio & Sons. No. 149,843; Dec. 27.
- Tomatoes, Fresh, Edward E. Lang & Son. No. 140,161; Mar. 8; v. 284; p. 366.
- Tongues, Cured and smoked, M. Wetzsteins. No. 148,626; Nov. 15.
- Tonic, Albano & Gangemi. No. 138,931; Jan. 18; v. 282; p. 553.
- Tonic, A. Besosa. No. 140,328; Mar. 15; v. 284; p. 579.
- Tonic, Cyco Medicine Co. No. 145,941; Aug. 23; v. 289; p. 787.
- Tonic, C. H. Fryer. No. 139,299; Feb. 1; v. 283; p. 169.
- Tonic, International Consolidated Chemical Corporation. No. 140,843; Mar. 29; v. 284; p. 944.
- Tonic, Mihalovitch Co. No. 146,817; Sept. 20; v. 290; p. 635.
- Tonic, United Drug Company. No. 140,457; Mar. 15; v. 284; p. 583.
- Tonic alternative, F. C. Hazenrigg. No. 149,102; Dec. 6.
- Tonic and appetizer for influenza, indigestion, &c. Vedo Medicine Company. No. 146,391; Sept. 6; v. 290; p. 204.
- Tonic and laxative, Scranton Distributing and Manufacturing Company. No. 143,164; May 24; v. 286; p. 851.
- Tonic and nerve, Laxative, W. J. Davies. No. 141,346; Apr. 19; v. 285; p. 566.
- Tonic and pulmonary medicine and tonic, Cerebal. Ulrici Medicine Co. Nos. 140,998-9; Mar. 29; v. 284; p. 949.
- Tonic and restorative preparations, Proto Chemical Co. No. 139,022; Jan. 18; v. 282; p. 555.
- Tonic, Beef, iron, and wine, J. C. Maroney. No. 143,396; May 31; v. 286; p. 1050.
- Tonic, Bitter stomach-, Wills Manufacturing Co. No. 146,408; Sept. 6; v. 290; p. 204.
- Tonic, Certain, Clyde Collins Company. No. 146,968; Sept. 27; v. 290; p. 803.
- Tonic, Certain medicinal, Dr. Peter Fahrney & Sons Co. No. 149,047; Dec. 6.
- Tonic, Chill and fever, W. F. Sibbett. No. 139,209; Jan. 25; v. 282; p. 736.
- Tonic compound for indigestion, torpid liver, &c. United Medico-Chemi Hospital, Inc. No. 146,151; Aug. 30; v. 289; p. 1016.
- Tonic, digestive, laxative, &c. for stomach, liver, or kidney trouble, A. MacDonald. No. 140,624; Mar. 22; v. 284; p. 745.
- Tonic, Female-, William S. Merrell Company. No. 142,025; May 3; v. 286; p. 187.
- Tonic for anemia and nervous diseases, Ulrici Medicine Co. No. 148,952; Nov. 29.
- Tonic for building up and purifying the system, L. Rosenfield. No. 147,396; Oct. 11.
- Tonic for children, Idyl Associated Chemists. No. 140,846; Mar. 29; v. 284; p. 945.
- Tonic for diabetics, Vino Medical Co. No. 150,153; Dec. 27.
- Tonic for hogs, The Avalon Farms Co. No. 138,938; Jan. 18; v. 282; p. 553.
- Tonic for hogs and chickens, United Stock Remedies Co. No. 146,386; Sept. 6; v. 290; p. 204.
- Tonic for live stock, Sugar Belt Live Stock Medicine Co. No. 139,407; Feb. 1; v. 283; p. 172.
- Tonic for the blood and appetite, W. T. Nash. No. 141,621; Apr. 26; v. 285; p. 781.
- Tonic, General, W. B. Bond & Co. No. 146,954; Sept. 27; v. 290; p. 805.
- Tonic, General, Briacea Drug Co. No. 141,326; Apr. 19; v. 285; p. 565.
- Tonic, General, Chester Kent & Co. No. 144,591; July 12; v. 288; p. 424.
- Tonic, General, Crown Products Company. No. 146,720; Sept. 20; v. 290; p. 632.
- Tonic, General, Davis & Lawrence Company. No. 139,973; Mar. 1; v. 284; p. 173.
- Tonic, General, F. A. East. No. 144,381; July 5; v. 288; p. 192.
- Tonic, General, Erb Drug Co. No. 147,092; Oct. 4.
- Tonic, General, F. Herrera. No. 143,977; June 21; v. 287; p. 580.
- Tonic, General, W. G. Holley. No. 146,770; Sept. 20; v. 290; p. 634.
- Tonic, General, M. Kane & Co. No. 148,455; Nov. 15.
- Tonic, General, W. F. Kuhlbach. No. 147,006; Sept. 27; v. 290; p. 805.
- Tonic, General, Lebro Mfg. Company. No. 140,003; Mar. 1; v. 284; p. 174.



- Tonic, General. D. Maddaloni. No. 147,009; Sept. 27; v. 290; p. 805.
- Tonic, General. McGuire Medicine Co. No. 142,295; May 10; v. 286; p. 405.
- Tonic, General. Dr. B. E. Neal Medicine Company. No. 148,490; Nov. 15.
- Tonic, General. Nedro Laboratories, Inc. No. 148,905; Nov. 29.
- Tonic, General. Nux-I-Kola Company. No. 148,699; Nov. 22.
- Tonic, General. W. S. Pickering. No. 147,019; Sept. 27; v. 290; p. 805.
- Tonic, General. Scranton Distributing and Manufacturing Company. No. 147,032; Sept. 27; v. 290; p. 806.
- Tonic, General. Strantz Company. No. 147,038; Sept. 27; v. 290; p. 806.
- Tonic. C. A. Suhr. No. 148,276; Nov. 8.
- Tonic, General. H. E. Templin. No. 139,902; Feb. 22; v. 283; p. 755.
- Tonic, General. Thompson and Capper. No. 145,839; Aug. 16; v. 289; p. 598.
- Tonic, General. A. W. Van Bysterveld. No. 146,897; Sept. 20; v. 290; p. 638.
- Tonic, General. J. A. Welch. No. 144,085; June 21; v. 287; p. 583.
- Tonic, General medicinal. Klor-Early Company. No. 140,861; Mar. 29; v. 284; p. 945.
- Tonic, Hair-. John Hart Brittain, Inc. No. 147,074; Oct. 4.
- Tonic, Hair-. Harrods (North America) Ltd. No. 146,244; Sept. 6; v. 290; p. 199.
- Tonic, Hog-. O. D. Cawcock. No. 145,680; Aug. 16; v. 289; p. 593.
- Tonic, Hydrastis and Iron compound. William S. Merrell Company. No. 142,023; May 3; v. 286; p. 187.
- Tonic, Iron. Dr. V. Serravallo. No. 139,696; Feb. 8; v. 283; p. 358.
- Tonic, Laxative. McGuire Medicine Co. No. 142,296; May 10; v. 286; p. 405.
- Tonic, Laxative. D. G. Pardue. No. 144,621; July 12; v. 288; p. 425.
- Tonic, Laxative. C. G. Watson. No. 143,219; May 24; v. 286; p. 852.
- Tonic, laxative, and diuretic for stomach troubles. Scranton Distributing and Manufacturing Company. No. 146,356; Sept. 6; v. 290; p. 203.
- Tonic, Liquid. H. Fierman. No. 147,772; Nov. 1.
- Tonic, Liquid. J. F. Martin. No. 143,079; May 24; v. 286; p. 848.
- Tonic, Liver-. O. Mausert. No. 150,002; Dec. 27.
- Tonic, Medical. D. & D. Remedy Company. No. 149,897; Dec. 27.
- Tonics, Medicinal. Coleman & Company. No. 141,521; Apr. 26; v. 285; p. 778.
- Tonic, Medicinal. E. L. Kilcoyne. No. 145,707; Aug. 16; v. 289; p. 594.
- Tonic, Medicinal. J. C. Trainer. No. 144,072; June 21; v. 287; p. 583.
- Tonic, Medicinal food. Mazomul Company. No. 147,010; Sept. 27; v. 290; p. 805.
- Tonic, Medicine. Dr. Peter Fabrney & Sons Co. No. 144,568; July 12; v. 288; p. 423.
- Tonic, Nerve-. A. C. Woodley. No. 150,186; Dec. 27.
- Tonic, Nerve and blood. C. J. Flom. No. 147,097; Oct. 4.
- Tonic of cod-liver extract, malt, wild cherry, and hypophosphates. Interstate Drug Company. No. 147,115; Oct. 4.
- Tonic, Reconstructive. Bosak Manufacturing Co. No. 146,182; Sept. 6; v. 290; p. 198.
- Tonic, Reconstructive, &c. A. M. Kronberger. No. 148,118; Nov. 8.
- Tonic, Reconstructive. Lax-Ton-All Co. No. 146,278; Sept. 6; v. 290; p. 200.
- Tonic, Reconstructive. P. A. Williams. No. 145,869; Aug. 16; v. 289; p. 599.
- Tonic, salve, and cough-syrup. Ferraline Medicine Company. No. 142,264; May 10; v. 286; p. 404.
- Tonic-tablets, General-. United States Chemical Co. No. 147,179; Oct. 4.
- Tonic, Uterine. Sharp & Dohme. No. 146,503; Sept. 6; v. 290; p. 215.
- Tonic, Uterine. C. E. Tomhagen. No. 140,231; Mar. 8; v. 284; p. 368.
- Tonics. W. F. Severa Co. No. 140,433; Mar. 15; v. 284; p. 582.
- Tonics and dressings for the hair and scalp. P. Davis. No. 149,028; Dec. 6.
- Tonics and dressings for the hair and scalp. A. J. Mills. No. 144,088; June 21; v. 287; p. 583.
- Tonics and dressings for the hair and scalp. L. Mumford. No. 149,177; Dec. 6.
- Tonics and worm-powders, Stock-. Sheats Stock Tonic Company. No. 139,034; Jan. 18; v. 282; p. 556.
- Tonics, General. F. A. Weinstein. No. 149,285; Dec. 6.
- Tonics, General. Zipern & Robins. No. 144,300; June 28; v. 287; p. 777.
- Tonics, Hair-. V. Mosley. No. 143,859; June 14; v. 287; p. 400.
- Tonics, Poultry-. Cotto Waxo Co. No. 146,718; Sept. 20; v. 290; p. 632.
- Tool and machine handles and ferrules. G. B. Doane. No. 149,663; Dec. 20.
- Tool and machinery for working metal. Tool & Auto Products Company. No. 143,198; May 24; v. 286; p. 852.
- Tool-steel in bars, billets, and shapes. The Carpenter Steel Company. Nos. 138,786-8; Jan. 11; v. 282; p. 375.
- Tool-steels in bars, billets, and shapes. The Carpenter Steel Company. No. 138,784; Jan. 11; v. 282; p. 375.
- Tool-steels in bars, billets, and shapes. The Carpenter Steel Company. No. 138,792; Jan. 11; v. 282; p. 375.
- Tool-steels in bars, billets, and shapes. The Carpenter Steel Company. No. 138,794; Jan. 11; v. 282; p. 375.
- Tools. A. V. Roe & Co. Nos. 140,954-5; Mar. 29; v. 284; p. 948.
- Tools. Vaughan & Bushnell Manufacturing Company. No. 139,658; Feb. 8; v. 283; p. 354.
- Tools and machinery. Danielson Tool Company. No. 142,252; May 10; v. 286; p. 403.
- Tools and machinery. William Sellers & Company. No. 138,861; Jan. 11; v. 282; p. 378.
- Tools and machinery. Pneumatic. Chicago Pneumatic Tool Company. No. 149,357; Dec. 13.
- Tools and parts of machinery, Certain. Greenfield Tap and Die Corporation. Nos. 147,819-22; Oct. 11.
- Tools and parts of machinery, Certain. Greenfield Tap and Die Corporation. No. 141,975; Dec. 27.
- Tools, Certain. G. F. Hickok. No. 146,249; Sept. 6; v. 290; p. 200.
- Tools, Certain. Stanley Works. No. 147,692; Oct. 25.
- Tools for cutting the covers of sheet-metal cans and boxes. Openright Specialty Company. No. 149,466; Dec. 13.
- Tools for diamond cutters. Diamantbewerker Koperen Stelenfonds "Nieuwe Levenskracht." No. 147,982; Nov. 8.
- Tools for garage work, Certain. Larson Tool and Stamping Company. No. 147,788; Nov. 1.
- Tools for handling casks, &c. S. C. Allen. No. 145,024; July 26; v. 288; p. 811.
- Tools for metal-working machinery. J. Michelson. No. 148,479; Nov. 15.
- Tools, Hand-. Collins Company. No. 145,062; July 26; v. 288; p. 812.
- Tools, Hand and machine. Easterbrook Allcard & Co. No. 144,382; July 5; v. 288; p. 192.
- Tools, Mechanics'. Harold Tool & Forge Co. No. 141,957; May 3; v. 286; p. 185.
- Tools of the plier type, Combination. Utilitool Company. No. 142,812; May 17; v. 286; p. 635.
- Tool-paste. G. Bernard. No. 138,577; Jan. 4; v. 282; p. 185.
- Tooth-paste. Bristol-Myers Company. No. 143,560; June 7; v. 287; p. 182.
- Tooth-paste. L. B. Ellis, Jr. No. 146,217; Sept. 6; v. 290; p. 199.
- Tooth-paste. Kaffir Chemical Laboratories. No. 147,003; Sept. 27; v. 290; p. 805.
- Tooth-paste. E. G. Krupnick. No. 149,790; Dec. 20.
- Tooth-paste. C. Munter. No. 147,132; Oct. 4.
- Tooth-paste. Saenger Brothers. No. 144,049; June 21; v. 287; p. 582.
- Tooth-paste. S. M. Solomon. No. 149,241; Dec. 6.
- Tooth-paste. W. K. Tichenor. No. 141,251; Apr. 12; v. 285; p. 384.
- Tooth-paste. United Drug Company. No. 139,043; Jan. 18; v. 282; p. 556.
- Tooth-paste. R. I. Willmarth. No. 149,294; Dec. 6.
- Tooth-pastes. V. Vivaudou. No. 146,902; Sept. 20; v. 290; p. 638.
- Tooth-powder. R. J. Strassenburgh Company. No. 143,182; May 24; v. 286; p. 851.
- Toothbrushes. Geo. R. Gibson Company. Nos. 144,773-4; July 19; v. 288; p. 618.
- Toothbrushes. Western Bottle Manufacturing Company. No. 148,342; Nov. 8.
- Toothbrushes and nail-brushes. Imperial Brush Company. No. 148,085; Nov. 8.
- Toothpicks. International Mfg. Co. No. 146,579; Sept. 13; v. 290; p. 422.
- Toothpicks, Wooden. Escanaba Manufacturing Company. No. 144,212; June 28; v. 287; p. 774.
- Tops, Spinning-. Patented Specialties Corporation. No. 139,600; Feb. 8; v. 283; p. 353.
- Torch, Self-blowing. E. Folgman. No. 149,057; Dec. 6.
- Torches and gas-heaters, Blow-. Pumphless Blow Torch Company. No. 148,220; Nov. 8.
- Torches, Cutting and welding. E. P. Prator. No. 149,794; Dec. 20.
- Tourniquets, bandages, &c. American Standard Tourniquet Company. No. 149,302; Dec. 6.
- Tow-lines, Automobile. Smith-Monark Company. No. 147,689; Oct. 25.
- Towelings. Boot Mills. No. 141,496; Apr. 26; v. 285; p. 778.
- Towelings, towels, crashes, scarfing, tray-cloths. Laird Linen Corporation. Nos. 148,121-7; Nov. 8.
- Towels. Stamped Specialties Company. No. 146,934; Sept. 20; v. 290; p. 642.
- Towels, Cloth shaving-. Soak-Em Shaving Towel Company. No. 141,682; Apr. 26; v. 285; p. 783.
- Towels, Sanitary. Société Française des Tussus "Tetra." No. 140,437; Mar. 15; v. 284; p. 583.
- Towels, Textile. E. E. Alley. No. 148,973; Dec. 6.



*Alphabetical list of trade-marks—Continued.*

- Toy. W. R. Hollingshead Company. No. 146,252; Sept. 6; v. 290; p. 200.
- Toy airplanes. H. Rosenstein. No. 144,269; June 28; v. 287; p. 776.
- Toy auto dump-truck. Dean & Williams Co. No. 148,813; Nov. 29.
- Toy balloons. Eagle Rubber Co. No. 144,235; June 28; v. 287; p. 775.
- Toy balloons. Faultless Rubber Company. No. 144,214; June 28; v. 287; p. 774.
- Toy balloons and sponge-rubber balls. Miller Rubber Company, The. No. 145,894; Aug. 16; v. 289; p. 602.
- Toy carpet-sweepers. Bissell Carpet Sweeper Co. Nos. 148,999-149,000; Dec. 6.
- Toy carpet-sweepers. Midget Novelty Co. Nos. 145,418-9; Aug. 2; v. 289; p. 180.
- Toy cars. S. Klein. No. 146,273; Sept. 6; v. 290; p. 200.
- Toy cars for indoor or outdoor use. Hand-operated. Stoehrer & Pratt Dodge Corporation. No. 146,007; Aug. 23; v. 289; p. 789.
- Toy chemicals sets. American Drug and Chemical Co. No. 149,338; Dec. 13.
- Toy coaster. Novelty Products Company. No. 150,030; Dec. 27.
- Toy coaster-wagons. N. A. Archibald. No. 143,320; May 31; v. 286; p. 1048.
- Toy dogs, Stuffed. Davis and Voetsch. Nos. 149,029-30; Dec. 6.
- Toy figures, Flat wood. Joneseez Manufacturing Co. No. 149,684; Dec. 20.
- Toy miniature theater. M. Stoltz. No. 145,466; Aug. 2; v. 289; p. 182.
- Toy moving-picture machine. A. B. Cummings. No. 139,283; Feb. 1; v. 283; p. 168.
- Toy music-boxes. Lang & Pressprich. No. 149,137; Dec. 6.
- Toy paper picture-books. Samuel Gabriel Sons & Co. No. 144,118; June 21; v. 287; p. 587.
- Toy pop-guns and water-pistols. Daisy Manufacturing Company. No. 142,492; May 17; v. 286; p. 626.
- Toy sleds, fishing-tackle, and toy coaster-wagons. Strevell-Paterson Hardware Co. No. 148,605; Nov. 15.
- Toy vehicle. A. C. Klenke. No. 146,274; Sept. 6; v. 290; p. 200.
- Toy vehicles. A. Mecky Company. No. 150,003; Dec. 27.
- Toy vehicles. Novelty Products Company. No. 142,645; May 17; v. 286; p. 630.
- Toy velocipedes. Simplex Steel Stamping and Manufacturing Company. No. 143,834; June 7; v. 287; p. 194.
- Toy wagons. E. H. Badgley. Nos. 139,481-2; Feb. 8; v. 283; p. 349.
- Toy wooden horses mounted on wheels. Toytown Manufacturing Company. No. 149,525; Dec. 13.
- Toys. Bob-Betty Belongings. No. 146,068; Aug. 30; v. 289; p. 1013.
- Toys. N. D. Cass Company. No. 140,342; Mar. 15; v. 284; p. 580.
- Toys. Irokese Trading Corporation. No. 148,092; Nov. 8.
- Toys. Irokese Trading Corporation. Nos. 149,416-8; Dec. 13.
- Toys. Morton E. Converse and Son Co. No. 144,185; June 28; v. 287; p. 773.
- Toys. Sté An. pour l'Exploitation de Jouets S. A. J. No. 146,006; Aug. 23; v. 289; p. 789.
- Toys. Tur-Boy Co. No. 147,823; Nov. 1.
- Toys. Whit Manufacturing Company. No. 143,513; May 31; v. 286; p. 1054.
- Toys and playthings. Donahue Manufacturing Corporation. No. 147,994; Nov. 8.
- Toys, Certain. A. C. Gilbert Company. No. 145,675; Aug. 16; v. 289; p. 593.
- Toys, Certain. National Toy and Tinsel Mfg. Co. No. 149,182; Dec. 6.
- Toys, Certain paraffin. J. W. Glenn. No. 148,761; Nov. 22.
- Toys for use with automatic pianos. Central Talking Machine Shop. No. 146,193; Sept. 6; v. 290; p. 198.
- Toys in the nature of planchettes. H. E. Dill. No. 145,347; Aug. 2; v. 289; p. 178.
- Toys, Mechanical. J. A. Chappuis. No. 141,890; May 3; v. 286; p. 183.
- Toys, Mechanical. L. T. Savage. No. 148,770; Nov. 22.
- Toys, Rubber, composition, textile, celluloid, wooden, paper, and metal. Irokese Trading Corporation. No. 148,870; Nov. 29.
- Toys stamped from sheet metal, Certain. American Stamping Company. No. 148,780; Nov. 29.
- Tracing fabrics. Rexim Co. No. 142,108; May 3; v. 286; p. 190.
- Traction devices for use on automobile-wheels. Rowe Calk & Chain Company. No. 145,193; July 26; v. 288; p. 816.
- Tractors. Baines Engineering Company. No. 147,269; Oct. 11.
- Tractors. C. L. Best Gas Traction Company. No. 140,081; Mar. 8; v. 284; p. 363.
- Tractors. C. L. Best Tractor Co. No. 147,199; Oct. 4.
- Tractors. C. L. Best Tractor Co. No. 148,324; Nov. 8.
- Tractors. E. B. Cassatt Company. No. 149,355; Dec. 13.
- Tractors. Inland American Tractor Company. No. 146,260; Sept. 6; v. 290; p. 200.
- Tractors. Franklin Tractor Company. No. 141,552; Apr. 26; v. 285; p. 779.
- Tractors. Kardell Tractor & Truck Company. No. 140,852; Mar. 29; v. 284; p. 945.
- Tractors, &c. Minneapolis Steel & Machinery Company. No. 138,913; Jan. 11; v. 282; p. 381.
- Tractors. B. J. Patrick. No. 148,202; Nov. 8.
- Tractors. Reliance Trailer & Truck Co. No. 140,949; Mar. 29; v. 284; p. 948.
- Tractors. Shaw-Enochs Tractor Company. No. 142,759; May 17; v. 286; p. 633.
- Tractors. Société Lyonnaise d'Industrie Mecanique. No. 148,535; Nov. 15.
- Tractors. Southern Motor Manufacturing Association. No. 139,890; Feb. 22; v. 283; p. 755.
- Tractors. The Doughboy Tractors. No. 141,254; Apr. 12; v. 285; p. 385.
- Tractors and motor-propelled agricultural implements. Avery Company. No. 146,683; Sept. 20; v. 290; p. 631.
- Tractors and tilling implements and parts thereof. S. L. Allen & Co. No. 141,830; May 3; v. 286; p. 181.
- Tractors, Farm-. Beltrail Tractor Company. No. 142,858; May 17; v. 286; p. 637.
- Tractors. Gasolene industrial. Towmotor Company. No. 149,268; Dec. 6.
- Tractors. Internal-combustion engines, &c. Samson Tractor Company. No. 144,466; July 5; v. 288; p. 195.
- Tractors, traction-engines, &c. Toro Manufacturing Company. No. 144,640; July 12; v. 288; p. 426.
- Trade publication, Daily. Penton Publishing Company. No. 144,025; June 21; v. 287; p. 581.
- Traffic-signals for vehicles. V. Oliver, Inc. No. 150,035; Dec. 27.
- Trailers. Texas Wagon Works. No. 145,470; Aug. 2; v. 289; p. 182.
- Trailers, Reliance Trailer & Truck Co. No. 140,527; Mar. 15; v. 284; p. 585.
- Tramway-switches, Overhead. J. Duncan Company. No. 144,112; June 21; v. 287; p. 586.
- Translucent gelatinous sheets. Gelatoid Corporation. No. 145,098; July 26; v. 288; p. 813.
- Transmission-band linings, Dressing for. J. C. McLean. No. 148,152; Nov. 8.
- Transmission-gearings and parts thereof. Covert Gear Company. No. 147,973; Nov. 8.
- Transmission towers, &c. Metallic. Blaw-Knox Company. No. 140,258; Mar. 8; v. 284; p. 370.
- Transmission-towers, steel forms, &c. Metallic. Blaw-Knox Company. Nos. 142,241-2; May 10; v. 286; p. 403.
- Transmissions and brakes, Fabric linings for. Advance Automobile Accessories Corp. Nos. 138,929-30; Jan. 18; v. 282; p. 553.
- Transmissions, Certain. American Display Company. No. 146,159; Sept. 6; v. 290; p. 197.
- Transmissions, Change-speed. Cotta Transmission Company. No. 142,971; May 24; v. 286; p. 845.
- Transporting boxes, barrels, &c. Machines for. Economy Engineering Company. No. 141,116; Apr. 12; v. 285; p. 380.
- Traps, Roach-. A. G. Koch. No. 138,983; Jan. 18; v. 282; p. 554.
- Travelers, Ring-. National Ring Traveler Co. No. 142,063; May 3; v. 286; p. 188.
- Travelers, Ring-. National Ring Traveler Company. No. 143,110; May 24; v. 286; p. 849.
- Trays and pans, Metal. Vitreous Enameling Company. No. 142,903; May 17; v. 286; p. 642.
- Trays, Pin and pen. Rex Metal Products Company. No. 139,617; Feb. 8; v. 283; p. 353.
- Trays, Wooden. International Tray Co. No. 148,762; Nov. 22.
- Treads. Sure-On Tire Saver Co. No. 144,481; July 5; v. 288; p. 195.
- Treatment for piles and hemorrhoids. H. P. Clearwater. No. 148,379; Nov. 15.
- Trees. Haas & Kirkland. No. 148,062; Nov. 8.
- Trees, Fruit-. Jerseyville Nursery. No. 148,096; Nov. 8.
- Trees, Prune-. Oregon Nursery Company. No. 147,664; Oct. 25.
- Trimmer, Two-saw. Gordon Hollow Blast Grate Company. No. 147,215; Oct. 4.
- Trimming, belting, &c. Pocahontas Braid Corporation. No. 140,521; Mar. 15; v. 284; p. 585.
- Trimnings and garnitures. M. H. Amick. No. 138,563; Jan. 4; v. 282; p. 185.
- Tripoli flour. American Tripoli Company. Nos. 144,509-10; July 5; v. 288; p. 197.
- Tripoli flour. American Tripoli Company. No. 145,495; Aug. 2; v. 289; p. 183.
- Tripoli flour. American Tripoli Company. No. 146,422; Sept. 6; v. 290; p. 206.
- Tripoli flour. American Tripoli Company. No. 147,537; Oct. 25.
- Tripoli flour. American Tripoli Company. No. 147,749; Nov. 1.
- Tripoli flour, (ground Tripoli stone.) American Tripoli Company. Nos. 145,243-5; July 26; v. 288; p. 819.
- Tripoli flour used as a polishing material. American Tripoli Company. No. 146,923; Sept. 20; v. 290; p. 641.
- Trousers, Men's and young men's. B. Haas & Sons. No. 142,205; May 3; v. 286; p. 192.



*Alphabetical list of trade-marks—Continued.*

- Trousers, suits, and overcoats for men and boys. Samuel S. Simon Company. No. 143,524; May 31; v. 286; p. 1056.
- Truck-bodies. Metropolitan Body Company. No. 145,417; Aug. 2; v. 289; p. 180.
- Truck-bodies. Simplex Manufacturing Company. No. 143,472; May 31; v. 286; p. 1053.
- Truck bodies. Automobile. Atlas Body Works. No. 143,540; June 7; v. 287; p. 181.
- Trucks adapted to be attached to motor-cars. Graham Brothers. No. 149,579; Dec. 13.
- Trucks and automobiles. Motor-. Sandow Motor Truck Co. No. 145,805; Aug. 16; v. 289; p. 597.
- Trucks and ship-joint propeller-shafts complementary thereto. Frame extension for worm-driven. Hudson Motor Specialties Company. No. 145,695; Aug. 16; v. 289; p. 594.
- Trucks and car-bodies. Fairbanks Co. No. 149,669; Dec. 20.
- Trucks. Automobile-. Available Truck Company. No. 141,729; Apr. 26; v. 285; p. 785.
- Trucks. Automobile-. Available Truck Company. No. 143,785; June 7; v. 287; p. 189.
- Trucks. Floor-. Equipment Manufacturing Company. No. 148,398; Nov. 15.
- Trucks for coal-cutting machines. Goodman Manufacturing Company. No. 141,038; Mar. 29; v. 284; p. 952.
- Trucks. Gasolene-motor. Transport Truck Company. No. 141,302; Apr. 12; v. 285; p. 389.
- Trucks. Hand lifting-. Hesco Ltd. No. 146,766; Sept. 20; v. 290; p. 634.
- Trucks. Motor-. Atlas Truck Corporation. No. 148,350; Nov. 15.
- Trucks. Motor-. Dependable Truck and Tractor Company. No. 146,452; Sept. 6; v. 290; p. 209.
- Trucks. Motor-. Farmers Union State Exchange. No. 140,381; Mar. 15; v. 284; p. 581.
- Trucks. Motor-. Indiana Truck Corporation. No. 140,042; Mar. 1; v. 284; p. 177.
- Trucks. Motor-. International Motor Company. No. 138,761; Jan. 4; v. 282; p. 192.
- Trucks. Motor-. Menominee Motor Truck Co. No. 148,336; Nov. 8.
- Trucks. Motor-. Motor Truck Company. No. 140,062; Mar. 1; v. 284; p. 179.
- Trucks. Motor-. Sanford Motor Truck Company. No. 147,883; Nov. 1.
- Trucks. Motor-. Wichita Motors Company. No. 145,020; July 19; v. 288; p. 630.
- Trucks. Motor-driven. Minneapolis Steel & Machinery Company. No. 141,296; Apr. 12; v. 285; p. 388.
- Trucks. Platform-. West Bend Equipment Co. No. 146,910; Sept. 20; v. 290; p. 633.
- Trunks. Bloomfield Trunk Co. No. 142,454; May 17; v. 286; p. 624.
- Trunks. C. A. Taylor Trunk Works. No. 143,194; May 24; v. 286; p. 852.
- Trunks. Orenstein Trunk Company. No. 142,684; May 17; v. 286; p. 631.
- Trunks and traveling-bags. Virginia Trunk and Bag Co. No. 148,296; Nov. 8.
- Trunks, suitcases, and traveling-bags. Rogers & Madison Trunk Corporation. No. 147,733; Oct. 25.
- Trusses. L. A. Smith. No. 149,507; Dec. 13.
- Trusses. Hernial. W. H. Prewit. No. 142,714; May 17; v. 286; p. 632.
- Trusses, including pads. The Akron Trust Company. No. 148,565; Nov. 15.
- Tuberculosis vaccin. H. Rosenberg. No. 149,799; Dec. 20.
- Tubes, cord and fabric tires. Inner. Sprague Tire and Rubber Company. No. 141,049; Mar. 29; v. 284; p. 953.
- Tubes. Devices for discharging the contents of collapsible. T. H. Martin. No. 141,411; Apr. 19; v. 285; p. 568.
- Tubes. Inner. B. F. Goodrich Company. No. 146,927; Sept. 20; v. 290; p. 641.
- Tugs and barges. Foss Launch & Tug Company. No. 147,849; Nov. 1.
- Tulles, muslins, veillings, nettings, &c., all being piece goods. The "Dynamo" Tulle Importing Company. No. 139,290; Feb. 1; v. 283; p. 168.
- Turpentine. Duryea Manufacturing Co. No. 145,350; Aug. 2; v. 289; p. 178.
- Turpentine. Sales Department. Gillican-Chipley Company. No. 146,234; Sept. 6; v. 290; p. 199.
- Turpentine and turpentine substitutes. Anderson, Meyer & Company Ltd. No. 138,564; Jan. 4; v. 282; p. 185.
- Turpentine substitute. Atlantic Refining Company. No. 149,340; Dec. 13.
- Turpentine substitute. Texas Company. No. 150,138; Dec. 27.
- Turpentine, Spirits of. T. Sealy. No. 141,220; Apr. 12; v. 285; p. 384.
- Tuskeloid Company, Inc., New York, N. Y. Hand and wall mirrors and picture-frames. Nos. 149,527-8; Dec. 13.
- Twine. Cayuga Linen & Cotton Mills. Nos. 139,266-8; Feb. 1; v. 283; p. 168.
- Twine and cordage. M. J. Grady Company. No. 147,103; Oct. 4.
- Twine and fiber cord. American Net & Twine Co. No. 144,681; July 19; v. 288; p. 615.
- Twine. Binder-. Grain Growers Grain Company. No. 147,612; Oct. 25.
- Twine. Binder-. Plymouth Cordage Company. Nos. 147,147-8; Oct. 4.
- Twines. J. E. Barbour Company. No. 149,342; Dec. 13.
- Twines. Meyer & Rasmussen. No. 143,090; May 24; v. 286; p. 848.
- Twines. J. E. Barbour Company. No. 146,948; Sept. 27; v. 290; p. 803.
- Typewriter-keys, twirler-rings, &c. Peerless Key Co. No. 145,285; July 26; v. 288; p. 824.
- Typewriter-platens. Preserving preparation for surface-coating. F. W. Cameron. No. 140,338; Mar. 15; v. 284; p. 580.
- Typewriter-platens. Preparation for the reproduction and preservation of. F. S. Wilson. No. 150,180; Dec. 27.
- Typewriter-ribbons. Columbia Ribbon & Carbon Mfg. Co. No. 145,884; Aug. 16; v. 289; p. 601.
- Typewriter-ribbons and carbon-paper. H. W. Du Bois & Co. No. 145,078; July 26; v. 288; p. 812.
- Typewriter-ribbons. R. G. Landis. No. 142,377; May 10; v. 286; p. 409.
- Typewriter-ribbons and carbon-paper. Chas. A. Foyer & Company. No. 146,229; Sept. 6; v. 290; p. 199.
- Typewriter-ribbons and carbon-paper. Columbia Ribbon & Mfg. Co. No. 149,570; Dec. 13.
- Typewriter-ribbons and carbon-paper. G. F. Yancey. Nos. 142,184-5; May 3; v. 286; p. 192.
- Typewriter-ribbons and carbon-paper. G. F. Yancey. No. 144,503; July 5; v. 288; p. 196.
- Typewriters. Federal Adding Machine Corporation. No. 145,265; July 26; v. 288; p. 822.
- Typewriters. Sears, Roebuck and Co. No. 145,581; Aug. 9; v. 289; p. 408.
- Typewriters. H. F. Simon. No. 145,290; July 26; v. 288; p. 825.
- Typewriters. Photographic. American Desatype Co. No. 145,308; Aug. 2; v. 289; p. 177.
- Typewriting-machines. Corona Typewriter Co. No. 144,109; June 21; v. 287; p. 586.
- Typewriting-machines, &c. Elliott-Fisher Company. No. 145,088; July 26; v. 288; p. 813.
- Typewriting-machines. Noiseless Typewriter Company. No. 138,914; Jan. 11; v. 282; p. 381.
- Typewriting-machines. Standard Shortwriter Sales Co. No. 144,147; June 21; v. 287; p. 590.
- Typewriting-machines and parts. Underwood Typewriter Company. No. 145,527; Aug. 2; v. 289; p. 187.
- Typewriting-machines and parts. Underwood Typewriter Co. No. 148,550; Nov. 15.
- Typewriting-machines and parts thereof. Royal Typewriter Company. No. 142,117; May 3; v. 286; p. 190.
- Typograph mechanism, line-casting and other machines and appliances, and parts thereof. Ludlow Typograph Company. No. 149,590; Dec. 13.
- Umbrellas. Acme Merchandise Corporation. No. 142,402; May 17; v. 286; p. 623.
- Umbrellas and parasols. Rose Brothers Co. No. 141,048; Mar. 29; v. 284; p. 953.
- Umbrellas, parasols, and canes. W. H. Beehler. No. 143,552; June 7; v. 287; p. 181.
- Undergarments in cotton, silk, and knitted fabrics. Western Dry Goods Co. No. 144,296; June 28; v. 287; p. 777.
- Undershirts and union-suits. Robert Reis & Co. No. 142,323; May 10; v. 286; p. 405.
- Undershirts, drawers, chemises, &c. Fox Bros. Mfg. Co. No. 143,802; June 7; v. 287; p. 191.
- Undershirts, union-suits, drawers, &c. Oppenheim, Oberndorf and Company. Nos. 142,078-9; May 3; v. 286; p. 180.
- Underskirts and bloomers. Ladies'. The Auburn Garment Company. No. 140,548; Mar. 22; v. 284; p. 743.
- Underskirts and petticoats. Women's. American Home Economics Association. No. 143,885; June 21; v. 287; p. 577.
- Underwaists. Schrelber-Hoban Company. No. 142,750; May 17; v. 286; p. 633.
- Underwaists. Children's. S. J. Fishel. No. 143,335; May 31; v. 286; p. 1049.
- Underwaists. Infants'. Comfort Garment Company. No. 140,781; Mar. 29; v. 284; p. 942.
- Underwaists, union-suits, and sleeping-garments. E-Z Waist Company. No. 147,308; Oct. 11.
- Underwear. American Dry Goods Company of New York. No. 146,670; Sept. 20; v. 290; p. 631.
- Underwear. J. F. Byrne. No. 142,861; May 17; v. 286; p. 638.
- Underwear. Children's. Athletic Underwear Company. No. 143,892; June 21; v. 287; p. 577.
- Underwear. Cooper Underwear Company. No. 139,447; Feb. 1; v. 283; p. 174.
- Underwear. J. A. Firsching. No. 146,461; Sept. 6; v. 290; p. 210.
- Underwear. Futurist Company. No. 139,983; Mar. 1; v. 284; p. 173.
- Underwear. William H. Shelp & Company. No. 138,703; Jan. 4; v. 282; p. 189.
- Underwear. A. Stieglitz & Co. No. 140,981; Mar. 29; v. 284; p. 949.
- Underwear. Tailored Silk Undergarment Co. No. 149,256; Dec. 6.
- Underwear and hosiery. Black Cat Textile Company (now by change of name The Allen A Company). No. 140,753; Mar. 29; v. 284; p. 942.



*Alphabetical list of trade-marks—Continued.*

- Underwear and hosiery. Heckman Hunt Corporation. No. 140,604; Mar. 22; v. 284; p. 745.
- Underwear and hosiery. Northwestern Knitting Company. No. 139,360; Feb. 1; v. 283; p. 170.
- Underwear and hosiery. I. M. Mirsky. No. 149,169; Dec. 6.
- Underwear and pajamas, Men's. Universal Garment Company. No. 138,728; Jan. 4; v. 282; p. 190.
- Underwear for adults and children consisting of two-piece garments, Knitted. W. E. Tillotson Manufacturing Company. No. 140,686; Mar. 22; v. 284; p. 747.
- Underwear for male wear, Woven cotton-fabric. Regatta Manufacturing Co. No. 145,577; Aug. 9; v. 289; p. 408.
- Underwear for men, Athletic. C. E. Shedaker & Sons. No. 145,812; Aug. 16; v. 289; p. 597.
- Underwear for men, women, and children. Topkis Bros. Co. No. 142,795; May 17; v. 286; p. 634.
- Underwear for women. L. Freireich. No. 139,795; Feb. 22; v. 283; p. 752.
- Underwear for women and children. I. Schweitzer. No. 145,522; Aug. 2; v. 289; p. 186.
- Underwear-garments, Children's. B. Weiss. No. 143,770; June 7; v. 287; p. 188.
- Underwear, Hand-embroidered. French American Import Co. No. 145,556; Aug. 9; v. 289; p. 407.
- Underwear, hosiery, &c. Robert Reis & Co. No. 150,073; Dec. 27.
- Underwear, Knit. M. E. Smith & Co. No. 139,036; Jan. 18; v. 282; p. 556.
- Underwear, Ladies'. Barrow Mfg. Co. No. 140,550; Mar. 22; v. 284; p. 743.
- Underwear, Men's. Universal Garment Company. No. 141,454; Apr. 19; v. 285; p. 569.
- Underwear, men's athletic. Oppenheim, Oberndorf & Co. No. 142,683; May 17; v. 286; p. 631.
- Underwear, negligees, dresses, &c., Ladies'. E. S. Forzly. No. 138,759; Jan. 4; v. 282; p. 191.
- Underwear of knitted material, Infants'. Boston Knitting Mills. No. 143,914; June 21; v. 287; p. 578.
- Underwear of knitted, netted, and textile fabrics. J. A. Pirsching. No. 147,310; Oct. 11.
- Underwear of textile fabric, Ladies' and misses'. D. Rosenberg & Co. No. 143,734; June 7; v. 287; p. 187.
- Underwear, Women's. J. Baach Co. No. 143,281; May 31; v. 286; p. 1047.
- Underwear, Women's muslin and silk. Aaron Newmark, Inc. No. 141,065; Apr. 12; v. 285; p. 379.
- Underwear, Wool. Medlicott Company. No. 149,160; Dec. 6.
- Underwear, Woven and knitted. New England Knitting Co. No. 148,181; Nov. 8.
- Union-suits. Oppenheim, Oberndorf & Co. No. 149,324; Dec. 6.
- Union-suits, combination-suits, undershirts, &c. Superior Underwear Company. No. 149,804; Dec. 20.
- Union-suits, undershirts, and underdrawers, Men's and boys'. Hall, Hartwell & Co. No. 145,682; Aug. 16; v. 289; p. 593.
- Union-suits, undershirts, and underdrawers, Men's and boys'. Hall, Hartwell & Co. No. 148,065; Nov. 8.
- Upholstery and drapery trimmings. E. Maag. No. 148,895; Nov. 29.
- Upright, grand, player, and reproducing pianos. The Packard Piano Company. No. 148,503; Nov. 15.
- Vaccins, Curative. Etablissements Poulenc Frères. No. 144,315; June 28; v. 287; p. 780.
- Vacuum-cleaners, Electric. Richmond Radiator Company. No. 144,459; July 5; v. 288; p. 195.
- Valve for internal-combustion engines. Self-Seating Valve Company. No. 142,756; May 17; v. 286; p. 633.
- Valve-grinding compound. Hall-Thompson Company. No. 140,820; Mar. 29; v. 284; p. 944.
- Valve-grinding compound. C. Shattock. No. 149,734; Dec. 20.
- Valves. American Valve Co. No. 146,165; Sept. 6; v. 290; p. 197.
- Valves. Everlasting Valve Company. No. 145,264; July 26; v. 288; p. 822.
- Valves, Thermostatically-operated. Estate Stove Company. No. 147,598; Oct. 25.
- Valves and strainers, Starting and check. William Sellers & Company. No. 138,860; Jan. 11; v. 282; p. 377.
- Valves and cocks and metal pipe-fittings. D. T. Williams Valve Company. No. 142,907; May 17; v. 286; p. 643.
- Valves and liquid-strainers, Check and tire. Anthony Company. No. 149,563; Dec. 13.
- Valves, belting, hose, &c. B. F. Goodrich Company. No. 144,401; July 5; v. 288; p. 193.
- Valves, cocks, pipe-fittings, nozzles, &c., Certain. Lunkenheimer Company. No. 148,894; Nov. 29.
- Valves for general use. Jenkins Bros. No. 140,277; Mar. 8; v. 284; p. 371.
- Valves for internal-combustion engines. J. A. Drake and Sons. No. 143,318; May 31; v. 286; p. 1048.
- Valves for controlling steam and water. Warren Webster & Company. No. 146,400; Sept. 6; v. 290; p. 204.
- Valves, Gas and air. American Radiator Company. No. 147,534; Oct. 25.
- Valves, Metal. T. McAvity and Sons. No. 145,135; July 26; v. 288; p. 814.
- Valves, pipe-fittings, regulators, &c. Crane Company. No. 140,034; Mar. 1; v. 284; p. 176.
- Valves, Plug-. Merrill Company. No. 141,609; Apr. 26; v. 285; p. 781.
- Valves, Pump-. B. F. Goodrich Company. No. 144,402; July 5; v. 288; p. 193.
- Valves, Steam-blower. Crane Company. No. 141,740; Apr. 26; v. 285; p. 786.
- Vanilla concentrate, Compound-. M. De Groote. No. 145,071; July 26; v. 288; p. 812.
- Vanilla extract. R. Frank. No. 146,742; Sept. 20; v. 290; p. 633.
- Vanilla extract for food-flavoring. K. Reinhart. No. 149,721; Dec. 20.
- Vanilla extract, Imitation-. Horine & Bowey Company. No. 149,406; Dec. 13.
- Vaporizers. M. Wiegand. No. 139,665; Feb. 8; v. 283; p. 355.
- Vaporizing apparatus. Charles Alfred Waldeck Company Inc., The. No. 149,539; Dec. 13.
- Vaporizing a disinfectant liquid, Apparatus for. Swine Breeders' Service. No. 139,408; Feb. 1; v. 283; p. 172.
- Varnish. Continental Varnish Company. No. 142,479; May 17; v. 286; p. 625.
- Varnish. Cook Paint & Varnish Company. Nos. 147,574-6; Oct. 25.
- Varnish. Empire Varnish Company. No. 149,376; Dec. 13.
- Varnish. McDougall-Butler Co. Nos. 149,438-9; Dec. 13.
- Varnish. Newark Varnish Works. No. 141,789; Apr. 26; v. 285; p. 791.
- Varnish and paint remover. M. Cantan. No. 142,463; May 17; v. 286; p. 625.
- Varnish, &c., Auto-. E. K. Lincoln. No. 149,987; Dec. 27.
- Varnish, Floor-. Remien & Kuhnert Co. No. 146,851; Sept. 20; v. 290; p. 636.
- Varnishes. Egan and Hausman Company. No. 149,666; Dec. 20.
- Varnishes. S. V. De Foreest. No. 149,658; Dec. 20.
- Varnishes. L. Nekritz. No. 147,138; Oct. 4.
- Varnishes. Wadsworth, Howland & Co. No. 145,853; Aug. 16; v. 289; p. 599.
- Varnishes and lacquers. Deutsche Conservier ungsgesellschaft mit beschränkter Haftung. No. 142,255; May 10; v. 286; p. 404.
- Varnishes and paint enamels. Continental Varnish Company. No. 142,478; May 17; v. 286; p. 625.
- Varnishes, fillers, stains, varnish coatings. Unkefer Varnish Company. No. 146,615; Sept. 13; v. 290; p. 423.
- Varnishes, japans, oil-paints, paint-oils. T. C. Esser Company. No. 143,800; June 7; v. 287; p. 190.
- Varnishes, stains, lacquers, &c. H. J. Kuhn. No. 149,978; Dec. 27.
- Varnishes, varnish coating paint enamels, paste, &c. Unkefer Varnish Company. No. 145,921; Aug. 16; v. 289; p. 605.
- Vegetable compound for shortening, &c. Globe cotton Oil Mills. No. 144,776; July 19; v. 288; p. 618.
- Vegetable extract. Mohr Food Products, Inc. No. 147,644; Oct. 25.
- Vegetable fiber. California Fibre Company. No. 149,861; Dec. 27.
- Vegetables. Southern Produce Company. No. 148,537; Nov. 15.
- Vehicle-bodies. The Holbrook Co. No. 145,891; Aug. 16; v. 289; p. 602.
- Vehicle-bodies. The Baker R & L Company. No. 138,568; Jan. 4; v. 282; p. 185.
- Vehicle-bodies and parts thereof. Field Body Corporation. No. 143,000; May 24; v. 286; p. 846.
- Vehicle bodies or frames. Baker R & L Company. No. 144,514; July 5; v. 288; p. 198.
- Vehicle of the scooter type. Kokomo Specialties Mfg. Co. No. 145,396; Aug. 2; v. 289; p. 180.
- Vehicle parts. Edward G. Budd Manufacturing Company. No. 140,260; Mar. 8; v. 284; p. 370.
- Vehicle parts. The Willys-Overland Company. No. 138,743; Jan. 4; v. 282; p. 190.
- Vehicle parts and accessories. Certain. Bayne Manufacturing Company. No. 149,636; Dec. 20.
- Vehicle-wheels. Packard Engineering Company. No. 143,705; June 7; v. 287; p. 186.
- Vehicle-wheels. Combination lifter and stand for. L. C. Beadle. No. 149,837; Dec. 27.
- Vehicles. G. C. Adams. No. 146,061; Aug. 30; v. 289; p. 1013.
- Vehicles and parts thereof, Motor-. Dodge Brothers. No. 144,522; July 5; v. 288; p. 198.
- Vehicles, automobiles, motor-trucks, Motor-. Oshkosh Motor Truck Mfg. Co. No. 140,189; Mar. 8; v. 284; p. 366.
- Vehicles, Commercial motor-. Wichita Motors Company. No. 140,306; Mar. 8; v. 284; p. 374.
- Vehicles, Electric starting, lighting, and ignition apparatus for motor-. North East Electric Company. No. 141,189; Apr. 12; v. 285; p. 382.
- Vehicles for children, Foot-propelled land-. Arden-Bennett Corporation. No. 142,434; May 17; v. 286; p. 624.
- Vehicles, Juvenile coasting-. Westfield Manufacturing Company. No. 142,832; May 17; v. 286; p. 636.
- Vehicles, Light motor road-. Delmore Manufacturing Co. No. 138,803; Jan. 11; v. 282; p. 376.



- Vehicles, Mechanical traffic-signals for. G. F. Chism. No. 148,642; Nov. 22.
- Vehicles, Motor-. Columbia Motors Company. No. 145,637; Aug. 16; v. 289; p. 592.
- Vehicles, Motor-. Oneida Motor Truck Co. No. 142,682; May 17; v. 286; p. 631.
- Vehicles, Motor-driven. General Motors Corporation. No. 141,126; Apr. 12; v. 285; p. 381.
- Vehicles, Motor-driven. Lorraine Car Co. No. 145,511; Aug. 2; v. 289; p. 185.
- Vehicles, Name and license plates for motor-. Autohome Plate Company. No. 149,827; Dec. 27.
- Vehicles—namely trucks, Self-propelled. Locomobile Company of America. No. 149,146; Dec. 6.
- Veilings, nettings, and chiffons in the piece. Thurm, Browne & Cohen. No. 140,229; Mar. 8; v. 284; p. 363.
- Veilings, nettings, chiffons, &c. Gottschalk Steinberg & Co. No. 140,442; Mar. 15; v. 284; p. 583.
- Vehicles other than bicycles, Wheeled. Samson Tractor Company. No. 143,160; May 24; v. 286; p. 851.
- Vehicles, parts and accessories, Certain. Marburg Brothers. No. 149,697; Dec. 20.
- Vehicles, Pedal-driven, three-wheel juvenile. Westfield Manufacturing Company. Nos. 138,740-1; Jan. 4; v. 282; p. 190.
- Vehicles, Self-propelled. American Motor Truck Company. No. 141,838; May 3; v. 286; p. 181.
- Vehicles, Self-propelled. The American Motor Truck Company. No. 138,934; Jan. 18; v. 282; p. 553.
- Vehicles, Springs for. Sheldon Axle & Spring Co. No. 149,735; Dec. 20.
- Vehicles, Traffic-signals for. Turn-O-Stop Manufacturing Corporation. No. 144,074; June 21; v. 287; p. 583.
- Vehicles, Traffic-signals for motor-. J. D. Coward. No. 149,896; Dec. 27.
- Veil and veilings and nettings in the piece. H. Jacob & Sons. No. 143,983; June 21; v. 287; p. 580.
- Veils. Herbert B. Lederer Co. No. 139,341; Feb. 1; v. 283; p. 170.
- Veils, veilings, and nettings in the piece. Gottschalk Steinberg & Co. No. 149,391; Dec. 13.
- Veils, veilings, and nettings in the piece. Van Raalte Company. No. 147,182; Oct. 4.
- Veilings, nettings, &c., in the piece. Marks, Ring & Dubin. No. 142,300; May 10; v. 286; p. 405.
- Velocipedes. Atkinson Mill & Manufacturing Company. No. 141,850; May 3; v. 286; p. 182.
- Velocipedes. Platt-Rubin Company. No. 146,333; Sept. 6; v. 290; p. 202.
- Velocipedes, tricycles, and bicycles for children's use. Steinfeld Bros. No. 140,722; Mar. 22; v. 284; p. 751.
- Velvet and velveteen cloth piece goods. W. A. Hedeman. No. 141,959; May 3; v. 286; p. 185.
- Velvet and velveteen cloths in the piece. W. A. Hedeman. No. 142,562; May 17; v. 286; p. 628.
- Velvets and plushes in the piece. Salt's Textile Manufacturing Company. No. 139,877; Feb. 22; v. 283; p. 755.
- Velvets in the piece. Bennett and Aspden Company. No. 145,251; July 26; v. 288; p. 820.
- Velvets in the piece. Bennett and Aspden Company. No. 147,926; Nov. 8.
- Velvets in the piece. Bennett and Aspden Company. Nos. 148,356-7; Nov. 15.
- Vending-machines. Coingum Manufacturing Company. No. 149,015; Dec. 6.
- Vending-machines. Coingum Manufacturing Company. No. 149,882; Dec. 27.
- Vent-patching material. Patterson, Gottfried and Hunter Inc. No. 141,196; Apr. 12; v. 285; p. 383.
- Ventilators and chimney-caps. Day Company. No. 146,723; Sept. 20; v. 290; p. 633.
- Ventilators and chimney-caps. Standard Ventilator Company. No. 145,015; July 19; v. 288; p. 629.
- Ventilators for windows, &c. Caskey-Dupree Mfg. Co. No. 139,264; Feb. 1; v. 283; p. 168.
- Ventilators, Roof-. Milwaukee Corrugating Company. No. 139,350; Feb. 1; v. 283; p. 170.
- Vermifuge. Wright's Indian Vegetable Pill Company. Nos. 146,914-5; Sept. 20; v. 290; p. 638.
- Vermin-exterminator. Bu Bono Inc. No. 149,006; Dec. 6.
- Vermin-exterminator. H. L. Witt. No. 147,189; Oct. 4.
- Vermin-exterminator, Adhesive. L. J. Lippmann. No. 147,632; Oct. 25.
- Vessels, Shipping. Meurer Steel Barrel Company. No. 139,578; Feb. 8; v. 283; p. 352.
- Veterinarian and poultry preparation and healing-powder. G. A. Cuning. No. 146,206; Sept. 6; v. 290; p. 198.
- Veterinary medicine. Bernard & Begin. No. 146,432; Sept. 6; v. 290; p. 207.
- Veterinary preparations. Carolina Remedies Company. No. 149,648; Dec. 20.
- Vinegar. Hood River Apple Vinegar Co. No. 148,583; Nov. 15.
- Vinegar. S. M. Starkey. No. 143,181; May 24; v. 286; p. 851.
- Vinegar, canned fruits, and vegetables. Dixie Fruit Products Corporation. No. 138,961; Jan. 18; v. 282; p. 554.
- Vinegar, Cider. Ozark Cider & Vinegar Company. No. 142,889; May 17; v. 286; p. 640.
- Vinegar, sauer-kraut, jams, &c. Peerless Food Manufacturing Co. No. 146,133; Aug. 30; v. 289; p. 1015.
- Violins. Green Mountain Violin Corporation. No. 146,239; Sept. 6; v. 290; p. 199.
- Vises, chucks, &c., for metal-working machine tools. J. H. Jerrim. No. 145,390; Aug. 2; v. 289; p. 179.
- Vitamin compound. William S. Merrell Company. No. 139,837; Feb. 22; v. 283; p. 753.
- Vitamin products. Parke, Davis & Company. No. 146,833; Sept. 20; v. 290; p. 636.
- Vitamine preparations, nerve-tonics, &c. Society of Chemical Industry in Basle. Nos. 150,114-5; Dec. 27.
- Voile in the piece, Cotton. Cohn Hall Marx Co. No. 145,633; Aug. 16; v. 289; p. 592.
- Voile in the piece, Cotton. Jacob S. Bernheimer & Bro. No. 149,841; Dec. 27.
- Voile piece goods. Turner & Walls. No. 145,585; Aug. 9; v. 289; p. 408.
- Voiles in the piece. M. Schwarz. No. 139,470; Feb. 1; v. 283; p. 177.
- Volumes of poetry, Printed. D. C. Breninger. No. 140,571; Mar. 22; v. 284; p. 744.
- Vulcanization of rubber, Compounds for use in. Michigan Chemical Company. No. 146,119; Aug. 30; v. 289; p. 1015.
- Vulcanizing plants, Stationary. Scheffer & Rossum Co. No. 149,497; Dec. 13.
- Vulcanized-fiber toothed wheels and pickers for looms. Aktiebolaget Tidan. No. 145,233; July 26; v. 288; p. 817.
- Wafers, Sugar. Lakeside Biscuit Co. No. 143,662; June 7; v. 287; p. 185.
- Wagon-hounds. Dultmeier Manufacturing Company. No. 145,654; Aug. 16; v. 289; p. 593.
- Wagons and coasters for children, Four-wheeled play-. H. C. White Company. No. 148,962; Nov. 29.
- Wagons and skidders. Lindsey Wagon Co. No. 146,531; Sept. 6; v. 290; p. 218.
- Wagons, buggies, surreys. Nixon Hardware Co. No. 140,501; Mar. 15; v. 284; p. 585.
- Wagons, Farm, log, and one-horse. Mogul Wagon Company. No. 145,420; Aug. 2; v. 289; p. 180.
- Wagons, Hand-drawn express-. M. E. Lynn. No. 149,995; Dec. 27.
- Wagons. Thornhill Wagon Co. No. 142,155; May 3; v. 286; p. 191.
- Wagons, trucks, buggies, runabouts, surreys. Huntingburg Wagon Works. No. 139,080; Jan. 18; v. 282; p. 559.
- Waist, union-suits, Children's. E-Z Waist Company. No. 143,766; June 7; v. 287; p. 188.
- Waists. Goldberg & Rosenblatt. No. 146,469; Sept. 6; v. 290; p. 211.
- Waists. Waistcraft Corporation. No. 149,281; Dec. 6.
- Waists and blouses. Gross & Weiss, Inc. No. 145,559; Aug. 9; v. 289; p. 407.
- Waists and dresses. E. M. Cohan. No. 141,338; Apr. 19; v. 285; p. 566.
- Waists and dresses. E. M. Cohan. No. 141,351; Apr. 19; v. 285; p. 566.
- Waists and garters, Combined. A. Stein & Company. No. 139,403; Feb. 1; v. 283; p. 172.
- Waists and vests. Nazareth Waist Co. No. 141,186; Apr. 12; v. 285; p. 382.
- Waists, dresses, &c. Elgin Waist Company. No. 146,457; Sept. 6; v. 290; p. 210.
- Waists, dresses, and silk underwear, Women's. Wechsler Barber Silk Co. No. 146,909; Sept. 20; v. 290; p. 638.
- Waists, Ladies'. Ripon Shirtwaist Company. No. 148,237; Nov. 8.
- Waists, Women's and girls'. H. Schwarz. No. 144,533; July 5; v. 288; p. 200.
- Wall and sheathing boards, building-paper. Niagara Wall Board Company. No. 141,297; Apr. 12; v. 285; p. 388.
- Wall-board. Western Wallboard Co. No. 149,624; Dec. 13.
- Wall-board and building-paper. Beaver Company. No. 142,931; May 24; v. 286; p. 843.
- Wall-board and building-paper. Emerson Carey Fibre Products Company. No. 145,090; July 26; v. 288; p. 813.
- Wall-board and roofing. C. A. Nash & Son. No. 142,060; May 3; v. 286; p. 188.
- Wall-board and roofing in rolls and ready cut for application. C. A. Nash & Son. No. 143,410; May 31; v. 286; p. 1051.
- Wall-finish, Interior. Alinall Mfg. Co. No. 149,815; Dec. 27.
- Wall glazing and coloring, Interior. Alinall Mfg. Co. No. 149,814; Dec. 27.
- Wardrobes. M. L. Himmel & Son. No. 146,035; Aug. 23; v. 289; p. 792.
- Wardrobes. M. L. Himmel & Son. No. 146,037; Aug. 23; v. 289; p. 792.
- Warming-closets, steam-tables, &c. Morandi-Proctor Company. No. 150,015; Dec. 27.
- Washboilers. Nitchhauser & Levy. Nos. 140,288-91; Mar. 8; v. 284; p. 373.
- Washers and electric clothes-irons, Electric clothes-. Good Housekeeping Electric Shoppe. No. 142,545; May 17; v. 286; p. 627.
- Washers and milk-bottle fillers, cappers, and pasteurizers. Rice & Adams Corporation. No. 148,233; Nov. 8.
- Washers, friction-rings, and packings, Non-metallic. F. Lauter. No. 140,869; Mar. 29; v. 284; p. 945.
- Washers, Metal and lock. Smith & Hemenway Company. No. 144,940; July 19; v. 288; p. 623.



*Alphabetical list of trade-marks—Continued.*

- Washing and cleaning powder. E. D. Davis. No. 139,711; Feb. 15; v. 283; p. 541.
- Washing and ironing machines, Electric. Western Electric Company. No. 139,428; Feb. 1; v. 283; p. 173.
- Washing and ironing machines, Laundry. Easiest Way Manufacturing Company. No. 142,199; May 3; v. 286; p. 192.
- Washing compound. W. A. Kittredge Company. No. 149,130; Dec. 6.
- Washing compounds. H. H. Scofield. No. 139,625; Feb. 8; v. 283; p. 353.
- Washing compounds. Stout Crate Co. No. 141,443; Apr. 19; v. 285; p. 569.
- Washing compound. E. L. Willson. No. 146,059; Aug. 23; v. 289; p. 795.
- Washing compound, Laundry-. A. E. Petersen. No. 145,436; Aug. 2; v. 289; p. 181.
- Washing compounds. Keene Washing Products Company. No. 145,126; July 26; v. 288; p. 814.
- Washing compounds. Multi Products Company. No. 144,208; June 28; v. 287; p. 774.
- Washing fluid. F. Cormond. No. 140,702; Mar. 22; v. 284; p. 749.
- Washing fluid, Non-saponaceous. Miracle Manufacturing Company. No. 144,203; June 28; v. 287; p. 774.
- Washing fluids. F. Benedetti & A. Vannozzi & Co. No. 147,925; Nov. 8.
- Washing fluids. H. J. Miller. No. 147,797; Nov. 1.
- Washing machines, and wringers, Laundry-. Central Manufacturing Company. No. 146,707; Sept. 20; v. 290; p. 632.
- Washing machines and wringers, Laundry-. Clarinda Lawn Mower Company. No. 140,263; Mar. 8; v. 284; p. 370.
- Washing machines, Clothes-. Surf Manufacturing Co. No. 146,889; Sept. 20; v. 290; p. 638.
- Washing machines, ironing-boards, &c., Laundry-. F. H. Taylor Company. No. 142,789; May 17; v. 286; p. 634.
- Washing machine, Laundry-. W. Remmert. No. 142,726; May 17; v. 286; p. 632.
- Washing machine, Laundry-. Twin Washer Manufacturing Company. No. 142,800; May 17; v. 286; p. 635.
- Washing machines, Laundry-. American Electrical Supply Co. No. 139,110; Jan. 25; v. 282; p. 733.
- Washing machines, Laundry-. Folsom-Miller Company. No. 142,532; May 17; v. 286; p. 627.
- Washing machines, wringers, and parts thereof, Laundry-. Win-Her Washer Company. No. 142,845; May 17; v. 286; p. 636.
- Washing-powder. J. E. Brown. No. 149,353; Dec. 13.
- Washing-powder. J. H. McMahon. No. 144,196; June 28; v. 287; p. 774.
- Washing-powder. The Procter and Gamble Company. No. 144,895; July 19; v. 288; p. 621.
- Washing-powder, laundry soap, and soap chips. Swift and Company. No. 149,514; Dec. 13.
- Washing-powders. Mato Mfg. Co. No. 138,836; Jan. 11; v. 282; p. 377.
- Washing-tablets. Easy Wash Laundry Tablet Co. No. 142,513; May 17; v. 286; p. 626.
- Washing-tablets. W. R. Hollingshead Company. No. 148,077; Nov. 8.
- Washing-tablets. M. Iverson. No. 144,812; July 19; v. 288; p. 619.
- Washing-tablets for fabrics. Little Servant Mfg. Co. No. 149,144; Dec. 6.
- Waste-cotton strips, Egyptian-. New England Waste Company. No. 144,881; July 19; v. 288; p. 621.
- Watch mainsprings and glasses. H. Paulson. No. 145,173; July 26; v. 288; p. 815.
- Watch-crystals. Boyd-MacDonald Company. No. 147,755; Nov. 1.
- Watch-crystals. Konishi Kotakudo & Co. No. 141,588; Apr. 26; v. 285; p. 780.
- Watch-movements. Illinois Watch Case Company. No. 144,804; July 19; v. 288; p. 619.
- Watch-pendants. Star Watch Case Co. No. 140,721; Mar. 22; v. 284; p. 751.
- Watch-springs. Sandvikens Jernverks Aktiebolag. No. 142,326; May 10; v. 286; p. 406.
- Watches. Adolphe Schwob, Inc. No. 139,098; Jan. 18; v. 282; p. 560.
- Watches. M. Levy. No. 141,771; Apr. 26; v. 285; p. 789.
- Watches. Master Jewelers, Inc. No. 146,294; Sept. 6; v. 290; p. 201.
- Watches. Rueff Frères. No. 141,123; Apr. 12; v. 285; p. 380.
- Watches, &c. E. Gisiger. No. 149,068; Dec. 6.
- Watches. Union horlogère. No. 144,644; July 12; v. 288; p. 426.
- Watches and clocks. Geneva Watch Company. No. 143,032; May 24; v. 286; p. 846.
- Watches and watch-movements. R. A. Gsell. No. 144,409; July 5; v. 288; p. 193.
- Watches and watch-movements. Hampden Watch Company. No. 144,120; June 21; v. 287; p. 587.
- Watches and watch-movements. Jules Racine & Co. No. 144,627; July 12; v. 288; p. 425.
- Watches and watch-movements. A. Schwob. No. 139,881; Feb. 22; v. 283; p. 755.
- Watches and watch parts. Star Watch Case Co. Nos. 140,718-20; Mar. 22; v. 284; p. 751.
- Watches and watch parts. Star Watch Case Co. No. 144,634; July 12; v. 288; p. 425.
- Watches and their parts. Fabrique d'Horlogerie Electa Gallet & Co. S. A. Nos. 147,599-600; Oct. 25.
- Watches, clocks, alarm-clocks. Galdo Dulzaides y Compañia. No. 149,310; Dec. 6.
- Watches, clocks, and parts thereof. Meyer & Stüdel. Nos. 144,439-40; July 5; v. 288; p. 194.
- Watches, clocks, chronometers, &c. Perla Watch Co. Straub & Co. No. 143,428; May 31; v. 286; p. 1051.
- Watches, Ladies' and men's. Burlington Watch Co. No. 149,305; Dec. 6.
- Watches, watch cases and movements. B. Gutter & Sons. No. 146,756; Sept. 20; v. 290; p. 634.
- Watches, watchcases, watch dials and movements. Ed Kummer Limited. No. 143,382; May 31; v. 286; p. 1050.
- Watches, watchcases, watch-movements. B. Gutter & Sons. No. 144,791; July 19; v. 288; p. 618.
- Watches, watchcases, watch-movements. B. Gutter & Sons. No. 147,614; Oct. 25.
- Watches, watchcases, watch dials and movements. Ed Kummer Limited. No. 148,463; Nov. 15.
- Watches, watchcases, watch dials and movements, and alarm-clocks. E. Gisiger. Nos. 149,070-5; Dec. 6.
- Watchcases and parts thereof, watches, and watch-movements. R. A. Gsell. No. 146,242; Sept. 6; v. 290; p. 199.
- Watchcases. A. Bulova. No. 141,286; Apr. 12; v. 285; p. 387.
- Watchcases. R. J. Macher. No. 141,599; Apr. 26; v. 285; p. 781.
- Water. Coe & Hill. No. 146,969; Sept. 27; v. 290; p. 804.
- Water and its products, Natural spring-. Chippewa Springs Corporation. No. 144,721; July 19; v. 288; p. 616.
- Water, Artificial mineral. Diamond Chemical Co. No. 146,725; Sept. 20; v. 290; p. 633.
- Water-bag journal-coolers. I. L. Burlingame. No. 149,859; Dec. 27.
- Water bags and bags for ice-packs, Hot and cold. R. J. Bowell. No. 142,455; May 17; v. 286; p. 624.
- Water, Certain medicinal mineral. D. S. Campbell. No. 148,794; Nov. 29.
- Water-circulating systems. Leak-curling compound for. Malcomb & Malcomb. No. 143,393; May 31; v. 286; p. 1050.
- Water gages and columns, certain gage-glass specialties. S. S. P. Manufacturing Company. No. 147,691; Oct. 25.
- Water-heaters and heating-stoves. Gas. Lawson Manufacturing Company. No. 146,042; Aug. 23; v. 289; p. 793.
- Water-heaters, Gas. Bastian-Morley Co. No. 140,026; Mar. 1; v. 284; p. 175.
- Water-heaters, Gas. Bastian-Morley Co. No. 143,907; June 21; v. 287; p. 578.
- Water-heaters, Gas. Bastian-Morley Co. No. 148,787; Nov. 29.
- Water-heaters, Thermostatic controllers for. B. Ryan. No. 143,155; May 24; v. 286; p. 850.
- Water, Medicinal. Aquazone Laboratories. No. 146,632; Sept. 13; v. 290; p. 425.
- Water, Mineral. Salutaris Mineral Water Company. No. 140,204; Mar. 8; v. 284; p. 367.
- Water, Natural mineral. P. Cabañas Font. No. 146,738; Sept. 20; v. 290; p. 633.
- Water, Natural mineral. State of New York. Nos. 146,609-11; Sept. 13; v. 290; p. 422.
- Water, Natural mineral. State of New York. No. 148,539; Nov. 15.
- Water, Natural mineral. State of New York. No. 150,124; Dec. 27.
- Water, Natural thermal. Aachener Thermalwasser "Kaiserbrunnen" Aktiengesellschaft. No. 148,775; Nov. 29.
- Water-softener. Rix Manufacturing Company. No. 149,798; Dec. 20.
- Water-softener. Sudless Products Company. No. 143,752; June 7; v. 287; p. 187.
- Water-softening. Machines and devices for. Refinite Company. No. 140,948; Mar. 29; v. 284; p. 948.
- Water-stills. Barnstead Still and Sterilizer Co. No. 144,098; June 21; v. 287; p. 585.
- Waters, distilled and soda waters, Carbonated flavoring. Eilert Products Company. No. 139,526; Feb. 8; v. 283; p. 350.
- Waters, Mineral. Rubinat. No. 143,150; May 24; v. 286; p. 850.
- Waters, Mineral. Schweppes, Limited. No. 143,741; June 7; v. 287; p. 187.
- Waters, Mineral. Veronica Medicinal Springs Water Co. No. 144,291; June 28; v. 287; p. 777.
- Waters, Mineral. White Rock Mineral Springs Company. No. 145,203; July 26; v. 288; p. 816.
- Waterproof and fireproof fabrics, table-mats, &c. Phillip Carey Manufacturing Company. No. 143,429; May 31; v. 286; p. 1051.
- Waterproof and weatherproof coats. United States Rubber Company. No. 144,958; July 19; v. 288; p. 623.
- Waterproof bloomers, Babies'. Rubberized Sheetting & Specialty Co. No. 149,327; Dec. 6.
- Waterproof boots. B. F. Goodrich Company. No. 141,562; Apr. 26; v. 285; p. 780.
- Waterproof cement. Vortex Manufacturing Company. No. 144,674; July 12; v. 288; p. 429.



- Waterproof coats. Pearson Brothers. No. 147,666; Oct. 25.
- Waterproof coats. A. J. Tower Company. No. 147,420; Oct. 11.
- Waterproof coats and slickers. J. T. Caradine. No. 140,092; Mar. 8; v. 284; p. 363.
- Waterproof coating for textiles and leather. J. H. Overton. No. 145,768; Aug. 16; v. 289; p. 596.
- Waterproof cotton piece goods. Textile Service Co. No. 143,488; May 31; v. 286; p. 1053.
- Waterproof dressing. National Weather-Proof Paint Co. No. 142,382; May 10; v. 286; p. 409.
- Waterproof enamel paint for woodwork and metal. D. B. Crockett. No. 142,484; May 17; v. 286; p. 625.
- Waterproof garments for small children. A. M. M. White. No. 144,973; July 19; v. 288; p. 624.
- Waterproof liquid. Statite Waterproofing Products Co. No. 150,125; Dec. 27.
- Waterproof machine-belted made of leather. Druid Oak Belting Company. No. 143,319; May 31; v. 286; p. 1048.
- Waterproof oiled piece goods. B. Reis. No. 142,104; May 3; v. 286; p. 190.
- Waterproof roofing-sheets and shingles. Barber Asphalt Paving Company. No. 144,695; July 19; v. 288; p. 615.
- Waterproof upholstering fabrics. O'Bannon Corporation. No. 145,516; Aug. 2; v. 289; p. 186.
- Waterproofed coats, jackets, boots, shoes, &c. B. F. Goodrich Company. No. 143,623; June 7; v. 287; p. 184.
- Waterproofed cotton fabric in the piece. Howlett & Hockmeyer Co. No. 139,737; Feb. 15; v. 283; p. 543.
- Waterproofed tents, tent-fles, tarpaulins, &c. Eastern Finishing Works. No. 140,589; Mar. 22; v. 284; p. 744.
- Waterproofing composition for fabrics. W. B. Price. No. 145,995; Aug. 23; v. 289; p. 789.
- Waterproofing compounds for leather. Sek Manufacturing Company. No. 139,728; Feb. 15; v. 283; p. 541.
- Waterproofing compound for roofing and construction use. J. P. O'Connell. No. 146,592; Sept. 13; v. 290; p. 422.
- Waterproofing liquid for treating fabrics. Goheen Corporation. No. 143,955; June 21; v. 287; p. 579.
- Waterproofing textiles. Preparation for. T. D. Kelly. No. 140,856; Mar. 29; v. 284; p. 945.
- Wax for sewing-thread. Liquid. J. T. Roebuck. No. 145,799; v. 289; p. 597.
- Wax, Ironing-. S. Bernstein. No. 139,118; Jan. 25; v. 282; p. 733.
- Wax polish, Liquid-. J. Golding. No. 147,102; Oct. 4.
- Wearing-apparel, Knitted. Hygrade Knitting Co. No. 144,320; June 28; v. 287; p. 781.
- Weather-stripping, Metal. Diamond Metal Weather Strip Co. No. 147,983; Nov. 8.
- Webbing, cord, and braid, dress-belted, Elastic. Omo Manufacturing Co. No. 145,167; July 26; v. 288; p. 815.
- Webbing, Elastic. Russell Manufacturing Company. No. 140,531; Mar. 15; v. 284; p. 585.
- Webbings. Notadaw Company. No. 140,051; Mar. 1; v. 284; p. 177.
- Webbings and ladies' dress-belted, Elastic. Russell Manufacturing Company. Nos. 143,451-2; May 31; v. 286; p. 1052.
- Webbings, Elastic. Russell Manufacturing Company. Nos. 140,532-6; Mar. 15; v. 284; pp. 585-6.
- Webbings, Elastic. Russell Manufacturing Company. No. 143,453; May 31; v. 283; p. 1052.
- Webbings, Elastic. Russell Manufacturing Company. No. 144,048; June 21; v. 287; p. 582.
- Webbings, garters, hose-supporters and suspenders, Elastic. Russell Manufacturing Company. No. 143,447; May 31; v. 286; p. 1052.
- Webbings, ladies' dress-belted, garters, &c., Elastic. Russell Manufacturing Company. No. 143,446; May 31; v. 286; p. 1052.
- Webbings, ladies' dress-belted, garters, &c., Elastic. Russell Manufacturing Company. No. 143,448; May 31; v. 286; p. 1052.
- Webbings, Elastic and non-elastic. Everlastik Incorporated. No. 139,980; Mar. 1; v. 284; p. 173.
- Webbings, Russell Manufacturing Company. Nos. 143,151-2; May 24; v. 286; p. 850.
- Welding and brazing rods of certain metals and metallic electric welding-rods. Morey Flux & Chemical Company. No. 148,595; Nov. 15.
- Welding and cutting apparatus, Oxyacetylene. Air Reduction Company. No. 141,469; Apr. 26; v. 285; p. 777.
- Welding and cutting machines and accessories and acetylene-generators. Davis-Bournonville Company. No. 139,128; Jan. 25; v. 282; p. 733.
- Welding compounds. Hill-Smith Metal Goods Company. No. 143,979; June 21; v. 287; p. 580.
- Welding, cutting, and removing torches, tips, and parts thereof. "Weldrite" Company Incorporated. No. 149,542; Dec. 13.
- Welding electrodes, Metal-. Electric Arc Cutting and Welding Company. No. 145,086; July 26; v. 288; p. 813.
- Welding fluxes. Morey Flux and Chemical Company. No. 147,875; Nov. 1.
- Welding-machines, Electric. Electric Arc Cutting and Welding Company. No. 148,007; Nov. 8.
- Welding metal. Associated Welding Companies. No. 139,477; Feb. 8; v. 283; p. 349.
- Welding-rods. W. H. Boorne. No. 140,756; Mar. 29; v. 284; p. 942.
- Welding sheet aluminum, Flux for. Davis-Bournonville. No. 141,741; Apr. 26; v. 285; p. 787.
- Welding sheet-aluminum, Flux for. Davis-Bournonville Company. No. 142,977; May 24; v. 286; p. 845.
- Well-drilling tools and appliances. Wire Rope Appliance Company. No. 141,019; Mar. 29; v. 284; p. 930.
- Well drilling or boring apparatus and accessories, Oil and gas. Lucey Manufacturing Corporation. No. 144,430; July 5; v. 288; p. 194.
- Wells, Preparation for cleaning and renovating oil and gas. J. R. Flannery. No. 138,964; Jan. 18; v. 282; p. 554.
- Wheat and corn products. Dahnke-Walker Milling Co. No. 143,580; June 7; v. 287; p. 182.
- Wheel-pullers, metal braces for machinery, &c. Cooper Manufacturing Company. No. 140,265; Mar. 8; v. 284; p. 370.
- Wheelbarrows. Puffer-Hubbard Manufacturing Company. No. 143,833; June 7; v. 287; p. 194.
- Wheels. Dayton Automotive Wheel Company. No. 145,502; Aug. 2; v. 289; p. 184.
- Wheels and demountable rims. Harvey Rim and Wheel Company. No. 148,069; Nov. 8.
- Wheels, Automobile steering-. Detroit Steering Wheel Corp. No. 143,797; June 7; v. 287; p. 190.
- Wheels, chassis, chassis forgings and castings. American Steel Foundries. No. 143,235; May 24; v. 286; p. 855.
- Wheels for bicycles, &c. Briggs & Stratton Company. No. 140,259; Mar. 8; v. 284; p. 370.
- Wheels for motor-vehicles, Road-. The Dayton Wire Wheel Company. No. 139,285; Feb. 1; v. 283; p. 168.
- Wheels for motor-vehicles, Road-. Dayton Wire Wheel Company. No. 140,266; Mar. 8; v. 284; p. 370.
- Wheels, Traction-shoes for. Grid-Iron-Grip Company. No. 140,601; Mar. 22; v. 284; p. 744.
- Wheels, Turbine water-. Holyoke Machine Co. No. 141,886; Apr. 19; v. 285; p. 567.
- Wheels, Vehicle-. Duodisk Steel Wheel Corporation. No. 145,349; Aug. 2; v. 289; p. 178.
- Whips. Diamond Whip Company. No. 149,899; Dec. 27.
- Whiskies, brandies, and gins. S. Torii. No. 139,413; Feb. 1; v. 283; p. 172.
- Whisky. Sunny Brook Distillery Co. No. 142,338; May 10; v. 286; p. 406.
- Whist score-card. M. Moir. No. 150,012; Dec. 27.
- White and colored bond paper for writing, printing, and wrapping. F. M. Warner. No. 140,691; Mar. 22; v. 284; p. 747.
- Whittling kits. John Russell Cutlery Co. No. 140,673; Mar. 22; v. 284; p. 747.
- Whittling kits. John Russell Cutlery Co. No. 141,429; Apr. 19; v. 285; p. 568.
- Wicking used for packing purposes. Massasoit Manufacturing Company. No. 141,166; Apr. 12; v. 285; p. 382.
- Wicks, Woven. National Enameling & Stamping Co. No. 149,597; Dec. 13.
- Wigs. National Hair Goods Co. No. 147,653; Oct. 25.
- Winding-machines for thread, yarn, cord, twine, &c., counter-shafts, and parts thereof. Universal Winding Company. No. 138,585; Jan. 11; v. 282; p. 378.
- Windlasses, hoisting-engines, deck-wrenches, &c. Hyde Windlass Company. No. 140,403; Mar. 15; v. 284; p. 582.
- Windmills and parts. Flint and Walling Mfg. Co. No. 140,805; Mar. 29; v. 284; p. 943.
- Window and door frames. Crowley Co. No. 143,322; May 31; v. 286; p. 1048.
- Window-stands for displaying goods. J. Mansell-Phayre. No. 142,607; May 17; v. 286; p. 629.
- Window-regulators. Dura Mechanical Hardware Co. No. 149,907; Dec. 27.
- Window valances, panels, and drape-shades. National Decorative Company. No. 147,651; Oct. 25.
- Windows and windshields, Preparation for preventing misting of. J. J. Cook Chemical Co. No. 145,255; July 26; v. 288; p. 821.
- Windows and showcases, Electric display-signs for. B. & B. Sign Co. Inc. No. 148,603; Nov. 15.
- Wind-shields and windows, Compound for preventing fogging of. S. F. Franklin. No. 139,538; Feb. 8; v. 283; p. 351.
- Windshield-cleaners. B. I. Malouf Company. No. 142,604; May 17; v. 286; p. 629.
- Windshield-cleaner. K-M Manufacturing Company. No. 148,115; Nov. 8.
- Windshield-cleaners, squeegee type. The Folberth Auto Specialty Co. No. 148,578; Nov. 15.
- Windshields, Water-deflecting dressing for. G. H. Priddy. No. 150,065; Dec. 27.
- Wine. California Wine Association. No. 139,261; Feb. 1; v. 283; p. 168.
- Wine. O'Brien & Co. No. 142,076; May 3; v. 286; p. 189.
- Wine, Rhine. Alsace Lorraine Development & Trading Company. No. 148,777; Nov. 29.
- Wines. W. H. Chaplin & Co. No. 139,926; Feb. 22; v. 283; p. 757.



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- Wines. Continental Distributing Company. No. 139,511; Feb. 8; v. 283; p. 350.
- Wines. O'Brien & Co. No. 144,618; July 12; v. 288; p. 425.
- Wines. S. Toril. No. 141,703; Apr. 26; v. 285; p. 784.
- Wines, Non-alcoholic. W. H. Hommel. No. 143,370; May 31; v. 286; p. 1050.
- Wire articles. Morgan Spring Company. No. 149,459; Dec. 13.
- Wire baskets. Barbee Wire & Iron Works. No. 147,918; Nov. 8.
- Wire, Bottle-. Klatscher & Lorenz. No. 141,398; Apr. 19; v. 285; p. 567.
- Wire-cloth, Screen. American Wire Fabrics Company. No. 147,195; Oct. 4.
- Wire cloth and netting. American Cellulose & Chemical Manufacturing Company. No. 147,746; Nov. 1.
- Wire cloth and netting. American Cellulose & Chemical Manufacturing Company. No. 147,901; Nov. 8.
- Wire concrete-reinforcement, Woven-. American Steel and Wire Company of New Jersey. No. 141,843; May 3; v. 286; p. 181.
- Wire fabric. Moore Company. No. 144,205; June 28; v. 287; p. 774.
- Wire fabric for supporting mattresses and cushions. Moore Company. No. 142,621; May 17; v. 286; p. 629.
- Wire fencing, Woven-. American Steel & Wire Company of New Jersey. No. 144,096; June 21; v. 287; p. 585.
- Wire for electrical purposes. J. E. Dockendorff & Co. No. 139,712; Feb. 15; v. 283; p. 541.
- Wire for electrical purposes, Rubber-covered. A. A. Wire Co. No. 143,226; May 24; v. 286; p. 853.
- Wire for electrical use, insulation materials, &c., Simplex Wire & Cable Company. No. 143,473; May 31; v. 286; p. 1053.
- Wire, High-strain galvanized. John Dunn Son & Co. Nos. 141,536-7; Apr. 26; v. 285; p. 779.
- Wire rope. A. Leshen & Sons Rope Company. Nos. 146,529-30; Sept. 6; v. 290; p. 218.
- Wire rope. W. H. Worden Co. No. 150,187; Dec. 27.
- Wire-screen-cloth, Woven-. Wickwire Spencer Steel Corporation. No. 146,407; Sept. 6; v. 290; p. 204.
- Wire screen-cloth, Woven-. W. S. Tyler Company. No. 148,549; Nov. 15.
- Wire-working and other machines. Sleeper & Hartley. No. 149,505; Dec. 13.
- Wires. Magnuet-. Belden Manufacturing Company. No. 147,924; Nov. 8.
- Wireless spark-gaps and instruments, &c. I. M. Cohn. No. 140,777; Mar. 29; v. 284; p. 942.
- Witch-hazel cream. E. E. Hess Company. No. 145,962; Aug. 23; v. 289; p. 788.
- Wood-polish. Puritan Drug Mfg. Co. No. 150,068; Dec. 27.
- Wood-preserving compound. Georgia Vita Ligno Co. No. 143,205; May 24; v. 286; p. 852.
- Wood, plywood, Built-up. Gorham Brothers Company, The. No. 148,054; Nov. 8.
- Woodwork, table, and floor polish. Alex D. Shaw & Co. No. 146,357; Sept. 6; v. 290; p. 203.
- Wood-preservative. G. H. Voter, Inc. No. 148,747; Nov. 22.
- Wood-preservatives and dyes-sprays. Standard Tar Products Co. No. 148,269; Nov. 8.
- Wool and cotton piece goods, Mixture of. William Hollins & Co. No. 140,831; Mar. 29; v. 284; p. 944.
- Wool and yarn treating machinery. C. G. Sargent's Sons Corporation. No. 141,432; Apr. 19; v. 285; p. 569.
- Woolen and cotton piece goods. Adams-Milroy, Incorporated. No. 140,543; Mar. 22; v. 284; p. 743.
- Woolen and cotton piece goods. Millbrook Woolen Mills. Nos. 141,778-9; Apr. 26; v. 285; p. 790.
- Woolen and cotton piece goods. Walworth Sales Corporation. No. 145,477; Aug. 2; v. 289; p. 182.
- Woolen and partly-woolen goods in the piece. D. J. Church. No. 140,579; Mar. 22; v. 284; p. 744.
- Woolen and worsted cloth in piece goods. A. C. Gaunt. No. 149,066; Dec. 6.
- Woolen and woolen and silk piece goods. Joseph Eckstein, Inc. No. 145,555; Aug. 9; v. 289; p. 407.
- Woolen and woolen and silk piece goods. Joseph Eckstein, Inc. No. 146,083; Aug. 30; v. 289; p. 1013.
- Woolen and worsted piece goods. Pontuous Woolen Mfg. Co. No. 149,202; Dec. 6.
- Woolen cloth in the piece. Rudolph Schreiber, Inc. No. 148,600; Nov. 15.
- Woolen cloth in the piece. Rudolph Schreiber, Inc. No. 148,602; Nov. 15.
- Woolen, cotton, and linen fabrics in the piece and combinations thereof. Haas Brothers Fabrics Corporation. No. 146,109; Aug. 30; v. 289; p. 1014.
- Woolen goods in the piece. Andrews Mill Company. No. 145,031; July 26; v. 288; p. 811.
- Woolen goods in the piece. J. A. Doyle. No. 149,902; Dec. 27.
- Woolen goods in the piece. Worumbo Manufacturing Company. No. 149,297; Dec. 6.
- Woolen, mohair, &c., piece goods. Goodall Worsted Co. No. 139,305; Feb. 1; v. 283; p. 169.
- Woolen piece goods. F. R. Allmann. No. 145,496; Aug. 2; v. 289; p. 183.
- Woolen piece goods. Angora Specialty Co. No. 144,686; July 19; v. 288; p. 615.
- Woolen piece goods. Cohen & Ehrenberg. No. 147,204; Oct. 4.
- Woolen piece goods. Forstmann & Huffmann Co. No. 143,338; May 31; v. 286; p. 1049.
- Woolen piece goods. Forstmann & Huffmann Co. Nos. 143,605-11; June 7; v. 287; p. 183.
- Woolen piece goods. Forstmann & Huffmann Co. Nos. 143,949-51; June 21; v. 287; p. 579.
- Woolen piece goods. Forstmann & Huffmann Company. No. 144,767; July 19; v. 288; p. 617.
- Woolen piece goods. Forstmann & Huffmann Company. Nos. 144,769-70; July 19; v. 288; pp. 617-18.
- Woolen piece goods. Forstmann & Huffmann Company. Nos. 146,092-7; Aug. 30; v. 289; p. 1014.
- Woolen piece goods. Forstmann & Huffmann Company. Nos. 146,227-8; Sept. 6; v. 290; p. 199.
- Woolen piece goods. Forstmann & Huffmann Company. No. 146,740; Sept. 20; v. 290; p. 633.
- Woolen piece goods. Forstmann & Huffmann Company. No. 147,096; Oct. 4.
- Woolen piece goods. Forstmann & Huffmann Co. No. 148,330; Nov. 8.
- Woolen piece goods. Forstmann & Huffmann Company. No. 149,923; Dec. 27.
- Woolen piece goods. D. M. Oberman Manufacturing Company. No. 149,601; Dec. 13.
- Woolen piece goods. Princess Textile Mills. No. 148,217; Nov. 8.
- Woolen piece goods. Worumbo Manufacturing Company. No. 144,090; June 21; v. 287; p. 583.
- Woolen piece goods and cloths. Bruner Woolen Company. No. 144,709; July 19; v. 288; p. 616.
- Woolen piece goods, suitings, and overcoating. F. C. Huyck & Sons. No. 149,954; Dec. 27.
- Woolens, broad silks, velvets, &c. J. A. Migel, Inc. No. 148,163; Nov. 8.
- Woolens in the piece. Ph. Lehrer & Son. No. 140,163; Mar. 8; v. 284; p. 366.
- Woolens, worsteds, &c., sold in the piece. Nat Ginsburg & Bro. No. 141,560; Apr. 26; v. 285; p. 780.
- Worm-destroyer, hog-tonic, poultry-regulator. Dr. Charles S. Moore. No. 145,749; Aug. 16; v. 289; p. 595.
- Worm preventive, Screw-. C. C. Parker. No. 144,622; July 12; v. 288; p. 425.
- Worsted and woolen fabrics in the piece. Holden-Leonard Company. No. 145,965; Aug. 23; v. 289; p. 788.
- Worsted and woolen textile fabrics. Holden-Leonard Company. No. 146,110; Aug. 30; v. 289; p. 1014.
- Worsted and woolen textile fabrics in the piece. Holden-Leonard Company. No. 146,251; Sept. 6; v. 290; p. 200.
- Worsted and woolen textile fabrics in the piece. Holden-Leonard Co. Nos. 146,768-9; Sept. 20; v. 290; p. 634.
- Worsted cloths in the piece. Rudolph Schreiber, Inc. No. 148,601; Nov. 15.
- Worsted trimming for use in art-needlework. Lorimer, Greenbaum Co. No. 149,435; Dec. 13.
- Worsteds and woolens in the piece. Montrose Worsted Company. No. 146,299; Sept. 6; v. 290; p. 201.
- Worsteds in the piece. W. E. Tillotson Manufacturing Company. No. 138,879; Jan. 11; v. 282; p. 378.
- Worsteds in the piece. Ardross Worsted Co. No. 147,539; Oct. 25.
- Woven, knitted, netted, textile and pile fabrics in the piece. Cheney Brothers. No. 146,709; Sept. 20; v. 290; p. 632.
- Woven, knitted, netted, textile, and pile fabrics in the piece. Cheney Brothers. No. 147,279; Oct. 11.
- Woven, knitted, netted, textile, and pile fabrics in the piece. Cheney Brothers. No. 147,567; Oct. 25.
- Wrappers. Mid West Box Company. No. 142,616; May 17; v. 286; p. 629.
- Wraps, suits, dresses, coats, &c. L. Gold. No. 143,519; May 31; v. 286; p. 1055.
- Wreaths, Metal frames for. C. Smith. No. 146,509; Sept. 6; v. 290; p. 216.
- Wrenches. L. F. Grammes & Sons. No. 138,819; Jan. 11; v. 282; p. 376.
- Wrenches. D. C. Munro. No. 147,649; Oct. 25.
- Wrenches. Niagara Manufacturing Company. No. 147,382; Oct. 11.
- Wrenches. E. Schwarz. No. 149,233; Dec. 6.
- Wrenches. Snap-On Wrench Company. No. 147,515; Oct. 18.
- Wrenches. Victor Manufacturing Company. No. 144,079; June 21; v. 287; p. 583.
- Wrenches, Ratchet-. Clip Bar Manufacturing Co. No. 144,108; June 21; v. 287; p. 586.
- Wrenches, Socket-. American Grinder Manufacturing Company. No. 139,111; Jan. 25; v. 282; p. 733.
- Wrinkle-eradicator and muscle-builder for flabby faces and a hair-tonic and dandruff cure. N. C. Coon. No. 143,922; June 21; v. 287; p. 578.
- Writing device in the nature of an ouija board, Mechanical. The William T. Stead Memorial Center. No. 139,639; Feb. 8; v. 283; p. 354.
- Writing fluid. Reynolds Bros. No. 143,148; May 24; v. 286; p. 850.
- Writing fluids. W. A. Sheaffer Pen Co. No. 142,760; May 17; v. 286; p. 633.
- Writing-tablets. E. L. Tichenor Co. No. 143,491; May 31; v. 286; p. 1053.
- X-ray apparatus, electrical time-switches, and speed-governors, &c. International Devices Company. No. 144,808; July 19; v. 288; p. 619.



*Alphabetical list of trade-marks—Continued.*

- X-ray dry plates. G. Cramer Dry Plate Company. No. 147,292; Oct. 11.
- X-ray tables and parts thereof. Campbell Electric Co. No. 141,735; Apr. 26; v. 285; p. 786.
- Xylophones. J. C. Deagan, Inc. Nos. 146,449-51; Sept. 6; v. 290; p. 209.
- Yard goods used in bedspreads, sheets, &c. L. S. Plant & Co. No. 149,715; Dec. 20.
- Yarn. Yarn Novelty Co. No. 143,229; May 24; v. 286; p. 853.
- Yarn and threads. Finlayson, Bousfield & Co. No. 142,266; May 10; v. 286; p. 404.
- Yarn, Artificial-silk. Senor & Wertheim. No. 145,223; July 26; v. 288; p. 817.
- Yarn, Silk hosiery-. Southern Export Corporation. No. 141,684; Apr. 26; v. 285; p. 783.
- Yarn, thread-floss, &c. Bernhard Ulmann Co. No. 145,194; July 26; v. 288; p. 816.
- Yarn, Wool. Sears, Roebuck & Company. No. 141,670; Apr. 26; v. 285; p. 783.
- Yarns. American Trading Company. No. 143,276; May 31; v. 286; p. 1047.
- Yarns. American Trading Company. No. 145,597; Aug. 16; v. 289; p. 591.
- Yarns. J. E. Barbour Company. No. 145,602; Aug. 16; v. 289; p. 391.
- Yarns. Dixie Mercerizing Company. No. 149,368; Dec. 13.
- Yarns. Home Woolen Mills. No. 149,112; Dec. 6.
- Yarns. A. Hymes. No. 148,863; Nov. 29.
- Yarns. George W. Kavanaugh Inc. No. 139,334; Feb. 1; No. 139,350; Feb. 1; v. 283; p. 170.
- Yarns. M. E. Smith & Co. No. 140,971; Mar. 29; v. 284; p. 948.
- Yarns. Toulson & Renesch. No. 147,821; Nov. 1.
- Yarns. H. Weissberg. No. 148,308; Nov. 8.
- Yarns and floss. Domestic Mills Company. No. 149,034; Dec. 6.
- Yarns and thread. Dexter Yarn Company. Nos. 141,110-12; Apr. 12; v. 285; p. 380.
- Yarns and threads. Bernhard Ulmann Co. No. 143,495; May 31; v. 286; p. 1054.
- Yarns and threads. Cherokee Spinning Co. No. 142,957; May 24; v. 286; p. 844.
- Yarns and threads. Cherokee Spinning Company. No. 149,356; Dec. 13.
- Yarns and threads. Dexter Yarn Company. No. 145,072; July 26; v. 288; p. 812.
- Yarns, Cotton. Ridge Mills Inc. No. 144,045; June 21; v. 287; p. 582.
- Yarns, Cotton. The Fine Cotton Spinners and Doublers Association. No. 141,546; Apr. 26; v. 285; p. 779.
- Yarns, Hand-knitting. Penn Worsted Company. No. 147,243; Oct. 4.
- Yarns, Silk. J. D. Rogers. No. 145,192; July 26; v. 288; p. 816.
- Yarns, Wool, cotton, and silk. L. Stockman & Son. No. 145,465; Aug. 2; v. 289; p. 182.
- Yarns, Woolen and worsted. Berg Brothers. No. 142,933; May 24; v. 286; p. 843.
- Yarns, Worsteds, woolen, silk, &c. James Lees and Sons Company. No. 141,592; Apr. 26; v. 285; p. 781.
- Yeast. H. B. Klosterman. No. 144,321; June 28; v. 287; p. 781.
- Yeast employed in the fermentation of doughs, Mixture for stimulating the propagation of. Economic Materials Co. No. 144,762; July 19; v. 288; p. 617.
- Yeast, Medicinal. Enterprise Dry Yeast Corporation. No. 146,087; Aug. 30; v. 289; p. 1014.
- Zinc. New Jersey Zinc Company. No. 148,185; Nov. 8.
- Zinc oxid. New Jersey Zinc Company. No. 144,530; July 5; v. 288; p. 199.
- Zinc oxid and mixtures containing same. American Zinc, Lead and Smelting Company. No. 146,678; Sept. 20; v. 290; p. 631.
- Zinc oxid. New Jersey Zinc Company. No. 148,183; Nov. 8.
- Zinc, Slab-. New Jersey Zinc Company. No. 144,137; June 21; v. 287; p. 589.
- Zinc-white. Orr's Zinc White Limited. No. 145,896; Aug. 16; v. 289; p. 602.

## ALPHABETICAL LIST OF LABELS.

- "A B C." (For Bread.) Saniwax Paper Co. No. 22,980; May 31; v. 286; p. 1058.
- "A, B, C." (For Packages and Cartons Containing Marshmallow Cream.) American Marshmallow and Candy Company. No. 23,654; Nov. 22.
- "A. G. S." (For Coffee.) American Grocers Company Inc. No. 22,944; May 31; v. 286; p. 1057.
- "A. L. Brand." (For Hair-Restorative.) A. Lichtstein. No. 23,599; Nov. 1.
- "A. L. Brand." (For Dandruff Remedy.) A. Lichtstein. No. 23,600; Nov. 1.
- "A Baked Rabbit." (For Cheese Crackers.) Green and Green Company. No. 23,850; Dec. 27.
- "A Childs Handkerchief for Every Day in the Week." (For Boxes for Handkerchiefs.) R. & R. Handkerchief Co. No. 23,718; Nov. 29.
- "A' Condimentine." (For Cartons Containing "A' Condimentine, a Preparation for Use in Sausage and Sausage-Meat.) B. Heller & Co. No. 22,903; May 24; v. 286; p. 860.
- "A Delightful Hair Dressing." (For Treatment of Dandruff and Itching Scalp.) The Herpicide Company. Nos. 23,115-16; July 12; v. 288; p. 430.
- "A Good Sleeper Rip Van Winkle." (For Sleeping-Garments.) J. Silberman. No. 22,510; Feb. 1; v. 283; p. 179.
- "A-I' Brisk." (For Vegetable Compound for Shortening and Cooking Purposes.) Globe Cotton Oil Mills. No. 22,733; Mar. 22; v. 284; p. 753.
- "A Lamp for Miners Invented by a Miner." (For Cartons for Miner's Lamp.) Shanklin Manufacturing Company. No. 23,239; Aug. 23; v. 289; p. 797.
- "A Schilling Product." (For Prepared Coffee.) A. Schilling & Company. No. 22,926; May 24; v. 286; p. 860.
- "A Schilling Product." (For Prepared Cream of Tartar.) A. Schilling & Company. No. 22,927; May 24; v. 286; p. 860.
- "A Schilling Product." (For Flavoring Extracts—viz., Vanilla.) A. Schilling & Company. No. 22,928; May 24; v. 286; p. 860.
- "A Schilling Product." (For Prepared Spices—viz., Pepper.) A. Schilling & Company. No. 22,929; May 24; v. 286; p. 861.
- "A Schilling Product." (For Prepared Tea.) A. Schilling & Company. No. 22,930; May 24; v. 286; p. 861.
- "A Schilling Product." (For Baking-Powder.) A. Schilling & Company. No. 22,931; May 24; v. 286; p. 861.
- "A Wax for a Good Dancing Floor." (For a Preparation Specially Adapted for Use on Floors.) J. P. Steidle. No. 23,106; July 5; v. 288; p. 202.
- "Abesco Coconut Oil." (For Coconut-Oil Shampoo.) Atlanta Barbers' Supply Co. No. 23,177; Aug. 23; v. 289; p. 796.
- "Absorbine, Jr., the Antiseptic Liniment." (For Absorbine, Jr. Liniment.) W. F. Young, Inc. No. 22,789; Mar. 22; v. 284; p. 754.
- "Accurate Thermometer a Real Necessity for the Home and Office." (For Thermometers.) J. E. Ward. No. 22,778; Mar. 22; v. 284; p. 754.
- "Ace." (For Evaporated Milk.) Tri-State Milk Products Co. No. 23,241; Aug. 23; v. 289; p. 797.
- "Aceite Caliente." (Hot Oil.) (For a Liniment Called Aceite Caliente.) Spanish Chemical Co. No. 23,705; Nov. 22.
- "Acme Arch Grip Shoe." (For Shoes.) Geo. E. Coffin Shoe Co. No. 23,065; July 5; v. 288; p. 201.
- "Actor's Club." (For Coffee.) A. C. Xynos & Company. No. 22,524; Feb. 1; v. 283; p. 179.
- "Actuelle." (For Phonograph-Records.) Pathe Freres Phonograph Company. No. 22,836; Mar. 29; v. 284; p. 956.
- "Alamo Brand." (For Cantaloups.) Alamo Packing Company. No. 22,790; Mar. 29; v. 284; p. 955.
- "Alamo Brand." (For Cantaloups.) Alamo Packing Company. No. 23,653; Nov. 22.
- "Albertus Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,483; Feb. 1; v. 283; p. 178.
- "Alco Auto Polish." (For Automobile-Polish.) The Alco Co. No. 22,893; May 24; v. 286; p. 860.
- "Aldrich's A No. 1 A Back-to-the-Old Times Good Cigar." (For Boxes Containing Cigars.) C. D. Aldrich. No. 23,021; June 21; v. 287; p. 592.
- "All Cream Ice Cream." (For Cartons Containing Ice Cream.) Menasha Printing and Carton Company. No. 22,651; Mar. 8; v. 284; p. 376.
- "All in One Malt Extract." (For Cans Containing Malt Extract.) H. D. Sterrick. No. 22,984; May 31; v. 286; p. 1058.
- "All over the World Brand, Malzones." (For Confectionery.) A. Malzone & Sons. No. 23,553; Oct. 25.
- "All Purpose Cocoa." (For Cocoa.) Runkel Brothers. No. 22,412; Jan. 18; v. 282; p. 563.
- "All Saints." (For Cigars.) All Saints Cigar Co. Nos. 23,440-1; Oct. 18.
- "All Star Assortment." (For Packages Containing Toy Balloons.) Richard D. Bakrow & Son. Nos. 22,992-3; June 14; v. 287; p. 403.
- "Allen A Hosiery." (For Hosiery.) The Allen A Company. No. 23,617; Nov. 8.
- "Allen A Spring Needle Underwear." (For Underwear.) The Allen A Company. No. 23,615; Nov. 8.
- "Allen A Summerwear." (For Underwear.) The Allen A Company. No. 23,616; Nov. 8.
- "Allen Tire Case." (For Cases for Automobile-Tires.) The Allen Auto Specialty Co. Nos. 23,172-5; Aug. 23; v. 289; p. 796.



## Alphabetical list of labels—Continued.

- "Allen Tire Case." (For Cases for Automobile-Tires.) The Allen Auto Specialty Co. Nos. 23,252-5; Aug. 30; v. 289; p. 1019.
- "Allen's Jersey Brand Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,827; Mar. 29; v. 284; p. 956.
- "Almond Honey Cucumber Lotion." (For Healing and Soothing Lotion for Use After Shaving, Also upon Emollients for Whitening and Softening the Face, Neck, and Arms, and for Relieving Roughness, Chafing, Irritations, Windburn, Sunburn, and Chapped Skin or Lips.) Harriet Hubbard Ayer. No. 23,511; Oct. 25.
- "Alpha Automobile Polish." (For Bottles Containing a Polish for Automobiles.) G. W. Joeckel. No. 23,596; Nov. 1.
- "Ambrosia." (For Wheat-Flour.) Texas Star Flour Mills. No. 23,712; Nov. 22.
- "Ambrosia Milk Chocolates." (For Boxes of Candy.) Ambrosia Milk Chocolate Cream Co. No. 23,442; Oct. 18.
- "American Beauty Cotton Hose." (For Hosiery.) J. M. Blaetz. No. 22,797; Mar. 29; v. 284; p. 955.
- "American Brand." (For Screen Wire-Cloth.) American Wire Fabrics Company. No. 23,258; Aug. 30; v. 289; p. 1019.
- "Amho Heath Jacket." (For Heath Jackets, Garments for Sportsmen.) American Hosiery Company. No. 23,053; July 5; v. 288; p. 201.
- "Andee's Bed Bug and Roach Killer." (For Insecticides.) H. Andee. No. 22,945; May 31; v. 286; p. 1057.
- "Angel Quinine Hair Tonic." (For Hair-Tonic.) F. Madonna. No. 22,745; Mar. 22; v. 284; p. 753.
- "Angler." (For Canned Peas.) Inderrieden Canning Co. No. 23,629; Nov. 8.
- "Animated Cartoon of Auto Alley." (For Non-Serial Motion-Picture Films.) Russell-Greiver-Russell. No. 22,878; May 3; v. 286; p. 197.
- "Animated Cartoon of Gasoline Alley." (For Non-Serial Motion-Picture Films.) Russell-Greiver-Russell. No. 22,879; May 3; v. 286; p. 197.
- "Anko Jelly-Roll." (For Confections—Namely, Jelly-Rolls.) Anko Products Co. No. 22,611; Mar. 8; v. 284; p. 375.
- "Anti-Dirt." (For Cleanser.) Douglas Nu-Wa Co. No. 22,462; Feb. 1; v. 283; p. 178.
- "Apache." (For Cigars.) Trans-Pacific Trading Company, Inc. No. 23,151; July 26; v. 288; p. 827.
- "Apple Brand Shortening." (For a Compound of Choice Cotton-Seed Oil and Vegetable Stearin for Cooking Purposes.) International Refining Company. No. 23,365; Sept. 6; v. 290; p. 223.
- "Apple-Crush." (For Non-Intoxicating Cereal Beverage.) Mid West Products Co. No. 22,831; Mar. 29; v. 284; p. 956.
- "Ariel Standard." (For Golf-Balls.) J. Grondohl. No. 23,851; Dec. 27.
- "Arota." (For Cigars.) Union Cigar Maker's Co-Operative Society. No. 23,328; Aug. 30; v. 289; p. 1020.
- "Arrow." (For a Cereal Malt Beverage.) Globe Bottling & Sales Co. No. 23,359; Sept. 6; v. 290; p. 223.
- "Artcraft Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,486; Feb. 1; v. 283; p. 178.
- "Aseptifume." (For a Preparation Used to Destroy Obnoxious Odors and for Purifying the Air in Coolers, Rendering-Rooms, and Hide-Rooms.) B. Heller & Co. No. 23,078; July 5; v. 288; p. 201.
- "Aspirin." (For Cartons Inclosing Aspirin Tablets or Bottles Containing the Same.) Bayer Company, Inc. No. 22,569; Feb. 15; v. 283; p. 549.
- "Aspirina y Cafeina." (For Cartons Inclosing Aspirin Tablets or Bottles Containing the Same.) Bayer Company, Inc. No. 22,567; Feb. 15; v. 283; p. 549.
- "Aspirina y Fenacetina." (For Cartons Inclosing Aspirin Tablets or Bottles Containing the Same.) Bayer Company, Inc. No. 22,570; Feb. 15; v. 283; p. 549.
- "Assorted Bitter Sweet Chocolates." (For Boxes Containing Assorted Bitter-Sweet Chocolates.) Milwaukee Paper Box Company. No. 23,564; Oct. 25.
- "Assorted Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,491; Feb. 1; v. 283; p. 179.
- "Assorted Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,493; Feb. 1; v. 283; p. 179.
- "Assorted Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,701; Mar. 15; v. 284; p. 588.
- "Assorted Chocolates." (For Boxes Containing Assorted Chocolates.) Milwaukee Paper Box Company. No. 23,686; Nov. 22.
- "At-Water." (For Fresh Fruits.) Atwater Fruit Exchange. No. 23,025; June 28; v. 287; p. 783.
- "Atropadine." (For Preparation for the Treatment of Chronic Rheumatism, Lymphatic Enlargements, Burns, Lumbago, Frost-Bites, Sprains, Eczema, and Sciatica.) Ilaria Bros. No. 22,968; May 31; v. 286; p. 1057.
- "Auerbach." (For Chocolate Candy.) D. Auerbach & Sons. No. 22,946; May 31; v. 286; p. 1057.
- "Auerbach Animal Blocks." (For Sweet-Milk-Chocolate Blocks.) D. Auerbach & Sons. No. 22,894; May 24; v. 286; p. 860.
- "Aunt Jemima Company Cake." (For Cake-Flour.) Aunt Jemima Mills Company. No. 22,527; Feb. 8; v. 283; p. 361.
- "Aunt Molly's Butter Creams." (For Boxes Containing Butter-Creams.) Milwaukee Paper Box Company. No. 23,043; June 28; v. 287; p. 783.
- "Auto-Brite." (For a Liquid Compound for Cleaning, Polishing and Brightening Automobiles.) C. M. Taylor, Jr. No. 23,018; June 14; v. 287; p. 403.
- "Auto Glo." (For Containers Holding Auto Glo, a Polish for Automobile-Bodies and All Highly-Finished Surfaces.) B. Heller & Co. No. 23,292; Aug. 30; v. 289; p. 1020.
- "Autokraft." (For Welts, Bindings, and Gimps.) Woodward & Cohey. No. 22,853; Mar. 29; v. 284; p. 956.
- "Avon More." (For a Lime Drink.) John Graf Co. No. 22,469; Feb. 1; v. 283; p. 178.
- "Avona Blankets." (For Blankets.) Jordan Marsh Company. No. 22,393; Jan. 11; v. 282; p. 563.
- "Avona Sheets." (For Sheets.) Jordan Marsh Company. No. 22,394; Jan. 18; v. 282; p. 563.
- "Ayer's Face Cream." (For Face-Cream.) Harriet Hubbard Ayer. Nos. 23,156-7; Aug. 9; v. 289; p. 409.
- "Ayeristocrat." (For Non-Greasy, Finishing, and Vanishing Cream.) Harriet Hubbard Ayer. No. 23,153; Aug. 9; v. 289; p. 409.
- "B & B Baby Talc." (For Talcum Powder.) Bauer & Black. No. 23,840; Dec. 27.
- "B. B. B. Borinis Bird Blend." (For a Food Tonic for Cage-Birds.) H. L. Borini. No. 23,841; Dec. 27.
- "B. C. C. B." (For Caps, Hats, and Bonnets and Containers Therefor.) M. V. Brunk. No. 23,795; Dec. 20.
- "B. & J. R." (For Cigar-Boxes.) Strauss Bros. No. 23,406; Sept. 6; v. 290; p. 224.
- "B & S Garcia." (For Cigars.) Busch and Spreckels, Inc. No. 22,571; Feb. 15; v. 283; p. 549.
- "B. V. May." (For Hosiery.) May Hosiery Mills. No. 23,742; Dec. 13.
- "B' Condimentine." (For Cartons Containing "B' Condimentine, a Preparation in Use for Sausage and Sausage-Meat.) B. Heller & Co. No. 22,904; May 24; v. 286; p. 860.
- "B. Heller & Co's Hog-Scald." (For Cans Containing a Preparation Used for Scalding and Cleaning Hogs.) B. Heller & Co. No. 22,963; May 31; v. 286; p. 1057.
- "B. Heller & Co's Lard Purifier." (For Cartons Containing B. Heller & Co's Lard and Tallow Purifier.) B. Heller & Co. No. 22,966; May 31; v. 286; p. 1057.
- "Babbitt's White Naphtha." (For White Naphtha Soap.) B. T. Babbitt. No. 22,613; Mar. 8; v. 284; p. 375.
- "Baby Buster." (For Chick Feed.) Park & Pollard Co. No. 23,431; Sept. 13; v. 290; p. 431.
- "Baker's Coconut." (For Packaged Coconut.) Franklin Baker Company. No. 22,960; May 31; v. 286; p. 1057.
- "Bakers' Friend." (For Containers Holding Bakers' Friend, a Flavoring Compound.) B. Heller & Co. No. 23,290; Aug. 30; v. 289; p. 1019.
- "Baker's Leather Oil." (For Oils for Softening and Preserving All Kinds of Leather.) J. H. Baker. No. 22,791; Mar. 29; v. 284; p. 955.
- "Bandoline." (For Preparations for Keeping the Hair in Wave or Curl.) Harriet Hubbard Ayer. No. 23,180; Aug. 23; v. 289; p. 796.
- "Barbanell Face Powder." (For Face-Powder.) F. Barbanell. No. 23,520; Oct. 25.
- "Barbarossa." (For Tin Cans Containing Malt and Hop Extracts.) Red Top Malt Extract Co. No. 23,569; Oct. 25.
- "Barcalo Matt-Rest." (For Mattresses.) Barcalo Manufacturing Company. No. 23,838; Dec. 27.
- "Bartholomew Quality Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,545; Feb. 8; v. 283; p. 361.
- "Bath Salts." (For Preparations for Softening Bath-Water.) Harriet Hubbard Ayer. No. 23,184; Aug. 23; v. 289; p. 796.
- "Bath Salts." (For Preparations for Perfuming and Softening Bath-Water.) Harriet Hubbard Ayer. No. 23,340; Sept. 6; v. 290; p. 223.
- "Baume Analgesique Bengue." (For a Medicinal Preparation for Rheumatism, Gout, Neuralgia.) T. Seltzer. No. 22,842; Mar. 29; v. 284; p. 956.
- "Be-ar-o-la." (For a Non-Alcoholic Beverage Sold as a Soft Drink and Containing Sugar and Chocolate, Flavoring.) Choc-O-La Co. No. 23,661; Nov. 22.
- "Beaver." (For Cartons Containing Jar-Rubbers.) United States Rubber Company. No. 23,244; Aug. 23; v. 289; p. 797.
- "Beds and Springs—Fit for Kings." (For Beds and Springs.) Blue Seal Bed Spring Co., The. No. 23,585; Nov. 1.
- "Beech Nut Cigar." (For Beach Nut Cigars.) Fritsch & Son. No. 23,847; Dec. 27.
- "Beich Chocolate Milk Nougat." (For Candy.) P. F. Beich Company. No. 23,055; July 5; v. 288; p. 201.
- "Beleena." (For Cigars.) A. C. Henschel & Co. No. 23,030; June 28; v. 287; p. 783.



- "Belle Meade Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,086; July 5; v. 288; p. 201.
- "Bentz Knit Wear Ribstitch." (For Knit Wear.) Pacific Knitting Mills. No. 22,711; Mar. 15; v. 284; p. 588.
- "Berg's Best." (For Malt Extracts.) Henning Wennersten Incorporated. No. 23,361; Sept. 6; v. 290; p. 223.
- "Best Quality Sweet P's." (For Dried Peas.) Willer & Riley (1910) Ltd. No. 22,882; May 3; v. 286; p. 197.
- "Bestick." (For Stick-Candy.) Union Candy Co. Nos. 22,519-20; Feb. 1; v. 283; p. 179.
- "Bestyette." (For Waterproof Outer Garments.) New York Mackintosh Clothing Co. No. 22,439; Jan. 25; v. 282; p. 739.
- "Be-Ta." (For Food Beverages.) I. Davis. No. 23,843; Dec. 27.
- "Better Blocks." (For Candy.) The Gordon Chocolate Company. No. 23,129; July 26; v. 288; p. 827.
- "Big Baby." (For Chocolate-Cream Roll.) Candy Products Corporation. No. 22,534; Feb. 8; v. 283; p. 361.
- "Big Lick." (For Hard Candy on Sticks.) Roanoke Candy Company, Inc. No. 23,168; Aug. 9; v. 289; p. 409.
- "Big Sam." (For Overalls and Work-Shirts.) Standard Overall Company. No. 23,502; Oct. 18.
- "Billet Deaux." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,683; Nov. 22.
- "Billy Baxter." (For Bottles or Packages Containing Ginger-Ale.) Red Raven Corporation. No. 23,235; Aug. 23; v. 289; p. 797.
- "Bitter Sweets." (For Boxes Containing Bitter-Sweets.) Milwaukee Paper Box Company. No. 22,405; Jan. 18; v. 282; p. 563.
- "Bitter Sweets." (For Boxes Containing Bitter-Sweets.) Milwaukee Paper Box Company. No. 22,484; Feb. 1; v. 283; p. 178.
- "Black and White Hoof-Rot Remedy." (For Hoof-Rot Remedy, Fly-Repellent, and Healing-Oil for External Use on Cattle and Sheep.) A. A. Brockett. No. 23,619; Nov. 8.
- "Bleher Concentrated Liniment." (For a Liniment Known as Bleher Concentrated Liniment.) Bleher-Marmion Manufacturing Co. No. 22,890; May 17; v. 286; p. 644.
- "Blommer's The Cream of Creams." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,644; Mar. 8; v. 284; p. 375.
- "Blom's Home Made Fear-Egg Mayonnaise." (For Mayonnaise.) E. Blom. No. 23,342; Sept. 6; v. 290; p. 223.
- "Blue Bird." (For Bread.) Sanlwx Paper Co. No. 22,504; Feb. 1; v. 283; p. 179.
- "Blue Bird Malt Extract." (For Cans Containing Malt Extract.) H. D. Sterrick. No. 22,591; Feb. 15; v. 283; p. 549.
- "Blue Grass Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,663; Mar. 8; v. 284; p. 376.
- "Blue Grass Evaporated Milk." (For Containers for Condensed Milk.) Kent Storage Company. No. 23,550; Oct. 25.
- "Blue Raven Malt Extract." (For Cans Containing Malt Extract.) H. D. Sterrick. No. 22,987; May 31; v. 286; p. 1058.
- "Blue Ribbon." (For Wax-Paper Wrappers Containing Bread.) Menasha Printing and Carton Company. No. 22,435; Jan. 25; v. 282; p. 739.
- "Blue Ribbon Beverage Combination All In One." (For Malt, Hops, and Sugar in Cans.) H. D. Sterrick. No. 22,846; Mar. 29; v. 284; p. 956.
- "Bluebonnet Chocolates." (For Chocolates.) J. H. Riegler. No. 22,442; Jan. 25; v. 282; p. 739.
- "Bohannan." (For Locks.) Wilson Bohannan, Inc. No. 23,273; Aug. 30; v. 289; p. 1019.
- "Bo-He-Me Malt Extract." (For Cans Containing Malt Extract.) H. D. Sterrick. No. 22,592; Feb. 15; v. 283; p. 549.
- "Bon Santé Baume, a Home Treatment for Hemorrhoids." (For Boxes Containing a Balm for Hemorrhoids.) Bon Santé Company. No. 23,057; July 5; v. 288; p. 201.
- "Bon Santé Baume (Good Health Balm)." (For Boxes Containing Medicine for Stomach Trouble.) Bon Santé Company. No. 23,122; July 26; v. 288; p. 827.
- "Bon Santé Baume Good Health Balm, a Home Treatment for Diseases of Women." (For Boxes Containing a Medicine for Diseases of Women.) Bon Santé Company. No. 23,061; July 5; v. 288; p. 201.
- "Bon Santé Glycerine Tonic." (For a General Systematic Tonic.) Bon Santé Company. No. 23,058; July 5; v. 288; p. 201.
- "Bon Santé Laxative." (For Boxes Containing a Laxative Medicine.) Bon Santé Company. No. 23,059; July 5; v. 288; p. 201.
- "Bon Santé Nerve Tonic Tablets." (For Nerve-Tonic Tablets for Tired Nerves.) Bon Santé Company. No. 23,060; July 5; v. 288; p. 201.
- "Bon Santé Ointment." (For Boxes Containing Ointment.) Bon Santé Company. No. 23,121; July 26; v. 280; p. 827.
- "Bon-Ton." (For Hair-Nets or Containers for Hair-Nets.) D. Tietelbaum. No. 22,889; May 10; v. 286; p. 412.
- "Bon Voyage." (For Silk Piece Goods.) B. Hart & Brother. No. 22,604; Mar. 1; v. 284; p. 180.
- "Bonnie Belle." (For Hosiery.) Berks Knitting Company. No. 23,341; Sept. 6; v. 290; p. 223.
- "Bonnie Scotch Toffee." (For Scotch Toffee.) Imperial Candy Co. No. 23,668; Nov. 22.
- "Bottle Decoration." (For Lime Cola.) Lime Cola Company. No. 23,717; Nov. 29.
- "Boulevard." (For Shoe-Trimnings and Top-Facing.) Woodward & Cohey, Inc. No. 23,111; July 5; v. 288; p. 202.
- "Bowey's." (For Flavoring Extracts, Sugar Color, Crushed Fruits, and Fruit-Stocks.) Horine & Bowey Company. No. 22,739; Mar. 22; v. 284; p. 753.
- "Boysform Brassiere." (For Cartons or Boxes Containing Brassieres.) Boysform Brassiere Co. No. 23,190; Aug. 23; v. 289; p. 796.
- "Brach's Chocolates Assorted." (For Boxes and Containers Containing Candy.) E. J. Brach and Sons. No. 23,191; Aug. 23; v. 289; p. 796.
- "Brach's Chocolate Covered Cherries in Cream." (For Candy.) E. J. Brach and Sons. No. 23,192; Aug. 23; v. 289; p. 796.
- "Brach's Chocolates Six Favorite Selections." (For Candy.) E. G. Brach & Sons. No. 23,275; Aug. 30; v. 289; p. 1019.
- "Brach's Fruits and Nuts in Cream Chocolate Covered." (For Candy.) E. G. Brach & Sons. No. 23,274; Aug. 30; v. 289; p. 1019.
- "Brag Bolted Meal." (For Cornmeal.) Dahnke-Walker Milling Co. No. 22,859; May 3; v. 286; p. 197.
- "Brag Self-Rising Flour." (For Wheat-Flour.) Dahnke-Walker Milling Co. No. 22,799; Mar. 29; v. 284; p. 955.
- "Brawley Beauty Brand." (For Crates and Boxes Containing Grapefruit.) E. Steiner. No. 23,859; Dec. 27.
- "Breakfast Brownies Chocolate." (For Packages Containing Breakfast Food.) Breakfast Brownies Company. No. 22,798; Mar. 29; v. 284; p. 955.
- "Breakfast Joy." (For Coffee.) E. F. Brondi. No. 22,532; Feb. 8; v. 283; p. 361.
- "Brer Fox." (For Corn-Syrup and Refiner's Syrup.) Penick & Ford, Ltd., Inc. No. 23,490; Oct. 18.
- "Brer Rabbit Kisses." (For Candy Wrappers, Boxes, and Containers as Used in Marketing the Candy Sold by This Company.) Brer Rabbit Candy Company. No. 23,659; Nov. 22.
- "Briarcliff Milk Chocolates." (For Candies.) Loft, Inc. No. 23,740; Dec. 13.
- "Briganti's Great Blood Purifier." (For a Tonic for the Blood.) C. Briganti. No. 23,523; Oct. 25.
- "Bright Star." (For Dry-Cell Batteries.) Bright Star Battery Co. No. 23,415; Sept. 13; v. 290; p. 431.
- "Brilliant Hard Mixture." (For Candy.) E. G. Brach & Sons. No. 23,276; Aug. 30; v. 289; p. 1019.
- "Brioline for Dressing the Hair." (For Liquid Hair-Dressers.) Imperial Perfume Co. No. 23,736; Dec. 13.
- "Broad Climax Egg Noodles." (For Noodles.) Pfaffmann Egg Noodle Co. No. 23,755; Dec. 13.
- "Broad Star Noodles." (For Noodles.) Pfaffmann Egg Noodle Co. No. 23,756; Dec. 13.
- "Bromm's Old Virginia." (For Fruit Cake.) The L. Bromm Baking Co. No. 23,446; Oct. 18.
- "Bromo-Aspirin." (For Pharmaceutical Preparations.) J. B. McManes. No. 23,007; June 14; v. 287; p. 403.
- "Brooklyn Brand Flour Sulphur." (For Flour Sulphur.) Battelle & Renwick. No. 22,794; Mar. 29; v. 284; p. 955.
- "Budd Wise Brand." (For Compound for Making Home Beverage.) Arrow Manufacturing Co. No. 22,600; Mar. 1; v. 284; p. 180.
- "Buddy." (For Oranges.) L. K. Small Company. No. 22,444; Jan. 25; v. 282; p. 739.
- "Buddy." (For Lemons.) L. K. Small Company. No. 23,576; Oct. 25.
- "Budweiser Malt Syrup." (For Malt-Syrup.) Budweiser Malt Products Corporation. No. 22,456; Feb. 1; v. 283; p. 178.
- "Bugs Breathe It and Die." (For Insecticide.) Hofstra Manufacturing Company. No. 22,430; Jan. 25; v. 282; p. 739.
- "Bulls Eye." (For Apples.) C. M. Lockwood. No. 22,380; Jan. 11; v. 282; p. 384.
- "Bunch of Pods." (For Dried Peas.) Willer & Riley (1910) Ltd. No. 22,883; May 3; v. 286; p. 197.
- "Burd Quick Seating Piston Rings." (For Piston-Rings.) Burd High Compression Ring Company. No. 23,723; Dec. 13.
- "Burson Fashioned Hose." (For Cartons for Hosiery.) Burson Knitting Company. No. 23,416; Sept. 13; v. 290; p. 431.
- "Buschtee." (For Carbonated Tea Beverage.) Anheuser-Busch, Incorporated. No. 23,259; Aug. 30; v. 289; p. 1019.
- "Bushway's." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,679; Nov. 22.
- "Butter Bread." (For Wax Paper Wrappers Containing Bread.) Menasha Printing and Carton Company. No. 22,476; Feb. 1; v. 283; p. 178.



## Alphabetical list of labels—Continued.

- "Butter Bread Bayer's Bakery." (For Bread.) The Hammersley Manufacturing Co., The. No. 23,622; Nov. 8.
- "Butter-Krust." (For Bread.) W. Freihofer. No. 23,457; Oct. 18.
- "Butter Sweet Corn." (For Confections.) Goelitz Confectionery Co. No. 23,593; Nov. 1.
- "Buttercup." (For Bread.) Saniwax Paper Co. No. 23,047; June 28; v. 287; p. 783.
- "C. P. Co's. Concrete Products Enduring as The Pyramids." (For Specimens of Concrete Bricks, Concrete Blocks, and other Concrete Building Materials.) Concrete Products Co. No. 23,529; Oct. 25.
- "C. R. Emulsified Brand Coconut Oil Hair Shampoo." (For Hair-Shampoo.) M. W. W. Reitz. No. 22,501; Feb. 1; v. 283; p. 179.
- "C. O. D." (For Containers for Hosiery.) Real Silk Hosiery Mills. No. 23,825; Dec. 20.
- "C-O-D." (For Packages Containing Toasted Cereal.) Fred C. Gillet. No. 23,536; Oct. 26.
- "Caballik's Liečivé Vín." (For Medicinal Wine.) Bielek Manufacturing Company. No. 22,720; Mar. 22; v. 284; p. 753.
- "Cadillac." (For Electric Washing-Machines and Wringers.) C. & D. Manufacturing Corporation. No. 23,193; Aug. 23; v. 289; p. 796.
- "Café de Luxe." (For Coffee.) Sibley-Almy Co. Inc. No. 23,574; Oct. 25.
- "Caldo Frances French Bouillon." (For Boxes of Bouillon Tablets.) Du Pont Food Products Company. No. 22,800; Mar. 29; v. 284; p. 955.
- "California Dates." (For Dates.) Tropical Date Company, Inc. No. 23,714; Nov. 22.
- "California Growers." (For Canned Peaches.) California Growers Association, Inc. No. 22,533; Feb. 8; v. 283; p. 361.
- "California Home." (For Pickles.) California Conserving Co. No. 23,588; Nov. 1.
- "California Wine Grape Juice." (For Packages and Bottles of Grape-Juice.) Bebe Company. No. 22,615; Mar. 8; v. 284; p. 375.
- "Caligrapo." (For Concentrated Grape Products in the Form of Grape Syrups.) California Grape Products Co. No. 23,123; July 26; v. 288; p. 827.
- "Camel Brand." (For Toilet-Paper.) Apex Paper Manufacturing Company, Inc. No. 23,787; Dec. 20.
- "Cameo Jewel Box." (For Cartons or other Containers for This Jewel-Box.) Miller Brothers. No. 23,602; Nov. 1.
- "Cami-Phor." (For a Preparation for the Treatment of Headache, Intercostal Neuralgia, Sciatica, Chronic Muscular Rheumatism, Rheumatic Fever, Influenza, or La Grippe, and Painful Neuritis.) Ilaria Brothers. No. 22,626; Mar. 8; v. 284; p. 375.
- "Can Dandy Brand Sifted Early June Peas." (For Cans Containing Early June Peas.) Geo. H. Draper, Jr. No. 23,532; Oct. 25.
- "Canary." (For Fresh Malaga Grapes.) Fowler Grape Growers Association. No. 22,622; Mar. 8; v. 284; p. 375.
- "Candies." (For Boxes Containing Candies.) Milwaukee Paper Box Company. No. 23,565; Oct. 25.
- "Candy Craft Bubble Box." (For Boxes for Candy Craft Bubble Box.) Candy Craft Shops. No. 23,725; Dec. 13.
- "Candy Makers' Friend." (For a Flavoring Compound.) B. Heller & Co. No. 23,205; Aug. 23; v. 289; p. 796.
- "Canyon." (For Toilet-Paper.) C. R. White. No. 23,784; Dec. 13.
- "Carnation." (For Bread.) Saniwax Paper Co. No. 23,048; June 28; v. 287; p. 783.
- "Carnation." (For Cantaloupes.) Wapato Melon Growers Association. No. 22,523; Feb. 1; v. 283; p. 179.
- "Carpenter's." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,035; June 28; v. 287; p. 783.
- "Castorment." (For a Preparation of Castor-Oil and Peppermint.) C. D. Smith Drug Company. No. 22,560; Feb. 8; v. 283; p. 361.
- "Catalina Brand." (For Canned Tuna Fish.) International Packing Corporation. No. 23,472; Oct. 18.
- "Cellosilk." (For Surgical Dressings.) Marshalltown Laboratories. No. 22,698; Mar. 15; v. 284; p. 588.
- "Celtic Ginger Ale." (For Ginger-Ale.) J. J. Reardon. No. 22,411; Jan. 11; v. 282; p. 563.
- "Cereal Malt Syrup." (For Barrels, Containers, or Packages for Containing the Syrup.) Cereal Products Refining Company. No. 22,573; Feb. 15; v. 283; p. 549.
- "Certified Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,082; July 5; v. 288; p. 201.
- "Champagne Velvet Root Beer." (For Root-Beer.) Terre Haute Brewing Company. No. 22,515; Feb. 1; v. 283; p. 179.
- "Charlotte Cap Net." (For Hair-Nets.) Gibbs & Company. No. 22,691; Mar. 15; v. 284; p. 588.
- "Charlotte Fringe Hair Nets." (For Hair-Nets.) Gibbs & Company. No. 22,689; Mar. 15; v. 284; p. 588.
- "Charlotte Fringe Net." (For Hair-Nets.) Gibbs & Co. Nos. 23,357-3; Sept. 6; v. 290; p. 223.
- "Charm O Net." (For Hair-Nets.) L. Stein. No. 23,435; Sept. 13; v. 290; p. 431.
- "Checker Insecticide." (For Garden-Insecticides.) Oshkosh Seed Company. No. 23,145; July 26; v. 288; p. 827.
- "Chéri Kisses (Dearie)." (For Candy Kisses.) Chéri Inc. No. 23,447; Oct. 18.
- "Cherries Chocolate Covered." (For Boxes Containing Chocolate-Covered Cherries.) Milwaukee Paper Box Company. No. 22,401; Jan. 18; v. 282; p. 563.
- "Cherries Chocolate Covered." (For Boxes Containing Chocolate-Covered Cherries.) Milwaukee Paper Box Company. No. 22,480; Feb. 1; v. 283; p. 178.
- "Cherrisweets." (For Boxes Containing Cherries in Candy.) Milwaukee Paper Box Company. No. 23,687; Nov. 22.
- "Chic." (For Calf-Leather.) Barnet Leather Co. Inc. No. 23,657; Nov. 22.
- "Children's Grey Sleeping Garments." (For Sleeping-Garments.) E-Z Waist Company. No. 23,069; July 5; v. 288; p. 201.
- "Choc'-O-La." (For Non-Alcoholic Beverage.) Choc-O-La Co. No. 23,114; July 12; v. 288; p. 430.
- "Chocolate Cherries." (For Cartons Containing Chocolate Cherries.) P. Messing. No. 23,427; Sept. 13; v. 290; p. 431.
- "Chocolate Coated Cherries." (For Boxes Containing Chocolate-Coated Cherries.) Milwaukee Paper Box Company. No. 22,482; Feb. 1; v. 283; p. 178.
- "Chocolate Covered Cherries." (For Boxes Containing Chocolate-Covered Cherries.) Milwaukee Paper Box Company. No. 22,582; Feb. 15; v. 283; p. 549.
- "Chocolate Coated Dates." (For Boxes Containing Chocolate-Coated Dates.) Milwaukee Paper Box Company. No. 23,090; July 5; v. 288; p. 202.
- "Chocolate Covered Fruits." (For Boxes Containing Chocolate-Covered Fruits.) Milwaukee Paper Box Company. No. 22,395; Jan. 18; v. 282; p. 563.
- "Chocolate Covered Nougat." (For Boxes Containing Chocolate-Covered-Nougat.) Milwaukee Paper Box Company. No. 22,397; Jan. 18; v. 282; p. 563.
- "Chocolate Covered Nuts." (For Boxes Containing Chocolate-Covered Nuts.) Milwaukee Paper Box Company. No. 22,404; Jan. 18; v. 282; p. 563.
- "Chocolate Covered Nuts and Fruits." (For Candies.) Norris, Inc. No. 22,708; Mar. 15; v. 284; p. 588.
- "Chocolate Creams." (For Boxes Containing Chocolate Creams.) Milwaukee Paper Box Company. No. 22,481; Feb. 1; v. 283; p. 178.
- "Chocolate Milk Sugar Only." (For Candy.) The Gordon Chocolate Company. No. 23,128; July 26; v. 288; p. 827.
- "Chocolate Sirons." (For Candies.) Norris, Inc. No. 22,706; Mar. 15; v. 284; p. 588.
- "Chocolates and Bon Bons." (For Chocolates and Bonbons.) Norris, Inc. No. 22,704; Mar. 22; v. 284; p. 754.
- "Chocolates Chewy Centers." (For Boxes Containing Chocolates.) Milwaukee Paper Box Company. No. 22,400; Jan. 18; v. 282; p. 563.
- "Chocolates in Cups." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,584; Feb. 15; v. 283; p. 549.
- "Chi-Co-Na." (For Hair-Tonic for Barbers' Use.) B. B. Smith. No. 22,672; Mar. 8; v. 284; p. 376.
- "Christopher's Brick Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,478; Feb. 1; v. 283; p. 178.
- "Circe Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,566; Oct. 25.
- "Clayton Quality." (For Wrapping-Paper.) Sheridan-Clayton Paper Co. No. 22,843; Mar. 29; v. 284; p. 956.
- "Cleanall." (For Cleaning Compounds.) Cleanall Chemical Company. No. 23,279; Aug. 30; v. 289; p. 1019.
- "Cleartrac." (For Pharmaceutical Preparation for Treatment of Constipation.) Raabe & Bowman. No. 22,766; Mar. 22; v. 284; p. 754.
- "Clover Blossom." (For Cheese.) G. A. Stallman. No. 23,501; Oct. 18.
- "Clover Dew." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,680; Nov. 22.
- "Clover Leaf." (For Bread.) Saniwax Paper Co. No. 22,589; Feb. 15; v. 283; p. 549.
- "Clover Leaf Bakery." (For Bread.) A. S. Beville. No. 23,793; Dec. 20.
- "Cloverfield." (For Butter.) H. P. Matthews. No. 23,303; Aug. 30; v. 289; p. 1020.
- "Club 3-in-1." (For Pure Barley-Malt, Hops, and Maltose-Sugar in Cans.) H. D. Sterrick. No. 22,847; Mar. 29; v. 284; p. 956.
- "Coal Dust Twins." (For Puzzles.) C. Carroll. No. 23,162; Aug. 9; v. 289; p. 409.
- "Coast to Coast." (For Toilet-Paper.) C. R. White. No. 23,785; Dec. 13.
- "Coco Mechanic Soap." (For Soap.) The Coco Soap Company. No. 22,378; Jan. 11; v. 282; p. 384.
- "Coeur de Violette." (For Cerate.) Harriet Hubbard Ayer. No. 23,159; Aug. 9; v. 289; p. 409.
- "Coeur Du Roi." (For Cigars.) G. S. Mahn. No. 22,805; Mar. 29; v. 284; p. 955.



- "Cold-Kist." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,561; Oct. 25.
- "Cold-Storine." (For Cartons Containing Cold-Storine, Preparation for Keeping Meat Products.) B. Heller & Co. No. 23,002; June 14; v. 287; p. 403.
- "Colonial." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) Fort Howard Paper Company. No. 22,956; May 31; v. 286; p. 1057.
- "Colonial Cake." (For Cake.) The Colonial Biscuit Company. Nos. 23,527-8; Oct. 25.
- "Colonial Maid." (For Salt-Rising Bread.) J. L. Skelton. No. 22,443; Jan. 25; v. 282; p. 739.
- "Columbia Bell Ringer." (For Electric Batteries.) National Carbon Company, Inc. No. 23,228; Aug. 23; v. 289; p. 797.
- "Columbia Exclusive Artist." (For Sound-Records of the Columbia Graphophone Company.) Columbia Graphophone Company. Nos. 23,194-5; Aug. 23; v. 289; p. 796.
- "Columbia Exclusive Artist." (For Sound Records of the Columbia Graphophone Company.) Columbia Graphophone Company. No. 23,417; Sept. 13; v. 290; p. 431.
- "Columbine Grinding Compound." (For Cans Containing Grinding Compound.) C. H. Cole. No. 22,997; June 14; v. 287; p. 403.
- "Compression." (For Inner Tubes.) U. S. Compression Inner Tube Co. No. 22,522; Feb. 1; v. 283; p. 179.
- "Concentrated Sunripe Lemon Juice." (For Containers of Lemon-Juice or Wrappers Thereof.) W. G. Clark. No. 22,952; May 31; v. 286; p. 1057.
- "Concentrated Sunripe Orange Juice." (For Containers of Orange-Juice or Wrappers Thereof.) W. G. Clark. No. 22,953; May 31; v. 286; p. 1057.
- "Concrete." (For Hosiery.) L. B. Schwab. No. 23,238; Aug. 23; v. 289; p. 797.
- "Confections." (For Boxes Containing Candy.) Milwaukee Paper Box Company. No. 22,754; Mar. 22; v. 284; p. 754.
- "Cordial Cherries." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,484; Oct. 18.
- "Cormond Water." (For Washing and Cleaning Preparation.) A. E. Blenner & Co. No. 22,994; June 14; v. 287; p. 403.
- "Cornwell's Matinee Mints." (For Packages of Candy—Namely, Mints.) G. G. Cornwell & Son. No. 22,726; Mar. 22; v. 284; p. 753.
- "Cornwell's Sunday Paper Nougats." (For Packages of Candy—Namely, Nougats.) G. G. Cornwell & Son. No. 22,725; Mar. 22; v. 284; p. 753.
- "Couverlain." (For Guaranteed All-Wool Blankets.) R. H. Macy & Co. Inc. No. 23,808; Dec. 20.
- "Craftsman Chocolates." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 22,546; Feb. 8; v. 283; p. 361.
- "Crane." (For Overalls.) C. E. Hymson. No. 23,296; Aug. 30; v. 289; p. 1020.
- "Cream City Brand." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,039; June 28; v. 287; p. 783.
- "Cream of the Forest." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) Fort Howard Paper Company. No. 23,000; June 14; v. 287; p. 403.
- "Cream-On." (For Powdered Milk.) International Dry Milk Co. No. 23,738; Dec. 13.
- "Creamery Butter." (For Cans Containing Butter.) Menasha Printing and Carton Company. No. 23,677; Nov. 22.
- "Crème Tokalon." (For Receptacles and Packages Containing Toilet Creams.) International Consolidated Chemical Corporation Inc. No. 23,471; Oct. 18.
- "Crescent Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,433; Jan. 25; v. 282; p. 739.
- "Crowell's Wicco." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,745; Dec. 13.
- "Crown Malt Extract." (For Cans Containing Malt Extract.) The Crown Brewing Company. No. 23,449; Oct. 18.
- "Cunningham's Country Club Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,382; Jan. 11; v. 282; p. 384.
- "Cup and Saucer." (For Coffee.) Johnson-Earl Meyers Co. No. 23,739; Dec. 13.
- "Cupid's Haunt." (For Articles of Women's Apparel, Ladies' Waists or Blouses, Underwear, Hosiery, Neckwear, Sweaters, Corset, Gloves, and Dresses.) E. M. Evans. No. 23,353; Sept. 6; v. 290; p. 223.
- "Cural." (For Soap.) De Hoyos Bros. No. 22,860; May 3; v. 286; p. 197.
- "Curtis St. Louis." (For Advertising Purposes for Machinery and Equipments.) Curtis & Co. Mfg. Co. No. 23,531; Oct. 25.
- "Cuticle Remover." (For Preparation for Removing Surplus Cuticle.) Harriet Hubbard Ayer. No. 23,161; Aug. 9; v. 289; p. 409.
- "Cycol." (For Lubricants.) Associated Oil Company. No. 22,453; Feb. 1; v. 283; p. 178.
- "D. B. Hickey's Healing Liquid." (For Containers for a Remedy for Cuts and Sores of All Kinds.) D. B. Hickey. No. 23,539; Oct. 25.
- "D & C Ready Cake." (For Prepared Cake-Flour.) D & C Co. No. 22,458; Feb. 1; v. 283; p. 178.
- "Dainty Bread." (For Waxed-Paper Bread-Wrappers Containing Bread.) Menasha Printing & Carton Company. No. 23,389; Sept. 6; v. 290; p. 224.
- "Dairymaid Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,647; Mar. 8; v. 284; p. 376.
- "Dairy Maid Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,481; Oct. 18.
- "Dairymen's League Evaporated Milk." (For Evaporated Milk.) Dairymen's League Co-Operative Association, Inc. No. 23,797; Dec. 20.
- "Dairymen's League Butter." (For Butter.) Dairymen's League Co-Operative Association. No. 23,798; Dec. 20.
- "Dairymen's League Sweetened Condensed Milk." (For Condensed Milk.) Dairymen's League Co-Operative Association, Inc. No. 23,799; Dec. 20.
- "Daisy Bloom." (For Butter.) John Pochiman & Sons. No. 22,839; Mar. 29; v. 284; p. 956.
- "Danson Plum Chocolates." (For Boxes Containing Danson Plum Chocolates.) Milwaukee Paper Box Company. No. 22,398; Jan. 18; v. 282; p. 563.
- "Daniel Green Comfy Slippers." (For Boxes Containing Slippers.) Daniel Green Felt Shoe Company. No. 22,619; Mar. 8; v. 284; p. 375.
- "Dardanella." (For Candy.) Loose-Wiles Biscuit Company. No. 22,912; May 24; v. 286; p. 860.
- "Dated Coffee." (For Coffee.) R. Y. Bernhart. No. 23,792; Dec. 20.
- "Daylight in Every Drop." (For Paints.) Devoe & Reynolds Co. Inc. No. 22,862; May 3; v. 286; p. 197.
- "De Milo Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,490; Feb. 1; v. 283; p. 179.
- "Dear Customer: Here are Suggestions for the Care of Real Silk Hose." (For Containers for Hosiery.) Real Silk Hosiery Mills. No. 23,823; Dec. 20.
- "Dear Customer: Here are Suggestions for the Care of Real Silk Fashioned Hosiery." (For Containers for Hosiery.) Real Silk Hosiery Mills. No. 23,824; Dec. 20.
- "Defectos Perfectos." (For Cigar-Boxes Containing Cigars.) Ulrich Cigar Co. No. 23,860; Dec. 27.
- "Delcolates." (For Boxes Containing Chocolate Creams, Milk-Chocolates, Nut Centers, and Nougats.) Milwaukee Paper Box Company. No. 23,088; July 5; v. 288; p. 202.
- "Delicious M-B." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,483; Oct. 18.
- "Delicious Shurtleff's Ice-Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,648; Mar. 8; v. 284; p. 376.
- "Delta." (For Toilet-Paper.) C. R. White. No. 23,786; Dec. 13.
- "Delta Battery." (For Dry Batteries.) Delta Electric Company. No. 22,390; Jan. 18; v. 282; p. 563.
- "Deltanut." (For Candy—Namely, Nut-Candy.) A. G. Abraham Company. No. 22,943; May 31; v. 286; p. 1057.
- "Denebrink's Cuban Rose." (For Cigars.) B. T. Denebrink. No. 22,955; May 31; v. 286; p. 1057.
- "Dentolene." (For a Preparation for the Treatment of Pyorrhea Alveolaris, Spongy, Bleeding, or Receding Gums, and for an Oral Prophylactic or Mouth-Wash.) Haria Bros. No. 23,469; Oct. 18.
- "Deodorine." (For Receptacles Containing Deodorine.) B. Heller & Co. No. 23,134; July 26; v. 288; p. 827.
- "Deodorizer." (For a Preparation for Destroying the Odor of Perspiration.) Harriet Hubbard Ayer. No. 23,271; Aug. 30; v. 289; p. 1019.
- "Depilatory." (For a Preparation for Removing Hair.) Harriet Hubbard Ayer. No. 23,187; Aug. 23; v. 289; p. 796.
- "Depilatory." (For a Preparation for Removing Hair.) Harriet Hubbard Ayer. No. 23,262; Aug. 30; v. 289; p. 1019.
- "Depilis." (For Depilatory Pharmaceutical Preparations.) M. H. Pharmacal Co. No. 22,837; Mar. 29; v. 284; p. 956.
- "Dexter's Mother's Bread." (For Bread.) Dexter Baking Company. Nos. 22,460-1; Feb. 1; v. 283; p. 178.
- "Dextro Malto No. 2." (For Mead's Dextri-Maltose.) Mead Johnson & Co. No. 23,549; Oct. 25.
- "Diges-Aids." (For Bottles Containing a Medicine for Indigestion.) M. L. Emerick. No. 22,620; Mar. 8; v. 284; p. 375.
- "Dill's Ez-A-Cold." (For a Medicinal Preparation for Aid in the Treatment of Colds, Croup, Pneumonia Symptoms, Inflammation and Congestion of the Air-Passages, Burns, Bruises, Insect-Stings, Bronchitis, Neuralgia, Sprains, Tonsillitis, and Whooping-Cough.) Dill Company. No. 22,998; June 14; v. 287; p. 403.
- "Direct Manufacturer Feeder." (For Animal and Poultry Feed.) Thomas-Boyce Direct Feed Company. No. 23,505; Oct. 18.
- "Dish Kleen." (For Containers Containing Cleansing Powder Preparation.) Lavo Company of America. No. 22,870; May 3; v. 286; p. 197.
- "Dodge." (For Canned Peaches.) Dodge, Sweeney & Co. No. 23,067; July 5; v. 288; p. 201.



*Alphabetical list of labels—Continued.*

- "Dodge." (For Canned Peas.) Dodge, Sweeney & Co. No. 23,068; July 5; v. 288; p. 201.
- "Dolinger's." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,744; Dec. 13.
- "Dolores." (For Canned Sardines.) R. E. Cotter. No. 22,457; Feb. 1; v. 288; p. 178.
- "Don Juan." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,685; Nov. 22.
- "Don Quixote Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,702; Mar. 15; v. 284; p. 588.
- "Don't Fret and Bake Serve Grennan's Cake Every Bite a Delight." (For Cake.) Grennan Cake Corporation. No. 22,807; Mar. 29; v. 284; p. 955.
- "Double Century Needle." (For Needles.) Double Century Needle Manufacturing Corp. No. 22,425; Jan. 25; v. 282; p. 739.
- "Double Life." (For Safety-Razors and Safety-Razor Blades.) Gem Safety Razor Corporation. No. 23,460; Oct. 18.
- "Dr. Dufner's." (For Mouth-Antiseptic.) J. J. Dufner. No. 22,999; June 14; v. 287; p. 403.
- "Dr. Louis Valdez's Famous Remedies, French Discovery." (For Eight-Ounce Bottle Containing a Tonic for the Cure of Dyspepsia, Indigestion, Biliousness, Malaria, Boils, Liver or Kidney Troubles, Constipation, Rheumatism, Eczema, and All Blood Disorders.) L. Valdez. No. 23,861; Dec. 27.
- "Dr. Morrison's Mouth Cleanser." (For a Preparation for Cleansing the Mouth and Teeth.) J. P. Morrison. No. 23,567; Oct. 25.
- "Dr. Price's Rolled Oats." (For Packages Containing Cereal Rolled Oats.) Price Food Products Corporation. No. 23,493; Oct. 18.
- "Dr. Root's Genuine Root Beer, Nature's Wonder Drink." (For Root-Beer.) National Brewing Company. No. 22,874; May 3; v. 286; p. 197.
- "Dr. Tinker's Formula Gold for Cast Crown and Bridge Work." (For Packages Containing Dental Gold.) E. T. Tinker. No. 23,049; June 28; v. 287; p. 783.
- "Dreadnought." (For Work-Shirts.) Walton N. Moore Dry Goods Co. No. 23,691; Nov. 22.
- "Dreamy Dawn." (For Candy.) Val. Blatz Jr. Candy Co. No. 23,721; Dec. 13.
- "Drill Lujos." (For Piece Goods.) Everett, Heaney & Company. No. 22,802; Mar. 29; v. 284; p. 955.
- "Dubl-Rub Motor Car Polish and Cleaner." (For Automobiles.) J. W. MacCann. No. 23,477; Oct. 18.
- "Dutch Chocolate Shop." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,756; Mar. 22; v. 284; p. 754.
- "E Twist." (For Tobacco.) Christian Peper Tobacco Co. No. 23,526; Oct. 25.
- "E-Z Blue." (For Bluing for Laundry or Washing Purposes.) W. E. Martin. No. 23,676; Nov. 22.
- "E-Z Way." (For Container for Soap in Powder Form.) E. J. Watts. No. 23,413; Sept. 6; v. 290; p. 225.
- "E-Z Collar Holder." (For Collar-Holders.) Freeman Daughaday Co. No. 22,688; Mar. 15; v. 284; p. 588.
- "Eatour." (For Bread.) Saniwax Paper Co. No. 22,770; Mar. 22; v. 284; p. 754.
- "Eau de Beauté (Water of Beauty)." (For Face-Astringent and Skin-Tighteners.) Harriett Hubbard Ayer. No. 23,513; Oct. 25.
- "Edgar Chew-Me-Up." (For Chewing-Candy.) E. Strakosch. No. 22,674; Mar. 8; v. 284; p. 376.
- "Egg Planting." (For Packages Containing Egg-Plant.) G. Di Salvo & A. Patera. No. 23,844; Dec. 27.
- "Egg Pufflets." (For Breakfast Food.) C. J. Geisel. No. 23,848; Dec. 27.
- "Egg-Saver." (For a Solution of Sodium Silicate.) Home Products, Inc. No. 23,139; July 26; v. 288; p. 827.
- "Ejecto." (For Mouthpiece-Holders for Cigarette Products.) Ejecto Cigarette Holder Co. No. 23,451; Oct. 18.
- "El Retina." (For Cigars.) Basford Cigar Company. No. 22,388; Jan. 18; v. 282; p. 563.
- "El Rolada." (For Cigars.) Supreme Cigar Company. No. 22,595; Feb. 15; v. 283; p. 549.
- "Elder Tree Extract." (For a Medicinal Preparation of Oil Extracted from the Elder-Tree.) M. Caruso. No. 22,858; May 3; v. 286; p. 197.
- "Elf Brand." (For Malt Syrup.) La Crosse Refining Company. No. 22,541; Feb. 8; v. 283 p. 361.
- "Empire Baking Powder." (For Baking-Powder.) Empire Food Products Company. No. 23,455; Oct. 18.
- "Empire Choc-O-Lette." (For a Powder Containing Cocoa, Sugar, and Skimmed Milk for Making a Beverage.) Empire Foods Products Company. No. 23,452; Oct. 18.
- "Empire Powdered Milk." (For Powdered Skimmed Milk.) Empire Food Products Company. No. 23,453; Oct. 18.
- "Ensemble." (For Chocolates.) H. Jevne Co. No. 23,630; Nov. 8.
- "Enterprise." (For Honey.) A. J. Schultz. No. 23,647; Nov. 8.
- "Equator." (For Toilet-Paper.) C. R. White. No. 23,783; Dec. 13.
- "Equity." (For Apples.) Equity Growers & Shippers Association. No. 23,663; Nov. 22.
- "Eureka." (For Metal-Polish.) Eureka Metal Polish Co. (Inc.) No. 22,864; May 3; v. 286; p. 197.
- "Evangelical Brothers Newcail." (For Handkerchiefs.) L. Petraccone. No. 22,765; Mar. 22; v. 284; p. 754.
- "Evangeline Sanitary Soap." (For Boxes Containing a Toilet Soap.) Sea Gull Specialty Co. No. 22,775; Mar. 22; v. 284; p. 754.
- "Evansville Pure Milk Co's Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,655; Mar. 8; v. 284; p. 376.
- "Ever-Ready." (For Cocoa.) Stollwerck Chocolate Company. No. 22,673; Mar. 8; v. 284; p. 376.
- "Eveready Bell Ringer." (For Electric Batteries.) National Carbon Company, Inc. No. 23,226; Aug. 23; v. 289; p. 797.
- "Eveready Ford Ignition Battery." (For Electric Batteries.) National Carbon Company. No. 23,312; Aug. 30; v. 289; p. 1020.
- "Eveready Ford Lighting Battery." (For Electric Batteries.) National Carbon Company. No. 23,311; Aug. 30; v. 289; p. 1020.
- "Eveready Gas Engine Battery." (For Electric Batteries.) National Carbon Company. No. 23,313; Aug. 30; v. 289; p. 1020.
- "Eveready Lighting and Ignition Battery." (For Electric Batteries.) National Carbon Company. No. 23,316; Aug. 30; v. 289; p. 1020.
- "Eveready Marine Lighting and Ignition Battery." (For Electric Batteries.) National Carbon Company, Inc. No. 23,225; Aug. 23; v. 289; p. 797.
- "Eveready Motor Boat Battery." (For Electric Batteries.) National Carbon Company, Inc. No. 23,227; Aug. 23; v. 289; p. 797.
- "Eveready Portable Lighting Battery." (For Electric Batteries.) National Carbon Company. No. 23,314; Aug. 30; v. 289; p. 1020.
- "Eveready Tractor Battery." (For Electric Batteries.) National Carbon Company. No. 23,315; Aug. 30; v. 289; p. 1020.
- "Evergold Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,041; June 28; v. 287; p. 783.
- "Every Won a Dainty." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 22,547; Feb. 8; v. 283; p. 361.
- "Everybody's." (For Canned Apricots.) Richmond Chase Company. No. 22,924; May 24; v. 286; p. 860.
- "Extra Select Diamond Brand." (For Boxes of Grapefruit.) Bourk-Donaldson-Taylor Fruit Company. No. 23,343; Sept. 6; v. 290; p. 223.
- "Extra Select Diamond Brand." (For Boxes of Oranges.) The Bourk-Donaldson-Taylor Fruit Company. No. 23,794; Dec. 20.
- "Eye Lash and Brow Grower." (For a Preparation for Stimulating the Growth of the Eye Lashes and Brows.) Harriet Hubbard Ayer. No. 23,181; Aug. 23; v. 289; p. 796.
- "Eyebrow Pencils." (For Preparations for Coloring the Eyebrows.) Harriet Hubbard Ayer. No. 23,183; Aug. 23; v. 289; p. 796.
- "Eze Auto Polish." (For Liquid Auto-Polish.) Eze Products Company. No. 23,418; Sept. 13; v. 290; p. 431.
- "F C L." (For Labels Applied to Containers for a Mange and Dandruff Remedy.) R. D. Furnish. No. 23,355; Sept. 6; v. 290; p. 223.
- "Face Cream." (For Preparations for Beautifying the Skin.) Harriet Hubbard Ayer. No. 23,179; Aug. 23; v. 289; p. 796.
- "Face Powder." (For Face-Powder.) Est. Henry C. Miner. No. 22,801; Mar. 29; v. 284; p. 955.
- "Fadden's Quality Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,143; July 26; v. 288; p. 827.
- "Fairly." (For Bread.) Saniwax Paper Co. No. 22,506; Feb. 1; v. 283; p. 179.
- "Fairlyland Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,700; Mar. 15; v. 284; p. 588.
- "Family-Cup-Board." (For Boxes Containing Candy.) Milwaukee Paper Box Company. No. 23,812; Dec. 20.
- "Fascination Fringe Hair Nets." (For Hair-Nets.) Gibbs & Company. No. 22,692; Mar. 15; v. 284; p. 588.
- "Favorite Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,089; July 5; v. 288; p. 202.
- "Fedeco." (For Containers for Hair-Tonic.) E. D. Robinson. No. 23,826; Dec. 20.
- "Fedeco." (For Containers for Coconut-Oil Shampoo.) E. D. Robinson. No. 23,827; Dec. 20.
- "Fermentive the Supermalt Syrup." (For Malt Syrups and Extracts.) A. Wahl. No. 23,506; Oct. 18.
- "Ferro-China Italia." (For Bottles Containing a Compound Medicinal Preparation.) W. D. Del-Wit. No. 22,861; May 3; v. 286; p. 197.
- "Ferro-China Pontecorvo." (For a Tonic.) L. Pontecorvo. No. 22,554; Feb. 8; v. 283; p. 361.
- "Fin-Twister." (Particularly Useful on Ford Cars.) (For Box-Tops.) Bonney Vise & Tool Works. No. 23,586; Nov. 1.
- "Fine Climax Egg Noodles." (For Noodles.) Pfaffmann Egg Noodle Co. No. 23,754; Dec. 13.



*Alphabetical list of labels—Continued.*

- "Fine Star Noodles." (For Noodles.) Pfaffmann Egg Noodle Co. No. 23,757; Dec. 13.
- "First National Beauty Complexion Wafers." (For Packages Containing Medicine for Treatment of Boils, Pimples, Blackheads, &c., Due to Constipation.) First National Pharmacy. No. 23,800; Dec. 20.
- "First National P. B. P." (For Bottles Containing a Medicine for Restoring Lost Vitality of Men and for Upbuilding the Nervous System.) First National Pharmacy. No. 23,590; Nov. 1.
- "First National Tasteless Solution of Epsom Salt." (For Bottles Containing a Tasteless Solution of Epsom Salt.) First National Pharmacy. No. 23,070; July 5; v. 288; p. 201.
- "First Prize." (For Bread.) Saniwax Paper Co. No. 22,771; Mar. 22; v. 284; p. 754.
- "First-Prize." (For Bread.) H. V. Walters. No. 23,580; Oct. 25.
- "Flannel Vulture Shirt." (For Flannel Shirts.) M. H. Rosen & Co. No. 22,769; Mar. 22; v. 284; p. 754.
- "Flexo Harness." (For Toy Harnesses.) Woodward & Cochey, Inc. No. 23,716; Nov. 22.
- "Flor De Galindo." (For Cigars.) La Linda Diana Cigar Company. No. 23,034; June 28; v. 287; p. 783.
- "Flora Linen." (For Stationery, Tablets, Pound-Paper and Envelops.) B. Hopper. No. 23,206; Aug. 23; v. 289; p. 796.
- "Flower Design." (For Hairpin-Boxes.) The Sterling Pin Company. No. 23,649; Nov. 8.
- "Fluff-O-Light." (For a Wrapper Inclosing Candy.) Hoffman Candy Co. No. 22,908; May 24; v. 286; p. 860.
- "Fluffytulie." (For Malines, Tulles, and Nettings in the Piece.) H. B. Lederer. No. 23,635; Nov. 8.
- "Flunoine." (For Boxes, Bottles, Jars, and Packages Containing Emollient and Healing Medicaments as an Inhalant and a Rubefacient for Relief of Colds and Congestion in the Head, Throat, and Chest.) Fluno Co. No. 23,419; Sept. 13; v. 290; p. 431.
- "Flynn Quality Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,641; Mar. 8; v. 284; p. 375.
- "Fold it up—Take it with you—typewrite anywhere." (For Typewriting-Machines.) Corona Typewriter Company. No. 22,724; Mar. 22; v. 284; p. 753.
- "Fondant." (For Fondant.) S. E. Arnold. No. 22,717; Mar. 22; v. 284; p. 753.
- "Foothill Brand Honey." (For Honey.) J. Ferguson. No. 23,729; Dec. 13.
- "Foresight." (For Boxes Containing Cigars.) Ennals & Company, Inc. No. 22,898; May 24; v. 286; p. 860.
- "Fortune." (For Egg-Noodles.) Fortune Products Company. No. 23,354; Sept. 6; v. 290; p. 223.
- "4 in 1 Malt Extract." (For Cans Containing Malt Extract.) H. D. Sterrick. No. 22,985; May 31; v. 286; p. 1058.
- "Frances Fox Olive Soap For Hair & Skin." (For Soap.) Frances Fox Laboratories, Inc. No. 23,664; Nov. 22.
- "Frap-O." (For Syrup of Wild-Cherry Flavor.) Brecht & Richter Company. No. 23,722; Dec. 13.
- "Freeze-Em." (For Cans and Bottles Containing Freeze-Em, a Preparation for Cleaning Butcher's Utensils.) B. Heller & Co. No. 22,907; May 24; v. 286; p. 860.
- "Freeze-Em Pickle." (For Cartons Containing Freeze-Em Pickle, a Meat-Curing Preparation.) B. Heller & Co. No. 22,902; May 24; v. 286; p. 860.
- "French Kid Plate Marked." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. Hopper. No. 23,546; Oct. 25.
- "French Poplin." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. Hopper. No. 23,542; Oct. 25.
- "Froznpure." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,682; Nov. 22.
- "Fruits and Nuts." (For Boxes Containing Chocolate-Covered Fruits and Nuts.) Milwaukee Paper Box Company. No. 22,753; Mar. 22; v. 284; p. 754.
- "Fruits and Nuts." (For Boxes Containing Chocolate-Covered Fruits and Nuts.) Milwaukee Paper Box Company. No. 23,220; Aug. 23; v. 289; p. 797.
- "Fruits and Nuts in Cream Chocolate Covered." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,585; Feb. 15; v. 283; p. 549.
- "Fussell's Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,142; July 26; v. 288; p. 827.
- "Gainsborough." (For Envelops Containing Hair-Nets.) Western Bottle Manufacturing Company. No. 23,438; Sept. 13; v. 290; p. 431.
- "Gainsborough Genuine Hair Net." (For Hair-Nets.) Western Bottle Manufacturing Company. No. 23,774; Dec. 13.
- "Gal-Lo-Ben." (For an Antiseptic and Astringent Remedy.) C. Bardos, Jr. No. 23,839; Dec. 27.
- "Game of Black Beauty." (For Game.) Stoll & Edwards Co. Inc. No. 23,710; Nov. 22.
- "Game of Mother Goose." (For Game.) Stoll & Edwards Co. Inc. No. 23,709; Nov. 22.
- "Garcia Bouquet." (For Cigars.) A. Fuente & Company. No. 23,620; Nov. 8.
- "Garden Girl Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,872; May 3; v. 286; p. 197.
- "Gardenia Soap." (For Toilet Soap.) Harriet Hubbard Ayer. No. 23,186; Aug. 23; v. 289; p. 796.
- "Gardiner's Ice Cream De Luxe." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,974; May 31; v. 286; p. 1057.
- "Gardiner's 'Turity' Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,975; May 31; v. 286; p. 1057.
- "Gate City Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,037; June 28; v. 287; p. 783.
- "General." (For Candy.) General Candy Co. No. 22,468; Feb. 1; v. 283; p. 178.
- "General Nut." (For Nut-Candies.) General Candy Co. No. 22,624; Mar. 8; v. 284; p. 375.
- "Geyer's Detachable Swinging Wash-Boiler Apron." (For Detachable Swing Washboiler-Apron.) E. Geyer. No. 23,732; Dec. 13.
- "Gillen's Malted Milk Chocolate and Toasted Almonds." (For Candy.) Gillen & Boney. No. 23,199; Aug. 23; v. 289; p. 796.
- "Gilmer Woven Endless Fan Belts." (For Fan-Belts.) L. H. Gilmer Company. No. 23,072; July 5; v. 288; p. 201.
- "Gilmer Woven Endless Fan Belts for Tractors." (For Fan-Belts.) L. H. Gilmer Company. No. 23,075; July 5; v. 288; p. 201.
- "Gilmer Woven Endless Fan Belts for Trucks." (For Fan-Belts.) L. H. Gilmer Company. No. 23,076; July 5; v. 288; p. 201.
- "Gilmer Woven Endless Ford Fan Belts." (For Fan-Belts.) L. H. Gilmer Company. No. 23,073; July 5; v. 288; p. 201.
- "Gilmer Woven Endless Ford Fan Belts." (For Fan-Belts.) L. H. Gilmer Company. No. 23,074; July 5; v. 288; p. 201.
- "Gingham Girl." (For Candy.) Collins-Hencke Candy Co. No. 23,350; Sept. 6; v. 290; p. 223.
- "Ginsos Electrofied Chlorine." (For an Electrofied Chlorin for Medical, Surgical, and Hospital Purposes.) Ginsos Chemical Company. No. 22,866; May 3; v. 286; p. 197.
- "Ginsos Marshmallow Dental Cream." (For a Dental Cream.) Ginsos Chemical Company. No. 22,804; Mar. 29; v. 284; p. 955.
- "Glamouric Assortment." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,396; Jan. 18; v. 282; p. 563.
- "Glemby Hair Net." (For Hair-Nets.) S. Glemby's Sons Co. No. 23,283; Aug. 30; v. 289; p. 1019.
- "Globe." (For Tomatoes.) W. H. Cauley. No. 22,995; June 14; v. 287; p. 403.
- "Globe 'A-1'." (For Flour.) Globe Grain & Milling Company. No. 22,538; Feb. 8; v. 283; p. 361.
- "Globe A1." (For Baby-Pig Feed.) Globe Grain & Milling Company. No. 23,462; Oct. 18.
- "Goblin." (For Canned Sweet Corn.) Marshall Canning Company. No. 22,381; Jan. 11; v. 282; p. 384.
- "Goff's Atlantic City Salt Water Taffy." (For Salt-Water Taffy.) S. B. Goff & Sons Company. No. 22,867; May 3; v. 286; p. 197.
- "Gold Band." (For Toilet-Paper.) C. R. White. No. 23,782; Dec. 13.
- "Gold Bond." (For Oleomargarin.) Baltimore Butterine Co. No. 22,528; Feb. 8; v. 283; p. 361.
- "Gold Chain." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,085; July 5; v. 288; p. 201.
- "Gold Medal Malt Extract." (For Cans Containing Malt Extract, Hops Extract, and Sugar.) H. D. Sterrick. No. 22,986; May 31; v. 286; p. 1058.
- "Gold Seal." (For Cake.) United States Foll Company. No. 23,245; Aug. 23; v. 289; p. 797.
- "Gold Standard." (For Cotton Piece Goods.) Sanger Bros. Inc. No. 23,572; Oct. 25.
- "Golden Cream." (For Bread.) Waxide Paper Company. No. 22,446; Jan. 25; v. 282; p. 739.
- "Golden Cream." (For Creamery-Butter.) Ottawa Condensing Co. No. 22,917; May 24; v. 286; p. 860.
- "Golden Crown Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,657; Mar. 8; v. 284; p. 376.
- "Golden Crust." (For Bread.) Rose and Weintraub Baking Company. No. 23,498; Oct. 18.
- "Golden Crust Loaf." (For Bread.) California Bakery Company. No. 23,724; Dec. 13.
- "Golden Cup." (For Coffee.) Sibley-Almy Co. Inc. No. 23,575; Oct. 25.
- "Golden Eagle." (For Coffee.) Malone & Hyde, Inc. No. 23,675; Nov. 22.
- "Golden-Hen." (For Boxes, Kegs, and Barrels Containing Golden-Hen, a Diluted Mixture of Certified Colors.) B. Heller & Co. No. 23,467; Oct. 18.
- "Golden Rod." (For Bread.) Saniwax Paper Co. No. 23,237; Aug. 23; v. 289; p. 797.
- "Golden Rod Frozen Custard." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,661; Mar. 8; v. 284; p. 376.
- "Good Luck." (For Bread.) Saniwax Paper Co. No. 22,557; Feb. 8; v. 283; p. 361.



## Alphabetical list of labels—Continued.

- "Good Luck Malt Syrup." (For Containers of a Concentrated Syrup Manufactured from Malt and other Grain.) E. E. Emerson. No. 23,028; June 28; v. 287; p. 783.
- "Good Value." (For Toilet-Paper, Being Applied to the Packing Containing the Same.) May Department Stores Company. No. 23,370; Sept. 6; v. 290; p. 223.
- "Goodform Hair Net." (For Hair-Nets.) United Drug Company. No. 22,521; Feb. 1; v. 283; p. 179.
- "Goodies." (For Candies, Namely Orange Fruit Tablets.) Star Candy Co. No. 22,880; May 3; v. 286; p. 197.
- "Goody-Mints Candy." (For Candy.) G. L. Rassias. No. 23,822; Dec. 20.
- "Gordon Milk and Chocolate Supreme." (For Chocolate Bars.) The Gordon Chocolate Co. No. 23,127; July 26; v. 288; p. 827.
- "Gordons Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,310; Aug. 30; v. 289; p. 1020.
- "Gouber." (For Candy.) Kellogg Sugar Products Company. No. 23,473; Oct. 18; v. 289; p. 1020.
- "Goudy's Chocolate Fruited Gum." (For Chewing-Gum.) Goudy Gum Co. No. 22,806; Mar. 29; v. 284; p. 955.
- "Grada (Gradea)." (For Tile and Porcelain Cleaner.) The Grady Mfg. Co. No. 23,537; Oct. 25.
- "Graham Bread." (For Bread.) Newark Paraffine & Parchment Paper Co. No. 23,317; Aug. 30; v. 289; p. 1020.
- "Grand Aroma." (For Cigars.) Freiberg & Gorman. No. 23,535; Oct. 25.
- "Grandma's Bread." (For Wax-Paper Bread-Wrappers.) Menasha Printing and Carton Company. No. 23,221; Aug. 23; v. 289; p. 797.
- "Grandma's Cake." (For Cake.) Lantz Bros. Baking Co. No. 23,215; Aug. 23; v. 289; p. 797.
- "Grandma's Cake." (For Cake.) Lantz Bros. Baking Co. No. 23,368; Sept. 6; v. 290; p. 223.
- "Grandma's Cake." (For Wrapped Squares of Loaf-Cake.) F. C. Busche. No. 22,722; Mar. 22; v. 284; p. 753.
- "Grandma's Cookies." (For Cookies.) Lanz Bros. Baking Co. No. 22,542; Feb. 8; v. 283; p. 361.
- "Granny White's Remedy." (For a Preparation for Treatment of Catarrhal Conditions of the Vaginal Mucous Membrane, Inflammation, and Leucorrhea.) M. Rathburn. No. 23,011; June 14; v. 287; p. 403.
- "Grape-Blackberillade." (For a Spread of Grape-Blackberry Flavor for Bread, Toast, and Muffins.) Welch Grape Juice Company. No. 22,684; Mar. 8; v. 284; p. 377.
- "Grape Currantlade." (For a Spread of Grape-Currant Flavor for Bread, Toast, and Muffins.) Welch Grape Juice Company. No. 22,685; Mar. 8; v. 284; p. 377.
- "Great Master." (For Cigars.) Tennyson Cigar Company, Inc. No. 22,387; Jan. 11; v. 282; p. 384.
- "Greco." (For Candy-Boxes.) The C. J. Fox Company. No. 23,163; Aug. 9; v. 289; p. 409.
- "Green & Green Cheez-It Crackers." (For Cartons in Which Cheese Crackers are Placed.) The Green and Green Company. No. 23,804; Dec. 20.
- "Green River." (For Soft Drinks.) Schoenhofen Company. No. 23,404; Sept. 6; v. 290; p. 224.
- "Green River Malt Extract." (For Cans Containing Malt Extract.) H. D. Sterrick. No. 22,590; Feb. 15; v. 283; p. 549.
- "Grennan's Golden Fudge." (For Cake.) Grennan Cake Corporation. No. 22,735; Mar. 22; v. 284; p. 753.
- "Grennan's Top Notch Oven Gold Cookies." (For Cookies.) Grennan Cake Corporation. No. 22,808; Mar. 20; v. 284; p. 955.
- "Greysolon." (For Boxes Containing Assorted Chocolates.) Milwaukee Paper Box Company. No. 23,813; Dec. 20.
- "Greysolon." (For Boxes Containing Hand-Rolled Bitter Sweets.) Milwaukee Paper Box Company. No. 23,308; Aug. 30; v. 289; p. 1020.
- "Greysolon." (For Boxes Containing Hard-Center Chocolates.) Milwaukee Paper Box Company. No. 23,219; Aug. 23; v. 289; p. 797.
- "Guaranteed Clothes." (For Men's and Youths' Clothing.) Henry Geiershofer Clothing Company. No. 22,737; Mar. 22; v. 284; p. 753.
- "H-H" Barley and Hop Syrup." (For Syrup Made from Barley and Hops.) F. E. Haggerty and Son. No. 22,540; Feb. 8; v. 283; p. 361.
- "Hagan's Mayonnaise Dressing." (For Mayonnaise Dressing.) E. L. Hagan. No. 22,428; Jan. 25; v. 282; p. 739.
- "Hair-Root-Oil." (For Hair Dressing and Shampoo.) A. J. Krank. No. 23,554; Oct. 25.
- "Hairlife." (For a Hair and Scalp Remedy.) J. B. Kori. No. 22,632; Mar. 8; v. 284; p. 375.
- "Hale's Phenaleze." (For Medicine for Nervous Affections of Women.) E. B. Hale. No. 23,464; Oct. 18.
- "Hand Lotion." (For Lotion for Hands.) Harriet Hubbard Ayer. No. 23,267; Aug. 30; v. 289; p. 1019.
- "Handi-Hanger Broom." (For Brooms and Whisk-Brooms.) Acme Broom Company. No. 23,120; July 26; v. 288; p. 827.
- "Handy Anti-Rattlers Stop That Noise." (For Antirattlers for Motor-Vehicles.) F. G. Withrow. No. 22,448; Jan. 25; v. 282; p. 739.
- "Handy Anti-Rattlers Stop That Noise Big Brake Rod." (For Antirattlers for Motor-Vehicles.) F. G. Withrow. No. 22,450; Jan. 25; v. 282; p. 739.
- "Handy Steering-Arm Shock-Absorbers." (For Antirattlers for Motor-Vehicles.) F. G. Withrow. No. 22,449; Jan. 25; v. 282; p. 739.
- "Handy Throttle & Gas Rod Anti-Rattlers." (For Antirattlers for Motor-Vehicles.) F. G. Withrow. No. 22,451; Jan. 25; v. 282; p. 739.
- "Hannah's Tablets." (For Dyspepsia-Tablets.) P. J. Hannah. No. 23,802; Dec. 20.
- "Happy Days." (For Bread.) Saniwax Paper Co. No. 22,559; Feb. 8; v. 283; p. 361.
- "Happy Home." (For Bread.) Memphis Bread Company. No. 23,374; Sept. 6; v. 290; p. 224.
- "Hard Center Chocolates." (For Boxes Containing Hard-Center Chocolates.) Milwaukee Paper Box Company. No. 22,406; Jan. 18; v. 282; p. 563.
- "Hard Center Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,488; Feb. 1; v. 283; p. 178.
- "Harmless to Humans—Fatal to Bugs." (For Insecticide.) Hofstra Manufacturing Company. No. 22,431; Jan. 25; v. 282; p. 739.
- "Harral's Concentrated Shampoo." (For Shampoo for the Hair.) Harral Soap Co. No. 22,693; Mar. 15; v. 284; p. 588.
- "Harriet Hubbard Ayer." (For Toilet Cream, Toilet Powder, Rouges, Lotions, Enamels, Skin and Tissue Builders, Depilatories, Skin-Astringents, and Many other Toilet Preparations.) Harriet Hubbard Ayer. Nos. 23,518-9; Oct. 25.
- "Harry's Chocolates." (For Packages, Containers, or Boxes for Containing the Confection.) Harry Hoefler Candy Company. No. 23,667; Nov. 22.
- "Harvard Children's Underwear." (For Children's Underwear.) L. L. Marrow. No. 22,474; Feb. 1; v. 283; p. 178.
- "Harvest Queen." (For Bread.) Saniwax Paper Co. No. 23,828; Dec. 20.
- "Hathaway's Win-Sum Bread." (For Hathaway's Bread.) C. F. Hathaway & Sons. No. 22,470; Feb. 1; v. 283; p. 178.
- "Haydon's Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,222; Aug. 23; v. 289; p. 797.
- "Heal-All." (For a Salve.) P. Trautwein. No. 22,417; Jan. 18; v. 282; p. 563.
- "Health Quality Fruit Cake." (For Boxes Containing Fruit Cake.) Milwaukee Paper Box Company. No. 23,689; Nov. 22.
- "Heart's Desire." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,755; Mar. 22; v. 284; p. 754.
- "Heathmade Arrow Brand Butter." (For Butter.) Mott & Wood Co. No. 23,752; Dec. 13.
- "Heck's Root Beer." (For Containers for Root-Beer.) J. M. Eckenrode. No. 22,863; May 3; v. 286; p. 197.
- "Hedrelef." (For Medicine Tablets for Headaches, Neuralgia, Colds, La Grippe, Aches, and Pains.) C. E. Kiesling. No. 23,366; Sept. 6; v. 290; p. 223.
- "Heileman's New Style Lager." (For Cereal Beverages.) G. Heileman Brewing Co. No. 23,130; July 26; v. 288; p. 827.
- "Heirro Nuxado, English Equivalent, (Nuxated Iron.) (For a Tonic.) International Consolidated Chemical Corp. No. 22,741; Mar. 22; v. 284; p. 753.
- "Helen Ware's Complexion Cream." (For Receptacles Containing Complexion-Cream.) Ware Mfg. Co. No. 23,020; June 14; v. 287; p. 403.
- "Helen Ware's Hair Tonic." (For Receptacles Containing Hair-Tonic.) Ware Mfg. Co. No. 23,050; June 28; v. 287; p. 783.
- "Helen's Candi-Lax." (For Fruit Laxative.) Candi-Lax Mfg. Company. No. 23,063; July 5; v. 288; p. 201.
- "Heller's Enamel Cleaner." (For Cans Containing Heller's Enamel-Cleaner.) B. Heller & Co. No. 22,809; Mar. 29; v. 284; p. 955.
- "Heller's Fancy Pastry Baking Powder." (For Receptacles Containing Heller's Fancy Pastry Baking Powder.) B. Heller & Co. No. 23,202; Aug. 23; v. 289; p. 796.
- "Heller's Fancy-Pastry Pudding." (For Paper Cartons Containing Heller's Fancy Pastry Puddings.) B. Heller & Co. No. 22,811; Mar. 29; v. 284; p. 955.
- "Heller's Golden Gloss Shine." (For Containers Holding Heller's Golden Gloss Shine, a Metal-Polish.) B. Heller & Co. No. 23,164; Aug. 9; v. 289; p. 409.
- "Heller's Sanitary Fluid." (For Containers Holding Heller's Sanitary Fluid, a Germicidal and Antiseptic Preparation.) B. Heller & Co. No. 23,079; July 5; v. 288; p. 201.
- "Heller's Silver Shine." (For Cartons Containing Heller's Silver Shine, a Dry Powder Polish.) B. Heller & Co. No. 22,905; May 24; v. 286; p. 860.
- "Heller's Van-Boquet." (For Containers Holding Heller's Van-Boquet, a Flavoring Preparation for Ice-Cream, Confectionery, Candy, and Pastry.) B. Heller & Co. No. 23,293; Aug. 30; v. 829; p. 1020.
- "Helm's Candi-Lax." (For Fruit Laxative.) Candi-Lax Mfg. Company. No. 23,062; July 5; v. 288; p. 201.



*Alphabetical list of labels—Continued.*

- "He-Mi-La." (For Candy—Namely, Bar-Candy.) Heit Miller Lau Co. No. 23,466; Oct. 18.
- "Hershey's Superior Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,306; Aug. 30; v. 289; p. 1020.
- "Hester Price's Sweet Kukumer Rings." (For Containers of Preserved Cucumber Rings.) I. L. Follett. No. 22,803; Mar. 29; v. 284; p. 955.
- "High Feather Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,487; Feb. 1; v. 283; p. 178.
- "High Life." (For Canned Peas.) Inderrieden Canning Co. No. 23,671; Nov. 22.
- "High Test No-Boli Malt Extract." (For Cans Containing Liquid Malt Extract.) High Test Malt Extract Co. No. 23,540; Oct. 25.
- "Hofstra—The National Insecticide." (For Insecticide.) Hofstra Manufacturing Company. No. 22,429; Jan. 25; v. 282; p. 739.
- "Hold-Phast." (For Hair-Nets.) Richmond Sundry Company, Inc. No. 23,497; Oct. 18.
- "Hold-Tight." (For Hair-Nets.) A. Klar. No. 23,597; Nov. 1.
- "Holdzit." (For Elastic Waistbands.) A. L. Vlander. No. 23,332; Aug. 30; v. 289; p. 1020.
- "Hollandyke." (For Candy-Boxes.) C. J. Fox Company. No. 23,730; Dec. 13.
- "Hollis' Diamond Brand Malt Syrup." (For Glass Bottles, Cans, Tins, and any other Receptacles Containing Malt-Syrup.) A. Hollis. No. 23,003; June 14; v. 287; p. 403.
- "Home Like Dinners." (For Lamb Stew.) Garden City Canning Co. No. 22,467; Feb. 1; v. 283; p. 178.
- "Home Maid." (For Cans of Liquid Malt Extract.) Harry Corcoran. No. 23,530; Oct. 25.
- "Home Run." (For Wrappers Inclosing or Containing Cigarettes.) Liggett & Myers Tobacco Company. No. 23,369; Sept. 6; v. 290; p. 223.
- "Honey Krust." (For Bread.) Saniwax Paper Co. No. 23,403; Sept. 6; v. 290; p. 224.
- "Honey Scotch." (For Candy.) J. N. Collins Company. No. 23,349; Sept. 6; v. 290; p. 223.
- "Hook 'Em Cow." (For Cigars.) J. C. Verhaag. No. 23,249; Aug. 23; v. 289; p. 797.
- "Hopper's True Linen." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. Hopper. No. 23,544; Oct. 25.
- "Hopper's True Linen Pastel Gray." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. Hopper. No. 23,545; Oct. 25.
- "Hotel Galvez." (For Coffee.) Cheek-Neal Coffee Company. No. 23,348; Sept. 6; v. 290; p. 223.
- "Howdy." (For Soft Drinks and Syrups and Flavorings Therefor.) C. L. Grigg. No. 22,603. Mar. 1; v. 284; p. 180.
- "Hudson Bacon." (For Bacon.) Joseph Stern & Sons, Inc. No. 23,148; July 26; v. 288; p. 827.
- "Hudson Boiled Ham." (For Boiled Ham.) Joseph Stern & Sons, Inc. No. 23,149; July 26; v. 288; p. 827.
- "Hudson Ham." (For Ham.) Joseph Stern & Sons, Inc. No. 23,150; July 26; v. 288; p. 827.
- "Humming-Bird' Airplane." (For Toy Airplanes.) Scientific Products Co. No. 23,013; June 14; v. 287; p. 403.
- "Hurts Only Dirt." (For Cleaning and Scouring Compound for Household Use and for Cleaning, Scouring, and Polishing Metal, Glass, Woodwork, Machinery, &c.) Fitzpatrick Bros. No. 23,281; Aug. 30; v. 289; p. 1019.
- "Hygio Hair Net." (For Hair-Nets.) Graf Bros. No. 23,734; Dec. 13.
- "I. B. Co." (For Root-Beer.) Independent Breweries Company. No. 23,624; Nov. 8.
- "I-X-L." (For Receptacles Containing I-X-L, a Cleansing Preparation.) B. Heller & Co. No. 23,135; July 26; v. 288; p. 827.
- "Ideal." (For Bread.) Saniwax Paper Co. No. 22,981; May 31; v. 286; p. 1058.
- "Imported Liptauer." (For Brindza Cheese, Otherwise Known as Imported Liptauer or Sheep-Milk Cheese.) The Purity Cream Cheese Co. No. 23,821; Dec. 20.
- "Indian Head." (For Non-Intoxicating Beverages.) Iroquois Beverage Corporation. No. 22,627; Mar. 8; v. 284; p. 375.
- "Insect Gas." (For Insecticides.) D. Bowen. No. 23,658; Nov. 22.
- "Instant Pilsener Brand." (For Malt and Hop Syrup.) Popel-Giller Co. No. 23,698; Nov. 22.
- "Instantania." (For a Medicinal Preparation for Treatment of Rheumatism, Influenza, Lumbago, &c.) Bayer Company, Inc. No. 22,568; Feb. 15; v. 283; p. 549.
- "Insured Roofing." (For Asphalt Roofing.) Apco Asphalt Roofing Co. No. 22,452; Feb. 1; v. 283; p. 178.
- "Intimation." (For Cigars.) Supreme Cigar Co. No. 22,514; Feb. 1; v. 283; p. 179.
- "Invitation Chocolate." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,583; Feb. 15; v. 283; p. 549.
- "Iridio." (For Medicinal Proprietary Preparation.) W. D. P. Aims. No. 23,652; Nov. 22.
- "Iron and Nux." (For a Tonic.) Munyon's Homoeopathic Home Remedy Co. No. 22,551; Feb. 8; v. 283; p. 361.
- "Iroquois." (For Beverages Containing Not to Exceed One-Half of One Per Cent. of Alcohol, by Volume.) Iroquois Beverage Corporation. No. 22,695; Mar. 15; v. 284; p. 588.
- "Iroquois Indian Head." (For Non-Alcoholic Beverages.) Iroquois Beverage Corporation. No. 22,472; Feb. 1; v. 283; p. 178.
- "Irresistible Cap Net." (For Hair-Nets.) Gibbs & Company. No. 22,690; Mar. 15; v. 284; p. 588.
- "Italian Creams." (For Candles.) Loft, Inc. No. 23,637; Nov. 8.
- "Italy Brand." (For Macaroni.) G. Matalone. No. 23,479; Oct. 18.
- "J.D." (For Receptacles Containing Rubber Heels.) Counterbalance Rubber Heel Co. No. 23,448; Oct. 18.
- "Jack Frost Shirt." (For Shirts.) C. S. Drew and H. R. Lipke. No. 22,463; Feb. 1; v. 283; p. 178.
- "Jack Frost Syrup." (For Containers for Table-Syrup.) American Sugar Products Corporation. No. 23,444; Oct. 18.
- "Jack's Fly Chaser and Liquid Louse Killer." (For a Preparation for Exterminating Flies and Lice from Animals and Poultry.) H. B. Johnston. No. 22,629; Mar. 8; v. 284; p. 375.
- "Jackson Core." (For Automobile-Radiator Cores.) Jackson Auto Radiator Co. No. 23,080; July 5; v. 288; p. 201.
- "Jackson Lager Beer." (For Lager-Beer.) Jackson Brewing Company. No. 22,909; May 24; v. 286; p. 860.
- "Jaekel's Herb Remedy." (For Medicinal Remedies Made of Herbs.) F. Jaekel. No. 22,818; Mar. 29; v. 284; p. 955.
- "Jannetta." (For Hair-Nets.) M. Herzog. No. 23,362; Sept. 6; v. 290; p. 223.
- "Japanese Crepe." (For Toilet Paper, Paper Napkins, Towels, and Table-Cloths.) For Howard Paper Company. No. 22,957; May 31; v. 286; p. 1057.
- "Jaquelin's Cream of Magnesia." (For Medicinal Preparation Containing Magnesia.) Magnesium Products Co. No. 22,821; Mar. 29; v. 284; p. 955.
- "Jean the Superior Hair Net." (For Hair-Nets.) S. Glemby. No. 23,288; Aug. 30; v. 289; p. 1019.
- "Jersey." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,087; July 5; v. 288; p. 201.
- "Jersey Cream." (For Bread.) Saniwax Paper Co. No. 22,556; Feb. 8; v. 283; p. 361.
- "Jersey Cream." (For Wax-Paper Bread-Wrappers Containing Bread.) Menasha Printing and Carton Company. No. 22,913; May 24; v. 286; p. 860.
- "Jersey Gold." (For Butter.) Mountain Grove Creamery Ice and Electric Company. No. 23,009; June 14; v. 287; p. 403.
- "Jevne's Pure Sugar Sticks for the Kiddies." (For Stick-Candy.) H. Jevne Co. No. 22,742; Mar. 22; v. 284; p. 753.
- "Jiffcake." (For Chocolate-Cake Flour.) Miller Cereal Mills. No. 22,479; Feb. 1; v. 283; p. 178.
- "Jiffy Pie." (For Cartons Containing a Mixture for Making Pie, Custard, Pudding, and Cake-Filling.) Jiffy Dessert Company. No. 23,032; June 28; v. 287; p. 783.
- "Jockey Club." (For Canned Peas.) Inderrieden Canning Co. No. 23,628; Nov. 8.
- "John Baldwin." (For Cigars.) A. C. Henschel & Company. No. 22,812; Mar. 29; v. 284; p. 955.
- "Johnson's Southern Home Bread." (For Wrappers for Loaves of Bread.) F. Johnson. No. 22,910; May 24; v. 286; p. 860.
- "Johnston's Dentex." (For Bottles Containing a Tooth-Cleaner.) Crech Chemical Co. No. 23,351; Sept. 6; v. 290; p. 223.
- "Jollet's H. S. Finest Cigars." (For Cigars.) G. Schoettes. No. 23,101; July 5; v. 288; p. 202.
- "Joy Blox for the Kiddies." (For Nested Toy Blocks.) J. Srofe. No. 23,577; Oct. 25.
- "Justgargle." (For Bottles, Boxes, and Packages Containing a Gargle.) J. L. Connell. No. 22,618; Mar. 8; v. 284; p. 375.
- "Kadee." (For Cigarettes.) Christian Peper Tobacco Company. No. 22,616; Mar. 8; v. 284; p. 375.
- "Kaffee Hag." (For Coffee.) Kaffee Hag Corporation. No. 22,819; Mar. 29; v. 284; p. 955.
- "Kaffo." (For Carbonated Coffee Beverage.) Anheuser-Busch, Inc. No. 23,260; Aug. 30; v. 289; p. 1019.
- "Kanto." (For Packages Containing a Remedy for Leucorrhoea.) Kanto Company. No. 23,297; Aug. 30; v. 289; p. 1020.
- "Kellogg's Cooked Bran." (For Food Specifically Known as Kellogg's Cooked Bran.) Kellogg Toasted Corn Flake Co. No. 23,033; June 28; v. 287; p. 783.
- "Kenilworth." (For Tuna.) Star Packing Company. No. 23,707; Nov. 22.
- "Keno." (For Toilet-Paper.) Apex Paper Manufacturing Company, Inc. No. 23,790; Dec. 20.
- "Ker-Ene." (For Deodorized Kerosene.) Ultra Refined Crude Products Company. No. 22,517; Feb. 1; v. 283; p. 179.
- "Khels." (For Liver-Pills.) American Grocers Society. No. 23,176; Aug. 23; v. 289; p. 796.
- "Kiddle Knead." (For Bread.) Ruch-Drompp Grocery Co. No. 23,099; July 5; v. 288; p. 202.



*Alphabetical list of labels—Continued.*

- "Kil-Oil." (For a Disinfectant, Deodorizer, and Germicide.) P. V. Stiefen. No. 23,327; Aug. 30; v. 289; p. 1020.
- "Kina-Tone." (For Bottles Containing Kina-Tone.) W. D. Del-Wit. No. 23,280; Aug. 30; v. 289; p. 1019.
- "King Brady's Red Oil." (For Bottles of Liniment.) K. Brady. No. 22,895; May 24; v. 286; p. 860.
- "King Cole." (For Coffee.) Canby, Ach and Canby Company. No. 22,723; Mar. 22; v. 284; p. 753.
- "King Fisher." (For Canned Peas.) Inderrieden Canning Co. No. 23,627; Nov. 8.
- "King Liquid Paint, Highest Quality, King Paint Products." (For Containers for Liquid Paint and Paint Products.) Chicago White Lead and Oil Co. No. 22,602; Mar. 1; v. 284; p. 180.
- "King Packing Ring." (For Boxes Containing King Packing-Rings.) United States Metallic Packing Company. Nos. 23,606-9; Nov. 1.
- "King Pop Corn." (For Cartons for Our First-Grade Popcorn.) Northrup, King & Co. No. 22,385; Jan. 11; v. 282; p. 384.
- "King & Winston." (For a Pile Remedy.) A. W. Bishop. No. 22,601; Mar. 1; v. 284; p. 180.
- "Kinnetts Velvet Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,382; Sept. 6; v. 290; p. 224.
- "Kirkman's Floating Soap." (For Wrapper for a Floating Soap for Toilet and Bath.) Kirkman & Son. No. 23,298; Aug. 30; v. 289; p. 1020.
- "Kirk's American Family Washing Machine Soap Chips." (For Soap Chips.) James S. Kirk & Company. No. 22,820; Mar. 29; v. 284; p. 955.
- "Kirk's Original Cocoa Hardwater Castile." (For Castile-Soap.) James S. Kirk & Company. No. 22,630; Mar. 8; v. 284; p. 375.
- "Kirk's Soluble Washing Powder." (For Washing-Powder.) J. S. Kirk & Company. No. 22,432; Jan. 25; v. 282; p. 739.
- "Kisaki." (For Nainsook.) Charles L. Poor Co. No. 23,097; July 5; v. 288; p. 202.
- "Kitchen Klenzer Maid." (For Cleaning and Scouring Compound.) Fitzpatrick Bros. No. 22,466; Feb. 1; v. 283; p. 178.
- "Klean-Glas." (For Liquid for Cleaning Glass.) E. Earl. No. 23,450; Oct. 18.
- "Kleodore Toilet Cream." (For Bottles Containing Kleodore Toilet Cream.) T. P. Klee. No. 23,474; Oct. 18.
- "Klip." (For Cigars.) C. H. Sollday. No. 23,768; Dec. 13.
- "Knapp's Inner Investment." (For Dental Investment Material.) M. F. Patterson Dental Supply Company. No. 23,697; Nov. 22.
- "Knapp's Outer Investment." (For Dental Investment Material.) M. F. Patterson Dental Supply Company. No. 23,696; Nov. 22.
- "Knicker Kloth." (For Linen Cloth.) H. S. McKeag. No. 23,809; Dec. 20.
- "Knickerette." (For a Sanitary Bloomer-Protector.) The Solvos Company. No. 23,830; Dec. 20.
- "Koehler." (For Cigars.) Walter E. Koehler Co. No. 22,607; Mar. 1; v. 284; p. 180.
- "Koff-No-Mor." (For a Remedy for Coughs, Colds, &c.) H. C. Buchert. No. 22,950; May 31; v. 286; p. 1057.
- "Kolb's Permit Loaf." (For Bread.) G. O. Kolb. No. 22,631; Mar. 8; v. 284; p. 375.
- "Konservirungs-Salt." (For a Preparation for Curing Meat, Fish, Powl, and Game.) B. Heller & Co. No. 23,201; Aug. 23; v. 289; p. 796.
- "Kothlow's Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,084; July 5; v. 288; p. 201.
- "Kraft's Kold Kapsules." (For Packages Containing a Remedy for Colds and La Grippe.) H. E. Kraft. No. 22,970; May 31; v. 286; p. 1057.
- "Krank's In Vigorator." (For Bottles of Hair-Dresser.) A. J. Krank. No. 23,422; Sept. 13; v. 290; p. 431.
- "Krank's Natural Face Powder." (For Boxes Containing Face-Powder.) A. J. Krank. No. 23,632; Nov. 8.
- "Creamy Korn Kernels." (For Breakfast Cereal.) Marshall Canning Co. No. 22,544; Feb. 8; v. 283; p. 361.
- "Kreem Nut." (For Oleomargarin.) W. J. Haerberlein. No. 23,420; Sept. 13; v. 290; p. 431.
- "Kremola." (For Skin-Cream.) Dr. C. H. Berry Company. No. 23,720; Dec. 13.
- "Krispeanut Candy." (For Peanut-Candy or for Candy Containing Peanuts.) Lummis and Company. No. 22,697; Mar. 15; v. 284; p. 588.
- "Krispy-Krust." (For Bread.) Hazleton Baking Company. No. 22,392; Jan. 11; v. 282; p. 563.
- "Krownit." (For Hair-Tonic.) Melchior Supply Co. No. 23,217; Aug. 23; v. 289; p. 797.
- "L. S. U. Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,662; Mar. 8; v. 284; p. 376.
- "La Belle Coquette." (For Pomade.) Harriet Hubbard Ayer. No. 23,185; Aug. 23; v. 289; p. 796.
- "La Creole Hair Dressing." (For Cartons in Which are Bottles Containing a Hair-Tonic.) Van Vleet-Mansfield Drug Co. No. 23,611; Nov. 1.
- "La Fredrick." (For Cigars.) W. Fredrick. No. 23,534; Oct. 25.
- "La Minar." (For Cigars.) La Minar Cigar Co. Inc. No. 23,634; Nov. 8.
- "La Poloma Mexican Pralines." (For Nut-Candy.) St. Regis Confectionery Company. No. 22,593; Feb. 15; v. 283; p. 549.
- "Lacjac." (For Cornichon Grapes.) C. Hitzl. No. 22,625; Mar. 8; v. 284; p. 375.
- "Lady Esther." (For Face-Powder.) Syma Cohen. No. 23,796; Dec. 20.
- "Lady Prim." (For Hair-Nets.) Chas. Rubens & Co. No. 23,762; Dec. 13.
- "Lady Sealpax." (For Underwear for Ladies and Children.) Oppenheim, Oberndorf & Co. No. 22,835; Mar. 29; v. 284; p. 956.
- "Lak-Side Brand Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,743; Dec. 13.
- "Lamb." (For Prunes.) The Lamb Fruit Company. No. 23,633; Nov. 8.
- "Lancaster, the Aristocrat of Bonds." (For Bond-Paper.) Gilbert Paper Co. No. 22,537; Feb. 8; v. 283; p. 361.
- "Lapidar." (For Goods Named Lapidar Which Consist of Medicinal Tablets Made of Herbs and Roots from the Swiss Alps.) R. Maurer. No. 23,425; Sept. 13; v. 290; p. 431.
- "La Sebana." (For Cigars, Cigarettes, and Tobacco.) A. Vorch. No. 23,412; Sept. 6; v. 290; p. 225.
- "Lasher's Giraffe Elastic." (For All Kinds of Elastics and Elastic Braids.) Star Merchandise Company. No. 23,706; Nov. 22.
- "Lasher's Moose Yarns." (For Woolen and Worsted Yarns.) Star Merchandise Company. No. 23,147; July 26; v. 288; p. 827.
- "Lasher's Moose Yarns Linen Thread." (For Linen Threads for Hand and Machine Sewing and Crocheting Purposes.) Star Merchandise Company. No. 23,858; Dec. 27.
- "Lasher's Wise-Snap Spring Dress Fasteners." (For Dress-Fasteners.) Star Merchandise Co. No. 22,610; Mar. 1; v. 284; p. 180.
- "Lassle." (For Hair-Nets.) B. Frankel Company, Inc., The. No. 23,591; Nov. 1.
- "Last a Life Time." (For Garbage-Receptacles and Crates and Boxes Containing Said Receptacles.) Detroit Concrete Receptacle Co. No. 22,580; Feb. 15; v. 283; p. 549.
- "Lather Kream." (For Boxes Containing a Preparation Which is Used as a Shaving-Cream.) A. J. Krank. No. 22,911; May 24; v. 286; p. 860.
- "La Valeta." (For Cigars.) A. C. Henschel & Company. No. 23,031; June 28; v. 287; p. 783.
- "Lavo-Kleen." (For Powder for Cleaning Closet-Bowls.) United States Supply Co. No. 23,247; Aug. 23; v. 289; p. 797.
- "Lawrence Brand XXX Malt." (For Beverages (Malt).) Eagle Beverage Co. No. 23,662; Nov. 22.
- "Le Chapeau Chic." (For Ladies' and Children's Hats.) Gould Millinery Co. No. 23,733; Dec. 13.
- "Le Flor De C. J. N." (For Cigars.) C. J. Nielsen's Sons. No. 23,232; Aug. 23; v. 289; p. 797.
- "Lem-Mud." (For Japs Containing Facial Treatment.) A. J. Krank. No. 23,211; Aug. 23; v. 289; p. 797.
- "Lemon Shampoo." (For Cartons Containing Bottles of Shampoo.) A. J. Krank. No. 23,212; Aug. 23; v. 289; p. 797.
- "Lemon-Zest." (For Containers Holding Lemon-Zest, a Lemon Flavoring Compound.) B. Heller & Co. No. 23,291; Aug. 30; v. 289; p. 1019.
- "Lewis' Shave-Ezee Creme." (For Shaving-Cream.) The Kreem-Eze Company. No. 23,213; Aug. 23; v. 289; p. 797.
- "Life Saver Pats Butter Scotch." (For Candies with a Butter-Scotch Flavor.) Mint Products Company, Inc. No. 23,091; July 5; v. 288; p. 202.
- "Life Saver Pats Lemon." (For Candies with a Lemon Flavor.) Mint Products Company, Inc. No. 23,092; July 5; v. 288; p. 202.
- "Life Saver Pats Lime." (For Candies with a Lime Flavor.) Mint Products Company, Inc. No. 23,094; July 5; v. 288; p. 202.
- "Life Saver Pats Orange." (For Candies with an Orange Flavor.) Mint Products Company, Inc. No. 23,093; July 5; v. 288; p. 202.
- "Light Acme a Healthful Beverage." (For Barrels, Containers, or Packages for Containing the Beverage.) California Brewing Association. No. 23,347; Sept. 6; v. 290; p. 223.
- "Light and Dark Chocolates." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 22,549; Feb. 8; v. 283; p. 361.
- "Lily White." (For Wax-Paper Bread-Wrappers Containing Bread.) Menasha Printing and Carton Company. No. 22,749; Mar. 22; v. 284; p. 753.
- "Limones." (For Containers for Cane-Sugar.) J. I. Lezama. No. 22,871; May 3; v. 286; p. 197.
- "Lindsay Strathmore." (For Pomegranates.) Lindsay-Strathmore Pomegranate Ass'n. No. 23,806; Dec. 20.
- "Lion Brand." (For Toilet-Paper.) Apex Paper Manufacturing Company, Inc. No. 23,789; Dec. 20.



*Alphabetical list of labels—Continued.*

- "Lip Sticks." (For Rouge, Cream, or Healing Compound in the Form of Sticks and for Application to the Lips.) Harriet Hubbard Ayer. No. 23,160; Aug. 9; v. 289; p. 409.
- "Liquid Cedar." (For a Liquid Oil Wash or Polish Made Chiefly of Oil of Cedar.) Eggert Chemical Company. No. 23,845; Dec. 27.
- "Liquid Hydrastone." (For Preparation for the Treatment of Uterine Diseases.) Ilaria Brothers. No. 22,815; Mar. 29; v. 284; p. 955.
- "Liquid Nail Enamel." (For Enamel for the Nails.) Harriet Hubbard Ayer. No. 23,152; Aug. 9; v. 289; p. 409.
- "Liquid Nail Enamel." (For Enamel for the Nails.) Harriet Hubbard Ayer. No. 23,178; Aug. 23; v. 289; p. 796.
- "Liquid Salatone." (For a Remedy for Epileptic Fits.) L. G. Shedd. No. 23,102; July 5; v. 288; p. 202.
- "Liquor Adrenalini Hydrochloricus." (For Remedy for Overcoming Local Congestions, to Check Local Hemorrhages, as a General Circulatory Stimulant, and for the Relief of Asthmatic Paroxysms.) C. Bardos, Jr. No. 23,521; Oct. 25.
- "Little Brown Jug." (For Syrup for Food Purposes.) J. L. Klein. No. 23,299; Aug. 30; v. 289; p. 1020.
- "Little Crow Pancake Flour." (For Prepared Flour.) Little Crow Milling Co. No. 22,972; May 31; v. 286; p. 1057.
- "Liver-Sules." (For Bottles or Boxes Containing a Medicine for the Liver.) Liversule Co., The. No. 22,973; May 31; v. 286; p. 1057.
- "Liveretts." (For Tablets for the Treatment of the Liver.) R. L. Eaton. No. 22,391; Jan. 18; v. 282; p. 563.
- "Long-Lease." (For Cigars.) Supreme Cigar Company. No. 22,675; Mar. 8; v. 284; p. 376.
- "Look for the Gingham Package." (For Biscuit-Flour.) H. Jeone Co. No. 23,548; Oct. 25.
- "Lorain." (For an Appliance or Attachment for Gas-Stoves.) American Stove Company. No. 23,837; Dec. 27.
- "Lorraine Hair Net." (For Hair-Nets.) S. Glemby. No. 23,286; Aug. 30; v. 289; p. 1019.
- "Lotion de Fraises (Strawberry Lotion)." (For Invigorant for the Skin.) Harriet Hubbard Ayer. No. 23,339; Sept. 6; v. 290; p. 223.
- "Lotus Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,751; Mar. 22; v. 284; p. 753.
- "Lovelee Hair Net." (For Hair-Nets.) S. Glemby. No. 23,285; Aug. 30; v. 289; p. 1019.
- "Lowrey's Pralines." (For Pecan Candy.) L. S. Lowrey. No. 23,476; Oct. 18.
- "Ludwig-Wolf Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,636; Mar. 8; v. 284; p. 375.
- "Lush Assortment." (For Chocolate Candy.) Milwaukee Paper Box Company. No. 22,548; Feb. 8; v. 283; p. 361.
- "Lux fibre." (For Moss for Upholstering Purposes.) Henry Wilhelm Co. No. 23,835; Dec. 20.
- "Luxuria." (For a Cosmetic Marvel Superior to Cold-Cream.) Harriet Hubbard Ayer. Nos. 23,335-6; Sept. 6; v. 290; p. 223.
- "Luxuria." (For Cosmetics.) Harriet Hubbard Ayer. No. 23,158; Aug. 9; v. 289; p. 409.
- "M-D Soap for Physicians and Surgeons." (For Soap.) James S. Kirk & Company. No. 22,744; Mar. 22; v. 284; p. 753.
- "M M." (For Remedy for Eczema.) M. M. Moreland. No. 22,407; Jan. 18; v. 282; p. 563.
- "Macbeth's Ox Gall Tablets Compound." (For Cartons or Boxes Inclosing or Containing a Pharmaceutical Preparation or Compound Containing Ox-Gall.) J. F. Murray. No. 23,692; Nov. 22.
- "Macbeth's Ox Gall Tablets Compound." (For Cartons or Boxes Inclosing or Containing a Pharmaceutical Preparation or Compound Containing Ox-Gall.) J. F. Murray. No. 23,693; Nov. 22.
- "Machinery Merchants." (For Machinery, Tools, and Parts Thereof.) Hill, Clark & Co. No. 22,869; May 3; v. 286; p. 197.
- "Mack's Cherry Smack." (For Candy.) Robt. F. Mackenzie Co. No. 22,767; Mar. 22; v. 284; p. 754.
- "Mad." (For Nail-Polish.) F. C. Irish. No. 22,969; May 31; v. 286; p. 1057.
- "Made-Right." (For Brooms.) The Griffin Broom Company. No. 23,360; Sept. 6; v. 290; p. 223.
- "Made to Wear Where the Wear is Hardest." (For Dry Paints, Paste Paints, and Ready-Mixed Paints.) Southern Cotton Oil Company, The. No. 23,832; Dec. 20.
- "Magic Cake Ready to Bake." (For Cake Compound.) National Flour Products Company. No. 22,438; Jan. 25; v. 282; p. 739.
- "Magic Salve." (For Salve for Rheumatism and Inflammatory Troubles.) E. Gambichler. No. 23,459; Oct. 18.
- "Mal Vaz." (For Malt Extract.) C. F. Urhel. No. 22,849; Mar. 29; v. 284; p. 956.
- "Malt and Hops." (For Syrup.) Croker Packing Co. No. 23,727; Dec. 13.
- "Malted-Mil-Krisps." (For a Popcorn Confection.) R. S. Sherratt. No. 23,104; July 5; v. 288; p. 202.
- "Manville Ruffit Cloth." (For Piece Goods.) Manville Company. Nos. 23,300-2; Aug. 30; v. 289; p. 1020.
- "Maple City Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,829; Mar. 29; v. 284; p. 956.
- "Mar-Randa." (For Hair-Shampoo.) J. B. Mars. No. 23,140; July 26; v. 288; p. 827.
- "Marathon." (For Chocolates.) D'Orlando Co. No. 23,589; Nov. 1.
- "Marblehead Anti-Fouling Bottom Composition." (For Paint.) Stearns-McKay Manufacturing Co. No. 22,512; Feb. 1; v. 283; p. 179.
- "Marcella." (For Canned Peas.) Inderrieden Canning Co. No. 23,737; Dec. 13.
- "Marge Cap Net." (For Hair-Nets.) Gibbs & Co. No. 23,356; Sept. 6; v. 290; p. 223.
- "Marmion." (For Cigars.) D. Foster. No. 23,456; Oct. 18.
- "Marshall." (For Canned Kraut.) Marshall Canning Co. No. 22,543; Feb. 8; v. 283; p. 361.
- "Marshmallow Cream Bananas." (For Confectionery-Containers.) Fred W. Amend Co. No. 23,509; Oct. 25.
- "Marshmallow Cream Corn." (For Confectionery-Containers.) F. W. Amend Co. No. 23,256; Aug. 30; v. 289; p. 1019.
- "Marvello Washing Powder." (For Cartons Containing the Washing-Powder.) Mrs. E. Sloan. No. 23,767; Dec. 13.
- "Mary Lincoln." (For Candles.) L. R. Steel Company. No. 23,434; Sept. 13; v. 290; p. 431.
- "Mary Wayne." (For Candles.) Heit-Miller-Lau Company. No. 23,594; Nov. 1.
- "Maryland Pride." (For Oleomargarin.) Baltimore Butterine Co. No. 23,188; Aug. 23; v. 289; p. 796.
- "Master Playermen." (For Pianos and Player-Pianos.) Master Playermen. No. 22,822; Mar. 29; v. 284; p. 955.
- "Material for Making Lace Valentines." (For Valentine Material.) George C. Whitney Company. No. 22,535; Feb. 8; v. 283; p. 361.
- "Maxwell House Good to the Last Drop." (For Coffee.) Cheek-Neal Coffee Company. No. 23,278; Aug. 30; v. 289; p. 1019.
- "May's Red Seal." (For Malt Extract.) May Beverage Company. No. 22,824; Mar. 29; v. 284; p. 955.
- "McDonald's Havana Seed Blender." (For Cigars.) Barbero-Toler Cigar Company. No. 22,530; Feb. 8; v. 283; p. 361.
- "McQuay-Norris Jiffy-Grip Piston Rings." (For Piston-Rings.) McQuay-Norris Mfg. Co. No. 22,888; May 10; v. 286; p. 412.
- "McQuay-Norris Jiffy Grip Piston Rings." (For Piston-Rings.) McQuay-Norris Mfg. Co. No. 23,216; Aug. 23; v. 289; p. 797.
- "Melan." (For Calf-Leather.) Barnet Leather Co. Inc. No. 23,656; Nov. 22.
- "Mel-O-Dee." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,684; Nov. 22.
- "Meloine." (For Receipts Containing Meloine, a Preparation Used in the Manufacture of Ice-Cream.) B. Heller & Co. No. 23,001; June 14; v. 287; p. 403.
- "Melrosine." (For Insecticides for the Destruction of Rose-Bugs.) Garden Chemical Co., Inc. No. 23,126; July 26; v. 288; p. 827.
- "Menu." (For Canned Peas.) Inderrieden Canning Co. No. 23,670; Nov. 22.
- "Mephisto a Devil-Ish Good Smoke." (For Cigar-Boxes and Cigars.) H. N. Ranel. No. 23,494; Oct. 18.
- "Metropolitan Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,388; Sept. 6; v. 290; p. 224.
- "Milk Maid." (For Waxed-Paper Wrappers Containing Bread.) Menasha Printing and Carton Company. No. 22,436; Jan. 25; v. 282; p. 739.
- "Milk-Maid Creams." (For Cream Confections.) Nuss Confectionery Co. No. 23,856; Dec. 27.
- "Milk Mints." (For Boxes Containing Milk Mints.) Milwaukee Paper Box Company. No. 23,688; Nov. 22.
- "Miller's Quality Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,380; Sept. 6; v. 290; p. 224.
- "Mil-Malt." (For Malt Syrup.) Milwaukee Malting & Grain Co. No. 23,218; Aug. 23; v. 289; p. 797.
- "Minona." (For Cigars.) Steil Brothers. No. 22,414; Jan. 18; v. 282; p. 563.
- "Miracle Washing Crystals." (For Washing Clothes, Windows, Woodwork, Dishes, and for Cleaning Purposes.) Cargill Brothers. No. 23,064; July 5; v. 288; p. 201.
- "Miss Hunter's Fruit Nut Chocolates." (For Candy.) (Miss) E. D. Hunter. No. 23,547; Oct. 25.
- "Missouri." (For Overalls.) G. D. Milligan Grocer Co. No. 23,748; Dec. 13.
- "Mi Wauke." (For Cigars.) B. Speir. No. 22,445; Jan. 25; v. 282; p. 739.
- "Mme J. H. Lane's 'Over the Top' Hair Cream." (For Containers of the Aforesaid Hair-Cream.) Mrs. J. H. Lane. No. 23,475; Oct. 18.
- "Moon Girl." (For Butter.) F. Hurwitz. No. 22,740; Mar. 22; v. 284; p. 753.
- "Moon Witchery." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,699; Mar. 15; v. 284; p. 588.



## Alphabetical list of labels—Continued.

- "Morgan's Complexion Candles." (For Complexion-Candles.) S. H. Morgan Manufacturing Company. No. 22,496; Feb. 1; v. 283; p. 179.
- "Morgan's Hair Food." (For Hair Food.) S. H. Morgan Manufacturing Company. No. 22,759; Mar. 22; v. 284; p. 754.
- "Morgan's Magic Day Cream." (For Cold-Cream.) S. H. Morgan Manufacturing Company. No. 22,495; Feb. 1; v. 283; p. 179.
- "Morgan's Magic Shaving Lotion." (For Shaving-Lotion.) S. H. Morgan Manufacturing Company. No. 22,757; Mar. 22; v. 284; p. 754.
- "Morgan's Magic Skin Food." (For Cold-Cream.) S. H. Morgan Manufacturing Company. No. 22,494; Feb. 1; v. 283; p. 179.
- "Morgan's Magical Cold Cream." (For Cold-Cream.) S. H. Morgan Manufacturing Company. No. 23,485; Oct. 18.
- "Morgan's Tar Tonic." (For Tar Tonic.) S. H. Morgan Manufacturing Company. No. 22,758; Mar. 22; v. 284; p. 754.
- "Morgan's Vegetable Face Lotion." (For Face-Lotion.) S. H. Morgan Manufacturing Company. No. 22,760; Mar. 22; v. 284; p. 754.
- "Mother Goose." (For Tooth-Brushes.) Williams Brush Company. No. 22,787; Mar. 22; v. 284; p. 754.
- "Mother Houghton's Chicken Hamburg." (For Cooked Meat—Namely, Chicken Hamburg.) D. La Fortune. No. 23,598; Nov. 1.
- "Mothers." (For Bread.) Saniwax Paper Co. No. 23,702; Nov. 22.
- "Mother's Pile Ointment." (For Medicinal Salve.) E. Burgoon. No. 23,345; Sept. 6; v. 290; p. 223.
- "Mount Scott Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,646; Mar. 8; v. 284; p. 376.
- "Mowry's Golden Glow Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,482; Oct. 18.
- "Mozzel Sham Pagne." (For Non-Cereal, Maltless, Non-Alcoholic Beverage Sold as a Soft Drink.) G. U. Lipshulch. No. 23,556; Oct. 25.
- "Mrs. Randall's Cream Salad Dressing." (For Receptacles Containing Salad-Dressing.) Mrs. M. O. Randall. No. 23,024; June 21; v. 287; p. 592.
- "Mrs. Shepard's Apple Flakes." (For Packages or Containers Containing Flaked and Cooked Apples.) Shepard Fruit Products Company. No. 23,103; July 5; v. 288; p. 202.
- "Mrs. Thompson's Home Dentist." (For a Preparation of Olive-Oil 99% and Pure Vanilla 1% for Toothache.) Mrs. Ida Thompson. No. 23,109; July 5; v. 288; p. 202.
- "Mule." (For Cigarettes.) R. S. Linton. No. 23,555; Oct. 25.
- "Munyon's Horke Vino." (For a Natural Health-Tonic.) Munyon's Homeopathic Home Remedy Company. No. 22,761; Mar. 22; v. 284; p. 754.
- "Muscadine Toddy." (For Containers for Beverages of a Non-Alcoholic Nature.) Cinco Syrups and Fountains Company. No. 22,896; May 24; v. 286; p. 860.
- "Muscalet." (For Beverage Made from Pure Mashed Fruits.) Muscalet Beverage Co. No. 22,408; Jan. 18; v. 282; p. 563.
- "Mussolino." (For Cigars.) Cole Lithographing & Printing Co. No. 23,726; Dec. 13.
- "Mustard Dressing." (For Mustard Dressing.) Van Camp Packing Company. No. 22,681; Mar. 8; v. 284; p. 377.
- "My Formula." (For a Medicinal Preparation for the Treatment of Nervous Diseases.) R. G. Zucker. No. 22,854; Apr. 12; v. 285; p. 390.
- "My Formula." (For Medicinal Preparation for the Treatment of Epileptic Fits and Convulsions.) R. G. Zucker. No. 22,855; Apr. 12; v. 285; p. 390.
- "Nafziger Certified Bread." (For Bread.) Nafziger Baking Company. No. 22,916; May 24; v. 286; p. 860.
- "Nalco." (For Malt Extract.) G. Loewus & Co. No. 22,473; Feb. 1; v. 283; p. 178.
- "Naragansett Spring." (For Ginger-Ale.) J. Berthiaume & Co. No. 22,796; Mar. 29; v. 284; p. 955.
- "National Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,665; Mar. 8; v. 284; p. 376.
- "National Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,383; Jan. 11; v. 282; p. 384.
- "Natural No. 1 Garden Peas." (For Dried Peas.) Willer & Riley (1910) Ltd. No. 22,886; May 3; v. 286; p. 197.
- "Natural No. 2 Green Peas." (For Dried Peas.) Willer & Riley (1910) Ltd. No. 22,885; May 3; v. 286; p. 197.
- "Necco Sweets." (For Candy.) New England Confectionery Company. No. 23,315; Dec. 20.
- "Needham's Hay Fever Spray." (For Sprays for the Relief of Hay-Fever.) The Needham Products Co. No. 23,640; Nov. 8.
- "Neo-Balsam Compound." (For Packages Containing Filling Material for Filling the Root-Canals of Teeth.) A. A. Brown. No. 23,277; Aug. 30; v. 289; p. 1019.
- "Neuman's Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,559; Oct. 25.
- "New Crow." (For Non-Alcoholic Beverages.) L. Schiller. No. 22,508; Feb. 1; v. 283; p. 179.
- "New England." (For Bread.) Saniwax Paper Co. No. 22,772; Mar. 22; v. 284; p. 754.
- "New York Sheep Exhibition Cigar." (For Cigars.) H. & G. Metzner. No. 23,810; Dec. 20.
- "Newhall." (For Asparagus-Tips.) H. M. Newhall & Co. No. 22,499; Feb. 1; v. 283; p. 179.
- "Newhall." (For Sardines.) H. M. Newhall & Co. No. 22,498; Feb. 1; v. 283; p. 179.
- "Niagara Brand Nitrate of Soda." (For Nitrate of Soda.) Battelle & Renwick. No. 22,793; Mar. 29; v. 284; p. 955.
- "Niagara Brand Saltpetre." (For Saltpetre or Potassium Nitrate.) Battelle & Renwick. No. 22,792; Mar. 29; v. 284; p. 955.
- "Nickel Plate." (For Coffee.) Townsend Wholesale Grocery Company. No. 23,713; Nov. 22.
- "Nicomors The Super-Gum." (For Chewing-Gum.) Nicomors Products Company, The. No. 23,694; Nov. 22.
- "No-Bed Bug." (For Containers for a Bedbug-Exterminator.) Triangle Chemical Co. No. 23,771; Dec. 13.
- "No-Insect." (For Containers for an Insect-Exterminator.) Triangle Chemical Co. No. 23,773; Dec. 13.
- "No Kil Scratch Feed." (For Bags of Poultry Feed.) Northrup, King & Co. No. 23,393; Sept. 6; v. 290; p. 224.
- "No Rat." (For Containers for a Rat-Exterminator.) Triangle Chemical Co. No. 23,770; Dec. 13.
- "No Roach." (For Containers for a Roach-Exterminator.) Triangle Chemical Co. No. 23,772; Dec. 13.
- "No Smoking." (For Advertising Purposes for Piston-Rings.) Reus Bros. Co., The. No. 23,570; Oct. 25.
- "No-Vet." (For Baby Pants.) S. Beechman & Sons Inc. No. 23,618; Nov. 8.
- "No-Zo." (For Containers for an Antiseptic for Nose and Mouth.) C. A. Fowler. No. 23,197; Aug. 23; v. 289; p. 796.
- "None Better Naphtha Borax Soap." (For Naphtha Borax Soap.) Armour and Company. No. 22,612; Mar. 8; v. 284; p. 375.
- "Norbest." (For Sardines.) I. Burger, Inc. No. 23,344; Sept. 6; v. 290; p. 223.
- "Norris Assorted Chocolates Special Selected Centres." (For Candy.) Norris, Inc. No. 22,703; Mar. 15; v. 284; p. 588.
- "Norris Assorted Nut Chocolates." (For Candy.) Norris, Inc. No. 22,709; Mar. 15; v. 284; p. 588.
- "Norris Chocolate Cream Brazil Nuts." (For Candy.) Norris, Inc. No. 22,710; Mar. 15; v. 284; p. 588.
- "Norris Exquisite Candles." (For Candles.) Norris, Inc. No. 22,705; Mar. 15; v. 284; p. 588.
- "Norris Old Fashioned Peanut Brittle." (For Candy.) Norris, Inc. No. 22,704; Mar. 15; v. 284; p. 588.
- "Norris Old Fashioned Peanut Brittle." (For Candy.) Norris, Inc. No. 22,707; Mar. 15; v. 284; p. 588.
- "Northern Ohio Woolware." (For Use Upon Wool Robes and Wool Shawls.) Beckman Company. No. 22,857; May 3; v. 286; p. 197.
- "Northern Ohio Woolware." (For Wool Robes and Wool Shawls.) Beckman Company, The. No. 22,947; May 31; v. 286; p. 1057.
- "Northrup, King & Co.'s Sterling Buttermilk Mash." (For Bags of Poultry Feed.) Northrup, King & Co. No. 23,487; Oct. 18.
- "Northrup, King & Co.'s Special Scratch Feed." (For Bags of Poultry Feed.) Northrup, King & Co. No. 23,753; Dec. 13.
- "Notair." (For Hair-Nets.) N. B. Cohen. No. 22,996; June 14; v. 287; p. 403.
- "Novel Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,399; Jan. 18; v. 282; p. 563.
- "Nu-Lade Eggs." (For Eggs.) Pacific Co-Operative Poultry Producers. No. 23,430; Sept. 13; v. 290; p. 431.
- "Nu-Life Silver Plate and Polish." (For Bottled Silver Plate and Polish.) Mrs. K. Camp. No. 23,660; Nov. 22.
- "Nu-Tone." (For a Liquid Preparation for the Treatment of Hog Diseases.) Nu-Tone Company. No. 22,669; Mar. 8; v. 284; p. 376.
- "Nu-Tro." (For a Compound of Skimmed Milk and Coconut-Fats.) Indiana Condensed Milk Company. No. 22,817; Mar. 29; v. 284; p. 955.
- "Nufibre." (For Prepared Moss.) Henry Wilhelm Company. No. 23,439; Sept. 13; v. 290; p. 431.
- "Nuforal." (For a Preparation to be Used in Connection with the Treatment of Tuberculosis.) Nuforal Laboratories. No. 23,044; June 28; v. 287; p. 783.
- "Nuprocess." (For Moss for Upholstering Purposes.) Henry Wilhelm Co. No. 23,834; Dec. 20.
- "Nuss Butter Cream Specialties." (For Cream Confections.) The Nuss Confectionery Co. Nos. 23,816-18; Dec. 20.
- "Nut and Fruit Assortment." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,485; Feb. 1; v. 283; p. 178.



- "Nuts and Fruits Chocolate Covered." (For Boxes Containing Chocolate Covered Nuts and Fruits.) Milwaukee Paper Box Company. No. 22,752; Mar. 22; v. 284; p. 753.
- "Nutritious Bread Clean." (For Bread.) L. Simon. No. 23,603; Nov. 1.
- "Nutties." (For Candy of Nut Variety.) R. G. Morle. No. 23,144; July 26; v. 288; p. 827.
- "O-Cedar." (For Polish for Furniture, Floors, Linoleum, Pianos and Autos.) Channell Chemical Company. No. 23,026; June 28; v. 287; p. 783.
- "Oak Glen Brand." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,477; Feb. 1; v. 283; p. 178.
- "Oasis." (For Beverages.) H. Conover. No. 23,066; July 5; v. 288; p. 201.
- "Odom's Quality Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,379; Sept. 6; v. 290; p. 224.
- "Oh! Please." (For Candy.) Val. Blatz Jr. Candy Co. No. 23,248; Aug. 23; v. 289; p. 797.
- "Okay." (For Calf-Leather.) Barnet Leather Co. Inc. No. 23,655; Nov. 22.
- "Old Abe." (For Canned Peas.) Inderrieden Canning Co. No. 23,626; Nov. 8.
- "Old Dutch Chocolates." (For Candies.) Loft, Inc. No. 23,386; Nov. 8.
- "Old English Lavender Shampoo." (For Preparation for Cleaning the Hair.) Harriet Hubbard Ayer. No. 23,268; Aug. 30; v. 289; p. 1019.
- "Old Faithful." (For Coffee.) W. J. Menke. No. 23,639; Nov. 8.
- "Old Fashioned." (For Bread.) Saniwax Paper Co. No. 23,701; Nov. 22.
- "Old Fashioned Bestick." (For Stick-Candy.) Union Candy Co. Nos. 22,518-19; Feb. 1; v. 283; p. 179.
- "Old Kentucky." (For Jelly-Roll.) United States Foil Company. No. 23,246; Aug. 23; v. 289; p. 797.
- "Old Kentucky Bonded Blue Grass Rye." (For Tiny Bottles Containing Water, Few Grains of Rye, and Real Blue-Grass as an Advertising Novelty.) S. R. Cook. No. 22,897; May 24; v. 286; p. 860.
- "Old Linen." (For Toilet-Paper, Being Applied to the Package Containing the Same.) May Department Stores Company. No. 23,371; Sept. 6; v. 290; p. 224.
- "Old Mexican Cactus Candy." (For Boxes Containing Candy.) Milwaukee Paper Box Company. No. 23,749; Dec. 13.
- "Old National Trail." (For Cigars.) V. Levor. No. 22,633; Mar. 8; v. 284; p. 375.
- "Old Style." (For Coffee.) A. J. Kasper Company. No. 22,606; Mar. 1; v. 284; p. 180.
- "One Dozen Extra Selected Corn Belt Large Size Eggs." (For Cartons Containing Eggs.) Pioneer Creamery Co. No. 23,045; June 28; v. 287; p. 783.
- "\$1 000.00 Guaranteed Ant-Bane." (For Cans Containing Guaranteed Ant-Killer.) B. Heller & Co. No. 23,132; July 26; v. 288; p. 827.
- "\$1 000.00 Guaranteed Bed Bug Killer." (For Cans Containing Bedbug-Killer.) B. Heller & Co. No. 23,200; Aug. 23; v. 289; p. 796.
- "\$1 000.00 Guaranteed Bed-Bug Killer." (For Insecticide for Destroying Bedbugs, Mites, Ticks, Poultry-Lice, Ants, and other Insects.) B. Heller & Co. No. 23,294; Aug. 30; v. 289; p. 1020.
- "\$1 000 00 Guaranteed Rat and Mice Killer." (For Cans Containing a Guaranteed Rat and Mice Killer.) B. Heller & Co. No. 23,131; July 26; v. 288; p. 827.
- "\$1 000 00 Guaranteed Roach Killer." (For Cartons Containing Cans of a Roach-Killer.) B. Heller & Co. No. 23,077; July 5; v. 288; p. 201.
- "\$1 000.00 Guaranteed Roach Killer." (For Cans Containing a Guaranteed Roach-Killer.) B. Heller & Co. No. 23,133; July 26; v. 288; p. 827.
- "Oppy's Special." (For Boxes Containing Cigars.) Oppy's Cigar Stores. No. 22,918; May 24; v. 286; p. 860.
- "Orange Drops." (For Candies.) Beech-Nut Packing Company. No. 22,531; Feb. 8; v. 283; p. 361.
- "Orange-Zest." (For Containers Holding Orange-Zest, an Orange Flavoring Compound.) B. Heller & Co. No. 23,165; Aug. 9; v. 289; p. 409.
- "Oregon Cherries." (For Chocolate-Covered Cherries.) Vogan Candy Company. No. 22,991; May 31; v. 286; p. 1058.
- "Oriental Liniment." (For a Liniment.) F. Rosin. No. 23,236; Aug. 23; v. 289; p. 797.
- "Oro-Lite." (For Wood-Finishes.) Summit Varnish Company. No. 22,513; Feb. 1; v. 283; p. 179.
- "Oro Syrup for Bakers and Confectioners." (For Barrels, Containers, or Packages Containing the Syrup.) Cereal Products Refining Company. No. 22,572; Feb. 15; v. 283; p. 549.
- "Osborn's Apple Sauce." (For Apple Sauce.) New York Canners, Inc. No. 23,231; Aug. 23; v. 289; p. 797.
- "Our Favorite Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,376; Sept. 6; v. 290; p. 224.
- "Our National Mayonnaise." (For Mayonnaise.) B. Alperin. No. 23,508; Oct. 25.
- "Our Old Monastery Malt Extract." (For Cans Containing Malt Extract.) H. D. Sterrick. No. 22,988; May 31; v. 286; p. 1058.
- "Our-Own." (For Socks.) King & Company. No. 23,210; Aug. 23; v. 289; p. 797.
- "Ovaltine." (For Tins Containing Ovaltine.) Wander Company, The. No. 23,581; Oct. 25.
- "Ovaltine." (For Tins Containing Ovaltine.) Wander Company, The. No. 23,613; Nov. 1.
- "Over the Desert Sands." (For Packages of Cigarettes and Tobacco.) H. A. Staggs. No. 23,648; Nov. 8.
- "Owl Brand Pure Malt Extract." (For Tin Cans Containing Malt Extract.) J. Rode & Son. No. 22,671; Mar. 8; v. 284; p. 376.
- "Ozo Toilet Cleaner." (For Receptacles Containing Ozo Toilet Cleaner, a Preparation for Cleaning Closet-Bowls.) B. Heller & Co. No. 23,023; June 21; v. 287; p. 592.
- "Ozo Washing Powder." (For Receptacles Containing Ozo Washing-Powder.) B. Heller & Co. No. 23,803; Dec. 20.
- "Ozo Waste Pipe Opener." (For Receptacles Containing Ozo Waste-Pipe Opener, a Preparation for Opening Stopped-Up Pipes.) B. Heller & Co. No. 23,167; Aug. 9; v. 289; p. 409.
- "Palm Beach Brick Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,650; Mar. 8; v. 284; p. 376.
- "Pan-Ola." (For Wheat-Flour.) M. Ainsa & Sons, Inc. No. 23,836; Dec. 27.
- "Panel Design." (For Hairpins.) Sterling Pin Company. No. 22,561; Feb. 8; v. 283; p. 361.
- "Pansy Design." (For Hairpins.) Sterling Pin Company. No. 22,563; Feb. 8; v. 283; p. 361.
- "Paradise." (For Canned Apricots.) Bisceglia Brothers Canning Co. No. 22,687; Mar. 15; v. 284; p. 588.
- "Paramount Linen Finish." (For Boxes of Stationery.) White & Wyckoff Mfg. Co. No. 22,851; Mar. 29; v. 284; p. 956.
- "Parfait." (For Hair-Nets.) Pagoda Import Company, Inc. No. 23,488; Oct. 18.
- "Parker's Dandruff Mange Treatment." (For a Medicinal Compound for Treating Dandruff and Mange.) E. Parker. No. 22,919; May 24; v. 286; p. 860.
- "Passaic Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,658; Mar. 8; v. 284; p. 376.
- "Peacock." (For Syrup.) Penick & Ford. Nos. 22,440-1; Jan. 25; v. 282; p. 739.
- "Peacock Brand Birch Beer." (For Bottles and Packages Containing a Lawful Beverage Known and Designated as Birch-Beer.) Weisbrod & Hess Brewing Co. No. 22,779; Mar. 22; v. 284; p. 754.
- "Peacock Brand Ginger Ale." (For Bottles and Packages Containing a Lawful Beverage Known and Designated as Ginger-Ale.) Weisbrod & Hess Brewing Co. No. 22,783; Mar. 22; v. 284; p. 754.
- "Peacock Brand Lemon Soda." (For Bottles and Packages Containing a Lawful Beverage Known and Designated as Lemon-Soda.) Weisbrod & Hess Brewing Co. No. 22,780; Mar. 22; v. 284; p. 754.
- "Peacock Brand Root Beer." (For Bottles and Packages Containing a Lawful Beverage Known and Designated as Root-Beer.) Weisbrod & Hess Brewing Co. No. 22,781; Mar. 22; v. 284; p. 754.
- "Peacock Brand Sarsaparilla." (For Bottles and Packages Containing a Lawful Beverage Known and Designated as Sarsaparilla.) Weisbrod & Hess Brewing Co. No. 22,782; Mar. 22; v. 284; p. 754.
- "Peacock Brand Vanilla Soda." (For Bottles and Packages Containing a Lawful Beverage Known and Designated as Vanilla-Soda.) Weisbrod & Hess Brewing Co. No. 22,784; Mar. 22; v. 284; p. 754.
- "Peacock Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,635; Mar. 8; v. 284; p. 375.
- "Peacock Instant Coffee." (For Powdered Coffee.) Empire Food Products Company. No. 23,533; Oct. 25.
- "Peanut Andy." (For Peanut Candy.) Martin M. Hoffman. No. 23,595; Nov. 1.
- "Peanut Kake." (For Candy.) W. J. Hirsch Company. No. 23,363; Sept. 6; v. 290; p. 223.
- "Pear Crush." (For Non-Intoxicating Cereal Beverage.) Mid West Products Co. No. 22,830; Mar. 29; v. 284; p. 956.
- "Pearl Oil." (For Five-Gallon Cans Containing Illuminating and Heating Oils and on the Cases in Which the Said Cans are Packed.) Standard Oil Company. No. 23,769; Dec. 13.
- "Pecan-Nougat-Loaf." (For Pecan-Nougat Loaves.) Charms Co. No. 22,423; Jan. 25; v. 282; p. 739.
- "Pecunut Crisp." (For a Nut Confection in the Form of Candy.) Westmoreland Candy Company. No. 23,779; Dec. 13.
- "Peerless Grain Vinegar." (For Vinegar.) Cereal Products Refining Company. No. 22,377; Jan. 11; v. 282; p. 384.
- "Peerless Ice Cream Co." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,653; Mar. 8; v. 284; p. 376.
- "Penn." (For Receptacles Containing Brass Goods.) Penn Brass Manufacturing Co. No. 23,819; Dec. 20.
- "People's Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,223; Aug. 23; v. 289; p. 797.



*Alphabetical list of labels—Continued.*

- "Peoria." (For Canned Red Beans.) F. J. Brons. No. 22,455; Feb. 1; v. 283; p. 178.
- "Pep-Step." (For Cartons Containing Foot-Pads.) Pep-Step Corp. No. 23,397; Sept. 6; v. 290; p. 224.
- "Pep Vito." (For Bottle as a General Tonic.) Scranton Drug Mfg. Co. No. 23,829; Dec. 20.
- "Perfect Baking Always with Perfect Day Flour." (For Flour.) Richland Milling Company. No. 22,923; May 24; v. 286; p. 860.
- "Perfection Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,828; Mar. 29; v. 284; p. 956.
- "Perfection in Confection Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,666; Mar. 8; v. 284; p. 376.
- "Perfex." (For Typewriter Carbon-Paper.) U. S. Mantfold Company. No. 23,019; June 14; v. 287; p. 403.
- "Permanent Tip." (For Shoe-Laces.) L. & R. Company. No. 23,423; Sept. 13; v. 290; p. 431.
- "Pete Wendling." (For Cigars.) A. M. Leon & Co. No. 23,006; June 14; v. 287; p. 403.
- "Peter Rabbit's Race Game." (For Cover of Box Containing the Game.) Frederick Warne & Co. No. 23,777; Dec. 13.
- "Petrol Hair Tonic." (For Packages Containing Petro Hair-Tonic.) R. Odell & Sons Co. No. 22,833; Mar. 29; v. 284; p. 956.
- "Pewaukee Lake." (For Canned Peas.) Inderrieden Canning Co. No. 23,669; Nov. 22.
- "Peyton Linen Lawn." (For Correspondence-Paper.) Peyton Paper Co. No. 23,118; July 12; v. 288; p. 430.
- "Philo-Derma." (For the Skin.) The Philo-Derma Company. No. 22,410; Jan. 18; v. 282; p. 563.
- "Piccadilly." (For Handkerchiefs.) Herrmann, Aukam & Co. No. 22,738; Mar. 22; v. 284; p. 753.
- "Pieces of Eight." (For Boxes Containing Chocolates.) Milwaukee Paper Box Company. No. 22,403; Jan. 18; v. 282; p. 563.
- "Piel's Pippin Ale." (For a Beverage.) Piel Bros., Inc. No. 22,553; Feb. 8; v. 283; p. 361.
- "Pilgrim Bread." (For Bread.) Newark Paraffine & Parchment Paper Co. No. 22,762; Mar. 22; v. 284; p. 754.
- "Pillsbury's Toasted Nut Kisses." (For Candy.) J. C. Pillsbury. No. 23,491; Oct. 18.
- "Pimento-Rolls." (For Meat Products.) Frank & Company. No. 22,427; Jan. 25; v. 282; p. 739.
- "Pimento Sausage." (For Meat Products—Namely, Pimento Sausage.) Frank & Company. No. 22,623; Mar. 8; v. 284; p. 375.
- "Pine Salve." (For Bottles Containing Soothing and Healing Salve.) Pine Salve Co. No. 23,398; Sept. 6; v. 290; p. 224.
- "Pingree's Old Glory Brand." (For Coffee.) C. H. Pingree. No. 23,492; Oct. 18.
- "Pioneer Brighton Wide Web Garter." (For Men's Garters.) Pioneer Suspender Company. No. 22,608; Mar. 1; v. 284; p. 180.
- "Playhouse." (For Candy.) C. May. No. 23,304; Aug. 30; v. 289; p. 1020.
- "Poison Wheat or Poisoned Grain." (For a Poisonous Compound for Rats, Mice, Gophers, or Moles.) H. Schroeder. No. 22,509; Feb. 1; v. 283; p. 179.
- "Polar a Delicious Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,654; Mar. 8; v. 284; p. 376.
- "Polk's." (For Juice of Grapefruit.) J. T. Polk Company. No. 22,840; Mar. 29; v. 284; p. 956.
- "Polly-Anna." (For Shortening.) W. S. Forbes & Co., Inc. No. 22,426; Jan. 25; v. 282; p. 739.
- "Polly Tech." (For Ice-Cream.) Tech Food Products Co. No. 23,711; Nov. 22.
- "Pollyanna Ready to Make Doll Clothes Sets." (For Doll-Clothes.) Reitman Mfg. Co. No. 22,921; May 24; v. 286; p. 860.
- "Poms Sweet Chocolate." (For Sweet Chocolate.) Pennsylvania Chocolate Company. No. 22,552; Feb. 8; v. 283; p. 361.
- "Poppy Design." (For Hairpins.) Sterling Pin Company. No. 22,562; Feb. 8; v. 283; p. 361.
- "Populaire." (For Cigars.) N. Weiss. No. 23,437; Sept. 13; v. 290; p. 431.
- "Port Syrup." (For Syrups for Mixing Soft Drinks.) Monarch Bitters Co. No. 23,096; July 5; v. 288; p. 202.
- "Porto Rico Juciful Grapefruit." (For Grapefruit.) Porto Rico Consolidated Fruit Company. No. 23,322; Aug. 30; v. 289; p. 1020.
- "Porto Rico Juciful Oranges." (For Oranges.) Porto Rico Consolidated Fruit Company. No. 23,324; Aug. 30; v. 289; p. 1020.
- "Porto Rico Juciful Pineapple." (For Pineapples.) Porto Rico Consolidated Fruit Company. No. 23,323; Aug. 30; v. 289; p. 1020.
- "Potato." (For Bread.) Saniwax Paper Co. No. 23,402; Sept. 6; v. 290; p. 224.
- "Potomac Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,378; Sept. 6; v. 290; p. 224.
- "Prairie Gold Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,914; May 24; v. 286; p. 860.
- "Premex." (For Malt Syrup.) Premier Malt Products Co. of Ohio. No. 23,234; Aug. 23; v. 289; p. 797.
- "Premier Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,083; July 5; v. 288; p. 201.
- "Presto Metal Polish." (For Bottled Metal-Polish.) Mrs. K. Camp. No. 23,524; Oct. 25.
- "Pride Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,492; Feb. 1; v. 283; p. 179.
- "Pride of Ohio." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,563; Oct. 25.
- "Princess Hair Net." (For Hair-Nets.) Sugerman Bros. No. 23,503; Oct. 18.
- "Princess Hair Pins." (For Boxes and Packages Containing Hairpins.) A. E. Oppenheimer & Bro. No. 23,396; Sept. 6; v. 290; p. 224.
- "Princess Hats." (For Ladies' and Children's Hats.) Gould Millinery Co. Inc. No. 22,900; May 24; v. 286; p. 860.
- "Professional." (For Hair-Nets.) Frankel & Smith, Inc. No. 23,801; Dec. 20.
- "Protexu." (For Brooms.) National Broom Manufacturing Association. No. 22,497; Feb. 1; v. 283; p. 179.
- "Prunes From Los Gatos." (For Boxes of Prunes.) F. Wm. Kemling Co. No. 23,421; Sept. 13; v. 290; p. 431.
- "Pruno-Lax." (For Laxatives.) M. Morvillo. No. 23,751; Dec. 13.
- "Prunola." (For Containers or Cartons Containing Prunola, a Preparation of Sundried Olives and Prunes.) Carque Pure Food Company. No. 23,520; Oct. 25.
- "Pure Bland Soap." (For Toilet Soap.) Harriet Hubbard Ayer. No. 23,266; Aug. 30; v. 289; p. 1019.
- "Pure Fresh Grated Horse Radish." (For Bottles or Jars of Horse-Radish.) Sittler Brothers. No. 23,766; Dec. 13.
- "Pure Spring Water from Valley Forge Springs." (For Spring-Water.) M. A. Barr. No. 22,719; Mar. 22; v. 284; p. 753.
- "Pure Sugar Stick Candy." (For Stick-Candy.) National Paper Candy Company, The. No. 23,392; Sept. 6; v. 290; p. 224.
- "Pure Tar Soap Shampoo." (For Preparations for Cleaning the Hair.) Harriet Hubbard Ayer. No. 23,182; Aug. 23; v. 289; p. 796.
- "Pureza." (For Condensed Milk.) Juan & McCormack. No. 23,117; July 12; v. 288; p. 430.
- "Puritan Malt Sugar Syrup." (For Malt-Sugar Syrup.) J. E. Magnus. No. 23,478; Oct. 18.
- "Purity." (For Malt Extract.) York Hops, Malt & Malt Extract Co. No. 22,525; Feb. 1; v. 283; p. 179.
- "Purity Brand Beverage Coloring." (For Extracts for Coloring Beverages.) Purity Malt Extract Co. No. 23,642; Nov. 8.
- "Purity Brand Bohemian Malt Extract." (For Extracts for Food and Beverage Purposes.) Purity Malt Extract Co. No. 23,641; Nov. 8.
- "Purity Brand Domestic Malt Extract Light." (For Extracts for Food and Beverage Purposes.) Purity Malt Extract Co. No. 23,645; Nov. 8.
- "Purity Brand Imported Bohemian Hops." (For Hops.) Purity Malt Extract Co. No. 23,643; Nov. 8.
- "Purity Brand Root Beer Extract." (For Extracts for Beverage Purposes.) Purity Malt Extract Co. No. 23,644; Nov. 8.
- "Purity Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,040; June 28; v. 287; p. 783.
- "Py-E-Ta." (For a Mixture for Filling Pies and Making other Desserts.) Wolverine Spice Company. No. 22,941; May 24; v. 286; p. 861.
- "Pyrokuro." (For a Liquid Preparation Intended for the Treatment of Bleeding Gums.) Pyrokuro Company. No. 22,920; May 24; v. 286; p. 860.
- "Quaker Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,381; Sept. 6; v. 290; p. 224.
- "Quality." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) Fort Howard Paper Company. No. 22,958; May 31; v. 286; p. 1057.
- "Quality Bread." (For Wax-Paper Wrappers Containing Bread.) Menasha Printing and Carton Company. No. 23,008; June 14; v. 287; p. 403.
- "Quality First Louisiana Brand Klondykes." (For Strawberries.) T. F. Gessner. No. 23,198; Aug. 23; v. 289; p. 796.
- "Queen." (For Bottles and Packages of Hair-Dressing.) Newbro Manufacturing Company. No. 23,230; Aug. 23; v. 289; p. 797.
- "Queen Anne Soap." (For Soap.) Lautz Bros. & Co. No. 23,005; June 14; v. 287; p. 403.
- "Queen of Paris." (For Cigars.) Paris Cigar Company. No. 23,233; Aug. 23; v. 289; p. 797.
- "Quick-Gro Plant Food." (For Plant Food.) E. G. Steitz. No. 23,015; June 14; v. 287; p. 403.
- "Quintaline." (For an Ointment for Congested and Inflammatory Conditions.) Quintaline Co. of Am. No. 23,857; Dec. 27.



*Alphabetical list of labels—Continued.*

- "R. M. Wash Boiler—Helps Make the Perfect Wash Day—Reliably Made by Hand." (For Washboilers.) Republic Metalware Company, The. No. 23,399; Sept. 6; v. 290; p. 224.
- "Radia." (For Automobile Accessories.) T. C. Young. No. 22,526; Feb. 1; v. 283; p. 179.
- "Rainbow." (For Cartons Containing Jar Rubbers.) United States Rubber Company. No. 23,243; Aug. 23; v. 289; p. 797.
- "Rainbow Kisses." (For Candy Kisses.) H. W. Faulkner. No. 22,465; Feb. 1; v. 283; p. 178.
- "Rainier." (For Malt-Syrup.) O. E. Maurer. No. 22,823; Mar. 29; v. 284; p. 955.
- "Ralston a Wheat Food." (For Cereal Foods.) Ralston Purina Company. No. 22,586; Feb. 15; v. 283; p. 549.
- "Ralston a Wheat Food." (For Cereal Food.) Ralston Purina Company. No. 23,046; June 28; v. 287; p. 783.
- "Ranney's Admiration Chocolates Assorted." (For Boxes Containing Chocolate Candles.) P. B. Bendix. No. 22,795; Mar. 29; v. 284; p. 955.
- "Ras Mangascia." (For Tonic for Hair and Scalp.) Pasquale Ruggiano. No. 22,877; May 3; v. 286; p. 197.
- "Rastus 7—11." (For Candy.) E. J. Brack and Sons. No. 23,414; Sept. 13; v. 290; p. 431.
- "Rat Fire." (For a Rat-Poison.) P. S. Frick. No. 23,071; July 5; v. 288; p. 201.
- "Raymal." (For Canned Loganberries.) Ray-Maling Co. No. 22,500; Feb. 1; v. 283; p. 179.
- "Re-Election." (For Cigars.) S. Engelman. No. 22,727; Mar. 22; v. 284; p. 753.
- "Re Ju-Tonic." (For a Preparation in Powder Form for a Stimulating Tonic for the Blood and Nerves.) A. Reich. No. 22,922; May 24; v. 286; p. 860.
- "Re Manufactured Machine Tools." (For Remanufactured Machines, Tools, and Parts Thereof.) Hill, Clark & Co. No. 22,868; May 3; v. 286; p. 197.
- "Re-Nown Hair Nets." (For Hair Nets.) The York Import Company. No. 22,421; Jan. 18; v. 282; p. 563.
- "Real Silk Fashioned Hosiery." (For Containers for Hosiery.) Real Silk Hosiery Mills. Nos. 23,759—60; Dec. 13.
- "Real Silk Hose." (For Containers for Hose.) Real Silk Hosiery Mills. No. 23,761; Dec. 13.
- "Red Arrow Brand." (For Citrus Fruits.) Shamie Bros. No. 23,146; July 26; v. 288; p. 827.
- "Red Bar." (For Concentrated Tomato Paste.) Italian Food Products Company. No. 22,628; Mar. 8; v. 284; p. 375.
- "Red Cedar." (For Canned Peas.) Inderrieden Canning Co. No. 23,625; Nov. 8.
- "Red-D-Cut Macaroni." (For Macaroni.) Pfaffmann Egg Noodle Co. No. 23,758; Dec. 13.
- "Red Diamond." (For Cans Containing Tomatoes.) Gilmer Incorporated. No. 22,732; Mar. 22; v. 284; p. 753.
- "Red Lion." (For Laundry Soap.) Wm. N. Minish & Son. No. 23,690; Nov. 22.
- "Red Mark." (For Macaroni.) Globe Grain & Milling Company. No. 22,539; Feb. 8; v. 283; p. 361.
- "Red Rose." (For Talcum Powder.) Harriet Hubbard Ayer. No. 23,265; Aug. 30; v. 289; p. 1019.
- "Red Seal Brand." (For Malt-Extract Syrup.) E. Goldschmid and L. Lehman. No. 22,961; May 31; v. 286; p. 1057.
- "Red Seal Pure Wool Powder Puffs." (For Powder Puffs.) Morris, Mann & Reilly. No. 23,391; Sept. 6; v. 290; p. 224.
- "Red Seal Rubber Baby Pants." (For Baby-Pants.) Morris, Mann & Reilly. No. 23,428; Sept. 13; v. 290; p. 431.
- "Red Stick Coffee." (For Coffee.) F. Danna. No. 23,196; Aug. 23; v. 289; p. 796.
- "Red Top." (For Tin Cans Containing Malt Extracts.) Red Top Malt Extract Co. No. 23,495; Oct. 18.
- "Redibak." (For Malt Extract.) G. Loewus & Co. No. 23,557; Oct. 25.
- "Reedley." (For Canned Apricots.) Reedley Canning Co. No. 23,012; June 14; v. 287; p. 403.
- "Reelegg Eggs in Powdered Form." (For Eggs in Powdered Form.) Empire Food Products Company. No. 23,454; Oct. 18.
- "Referendum." (For Malt.) Ye Olden Times Company. No. 22,942; May 24; v. 286; p. 861.
- "Regina Hair Net." (For Hair-Nets.) S. Glemby's Sons Co., Inc. No. 23,461; Oct. 18.
- "Regina Hair Nets." (For Hair-Nets.) S. Glemby. No. 23,287; Aug. 30; v. 289; p. 1019.
- "Renovatore Hair Tonic." (For Hair-Tonic.) J. H. Pye. No. 22,841; Mar. 29; v. 284; p. 956.
- "Renuzit." (For Containers Containing Furniture Cleaner and Dressing.) Peninsular Chemical Co. No. 22,979; May 31; v. 286; p. 1058.
- "Rex Fibre Wrapping." (For Wrapping-Paper.) Dexter Sulphite Pulp & Paper Co. No. 22,581; Feb. 15; v. 283; p. 549.
- "Rice." (For a Rice Food.) Rice Products Co. Inc. No. 23,496; Oct. 18.
- "Ridernet." (For Hair-Nets.) S. A. Rider Company. No. 23,699; Nov. 22.
- "Rieck McJunkin Private Brand Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,637; Mar. 8; v. 284; p. 375.
- "Rieck's Private Brand Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,640; Mar. 8; v. 284; p. 375.
- "Rieck's Private Brand Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,643; Mar. 8; v. 284; p. 375.
- "Rieck's Special Brick." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,642; Mar. 8; v. 284; p. 375.
- "Right Good Fit." (For Boys' Clothing.) L. Robinson & Co. Inc. No. 22,555; Feb. 8; v. 283; p. 361.
- "Right House, Right Goods, Right Prices." (For Hosiery, Underwear, and Knit Goods.) Schott Brothers. No. 23,573; Oct. 25.
- "Rivet Shank Buttons." (For Buttons.) Appelbee & Neuman, Inc. No. 23,510; Oct. 25.
- "Robert Vernon." (For Cigars.) A. C. Henschel & Company. No. 22,814; Mar. 29; v. 284; p. 955.
- "Roberts' Hair Fertilizer." (For Treatment of Scalp Diseases and for Growing Hair.) C. J. Roberts. No. 22,502; Feb. 1; v. 283; p. 179.
- "Robin Brand Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,038; June 28; v. 287; p. 783.
- "Rob't. Brunswick Brand Malt Extract." (For Packages, Bottles, and Cartons Containing Malt Extract Known as Rob't. Brunswick Brand Malt Extract.) R. Brunswick. No. 22,721; Mar. 22; v. 284; p. 753.
- "Rochester Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,652; Mar. 8; v. 284; p. 376.
- "Rooster Brand." (For Coffee.) R. S. Linton. No. 22,971; May 31; v. 286; p. 1057.
- "Rosalie." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,309; Aug. 30; v. 289; p. 1020.
- "Rose City Mixed Paint." (For Mixed Paints.) Superior Builders Supply Co. No. 23,017; June 14; v. 287; p. 403.
- "Rosemary." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,305; Aug. 30; v. 289; p. 1020.
- "Rosy Dep-Urants." (For Containers for a Cathartic Drug Preparation in Tablet Form.) Phoenix Drug Co. No. 23,321; Aug. 30; v. 289; p. 1020.
- "Rouge Compact 400." (For Rouge in the Form of Compacts.) Harriet Hubbard Ayer. No. 23,512; Oct. 25.
- "Rouge Compact 200." (For Rouge in the Form of Compacts.) Harriet Hubbard Ayer. No. 23,514; Oct. 25.
- "Rouge Compact 300." (For Rouge in the Form of Compacts.) Harriet Hubbard Ayer. No. 23,515; Oct. 25.
- "Rouge Compact 500." (For Rouge in the Form of Compacts.) Harriet Hubbard Ayer. No. 23,516; Oct. 25.
- "Rouge Compact 600." (For Rouge in the Form of Compacts.) Harriet Hubbard Ayer. No. 23,517; Oct. 25.
- "Royal." (For Tin Cans Containing Malt Extract.) M. E. Krause. No. 23,674; Nov. 22.
- "Royal Arch." (For Grapes.) Owens & Collins Co. No. 23,695; Nov. 22.
- "Royal Marble Cleaner." (For Cans Containing Royal Marble-Cleaner.) B. Heller & Co. No. 23,029; June 28; v. 287; p. 783.
- "Royal Metal Polish." (For Boxes Containing Royal Metal Polish.) B. Heller & Co. No. 23,022; June 21; v. 287; p. 592.
- "Royal Purple Pennyroyal Female Pills." (For Boxes Containing a Medicine for Treatment of Delayed Menstruation, for Painful Menses, Relieving Burning and Chafing.) First National Pharmacy. No. 23,846; Dec. 27.
- "Royal Russet Black Jack Cider." (For Cider.) Medina Fruit Products Co. No. 22,748; Mar. 22; v. 284; p. 753.
- "Royal Scottish Golf Co., Limited Standard Ball." (For Cardboard Boxes Containing Golf-Balls.) Royal Scottish Golf Co. Limited. No. 23,401; Sept. 6; v. 290; p. 224.
- "Rubber-Float." (For Flotation Devices.) I. B. Kleinert Rubber Company. No. 22,743; Mar. 22; v. 284; p. 753.
- "Rubber Shoe Repair Patch." (For Repair-Patches for Rubber Footwear.) Robertson & Sons Shoe Repairers. No. 23,098; July 5; v. 288; p. 202.
- "Ruby Red." (For Pomegranates.) Lindsay-Strathmore Pomegranate Ass'n. No. 23,807; Dec. 20.
- "Runwel." (For Twisted Packing for Valve-Stems.) Greene, Tweed & Co. No. 23,463; Oct. 18.
- "Rusalka 'Queen of the Sengs.'" (For Hair-Net Envelopes.) M. E. Kantor. No. 23,631; Nov. 8.
- "Ryans' Van-Rouge." (For a Fruit Beverage.) Van Rouge Co., Inc. No. 23,610; Nov. 1.
- "Saazer Bohemian Style." (For Malt-Syrup.) C. F. Urhel. No. 22,850; Mar. 29; v. 284; p. 956.
- "Safford Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,036; June 28; v. 287; p. 783.
- "Salad Dressing." (For Salad-Dressing.) Van Camp Packing Company. No. 22,682; Mar. 8; v. 284; p. 377.
- "Sal-Li-Lax." (For Medicines for Disorders of the Stomach, Liver, and Bowels.) J. Burns. No. 23,346; Sept. 6; v. 290; p. 223.
- "Sally." (For Cigars.) G. L. Schulz. No. 23,765; Dec. 13.



## Alphabetical list of labels—Continued.

- "Salted Krispeanuts." (For Peanuts.) Lummis and Company. No. 22,696; Mar. 15; v. 284; p. 588.
- "Salvex." (For Containers of a Dentifrice.) B. E. Turney. No. 22,680; Mar. 8; v. 284; p. 377.
- "Samsoneet, the Strength is in the Hair." (For Hair-Nets.) S. Glemby's Sons Co. No. 23,284; Aug. 30; v. 289; p. 1019.
- "San Marino Brand Pure Olive Oil." (For Cans for Containing Oil.) Colonial Can Co. No. 22,424; Jan. 25; v. 282; p. 739.
- "Sanatory." (For Toilet-Paper, Being Applied to the Packages Containing the Same.) May Department Stores Company. No. 23,373; Sept. 6; v. 290; p. 224.
- "Sanger's Pro-Tek-Tubes Prophylactic." (For a Preventive for Venereal Diseases.) E. J. Moore Sons. No. 22,915; May 24; v. 286; p. 860.
- "Sanitary Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,660; Mar. 8; v. 284; p. 376.
- "Sanitary Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,387; Sept. 6; v. 290; p. 224.
- "Sans Pareil." (For Shampoo.) H. H. Mather. No. 22,746; Mar. 22; v. 284; p. 753.
- "Santonex Compacted Face Powders." (For Receptacles and Packages Containing Compacted Face-Powders.) International Consolidated Chemical Corporation. No. 23,208; Aug. 23; v. 289; p. 796.
- "Saphanol." (For an Aromatic Germicidal Antiseptic Preparation.) Saphanol Products Co. No. 22,413; Jan. 18; v. 282; p. 563.
- "Sargent Paint." (For Paint.) Sargent-Gerke Co., The. No. 23,100; July 5; v. 288; p. 202.
- "Sauer's the National Extract." (For Flavoring Extracts and Flavors.) C. F. Sauer Company. No. 22,507; Feb. 1; v. 283; p. 179.
- "Savo for the Laundry." (For a Washing-Powder.) Gale-Evans Company. No. 22,731; Mar. 22; v. 284; p. 753.
- "Savon De Toilette Tokalon." (For Receptacles and Packages Containing Toilet Soap.) International Consolidated Chemical Corporation. No. 23,209; Aug. 23; v. 289; p. 797.
- "Scalp-Tone for Dandruff." (For a Container of a Scalp-Tonic for Dandruff.) G. A. Finkelman. No. 22,621; Mar. 8; v. 284; p. 375.
- "Scalpinol." (For Hair Tonic and Invigorant.) Harriet Hubbard Ayer. No. 23,263; Aug. 30; v. 289; p. 1019.
- "Schnarr's Spray Formula." (For Materials Employed in Spraying Vegetation.) J. Schnarr & Company. No. 23,499; Oct. 18.
- "Schoolboy." (For Table-Syrup.) Smith-Davis Company Inc. No. 22,776; Mar. 22; v. 284; p. 754.
- "Schuler Chocolates." (For Chocolates.) Schuler Chocolate Factory. No. 22,773; Mar. 22; v. 284; p. 754.
- "Schwab's Nature Soap." (For Toilet Soap.) A. Schwab. No. 23,703; Nov. 22.
- "Schwindeler's Quality Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,638; Mar. 8; v. 284; p. 375.
- "Scout Suckers." (For Candy Suckers.) H. W. Faulkner. No. 22,464; Feb. 1; v. 283; p. 178.
- "Screen Wire Cloth." (For Screen Wire-Cloth.) American Wire Fabrics Company. No. 23,257; Aug. 30; v. 289; p. 1019.
- "Sealpax." (For Underwear for Men.) Oppenheim, Obernordf & Co. No. 22,834; Mar. 29; v. 284; p. 956.
- "Security Brand." (For Canned Tuna Fish.) International Packing Corporation. No. 22,605; Mar. 1; v. 284; p. 180.
- "Seeds' Dressing." (For a Dressing for Floors, Interior Decorations, Automobiles.) F. E. Seeds. No. 23,433; Sept. 13; v. 290; p. 431.
- "Septol." (For Antiseptic Disinfectant Germicide.) Smith-Fans Drug Co. No. 22,848; Mar. 29; v. 284; p. 956.
- "Service Telephone Index." (For Indexed Blank Memorandum-Booklets to be Used as Telephone Memorandum-Records by Telephone Subscribers.) Frank A. Weeks Mfg. Co. No. 23,169; Aug. 9; v. 289; p. 409.
- "Servus Manufacturer Feeder." (For Animal and Poultry Feed.) Thomas-Boyce Direct Feed Company. No. 23,504; Oct. 18.
- "Seven Point." (For Hosiery.) Whitehead Hosiery Mills Inc. No. 23,582; Oct. 25.
- "Sha-Ko Mechanics Antiseptic Hand Soap Powder." (For Hand Soap Powder.) United Stores Supply Co. No. 23,330; Aug. 30; v. 289; p. 1020.
- "Shedd Brand Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,825; Mar. 29; v. 284; p. 956.
- "Sherry Syrup." (For Syrups for Mixing Soft Drinks.) Monarch Bitters Co. No. 23,095; July 5; v. 288; p. 202.
- "Sherwood Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,873; May 3; v. 286; p. 197.
- "Shrine of Dreams." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,667; Mar. 8; v. 284; p. 376.
- "Shurdone." (For Cake-Testing Straws.) P. H. Howard. No. 23,623; Nov. 8.
- "Shutters Fudge." (For Candy.) Shutter-Johnson Candy Company. No. 22,856; Apr. 19; v. 285; p. 570.
- "Silver Gloss Laundry Soap." (For Soap.) A. Hoefner & Sons. No. 23,364; Sept. 6; v. 290; p. 223.
- "Silver Lake." (For Cake.) United States Foil Company. No. 23,329; Aug. 30; v. 289; p. 1020.
- "Silverine." (For Toilet-Paper.) C. R. White. No. 23,780; Dec. 13.
- "Silverkist Syrup." (For Containers for Table-Syrup.) American Sugar Products Corporation. No. 23,443; Oct. 18.
- "Simmons Mattress." (For Mattresses.) Simmons Company. No. 23,704; Nov. 22.
- "Sister Susie." (For Boxes, Packages, or Envelops Containing Hair-Nets.) The B. Frankel Co. Inc. No. 23,665; Nov. 22.
- "16." (For Cards for a Game.) B. & T. Engineering and Sales Co. No. 23,189; Aug. 23; v. 289; p. 796.
- "Skin & Tissue Builder." (For Preparations for the Skin and Tissues and Massage-Cream.) Harriet Hubbard Ayer. Nos. 23,154-5; Aug. 9; v. 289; p. 409.
- "Skin and Tissue Builder." (For Preparation for the Skin and Tissues and Massage-Cream.) Harriet Hubbard Ayer. No. 23,269; Aug. 30; v. 289; p. 1019.
- "Skin Whitener." (For a Preparation for Whiteness the Skin.) Harriet Hubbard Ayer. No. 23,270; Aug. 30; v. 289; p. 1019.
- "Skippers." (For Felt Shoes.) Federal Overgaiter Company. No. 22,728; Mar. 22; v. 284; p. 753.
- "Smile." (For Roasted Coffee.) Smile Company. No. 23,240; Aug. 23; v. 289; p. 797.
- "Smiling Baby." (For Infants' Bath-Robes.) Federal Underwear Co. No. 23,125; July 26; v. 288; p. 827.
- "Smith Smart Shoes." (For Shoes.) J. P. Smith Shoe Co. No. 23,105; July 5; v. 288; p. 202.
- "Smiths Prescription #711." (For a Medicinal Preparation for the Treatment of Bladder, Kidney, and Allied Troubles and Genital Affections.) Columbus Chemical Company. No. 22,954; May 31; v. 286; p. 1057.
- "Snip-Ettes." (For Silhouettes.) B. H. Scotford. No. 22,774; Mar. 22; v. 284; p. 754.
- "Snow." (For Receptacles Containing Snow, a Preparation for Use in the Manufacture of Ice-Cream.) B. Heller & Co. No. 23,136; July 26; v. 288; p. 827.
- "Snow Drop." (For Foot-Salve.) L. L. E. Pedrick. No. 23,489; Oct. 18.
- "Snowdrift." (For Preparations for Increasing the Brilliance and Removing the Yellowness from White or Gray Hair.) Harriet Hubbard Ayer. No. 23,338; Sept. 6; v. 290; p. 223.
- "Snowflake Crepe." (For Toilet-Paper, Paper Napkins, Towels, and Table-Cloths.) Fort Howard Paper Company. No. 22,959; May 31; v. 286; p. 1057.
- "Snowwhite." (For Clothing, Walls, Woodwork, &c., for Cleaning Purposes.) Household Products Company. No. 23,004; June 14; v. 287; p. 403.
- "Soft as a Kiss." (For Safety-Razors.) Gem Safety Razor Corporation. No. 22,536; Feb. 8 v. 283; p. 361.
- "Some!!!" (For Cake.) H. V. Walters. No. 23,579; Oct. 25.
- "Some!!!" (For Popcorn.) H. V. Walters. No. 22,777; Mar. 22; v. 284; p. 754.
- "Sonora." (For Cigars.) C. B. Henschel Manufacturing Company. No. 23,538; Oct. 25.
- "Sophomore." (For Cigars.) Trans-Pacific Trading Company. No. 22,416; Jan. 18; v. 282; p. 563.
- "Sowega." (For Watermelons.) Southwest Georgia Watermelon Growers Association. No. 23,500; Oct. 18.
- "Spark-C." (For Electrical Apparatus, Machinery, and Supplies, Particularly Potential Detectors.) Westinghouse Lamp Company. No. 23,778; Dec. 13.
- "Spearmintz." (For a Drink.) "Spearmintz" Co. No. 22,844; Mar. 29; v. 284; p. 956.
- "Spell-Wood." (For a Game to Teach the Art of Spelling and Consisting of Pieces Bearing the Letters of the Alphabet.) G. O. Woods. No. 22,852; Mar. 29; v. 284; p. 956.
- "Sports." (For Hosiery.) H. I. Williams. No. 23,251; Aug. 23; v. 289; p. 797.
- "Spring-Eez." (For Rust-Solvent Lubricant.) Halstead Specialties Co. No. 23,465; Oct. 18.
- "Square Deal Jewelers." (For Watches, Jewelry, and Diamonds.) Miller Bros. No. 23,811; Dec. 20.
- "Standard Golden Ointment." (For Ointment.) C. A. Bell. No. 22,422; Jan. 25; v. 282; p. 739.
- "Stanford." (For Dried Prunes.) O. A. Hanlan & Co. No. 22,901; May 24; v. 286; p. 860.
- "Stansbery Wonder Salve." (For Labels Placed Around Containers Holding Said Salve.) M. E. White. No. 23,051; June 28; v. 287; p. 783.
- "Stark Step Cut Quick Seating Oilless Piston Ring." (For Packages Containing Piston-Rings.) Stark-Inland Machine Works. No. 22,845; Mar. 29; v. 284; p. 956.
- "Starley's Rheumatic Remedy." (For a Remedy for Rheumatism.) Starley Drug Company. No. 23,119; July 12; v. 288; p. 430.
- "State Highway." (For Cigar-Boxes for Cigars.) K. Andersen. No. 23,719; Dec. 13.



*Alphabetical list of labels—Continued.*

- "Steers Better, Stops the Rattle, Saves Worn Knuckles." (For Antirattlers for Motor-Vehicles.) F. G. Withrow. No. 22,447; Jan. 25; v. 282; p. 739.
- "Sterling Dairy Feed." (For Bags of Dairy Feed.) Northrup, King & Co. No. 23,318; Aug. 30; v. 289; p. 1020.
- "Sterling Egg Mash." (For Bags of Poultry Feed.) Northrup, King & Co. No. 23,320; Aug. 30; v. 289; p. 1020.
- "Sterling Scratch Feed." (For Bags of Poultry Feed.) Northrup, King & Co. No. 23,319; Aug. 30; v. 289; p. 1020.
- "Stevens Brocade Bedspread." (For Bedspreads.) Stevens Manufacturing Co. No. 22,934; May 24; v. 286; p. 861.
- "Stevens Crochet Bedspread." (For Bedspreads.) Stevens Manufacturing Co. No. 22,932; May 24; v. 286; p. 861.
- "Stevens Durée Bedspread." (For Bedspreads.) Stevens Manufacturing Co. No. 22,935; May 24; v. 286; p. 861.
- "Stevens Kros Stitch Bed-Spread." (For Bedspreads.) Stevens Manufacturing Co. No. 23,107; July 5; v. 288; p. 202.
- "Stevens Novelite Bedspread." (For Bedspreads.) Stevens Manufacturing Co. No. 23,604; Nov. 1.
- "Stevens Satin Bedspread." (For Bedspreads.) Stevens Manufacturing Co. No. 22,933; May 24; v. 286; p. 861.
- "Stick Quick." (For Gummed Paper and Cloth.) Mid-States Gummed Paper Co. No. 23,601; Nov. 1.
- "Strawberillade." (For a Spread of Strawberry Flavor for Bread, Toast, and Muffins.) Welch Grape Juice Company. No. 22,939; May 24; v. 286; p. 861.
- "Sugared Pecans." (For Candy.) Norris, Inc. No. 22,875; May 3; v. 286; p. 197.
- "Sugarmelons." (For Watermelons.) North American Fruit Exchange. No. 22,668; Mar. 8; v. 284; p. 376.
- "Sun River Ointment." (For Ointment.) Sun River Chemical Company. No. 23,108; July 5; v. 288; p. 202.
- "Sun-Seal Sunnycorn." (For a Breakfast Cereal Made of Corn.) Patent Cereals Company. No. 23,432; Sept. 13; v. 290; p. 431.
- "Sundial Chocolates." (For Boxes Containing Cream Caramels, Nut Centers, Chewing-Chocolates, and Mellow Centers.) Milwaukee Paper Box Company. No. 23,307; Aug. 30; v. 289; p. 1020.
- "Sunflower." (For Oranges.) Mutual Orange Distributors. No. 23,814; Dec. 20.
- "Sunrise." (For Bread.) Saniwax Paper Co. No. 22,505; Feb. 1; v. 283; p. 179.
- "Sunset Nut-Margarine." (For Cartons Containing Oleomargarin.) Menasha Printing and Carton Company. No. 23,141; July 26; v. 288; p. 827.
- "Superfine Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 22,489; Feb. 1; v. 283; p. 178.
- "Superior Service." (For Paper Toweling.) Apex Paper Manufacturing Company, Inc. No. 23,788; Dec. 20.
- "Superior Violet Ink." (For Writing and Copying Ink.) P. Furman. No. 22,865; May 3; v. 286; p. 197.
- "Supplee Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,384; Jan. 11; v. 282; p. 384.
- "Suprema Apples." (For Apples.) Colorado Packing Corporation. No. 22,576; Feb. 15; v. 283; p. 549.
- "Suprema Apricots." (For Apricots.) Colorado Packing Corporation. No. 22,574; Feb. 15; v. 283; p. 549.
- "Suprema Peaches." (For Peaches.) Colorado Packing Corporation. No. 22,577; Feb. 15; v. 283; p. 549.
- "Suprema Pears." (For Pears.) Colorado Packing Corporation. No. 22,579; Feb. 15; v. 283; p. 549.
- "Suprema Pitted Red Cherries." (For Pitted Red Cherries.) Colorado Packing Corporation. No. 22,575; Feb. 15; v. 283; p. 549.
- "Suprema Sweet Apple Cider." (For Sweet Apple Cider.) Colorado Packing Corporation. No. 22,578; Feb. 15; v. 283; p. 549.
- "Supreme." (For Cigars.) Supreme Cigar Company. No. 22,504; Feb. 15; v. 283; p. 549.
- "Supreme Quality Bon Ton Corsets, the Most Fashionable and Perfect Fitting Corsets." (For Boxes in Which Corsets are Packed.) Royal Worcester Corset Co. No. 23,571; Oct. 25.
- "Swanee Bacon." (For Packaged Bacon.) Joseph Stern & Sons, Inc. No. 23,650; Nov. 8.
- "Sweet Grenus." (For a Prepared Cereal Food.) E. Berliner. No. 23,056; July 5; v. 288; p. 201.
- "Sweet Red Band Cider." (For Cider.) Medina Fruit Products Co. No. 22,747; Mar. 22; v. 284; p. 753.
- "Sweet's Salt Lake Brilliant Gloss Filled Candies." (For a Tin Containing Filled Candies.) Sweet Candy Co. No. 23,436; Sept. 13; v. 290; p. 431.
- "Sweetened Condensed Milk Jersey Brand." (For Cans and Containers in Which Such Product is Sold.) Little Falls Dairy Co. No. 22,892; May 17; v. 286; p. 644.
- "Sweetheart." (For Fresh Apples.) Denny & Co. No. 22,459; Feb. 1; v. 283; p. 178.
- "Sweetest Maid." (For Dessert Mints.) Sanitary Food Manufacturing Co. No. 22,503; Feb. 1; v. 283; p. 177.
- "Swiss Style Sweet Chocolate." (For Chocolate.) Van Camp Packing Company. No. 22,936; May 24; v. 286; p. 861.
- "Sylpho-Nathol." (For a Disinfectant.) The Sulpho-Napthol Company. No. 22,415; Jan. 18; v. 282; p. 563.
- "T. N. O. Metal Polish." (For Metal-Polish for Silver, Brass, Copper, and Nickel.) G. W. Nevin. No. 23,568; Oct. 25.
- "Table Pride." (For Bread.) Saniwax Paper Co. No. 22,558; Feb. 8; v. 283; p. 361.
- "Taggart's Wonder Bread." (For Bread.) Taggart Baking Company. No. 23,775; Dec. 13.
- "Tailored-Ready Art Clothes." (For Clothing.) Sanders and Weinstein. No. 23,764; Dec. 13.
- "Tanaline." (For Receptacles Containing Tanaline, a Preparation for Tanning Animal Skins.) B. Heller & Co. No. 23,166; Aug. 9; v. 289; p. 409.
- "Taylor's Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,659; Mar. 8; v. 284; p. 376.
- "Tch U Blocks." (For Educational Blocks.) E. Bratton. No. 23,522; Oct. 25.
- "Telling's Ice Cream Belle Vernon." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,385; Sept. 6; v. 290; p. 224.
- "Telling's Ice Cream Dolly Madison." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,383; Sept. 6; v. 290; p. 224.
- "Telling's Ice Cream Martha Washington." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,384; Sept. 6; v. 290; p. 224.
- "Telling's Vanilla Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,386; Sept. 6; v. 290; p. 224.
- "Temptation Wine Grape Juice." (For Containers for Grape-Juice.) Interstate Products Co. No. 23,207; Aug. 23; v. 289; p. 796.
- "Teneo." (For Snap-Fasteners.) American Fastener Co. No. 23,052; July 5; v. 288; p. 201.
- "\$10,000 for a Match." (For Cigars.) W. Saqui. No. 22,925; May 24; v. 286; p. 860.
- "Ternshoo Softener." (For Compound for Softening Leather to Render the Same Flexible and Pliable.) Chas. W. Young & Co. No. 22,788; Mar. 22; v. 284; p. 754.
- "Terpo-Mentholene Comp." (For Treatment of Tuberculosis, Bronchial, Reflex Nervous Coughs, Whooping-Cough, Asthma, and Emphesema.) Ilaria Brothers. No. 22,816; Mar. 29; v. 284; p. 955.
- "Thacher Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,375; Sept. 6; v. 290; p. 224.
- "Thatcher's Quality." (For Wax-Paper Wrappers Containing Bread.) Menasha Printing and Carton Company. No. 22,434; Jan. 25; v. 282; p. 739.
- "The Ayeristocrat (of All)." (For Finishing Vanishing Non-Greasy Cream.) Harriet Hubbard Ayer. No. 23,337; Sept. 6; v. 290; p. 223.
- "The Box That Stands the Knocks." (For Wooden Boxes.) D. M. Goodwillie Company. No. 23,849; Dec. 27.
- "The Bull Dog Grip." (For Leather Goods, Traveling-Bags, and Suitcases.) S. Kornberg. No. 23,367; Sept. 6; v. 290; p. 223.
- "The Co-Operative Cigar." (For Cigars.) Milwaukee Co-Operative Cigar Company. No. 23,042; June 28; v. 287; p. 783.
- "The Cream of the Town Geo. K. Brown Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,224; Aug. 23; v. 289; p. 797.
- "The Cream Supreme." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,746; Dec. 13.
- "The D & L' Prescription 1920." (For a Compound Syrup of Hypophosphites.) Davis & Lawrence Company. No. 22,389; Jan. 18; v. 282; p. 563.
- "The Dont Worry Tire Patch." (For Patches Prepared for Use in Repairing Rubber Articles.) J. F. Duncan. No. 23,352; Sept. 6; v. 290; p. 223.
- "The Famous Agourouladon." (For Olive-Oil.) Moreas Importing & Exporting Co. No. 23,750; Dec. 13.
- "The Finest Chocolate in the World." (For Chocolate of Every Description.) Bachman Chocolate Manufacturing Co. No. 22,718; Mar. 22; v. 284; p. 753.
- "The Fire Paralyzer." (For Fire-Extinguishers.) Fire Paralyzer Works. No. 22,729; Mar. 22; v. 284; p. 753.
- "The Future President Starts to School." (For Gloves.) Morrison-Ricker Manufacturing Company. No. 22,550; Feb. 8; v. 283; p. 361.
- "The Game of Traps." (For a Game.) A. S. Witter. No. 23,614; Nov. 1.
- "The Gaynor Light Control." (For Electric Light-Control Switches.) Gaynor Manufacturing Company. No. 23,282; Aug. 30; v. 289; p. 1019.
- "The 'Gibbon' Shoe." (For Women's and Misses' Shoes and upon the Cartons Containing Same.) Barke-Gibbon Company. No. 22,614; Mar. 8; v. 284; p. 375.



## Alphabetical list of labels—Continued.

- "The Home-Made Box." (For Boxes Containing Chocolate Candies.) Frederick & Nelson. No. 23,592; Nov. 1.
- "The Home of Cinnamon Balls." (For Hard Candies, Such as Cinnamon-Balls, Butter-Balls, Fruit Tablets, &c.) Hohlweck Candy Co. No. 22,694; Mar. 15; v. 284; p. 588.
- "The House That Jack Built." (For Boxes Containing Doll-Houses.) Stoll & Edwards Co. Inc. No. 23,833; Dec. 20.
- "The House That Jack Built." (For Doll-Houses.) Stoll & Edwards Co. Inc. No. 23,708; Nov. 22.
- "The 'Incomparable' Spring Snap Dress Fastener." (For Spring Snap-Fasteners.) George Williams Company. No. 22,379; Jan. 11; v. 282; p. 384.
- "The Marvelous Eye Wash." (For Eye-Wash.) R. M. La Rock. No. 22,891; May 17; v. 286; p. 644.
- "The Noble Lady." (For Hair-Nets.) Samstag & Hilder Bros. No. 23,763; Dec. 13.
- "The Oil Kingdom." (For Oil-Proof Clothing.) Pickerill Rubber Company. No. 22,838; Mar. 29; v. 284; p. 956.
- "The Palace Cigar." (For Cigars.) H. Herman. No. 23,295; Aug. 30; v. 289; p. 1020.
- "The Prize." (For Chocolates.) D'Orlando Co. No. 23,621; Nov. 8.
- "The Royal Lady." (For Hair-Nets.) Samstag & Hilder Bros. No. 23,646; Nov. 8.
- "The Salvador Great Liquid For Cleaning Floors SD8." (For Bottles or Demijohns of the Salvador SD8.) A. Lucati. No. 23,854; Dec. 27.
- "The Salvador Renowned Liquid For Washing Clothes SD3." (For Bottles or Demijohns of the Salvador SD3.) A. Lucati. No. 23,855; Dec. 27.
- "The Smokers Gum." (For Chewing-Gum.) Nicomors Products Company. No. 23,429; Sept. 13; v. 290; p. 431.
- "The Success of the French Kitchen." (For Onion-Flavor Extract.) J. B. Rolle. No. 22,587; Feb. 15; v. 283; p. 549.
- "The Success of the French Kitchen." (For Garlic-Flavor Extract.) J. B. Rolle. No. 22,588; Feb. 15; v. 283; p. 549.
- "The Tell-Tale Book." (For Account-Books.) W. D. Smith. Nos. 23,325-6; Aug. 30; v. 289; p. 1020.
- "The Tiny Tot Soap." (For Soap.) Bauer & Black. No. 23,791; Dec. 20.
- "The Variety Package." (For Candy.) Norris, Inc. No. 22,763; Mar. 22; v. 284; p. 754.
- "The William Tell." (For Cigars.) E. C. Veillard. No. 22,596; Feb. 15; v. 283; p. 549.
- "The Winner." (For Toilet-Paper, Being Applied to the Package Containing the Same.) May Department Stores Company. No. 23,372; Sept. 6; v. 290; p. 224.
- "The Wizard." (For Educational Games and Toys.) Fulton Specialty Co. No. 23,458; Oct. 18.
- "This Cz-Ons." (For Food Products.) Baruch Corp. No. 22,454; Feb. 1; v. 283; p. 178.
- "Thora." (For Cigars.) Montgomery Cigar Company. No. 22,437; Jan. 25; v. 282; p. 739.
- "Thornton Mineral Water." (For Mineral Water.) Thornton Mineral Springs Company. No. 22,516; Feb. 1; v. 283; p. 179.
- "Three In One Malt Extract." (For Cans Containing Malt Extract Made of Malt, Hops, and Sugar.) H. D. Sterrick. No. 23,016; June 14; v. 287; p. 403.
- "Tint-O." (For Oleomargarin.) Baltimore Butterine Co. No. 22,529; Feb. 8; v. 283; p. 361.
- "Tip Top." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,747; Dec. 13.
- "Tipton-Berry's Guaranteed Mild Havana Pageant." (For Cigars.) The Tipton-Berry Cigar Co. No. 23,407; Sept. 6; v. 290; p. 225.
- "Toes-Up." (For Bottles Containing Toes-Up, a Fly-Destroyer.) B. Heller & Co. No. 22,810; Mar. 29; v. 284; p. 955.
- "Tokalon Eyebrow Pencils." (For Receptacles and Packages Containing Eyebrow-Pencils.) International Consolidated Chemical Corporation, Inc. No. 23,470; Oct. 18.
- "Tokalon Lip Rouge." (For Receptacles and Packages Containing Deep and Light Colored Lip-Rouges Known in the Trade as Fonce and Clair, Respectively.) International Consolidated Chemical Corporation, Inc. No. 23,673; Nov. 22.
- "Toloma." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,678; Nov. 22.
- "Tomato Paste." (For Tomato Paste.) Latorraca Bros. No. 23,741; Dec. 13.
- "Tooth Pick." (For Tobacco.) Christian Peper Tobacco Co. No. 22,951; May 31; v. 286; p. 1057.
- "Topaz Brand Malt Extract." (For Malt Extract.) E. Truthan. No. 23,410; Sept. 6; v. 290; p. 225.
- "Toscanox Box." (For a Cigar-Box.) State Leaf Tobacco Co. No. 23,014; June 14; v. 287; p. 403.
- "Totem Poles." (For Cartons or Boxes of Candies.) Brown & Haley. No. 23,842; Dec. 27.
- "Towle's Wigwam." (For Syrup.) Log Cabin Products Company, The. No. 23,081; July 5; v. 288; p. 201.
- "Trapps Fancy Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,562; Oct. 25.
- "Traymore Shirt." (For Shirts.) J. Freezer & Son. No. 22,730; Mar. 22; v. 284; p. 753.
- "Tri A Mint." (For Candy Confections.) E. C. Philipps. No. 23,820; Dec. 20.
- "Trilo Nuggets." (For Packages Containing Candy and Confectionery.) A. Olsen, Jr. No. 23,394; Sept. 6; v. 290; p. 224.
- "True Shape." (For Hosiery.) True Shape Hosiery Co. Nos. 22,564-5; Feb. 8; v. 283; p. 361.
- "True Shape." (For Hosiery.) True Shape Hosiery Co. No. 23,242; Aug. 23; v. 289; p. 797.
- "True Shape." (For Hosiery.) True Shape Hosiery Co. Nos. 23,488-9; Sept. 6; v. 290; p. 225.
- "True Shape." (For Hosiery.) True Shape Hosiery Co. No. 23,605; Nov. 1.
- "Tru-Lax." (For Boxes Containing True Chocolate Laxatives.) A. Blackstone. No. 23,272; Aug. 30; v. 289; p. 1019.
- "Trustment." (For Printed Matter, Insurance-Policies, Shares of Stock, Bonds, and other Certificates of Indebtedness.) F. J. Cooper. No. 23,124; July 26; v. 288; p. 827.
- "Tumble In' Sleeping Garments." (For Children's Flannelette Sleeping Garments.) Clawson & Wilson Company. No. 22,617; Mar. 8; v. 284; p. 375.
- "Turkey Trot Cigars." (For Boxes Containing Cigars.) F. H. Nuttleman. No. 23,010; June 14; v. 287; p. 403.
- "Turnkraft." (For Gimps.) Woodward & Cohey, Inc. No. 22,599; Feb. 15; v. 283; p. 549.
- "Two Bulldogs, Splendora Mills and a Descriptive Paragraph in English and Seven Foreign Languages." (For Sheetings and Drills.) P. C. Alexander. No. 23,584; Nov. 1.
- "Two In One." (For Hair-Nets.) S. S. Kresge Co. No. 23,214; Aug. 23; v. 289; p. 197.
- "2 in 1 Malt Extract." (For Cans Containing Malt Extract.) H. D. Sterrick. No. 22,983; May 31; v. 286; p. 1058.
- "Typeolene." (For a Liquid Preparation for Cleaning Typewriter-Type.) Peco Manufacturing Co. No. 22,670; Mar. 8; v. 284; p. 376.
- "Uncle Tom Shirt." (For Shirts.) Western Shirt Co. No. 23,333; Aug. 30; v. 289; p. 1020.
- "Unicum Real Human Hair Nets." (For Hair-Nets.) Theo H. Gary Co. No. 23,666; Nov. 22.
- "Unit Inks." (For Ink for Printers and Lithographers.) C. J. MacArthur. No. 23,638; Nov. 8.
- "U. S. Brand." (For Gravenstein Apples.) G. A. Ross. No. 23,700; Nov. 22.
- "United States Panama Canal Cigar." (For Cigars.) H. & G. Metzner. No. 23,390; Sept. 6; v. 290; p. 224.
- "U-No-Me." (For Cigars and Boxes Containing Same.) V. Moreau. No. 22,978; May 31; v. 286; p. 1058.
- "Unkist Honey." (For Honey.) J. C. McCubbin. No. 22,976; May 31; v. 286; p. 1058.
- "Uyratis." (For a Medicinal Preparation.) Uyratis Co. No. 23,331; Aug. 30; v. 289; p. 1020.
- "Vacuum-Brand Garlic Compound." (For Cans Containing Vacuum Brand Garlic Compound, a Seasoning Product.) B. Heller & Co. No. 22,906; May 24; v. 286; p. 860.
- "Valley Forge Special." (For a Non-Alcoholic Cereal Beverage.) A. Scheidt Beverage Company. No. 22,566; Feb. 15; v. 283; p. 549.
- "Valminzo." (For Containers for an Ointment for the Treatment of Burns and Scalds, Piles, Sore Eyes, Eczema, Blood-Poison, Sore Mouth, Chronic or Old Sores, Ulcers, Insect-Bites, Inflammation or Irritation of Any Part of the Body.) M. F. Street & Co. No. 22,881; May 3; v. 286; p. 197.
- "Van Camp's Almond Sweet Milk Chocolate." (For Almond Sweet-Milk Chocolate.) Van Camp Packing Company. No. 22,937; May 24; v. 286; p. 861.
- "Van Ruba Calf." (For Calf-Leather.) Barnet Leather Co. Inc. No. 23,445; Oct. 18.
- "Van Sant." (For Cigars.) A. C. Henschel & Company. No. 22,813; Mar. 29; v. 284; p. 955.
- "Vanheller." (For Flavorings.) B. Heller & Co. No. 22,471; Feb. 1; v. 283; p. 178.
- "Varn-I-Glo." (For Cans Containing Varn-I-Glo, a Furniture-Polish.) B. Heller & Co. No. 23,137; July 26; v. 288; p. 827.
- "Veenotonic Bitter Wine, Tonik Vina." (For a Medicinal Tonic.) Vino Medical Company. No. 22,712; Mar. 15; v. 284; p. 588.
- "Velvet Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,645; Mar. 8; v. 284; p. 376.
- "Venus Chocolates." (For Boxes Containing Chocolate Brazil Nuts.) Milwaukee Paper Box Company. No. 22,977; May 31; v. 286; p. 1058.
- "Vialux." (For a Line of Street Lighting Units.) A. J. Sweet. No. 22,989; May 31; v. 286; p. 1058.
- "Vicente Nieto." (For Cigars.) Vicente Nieto & Bros. No. 22,418; Jan. 18; v. 282; p. 563.
- "Viebrock." (For Chocolate or Chocolate-Covered Candy or Containers or Wrappers Thereof.) C. Viebrock. No. 22,683; Mar. 8; v. 284; p. 377.
- "Violette Petals." (For Talcum Powder.) Harriet Hubbard Ayer. No. 23,261; Aug. 30; v. 289; p. 1019.



- "Virgin Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,656; Mar. 8; v. 284; p. 376.
- "Virginia's Best Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,377; Sept. 6; v. 290; p. 224.
- "Vista Linen." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. Hopper. No. 23,541; Oct. 25.
- "Vitacoco." (For Cocoa-Powder.) Knickerbocker Chocolate Company. No. 23,552; Oct. 25.
- "Vita Gold." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,681; Nov. 22.
- "Vitamine Chocolate." (For Sweet Chocolate.) Knickerbocker Chocolate Company. No. 23,551; Oct. 25.
- "Vi-Tone." (For Liquid Medicinal Compound for Nervous and Kindred Diseases.) Vi-Tone Products Co. No. 22,990; May 31; v. 286; p. 1058.
- "Vitruvian Glass Coated Flues." (For Flue-Linings for Monarch Ranges.) Malleable Iron Range Company. No. 23,424; Sept. 13; v. 290; p. 431.
- "Volker's Bohemian Brand." (For Tins Containing Malt Extract.) Chas. Volker & Son. No. 23,612; Nov. 1.
- "Vratsenis Asthma Relief." (For Asthma.) D. G. Vratsenis. No. 22,419; Jan. 18; v. 282; p. 563.
- "Wabash Valley." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,560; Oct. 25.
- "Walker's Celebrated I X L Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,750; Mar. 22; v. 284; p. 753.
- "Waller's Relief for Headache and Neuralgia." (For Headache Powders and Tablets.) H. S. Waller. No. 23,578; Oct. 25.
- "Walnut Crullers." (For Crullers.) G. O. Kolb. No. 23,553; Oct. 25.
- "Walnut Nuggets." (For Packages Containing Candy and Confectionery.) A. Olsen, Jr. No. 23,395; Sept. 6; v. 290; p. 224.
- "Walter Jahn's Rico Super-Cream." (For an Evaporated Cream for Table Use.) Rico Milk Products Company. No. 22,609; Mar. 1; v. 284; p. 180.
- "Ward Baking Co.—Quality Cakes—Made Clean—100% Pure." (For Cakes.) Ward Baking Company. No. 23,250; Aug. 23; v. 289; p. 797.
- "Ward's Cake." (For Cake.) H. D. Beach Co. No. 23,054; July 5; v. 288; p. 201.
- "Ward's Pound Cake." (For Cake.) Ward Baking Company. No. 23,776; Dec. 13.
- "Washington Brand." (For Crates Containing Vegetables.) Free Brothers Company. No. 22,899; May 24; v. 286; p. 860.
- "Washington Brand Pure Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,426; Sept. 13; v. 290; p. 431.
- "Watkins All Rubber Patch Outfit." (For Cartons Containing a Rubber-Patch Outfit.) J. R. Watkins Company. No. 22,938; May 24; v. 286; p. 861.
- "Watkins Multisified Coconut Oil Shampoo." (For Advertising Purposes for Watkins Multisified Coconut-Oil Shampoo.) The R. L. Watkins Company. No. 23,411; Sept. 6; v. 290; p. 225.
- "Waukesha Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,480; Oct. 18.
- "Wax for Dancing Floors Only." (Package Containing a Composition Specially Adapted for Floors.) J. P. Sleidle. No. 22,982; May 31; v. 286; p. 1058.
- "Wearbest." (For Hair-Nets.) Hochschild Corporation. No. 23,805; Dec. 20.
- "Welchade." (For Concentrated Grape.) The Welch Grape Juice Company. No. 23,651; Nov. 8.
- "Welch's Apple Butter." (For Apple Butter.) The Welch Grape Juice Company. No. 23,715; Nov. 22.
- "Wellscraft." (For Decorated Candles.) C. B. Wells. No. 22,940; May 24; v. 286; p. 861.
- "West Gold Seal Hair Net." (For Hair-Nets.) A. A. West. No. 22,597; Feb. 15; v. 283; p. 549.
- "Western." (For Grapes.) Dinuba Grape Growers Assn. No. 23,027; June 28; v. 287; p. 783.
- "Westernaire." (For Canned Fruits, Vegetables, and Fish, Cane and Maple Syrup for Foods, Molasses, Strained Honey, Apple-Butter, Fruit Jams, Pork and Beans, Coffee, and Ready-Mixed Paints.) Bon I. Look Stores Company. No. 22,948; May 31; v. 286; p. 1057.
- "Westinghouse Union Battery Co." (For Storage Batteries and Terminals Thereof.) Westinghouse Union Battery Co. No. 22,598; Feb. 15; v. 283; p. 549.
- "Weston's Special Malt Syrup." (For Cans Which Contain Pure Barley and Malt-Syrup.) E. J. Weston. No. 23,507; Oct. 18.
- "Wetproof." (For Shoe-Dressing.) P. Thomson. No. 23,110; July 5; v. 288; p. 202.
- "Wheel Design." (For Hairpins.) Sterling Pin Company. No. 22,386; Jan. 11; v. 282; p. 384.
- "Whip Ezy." (For a Preparation for Whipping Thin Cream, Evaporated Milk, White of Eggs, and Top Cream.) Oxydene Mfg. Corp. No. 22,876; May 3; v. 286; p. 197.
- "White Banner." (For Hops.) Decatur Brewing Company. No. 23,728; Dec. 13.
- "White Cross Ginger Ale." (For Bottles Containing a Beverage—Namely, Ginger-Ale.) Thornton Mineral Springs Company. No. 22,678; Mar. 8; v. 284; p. 376.
- "White Cross Lemon." (For Bottles Containing a Fruit Drink—Namely, Orange.) Thornton Mineral Springs Company. No. 22,676; Mar. 8; v. 284; p. 376.
- "White Cross Orange." (For Bottles Containing a Fruit Drink—Namely, Orange.) Thornton Mineral Springs Company. No. 22,679; Mar. 8; v. 284; p. 377.
- "White Cross Root Beer." (For Bottles Containing a Beverage—Namely, Root-Beer.) Thornton Mineral Springs Company. No. 22,677; Mar. 8; v. 284; p. 376.
- "White Label Brand." (For Pure Georgia Cane-Syrup.) W. H. Robinson. No. 23,400; Sept. 6; v. 290; p. 224.
- "White Mule." (For Cigars.) V. Levor. No. 22,634; Mar. 8; v. 284; p. 375.
- "White Mule Tire-Patch." (For Can Containing Automobile-Tire Patch.) White Mule, Inc. No. 23,583; Oct. 25.
- "White Naphtha Borax Soap." (For Soap.) A. Hoefner & Sons. No. 23,138; July 26; v. 288; p. 827.
- "White Petroleum Soap." (For Soap.) Haskins Brothers & Company. No. 22,736; Mar. 22; v. 284; p. 753.
- "White Rose Bread." (For Wax Paper Wrappers Containing Bread.) Menasha Printing and Carton Company. No. 22,475; Feb. 1; v. 283; p. 178.
- "White Swan Washing Powder." (For a Preparation for Scrubbing and Cleaning Purposes.) B. Heller & Co. No. 23,204; Aug. 23; v. 289; p. 796.
- "Whitehead Brand Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 22,826; Mar. 29; v. 284; p. 956.
- "Whitewings." (For Candy-Boxes.) C. J. Fox Company. No. 23,731; Dec. 13.
- "Whitmore's Anti-Friction Composition." (For Receptacles Containing Lubricant for Compression Grease-Cups, Knuckle-Joints, and Spring-Shackle Cups.) Whitmore Manufacturing Company. No. 22,786; Mar. 22; v. 284; p. 754.
- "Whitmore's Auto Gear." (For Receptacles Containing Protective Composition for Differential Cases.) Whitmore Manufacturing Company. No. 22,715; Mar. 15; v. 284; p. 588.
- "Whitmore's Auto Gear." (For Receptacles Containing Protective Composition for Transmission-Cases.) Whitmore Manufacturing Company. No. 22,785; Mar. 22; v. 284; p. 754.
- "Whitmore's Gear Protective Composition." (For Receptacles Containing Gear-Protective Composition.) Whitmore Manufacturing Company. No. 22,713; Mar. 15; v. 284; p. 588.
- "Whitmore's Worm Gear." (For Receptacles Containing Protective Composition.) Whitmore Manufacturing Company. No. 22,714; Mar. 15; v. 284; p. 588.
- "Whole Wheat Nuggets." (For a Wheat Breakfast Cereal.) Midland Cereal Products Co. No. 22,664; Mar. 8; v. 284; p. 376.
- "Willer's English Peas." (For Dried Peas.) Willer & Riley (1910) Ltd. No. 22,884; May 3; v. 286; p. 197.
- "Willer's English Peas." (For Dried Peas.) Willer & Riley (1910) Ltd. No. 22,887; May 3; v. 286; p. 197.
- "Wine-ola." (For Non-Intoxicant Beverages.) Wine-Ola Co. No. 23,334; Aug. 30; v. 289; p. 1020.
- "Wink." (For Ginger-Flavored Beverages.) Star Beverage Company. No. 22,511; Feb. 1; v. 283; p. 179.
- "Wink." (For 6½ Oz. Bottles Containing a Delicious Drink Made from Orange and other Similar Flavors.) Muscalet Beverage Company. No. 23,486; Oct. 18.
- "Wink the Drink." (For Non-Alcoholic, Maltless Beverages.) R. Hill. No. 23,852; Dec. 27.
- "Winona Linen." (For Boxes for Stationery, Tablets, Pound-Paper, and Envelops.) B. Hopper. No. 23,543; Oct. 25.
- "Winn Chocolates." (For Boxes Containing Chocolates.) Milwaukee Paper Box Company. No. 22,402; Jan. 18; v. 282; p. 563.
- "Wireless." (For Canned Peas.) Inderrieden Canning Co. No. 23,672; Nov. 22.
- "Wirthmore Buttermilk Baby-Chick Food." (For Buttermilk Baby-Chick Food.) St. Albans Grain Company. No. 23,405; Sept. 6; v. 290; p. 224.
- "With All Good Wishes." (For Hosiery.) Holeproof Hosiery Co. No. 23,735; Dec. 13.
- "Wonderful." (For Pomegranates.) Native Son Orchards Co. No. 22,832; Mar. 29; v. 284; p. 956.
- "Woodruff's Wonder Worker." (For an Oil.) T. F. Woodruff. No. 22,420; Jan. 18; v. 282; p. 563.
- "Worden's Lighthouse Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,649; Mar. 8; v. 284; p. 376.
- "World Wide." (For Toilet-Paper.) C. R. White. No. 23,781; Dec. 13.
- "Wrigley's P-Ks Sugar Coated Gum." (For Gum.) Wm. Wrigley, Jr., Company. Nos. 23,170-1; Aug. 9; v. 289; p. 409.
- "Wrigley's Peppermint Chewing Gum." (For Chewing-Gum.) Wm. Wrigley, Jr., Company. Nos. 23,112-13; July 5; v. 288; p. 202.
- "Wrinkle Eradicator." (For Preparations for Removing Wrinkles from the Skin.) Harriet Hubbard Ayer. No. 23,264; Aug. 30; v. 289; p. 1019.



## Alphabetical list of labels—Continued.

- "X X X Brand." (For Malt Extract.) A. Losco. No. 23,853; Dec. 27.
- "Y. D. C." (For Yarn.) A. Hymes. No. 22,967; May 31; v. 286; p. 1057.
- "Y & S." (For Stick-Licorice, Licorice Lozenges, and Licorice Wafers.) National Licorice Company. No. 23,229; Aug. 23; v. 289; p. 797.
- "Yale Shirts." (For Shirts.) M. H. Rosen & Co. No. 22,768; Mar. 22; v. 284; p. 754.
- "Yates Quality Honey." (For Either Liquid or Comb Honey.) A. W. Yates. No. 22,686; Mar. 8; v. 284; p. 377.
- "Yeast." (For Tooth-Paste.) W. T. Green. No. 22,734; Mar. 22; v. 284; p. 753.
- "You Must Be Satisfied." (For Dried Fruits, Hominy-Grits, Chili-Pods, Cocoa, Sugar, Tea, Spices, Coconut, Beans, Rice, Rolled Oats, Chocolate, Sago, Coffee, Tapioca, Barley, Sal-Soda, Sulfur, Gloss-Starch, and Blue Vitrol.) Bon I. Look Stores Company, The. No. 22,949; May 31; v. 286; p. 1057.
- "You'll Do Better Painting with Sco-Co." (For Dry Paints, Paste Paints, and Ready-Mixed Paints.) Southern Cotton Oil Company, The. No. 23,831; Dec. 20.
- "Yuengling's Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 22,639; Mar. 8; v. 284; p. 375.
- "Zanzibar-Brand Cattle and Sheep Dip." (For a Preparation for Dipping Cattle and Sheep.) B. Heller & Co. No. 23,203; Aug. 23; v. 289; p. 796.
- "Zanzibar-Brand Fly Chaser." (For Containers Holding Zanzibar-Brand Fly-Chaser, a Preparation for Chasing Flies from Cattle, Horses, Dogs, and Animal-Quarters.) B. Heller & Co. No. 23,468; Oct. 18.
- "Zanzibar-Carbon Brand Casing Brown Mixture." (For a Preparation for Coloring the Outside of Smoked-Sausage Casings.) B. Heller & Co. No. 22,965; May 31; v. 286; p. 1057.
- "Zanzibar-Carbon Brand Casing Yellow Mixture." (For Cans Containing a Preparation for Coloring the Outside of Liver-Sausage Casings.) B. Heller & Co. No. 22,964; May 31; v. 286; p. 1057.
- "Zanzibarine." (For a Preparation for Coloring Ham and Sausage Strings.) B. Heller & Co. No. 23,289; Aug. 30; v. 289; p. 1019.
- "Zay-Tek." (For Almond Sweet Chocolate.) Pennsylvania Chocolate Company. No. 22,409; Jan. 18; v. 282; p. 563.
- "Zecha Finest Java Tea." (For Tea.) American Javanese Products Co. No. 22,716; Mar. 22; v. 284; p. 753.
- "Zem-Zem." (For Non-Alcoholic Beverages.) Gray-Juergens Co. No. 22,962; May 31; v. 286; p. 1057.

## ALPHABETICAL LIST OF PRINTS.

- "A. D. S. Aspirin." (For Aspirin.) American Druggists Syndicate. No. 5,441; Jan. 18; v. 282; p. 564.
- "A. D. S. Foot Tablets." (For Advertising Purposes for Foot-Tablets.) American Druggists Syndicate. No. 5,572; Mar. 29; v. 284; p. 957.
- "A. D. S. Improved Foot Soap." (For Advertising Purposes for a Foot-Soap for Swollen, Aching, Painful Feet.) American Druggists Syndicate. No. 5,571; Mar. 29; v. 284; p. 957.
- "A Barrel of Satisfaction." (For Powdered Buttermilk.) Collis Products Company. No. 5,464; Jan. 25; v. 282; p. 740.
- "A Beautiful Skin." (For Advertising Kirk's "Jap Rose" Soap.) James S. Kirk & Company. No. 5,759; Sept. 13; v. 290; p. 432.
- "A Delightful Summer Specialty." (For Advertising Purposes for Frankfurt-Style Sausage.) Swift & Company. No. 5,799; Oct. 18.
- "A Feast of Flavor." (For Advertising Purposes for Canned Sausages.) Acme Packing Co. No. 5,589; May 3; v. 286; p. 198.
- "A Food as Pure." (For Bread.) P. J. Stern. No. 5,460; Jan. 18; v. 282; p. 564.
- "A Good Sandwich is a Meal Anywhere." (For Advertising Purposes for Canned Corn-Beef.) Acme Packing Co. No. 5,590; May 3; v. 286; p. 198.
- "A Life Saver Among Life Savers." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,639; June 21; v. 287; p. 592.
- "A New Travel Creation." (For Advertising Purposes for Wardrobe-Trunks.) Hartmann Trunk Company. No. 5,805; Oct. 25.
- "A Rare Prune—Cupertino Brand." (For Advertising Purposes for Prunes.) J. D. Williams. No. 5,900; Dec. 20.
- "A Repair Bill Saved." (For Advertising Purposes for Nokorode Soldering Paste.) F. Chapman. No. 5,636; June 21; v. 287; p. 592.
- "Acme Dial Planchette No. 1." (For Advertising Purposes for Planchettes.) W. A. Urie. No. 5,674; July 5; v. 288; p. 203.
- "After the Hike." (For Advertising Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 5,683; July 26; v. 288; p. 828.
- "All-Ways and Always." (For Advertising Purposes for Sand-Blast and Allied Equipment.) Pangborn Corporation. No. 5,904; Dec. 27.
- "America's Choice." (For Advertising Purposes for Adams Black Jack Chewing-Gum.) American Chiclet Co. No. 5,768; Oct. 18.
- "America's Leading Lubricants." (For Advertising Purposes for Lubricating Oils and Greases.) A. W. Harris Oil Co. No. 5,902; Dec. 27.
- "'Amoreco' is King of All Motor Gasolines." (For Advertising Purposes for Gasolene.) J. P. Powers. Nos. 5,872-3; Dec. 13.
- "An Added Room—Subtracted Rent." (For Advertising Purposes for Bed-Davenport.) Kroehler Mfg. Company. No. 5,812; Oct. 25.
- "An Ounce of Prevention is Worth a Pound of Cure." (For Window-Guards.) Kay Manufacturing Co. No. 5,511; Feb. 8; v. 283; p. 362.
- "And Say—when that P. A. Plover gets-to-purring to your smoke-appetite." (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,894; Dec. 20.
- "Angelus Cleansing Cream." (For Advertising Purposes for a Cleansing-Cream.) L. Philippe. No. 5,562; Mar. 22; v. 284; p. 755.
- "Announcing an Educational Sale of Land O' Cotton Mattress." (For Advertising Purposes for Land O' Cotton Sanitary Layer Cotton Mattress.) Southern Spring Bed Co. No. 5,541; Mar. 8; v. 284; p. 378.
- "Anticipation." (For Advertising Purposes for Gas-Heaters.) The J. H. Grayson Manufacturing Co. No. 5,860; Dec. 13.
- "Anybody Can Make Good Coffee If—." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,645; June 21; v. 287; p. 592.
- "As Delicious as Bonbons." (For Advertising Purposes for Mint Laxatives.) Partola Mfg. Co. No. 5,722; Aug. 30; v. 289; p. 1021.
- "Assortment Shoe Laces." (For Advertising Purposes for Shoe-Laces.) W. H. Joslin. No. 5,716; Aug. 30; v. 289; p. 1021.
- "At Home." (For Bread.) P. J. Stern. No. 5,452; Jan. 18; v. 282; p. 564.
- "Authorized Color Card Showing Season's Latest Shade." (For Advertising Purposes for Hosiery.) Real Silk Hosiery Mills. No. 5,796; Oct. 18.
- "Auto Indicator." (For Auto-Indicators.) Auto Indicator Company. No. 5,619; June 14; v. 287; p. 404.
- "Autoists' Accurate Garage Thermometer." (For Garage-Thermometer.) H. Hoelderle Co. No. 5,689; Aug. 9; v. 289; p. 409.
- "Automatic Yearly Calendar." (For Calendars.) M. J. Friedman. No. 5,444; Jan. 18; v. 282; p. 564.
- "Autosafe." (For Garages.) W. C. Broughton. No. 5,443; Jan. 18; v. 282; p. 564.
- "B. V. D. 1921 Youths' Union Suit." (For Advertising Purposes for Athletic Underwear.) The B. V. D. Company. No. 5,658; July 5; v. 288; p. 203.
- "Bachman 'The Finest Chocolate in The World.'" (For Chocolate.) Bachman Chocolate Manufacturing Co. No. 5,483; Feb. 1; v. 283; p. 180.
- "Bachman 'The Finest Chocolate in The World.'" (For Advertising Purposes for Chocolate-Bars.) Bachman Chocolate Manufacturing Co. No. 5,634; June 21; v. 287; p. 592.
- "Baker Gun." (For Advertising Purposes for Guns.) Baker Gun Co. No. 5,901; Dec. 27.
- "Battery Service." (For Advertising Purposes for Secondary Batteries.) Westinghouse Union Battery Company. No. 5,679; July 12; v. 288; p. 430.
- "Be Fair To Your Car!" (For Advertising Purposes for Sinclair Oils.) Sinclair Refining Company. No. 5,842; Nov. 22.
- "Beech-Nut." (For Advertising Purposes for Ginger-Ale.) Beech-Nut Packing Co. No. 5,592; May 3; v. 286; p. 198.
- "Beech-Nut Ginger Ale." (For Advertising Purposes for Beech-Nut Ginger-Ale.) Beech-Nut Packing Co. No. 5,771; Oct. 18.
- "Beech-Nut Peanut Butter." (For Advertising Purposes for Beech-Nut Peanut-Butter.) Beech-Nut Packing Co. No. 5,770; Oct. 18.
- "Betty Allen." (For Advertising Purposes for Ladies' Gowns.) E. R. Green. No. 5,755; Sept. 13; v. 290; p. 432.
- "Billiken A Five-Room Apartment—A Room for Every Toe." (For Boots and Shoes.) Craddock Terry Company. No. 5,465; Jan. 25; v. 282; p. 740.
- "Bis-Mac." (For Advertising Purposes for a Non-Intoxicating Beverage.) Bis-Mac Co. No. 5,831; Nov. 22.
- "Blue Back Blades." (For Advertising Purposes for Safety Razor Blades.) A. H. Bryant. No. 5,731; Sept. 6; v. 290; p. 224.



- "Blue Band Velvet Pencils." (For Advertising Lead-pencils.) American Lead Pencil Company. No. 5,694; Aug. 23; v. 289; p. 798.
- "Blue Band Velvet Pencil." (For Advertising Purposes for Lead-Pencils.) American Lead Pencil Company. No. 5,845; Dec. 13.
- "Blue Buckles Freedom." (For Overalls.) Jobbers Overall Co. No. 5,532; Mar. 8; v. 284; p. 378.
- "Bond Bread." (For Advertising Purposes for Bond Bread.) General Baking Company. No. 5,833; Nov. 22.
- "Built by Cord Tire Specialists." (For Cord Tires for Motor-Vehicles.) Syracuse Rubber Co. Inc. No. 5,509; Feb. 8; v. 283; p. 362.
- "Call the Owl." (For Advertising Purposes for Oils, Gas, Automobile-Repair Parts, Batteries, and Accessories.) Owl Garage & Repair Co. No. 5,649; June 21; v. 287; p. 592.
- "Canada's Best Furs." (For Advertising Purposes for Furs.) Canadian Fur Traders. No. 5,777; Oct. 18.
- "Cape-Girl." (For Advertising Purposes for Waterproof Outer Garments.) New York Mackintosh Clothing Co. No. 5,815; Oct. 25.
- "Capitol Fuel." (For Advertising Purposes for Coal.) Capitol Fuel Company. No. 5,832; Nov. 22.
- "Carnation Girls." (For Advertising Purposes for Mush Wheat-Flakes.) Albers Bros. Milling Co. No. 5,570; Mar. 29; v. 284; p. 957.
- "Chief of the Trail." (For Automobile-Tires.) Black Hawk Tire & Rubber Company. No. 5,484; Feb. 1; v. 283; p. 180.
- "Chocolate Creams." (For Coffee.) Western Grocer Co. No. 5,618; May 31; v. 286; p. 1058.
- "Clarke's Virgin Peanut Oil." (For Advertising Purposes for Peanut-Oil.) E. Clarke Co., The. No. 5,696; Aug. 23; v. 289; p. 798.
- "Clar-O-Type." (For Material for Cleaning Typewriters.) L. Banov. No. 5,730; Sept. 6; v. 290; p. 226.
- "Closed Cars That Echo Position." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 5,579; Mar. 29; v. 284; p. 957.
- "Cloud '75' Spark Plug." (For Automobile Accessories.) Cloud Accessories Corporation. No. 5,463; Jan. 25; v. 282; p. 740.
- "Coffee and Courage are Shipmates." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,640; June 21; v. 287; p. 592.
- "Coffee or Tea—Chase & Sanborn's for Me." (For Advertising Purposes for Coffee and Tea.) Chase & Sanborn. No. 5,779; Oct. 18.
- "Colorite." (For Advertising Purposes for Colorite.) Carpenter-Morton Co. No. 5,778; Oct. 18.
- "Columbia Dry Batteries." (For Advertising Purposes for Columbia Dry Batteries.) National Carbon Company. No. 5,835; Nov. 22.
- "Columbia Storage Batteries." (For Advertising Purposes for Columbia Storage Batteries.) National Carbon Company. Nos. 5,836-7; Nov. 22.
- "Complexions—Night and Noon." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 5,720; Aug. 30; v. 289; p. 1021.
- "Corned Beef You Will Like." (For Advertising Purposes for Canned Corned Beef.) Acme Packing Company. No. 5,681; July 26; v. 288; p. 828.
- "Corns Hurt." (For Advertising Purposes for Aizo Liquid Preparation to Remove Corns.) A. M. Kronberger. No. 5,891; Dec. 20.
- "Cove." (For Advertising Purposes for Vegetable Oils for Salads and for Cooking.) N. K. Fairbank Company, The. No. 5,699; Aug. 23; v. 289; p. 798.
- "Crop Test." (For Advertising Purposes for Flower and Vegetable Seeds, Shrubs, Plants, Trees.) William B. Rosevear, Jr. No. 5,673; July 5; v. 288; p. 203.
- "Cross Out These Mistakes in Shaving." (For Shaving-Cream.) Palmolive Company. No. 5,496; Feb. 1; v. 283; p. 180.
- "Dairy Maid." (For Korn Kernels.) Marshall Canning Company. No. 5,536; Mar. 8; v. 284; p. 378.
- "Danger of Serious Illness." (For Advertising Purposes for Father John's Medicine.) Carleton & Hovey Company. No. 5,597; May 24; v. 286; p. 861.
- "De Laval Cream Separators." (For Advertising Purposes for Cream-Separators.) The De Laval Separator Co. No. 5,698; Aug. 23; v. 289; p. 798.
- "De Lue's Golden Giant New Early Hybrid Sweet Corn." (For Advertising Purposes for Seed-Corn.) F. S. De Lue. No. 5,621; June 14; v. 287; p. 404.
- "Dickinson Snow Ball Pop Corn." (For Advertising Purposes for Dickinson's Popcorn.) The Albert Dickinson Company. No. 5,853; Dec. 13.
- "Dickinson's Santa Claus Pop Corn." (For Advertising Purposes for Dickinson's Popcorn.) The Albert Dickinson Company. No. 5,854; Dec. 13.
- "Dixie." (For Advertising Rubber Goods.) Dixie Rubber Company. No. 5,529; Mar. 8; v. 284; p. 378.
- "Don't Cut the Cuticle." (For Advertising Purposes for Manicure Preparations.) Northam Warren Corporation. No. 5,828; Nov. 1.
- "Don't Forget Your Woman's Home Companion." (For Advertising Purposes for a Periodical Publication Entitled *Woman's Home Companion*.) The Crowell Publishing Company. No. 5,686; Aug. 9; v. 289; p. 409.
- "Don't let your tires go this way." (For Advertising purposes for Tire-Pressure Gages.) A. Schrader's Son, Incorporated. No. 5,897; Dec. 20.
- "Dorothy's Fifth Birthday." (For Advertising Purposes for a Dessert Preparation.) The Genesee Pure Food Company. No. 5,599; May 24; v. 286; p. 861.
- "Dough-Boy." (For Advertising Purposes for Bread.) J. W. Rinehart. No. 5,709; Aug. 23; v. 289; p. 798.
- "Dow Auto Body Brace." (For Advertising Purposes for Body Braces for Automobiles.) Dow Wire & Iron Works. No. 5,530; Mar. 8; v. 284; p. 378.
- "Dox Best Toothache Pellets." (For Toothache Remedy.) Best Toothache Pellet Co. No. 5,498; Feb. 8; v. 283; p. 362.
- "Dressmakers Snap Fasteners." (For Advertising Purposes for Snap-Fasteners.) M. Messier. No. 5,717; Aug. 30; v. 289; p. 1021.
- "Dri-Boy." (For Advertising Purposes for Waterproof Outer Garments.) New York Mackintosh Clothing Co. No. 5,813; Oct. 25.
- "Dri-Girl." (For Advertising Purposes for Waterproof Outer Garments.) New York Mackintosh Clothing Co. No. 5,814; Oct. 25.
- "Dr. Peck's Py-Zo-Sis Tooth Brush." (For Advertising Purposes for Toothbrushes.) A. E. Peck Manufacturing Co. No. 5,766; Sept. 13; v. 290; p. 432.
- "Duck Head." (For Overalls.) O'Bryan Brothers, Inc. No. 5,669; July 5; v. 288; p. 203.
- "Duxbak Steamproof Nutan." (For Advertising Purposes for an Article of Manufacture—viz., Leather Belting.) Chas. A. Schieren Company. No. 5,767; Sept. 13; v. 290; p. 432.
- "Easy to Keep Fresh Easy to Carry Home in a Papercan." (For Advertising Purposes for Paper Cans.) The Papercan Corporation. No. 5,795; Oct. 18.
- "Eat Arctic Ice Cream, The Smile Follows the Spoon." (For Advertising Purposes for Ice-Cream and Ices.) Arctic Ice and Coal Company. No. 5,526; Mar. 8; v. 284; p. 378.
- "Ebling's Malt Tonic." (For Advertising Purposes for Malt Tonic.) Ebling Bottling Co. Inc. No. 5,638; June 21; v. 287; p. 592.
- "Electric Household Utilities." (For Advertising Purposes for Washing-Machines.) Dow Manufacturing Company. No. 5,637; June 21; v. 287; p. 592.
- "Enjoyment." (For Bread.) P. J. Stern. No. 5,454; Jan. 18; v. 282; p. 564.
- "Even the Finest Salt." (For Bread.) P. J. Stern. No. 5,457; Jan. 18; v. 282; p. 564.
- "Evening Suit." (For Advertising Purposes for Clothing—Namely, Evening-Suits for Men.) Wetzel, Inc. No. 5,523; Mar. 1; v. 284; p. 180.
- "Every Drop Awakens Flavor Heinz Vinegars." (For Advertising Purposes for Heinz Vinegars.) H. J. Heinz Co. No. 5,714; Aug. 30; v. 289; p. 1021.
- "Every drop awakens flavor Heinz Vinegars Fresh Vegetables and Salads." (For Advertising Purposes for Heinz Vinegars.) H. J. Heinz Co. No. 5,809; Oct. 25.
- "Every drop awakens flavor Heinz Vinegars Here's zest to lagging appetites." (For Advertising Purposes for Heinz Vinegars.) H. J. Heinz Co. No. 5,808; Oct. 25.
- "Every One a Winner." (For Advertising Purposes for Hosiery.) Kaiser & Co. No. 5,616; May 31; v. 286; p. 1058.
- "Everybody Needs One." (For Advertising Purposes for Umbrellas.) Umbrella Manufacturers Association of America. No. 5,692; Aug. 9; v. 289; p. 409.
- "Exclusive Features of Real Silk Fashioned Hosiery." (For Advertising Purposes for Hosiery.) Real Silk Hosiery Mills. No. 5,797; Oct. 18.
- "Expectation." (For Advertising Purposes for Gas-Heaters.) The J. H. Grayson Manufacturing Co. No. 5,861; Dec. 13.
- "Extra Early Osage Muskmelon." (For Advertising Purposes for Muskmelon.) Jerome B. Rice Seed Co. No. 5,819; Oct. 25.
- "Fairy Soap." (For Advertising Purposes for Soap for Toilet and for Bath.) N. K. Fairbank Company. No. 5,560; Mar. 22; v. 284; p. 755.
- "Fairy Soap." (For Advertising Purposes for Soaps.) The N. K. Fairbank Company. No. 5,700; Aug. 23; v. 289; p. 798.
- "Fairy Soap as Lovely at Dawn as by Candle Light." (For Soap for Toilet and Bath.) N. K. Fairbank Company. No. 5,519; Feb. 15; v. 283; p. 550.
- "Fairy Soap Pure White Floating." (For Advertising Purposes for Fairy Soap for Toilet and Bath.) N. K. Fairbank Company. No. 5,736; Sept. 6; v. 290; p. 226.
- "Fairy Soap 'Superior Quality Reasonably Priced.'" (For Fairy Soap.) N. K. Fairbank Company. No. 5,486; Feb. 1; v. 283; p. 180.
- "Famous Achievements." (For Advertising Purposes for Tires.) The Brunswick, Balke, Collender Co. No. 5,695; Aug. 23; v. 289; p. 798.



## Alphabetical list of prints—Continued.

- "Father Time." (For Steel Fencposts.) Selway Steel Post & Fence Co. No. 5,494; Feb. 1; v. 283; p. 180.
- "First thing you do next—" (For Advertising Purposes for Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,896; Dec. 20.
- "5¢ Will Still Buy Gold Dust—for Your Spring Cleaning." (For Advertising Gold Dust Washing-Powder.) N. K. Fairbank Company. No. 5,754; Sept. 13; v. 290; p. 432.
- "Flashlight Lamps." (For Advertising and Display Purposes for Flashlight-Lamps.) W. G. Lenz. No. 5,788; Oct. 18.
- "Fly-Wheel Service." (For Advertising Purposes for Fly-Wheel Gear-Rings.) Kirk-Barber Company. No. 5,583; Mar. 29; v. 284; p. 957.
- "Foot Prints Shop." (For Advertising Purposes for Shoes.) Consolidated Shoe Company, Inc. No. 5,780; Oct. 18.
- "For Deep Chest Colds Use Vicks Vaporub It Penetrates and Vaporizes." (For Advertising Purposes for Salve.) Vick Chemical Co. No. 5,728; Aug. 30; v. 289; p. 1021.
- "For Kiddies Cold Troubles Vicks Vaporub You Just Rub It On." (For Advertising Purposes for Salve.) Vick Chemical Co. No. 5,729; Aug. 30; v. 289; p. 1021.
- "For Real Flavor Serve Beech-Nut Jellyed Fruit." (For Advertising Purposes for Beech-Nut Jellyed Fruit.) Beech-Nut Packing Co. No. 5,774; Oct. 18.
- "For the Delicate and Tender Facial Skin." (For Advertising Kirk's "Jap Rose" Soap.) James S. Kirk and Company. No. 5,535; Mar. 8; v. 284; p. 378.
- "For the Hair and Complexion." (For Advertising Kirk's "Jap Rose" Soap.) James S. Kirk & Company. No. 5,533; Mar. 8; v. 284; p. 378.
- "For Your Spring Cleaning Gold Dust." (For Advertising Purposes for Gold Dust Washing-Powder.) N. K. Fairbank Company. No. 5,737; Sept. 6; v. 290; p. 226.
- "4th of July." (For Advertising Purposes for Bread.) Oswald Jaeger Baking Co. No. 5,741; Sept. 6; v. 290; p. 226.
- "Frank Bacon Takes to Omar." (For Advertising Purposes for Cigarettes.) The American Tobacco Company. No. 5,878; Dec. 20.
- "Franklin Fashions." (For Advertising Purposes for Men's Clothing.) Franklin Clothing Manufacturing Co. No. 5,548; Mar. 22; v. 284; p. 755.
- "Fresher by a Day." (For Advertising Purposes for Milk.) Scott-Powell Dairies Inc. No. 5,899; Dec. 20.
- "Frictionless Bearing Metal." (For Use in Reference to Bearing Metal.) Frictionless Metal Company. No. 5,593; May 3; v. 286; p. 198.
- "From the Ground Up." (For Overalls.) Jobbers Overall Co. No. 5,489; Feb. 1; v. 283; p. 180.
- "Frozen In." (For Advertising Purposes for Fire-Extinguishing Apparatus.) Foamite Firefoam Company. No. 5,783; Oct. 18.
- "Gee!—How good a pipe tastes with P. A. for the packing!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,749; Sept. 6; v. 290; p. 226.
- "Get a Pipe! Get some P. A.—and get yours!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,895; Dec. 20.
- "Get yours too; Put it up to a pipe—and P. A.!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,748; Sept. 6; v. 290; p. 226.
- "Glorious Hair." (For Advertising Kirk's "Jap Rose" Soap.) James S. Kirk & Company. No. 5,757; Sept. 13; v. 290; p. 432.
- "Go on and get a pipe—and some P. A." (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,745; Sept. 6; v. 290; p. 226.
- "Gold Dust Costs Little Goes Far." (For Advertising Purposes for Gold Dust Washing-Powder.) N. K. Fairbank Company. No. 5,734; Sept. 6; v. 290; p. 226.
- "Golden Transparent." (For Advertising Kirk's "Jap-Rose" Soap.) James S. Kirk & Company. No. 5,557; Mar. 22; v. 284; p. 755.
- "Good Food for Young Appetites Heinz Oven Baked Beans." (For Advertising Purposes for Heinz Oven-Baked Beans.) H. J. Heinz Co. No. 5,665; July 5; v. 288; p. 203.
- "Goodyear Belts Give Good Wear." (For Advertising Purposes for Rubber Belting.) Goodyear Tire & Rubber Co. No. 5,595; May 17; v. 286; p. 644.
- "Goodyear's Tonsil Instrument." (For Advertising Purposes for Removal of Tonsils.) Max Woche & Son Co. No. 5,877; Dec. 13.
- "Gosman Ginger Ale." (For Advertising Purposes for a Non-Alcoholic Beverage—Namely, Ginger-Ale.) Gosman Ginger Ale Co. No. 5,576; Mar. 29; v. 284; p. 957.
- "Gotham Negligee Girdle." (For Girdles.) Gotham Garter and Novelty Company. No. 5,487; Feb. 1; v. 283; p. 180.
- "Grandmother Knew." (For Bread.) P. J. Stern. No. 5,459; Jan. 18; v. 282; p. 564.
- "Grape Nuts—Food for Sturdy Health." (For Advertising Purposes for Foods—Grape Nuts.) Postum Cereal Co. Inc. No. 5,708; Aug. 23; v. 289; p. 798.
- "Grennan's More Than 50 Varieties." (For Advertising Purposes for Cakes.) Grennan Cake Corporation. No. 5,804; Oct. 25.
- "Grinnell Dress Gloves—The Touch of Correctness." (For Gloves.) Morrison-Ricker Mfg. Company. No. 5,503; Feb. 8; v. 283; p. 362.
- "Grinnell Gloves, 'Best for Every Purpose.'" (For Advertising Purposes for Gloves.) Morrison-Ricker Mfg. Company. Nos. 5,760-3; Sept. 13; v. 290; p. 432.
- "Handy Candy Cloves Flavor." (For Advertising Purposes for Beech-Nut Brand Handy Candy.) Beech-Nut Packing Co. No. 5,773; Oct. 18.
- "Handy Candy Orange Drops." (For Orange Drops.) Beech-Nut Packing Company. No. 5,497; Feb. 8; v. 283; p. 362.
- "Handy Grease Retainers." (For Advertising Purposes for Grease-Retainers.) F. G. Withrow. No. 5,844; Nov. 22.
- "Hardeman Hats Better Hats for Men." (For Hats.) J. T. Hardeman Hat Co. No. 5,664; July 5; v. 288; p. 203.
- "Have a Beautiful Skin." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 5,585; Mar. 29; v. 284; p. 957.
- "Haynes Character Cars." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 5,756; Sept. 13; v. 290; p. 432.
- "Haynes Character Cars." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 5,807; Oct. 25.
- "Haynes 50 the Smaller and Lighter Haynes Car." (For Advertising Purposes for Automobiles.) The Haynes Automobile Company. No. 5,785; Oct. 18.
- "Haynes 1921 Closed Cars." (For Advertising Purposes for Automobiles.) The Haynes Automobile Company. No. 5,611; May 31; v. 286; p. 1058.
- "Hays Superseam Buckskin Glove." (For Women's Gloves.) Daniel Hays Company. No. 5,466; Jan. 25; v. 282; p. 740.
- "Heinz Cream of Tomato Soup Made with Real Cream." (For Advertising Purposes for Heinz Cream-of-Tomato Soup.) H. J. Heinz Co. No. 5,625; June 14; v. 287; p. 404.
- "Heinz Oven Baked Beans Do you know how good they taste?" (For Heinz Baked Beans.) H. J. Heinz Company. No. 5,474; Jan. 25; v. 282; p. 740.
- "Heinz Oven Baked Beans, Foods That Taste Good—Foods That Do You Good." (For Advertising Purposes for Heinz Oven-Baked Beans.) H. J. Heinz. No. 5,613; May 31; v. 286; p. 1058.
- "Heinz Oven Baked Beans, That Heinz Baked Beans are as Good as They are." (For Advertising Purposes for Heinz Oven-Baked Beans.) H. J. Heinz Co. No. 5,614; May 31; v. 286; p. 1058.
- "Heinz Oven Baked Beans. The first taste proves to you how good baked beans can be, and you realize that there is something about them that seems different." (For Heinz Baked Beans.) H. J. Heinz Company. No. 5,473; Jan. 25; v. 282; p. 740.
- "Heinz Oven Baked Beans the Greeting of Smiles—pleasant smiles of appreciation—is to be expected when Heinz Baked Beans are served." (For Heinz Baked Beans.) H. J. Heinz Company. No. 5,472; Jan. 25; v. 282; p. 740.
- "Heinz Spaghetti Ready cooked ready to serve its richness and fine flavor appeal to everyone who appreciates good cooking." (For Advertising Purposes for Heinz Spaghetti.) H. J. Heinz Company. No. 5,554; Mar. 22; v. 284; p. 755.
- "Heinz Spaghetti sometimes it is doubted that Spaghetti so delicious could come in a can—but when you send for and show the very can it came in the case is proved." (For Advertising Purposes for Heinz Spaghetti.) H. J. Heinz Company. No. 5,553; Mar. 22; v. 284; p. 755.
- "Heinz Tomato Ketchup Beef Loaf." (For Advertising Purposes for Heinz Tomato Ketchup.) H. J. Heinz Co. No. 5,623; June 14; v. 287; p. 404.
- "Heinz Tomato Ketchup When You are Wondering About the Distinctively Delicious Flavor of Heinz Tomato Ketchup." (For Advertising Purposes for Heinz Tomato Ketchup.) H. J. Heinz Co. No. 5,624; June 14; v. 287; p. 404.
- "Heinz Vinegars Every Drop Awakens Flavor all your skill in salad making goes for naught if the vinegar is not right." (For Heinz Vinegars.) H. J. Heinz Company. No. 5,470; Jan. 25; v. 282; p. 740.
- "Heinz Vinegars. Every drop awakens flavor if the success of a salad depends on the dressing—and it certainly does—then it follows that the success of the dressing depends on the vinegar used." (For Heinz Vinegars.) H. J. Heinz Company. No. 5,471; Jan. 25; v. 282; p. 740.
- "Heinz Vinegars every drop awakens flavor. In ordering vinegar be sure of its purity." (For Advertising Purposes for Vinegar.) H. J. Heinz Company. No. 5,551; Mar. 22; v. 284; p. 755.



- "Heinz Vinegars every drop awakens flavor the ideal vinegar calls to life the latent flavors in foods, and blends deliciously with them." (For Advertising Purposes for Vinegar.) H. J. Heinz Company. No. 5,552; Mar. 22; v. 284; p. 755.
- "Heinz Vinegars, Pints, Quarts, Half-Gallons, Any Salad Dressing will be Better for the Use of These Vinegars." (For Advertising Purposes for Heinz Vinegars and Olive-Oil.) H. J. Heinz Co. No. 5,703; Aug. 23; v. 289; p. 798.
- "Heinz Vinegars, Pints, Quarts, Half-Gallons in Bottles Filled and Sealed in the Heinz Establishment. These Fragrant, Piquant Vinegars." (For Advertising Purposes for Heinz Vinegars and Olive-Oils.) H. J. Heinz Co. No. 5,704; Aug. 23; v. 289; p. 798.
- "Heinz Vinegars, Pints, Quarts, Half Gallons, Perfect Salad Dressing and Heinz Vinegars Go Together." (For Advertising Purposes for Heinz Vinegars and Olive-Oil.) H. J. Heinz Co. No. 5,612; May 31; v. 286; p. 1058.
- "Here is Something New Virginies." (For Advertising Canned Meat-Patties.) Acme Packing Co. No. 5,604; May 31; v. 286; p. 1058.
- "Here It Is!" (For Commutators.) The Baltimore Commutator Company. No. 5,675; July 12; v. 288; p. 430.
- "Here's a Meal Already Cooked." Heinz Spaghetti Cooked Ready to Serve." (For Heinz Cooked Spaghetti.) H. J. Heinz Co. No. 5,667; July 5; v. 288; p. 203.
- "Here's the Perfection of Corned Beef." (For Advertising Canned Corned Beef.) Acme Packing Co. No. 5,605; May 31; v. 286; p. 1058.
- "Here's Your Latest American Magazine." (For Advertising Purposes for a Periodical Publication Entitled *American Magazine*.) The Crowell Publishing Company. No. 5,687; Aug. 9; v. 289; p. 409.
- "He's Painting It with Cook's." (For Advertising Purposes for Paint Products.) Cook Paint & Varnish Company. No. 5,685; Aug. 9; v. 289; p. 409.
- "Hills Bros. Red Can Coffee." (For Advertising Purposes for Coffee.) Hills Bros. No. 5,543; Mar. 15; v. 284; p. 588.
- "Hills Bros. Red Can Coffee." (For Advertising Purposes for Coffee.) Hills Bros. No. 5,688; Aug. 9; v. 289; p. 409.
- "His Master's Choice." (For Advertising Purposes for Cigars.) G. Kelly. No. 5,617; May 31; v. 286; p. 1058.
- "Hood Tires." (For Advertising Purposes for Motor-Vehicle Tires.) Hood Rubber Company. No. 5,615; May 31; v. 286; p. 1058.
- "Horse-Shoe Tires." (For Tires.) Aultman, Inc. No. 5,442; Jan. 18; v. 282; p. 564.
- "Hotter Than Sunshine." (For Advertising Purposes for Coal.) United Fuel & Supply Company. No. 5,711; Aug. 23; v. 289; p. 798.
- "How Shall I Cut That Keyway?" (For Advertising Purposes for Keyway Sets and Machines for Use in Connection with Same.) Velco Manufacturing Company. No. 5,726; Aug. 30; v. 289; p. 1021.
- "Hunting Frock Suit." (For Advertising Purposes for Clothing—Namely, Hunting-Suits for Men.) Wetzel, Inc. No. 5,225; Mar. 1; v. 284; p. 180.
- "I Am Coming." (For Dress Fabrics.) H. Glass & Co. No. 5,501; Feb. 8; v. 283; p. 362.
- "I Am Penalized If One Comes Back." (For Advertisement of Tires.) The Miller Rubber Co. No. 5,668; July 5; v. 288; p. 203.
- "I Wish Dinner'd Hurry." (For Advertising Purposes for Jell-O, a Dessert Preparation.) The Genesee Pure Food Company. No. 5,661; July 5; v. 288; p. 203.
- "Ice Cream Easy to Carry Home in a Papercan." (For Advertising Purposes for Papercans.) The Papercan Corporation. No. 5,794; Oct. 18.
- "Iced Coffee More Than Cooling." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,644; June 21; v. 287; p. 592.
- "Ideal Hair Bow Ribbon." (For Advertising Purposes for Hair-Bow Ribbons.) H. Adler & Bro. No. 5,546; Mar. 22; v. 284; p. 755.
- "If It Swims We Have It." (For Advertising Purposes for Fish.) Midwest Fisheries Association. No. 5,647; June 21; v. 287; p. 592.
- "Illustrating Hays Double-Built Buckskin with Wrist-Strap and Removable Inner Glove of Knit Wool." (For Leather Gloves.) D. Hays Company. No. 5,515; Feb. 15; v. 283; p. 550.
- "Illustrating Hays Mahogany Colored Cape with Two-Tone Embroidered Back." (For Leather Gloves.) D. Hays Company. No. 5,514; Feb. 15; v. 283; p. 550.
- "I'm Sure it must be important, Jenkins, or you wouldn't disturb me now." (For Advertising Purposes for Crane's Linen Lawn and Eaton's Highland Linen.) Eaton, Crane & Pike Company. No. 5,782; Oct. 18.
- "Imitation—The Sincerest Flattery." (For Wheat Breakfast Food.) Cream of Wheat Co. No. 5,499; Feb. 8; v. 283; p. 362.
- "Improved Asphalt Slab." (For Advertising Purposes for Asphalt-Shingle Roofs.) Asbestos Roofing Company. No. 5,802; Oct. 25.
- "In Nature's Gushing Spring." (For Bread.) P. J. Stern. No. 5,450; Jan. 18; v. 282; p. 564.
- "Ink-Eau Indelible Duplicating Pencil." (For Advertising Purposes for Lead-Pencils.) American Lead Pencil Company. No. 5,850; Dec. 13.
- "Isn't any game that can trim P. A. and a pet pipe!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,566; Mar. 22; v. 284; p. 755.
- "It Aint Toothache—It's Climax." (For Chewing-Tobacco.) P. Lorillard Company. No. 5,671; July 5; v. 288; p. 203.
- "Its Flavor Means Pleasure Its Purity Means Health." (For Advertising Purposes for Ice-Cream.) Peerless Ice Cream Co. No. 5,871; Dec. 13.
- "It's Hoyt's, You'll Like It." (For Candy—Namely Selected Sweets.) Howard H. Hoyt Candy Co. No. 5,715; Aug. 30; v. 289; p. 1021.
- "It's just one smoke after another—When you're jimmy-pipe-ing it with P. A.!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,567; Mar. 22; v. 284; p. 755.
- "It's P. A. that makes it such top sport to pal it with a jimmy pipe!" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,506; Feb. 8; v. 283; p. 362.
- "It's Prince Albert's quality that rings so true to your taste!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,747; Sept. 6; v. 290; p. 226.
- "It's the Taste That Tells." (For Advertising Purposes on Ice-Cream.) A. P. McLendon. No. 5,739; Sept. 6; v. 290; p. 226.
- "Jabon de Afeitar de Williams." (For Advertising Purposes for Soap—Stick, Powder, Paste, Cream, and Liquid.) J. B. Williams Company. No. 5,712; Aug. 23; v. 289; p. 798.
- "Jannetta." (For Advertising Purposes for Hair-Nets.) M. Herzog. No. 5,786; Oct. 18.
- "Joe Martin." (For Corona Typewriters.) Corona Typewriter Company, Inc. No. 5,513; Feb. 15; v. 283; p. 550.
- "Jumped Into Favor Because of Its Flavor." (For Advertising Purposes for Breakfast Food.) Breakfast Brownies Company. No. 5,803; Oct. 25.
- "Just Like Dad's." (For Advertising Purposes for One-Piece Garments.) H. D. Lee Mercantile Co. No. 5,628; June 14; v. 287; p. 404.
- "Kant-Rust." (For Advertising Purposes for Rust-Preventing and Renewing Composition.) Kant Rust Products Co. No. 5,866; Dec. 13.
- "Kash Karry Koffee." (For Containers or Bags for Advertising Coffee.) W. H. Deubener. No. 5,753; Sept. 13; v. 290; p. 432.
- "Katz Pays the Tax." (For Advertising Purposes for Cigars and Tobacco.) I. and M. Katz. No. 5,826; Nov. 1.
- "Keep Clean with Gold Dust." (For Advertising Purposes for Gold Dust Washing-Powder.) N. K. Fairbank Company. No. 5,735; Sept. 6; v. 290; p. 226.
- "Keep Kitchen Utensils from Rusting." (For Advertising Purposes for Nokorode Soldering Paste.) F. Chapman. No. 5,635; June 21; v. 287; p. 592.
- "Keep That School Girl Complexion." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 5,792; Oct. 18.
- "Kelly Comfort Chairs." (For Advertising Purposes for Reclining-Chairs.) J. A. Kelly & Brother. No. 5,738; Sept. 6; v. 290; p. 226.
- "Kelly Softseat Bed Davenport." (For Advertising Purposes for Bed-Davenport.) J. A. Kelly & Brothers. No. 5,787; Oct. 18.
- "Kept Clean with Gold Dust." (Ice Box Design.) (For Advertising Purposes for Gold Dust Washing-Powder.) N. K. Fairbank Company. No. 5,824; Nov. 1.
- "Koehler." (For Advertising Purposes for Lumber.) Henry Koehler & Co. No. 5,559; Mar. 22; v. 284; p. 755.
- "Labor Day." (For Advertising Purposes for Bread.) Oswald Jaeger Baking Co. No. 5,742; Sept. 6; v. 290; p. 226.
- "Ladish Quality." (For Advertising Purposes for Flour.) Aultman Inc. No. 5,769; Oct. 18.
- "Last a Life Time." (For Garbage-Receptacles.) Detroit Concrete Receptacle Co. No. 5,516; Feb. 15; v. 283; p. 550.
- "Layewood." (For Advertising Purposes for Plywood and Wood Veneers.) John B. Crosby. No. 5,884; Dec. 20.
- "Leo Dittrichstein holds an Omar." (For Advertising Purposes for Cigarettes.) The American Tobacco Company. No. 5,882; Dec. 20.
- "Leon Erroll holds his Omar like this." (For Advertising Purposes for Cigarettes.) The American Tobacco Company. No. 5,883; Dec. 20.
- "Let the Kiddies Romp and Play." (For Advertising Kirk's "Jap Rose" Soap.) James S. Kirk and Company. No. 5,534; Mar. 8; v. 284; p. 378.
- "—like lemon? drink Lemon-CrushH." (For Advertising Purposes for Lemon Crush.) Orange Crush Company. No. 5,839; Nov. 22.
- "—like oranges? drink Orange-CrushH." (For Advertising Purposes for Orange Crush Company.) No. 5,838; Nov. 22.



## Alphabetical list of prints—Continued.

- "Look! The Lucky Hook." (For Spark-Plugs.) P. J. Donovan. No. 5,485; Feb. 1; v. 283; p. 180.
- "Lydia E. Pinkham's Vegetable Compound." (For Advertising Purposes for a Vegetable Compound Used for Medicinal Purposes.) Lydia E. Pinkham Medicine Co. No. 5,707; Aug. 23; v. 289; p. 798.
- "Magnet Type Battery System." (For Advertising Purposes for Ignition Apparatus.) American Bosch Magneto Corporation. No. 5,633; June 21; v. 287; p. 592.
- "Make it quick and snappy!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,564; Mar. 22; v. 284; p. 755.
- "Makes Eating More Fun." (For Heinz Apple-Butter.) H. J. Heinz Co. No. 5,666; July 5; v. 288; p. 203.
- "Makes the 'Rub' Easy on Wash Day." (For Advertising Purposes for Wash-Rub Blocks.) H. J. Gotthelf. No. 5,549; Mar. 22; v. 284; p. 755.
- "Makes Your Hair Look Its Best." (For Advertising Purposes for Multisified-Cocconut-Oil Shampoo.) R. L. Watkins Company. No. 5,568; Mar. 22; v. 284; p. 755.
- "Making a Beauty Treatment." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 5,594; May 3; v. 286; p. 198.
- "Man, Oh Man!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,563; Mar. 22; v. 284; p. 755.
- "May Echo Sylvia Breeding." (For Advertising Purposes for Holstein Friesian Cattle of May Echo Sylvia Breeding.) H. G. Stibbs. No. 5,587; Mar. 29; v. 284; p. 957.
- "Memorial Day." (For Advertising Purposes for Bread.) Oswald Jaeger Baking Co. No. 5,791; Oct. 18.
- "Miller Surgeons Grade Rubber Goods." (For Water-Bottles and Rubber Goods Known as the Surgeon's Grade.) Miller Rubber Co. No. 5,518; Feb. 15; v. 283; p. 550.
- "Miss Quality." (For Advertising Purposes for Children's Dresses.) A. Rosenblatt Sons & Co. No. 5,820; Oct. 25.
- "Modern Ovens." (For Bread.) P. J. Stern. No. 5,455; Jan. 18; v. 282; p. 564.
- "Mother's Birthday." (For Advertising Purposes for Jell-O, a Dessert Preparation.) The Genesee Pure Food Company. No. 5,663; July 5; v. 288; p. 203.
- "My Reputation Depends on Coffee." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,643; June 21; v. 287; p. 592.
- "Nail." (For Nail-Polish.) Andre Company. No. 5,512; Feb. 15; v. 283; p. 550.
- "Neptune's Daughter." (For Advertising Purposes for Bathing-Suits.) Niagara Knitting Mills Corp. No. 5,628; June 14; v. 287; p. 404.
- "Nesmoht Obstetrical Table." (For Advertising Purposes for Obstetrical Tables.) J. H. Thomson. No. 5,830; Nov. 8.
- "New England School Room Scenes." (For Advertising Purposes for Jell-O.) Genesee Pure Food Company. No. 5,855; Dec. 13.
- "New Facts on Shaving." (For Advertising Purposes for Shaving Cream.) Palmolive Company. No. 5,539; Mar. 8; v. 284; p. 378.
- "New Mexico Shelled Piñon Nuts." (For Advertising Purposes for Piñon-Nuts.) F. S. Spitz. No. 5,653; June 21; v. 287; p. 592.
- "No Underwear is B. V. D. Without This Red Woven Label." (For Advertising Purposes for Athletic Underwear.) The B. V. D. Company. No. 5,659; July 5; v. 288; p. 203.
- "Nobrush." (For Shoe-Polish.) The Climax Specialties Co. No. 5,660; July 5; v. 288; p. 203.
- "Note My Gold Tooth." (For Tooth-Powder.) E. A. Welters. No. 5,482; Jan. 25; v. 282; p. 740.
- "Now Standardized—Nurex Tabbung Compound." (For Tabbung Compound.) Lee Hardware Co. No. 5,490; Feb. 1; v. 283; p. 180.
- "Nyal Corn Remover for Mine." (For Advertising Purposes for a Corn Remedy.) Nyal Co. No. 5,740; Sept. 6; v. 290; p. 226.
- "Nyoil." (For Advertising Purposes for Nyoil, a Lubricant.) J. K. Nye. No. 5,790; Oct. 18.
- "Odo-Ro-No Ends Perspiration Annoyance." (For Advertising Purposes for Liquid Deodorizing Preparations for Perspiration Annoyances.) The Odocono Co. No. 5,648; June 21; v. 287; p. 592.
- "Old Rubbers Made New." (For Advertising Purposes for Repair-Patches for Rubber Footwear.) Robertson & Sons Shoe Repairers, Inc. No. 5,672; July 5; v. 288; p. 203.
- "Olive Oil Makes Glossy Hair." (For Advertising Purposes for Shampoo.) The Palmolive Company. No. 5,816; Oct. 25.
- "Olympic." (For Feed, Flour, Cereals.) Traung Label & Lithograph Co. No. 5,495; Feb. 1; v. 283; p. 180.
- "Order Post Toasties To-Day." (For Advertising Purposes for Cereal Foods—Corn Flakes.) Postum Cereal Co., Inc. No. 5,690; Aug. 9; v. 289; p. 409.
- "Ordinary Rip and Trouble Stitching Superseam Stitching That Will Not Ravel." (For Advertising for Hay's Gloves.) Daniel Hays Company. No. 5,527; Mar. 8; v. 284; p. 378.
- "P. A. in a pipe? Say, now, you're setting real words to real music!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,746; Sept. 6; v. 290; p. 226.
- "P. A. packed in a joy's jimmy pipe listens like this?" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,565; Mar. 22; v. 284; p. 755.
- "P. A. puts spring frolics into your old jimmy pipe!" (For Advertising Purposes for Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,545; Mar. 15; v. 284; p. 588.
- "Paramount." (For Oak Sole-Leather.) L. Silberman. No. 5,447; Jan. 18; v. 282; p. 564.
- "Peanut Andy." (For Advertising Purposes for Peanut Candy.) M. M. Hoffman. No. 5,825; Nov. 1.
- "Penn Double Bevel Blade." (For Advertising Purposes for Safety-Razor Blades.) A. C. Penn, Inc. No. 5,764; Sept. 13; v. 290; p. 432.
- "Perfect Cleanliness." (For Bread.) P. J. Stern. No. 5,458; Jan. 18; v. 282; p. 564.
- "Phys-I-Og-Nomy Hat Chart." (For Advertising Purposes for Hats.) G. J. Linden. No. 5,627; June 14; v. 287; p. 404.
- "Pinks the Distinctive Straw." (For Advertising Purposes for Drinking-Straws.) Albert Pick & Company. No. 5,744; Sept. 6; v. 290; p. 226.
- "Polk's." (For Advertising Purposes for Juice of Grapefruit.) J. T. Polk Company. No. 5,586; Mar. 29; v. 284; p. 957.
- "Post Toasties." (For Advertising Purposes for Cereal Foods—Corn Flakes.) Postum Cereal Co. No. 5,723; Aug. 30; v. 289; p. 1021.
- "Pow-Ha-Tan Cigars Good to the Last Puff." (For Cigars.) Brinkman, Meisel & Recker Cigar Co. No. 5,574; Mar. 29; v. 284; p. 957.
- "Powerful, Dependable, Worthy of the Name." (For Advertising Purposes for Columbia Storage Batteries.) National Carbon Co., Inc. No. 5,892; Dec. 20.
- "Presenting Castle-Grande." (For Advertising Purposes for Wardrobe-Trunks.) Hartmann Trunk Company. No. 5,806; Oct. 25.
- "Price's Grown-Ups." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 5,682; July 26; v. 288; p. 828.
- "Prince Albert passes out such joy's smokesport you're keen to run up your jimmy pipe colors." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,492; Feb. 1; v. 283; p. 180.
- "Quality Ever Maintained." (For Advertising Purposes for Athletic Underwear.) The B. V. D. Company. No. 5,775; Oct. 18.
- "Quality Inn." (For Advertising Purposes for Coffee.) Hills Bros. No. 5,862; Dec. 13.
- "Quality Reigns Supreme." (For Bread.) P. J. Stern. No. 5,453; Jan. 18; v. 282; p. 564.
- "Quinby's." (For Advertising Purposes for Chocolates.) California Chocolate Shops, Inc. No. 5,852; Dec. 13.
- "Rat and Mouse Embalmer." (For Felix Girard Rat and Mouse Poison.) Felix Girard Co. No. 5,622; June 14; v. 287; p. 404.
- "Raymond Hitchcock's hand holding an Omar." (For Advertising Purposes for Cigarettes.) The American Tobacco Company. No. 5,880; Dec. 20.
- "Realization." (For Advertising Purposes for Gas-Heaters.) The J. H. Grayson Manufacturing Co. No. 5,859; Dec. 13.
- "Red Seal Hair Nets Are Good." (For Advertising Hair-Nets.) Morris, Mann & Reilly. No. 5,718; Aug. 30; v. 289; p. 1021.
- "Remembrance Advertising." (For Advertising Purposes for Art Calendars, Greetings, and Utilities Made of Metal, Cloth, and Celluloid.) Brown & Bigelow. No. 5,528; Mar. 8; v. 284; p. 378.
- "Remembrance Advertising." (For Advertising Purposes for Art-Calendars, Greetings, and Utilities Made of Metal, Cloth, and Celluloid.) Brown & Bigelow. No. 5,575; Mar. 29; v. 284; p. 957.
- "Remington." (For Advertising Purposes for Type-writers.) Remington Typewriter Co. Inc. No. 5,874; Dec. 13.
- "Remington UMC for Shooting Right." (For Advertising Purposes for Remington UMC Shot-Shells and Shotguns.) Remington Arms UMC Co. No. 5,798; Oct. 18.
- "Remove All Doubt! Order Partridge Ham and Bacon." (For Advertising Purposes for Ham and Bacon.) H. Meyer Packing Company. No. 5,867; Dec. 13.
- "Ridewell Tires." (For Advertising Purposes for Automobile-Tires.) Robel and Bryant. No. 5,601; May 24; v. 286; p. 861.
- "Riding Sacque Suit." (For Advertising Purposes for Clothing—Namely, Riding-Suits for Men.) Wetzel, Inc. No. 5,522; Mar. 1; v. 284; p. 180.
- "Ristbelt." (For Leather Gloves.) Daniel Hays Company. No. 5,467; Jan. 25; v. 282; p. 740.
- "Rivals in Beauty." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 5,903; Dec. 27.



- "Rubber-set Paint Brushes They Leave No Bristles on the Job." (For Advertising Purposes for Paint and Brushes.) Rubber & Celluloid Products Company. No. 5,724; Aug. 30; v. 289; p. 1021.
- "S. B. Cutaway Suit." (For Advertising Purposes for Clothing—Namely, Cutaway Suits for Men.) Wetzel, Inc. No. 5,524; Mar. 1; v. 284; p. 180.
- "Sachs-Lawlor Co., Inc." (For Advertising Purposes for Rubber Stamps, Seals, and Keys.) Sachs-Lawlor Machine and Manufacturing Company. No. 5,521; Mar. 1; v. 284; p. 180.
- "Safety Snap Fastener." (For Snap-Fasteners.) T. Tonks. No. 5,461; Jan. 18; v. 282; p. 564.
- "Sapolin." (For Advertising Purposes for Stovepipe-Enamel.) Gerstendorfer Bros. No. 5,784; Oct. 18.
- "Say:—'Vernor's—a Case!'" (For Advertising Purposes for Ginger-Ale and Ginger-Ale Extract.) James Vernor Company. No. 5,811; Oct. 25.
- "Schrader Universal Tire-Pressure-Gauge Schrader Universal Inflating Valve." (For Advertising Purposes for Tire Pressure-Gages, and Inflating-Valves.) A. Schrader's Son. No. 5,840; Nov. 22.
- "Schrader-Universal Valve Caps." (For Advertising Purposes for Valve-Caps.) A. Schrader's Son, Incorporated. No. 5,875; Dec. 13.
- "Sealed Wax Wrapper." (For Bread.) P. J. Stern. No. 5,456; Jan. 18; v. 282; p. 564.
- "Sebago." (For Cigars.) J. C. McGrath. No. 5,446; Jan. 18; v. 282; p. 564.
- "Sentry-Uniform Slide Easy Hair Curlers." (For Advertising Purposes for Hair-Curlers.) J. Goldsmith, Jr. No. 5,606; May 31; v. 286; p. 1058.
- "Sinclair Motor Oil In One Quart Cans." (For Advertising Purposes for Sinclair Oils.) Sinclair Refining Company. No. 5,841; Nov. 22.
- "600,000 Blue Buckle Salesmen." (For Overalls.) Jobbers Overall Co. No. 5,531; Mar. 8; v. 284; p. 378.
- "Ship St. Nick the P. A. Wink." (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,631; June 14; v. 287; p. 404.
- "So Smooth So Snug." (For Advertising Purposes for Hosiery.) Notaseme Hosiery Company. No. 5,719; Aug. 30; v. 289; p. 1021.
- "Some Imitation." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 5,620; June 14; v. 287; p. 404.
- "Something from Ward Baking Co. of Special Interest." (For Advertising Purposes for Bread.) Ward Baking Company. No. 5,588; Mar. 29; v. 284; p. 957.
- "Spark Plug." (For Advertising Purposes for Neckwear.) Bracken Furnishing Goods Company. No. 5,751; Sept. 13; v. 290; p. 432.
- "Speed Wagon." (For Advertising Purposes for Motor-Trucks.) Reo Motor Car Co. No. 5,765; Sept. 13; v. 290; p. 432.
- "Sprague Tires Cost You Less Per Mile." (For Pneumatic Tires.) Sprague Tire and Rubber Company. No. 5,508; Feb. 8; v. 283; p. 362.
- "Star Tailors." (For Advertising Purposes for Men's Tailored Suits.) A. B. Stephens. No. 5,602; May 24; v. 286; p. 861.
- "Sterling Cream." (For Advertising Purposes for Cream.) F. E. Cryder. No. 5,781; Oct. 18.
- "Sterling Milk." (For Advertising Purposes for Milk.) F. E. Cryder. No. 5,752; Sept. 13; v. 290; p. 432.
- "Stop Little Chicks from Dying." (For Advertising Purposes for Ru-Chol, a Poultry Medicine for Treatment of White Diarrhea, Cholera, Roup, Canker, Colds, and Limberneck.) Vaycide Chemical Corp. No. 5,822; Oct. 25.
- "Stop Shaving the Old Way." (For Shaving-Cream.) Palmolive Company. No. 5,477; Jan. 25; v. 282; p. 740.
- "Store at Your Door." (For Portable Grocery-Stores.) Lockwood Store at Your Door Company. No. 5,517; Feb. 15; v. 283; p. 550.
- "Susanne." (For Advertising Purposes for Flour.) Holland-O'Neal Milling Co. No. 5,865; Dec. 13.
- "Take Home Some Ice Cream in a Papercan." (For Advertising Purposes for Papercans.) The Papercan Corporation. No. 5,793; Oct. 18.
- "Talk About Turning Over a New Leaf." (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,632; June 14; v. 287; p. 404.
- "Tell Time Right." (For Advertising Purposes for Watches and Clocks.) J. P. Becker. No. 5,684; Aug. 9; v. 289; p. 409.
- "Telling Mamma About Jell-O." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 5,834; Nov. 22.
- "10 Years of Leadership in Piston Ring Engineering." (For Advertising Purposes for Piston-Rings.) McQuay-Norris Mfg. Co. No. 5,584; Mar. 29; v. 284; p. 957.
- "Tetlow's Pussywillow Powder." (For Advertising Purposes for Tetlow's Pussywillow Face-Powder.) H. Tetlow Co. No. 5,800; Oct. 18.
- "Thanksgiving." (For Advertising Purposes for Bread.) Oswald Jaeger Baking Co. No. 5,743; Sept. 6; v. 290; p. 226.
- "The Bear Scene." (For Advertising Purposes for Jell-O, a Dessert Preparation.) The Genesee Pure Food Company. No. 5,887; Dec. 20.
- "The Big Gift for the Big Day." (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,630; June 14; v. 287; p. 404.
- "The Cosmetic Oils of Cleopatra Combined in a Cake of Soap." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 5,670; July 5; v. 288; p. 203.
- "The Cosmetics of Cleopatra." (For Palmolive Soap.) Palmolive Company. No. 5,504; Feb. 8; v. 283; p. 362.
- "The Costume Party." (For Jell-O.) Genesee Pure Food Company. No. 5,468; Jan. 25; v. 282; p. 740.
- "The Crowning Achievement of America's Oldest Automobile Manufacturers." (For Advertising Purposes for Automobiles.) The Haynes Automobile Co. No. 5,889; Dec. 20.
- "The De Rigne Pneumatic Pump." (For Advertising Purposes for Tire-Pumps.) C. A. De Rigne. No. 5,829; Nov. 8.
- "The Diamond Set Fez." (For "Fez" Hats.) W. Lehmberg. No. 5,491; Feb. 1; v. 283; p. 180.
- "The Doctor in Candy Form." (For Advertising Purposes for Nut Laxatives.) Partola Mfg. Co. No. 5,721; Aug. 30; v. 289; p. 1021.
- "The Event of the Day." (For Advertising Purposes for Kirk's "Jap Rose" Soap.) James S. Kirk & Company. No. 5,556; Mar. 22; v. 284; p. 755.
- "The Factories Behind the Shade." (For Advertising Purposes for Window-Shades.) Columbia Mills Inc. No. 5,713; Aug. 30; v. 289; p. 1021.
- "The Finest Flour." (For Bread.) P. J. Stern. No. 5,451; Jan. 18; v. 282; p. 564.
- "The Finest Reproducing Phonograph in the World." (For Advertising Purposes for Phonographs.) Steger & Sons Pianos Manufacturing Company. No. 5,651; June 21; v. 287; p. 592.
- "The First Food of the Morning." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,582; Mar. 29; v. 284; p. 957.
- "The Girl Women Envy and Men Admire." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 5,818; Oct. 25.
- "The Girl You Stop to Look At." (For Palmolive Soap.) The Palmolive Company. No. 5,678; July 12; v. 288; p. 430.
- "The Great American Daily." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 5,547; Mar. 22; v. 284; p. 755.
- "The Grown-Ups." (For Advertising Purposes for a Dessert Preparation.) The Genesee Pure Food Company. No. 5,598; May 24; v. 286; p. 861.
- "The Halliwell 'Turtle' Curling Stove." (For Advertising Purposes for Curling-Irons.) R. H. Brown. No. 5,776; Oct. 18.
- "The Handy Candy." (For Advertising Purposes for Handy Candy.) Beech-Nut Packing Co. No. 5,772; Oct. 18.
- "The Haynes Special Speedster." (For Advertising Purposes for Automobiles.) Haynes Automobile Co. No. 5,608; May 31; v. 286; p. 1058.
- "The Hot Stuff Scarf Pin Made of Coal." (For Advertising Purposes for Scarf-Pins.) Hampden Toy Co. No. 5,550; Mar. 22; v. 284; p. 755.
- "The Improved Instrument Board." (For Automobiles.) The Haynes Automobile Co. No. 5,488; Feb. 1; v. 283; p. 180.
- "The Largest Selling Quality Pencil in the World." (For Advertising Purposes for Lead-Pencils.) American Lead Pencil Company. Nos. 5,655-6; July 5; v. 288; p. 203.
- "The Linn Ball Panel." (For Advertising Purposes for Jell-O.) The Genesee Pure Food Company. No. 5,858; Dec. 13.
- "The Linn Ball Strawberry Jell-O." (For Advertising Purposes for Jell-O.) The Genesee Pure Food Company. No. 5,856; Dec. 13.
- "The Master of the House Demands it!" (For Cocoa.) H. O. Wilbur & Sons. No. 5,510; Feb. 8; v. 283; p. 362.
- "The Means to Beauty." (For Palmolive Soap.) Palmolive Company. No. 5,505; Feb. 8; v. 283; p. 362.
- "The Merrow Machine Company." (For Advertising Purposes for Sewing-Machines, Including Overseaming, Overedging, and Shell-Stitch Machines and the Products Thereof.) The Merrow Machine Company. No. 5,789; Oct. 18.
- "The Mineral Wax Twins Clean and Good." (For Advertising Purposes for Inked Ribbons and Carbon-Sheets for Duplicating or Transferring Impressions.) Columbia Carbon Company. No. 5,732; Sept. 6; v. 290; p. 226.
- "The Modern Soap for Modern Methods." (For Soap Chips or Soap Flakes.) Chas. W. Young & Co. No. 5,462; Jan. 18; v. 282; p. 564.
- "The Most Valuable Piano in the World." (For Advertising Purposes for Pianos.) Steger & Sons Piano Manufacturing Company. No. 5,652; June 21; v. 287; p. 592.
- "The Natural Way." (For Palmolive Soap.) The Palmolive Company. No. 5,439; Jan. 11; v. 282; p. 384.



*Alphabetical list of prints—Continued.*

- "The New Car of Life and Youth Haynes Special Speedster." (For Automobiles.) Haynes Automobile Company. No. 5,502; Feb. 8; v. 283; p. 362.
- "The New England Scene." (For Advertising Purposes for Jell-O, a Dessert Preparation.) The Genesee Pure Food Company. No. 5,888; Dec. 20.
- "The New 1921 Haynes Brougham." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 5,578; Mar. 29; v. 284; p. 957.
- "The New 1921 Haynes Tourister." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 5,542; Mar. 15; v. 284; p. 588.
- "The New Series Haynes Touring Car." (For Automobiles.) Haynes Automobile Company. No. 5,469; Jan. 25; v. 282; p. 740.
- "The New Series Haynes Tourister." (For Advertising Purposes for Automobiles.) Haynes Automobile Co. No. 5,609; May 31; v. 286; p. 1058.
- "The 1921 Neapolitan Jello." (For Advertising Purposes for Jell-O, a Dessert Preparation.) The Genesee Pure Food Company. No. 5,701; Aug. 23; v. 289; p. 798.
- "The 1921 Orange Jell-O." (For Advertising Purposes for Orange Jell-O, a Dessert Preparation.) The Genesee Pure Food Company. No. 5,662; July 5; v. 288; p. 203.
- "The 1921 Strawberry Jell-O." (For Advertising Purposes for Jell-O, a Dessert Preparation.) The Genesee Pure Food Company. No. 5,702; Aug. 23; v. 289; p. 798.
- "The Niss Plan." (For Advertising Furniture for Homes.) C. Niss & Sons, Inc. Nos. 5,868-9; Dec. 13.
- "The Nurse and Patient." (For Jello-O.) Genesee Pure Food Company. No. 5,500; Feb. 8; v. 283; p. 362.
- "The Onliwon—the Health-Guardian Good and Ready." (For Advertising Purposes for the Onliwon Paper Towel.) A. P. W. Paper Company. No. 5,573; Mar. 29; v. 284; p. 957.
- "The Passing of Our Old 'Bugaboos.'" (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,581; Mar. 29; v. 284; p. 957.
- "The Parrish Poster." (For Advertising Purposes for Jell-O, a Dessert.) The Genesee Pure Food Company. No. 5,885; Dec. 20.
- "The Picture He Carried Away." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 5,870; Dec. 13.
- "The Ranch Scene." (For Advertising Purposes for Jell-O, a Dessert Preparation.) The Genesee Pure Food Company. No. 5,886; Dec. 20.
- "The Richest Milk." (For Bread.) P. J. Stern. No. 5,449; Jan. 18; v. 282; p. 564.
- "The Secret of Beautiful Skin and Lustrous Hair." (For Advertising Kirk's "Jap Rose" Soap.) James S. Kirk & Co. No. 5,528; Mar. 22; v. 284; p. 755.
- "The Secret of Charm Never Changes." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 5,817; Oct. 25.
- "The Sentry-Uniform Hair Bow Fasteners." (For Advertising Purposes for Hair-Bow Fasteners.) J. Goldsmith, Jr. No. 5,607; May 31; v. 286; p. 1058.
- "The Southern Scene." (For Advertising Purposes for Jell-O.) The Genesee Pure Food Company. No. 5,857; Dec. 13.
- "The Symbol of Fairy Purity." (For Advertising Purposes for Fairy Soap for Toilet and Bath.) N. K. Fairbank Company. No. 5,733; Sept. 6; v. 290; p. 226.
- "The Winning Cup." (For Advertising Purposes for Coffee.) Hills Bros. No. 5,864; Dec. 13.
- "The Wonder Soap." (For Advertising Kirk's Original Cocoa Hardwater Castile Soap.) James S. Kirk & Company. No. 5,758; Sept. 13; v. 290; p. 432.
- "The Zero Hour." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,646; June 21; v. 287; p. 592.
- "There are No Substitutes for Dairy Products and Healthy Children." (For Advertising Purposes for Dairy Products.) National Dairy Council. No. 5,706; Aug. 23; v. 289; p. 798.
- "They Never Tire of Corn Flakes, When you give them—Kellogg's." (For Advertising Purposes for Kellogg's Toasted Corn Flakes.) Kellogg Toasted Corn Flake Company. No. 5,890; Dec. 20.
- "Thirsty Fibre." (For Advertising Purposes for Paper Towels and Paper Napkins.) Scott Paper Company. No. 5,898; Dec. 20.
- "Thoroughbreds." (For Advertising Purposes for Coffee.) Hills Bros. No. 5,863; Dec. 13.
- "Tiger-Foot Tires." (For Advertising Purposes for Tires.) The Standard Tire Co. No. 5,710; Aug. 23; v. 289; p. 798.
- "Time Disperses Our Old Illusions." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,580; Mar. 29; v. 284; p. 957.
- "To Make Hens Weigh, Lay and Pay Use Wirthmore Poultry Feeds." (For Poultry Feeds.) St. Albans Grain Company. No. 5,448; Jan. 18; v. 282; p. 564.
- "Tom" Masson holding an Omar." (For Advertising Purposes for Cigarettes.) The American Tobacco Company. No. 5,879; Dec. 20.
- "Truth in Advertising." (For Advertising Purposes for Automobiles.) The Haynes Automobile Company. No. 5,610; May 31; v. 286; p. 1058.
- "290 Eggs in One Year." (For Advertising Purposes for Poultry and Eggs.) O. F. Mettendorff. No. 5,827; Nov. 1.
- "Uncle Tom's Cabin." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 5,697; Aug. 23; v. 289; p. 798.
- "Unexcelled Window Shades." (For Advertising Purposes for Window-Shades.) The Weiss & Klau Company. No. 5,823; Oct. 25.
- "United Fuel & Supply Co. Building Supplies By Truck Train or Boat." (For Advertising Purposes for Building Supplies.) United Fuel Supply Company. No. 5,821; Oct. 25.
- "United Fuel & Supply Co. Building Supplies." (For Advertising Purposes for Building Supplies.) United Fuel & Supply Company. No. 5,725; Aug. 30; v. 289; p. 1021.
- "V. G. Baking Co. Pretzels, Cones." (For Advertising Purposes for Pretzels and Cones.) V. G. Baking Company. No. 5,843; Nov. 22.
- "V-I-I-O Voice Gum." (For Advertising Purposes for Voice-Gum.) G. T. Howard. No. 5,555; Mar. 22; v. 284; p. 755.
- "V-I-I-O' Voice Tablet." (For Voice-Tablets.) G. T. Howard. No. 5,475; Jan. 25; v. 282; p. 740.
- "Vanderbilt's Bird Song Restorer." (For a Bird Tonic and Song Restorer.) F. T. Horton Co. Inc. No. 5,810; Oct. 25.
- "Venus Copying Pencils." (For Advertising Purposes for Copying-Pencils.) American Lead Pencil Company. No. 5,848; Dec. 13.
- "Venus Everpointed Lead Pencils." (For Advertising Purposes for Lead-Pencils.) American Lead Pencil Company. No. 5,851; Dec. 13.
- "Venus Pencils C 37." (For Advertising Purposes for Lead-Pencils.) American Lead Pencil Company. No. 5,846; Dec. 13.
- "Venus Pencils C 38." (For Advertising Purposes for Lead-Pencils.) American Lead Pencil Company. No. 5,847; Dec. 13.
- "Venus Thin Leads." (For Advertising Purposes for Lead-Pencils.) American Lead Pencil Company. No. 5,849; Dec. 13.
- "Vic—The Master Blade. Try It in Your Razor." (For Advertising Purposes for Safety-Razor Blades.) Vic Manufacturing Co. No. 5,603; May 24; v. 286; p. 861.
- "Vicks Vaporub Over 17 Million Jars Used Yearly." (For Advertising Purposes for Salve.) Vick Chemical Co. No. 5,727; Aug. 30; v. 289; p. 1021.
- "Virginies—A Treat in Meat." (For Advertising Purposes for Canned Meat Patties.) Acme Packing Co. No. 5,693; Aug. 23; v. 289; p. 798.
- "Virginies Will Delight You." (For Advertising Purposes for Canned Meat-Patties.) Acme Packing Co. No. 5,654; July 5; v. 288; p. 203.
- "Vogue 'End-O-Spire.'" (For Advertising Purposes for a Toilet Preparation Which Prevents Perspiration.) American Druggists Syndicate. No. 5,591; May 3; v. 286; p. 198.
- "Wash Them Away." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 5,561; Mar. 22; v. 284; p. 755.
- "Wash Your Face Every Day." (For Palmolive Soap.) The Palmolive Company. No. 5,440; Jan. 11; v. 282; p. 384.
- "Washing for Beauty." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 5,544; Mar. 15; v. 284; p. 588.
- "Watkins Multisified." (For Coconut-Oil Shampoo.) The R. L. Watkins Co. No. 5,480; Jan. 25; v. 282; p. 740.
- "Watkins Multisified Coconut Oil Shampoo." (For Advertising Purposes for Hair-Shampoo.) R. L. Watkins Company. No. 5,569; Mar. 22; v. 284; p. 755.
- "Watkins Spark Plug." (For a Spark-Plug.) The J. R. Watkins Company. No. 5,479; Jan. 25; v. 282; p. 740.
- "We Shall Keep Faith." (For Advertising Purposes for Motors.) Hares Motors, Inc. No. 5,676; July 12; v. 288; p. 430.
- "We Shall Keep Faith." (For Advertising Purposes for Motor-Cars.) Hares Motors, Inc. No. 5,677; July 12; v. 288; p. 430.
- "Weitzel's Quality Lumber 1 to 1,000,000 Feet Delivered Quick 'Absolutely as we promise you.'" (For Lumber.) Weitzel Lumber Company. No. 5,481; Jan. 25; v. 282; p. 740.
- "Welsbach Gas Heater." (For Advertising Purposes for Gas-Heaters.) Welsbach Co. No. 5,801; Oct. 18.
- "Westinghouse Batteries." (For Advertising Purposes for Secondary Batteries.) Westinghouse Union Battery Company. No. 5,688; July 12; v. 288; p. 430.
- "Wet Paint Believe the Painter." (For Paint.) J. J. Hockenjos Co. No. 5,445; Jan. 18; v. 282; p. 564.
- "What is Your Brain Worth?" (For Advertising Purposes for Accounting-Machines.) F. C. Pangborn. No. 5,650; June 21; v. 287; p. 592.
- "What the World Rests On." (For Advertising Purposes for Mattresses, Pillows, Bed-Springs.) J. Oslason. No. 5,600; May 24; v. 286; p. 861.



*Alphabetical list of prints—Continued.*

- "When Peace was Born." (For Advertising Purposes for a Clock.) D. Rooney. No. 5,540; Mar. 8; v. 284; p. 378.
- "When You Entertain." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,642; June 21; v. 287; p. 592.
- "When Your Collar Starts to Wilt." (For Advertising Purposes for Coffee.) Joint Coffee Trade Publicity Committee of the United States. No. 5,641; June 21; v. 287; p. 592.
- "Whole Wheat Nuggets." (For Advertising Purposes for a Wheat Breakfast Cereal.) Midland Cereal Products Co. Nos. 5,537-8; Mar. 8; v. 284; p. 378.
- "Why Soap and Water Improves Your Skin." (For Palmolive Soap.) Palmolive Company. No. 5,520; Feb. 15; v. 283; p. 550.
- "Wilful Destruction." (For Advertising Purposes for Tire-Pressure Gages.) A. Schrader's Son, Incorporated. No. 5,876; Dec. 13.
- "William S. Hart holds an Omar." (For Advertising Purposes for Cigarettes.) The American Tobacco Company. No. 5,881; Dec. 20.
- "Winecup." (For Advertising Purposes for Soft Drinks.) Monarch Bitters Co. No. 5,705; Aug. 23; v. 289; p. 798.
- "Wink." (For Advertising Purposes for Ginger-Flavored Beverages.) Star Beverage Company. No. 5,691; Aug. 9; v. 289; p. 409.
- "Wink." (For Ginger Flavored Beverages.) Star Beverage Company. No. 5,478; Jan. 25; v. 282; p. 740.
- "X-Bazin." (For Advertising Purposes for Depilatory Powders.) Hall & Ruckel. No. 5,577; Mar. 29; v. 284; p. 957.
- "Yelostone Brand Potatoes." (For Potatoes.) North American Fruit Exchange. No. 5,476; Jan. 25; v. 282; p. 740.
- "Yes, Sir, you'll say a pipe packed with P. A. has 'em all backed clear off the map!" (For Advertising Purposes for Smoking Tobacco.) R. J. Reynolds Tobacco Company. No. 5,893; Dec. 20.
- "You bet you'll enjoy a jimmy pipe—if it's packed with Prince Albert!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,750; Sept. 6; v. 290; p. 226.
- "You can take this smoketalk at just 100%!" (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,507; Feb. 8; v. 283; p. 362.
- "You Can't Mistake the Flavor." (For Peanut-Butter.) Beech-Nut Packing Co. No. 5,657; July 5; v. 288; p. 203.
- "You Certainly Put Joy in Your Language When You Call for Prince Albert." (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,629; June 14; v. 287; p. 404.
- "You ought to know what P. A. and a jimmy pipe can do for you." (For Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,493; Feb. 1; v. 283; p. 180.
- "Your Favorite Tire." (For Advertising Purposes for Tires.) Amalgamated Tire Stores Corporation. No. 5,596; May 24; v. 286; p. 861.

## DISCLAIMERS.

- Anti-skid chains to vehicle-wheels. Means for securing. W. H. Krug. No. 1,330,876; date of patent Feb. 7, 1920; disclaimer filed May 16, 1921; v. 286; p. 646.
- Brake-facing. C. J. Coleman. No. 993,031; date of patent May 23, 1911; disclaimer filed Nov. 5, 1921.
- Camera, Photographic-film. J. Cernohouz. No. 1,293,033; date of patent Feb. 4, 1919; disclaimer filed June 6, 1921; v. 287; p. 1.
- Earth-boring machine. W. A. Meyers. No. 1,315,565; date of patent Sept. 9, 1919; disclaimer filed Jan. 6, 1921; v. 283; p. 555.
- Electric storage battery. M. Lechner. No. 1,359,259; date of patent Nov. 16, 1920; disclaimer filed July 25, 1921; v. 289; p. 192.
- Electric-switch construction. C. D. Platt. No. 1,260,708; date of patent Mar. 26, 1918; disclaimer filed Apr. 11, 1921; v. 285; p. 575.
- Fastener-setting machine. S. L. Gookin. No. 1,371,364; date of patent Mar. 15, 1921; disclaimer filed Aug. 20, 1921; v. 289; p. 801.
- Fastener-setting machine. S. L. Gookin. No. 1,371,364; date of patent Mar. 15, 1921; disclaimer filed Nov. 21, 1921.
- Food product. J. J. Burchenal. No. 1,135,351; date of patent Apr. 13, 1915; disclaimer filed Jan. 29, 1921; v. 283; p. 555.
- Lamp. W. H. Wood. No. 1,235,275; date of patent July 31, 1917; disclaimer filed Apr. 30, 1921; v. 286; p. 205.
- Liquid-elevating apparatus. F. V. Willis. No. 1,345,725; date of patent July 6, 1920; disclaimer filed Apr. 25, 1921; v. 286; p. 1.
- Receptacle-closure. J. Alberti. No. 1,234,711; date of patent July 31, 1917; disclaimer filed Mar. 9, 1921; v. 284; p. 760.
- Spool. W. A. Prentiss. No. 1,316,972; date of patent Sept. 23, 1919; disclaimer filed Feb. 9, 1921; v. 283; p. 555.
- Telephone-exchange automatic switching system. E. A. Mellinger. No. 1,343,462; date of patent June 15, 1920; disclaimer filed Mar. 16, 1921; v. 284; p. 760.
- Telephone-exchange system. T. G. Martin. No. 1,316,101; date of patent Sept. 16, 1919; disclaimer filed Oct. 31, 1921.
- Telephone switching apparatus, Automatic. T. G. Martin. (Reissue.) No. 14,665; date of patent June 10, 1919; disclaimer filed Feb. 28, 1921; v. 284; p. 760.
- Telephone system. W. L. Campbell. No. 1,267,743; date of patent May 28, 1918; disclaimer filed Apr. 18, 1921; v. 286; p. 1.
- Tile, Roofing-. P. M. McBean. No. 1,289,492; date of patent Dec. 31, 1918; disclaimer filed Mar. 9, 1921; v. 284; p. 760.
- Universal joint. H. J. Edwards. No. 1,316,563; date of patent Sept. 23, 1919; disclaimer filed Feb. 16, 1921; v. 284; p. 1.
- Winding mechanism. R. McC. Johnstone. No. 1,355,106; date of patent Oct. 5, 1920; disclaimer filed Apr. 12, 1921; v. 285; p. 575.























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